



Test Report Number: BTF230328R00204

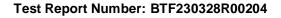


Appendix

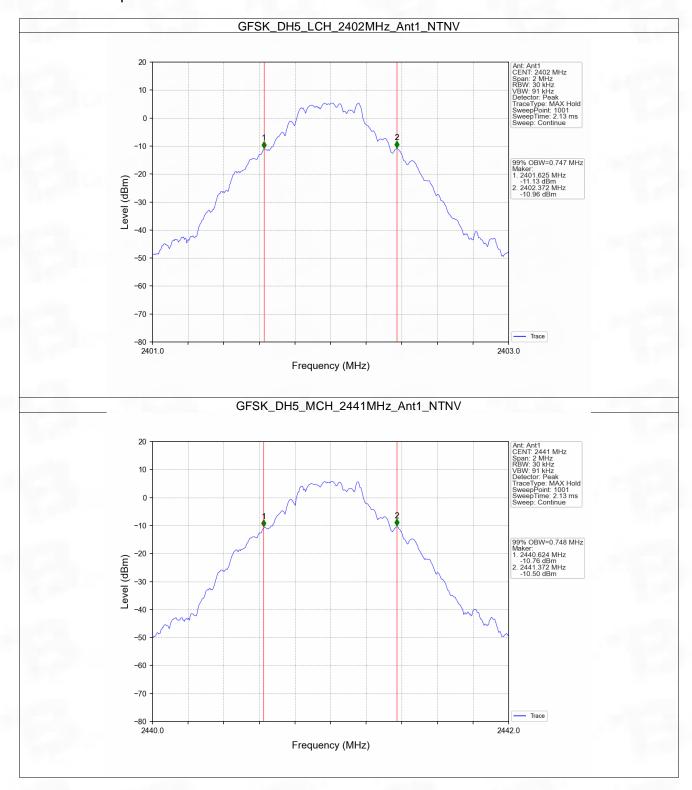
1. Bandwidth

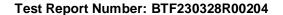
1.1 OBW

Mode	TX	Frequency Packet	ANT	99% Occupied Bandwidth (MHz)	Verdict	
	Type	(MHz)	Type	ANI	Result	verdict
GFSK	SISO	2402	DH5	1	0.747	Pass
		2441	DH5	1	0.748	Pass
		2480	DH5	1	0.748	Pass
	SISO	2402	2DH5	1	1.146	Pass
Pi/4DQPSK		2441	2DH5	1	1.144	Pass
		2480	2DH5	1	1.145	Pass
8DPSK	SISO	2402	3DH5	1	1.154	Pass
		2441	3DH5	1	1.154	Pass
		2480	3DH5	1	1.153	Pass

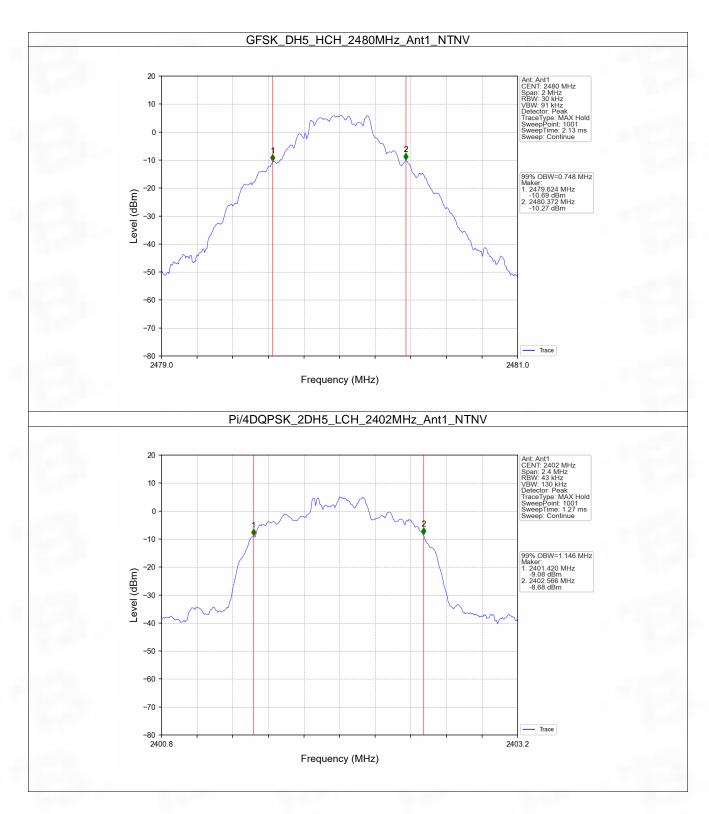


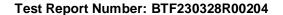




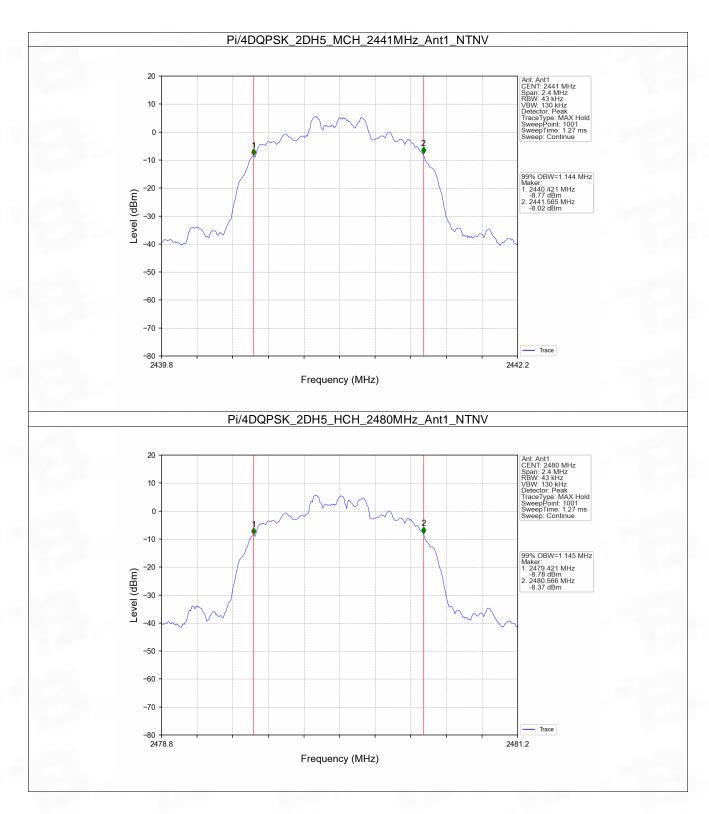


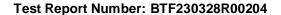




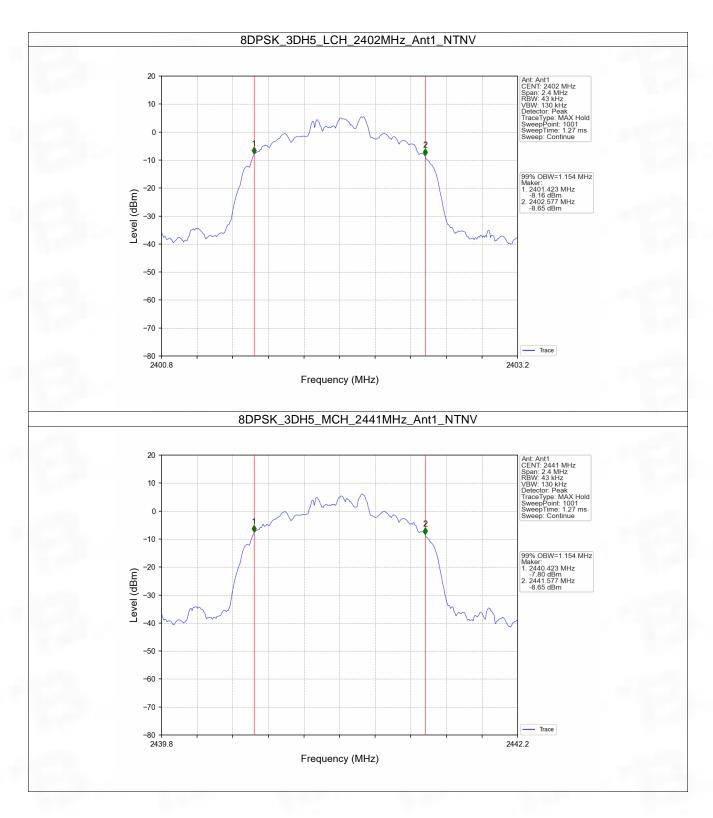


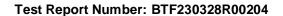




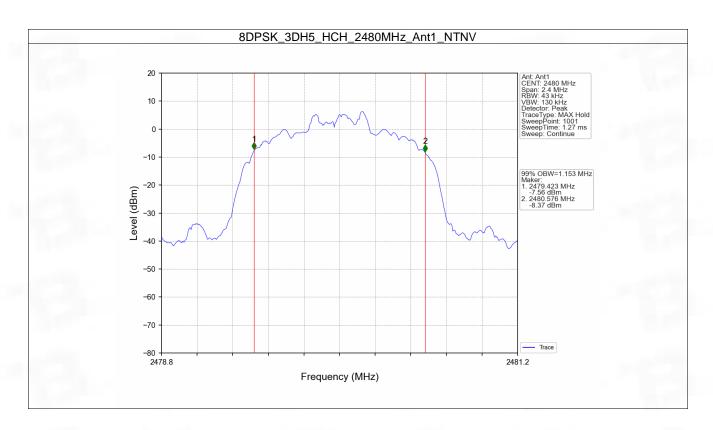


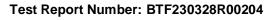








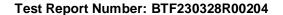




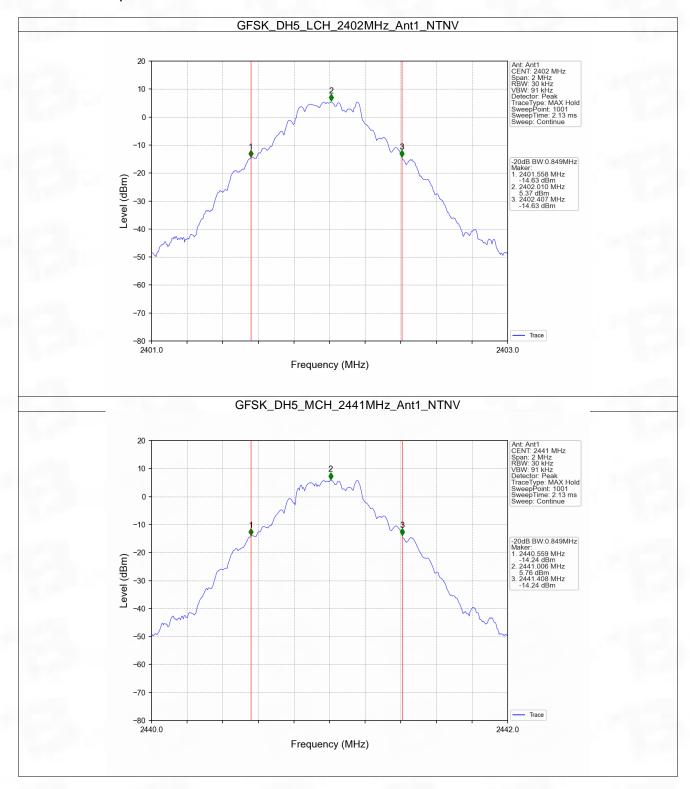


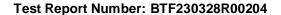
1.2 20dB BW

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	Type	ANI	Result	verdict
		2402	DH5	1	0.849	Pass
GFSK	SISO	2441	DH5	1	0.849	Pass
		2480	DH5	1	0.848	Pass
	SISO	2402	2DH5	1	1.283	Pass
Pi/4DQPSK		2441	2DH5	1	1.282	Pass
		2480	2DH5	1	1.282	Pass
	SISO	2402	3DH5	1	1.296	Pass
8DPSK		2441	3DH5	1	1.294	Pass
		2480	3DH5	1	1.293	Pass

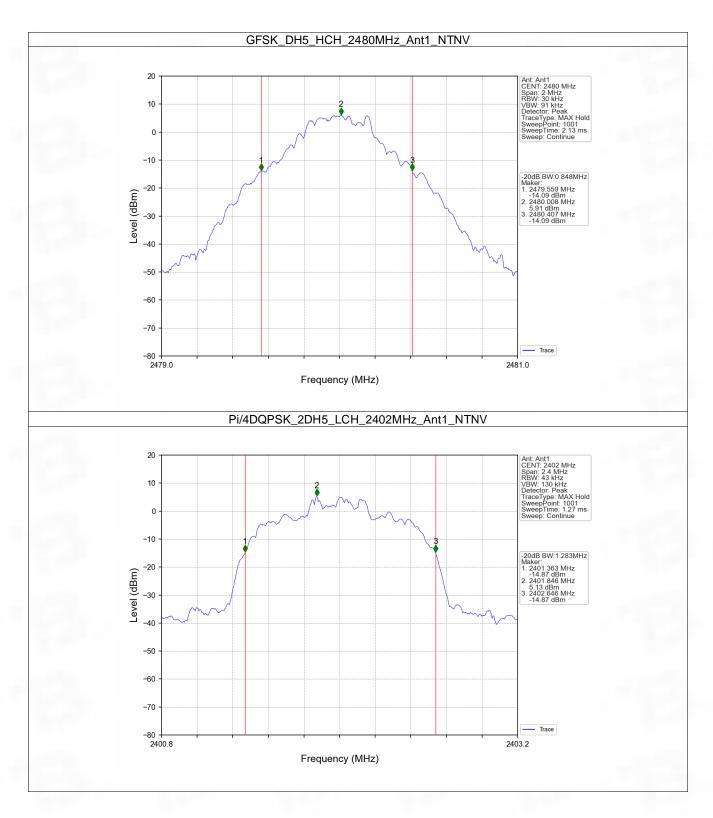


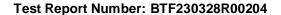




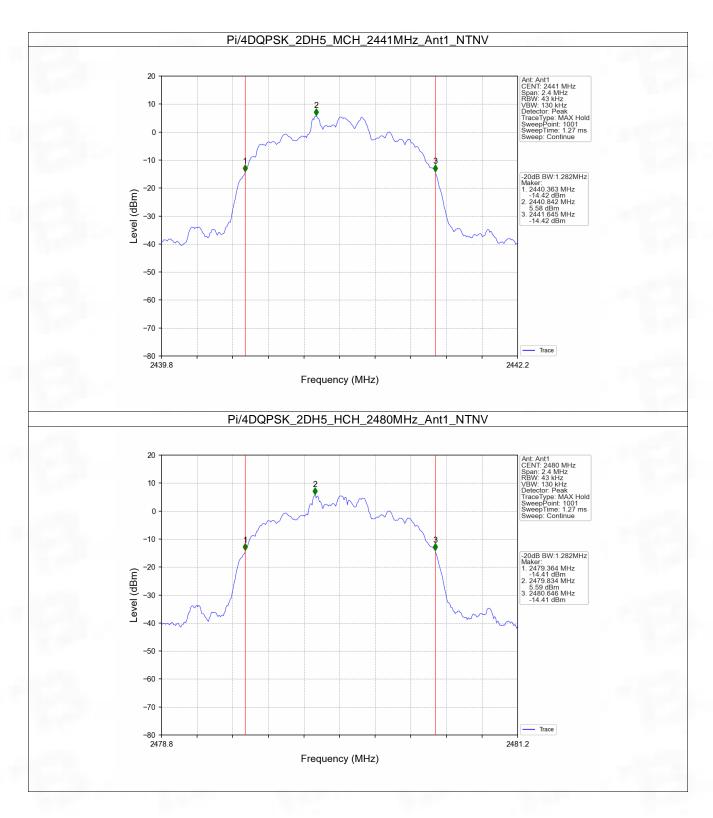


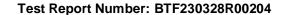




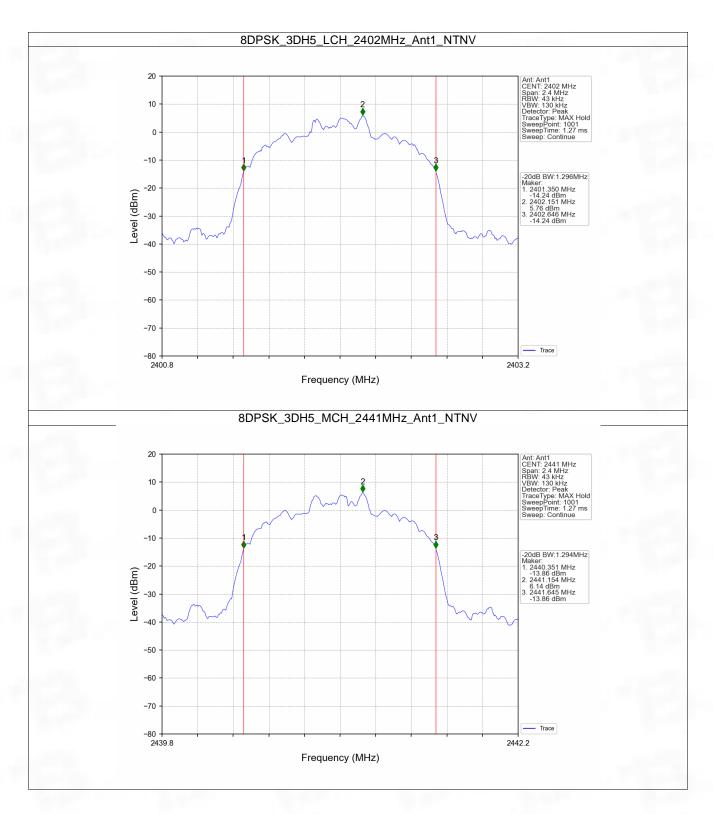


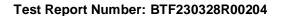




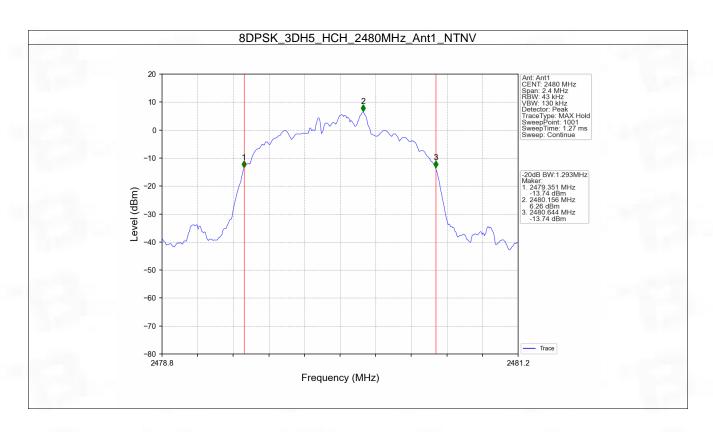


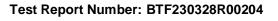










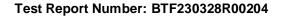




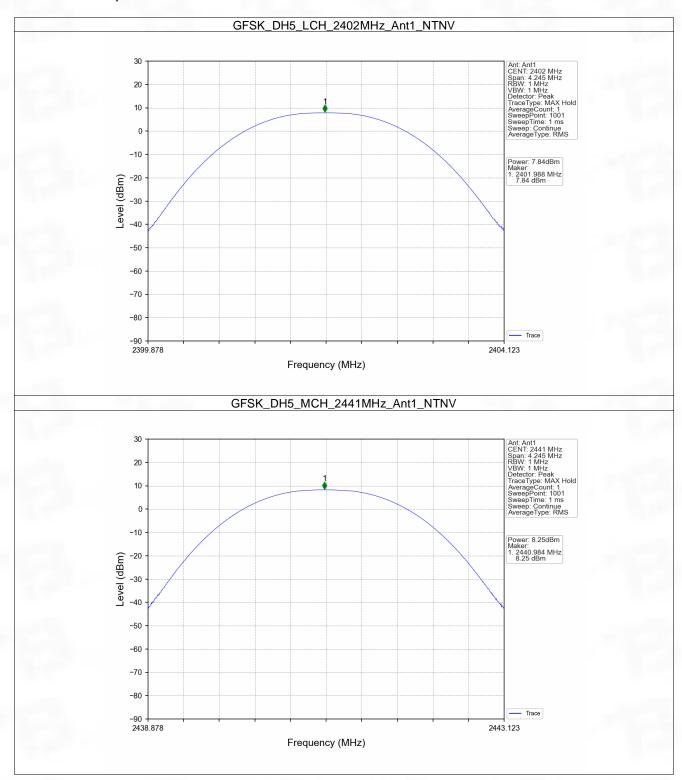
2. Maximum Conducted Output Power

2.1 Power

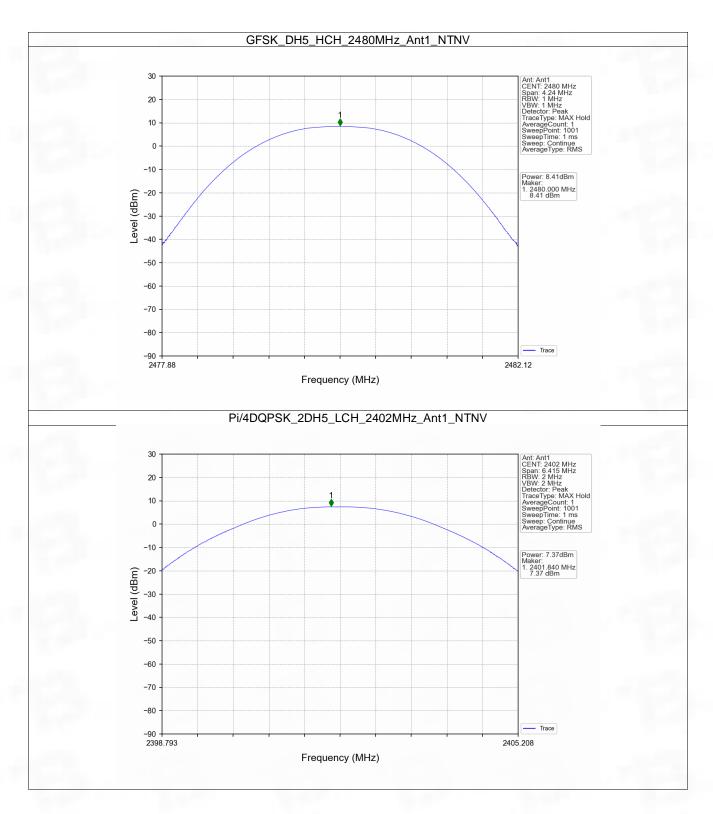
Mode	TX	Frequency	Packet	Maximum Peak Conduc	Verdict	
	Type	(MHz)	Type	ANT1	Limit	verdict
GFSK		2402	DH5	7.84	<=30	Pass
	SISO	2441	DH5	8.25	<=30	Pass
		2480	DH5	8.41	<=30	Pass
	SISO	2402	2DH5	7.37	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	7.75	<=20.97	Pass
		2480	2DH5	7.84	<=20.97	Pass
	SISO	2402	3DH5	7.41	<=20.97	Pass
8DPSK		2441	3DH5	7.78	<=20.97	Pass
		2480	3DH5	7.90	<=20.97	Pass
Note1: Antenn	a Gain: An	t1: -0.26dBi;				

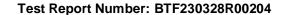




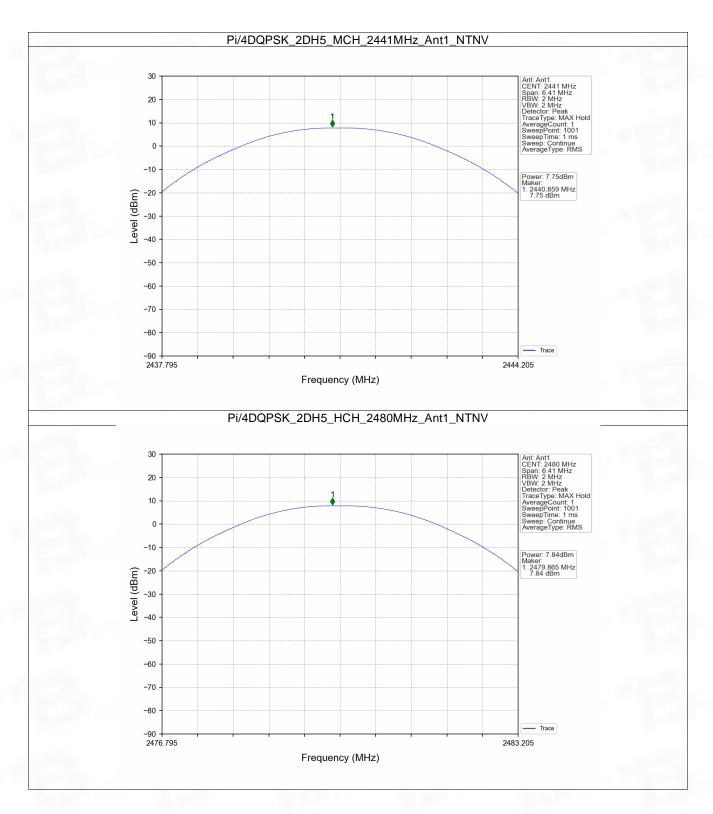




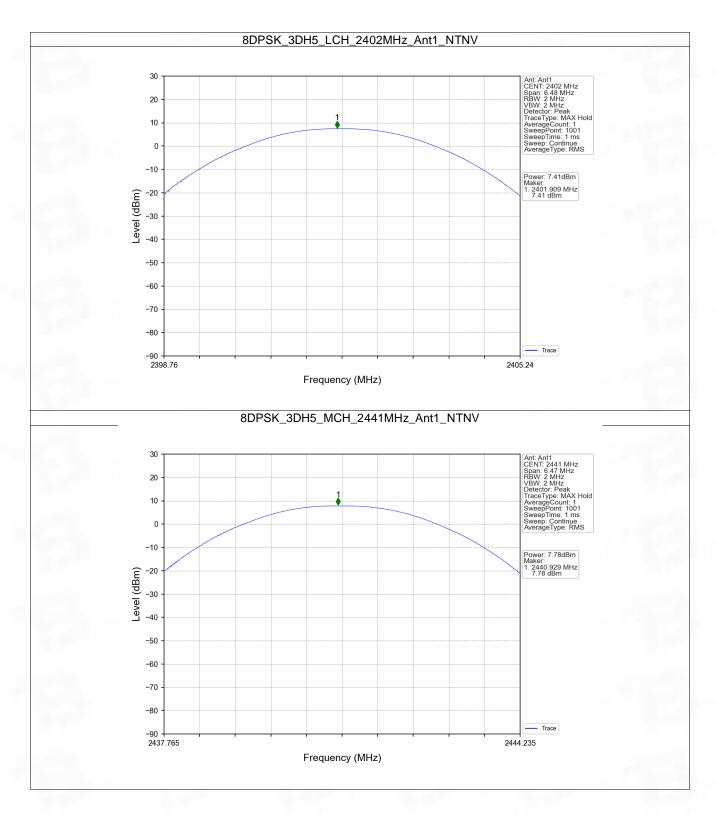


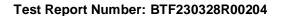




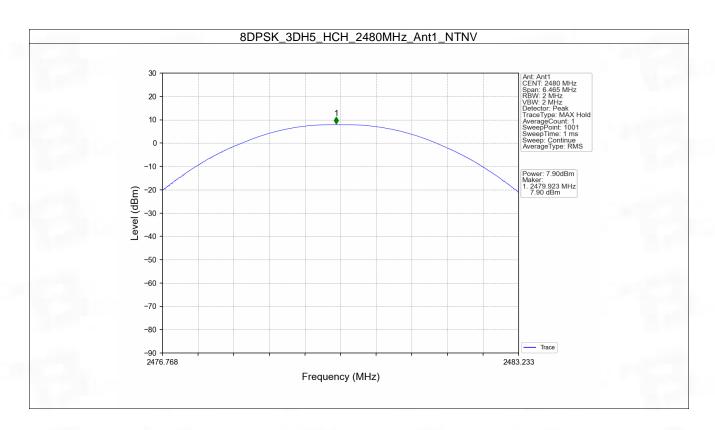


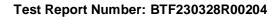










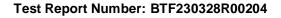




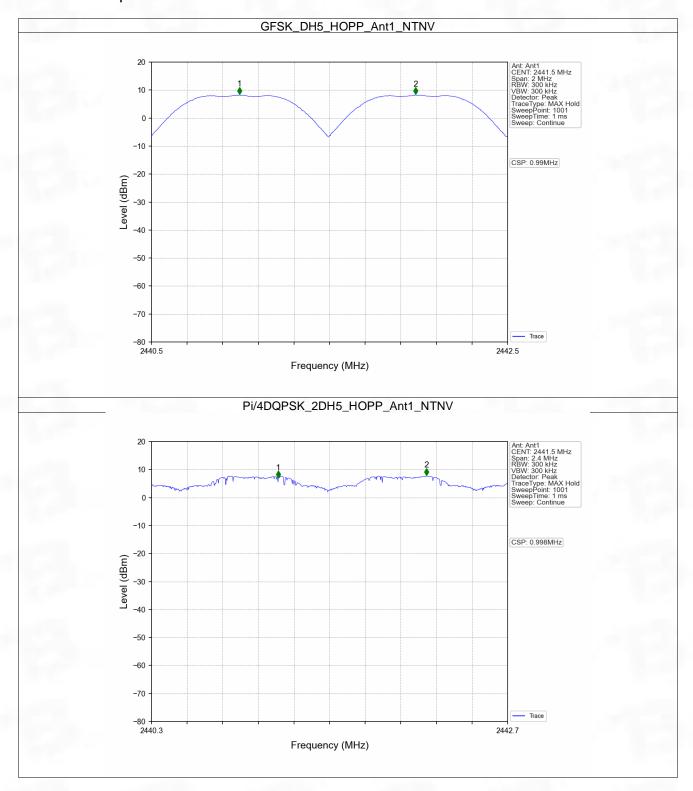
3. Carrier Frequency Separation

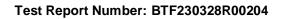
3.1 Ant1

Ant1									
Mode	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	\/ordiot		
	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)	Verdict		
GFSK	SISO	HOPP	DH5	0.990	0.849	>=0.849	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.283	>=0.855	Pass		
8DPSK	SISO	HOPP	3DH5	1.001	1.296	>=0.864	Pass		

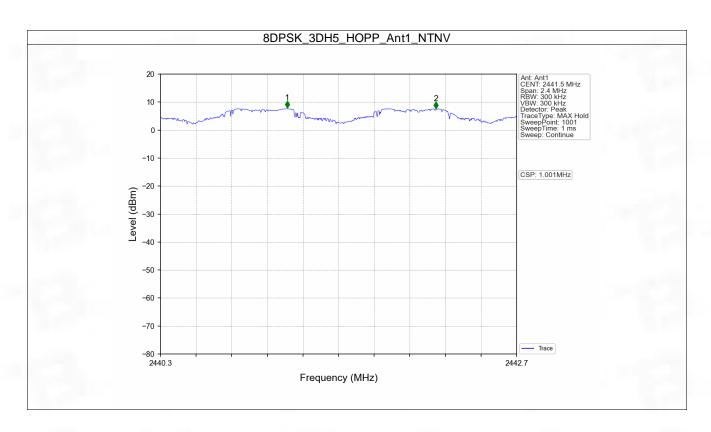












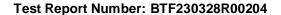
Test Report Number: BTF230328R00204



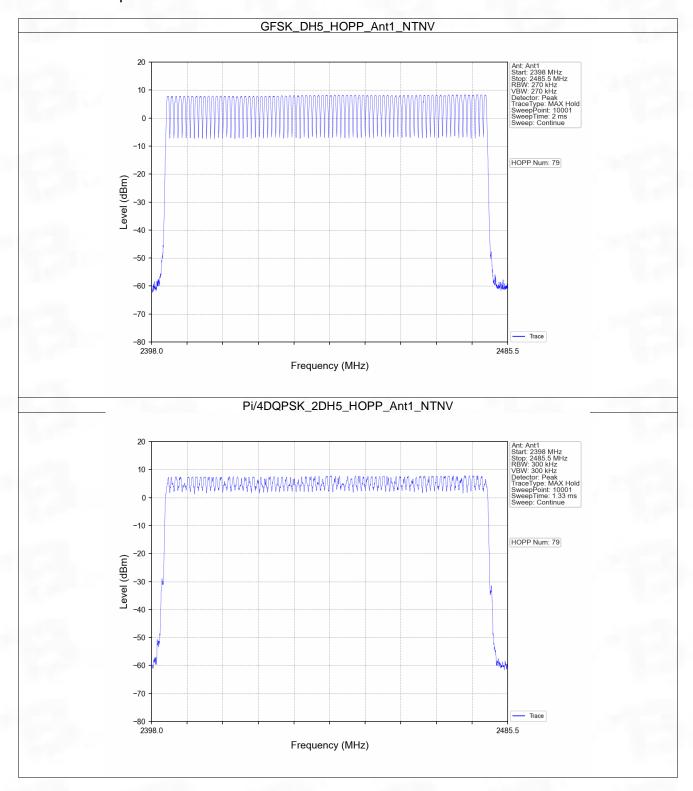
4. Number of Hopping Frequencies

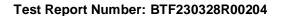
4.1 HoppNum

Mode	TX	Frequency	Packet	Num of Hoppin	ng Frequencies	Verdict	
	Type	(MHz)	Type	ANT1	Limit		
GFSK	SISO	HOPP	DH5	79	>=15	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass	
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass	

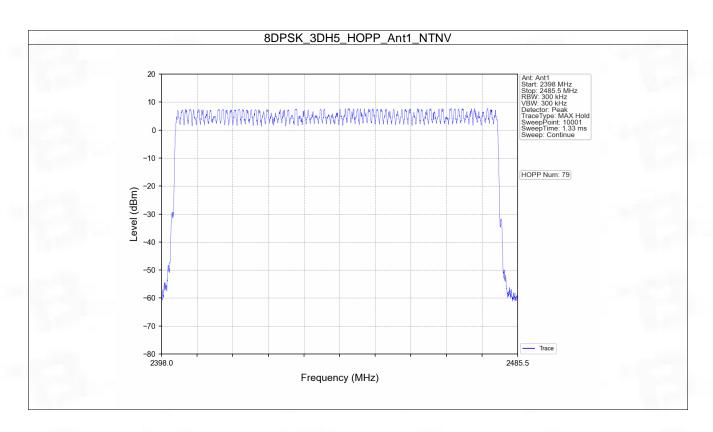














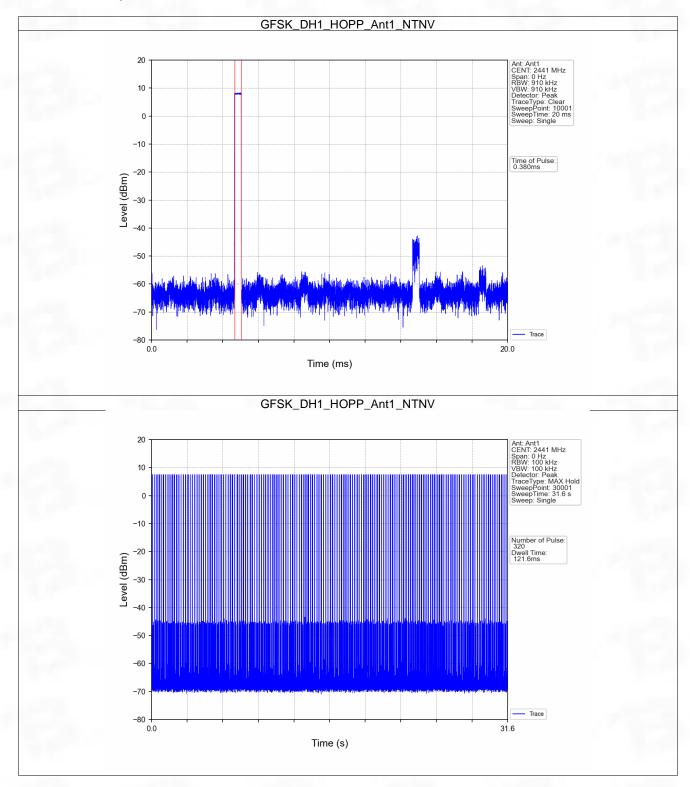


5. Time of Occupancy (Dwell Time)

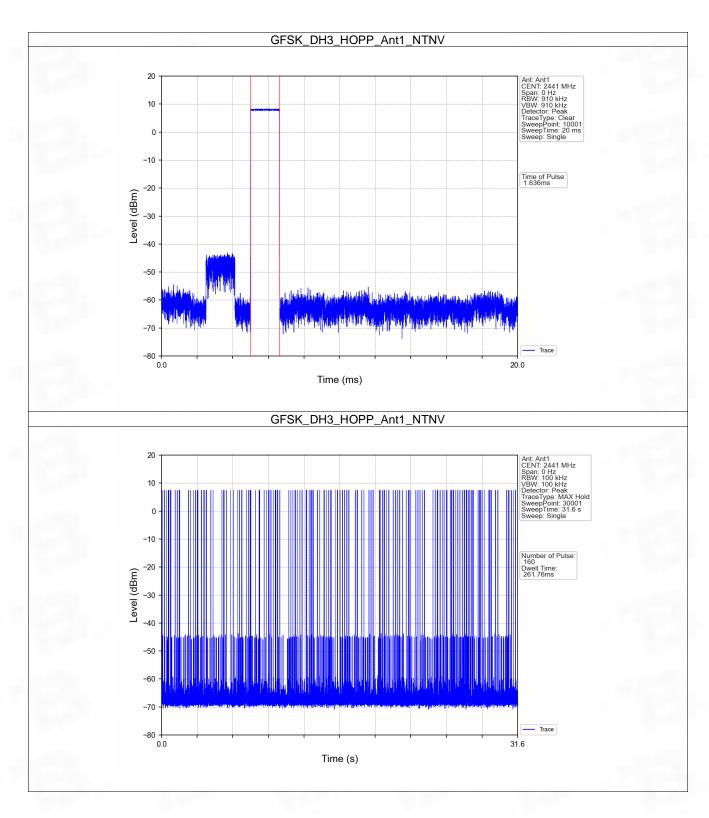
5.1 Ant1

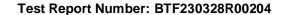
Ant1										
Mode	TX	TX Frequency	cy Packet Duration of		Observation	Num of Pulse in	Dwell	Limit	Verdict	
	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	Verdict	
GFSK SISC		НОРР	DH1	0.380	31.600	320	121.600	<=400	Pass	
	SISO		DH3	1.636	31.600	160	261.760	<=400	Pass	
			DH5	2.898	31.600	111	321.678	<=400	Pass	
	SISO	HOPP	2DH1	0.388	31.600	320	124.160	<=400	Pass	
Pi/4DQPSK			2DH3	1.638	31.600	163	266.994	<=400	Pass	
					2DH5	2.902	31.600	102	296.004	<=400
			3DH1	0.402	31.600	320	128.640	<=400	Pass	
8DPSK	SISO	HOPP	3DH3	1.652	31.600	161	265.972	<=400	Pass	
			3DH5	2.904	31.600	105	304.920	<=400	Pass	



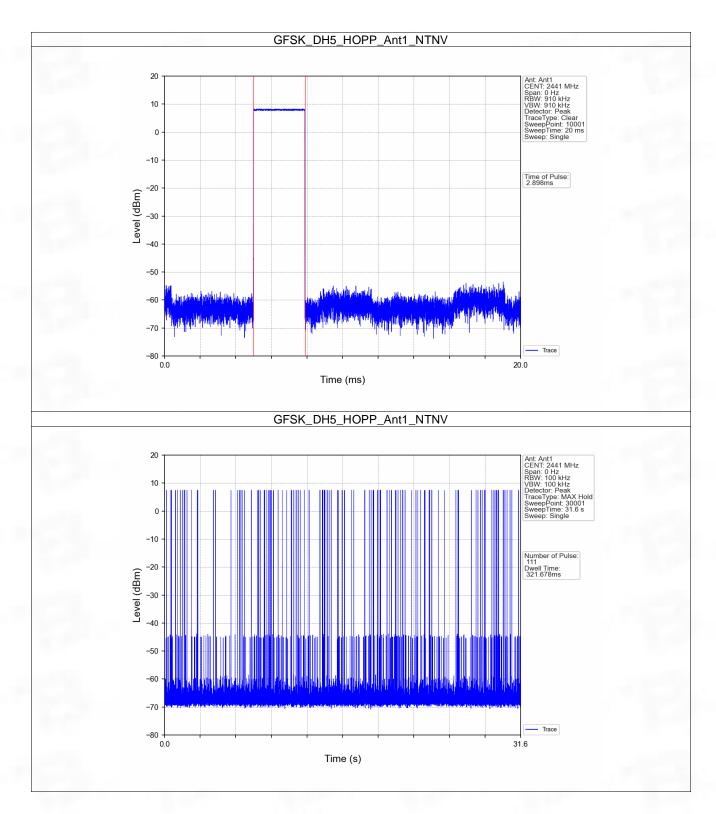


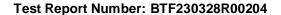




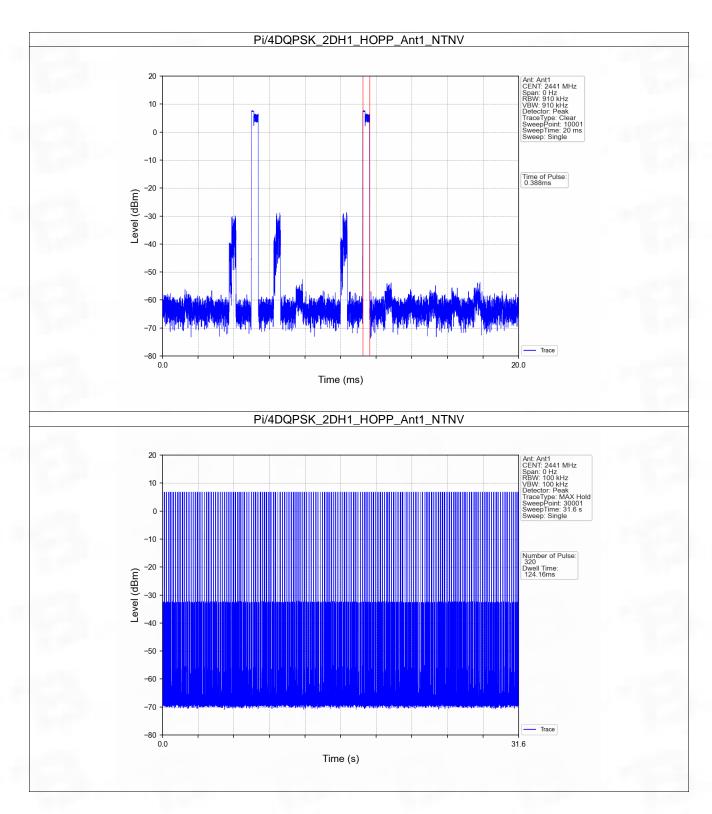


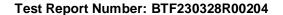




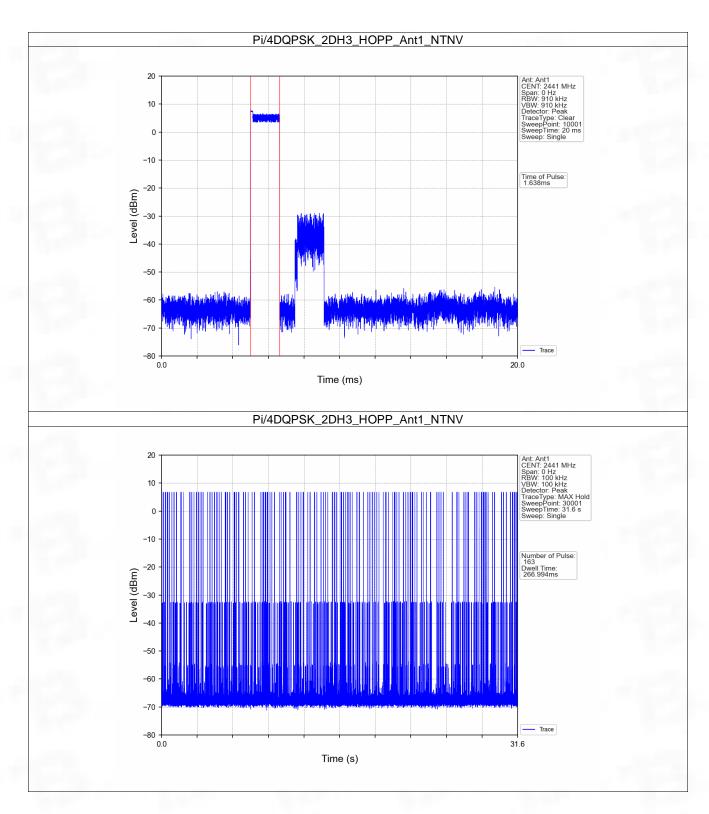


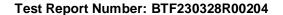




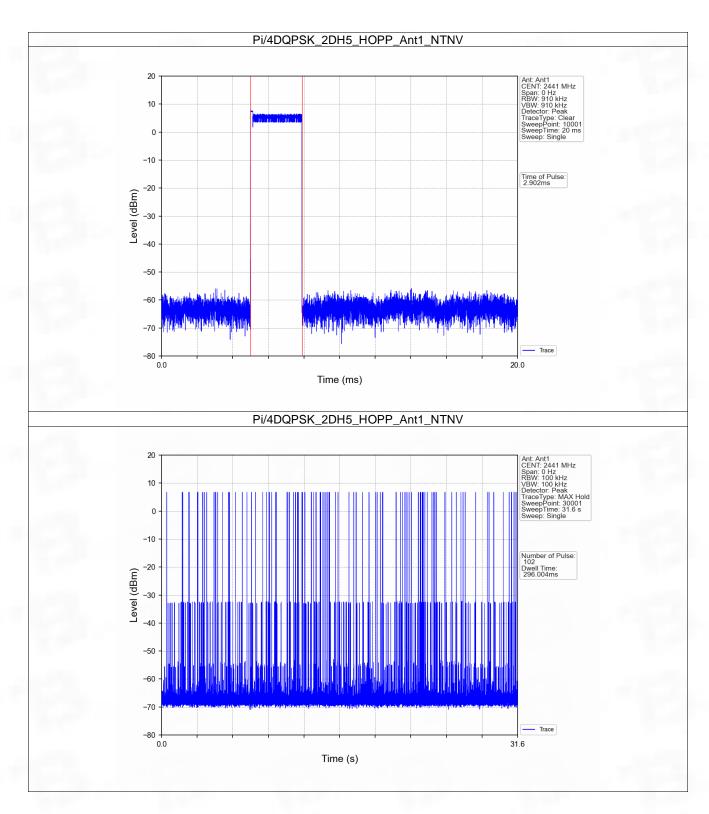


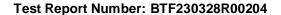




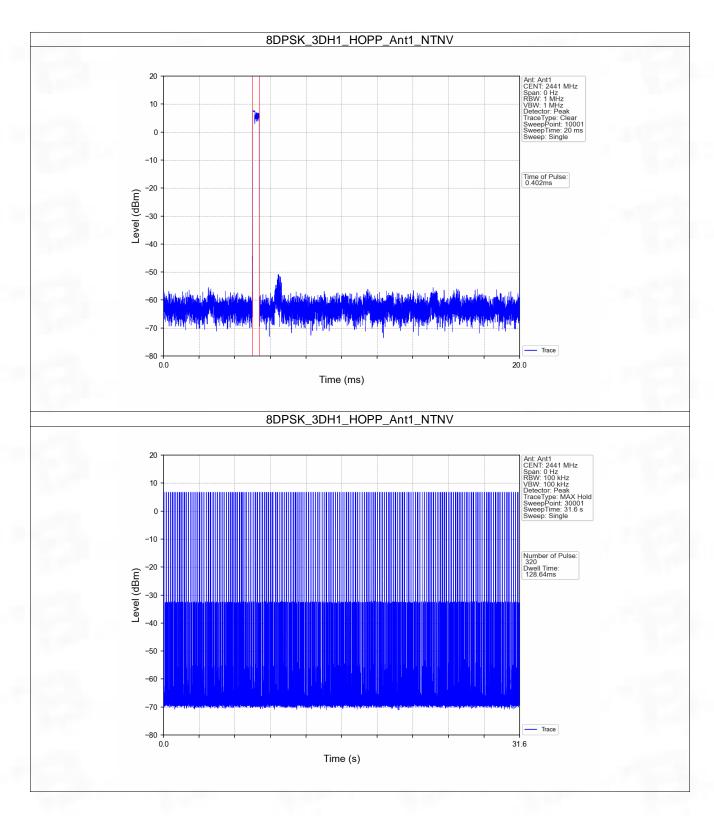


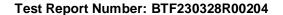




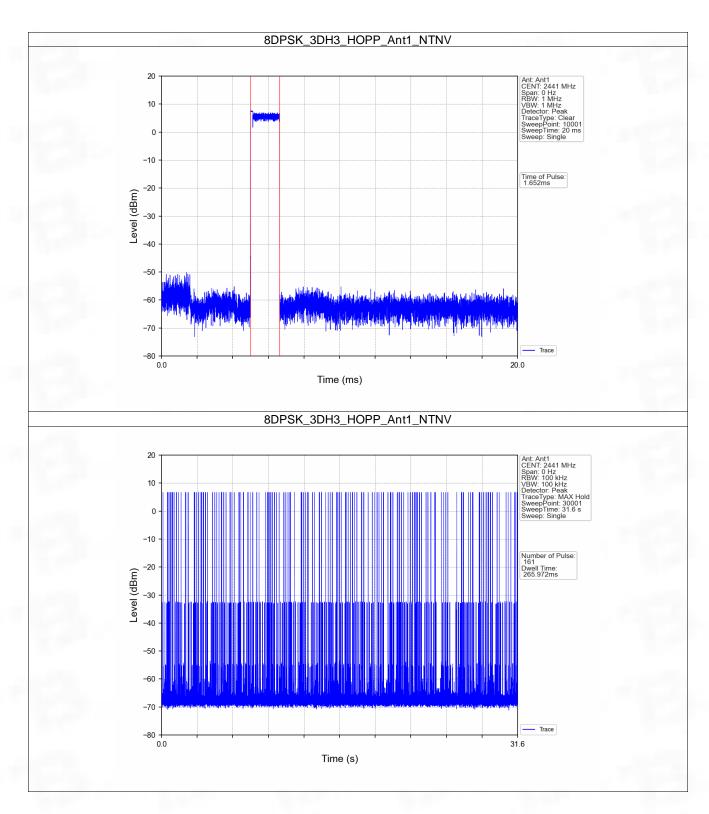


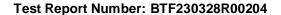




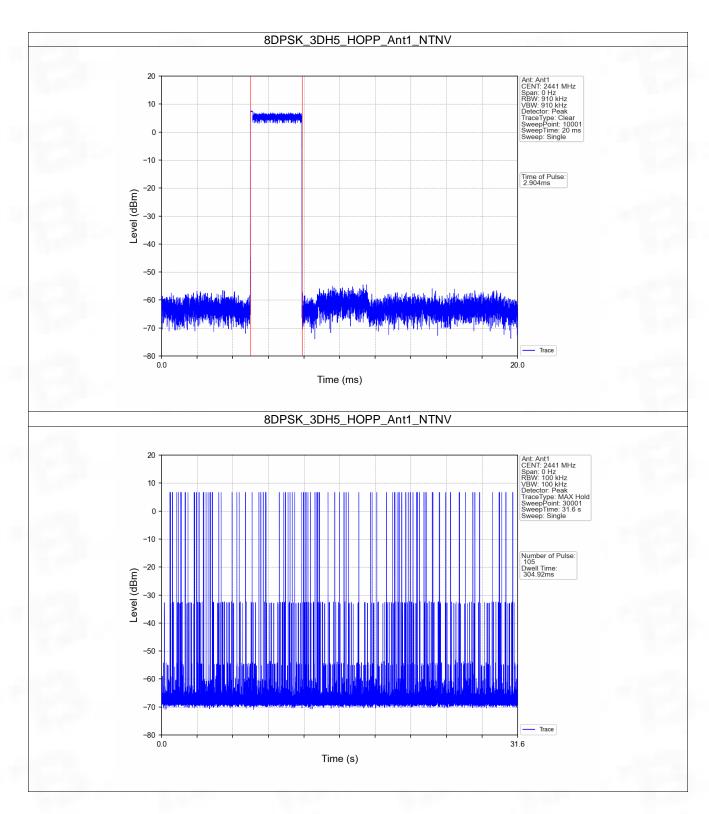
















6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

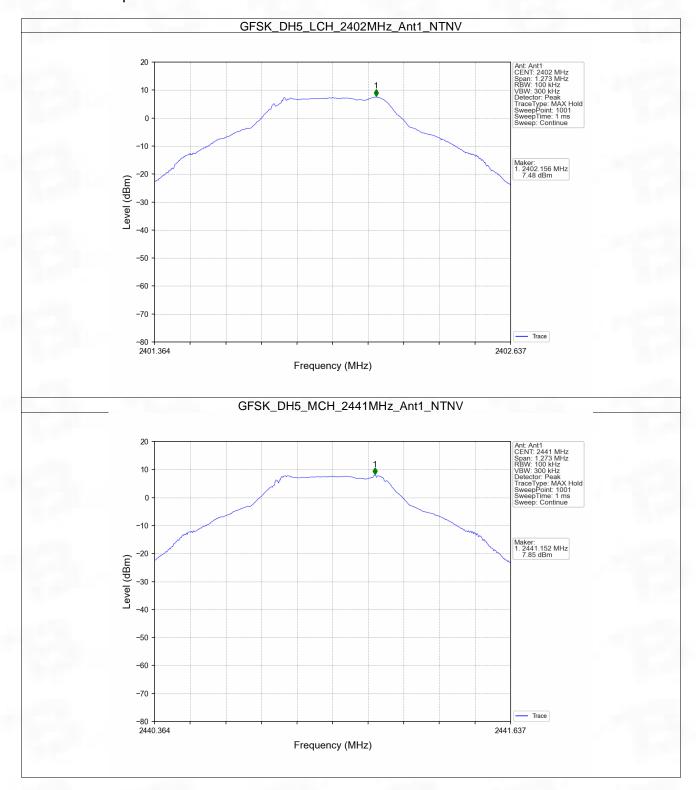
6.1.1 Test Result

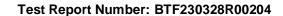
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	7.48
		2441	DH5	1	7.85
		2480	DH5	1	8.01
Pi/4DQPSK	SISO	2402	2DH5	1	6.97
		2441	2DH5	1	7.48
		2480	2DH5	1	7.57
8DPSK	SISO	2402	3DH5	1	7.17
		2441	3DH5	1	7.49
		2480	3DH5	1	7.61

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

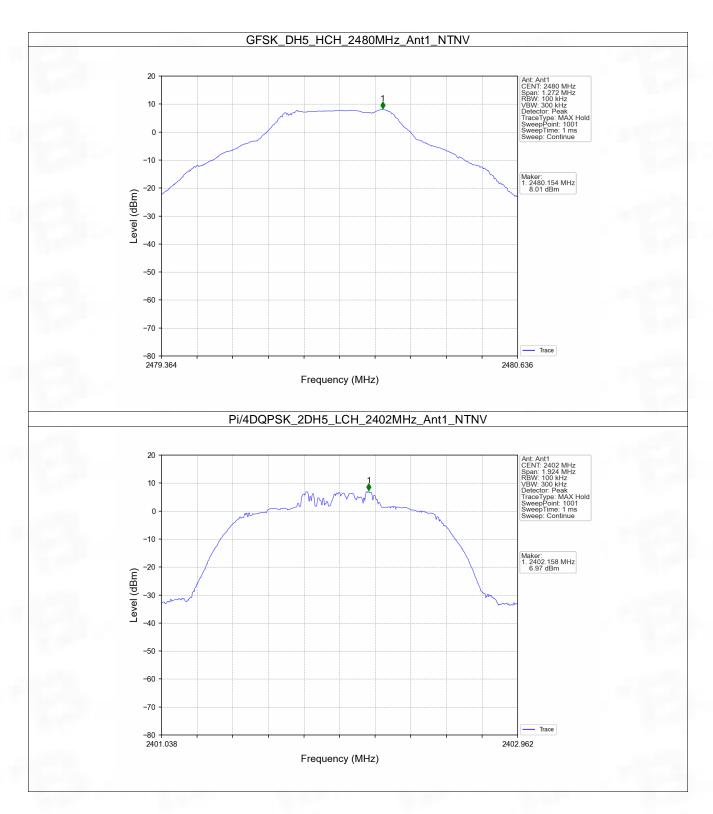


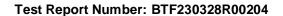
6.1.2 Test Graph



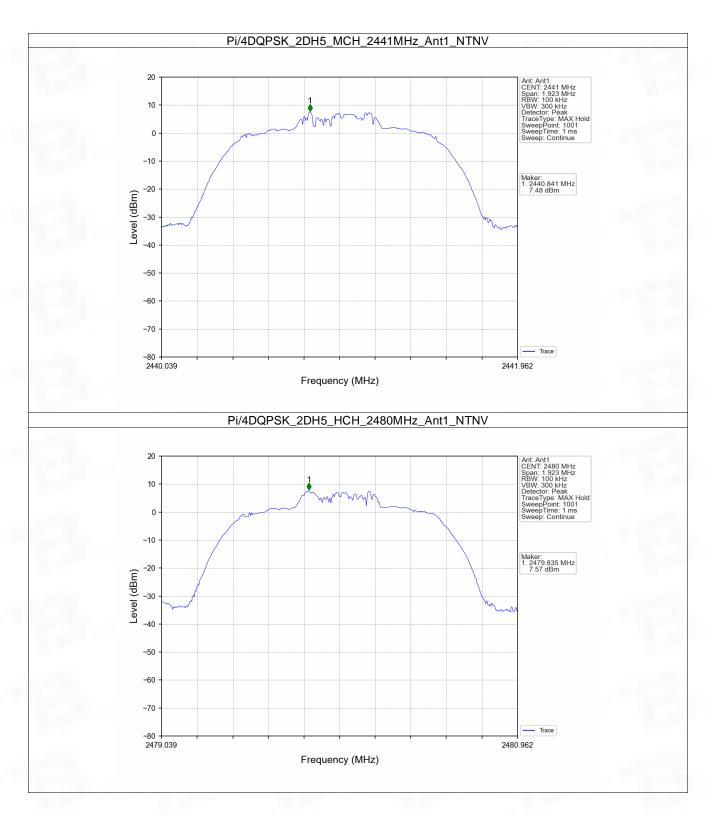


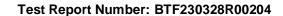




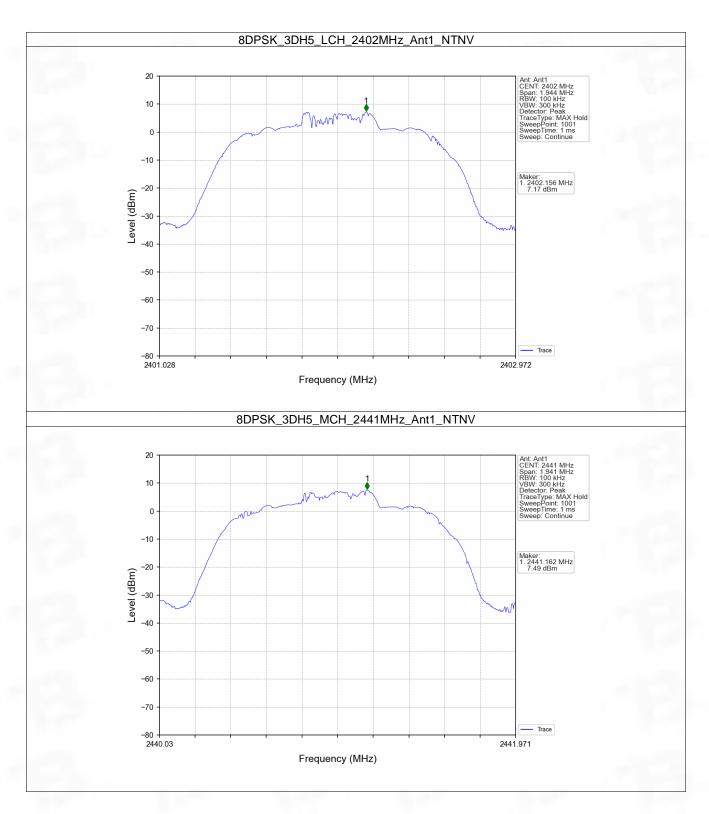


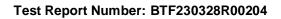




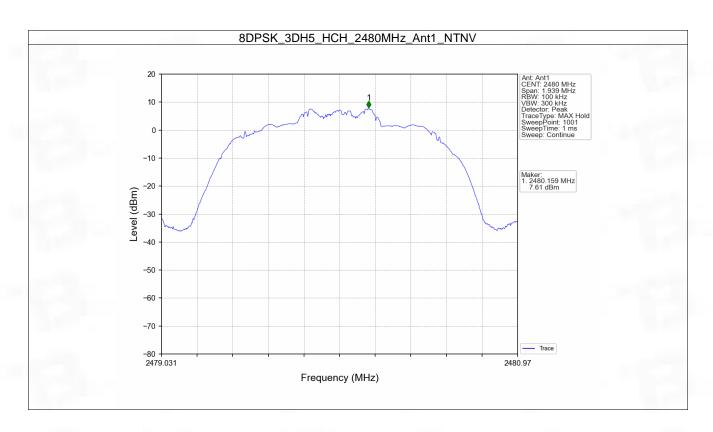


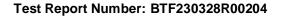














6.2 CSE

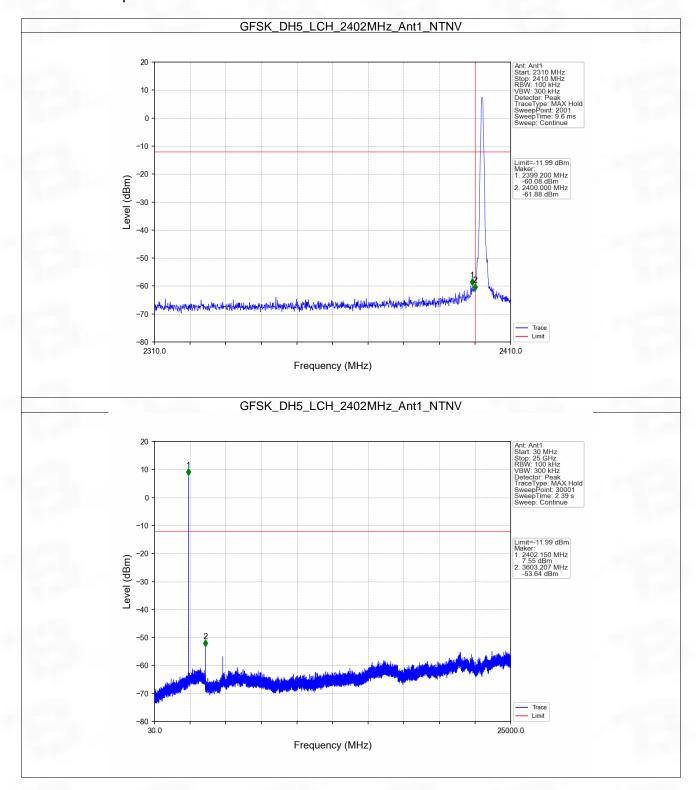
6.2.1 Test Result

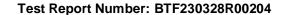
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK SIS		2402	DH5	1	8.01	-11.99	Pass
	CICO	2441	DH5	1	8.01	-11.99	Pass
	5150	2480	DH5	1	8.01	-11.99	Pass
		HOPP	DH5	1	8.01	-11.99	Pass
Pi/4DQPSK S		2402	2DH5	1	7.57	-12.43	Pass
	SISO	2441	2DH5	1	7.57	-12.43	Pass
		2480	2DH5	1	7.57	-12.43	Pass
		HOPP	2DH5	1	7.57	-12.43	Pass
8DPSK		2402	3DH5	1	7.61	-12.39	Pass
	SISO	2441	3DH5	1	7.61	-12.39	Pass
		2480	3DH5	1	7.61	-12.39	Pass
		HOPP	3DH5	1	7.61	-12.39	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

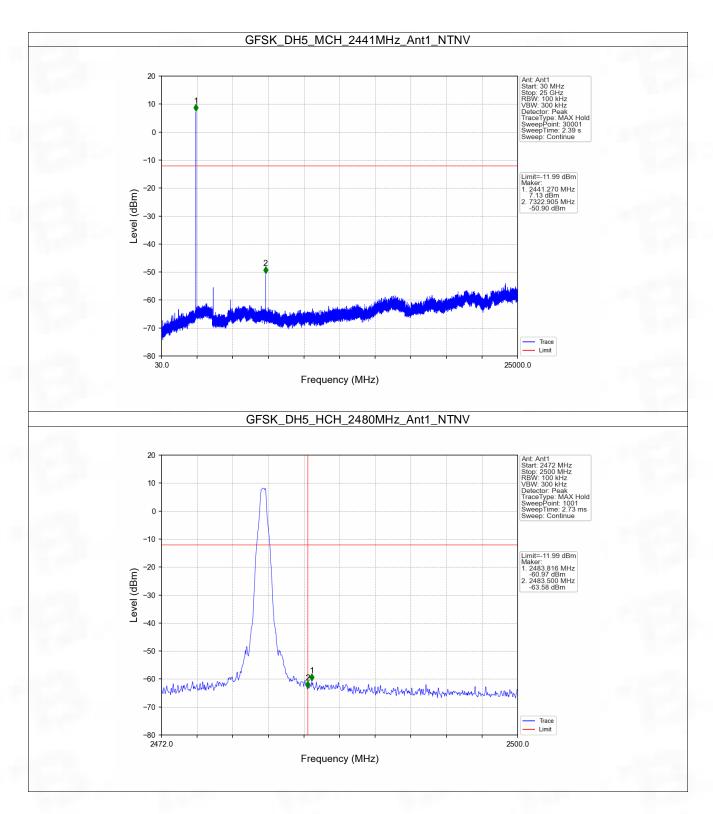


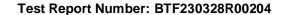
6.2.2 Test Graph



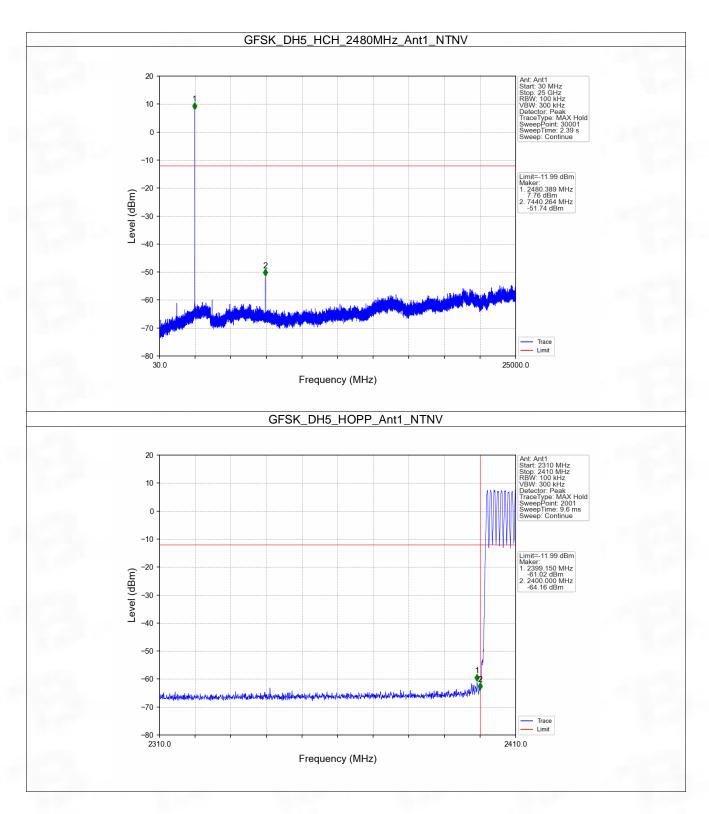


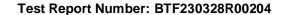




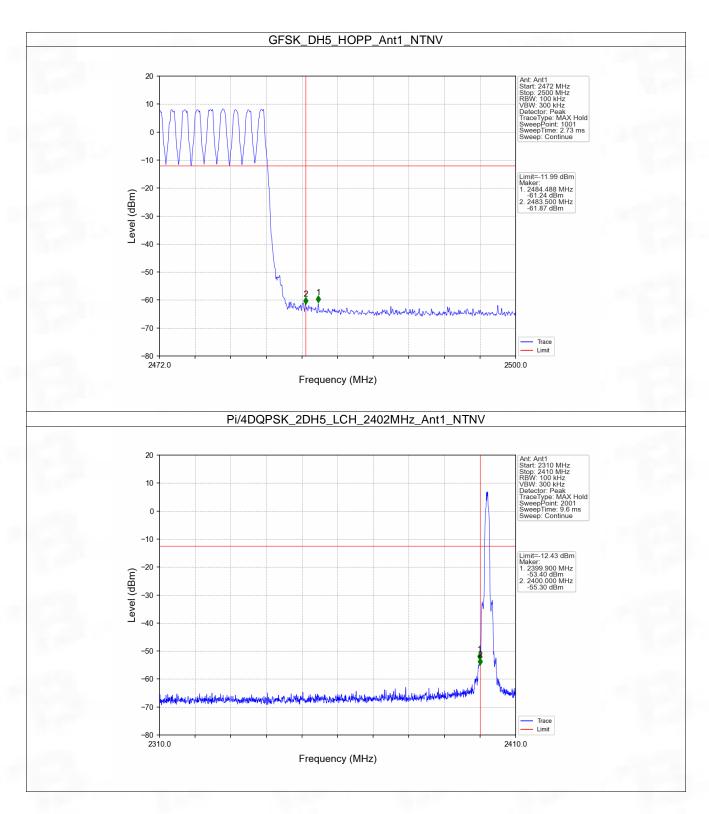


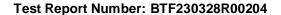




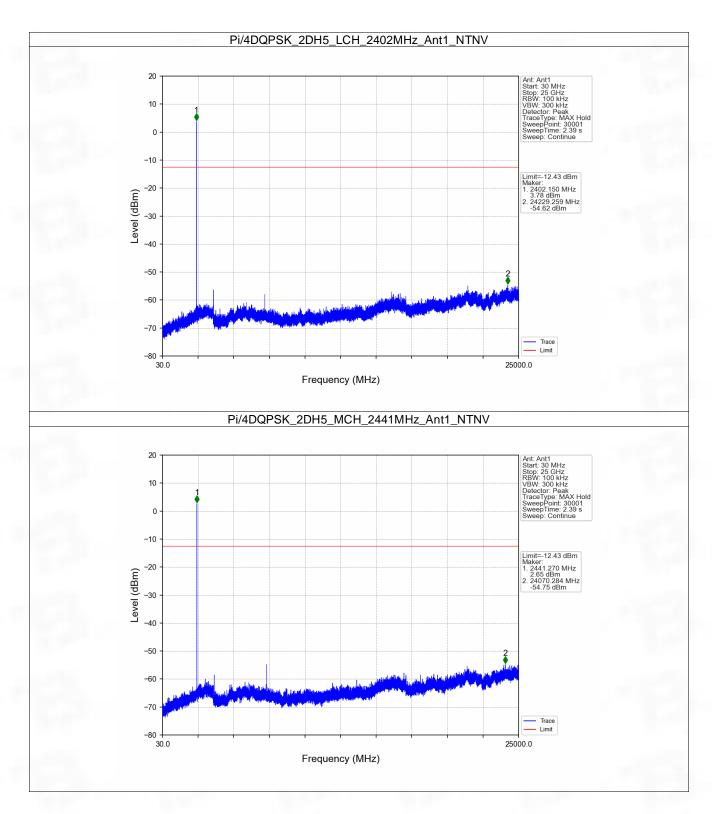


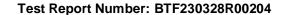




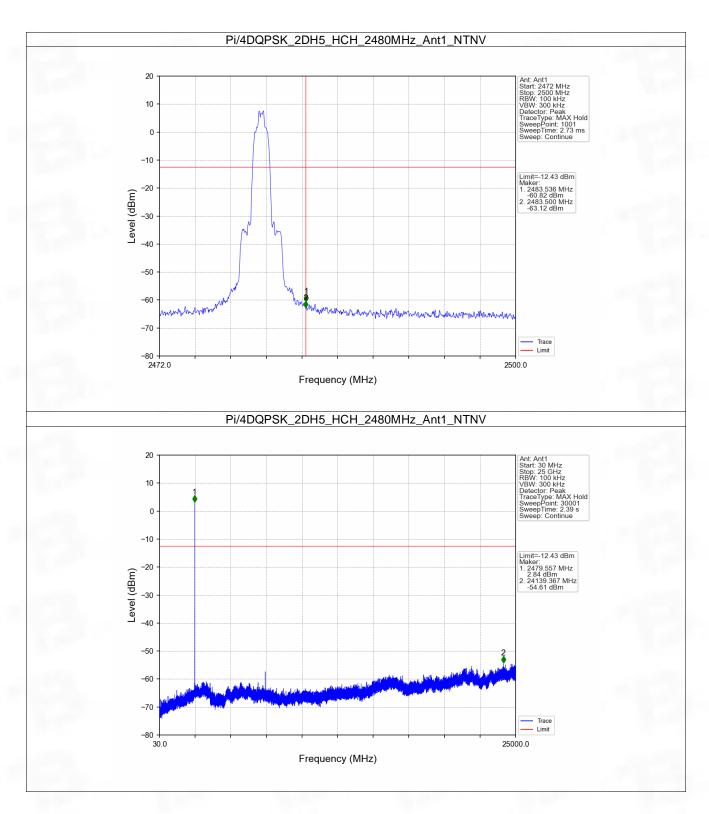


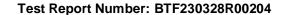




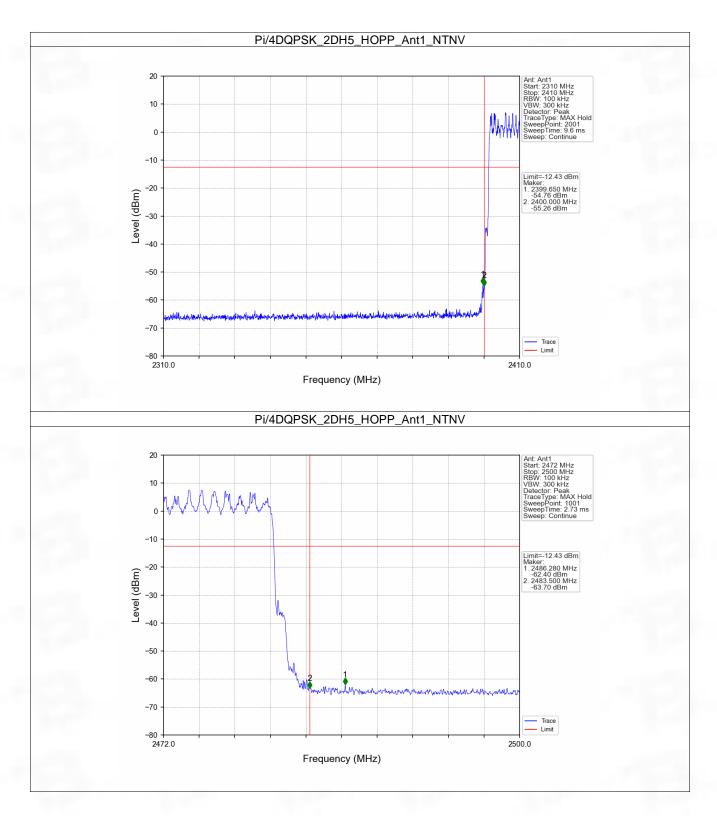


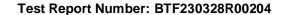




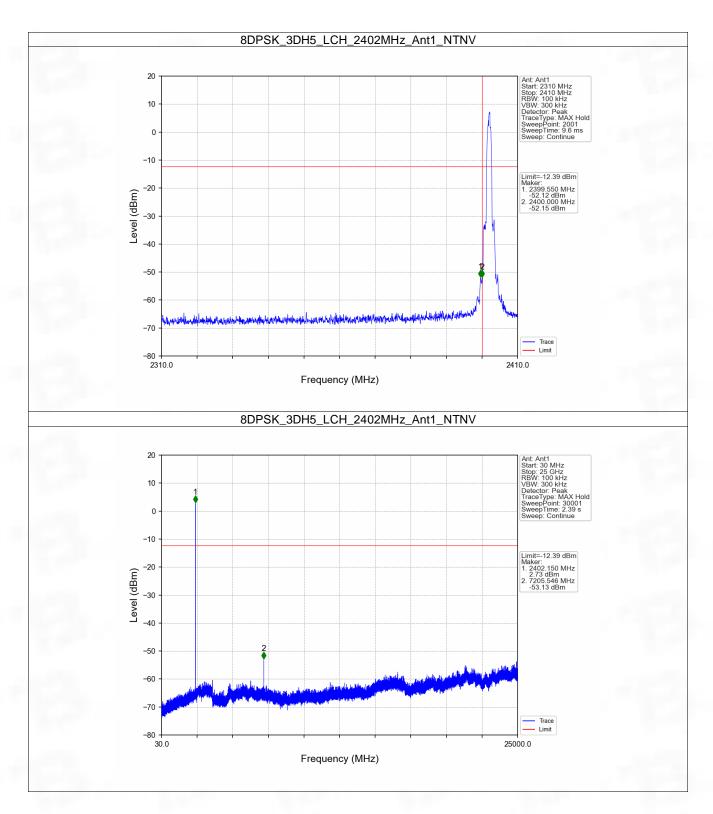


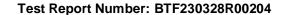




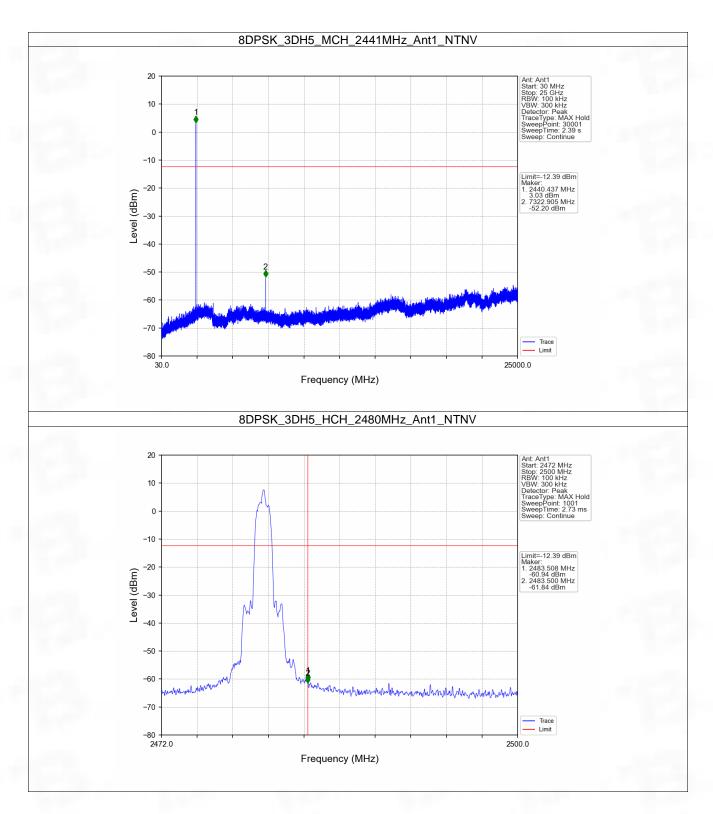


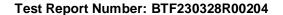




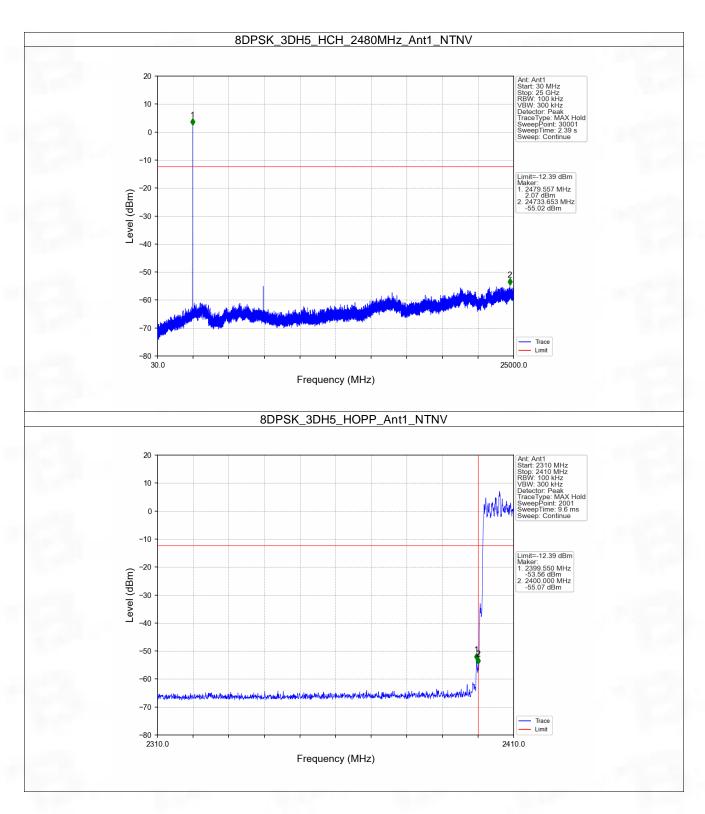


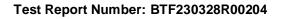




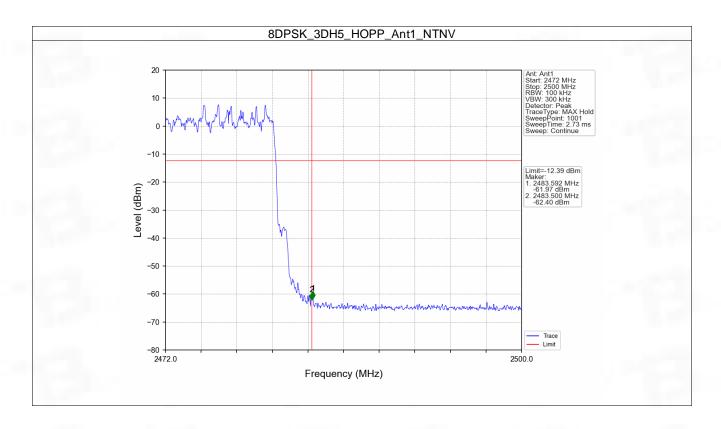


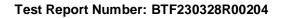












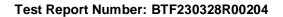


7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0069	8.41







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