

EMC-TRF-01 Rev 1.1

Report No.: GZCR230400038803

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## 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2402	DH5	2.901	5.000	58.02	2.36	0.04		
GFSK	SISO	2441	DH5	2.902	5.001	58.03	2.36	0.04		
		2480	DH5	2.901	5.000	58.02	2.36	0.04		
	SISO	2402	2DH5	2.907	4.999	58.15	2.35	0.02		
Pi/4DQPSK		2441	2DH5	2.907	4.998	58.16	2.35	0.02		
		2480	2DH5	2.907	4.998	58.16	2.35	0.02		
		2402	3DH5	2.909	5.001	58.17	2.35	0.04		
8DPSK	SISO	2441	3DH5	2.908	5.000	58.16	2.35	0.04		
		2480	3DH5	2.909	5.000	58.18	2.35	0.04		



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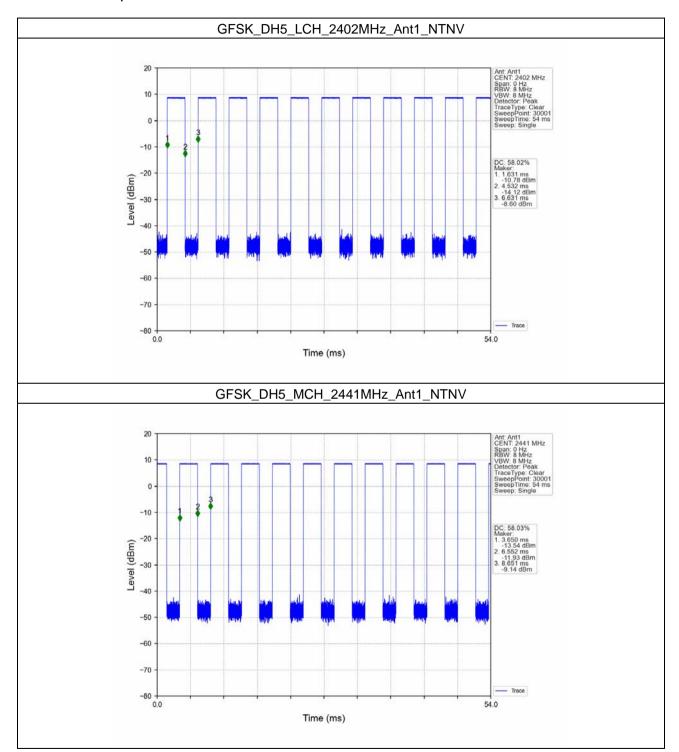


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#### 1.1.2 Test Graph





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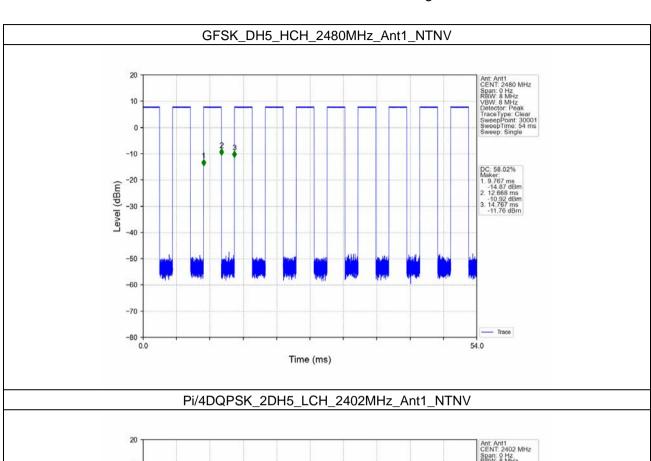
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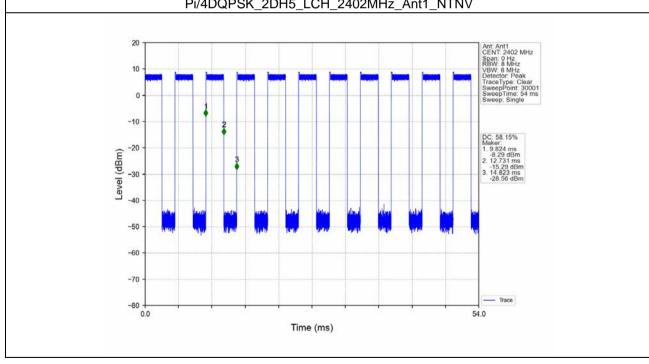


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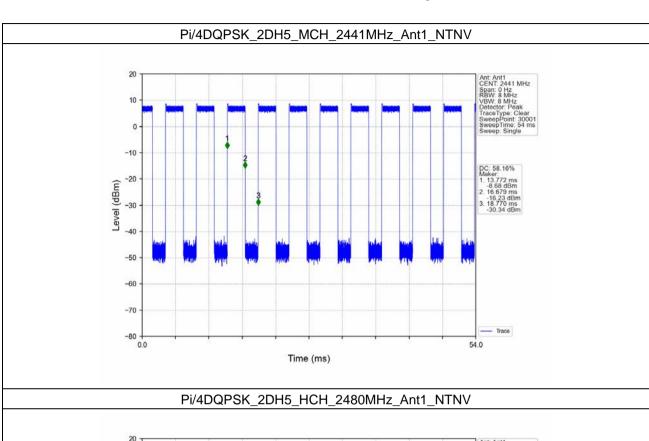
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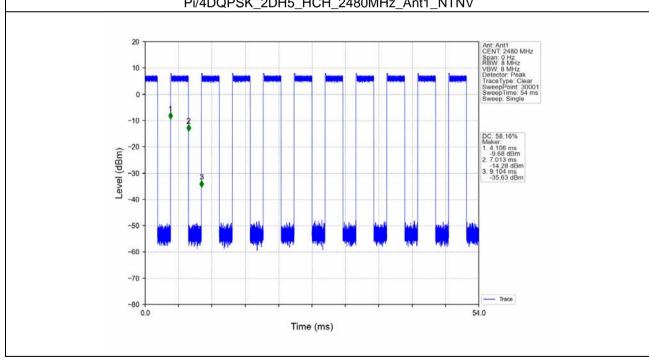


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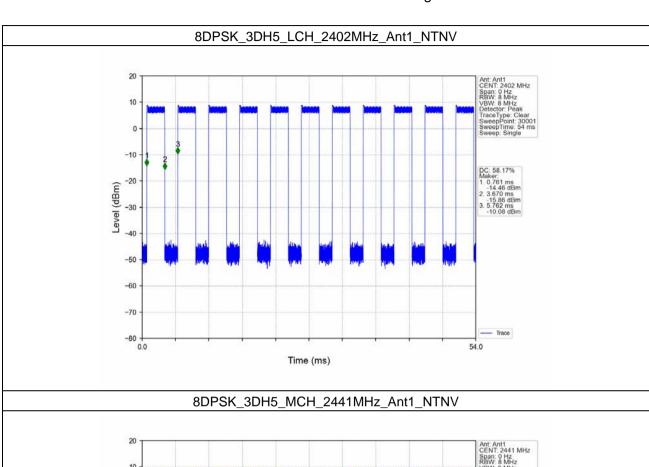
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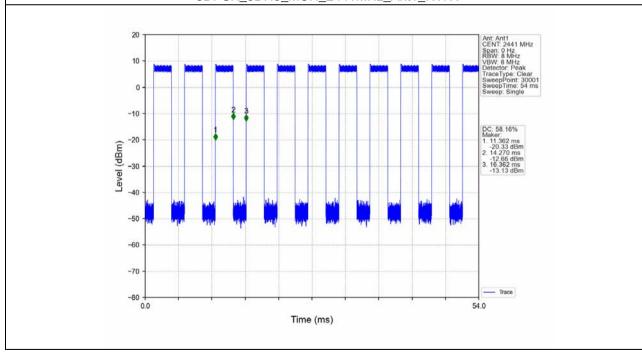


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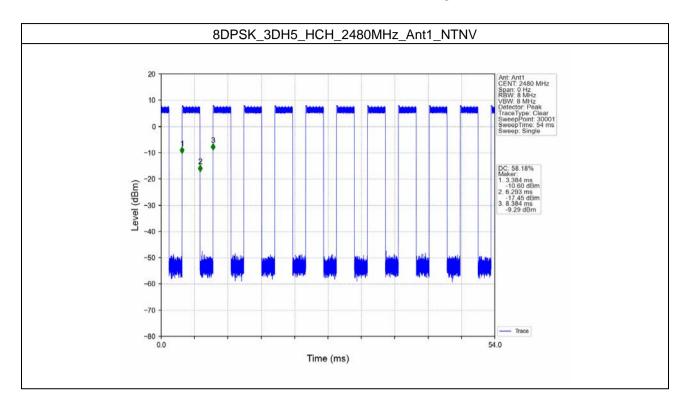
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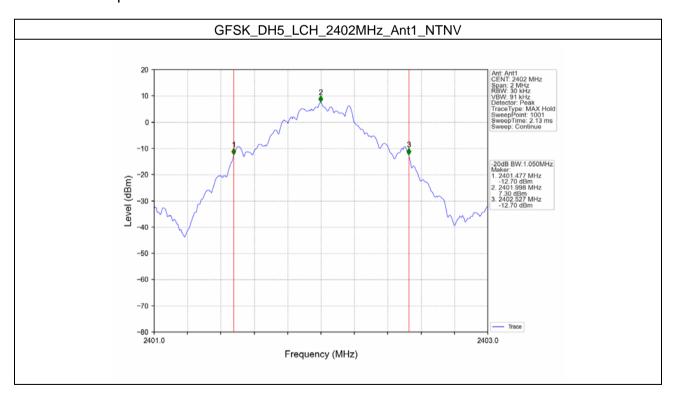
#### 2. Bandwidth

#### 2.1 20dB BW

#### 2.1.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict	
Mode	Туре	(MHz)	Type	AINI	Result	Verdict	
		2402	DH5	1	1.050	Pass	
GFSK	SISO	2441	DH5	1	1.048	Pass	
		2480	DH5	1	1.052	Pass	
	SISO	2402	2DH5	1	1.217	Pass	
Pi/4DQPSK		2441	2DH5	1	1.215	Pass	
		2480	2DH5	1	1.212	Pass	
8DPSK	SISO	2402	3DH5	1	1.238	Pass	
		2441	3DH5	1	1.238	Pass	
		2480	3DH5	1	1.238	Pass	

### 2.2.2 Test Graph





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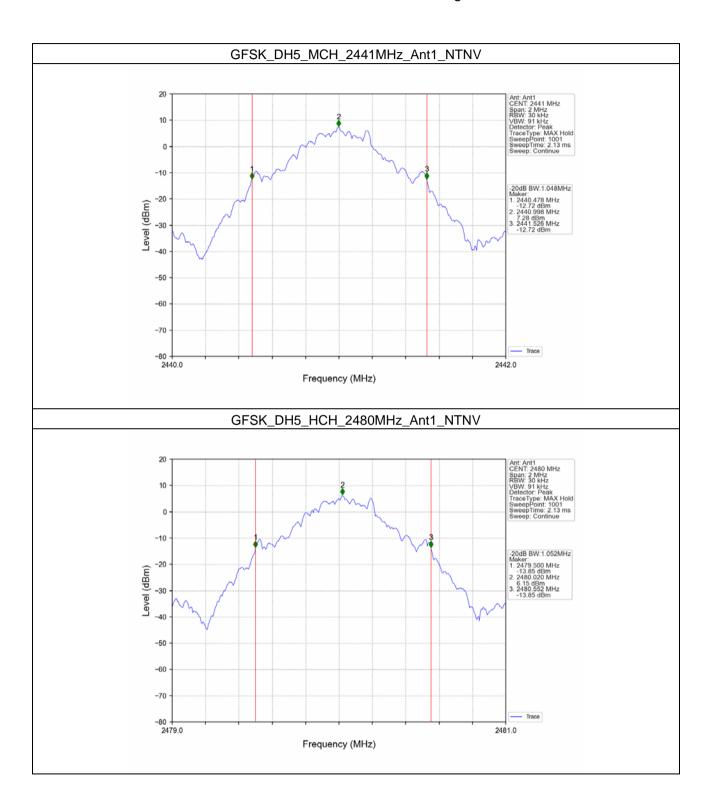
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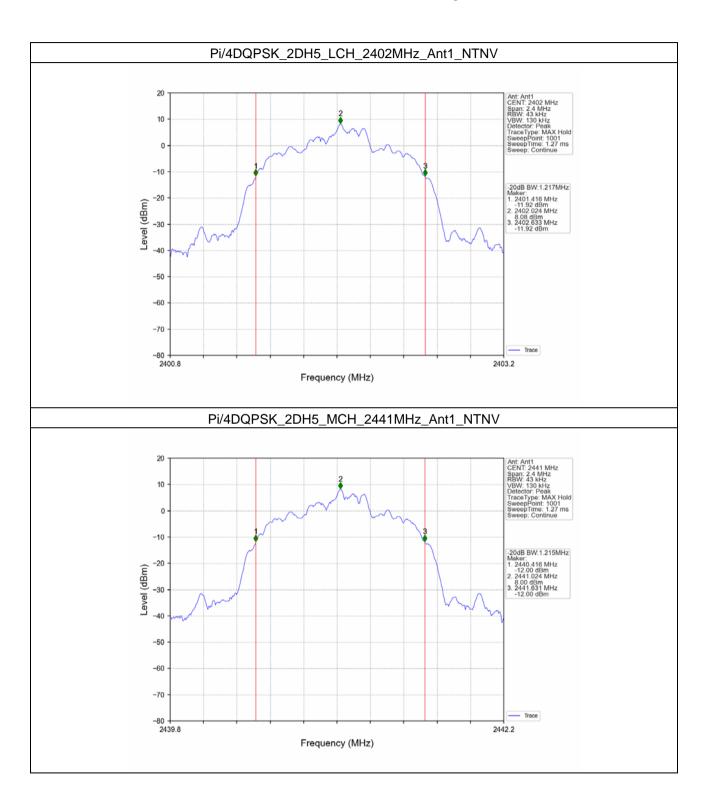
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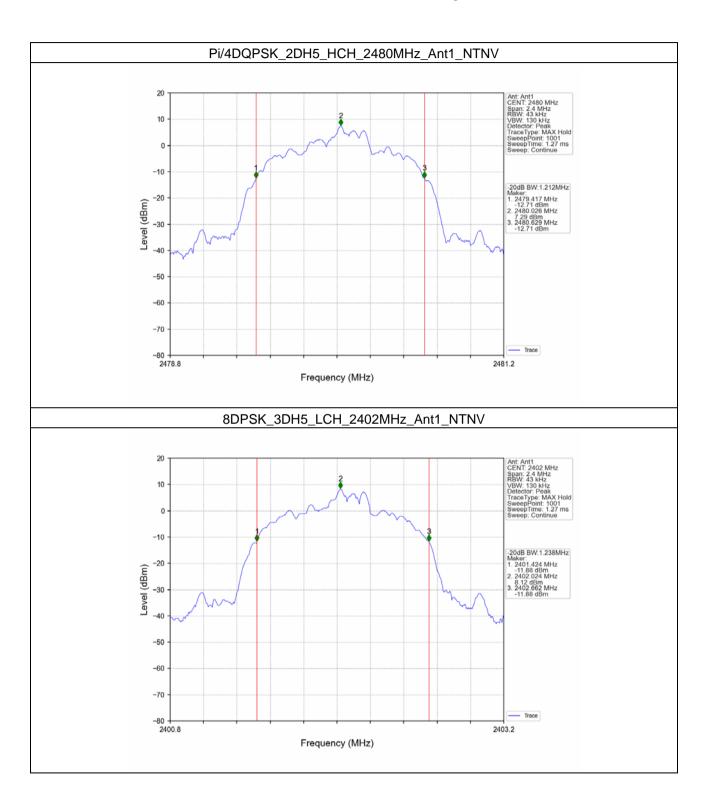
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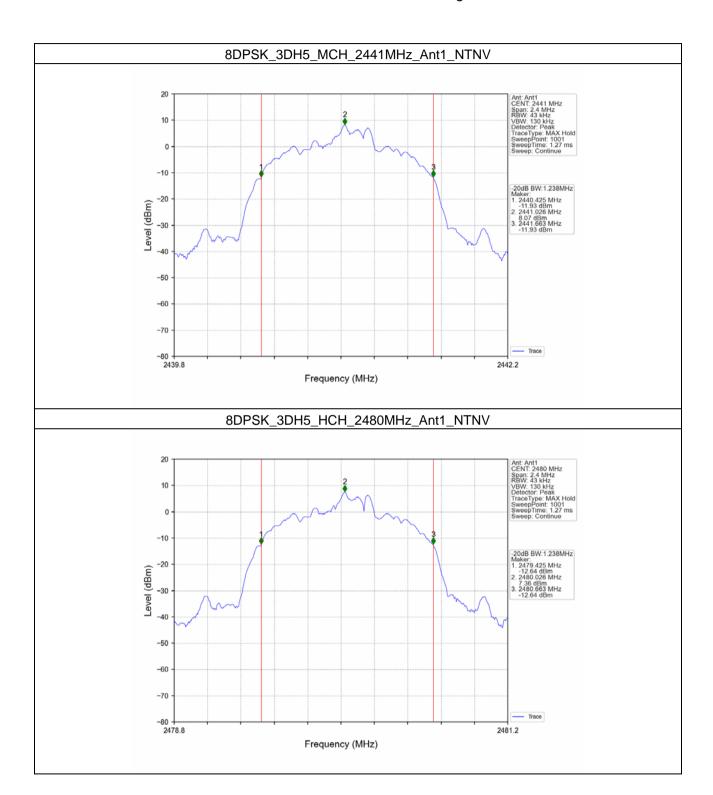
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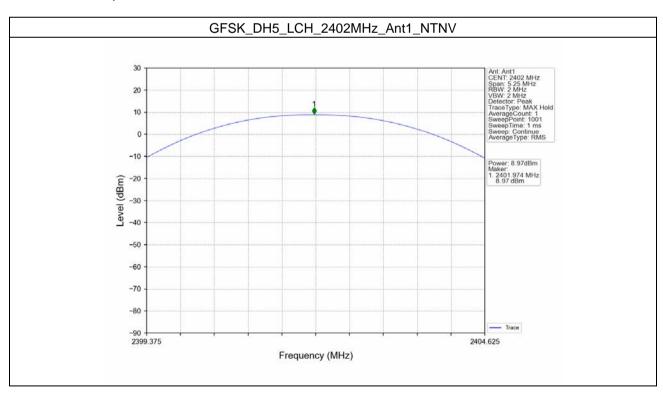
### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mada	TX	Frequency	Packet	Maximum Peak Conduc	\/o.rd:o4				
Mode	Type	(MHz)	Type	ANT1	Limit	Verdict			
		2402	DH5	8.97	<=20.97	Pass			
GFSK	SISO	2441	DH5	8.84	<=20.97	Pass			
		2480	DH5	7.97	<=20.97	Pass			
	SISO	2402	2DH5	8.91	<=20.97	Pass			
Pi/4DQPSK		2441	2DH5	8.85	<=20.97	Pass			
		2480	2DH5	7.91	<=20.97	Pass			
		2402	3DH5	8.94	<=20.97	Pass			
8DPSK	SISO	2441	3DH5	8.96	<=20.97	Pass			
		2480	3DH5	7.97	<=20.97	Pass			
Note1: Anten	Note1: Antenna Gain: Ant1: 3.01dBi;								

### 3.1.2 Test Graph





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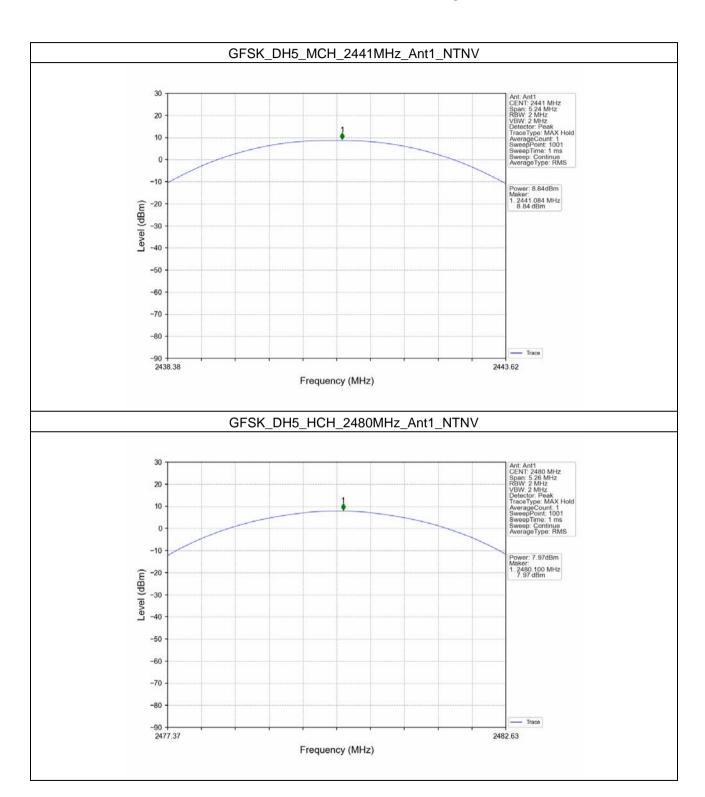
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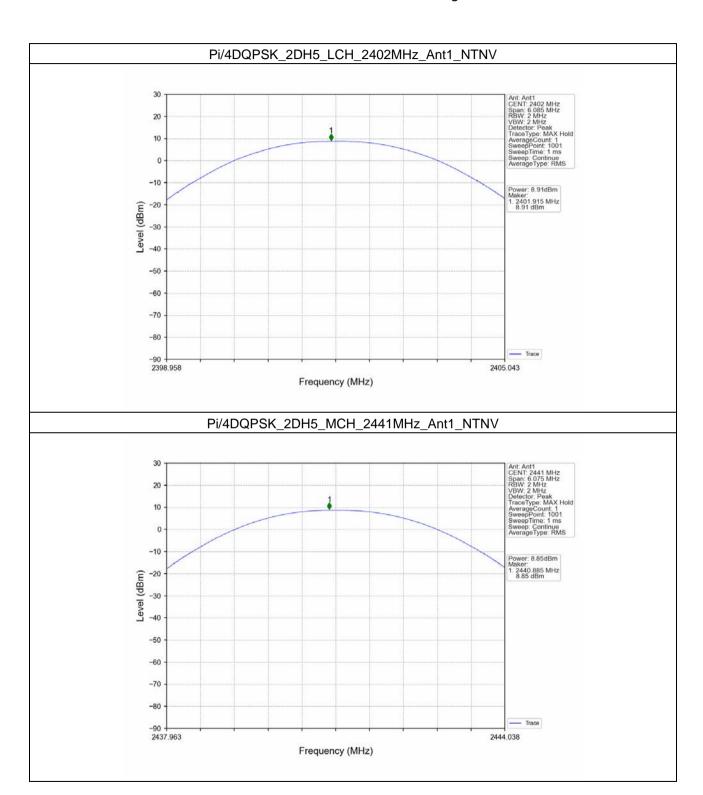
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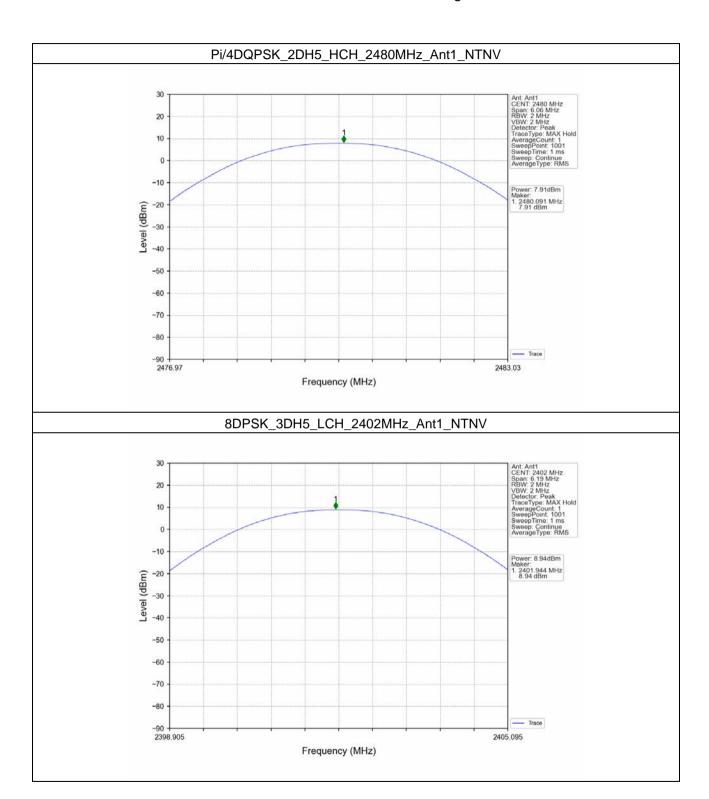
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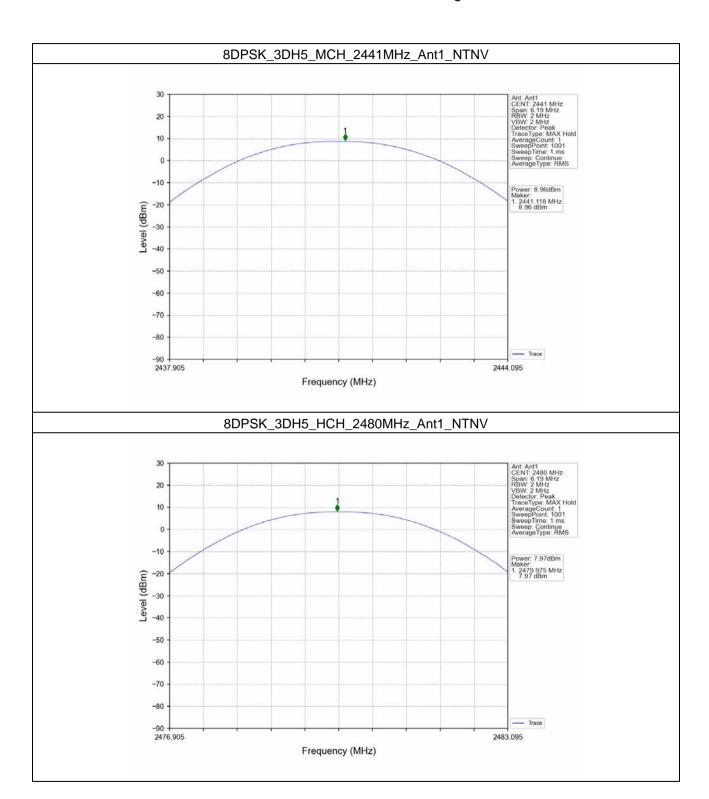
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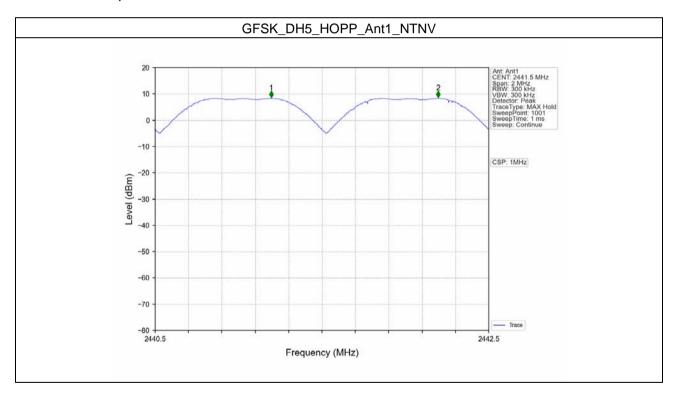
### 4. Carrier Frequency Separation

#### 4.1 Ant1

#### 4.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict			
GFSK	SISO	HOPP	DH5	1.000	1.052	>=0.701	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	0.982	1.217	>=0.811	Pass			
8DPSK	SISO	HOPP	3DH5	1.013	1.238	>=0.825	Pass			

#### 4.1.2 Test Graph





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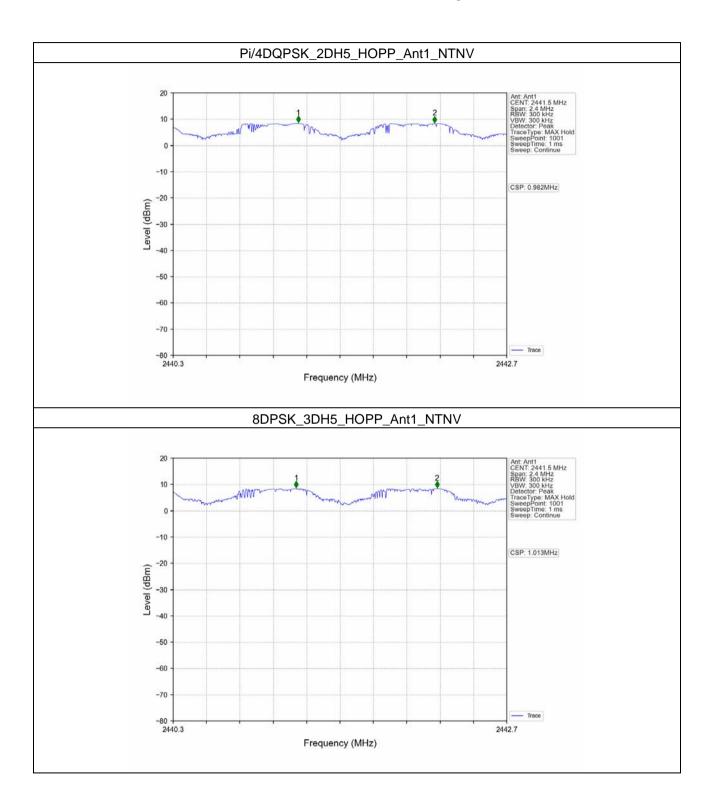
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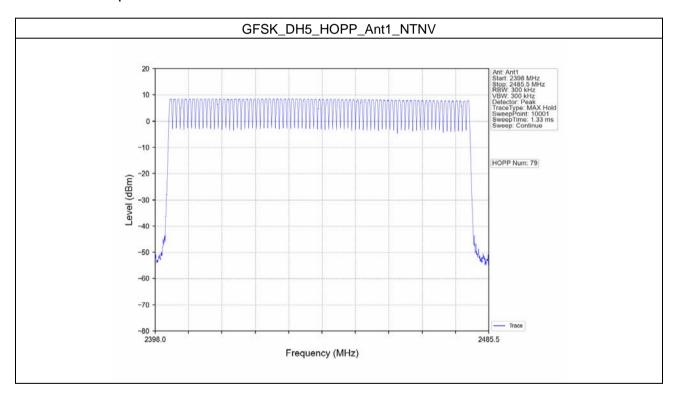
### 5. Number of Hopping Frequencies

### 5.1 HoppNum

#### 5.1.1 Test Result

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

### 5.1.2 Test Graph





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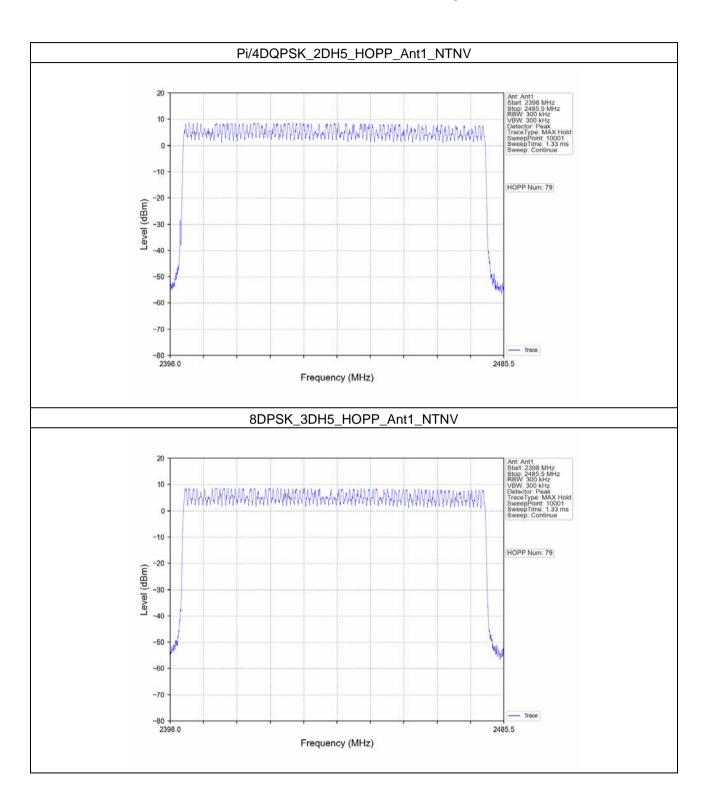
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### 6. Time of Occupancy (Dwell Time)

6.1 Ant1

#### 6.1.1 Test Result

				,	Ant1				
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
			DH1	0.402	31.600	149	59.898	<=400	Pass
GFSK	SISO	HOPP	DH3	1.658	31.600	96	159.168	<=400	Pass
			DH5	2.904	31.600	81	235.224	<=400	Pass
			2DH1	0.412	31.600	151	62.212	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH3	1.662	31.600	115	191.130	<=400	Pass
			2DH5	2.910	31.600	77	224.070	<=400	Pass
		SISO HOPP	3DH1	0.412	31.600	152	62.624	<=400	Pass
8DPSK	SISO		3DH3	1.662	31.600	95	157.890	<=400	Pass
			3DH5	2.912	31.600	82	238.784	<=400	Pass



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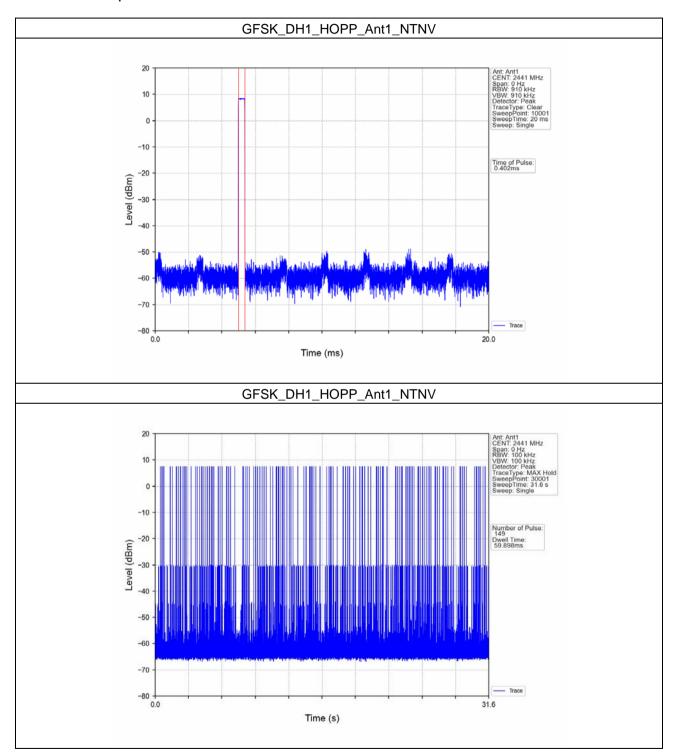


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#### 6.1.2 Test Graph



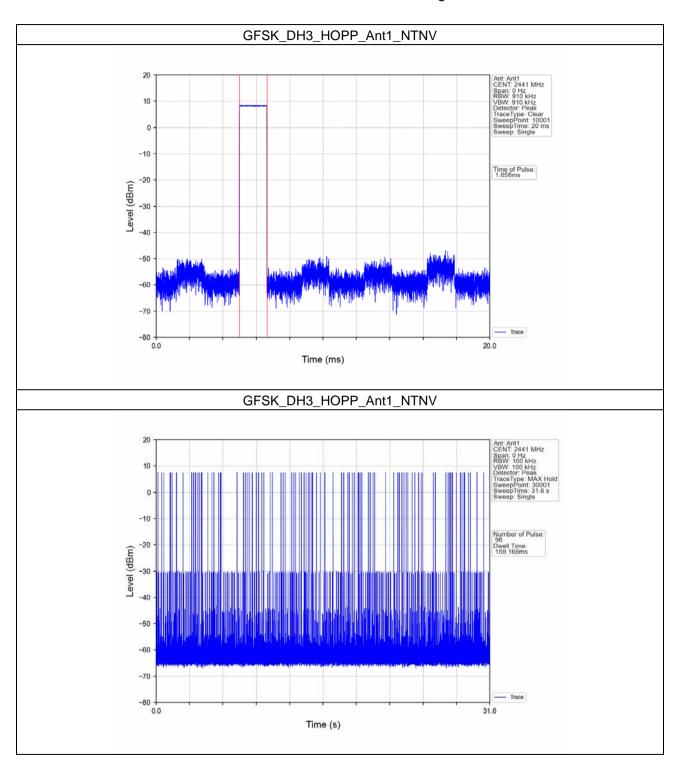




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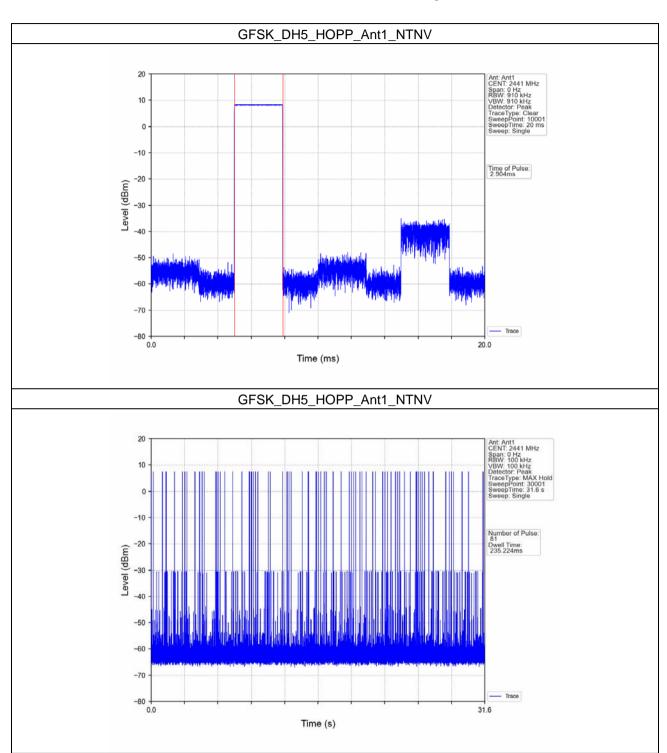
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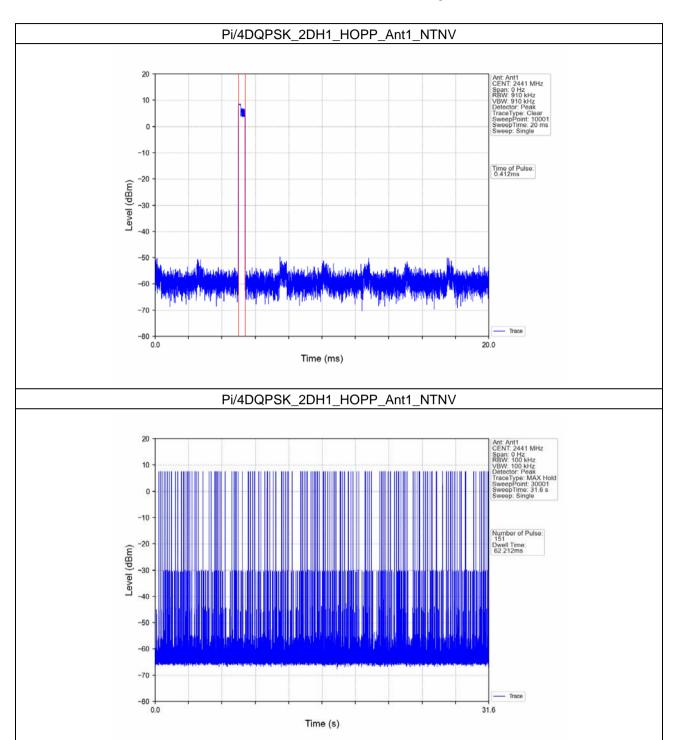
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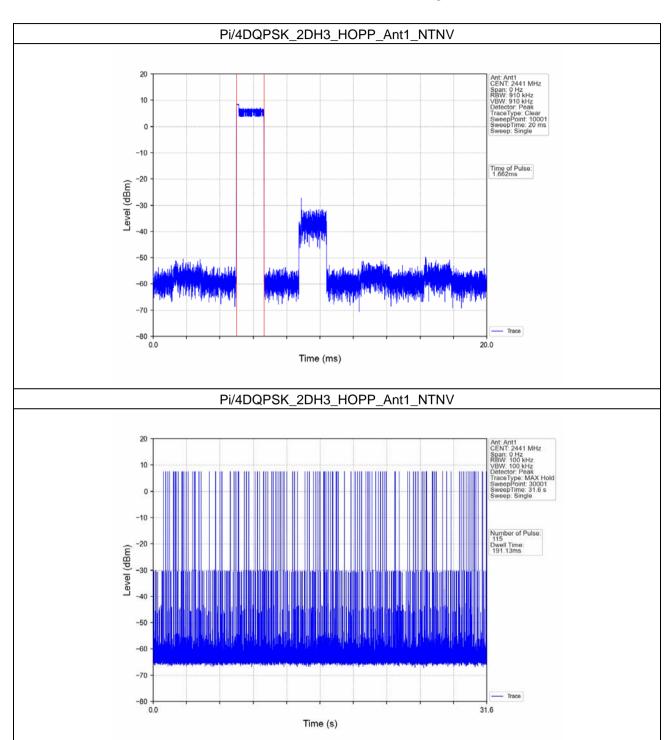




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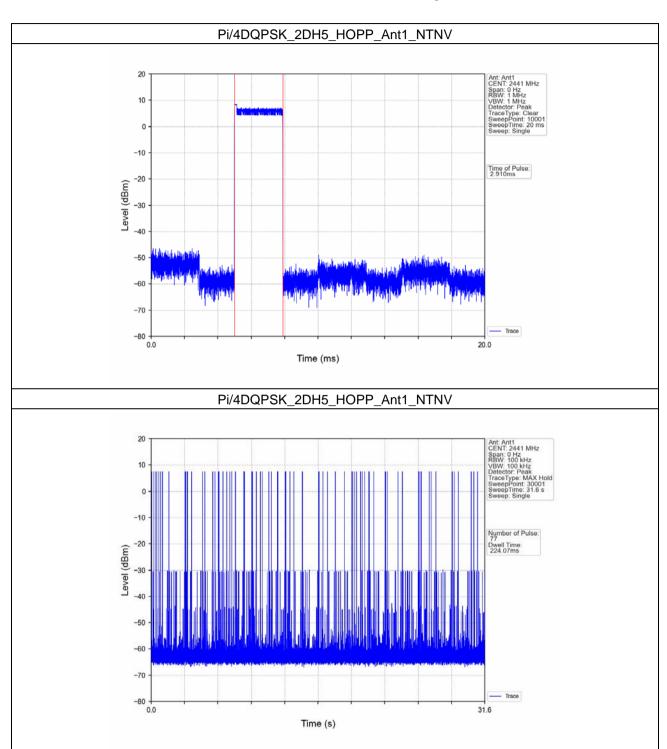




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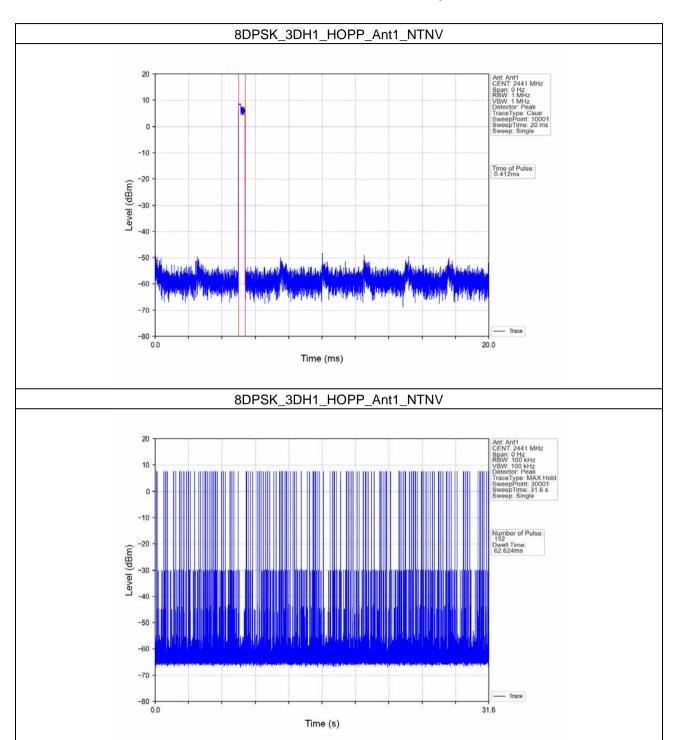
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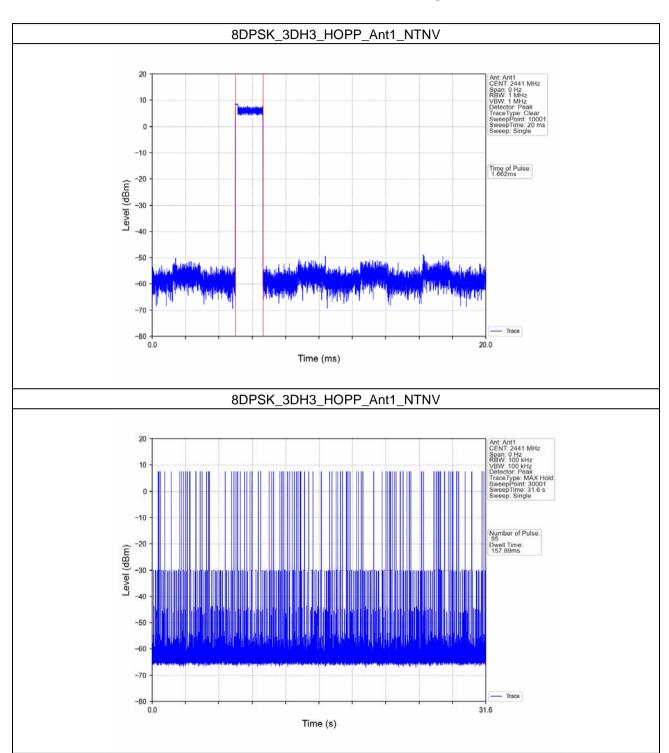
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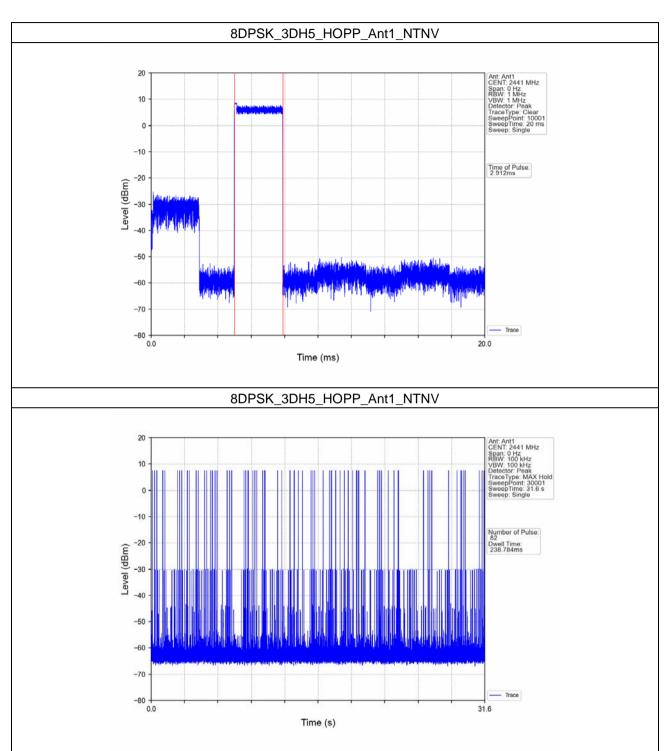




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### 7. Unwanted Emissions In Non-restricted Frequency Bands

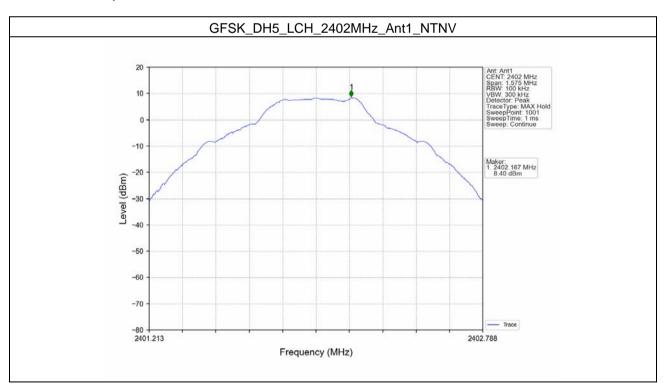
#### 7.1 Ref

#### 7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	8.40
GFSK	SISO	2441	DH5	1	8.31
		2480	DH5	1	7.48
	SISO	2402	2DH5	1	8.25
Pi/4DQPSK		2441	2DH5	1	8.19
		2480	2DH5	1	7.47
		2402	3DH5	1	8.42
8DPSK	SISO	2441	3DH5	1	8.42
		2480	3DH5	1	7.62

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.

#### 7.1.2 Test Graph





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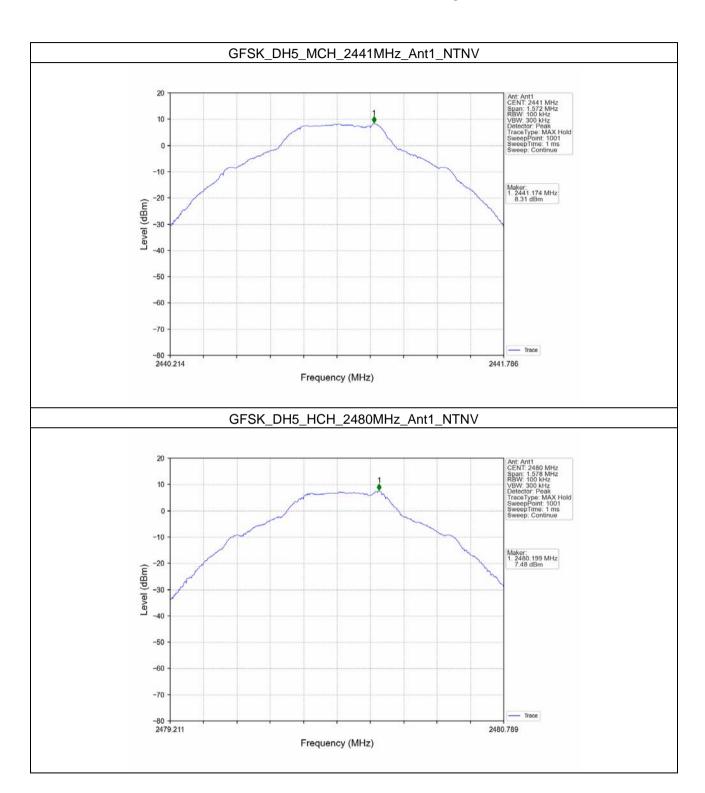
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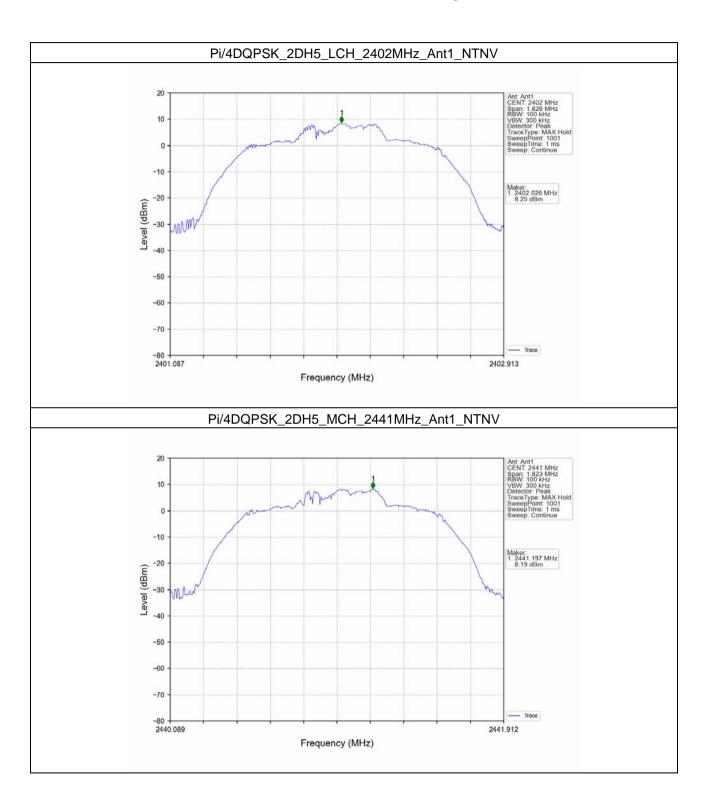
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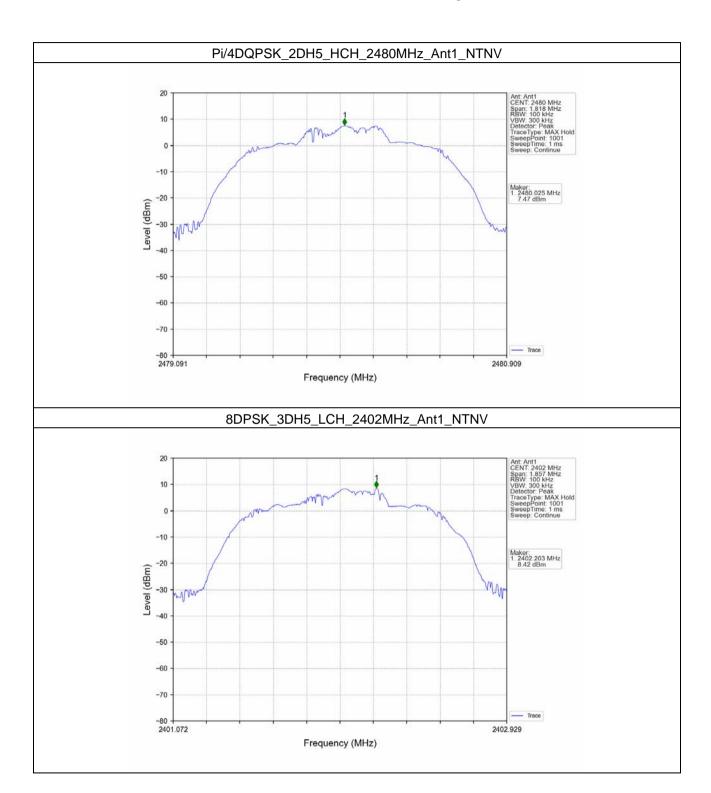
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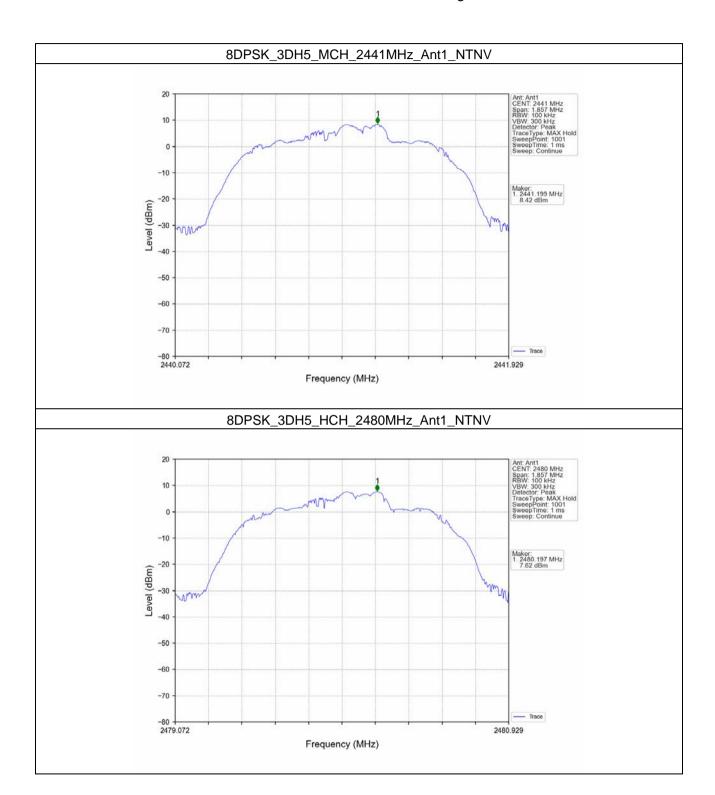
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#### 7.2 CSE and Band Edges

#### 7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	8.40	-11.60	Pass
OFOK	CICO	2441	DH5	1	8.40	-11.60	Pass
GFSK	SISO	2480	DH5	1	8.40	-11.60	Pass
		HOPP	DH5	1	8.40	-11.60	Pass
	SISO	2402	2DH5	1	8.25	-11.75	Pass
D:/4DODCK		2441	2DH5	1	8.25	-11.75	Pass
Pi/4DQPSK		2480	2DH5	1	8.25	-11.75	Pass
		HOPP	2DH5	1	8.25	-11.75	Pass
		2402	3DH5	1	8.42	-11.58	Pass
ODDCK	CICO	2441	3DH5	1	8.42	-11.58	Pass
8DPSK	SISO	2480	3DH5	1	8.42	-11.58	Pass
		HOPP	3DH5	1	8.42	-11.58	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.



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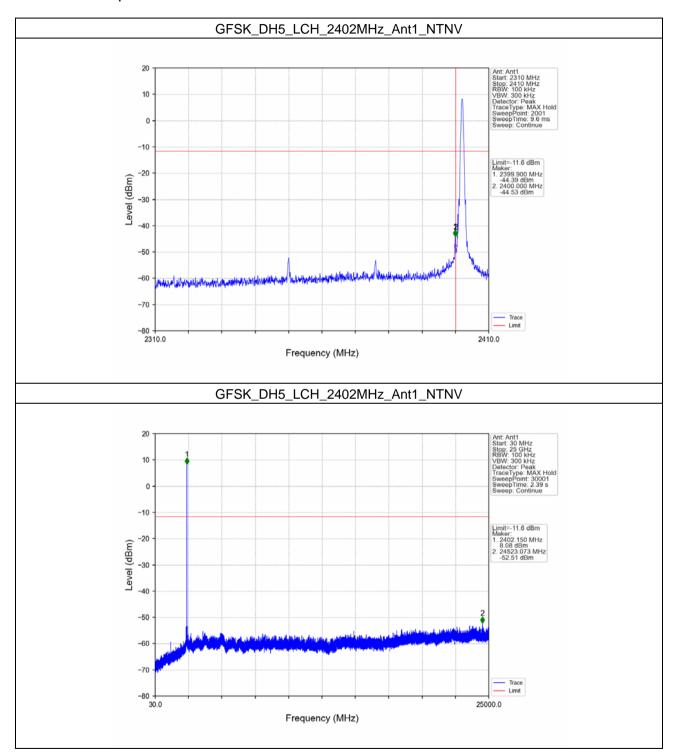


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#### 7.2.2 Test Graph





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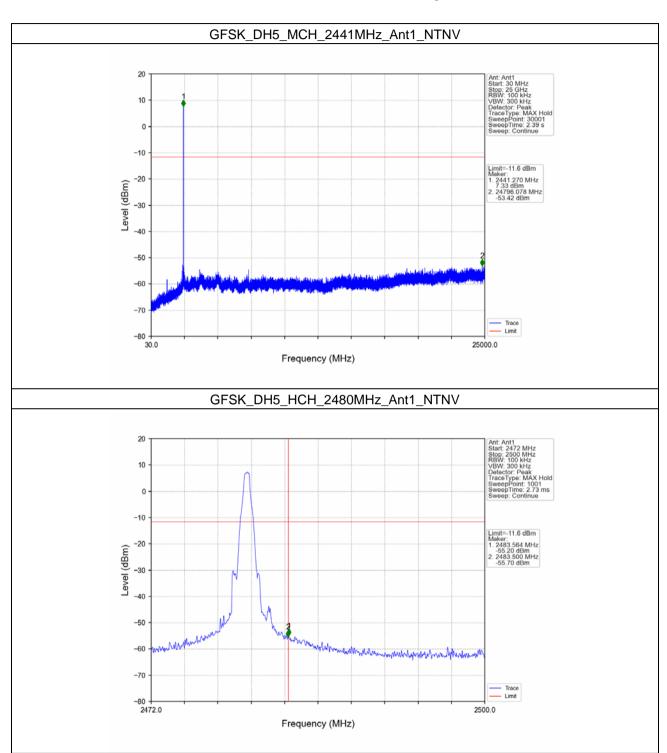
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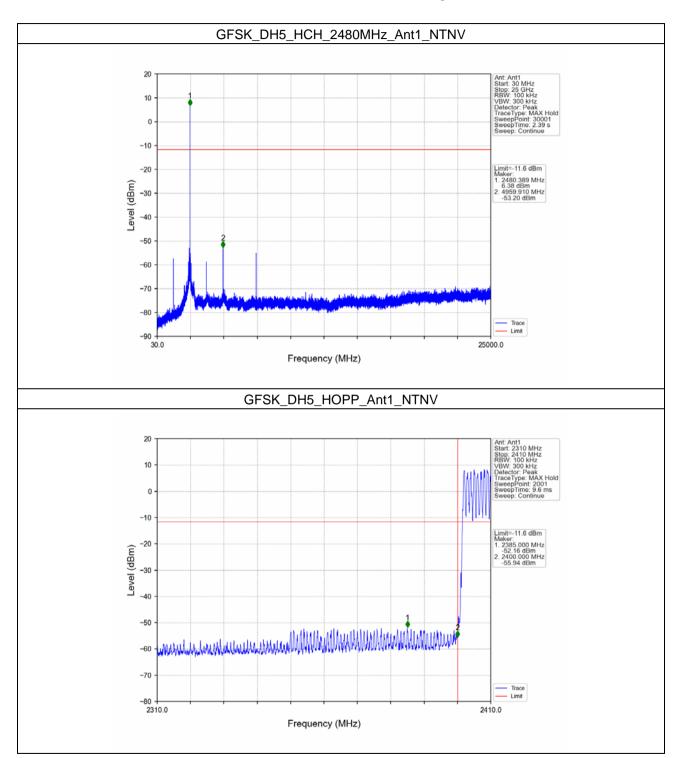
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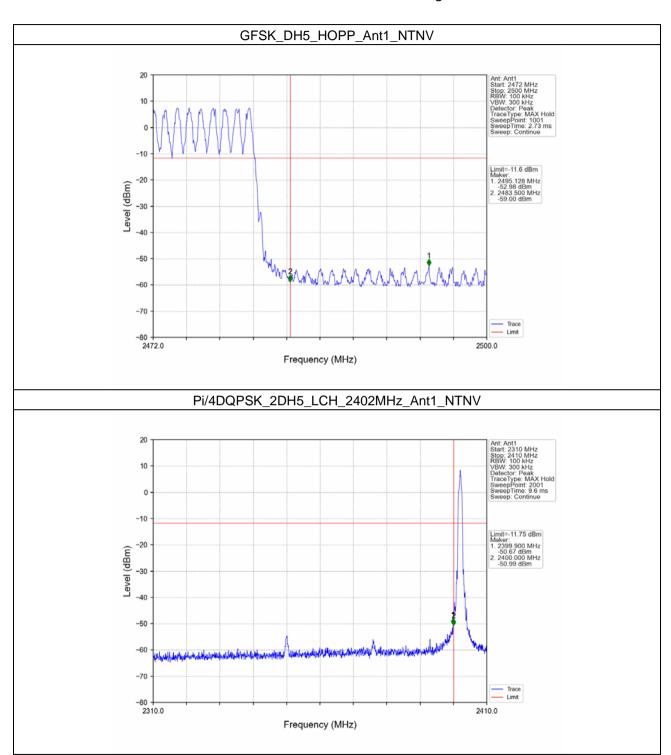
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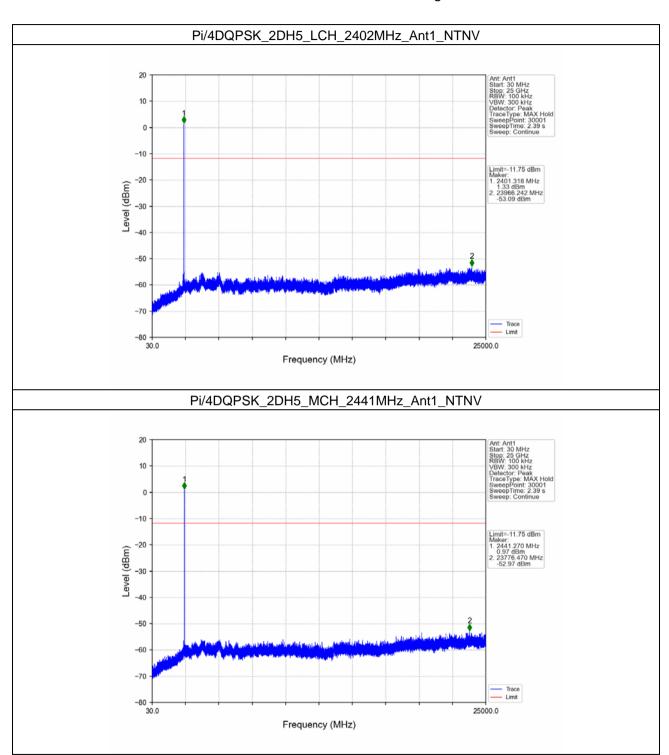




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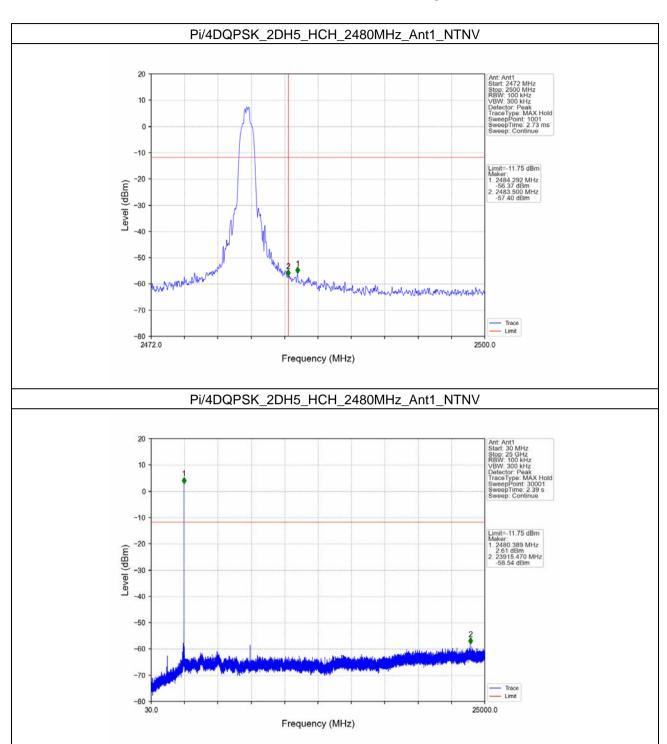
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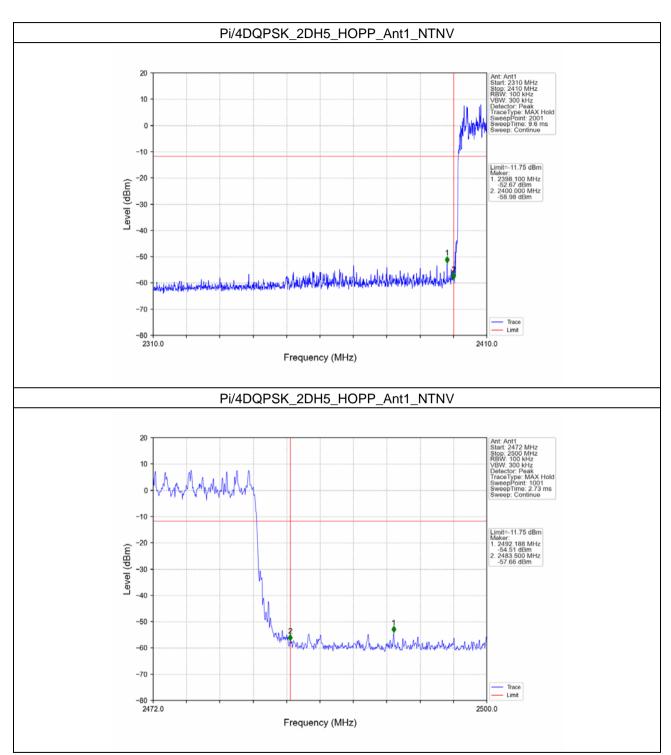




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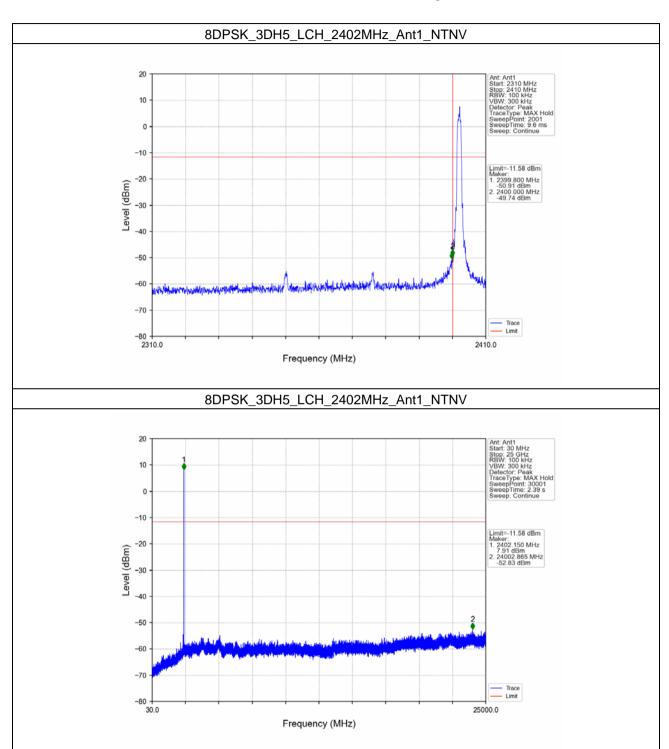




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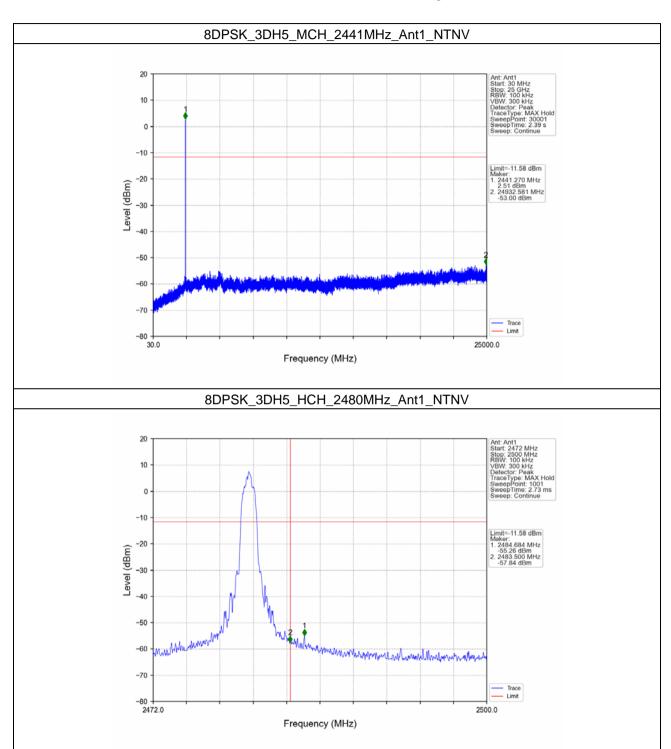




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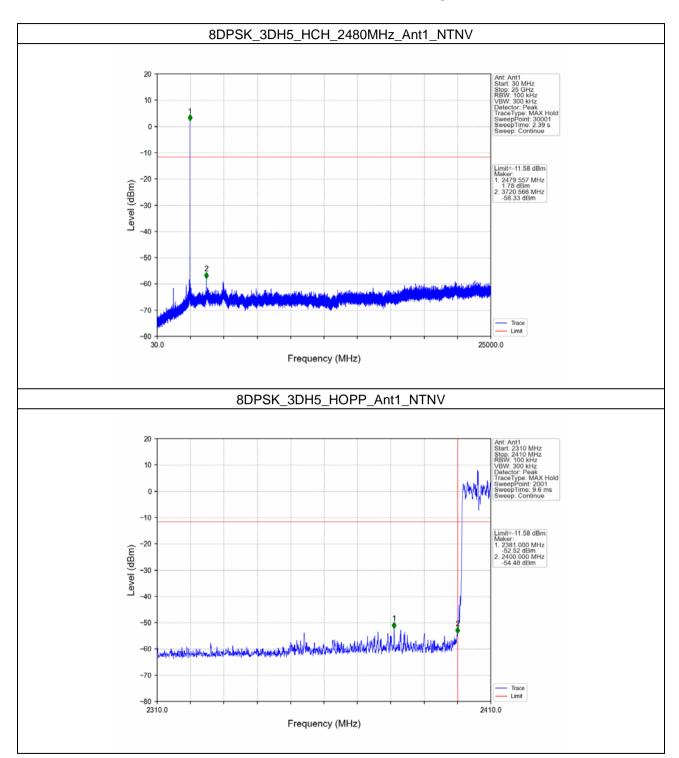




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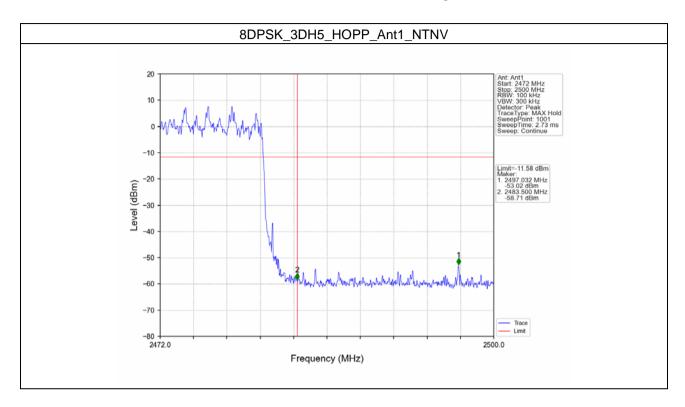
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