

Report No.: GZCR240900114802 EMC-TRF-01 Rev 1.1

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## 10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 20dB BW

Mada	TX	Frequency	Packet	ANT	20dB Band	\/ordiot	
Mode	Type	(MHz)	Type	VIN I	Result	Limit	Verdict
		2402	DH5	1	1.022	/	Pass
GFSK	SISO	2441	DH5	1	1.021	/	Pass
		2480	DH5	1	1.086	/	Pass
	SISO	2402	2DH5	1	1.316	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.311	/	Pass
		2480	2DH5	1	1.307	/	Pass
		2402	3DH5	1	1.301	/	Pass
8DPSK	SISO	2441	3DH5	1	1.303	/	Pass
		2480	3DH5	1	1.308	/	Pass



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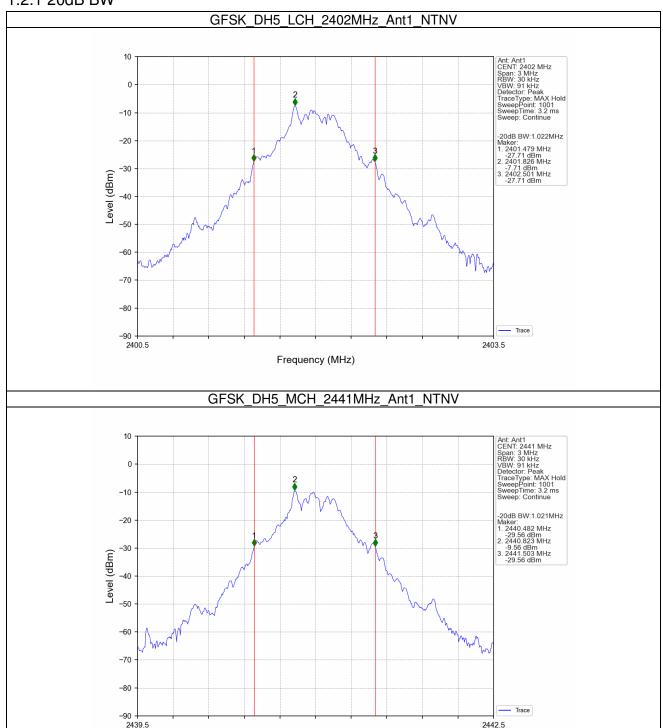


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#### 1.2 Test Graph

#### 1.2.1 20dB BW





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Frequency (MHz)

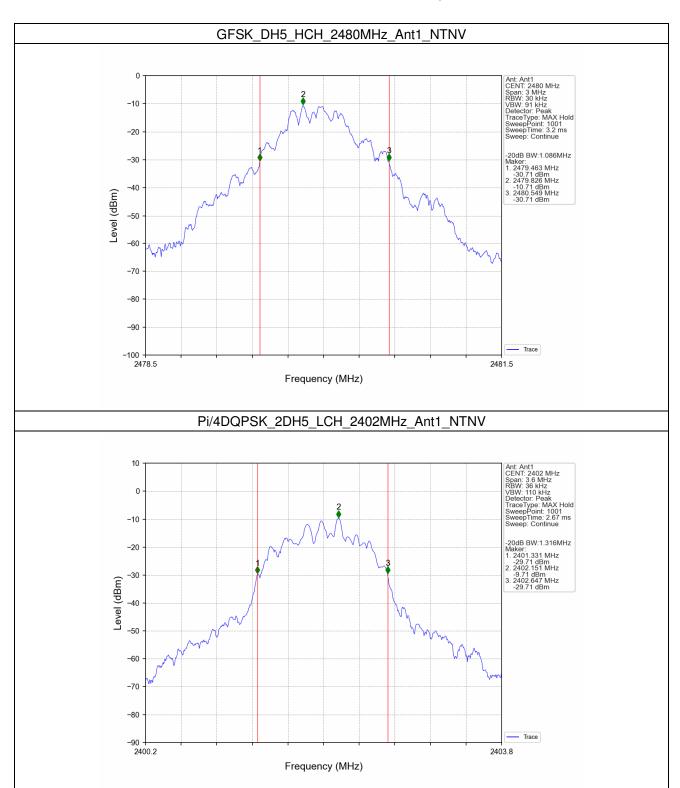
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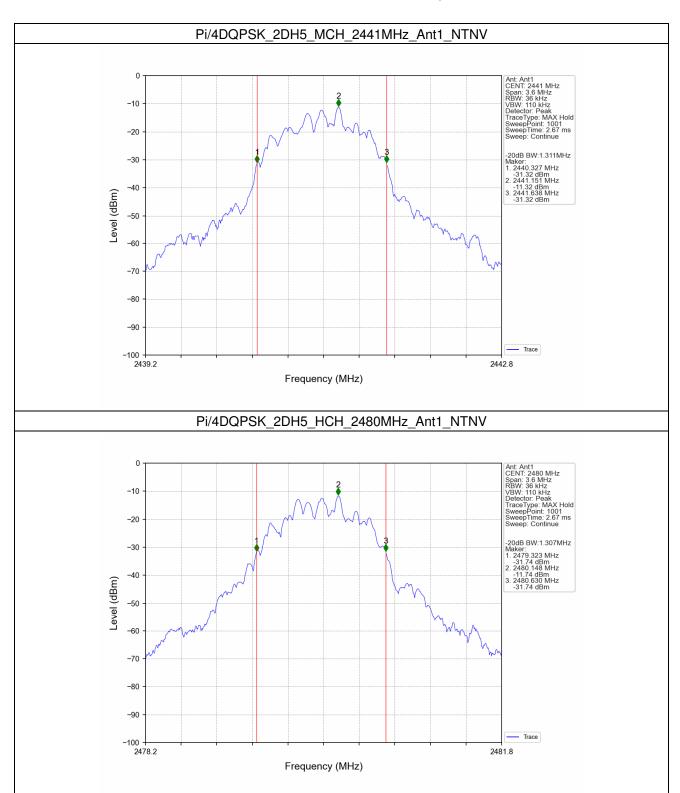
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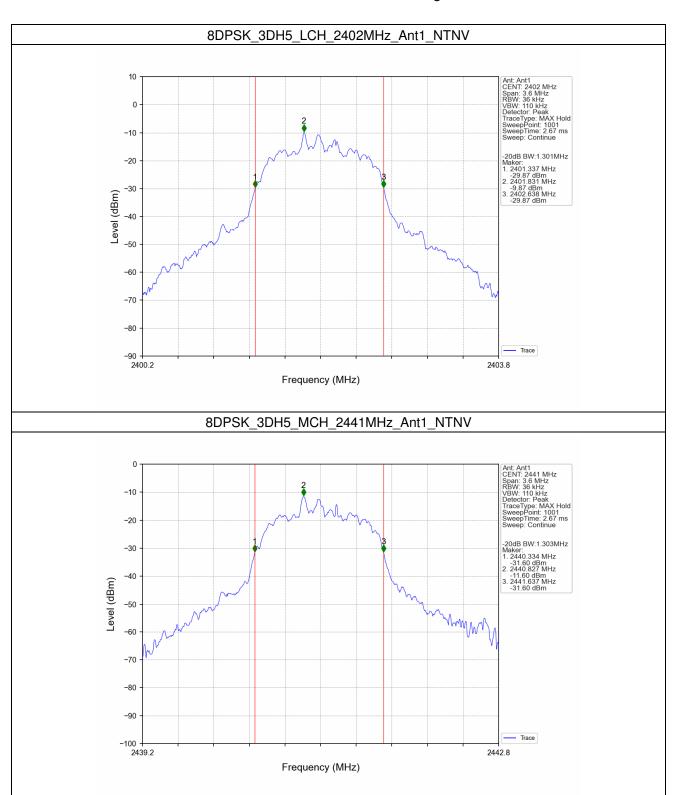
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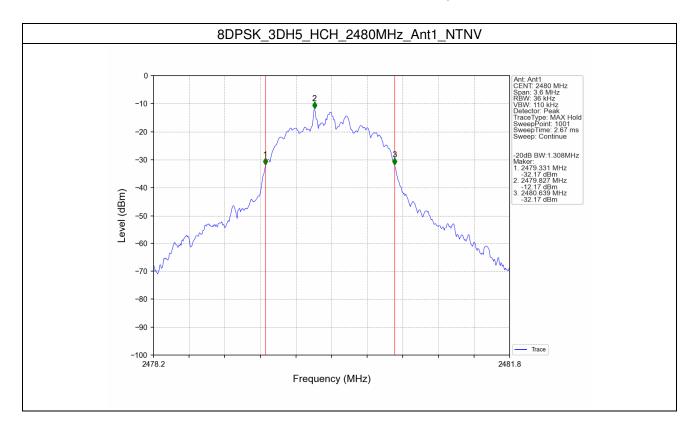
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#### 2. Maximum Conducted Output Power

#### 2.1 Test Result

#### 2.1.1 Power

Mode	TX		Packet		Maximum Peak Conducted Output Power (dBm)				
	Type	(MHz)	Type	ANT1	Limit				
		2402	DH5	-5.45	<=20.97	Pass			
GFSK	SISO	2441	DH5	-7.01	<=20.97	Pass			
		2480	DH5	-8.52	<=20.97	Pass			
	SISO	2402	2DH5	-7.13	<=20.97	Pass			
Pi/4DQPSK		2441	2DH5	-8.71	<=20.97	Pass			
		2480	2DH5	-9.16	<=20.97	Pass			
		2402	3DH5	-6.71	<=20.97	Pass			
8DPSK	SISO	2441	3DH5	-8.39	<=20.97	Pass			
		2480	3DH5	-8.86	<=20.97	Pass			
Note1: Antenr	Note1: Antenna Gain: Ant1: 1.70dBi;								



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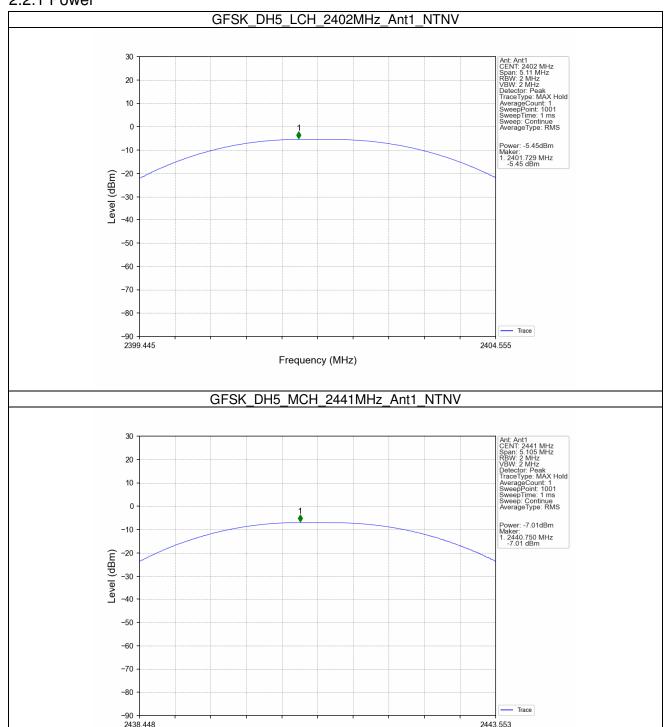


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#### 2.2 Test Graph

#### 2.2.1 Power





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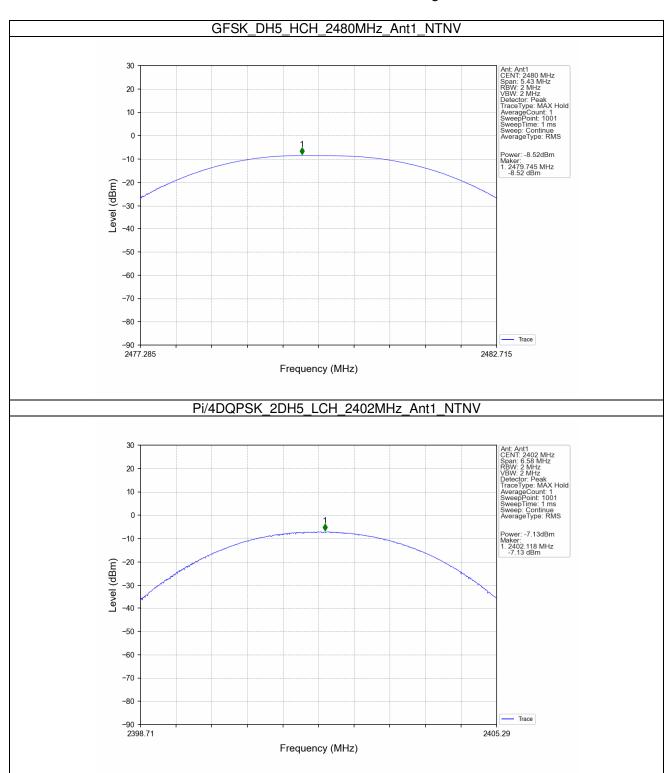
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Frequency (MHz)



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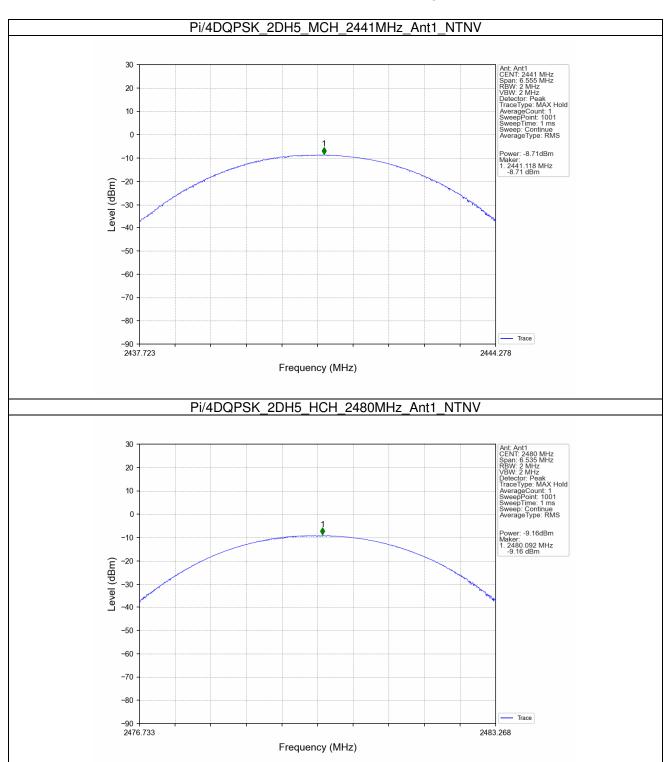
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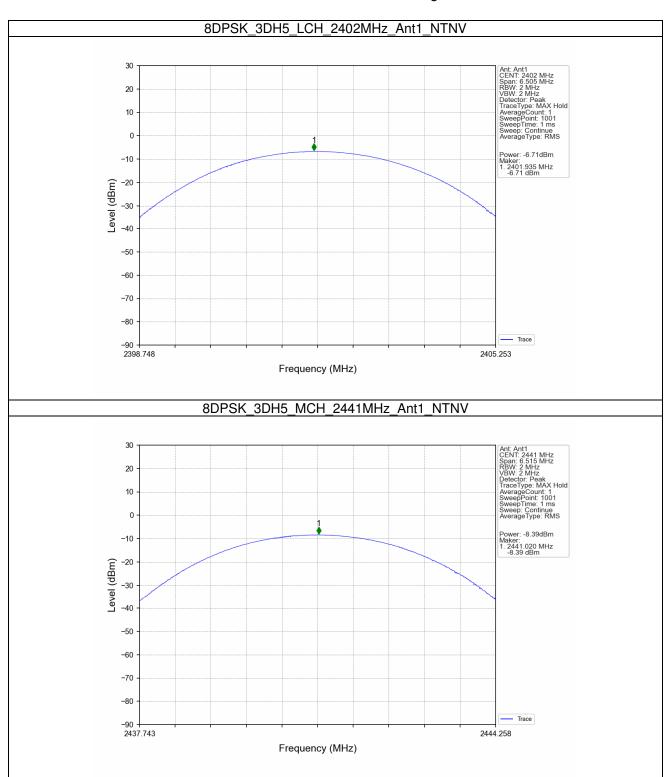
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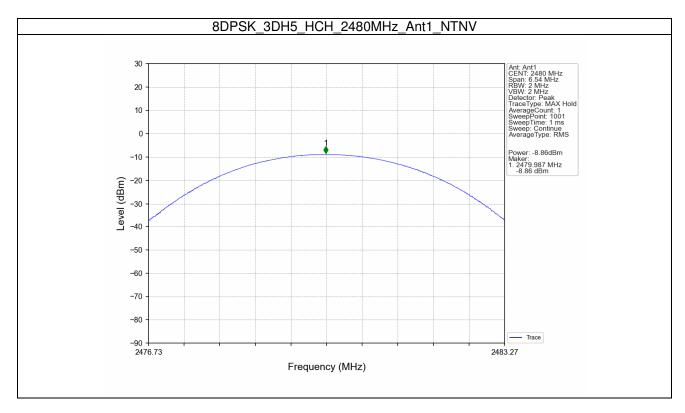
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#### 3. Carrier Frequency Separation

#### 3.1 Test Result

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#### 3.1.1 Ant1

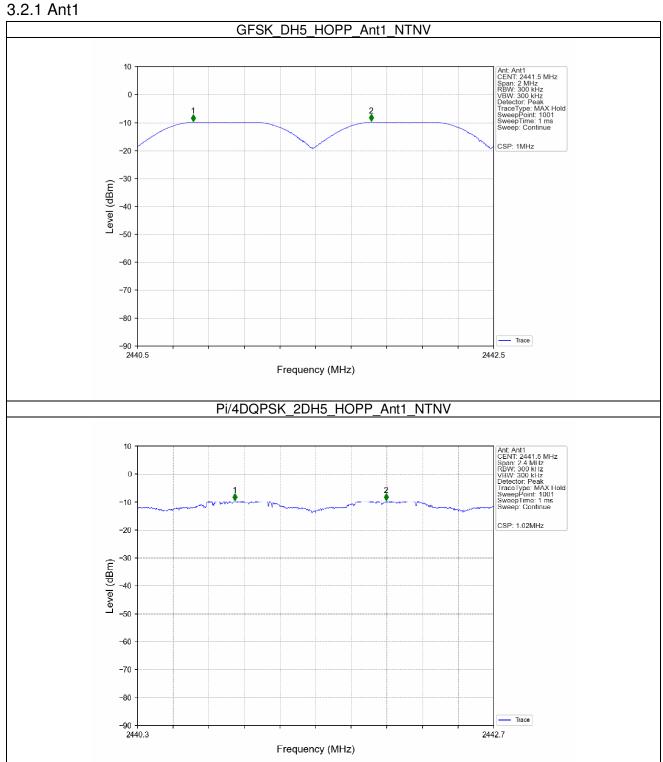
Ant1									
Mode	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Verdict		
Mode	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)	verdict		
GFSK	SISO	HOPP	DH5	1.000	1.086	>=0.724	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.020	1.316	>=0.877	Pass		
8DPSK	SISO	HOPP	3DH5	1.001	1.308	>=0.872	Pass		



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#### 3.2 Test Graph





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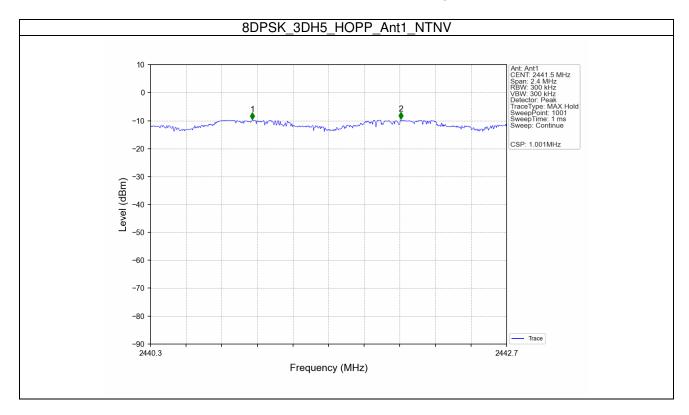
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#### 4. Number of Hopping Frequencies

#### 4.1 Test Result

#### 4.1.1 HoppNum

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Mode	TX	Frequency	Packet	Num of Hoppir	ng Frequencies	Verdict
iviode	Type	(MHz)	Type	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

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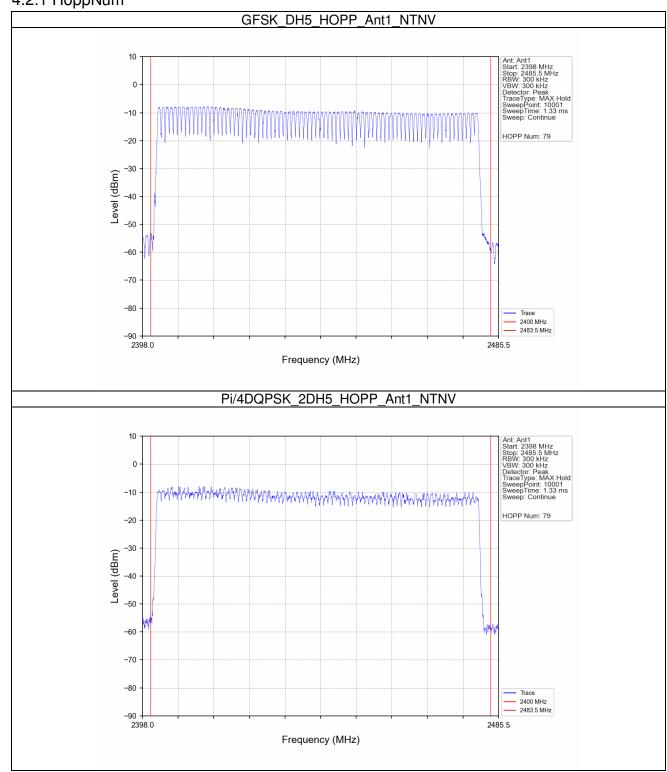


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#### 4.2 Test Graph

#### 4.2.1 HoppNum





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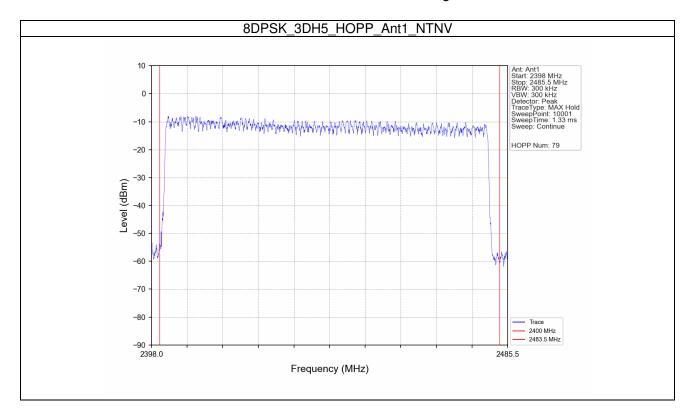
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检验检测专用章

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

5.1 Test Result

检验检测专用章 nspection & Testing Services

5.1.1 Ant1

	Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Uncervation	Dwell Time (ms)	Limit (ms)	Verdict	
			DH1	0.256	31.600	320	81.920	<=400	Pass	
GFSK S	SISO	SISO HOPP	DH3	0.256	31.600	320	81.920	<=400	Pass	
			DH5	0.256	31.600	319	81.664	<=400	Pass	
			2DH1	0.390	31.600	321	125.190	<=400	Pass	
Pi/4DQPSK	SISO	HOPP	2DH3	1.644	31.600	165	271.260	<=400	Pass	
			2DH5	2.896	31.600	122	353.312	<=400	Pass	
		SISO HOPP	3DH1	0.396	31.600	318	125.928	<=400	Pass	
8DPSK	SISO		3DH3	1.640	31.600	161	264.040	<=400	Pass	
			3DH5	2.892	31.600	111	321.012	<=400	Pass	



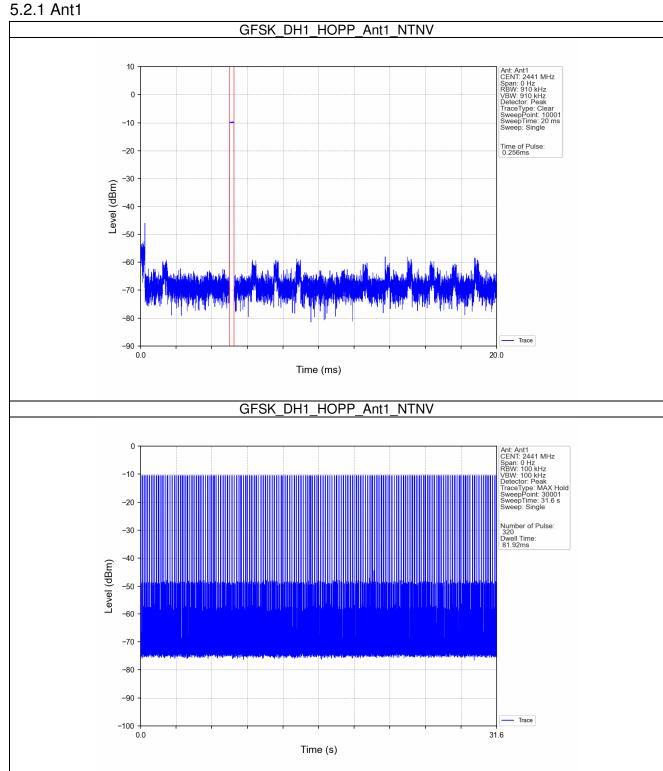
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#### 5.2 Test Graph





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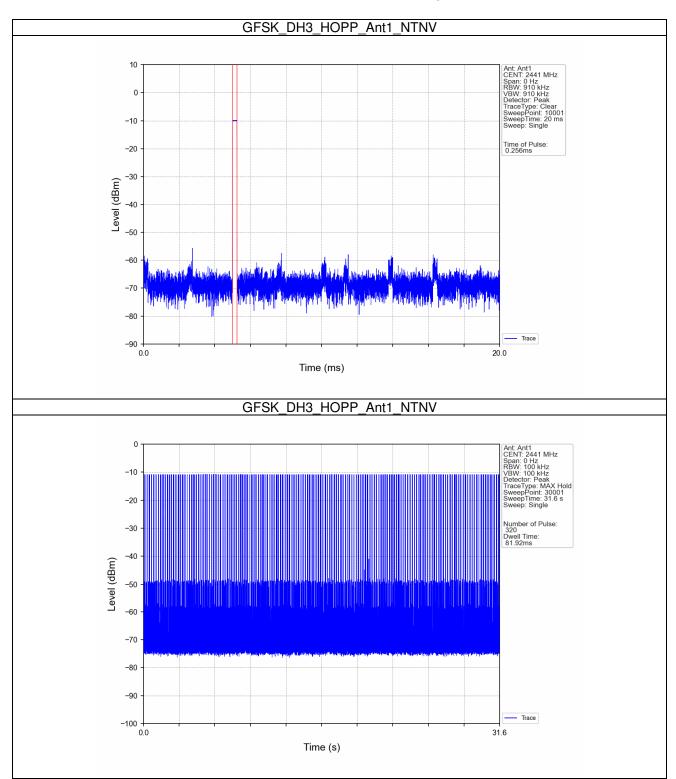
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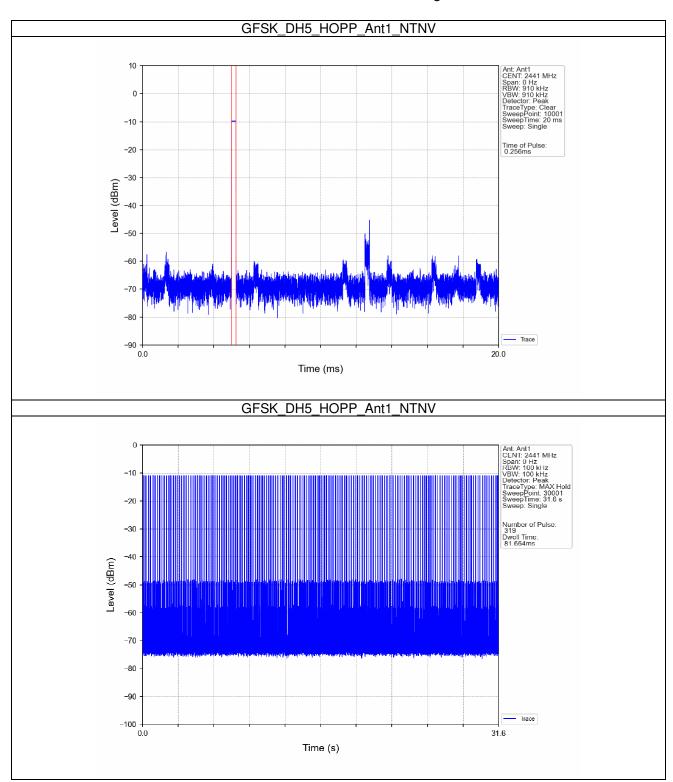
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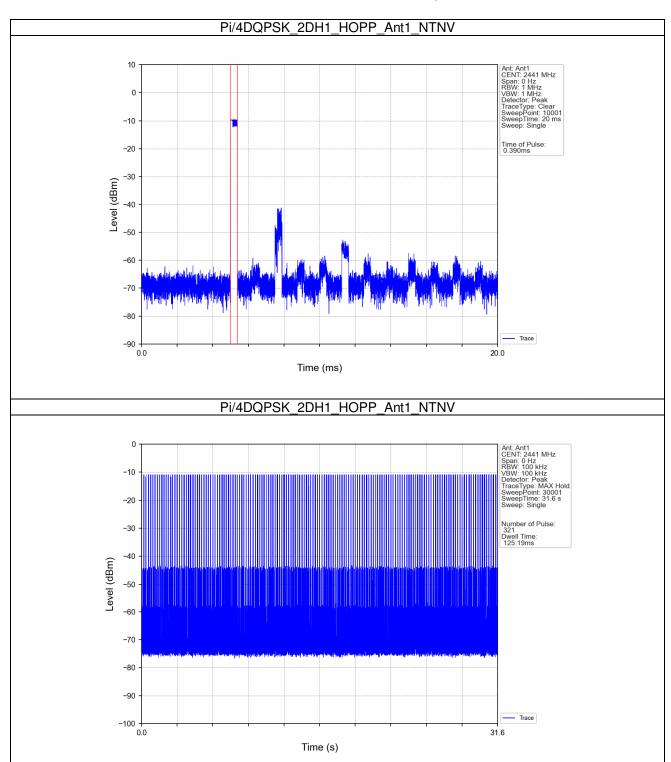
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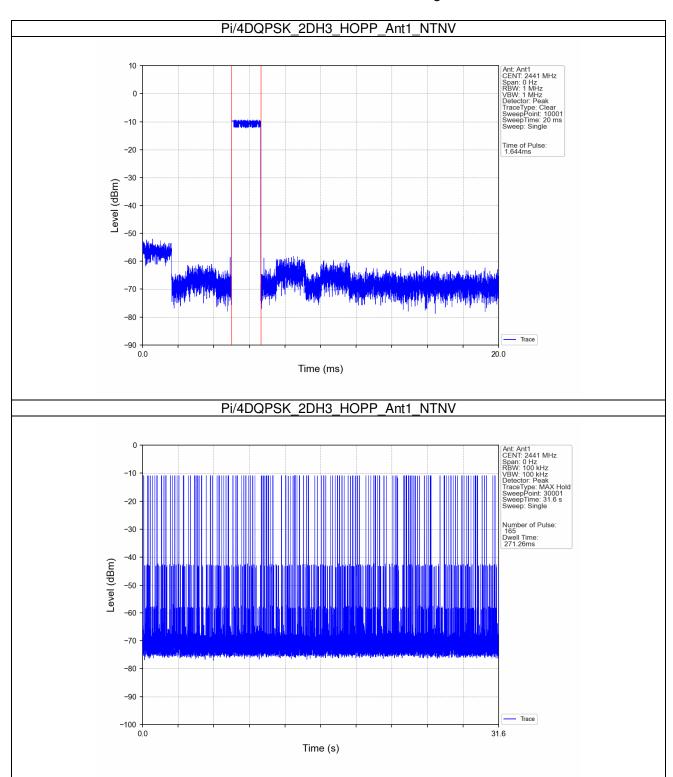
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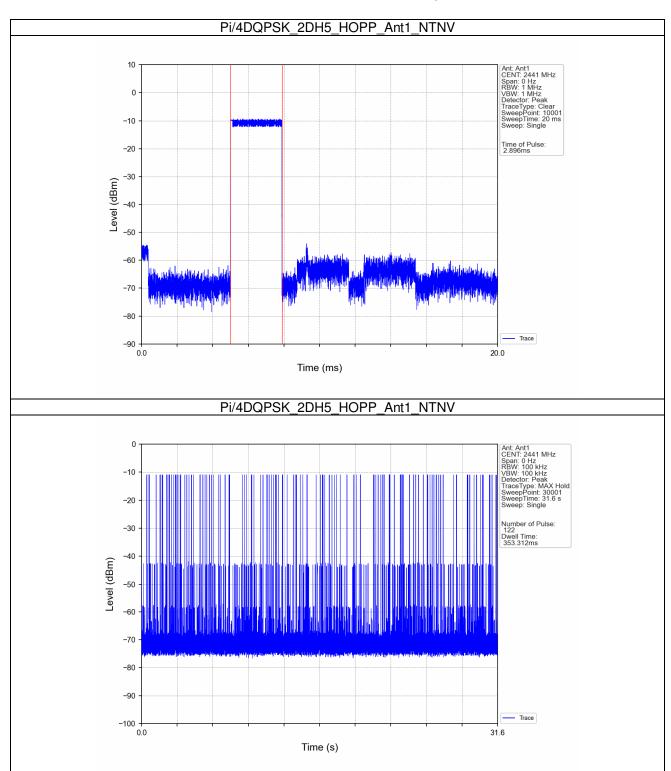
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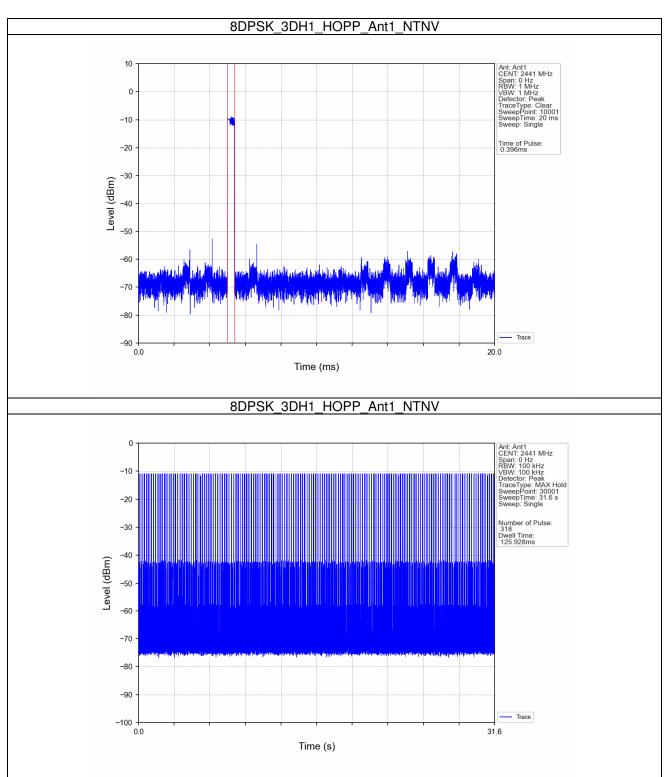
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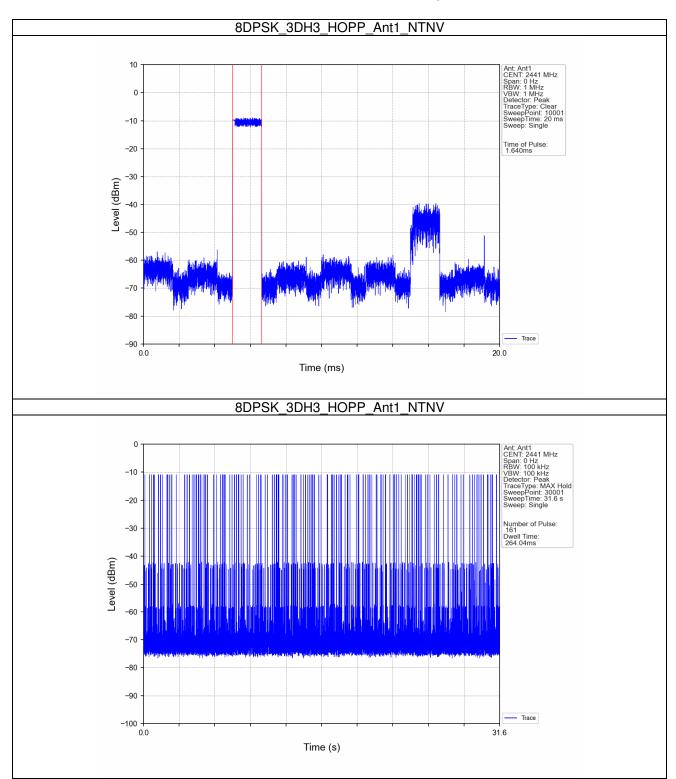
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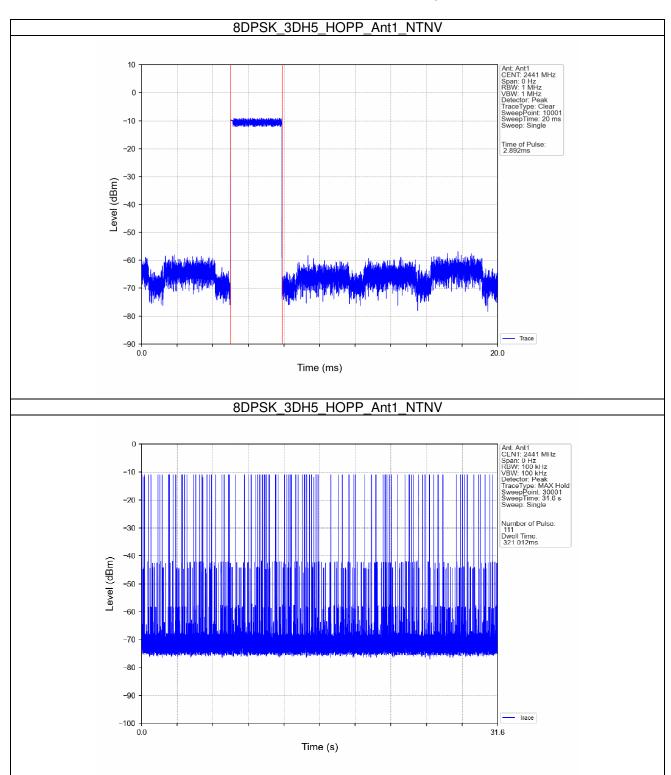
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#### 6. Unwanted Emissions In Non-restricted Frequency Bands

#### 6.1 Test Result

#### 6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	-5.67
GFSK	SISO	2441	DH5	1	-7.26
		2480	DH5	1	-8.61
	SISO	2402	2DH5	1	-8.25
Pi/4DQPSK		2441	2DH5	1	-9.88
		2480	2DH5	1	-10.25
		2402	3DH5	1	-8.29
8DPSK	SISO	2441	3DH5	1	-10.26
		2480	3DH5	1	-10.58

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 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict	
		2402	DH5	1	-5.67	-25.67	Pass	
		2441	DH5	1	-5.67	-25.67	Pass	
GFSK	SISO	2480	DH5	1	-5.67	-25.67	Pass	
		HOPP	DH5	4	-5.67	-25.67	Pass	
		HOPP	טחט		-5.67	-25.67	Pass	
	SISO	2402	2DH5	1	-8.25	-28.25	Pass	
		2441	2DH5	1	-8.25	-28.25	Pass	
Pi/4DQPSK		2480	2DH5	1	-8.25	-28.25	Pass	
		HOPP	2DH5	1	-8.25	-28.25	Pass	
			20113		-8.25	-28.25	Pass	
	SISO		2402	3DH5	1	-8.29	-28.29	Pass
8DPSK		2441	3DH5	1	-8.29	-28.29	Pass	
		2480	3DH5	1	-8.29	-28.29	Pass	
		HOPP 3DH5	2045	1	-8.29	-28.29	Pass	
			3003	ו פחע	-8.29	-28.29	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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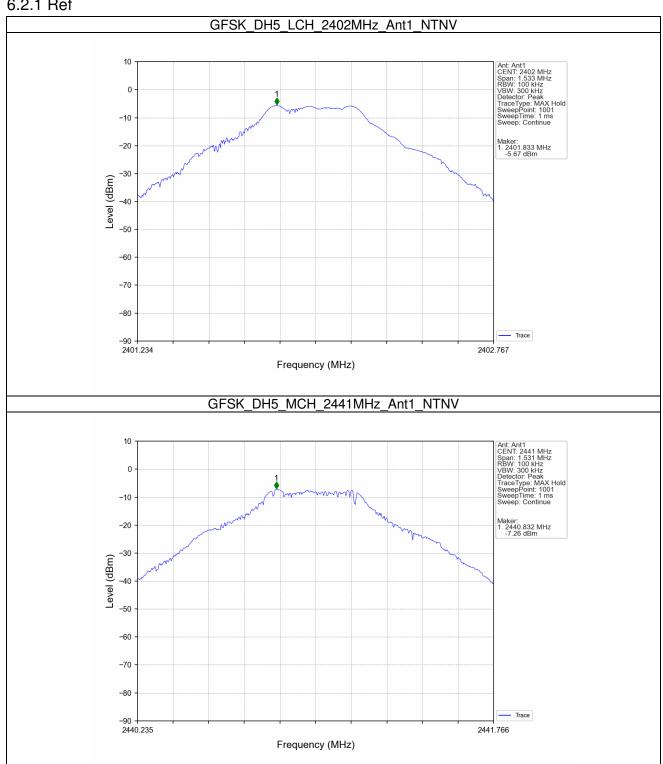


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#### 6.2 Test Graph

#### 6.2.1 Ref





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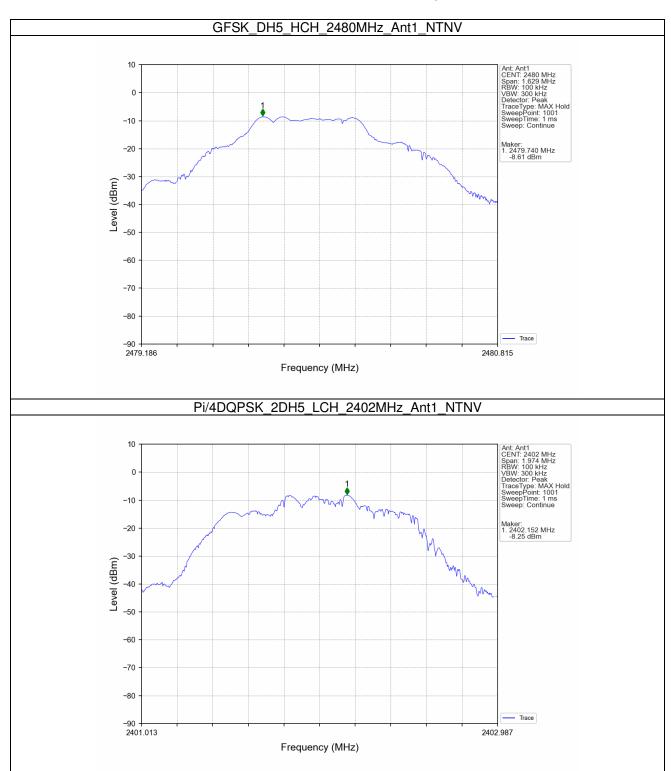
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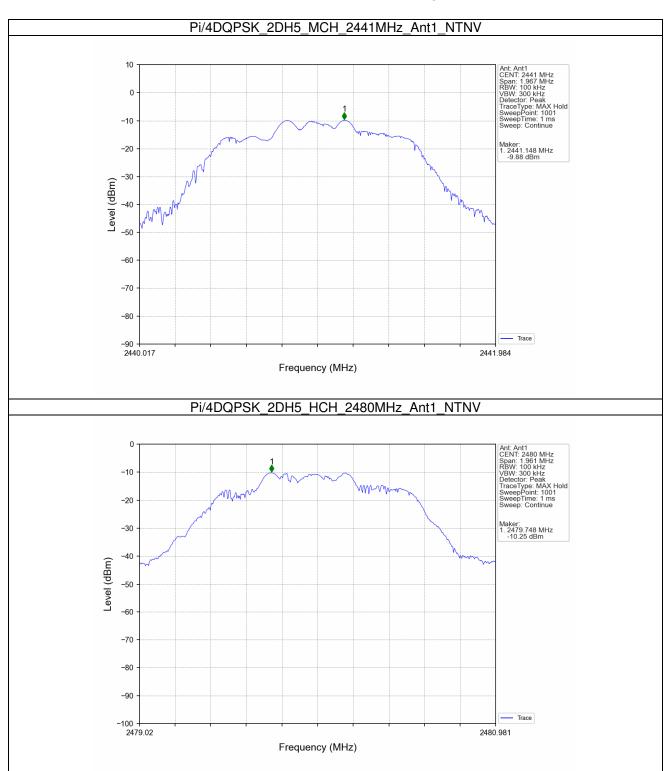
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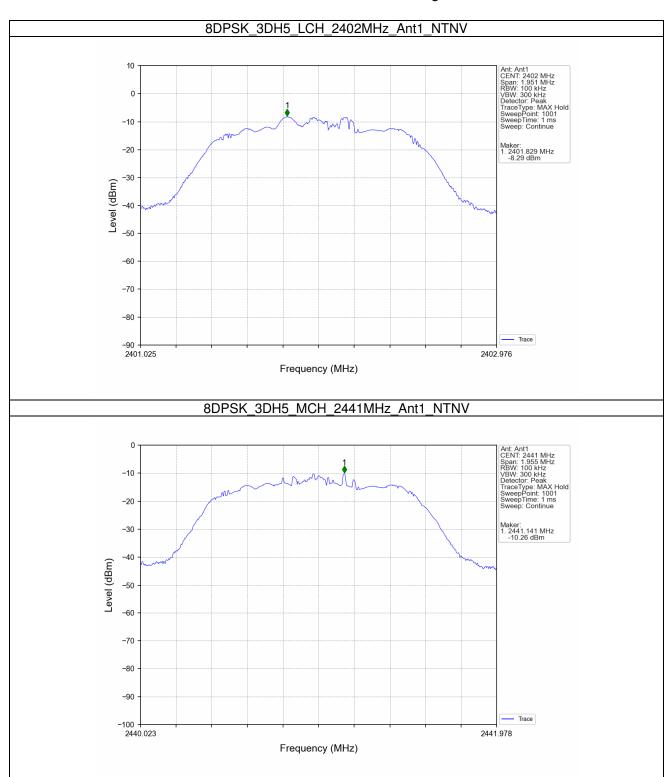
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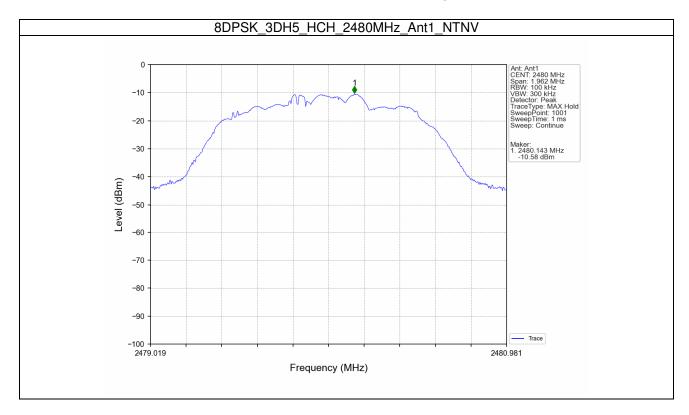
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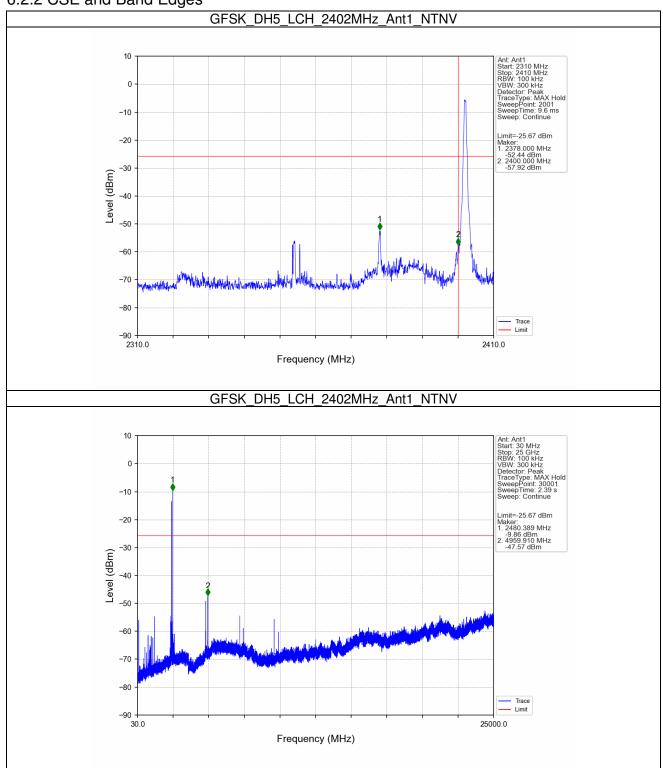




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#### 6.2.2 CSE and Band Edges





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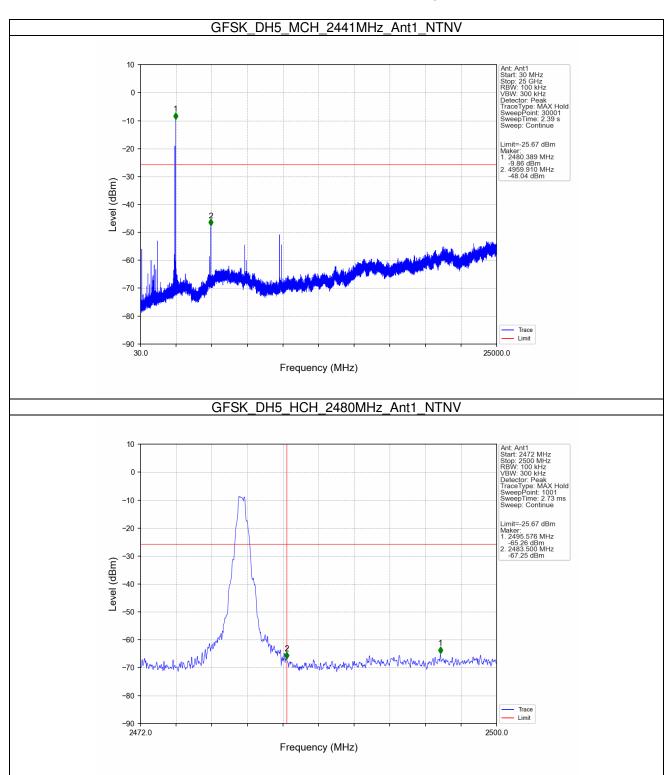
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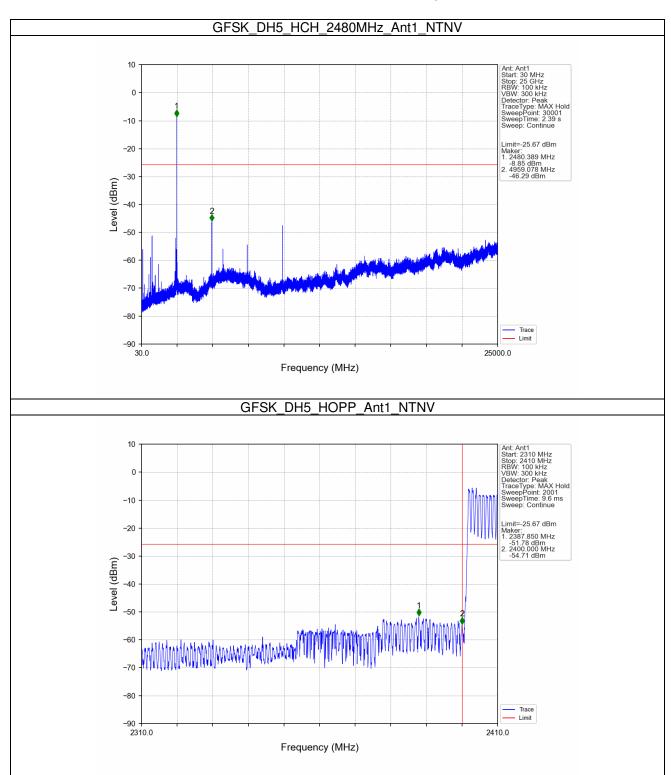
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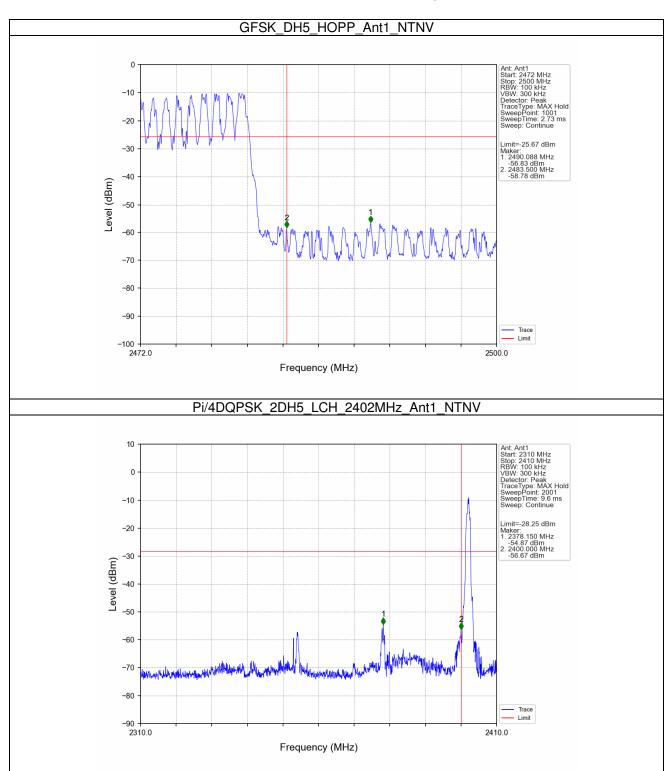
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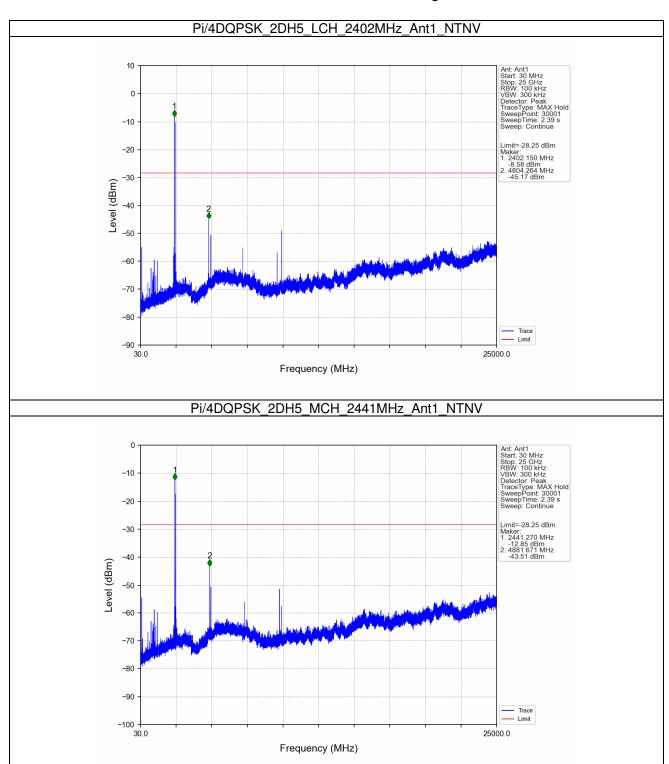
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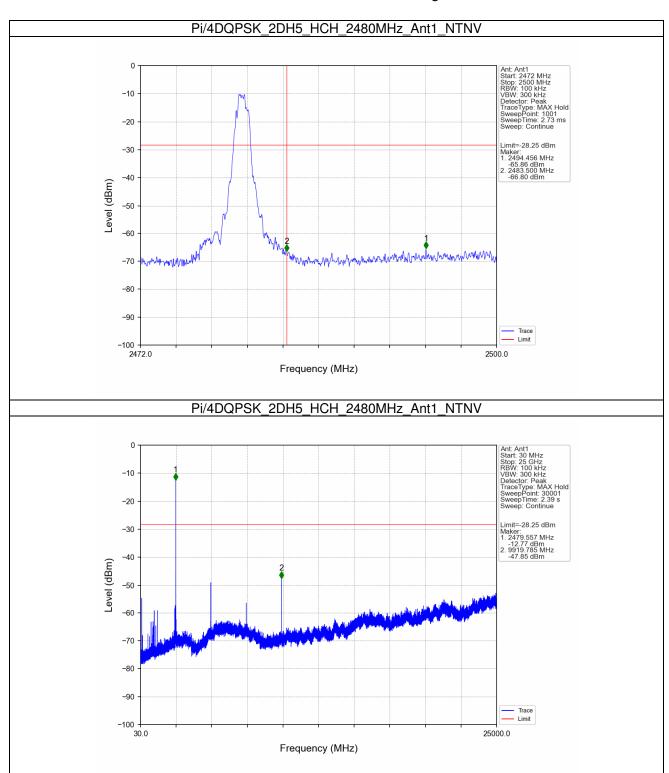
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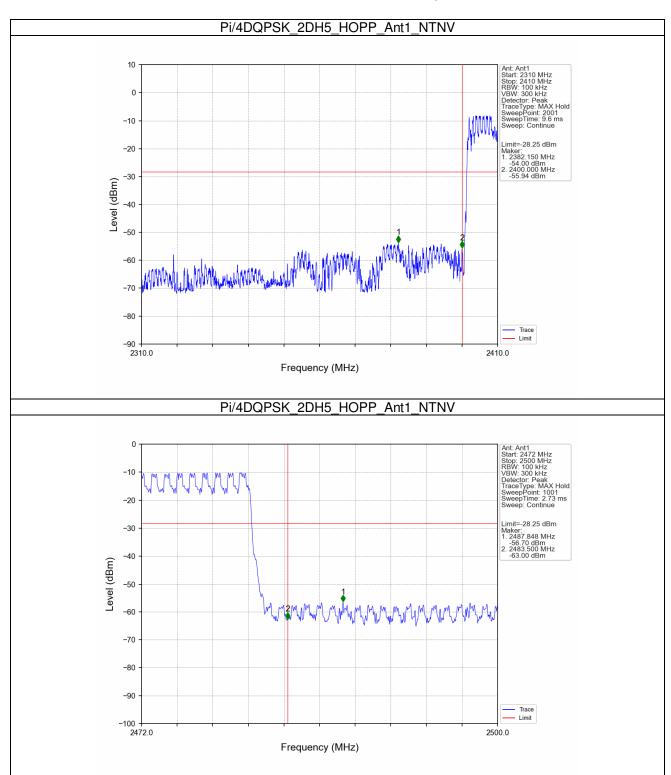
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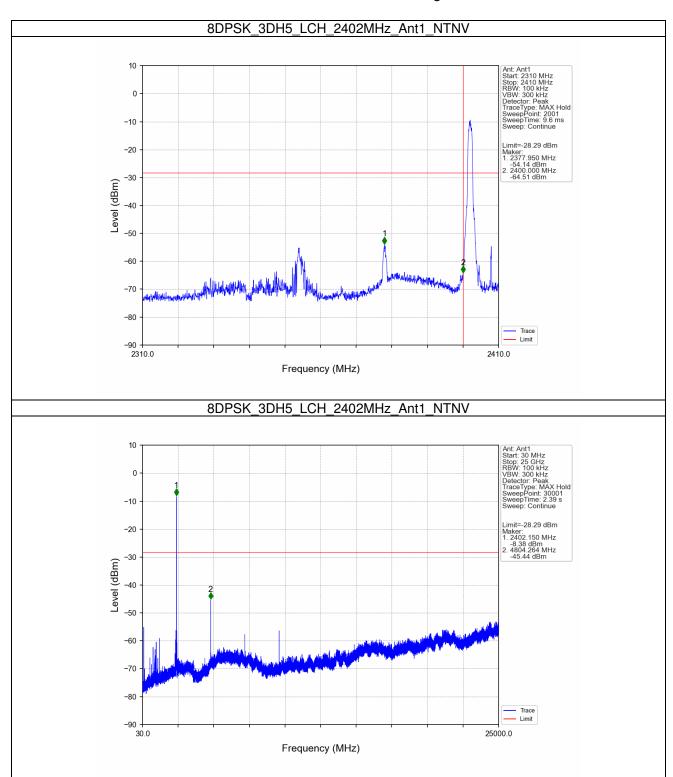
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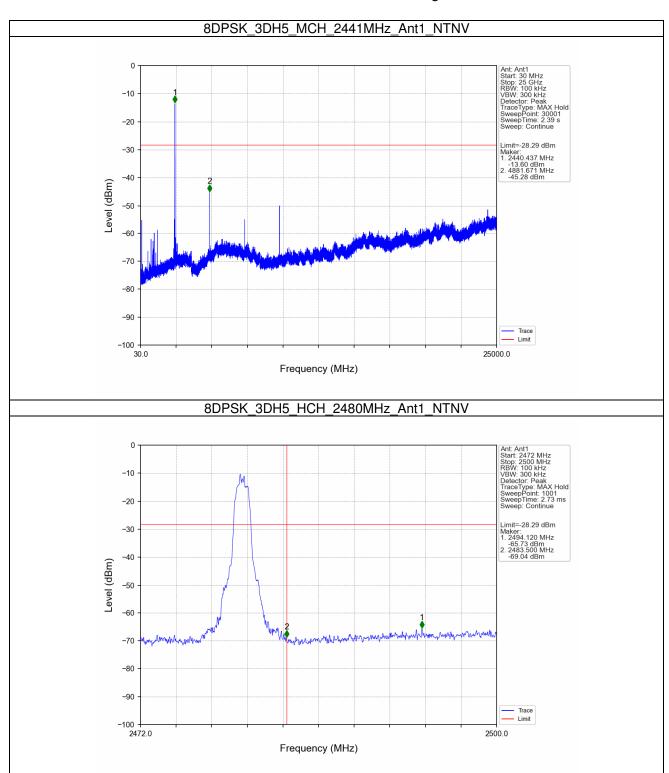
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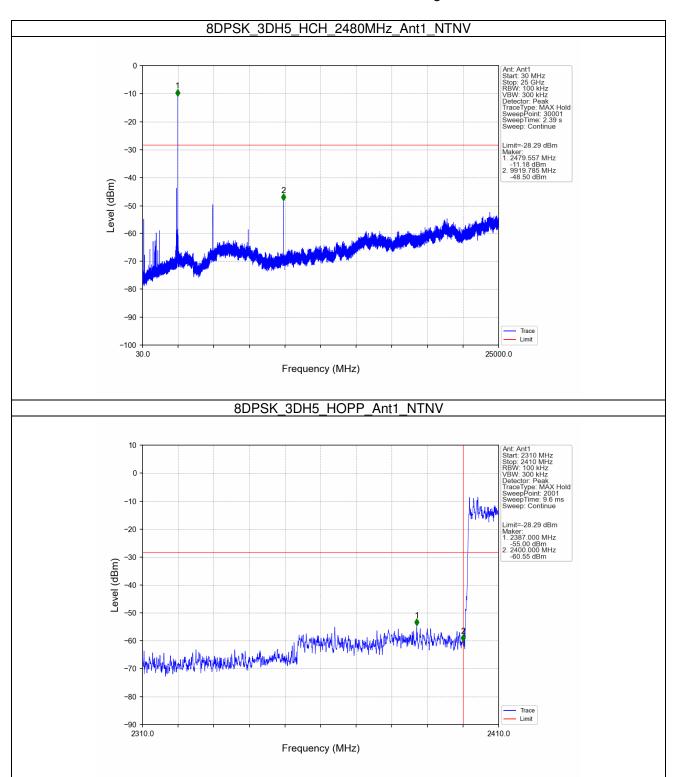
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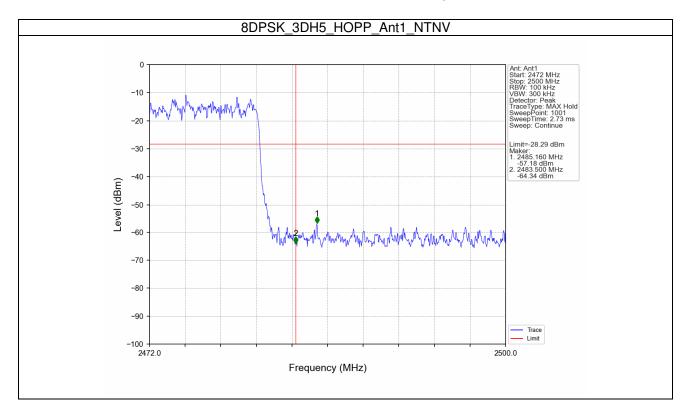
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7. Duty Cycle

7.1 Test Result

7.1.1 Ant1

Ant1								
Mode	TX	Frequency	Packet	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
	Type	(MHz)	Type	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
GFSK	SISO	2402	DH5	2.880	41.250	6.98	11.56	0.00
		2441	DH5	2.880	52.500	5.49	12.61	20.14
		2480	DH5	2.883	75.000	3.84	14.15	0.00



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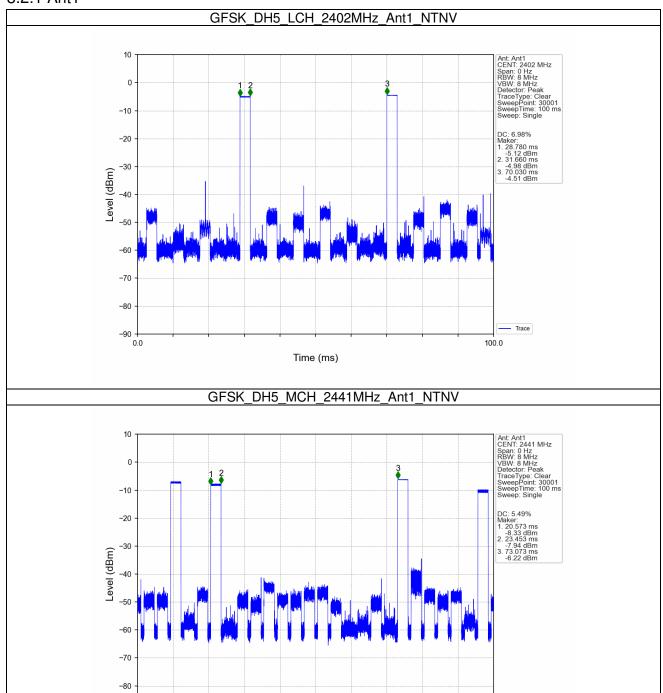


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#### 8.2 Test Graph

#### 8.2.1 Ant1





-90 0.0

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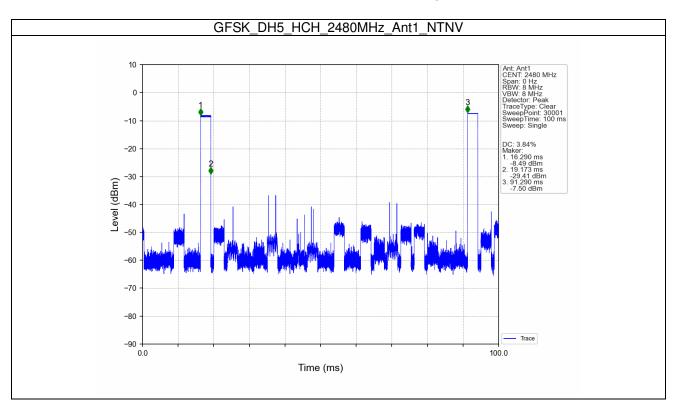
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