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## Appendix A for SHEM210600643701

#### 1. Bandwidth

#### 1.1 OBW

#### 1.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
		2402	DH5	1	0.973	/	Pass
GFSK	SISO	2441	DH5	1	0.969	/	Pass
		2480	DH5	1	0.969	/	Pass
	SISO	2402	2DH5	1	1.190	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.187	/	Pass
		2480	2DH5	1	1.195	/	Pass
8DPSK		2402	3DH5	1	1.204	/	Pass
	SISO	2441	3DH5	1 0.973 / F 1 0.969 / F 1 0.969 / F 1 1.190 / F 1 1.187 / F 1 1.195 / F 1 1.204 / F 1 1.196 / F			Pass
		2480	3DH5	1	1.193	/	Pass



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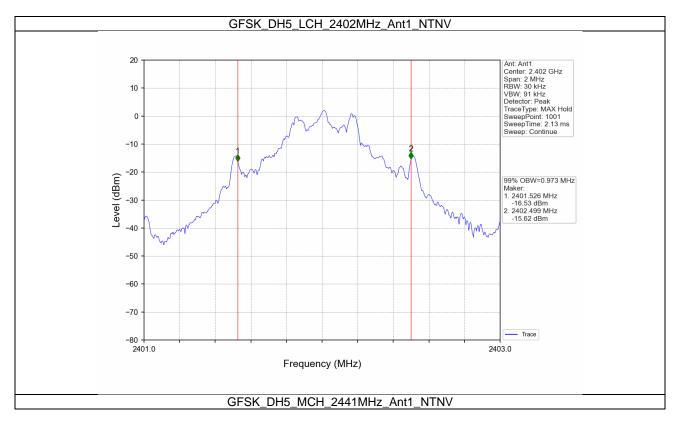
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## 1.1.2 Test Graph





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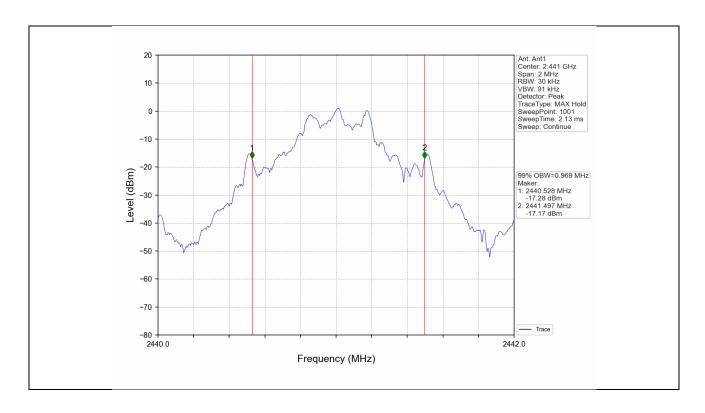
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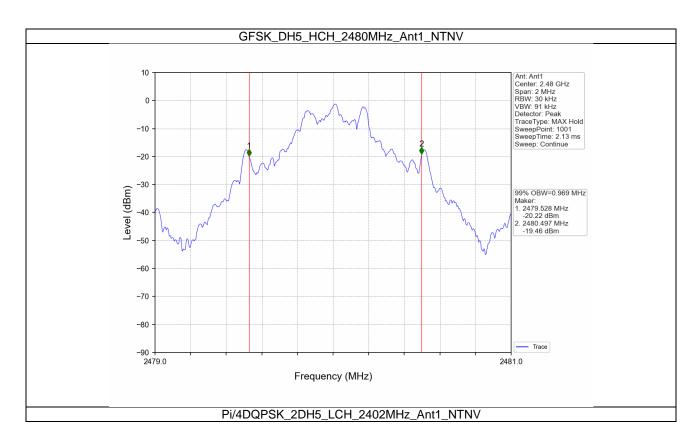
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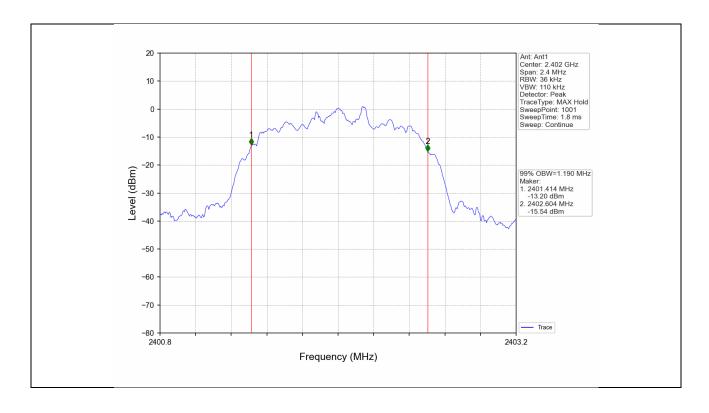
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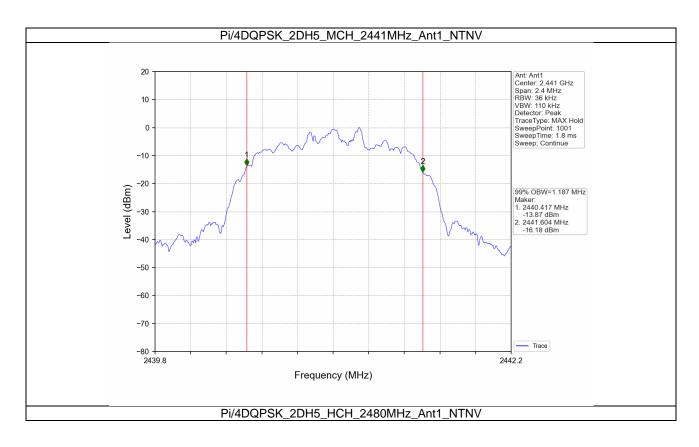
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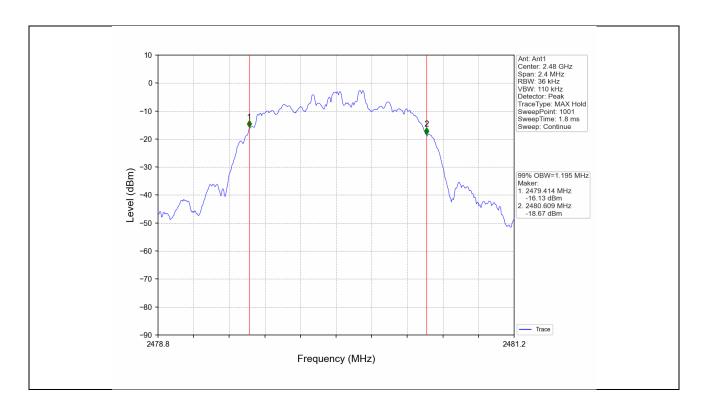
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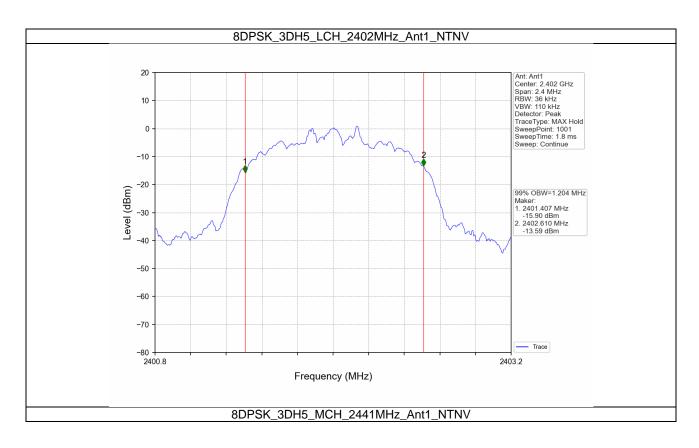
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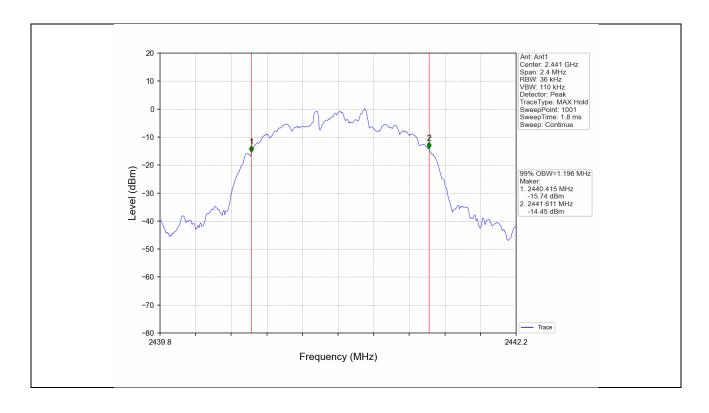
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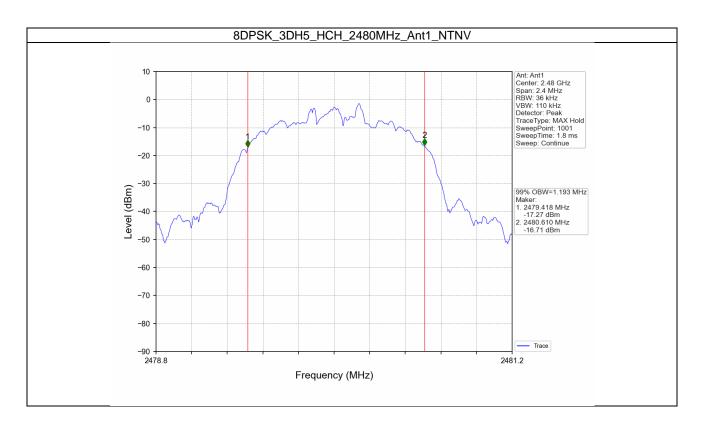
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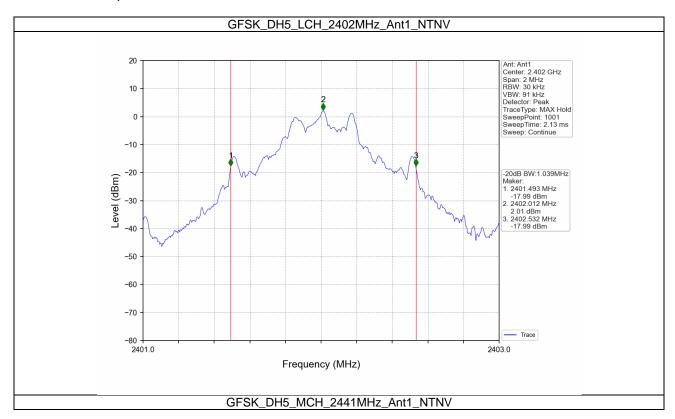
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#### 1.2 20dB BW

#### 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
	SISO	2402	DH5	1	1.039	/	Pass
GFSK		2441	DH5	1	1.040	/	Pass
		2480	DH5	1	1.039	/	Pass
	SISO	2402	2DH5	1	1.335	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.334	/	Pass
		2480	2DH5	1	1.335	/	Pass
	SISO	2402	3DH5	1	1.317	/	Pass
8DPSK		2441	3DH5	1	1.310	/	Pass
		2480	3DH5	1	1.310	/	Pass

#### 1.2.2 Test Graph





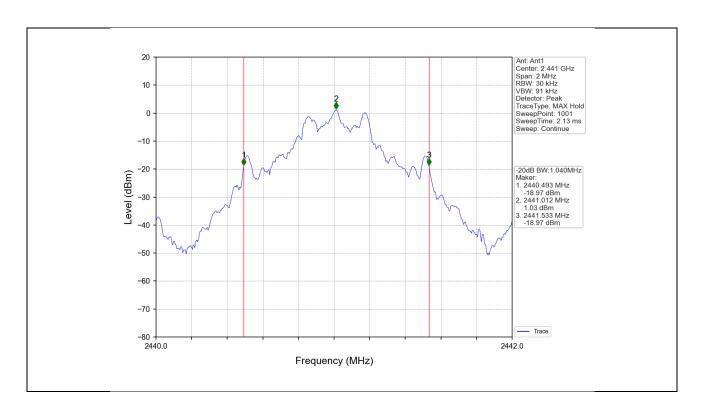
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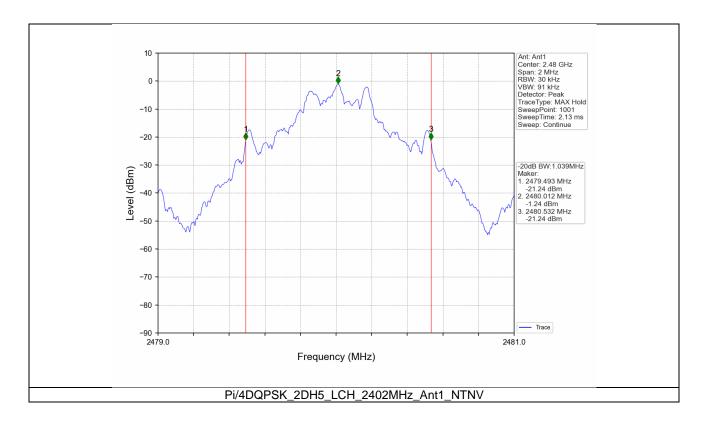
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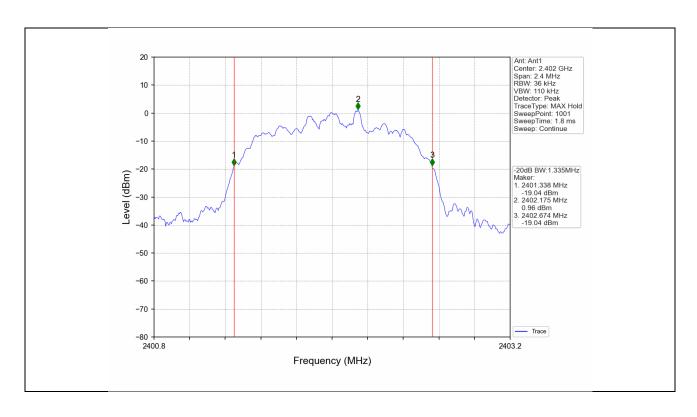
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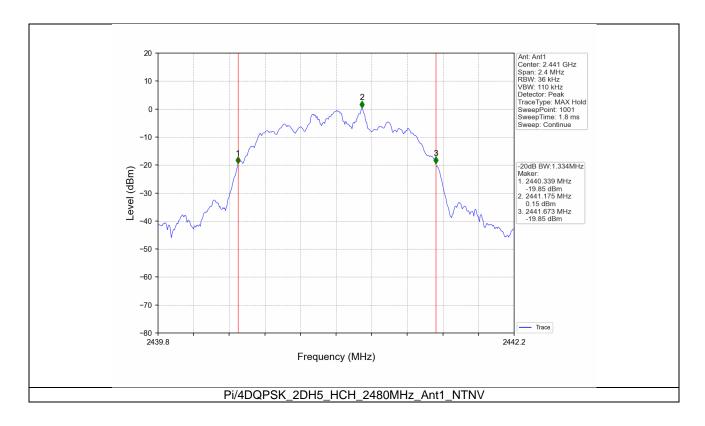
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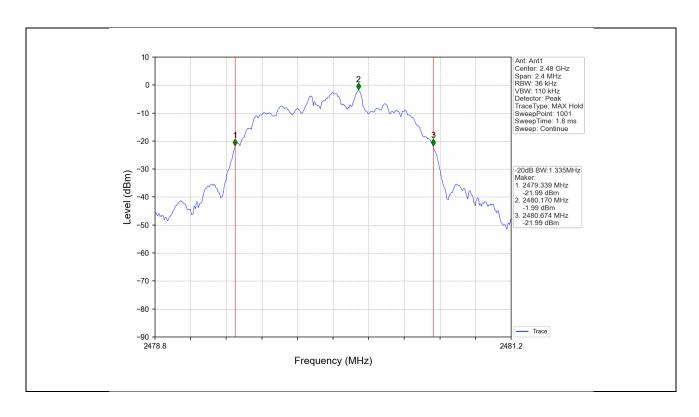
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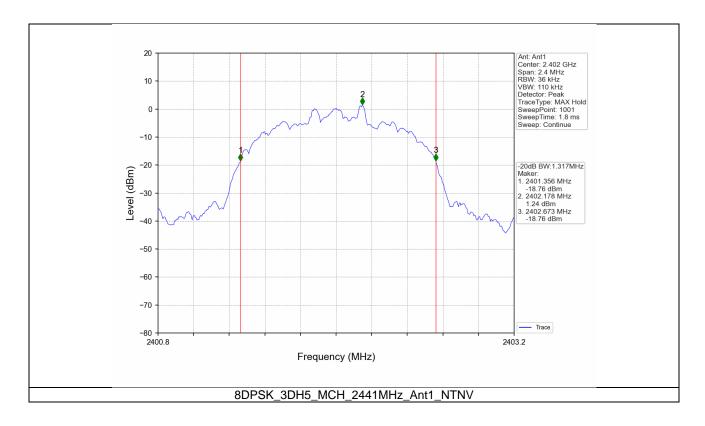
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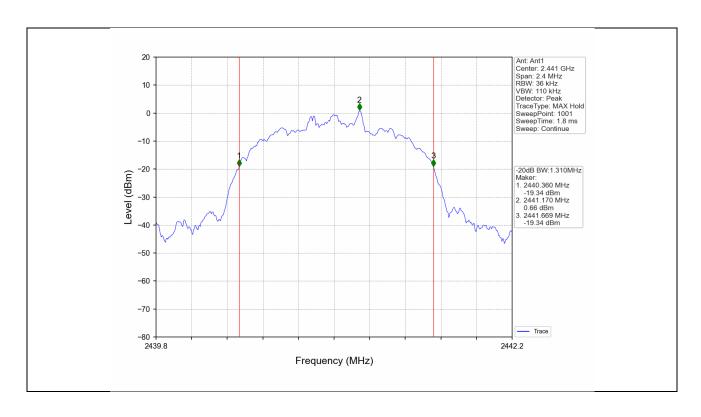
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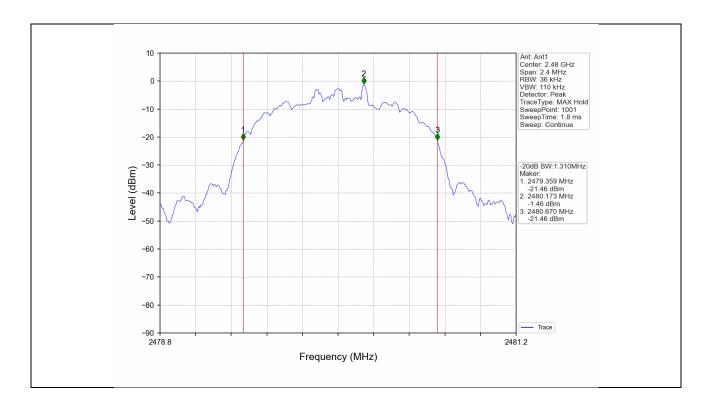
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### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Fraguerov (MHz)	Packet	Verdict		
		Frequency (MHz)	Type	Ant1	Limit	verdict
		2402	DH5	2.18	<=20.97	Pass
GFSK	SISO	2441	DH5	1.18	<=20.97	Pass
		2480	DH5	-1.10	<=20.97	Pass
	SISO	2402	2DH5	3.83	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	3.03	<=20.97	Pass
		2480	2DH5	1.06	<=20.97	Pass
8DPSK		2402	3DH5	4.35	<=20.97	Pass
	SISO	SISO 2441 3DH5 3.59	3.59	<=20.97	Pass	
		2480	3DH5	1.64	<=20.97	Pass

#### 2.1.2 Test Graph

GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



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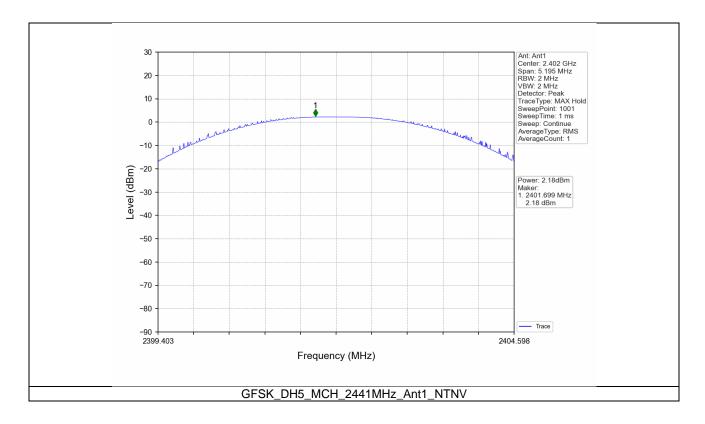
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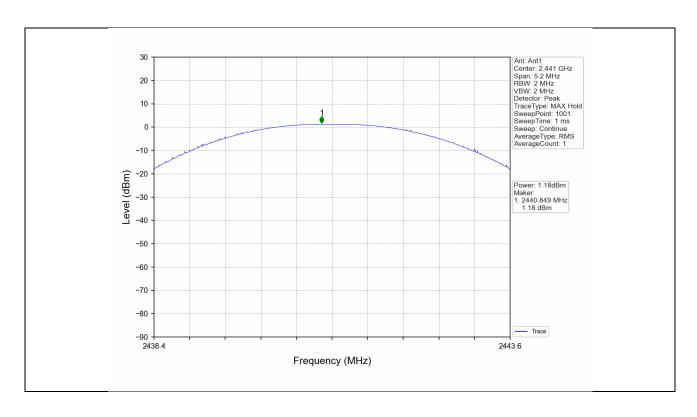
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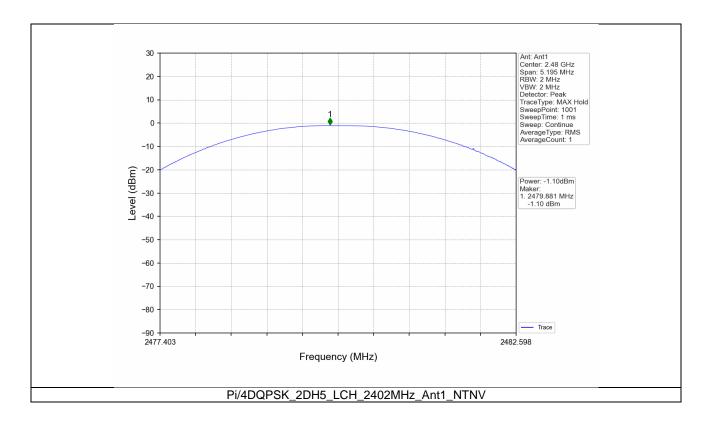
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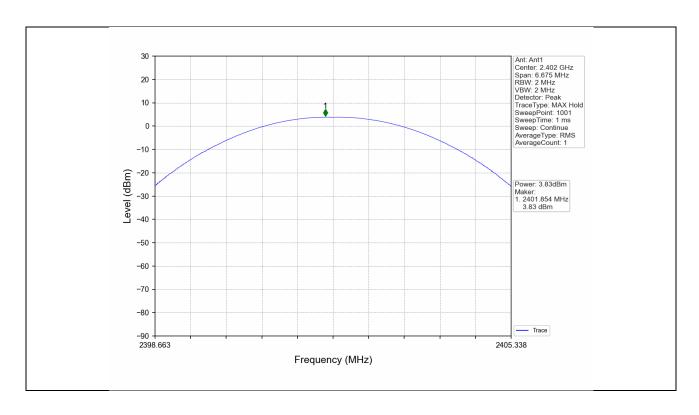
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#### Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



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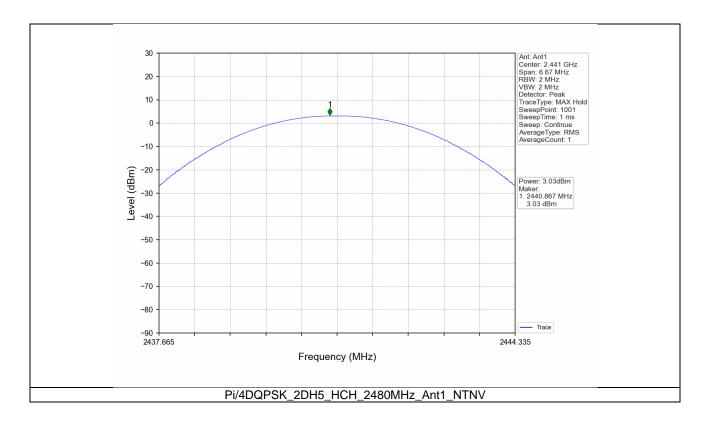
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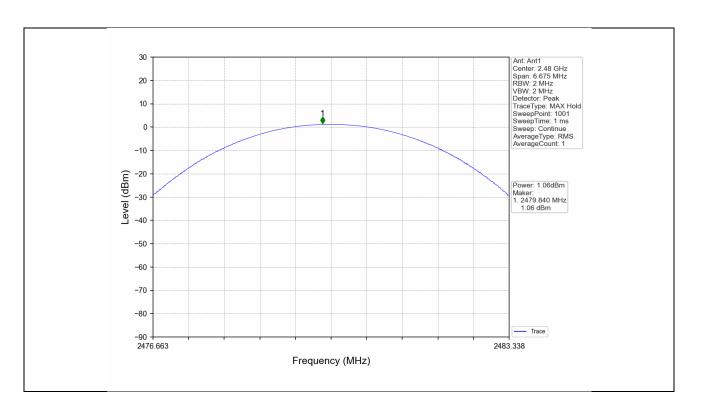
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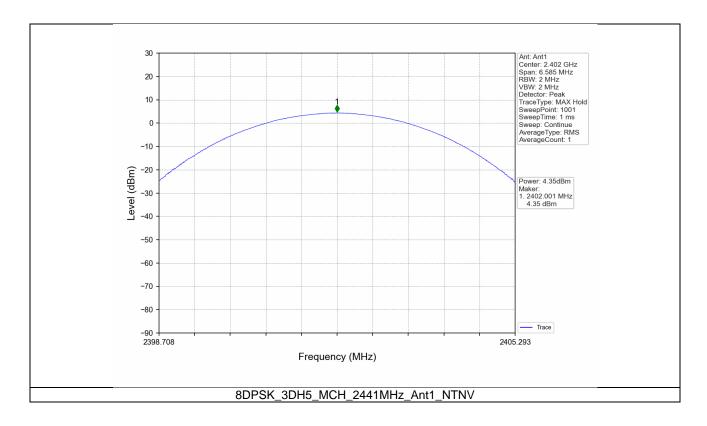
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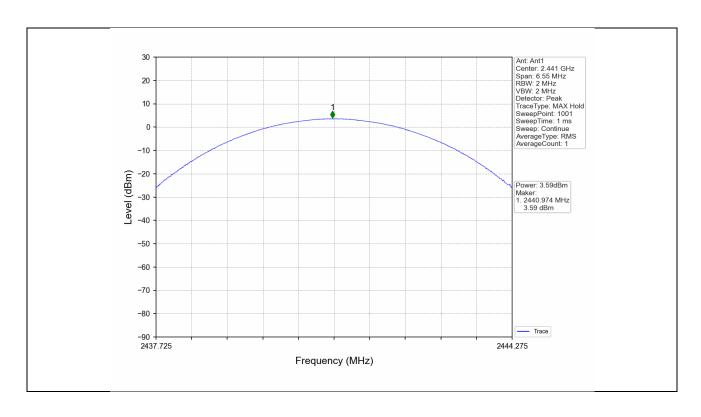
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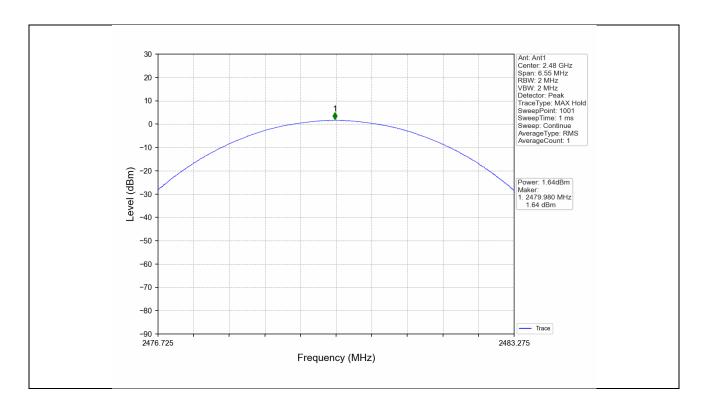
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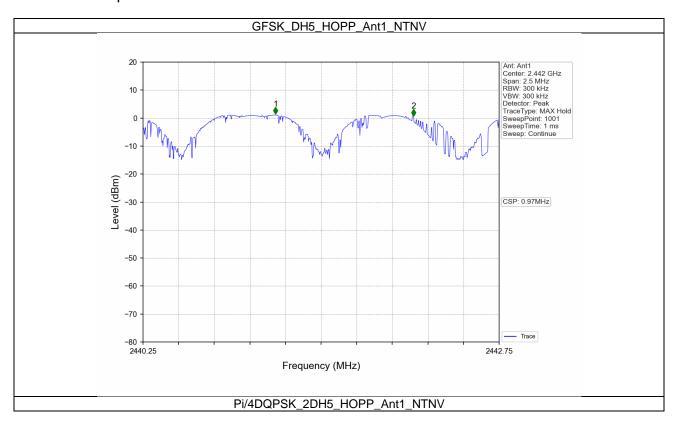
## 3. Carrier Frequency Separation

#### 3.1 Ant1

#### 3.1.1 Test Result

Ant1								
Mode	TX Frequency		Packet Channel Separation		20dB Bandwidth	Limit (MHz)	Verdict	
iviode	Type	(MHz)	Type	(MHz)	(MHz)	LITTIL (IVII 12)	verdict	
GFSK	SISO	HOPP	DH5	0.97	1.04	>=0.693	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	0.99	1.33	>=0.89	Pass	
8DPSK	SISO	HOPP	3DH5	1.00	1.31	>=0.873	Pass	

#### 3.1.2 Test Graph





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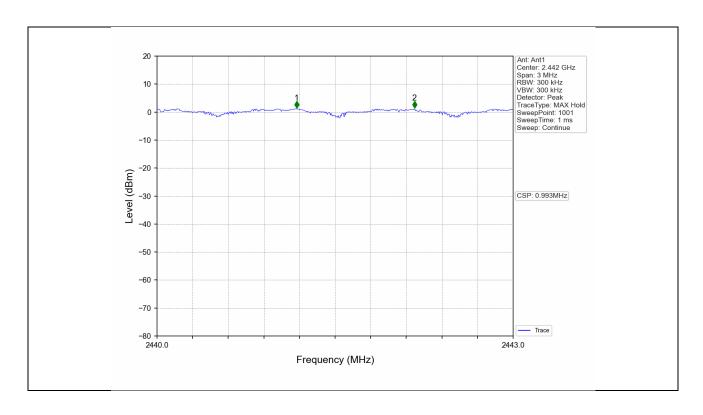
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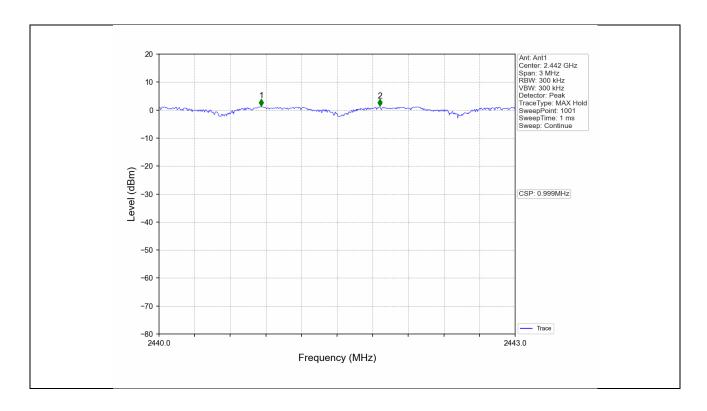
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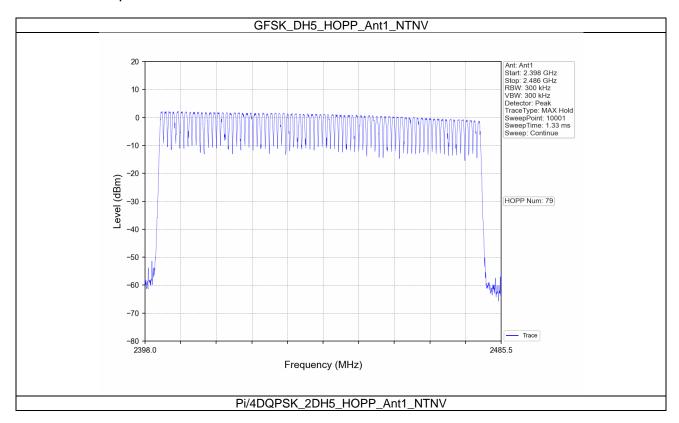
### 4. Number of Hopping Frequencies

#### 4.1 HoppNum

#### 4.1.1 Test Result

Mode	TV Type	pe Frequency (MHz) Packet Type Num of Hopping Frequencies		ng Frequencies	Verdict	
	TX Type	Frequency (MHz)	racket 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

#### 4.1.2 Test Graph





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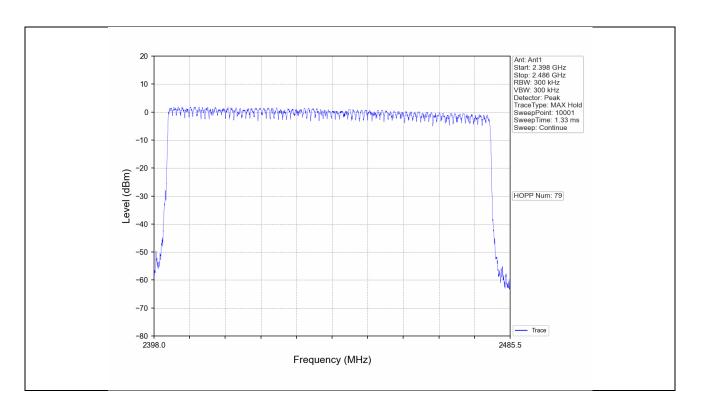
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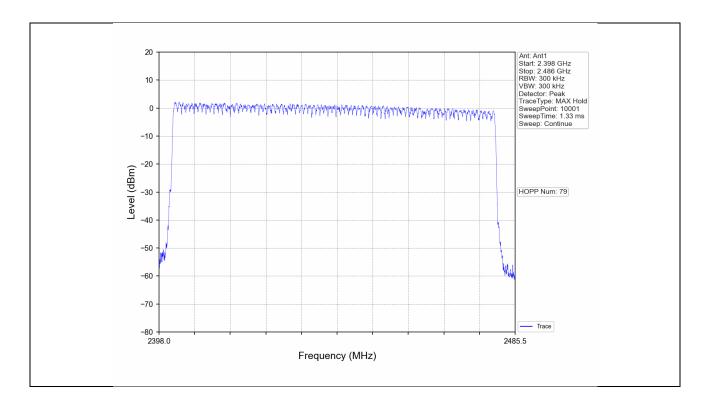
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### 5. Time of Occupancy (Dwell Time)

#### 5.1 Ant1

#### 5.1.1 Test Result

Ant1									
Mode	TX	Frequency	Packet	Duration of Single	Observation	Num of Pulse in	<b>Dwell Time</b>	Limit	Verdict
Mode	Type	(MHz)	Type	Pulse (ms)	Period (s)	Observation Period	(ms)	(ms)	verdict
		НОРР	DH1	0.388	31.600	320	124.160	<=400	Pass
GFSK S	SISO		DH3	1.644	31.600	117	192.348	<=400	Pass
			DH5	2.892	31.600	59	170.628	<=400	Pass
		HOPP	2DH1	2.894	31.600	57	164.958	<=400	Pass
Pi/4DQPSK	SISO		2DH3	1.646	31.600	89	146.494	<=400	Pass
			2DH5	2.926	31.600	63	184.338	<=400	Pass
8DPSK		ISO HOPP	3DH1	0.394	31.600	319	125.686	<=400	Pass
	SISO		3DH3	1.644	31.600	103	169.332	<=400	Pass
			3DH5	2.896	31.600	68	196.928	<=400	Pass

#### 5.1.2 Test Graph

GFSK\_DH1\_HOPP\_Ant1\_NTNV



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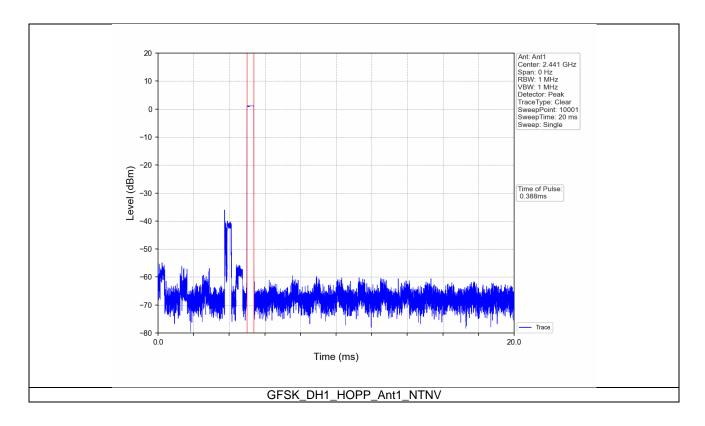
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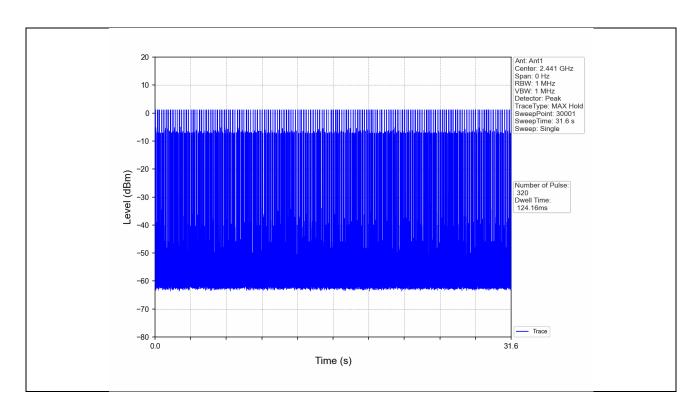
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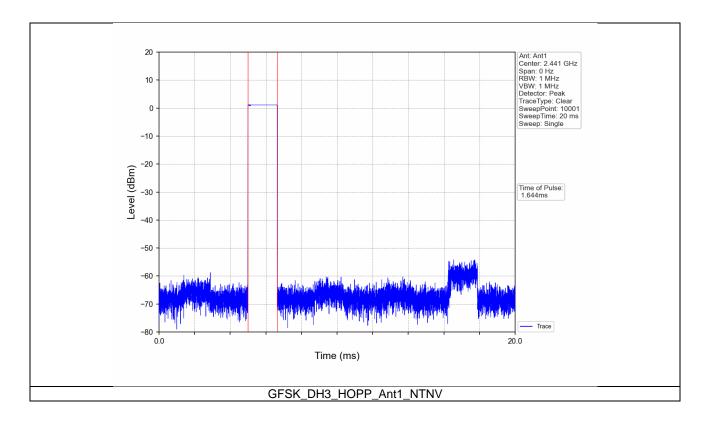
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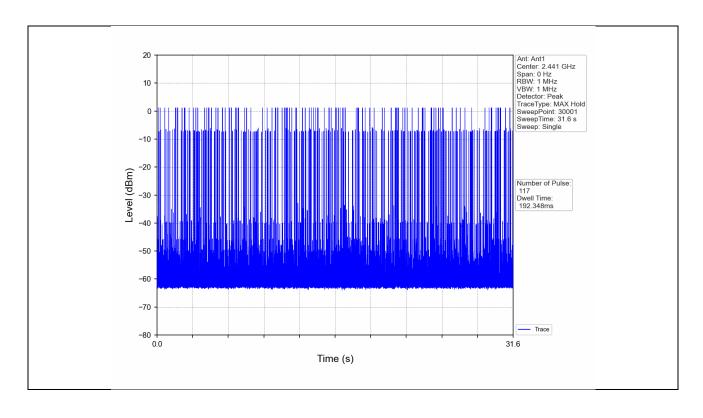
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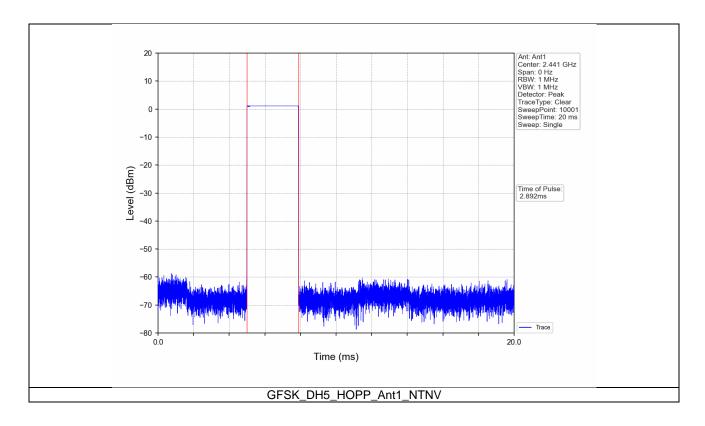
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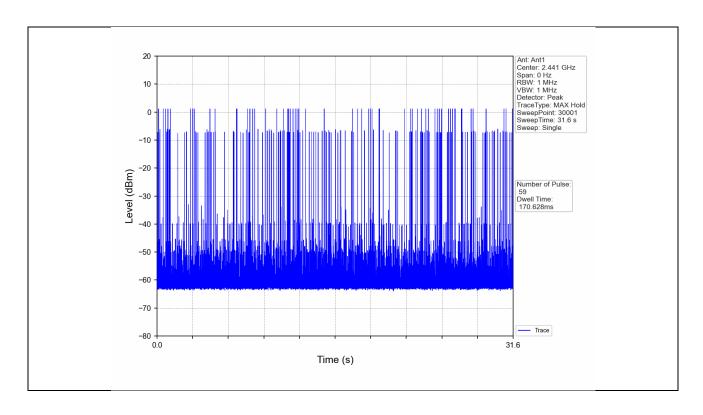
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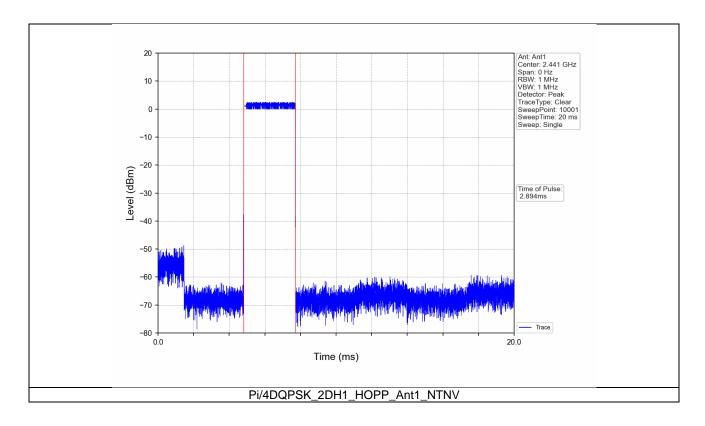
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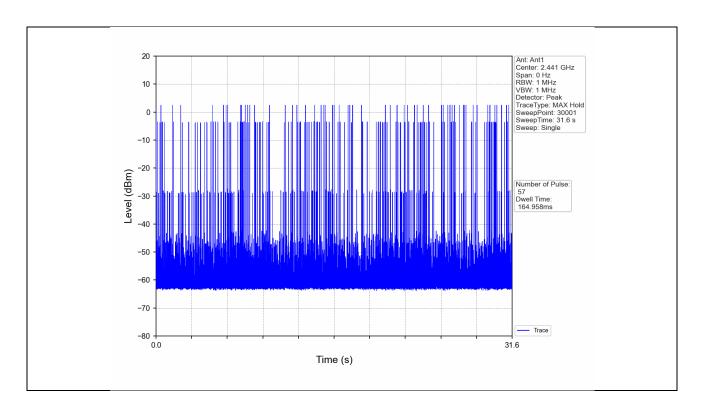
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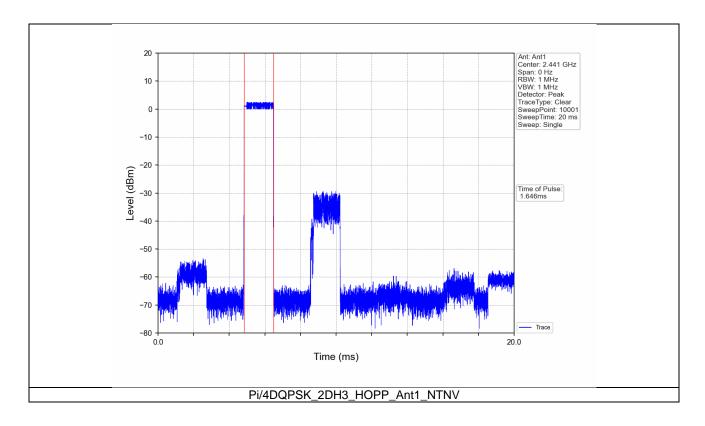
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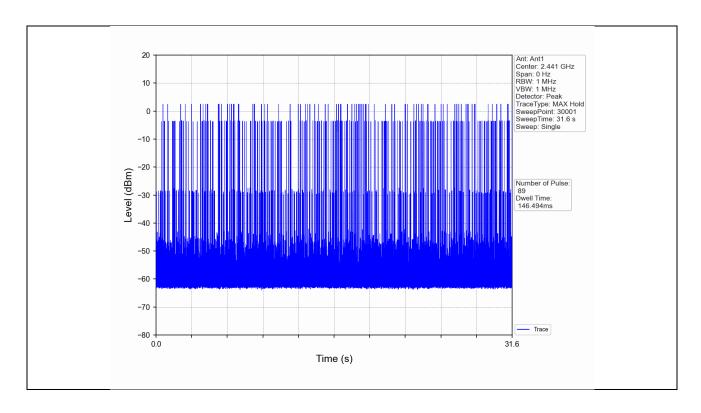
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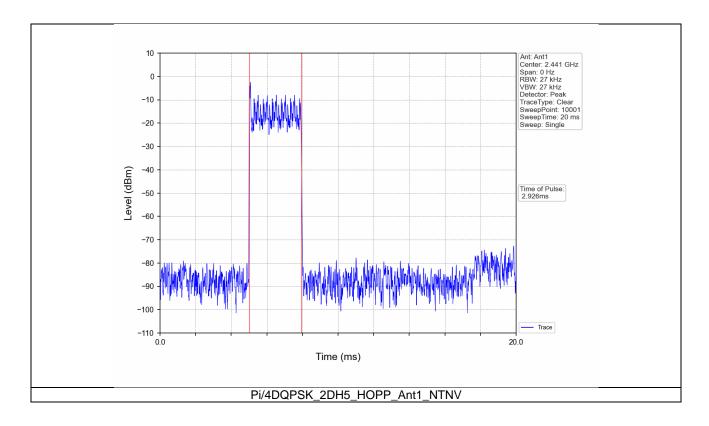
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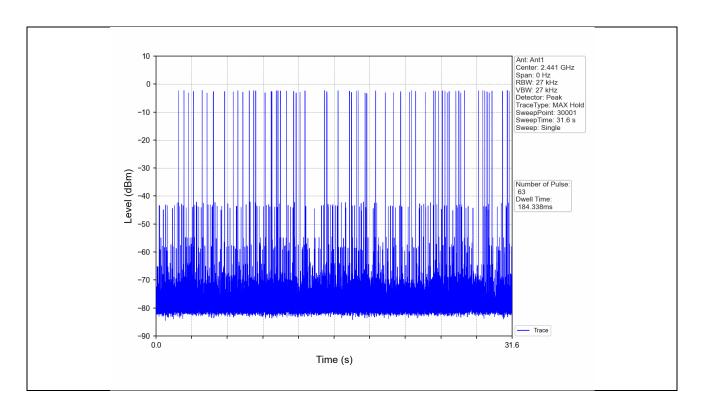
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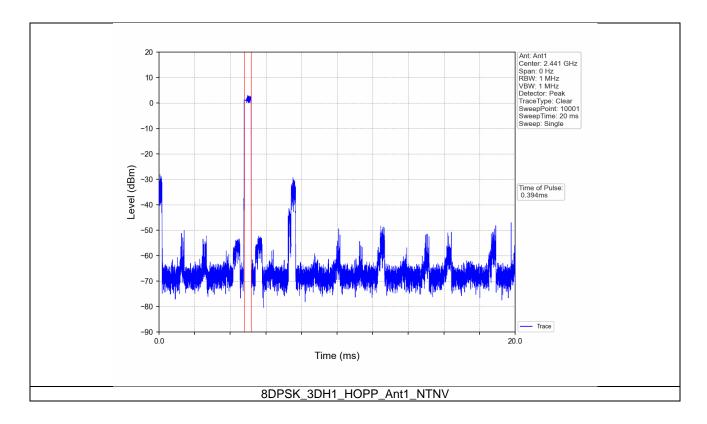
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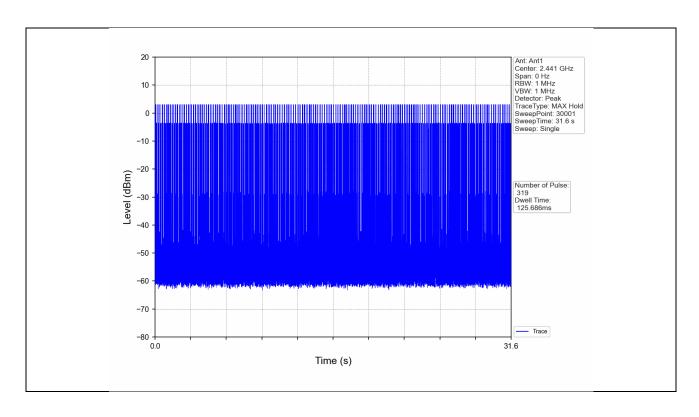
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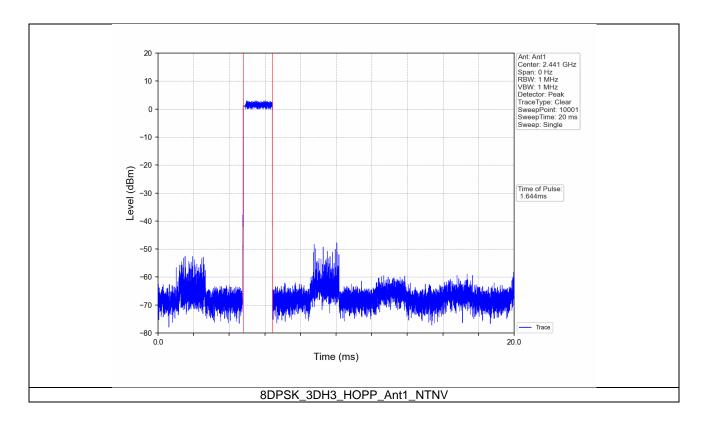
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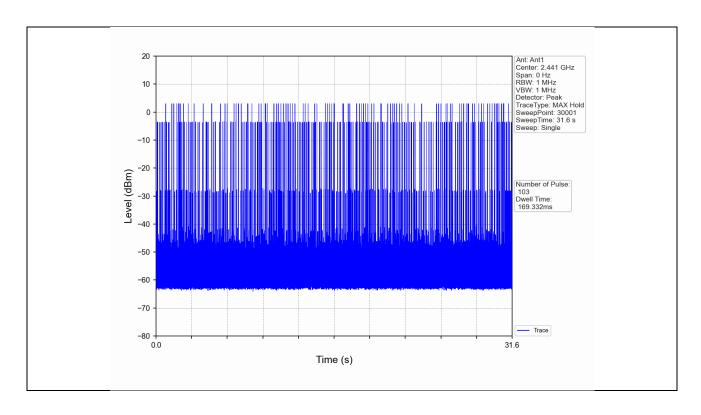
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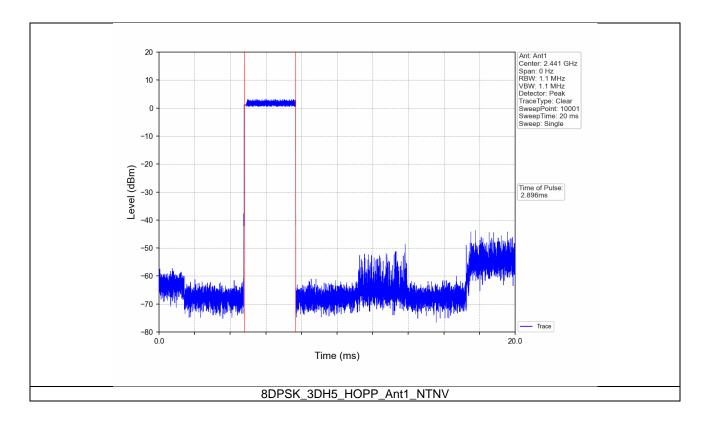
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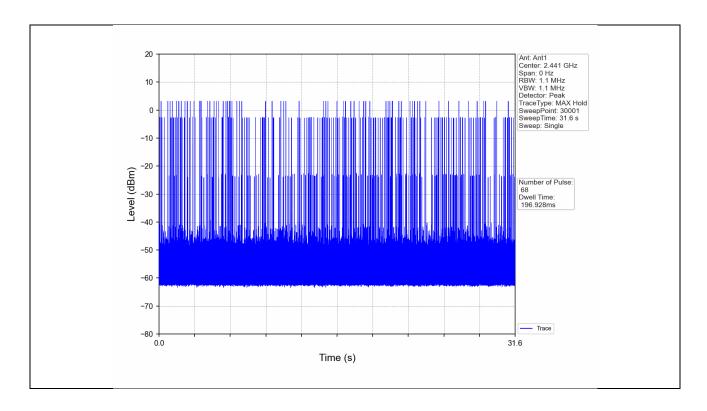
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# 6. Unwanted Emissions In Non-restricted Frequency Bands

#### 6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK		2402	DH5	1	2.14
	SISO	2441	DH5	1	1.12
		2480	DH5	1	-1.13
Pi/4DQPSK	SISO	2402	2DH5	1	2.05
		2441	2DH5	1	1.11
		2480	2DH5	1	-1.01
8DPSK	SISO	2402	3DH5	1	2.05
		2441	3DH5	1	1.20
		2480	3DH5	1	-0.97

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

GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



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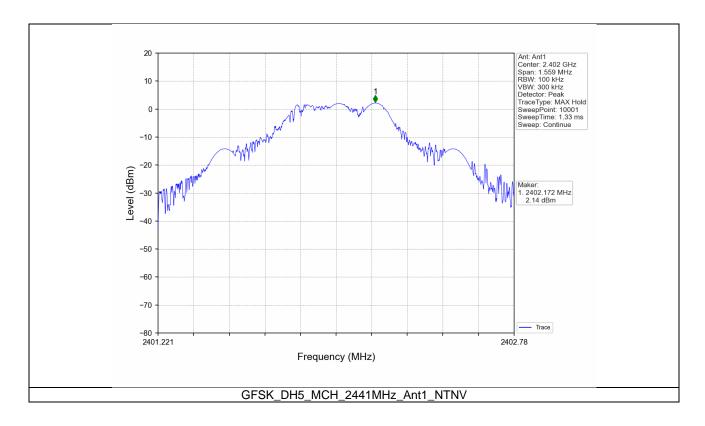
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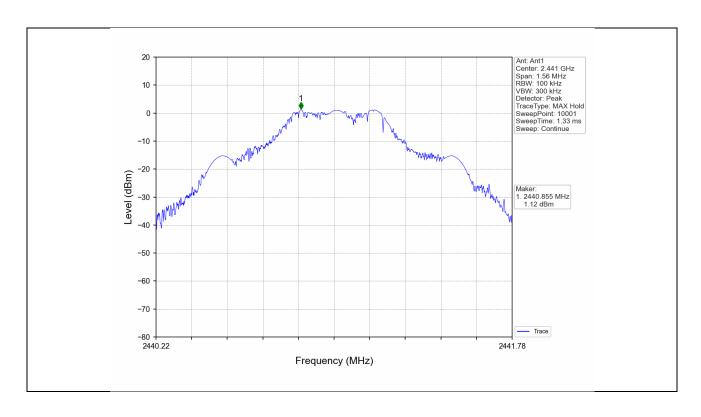
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#### GFSK DH5 HCH 2480MHz Ant1 NTNV



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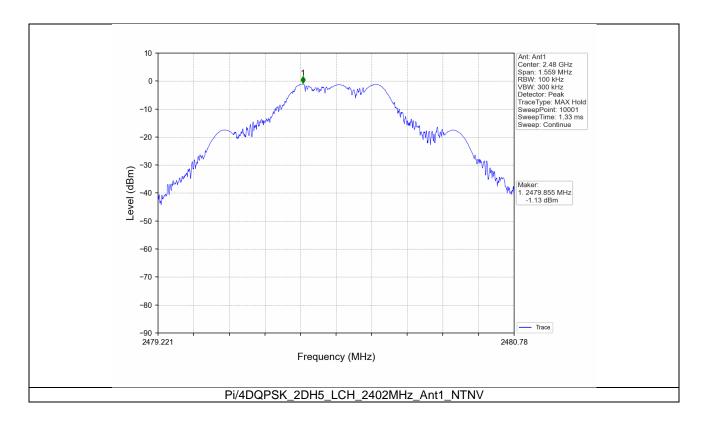
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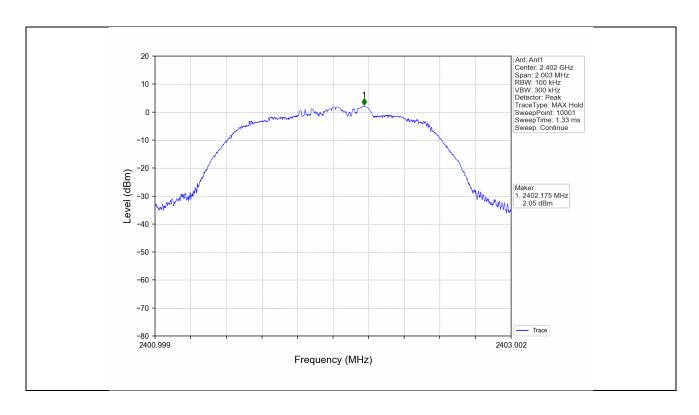
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#### Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



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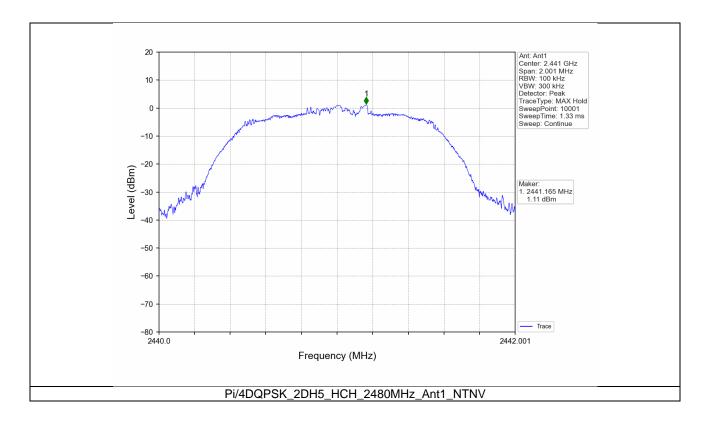
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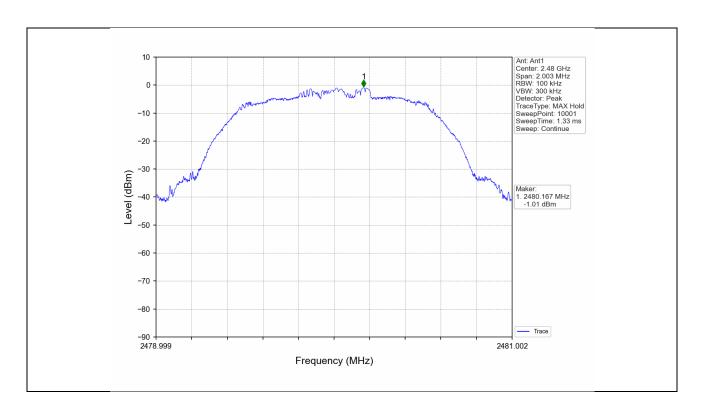
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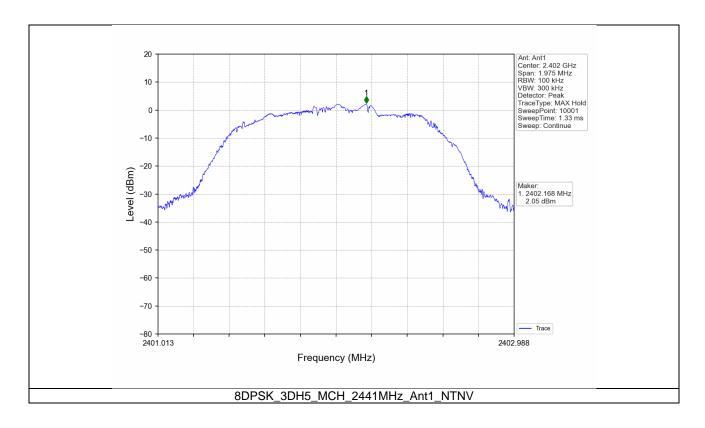
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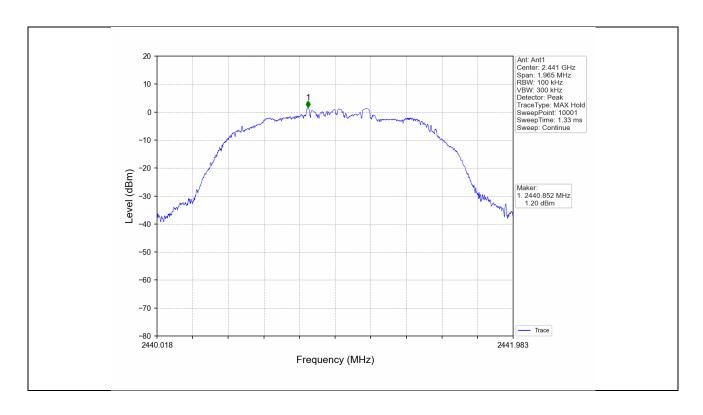
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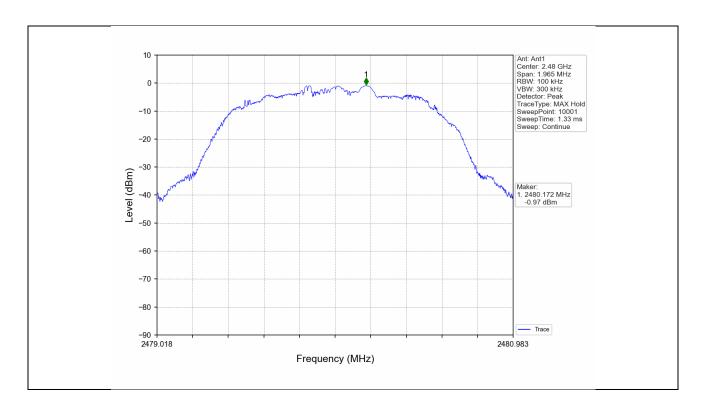
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#### 6.2 CSE

#### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.14	-17.86	Pass
		2441	DH5	1	2.14	-17.86	Pass
		2480	DH5	1	2.14	-17.86	Pass
		HOPP	DH5	1	2.14	-17.86	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.05	-17.95	Pass
		2441	2DH5	1	2.05	-17.95	Pass
		2480	2DH5	1	2.05	-17.95	Pass
		HOPP	2DH5	1	2.05	-17.95	Pass
8DPSK	SISO -	2402	3DH5	1	2.05	-17.95	Pass
		2441	3DH5	1	2.05	-17.95	Pass
		2480	3DH5	1	2.05	-17.95	Pass
		HOPP	3DH5	1	2.05	-17.95	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

GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



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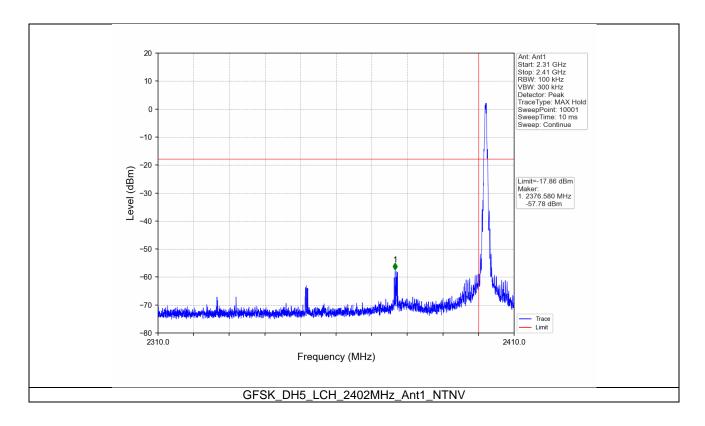
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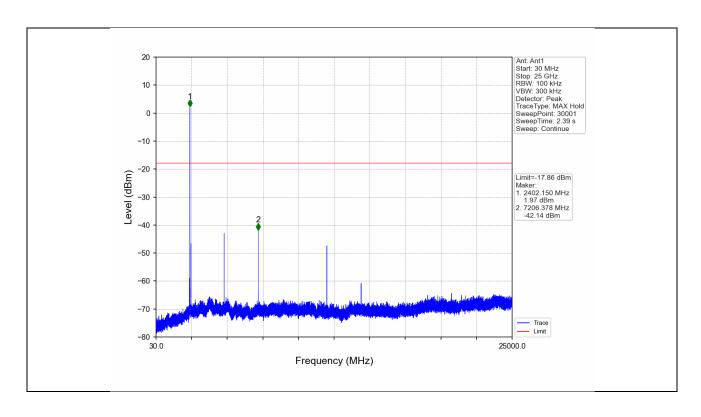
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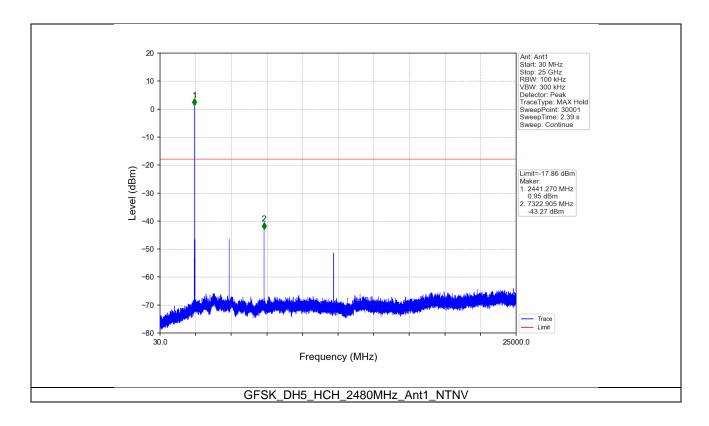
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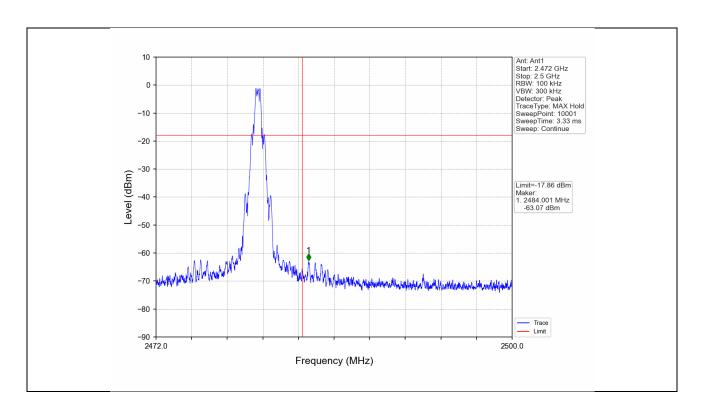
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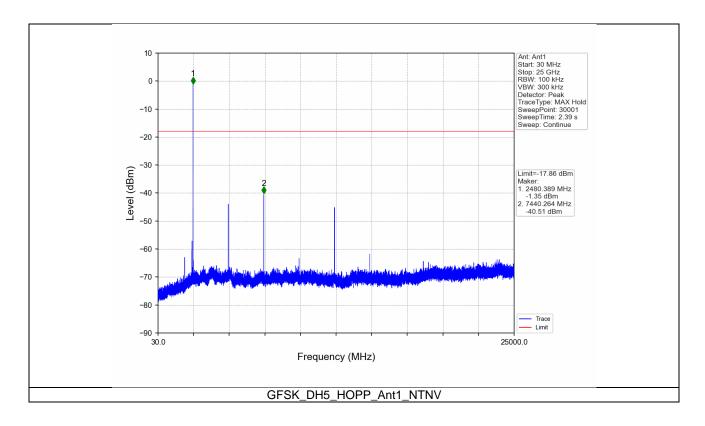
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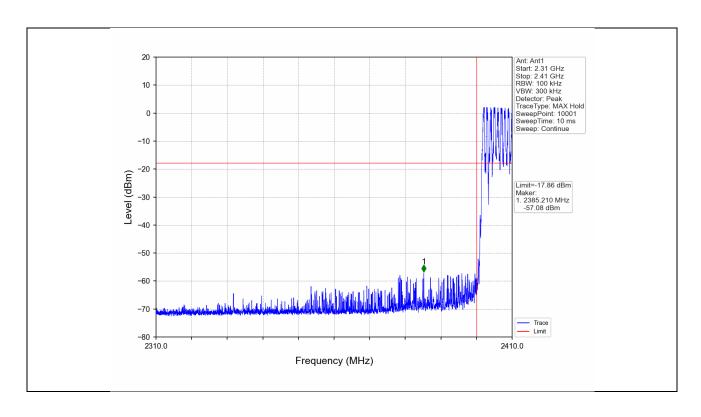
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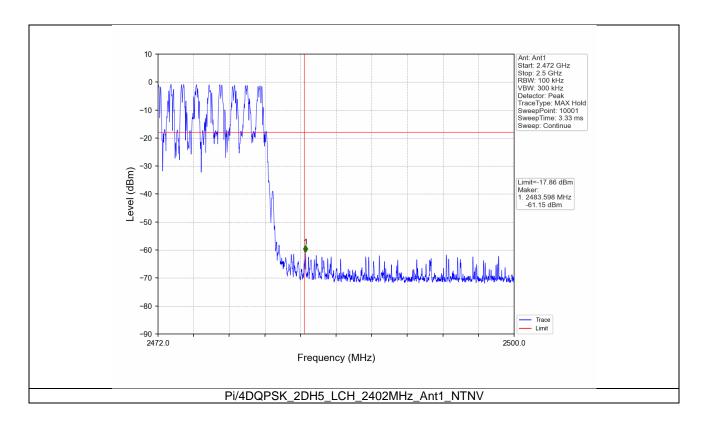
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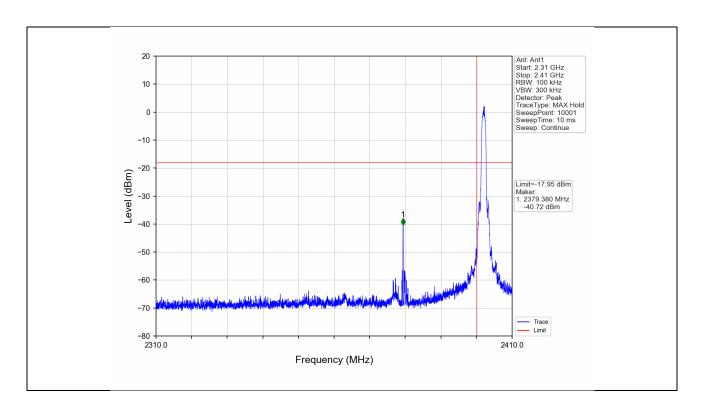
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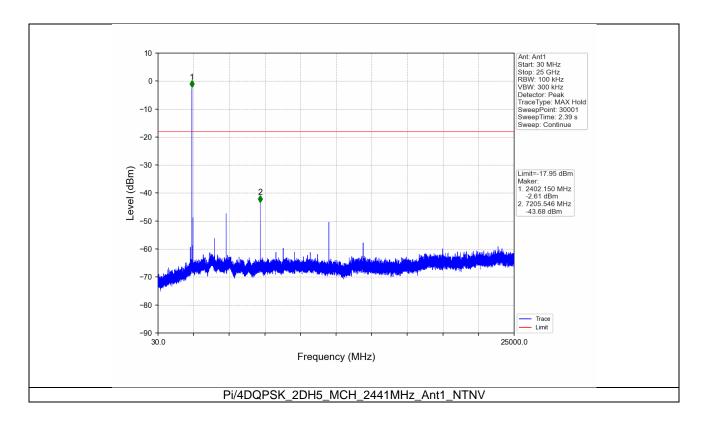
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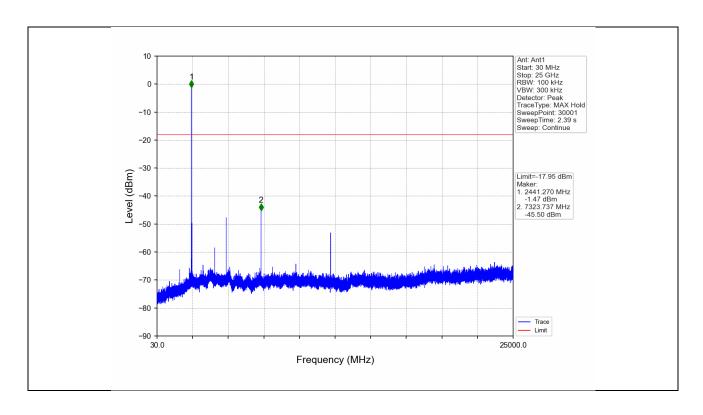
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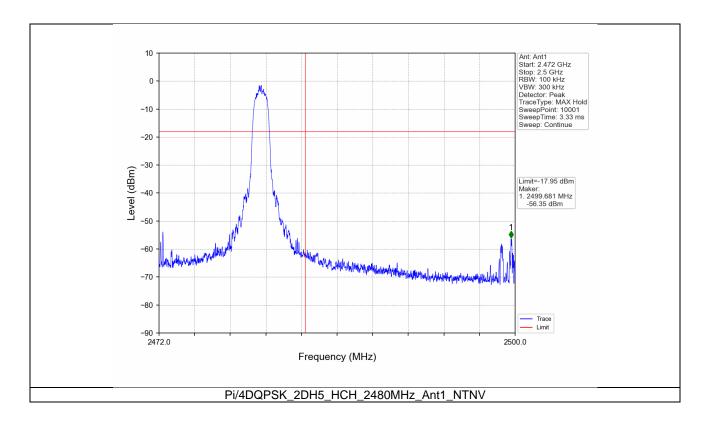
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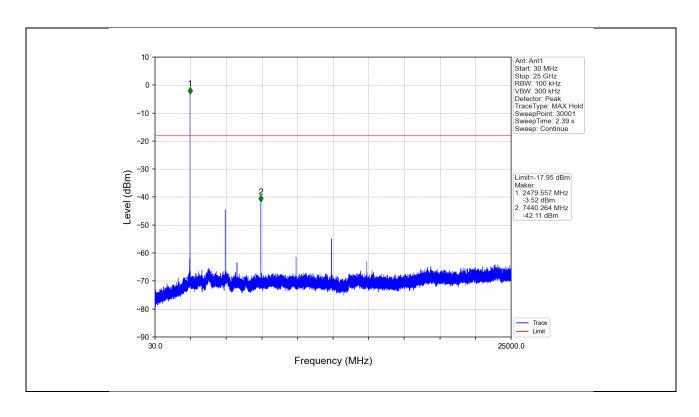
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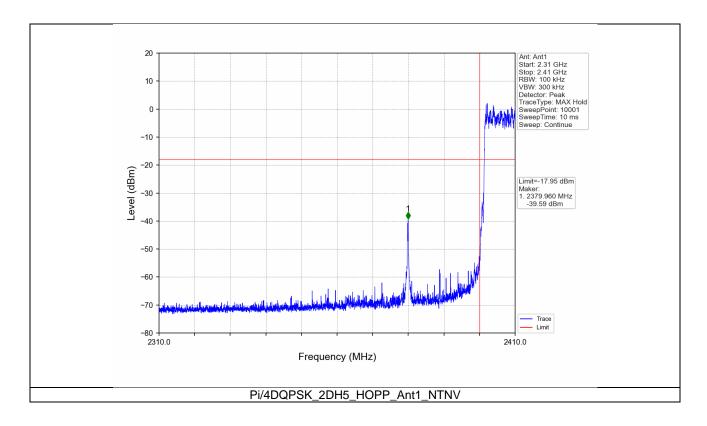
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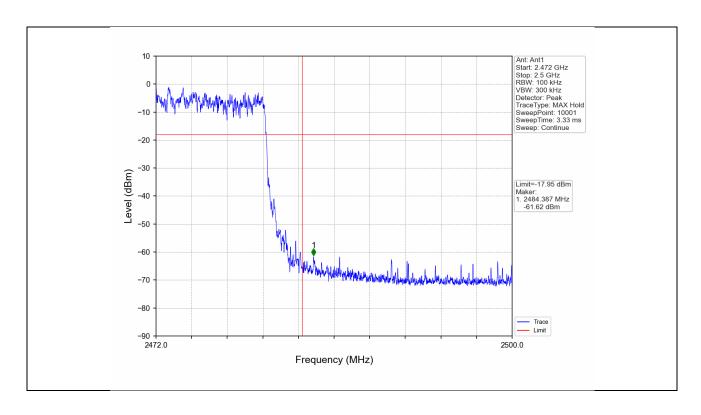
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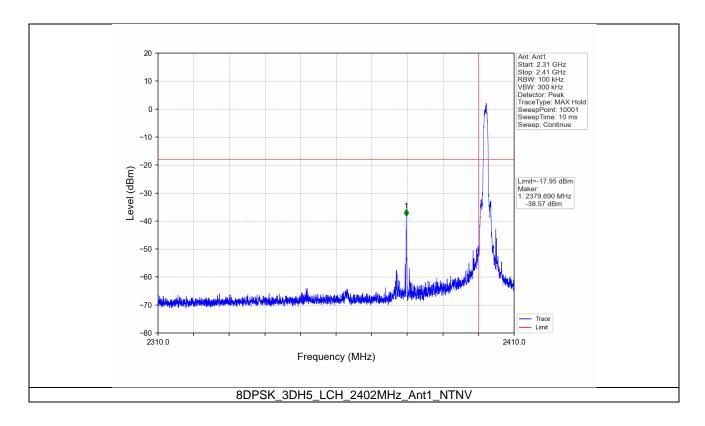
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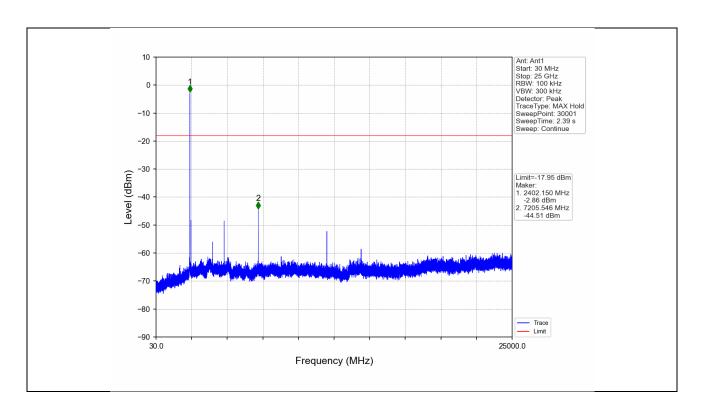
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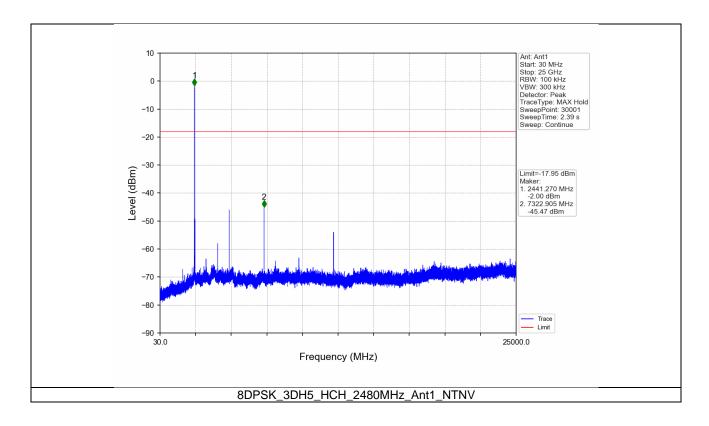
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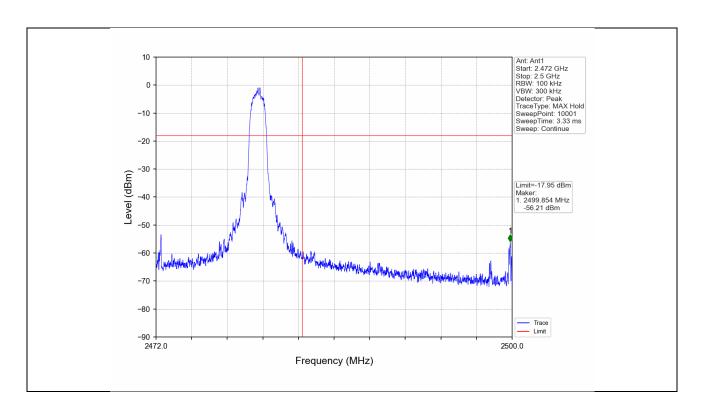
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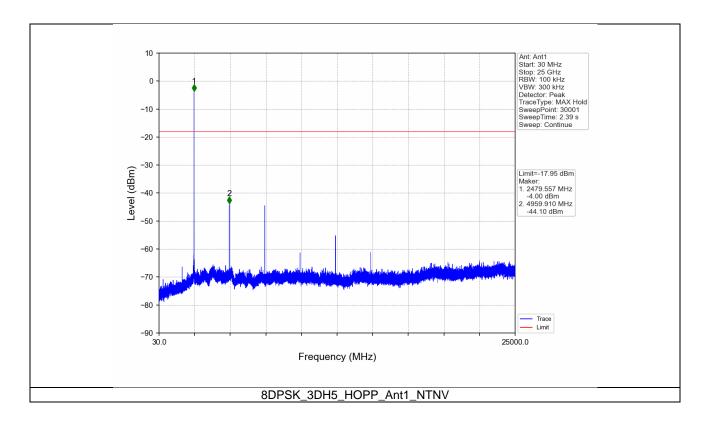
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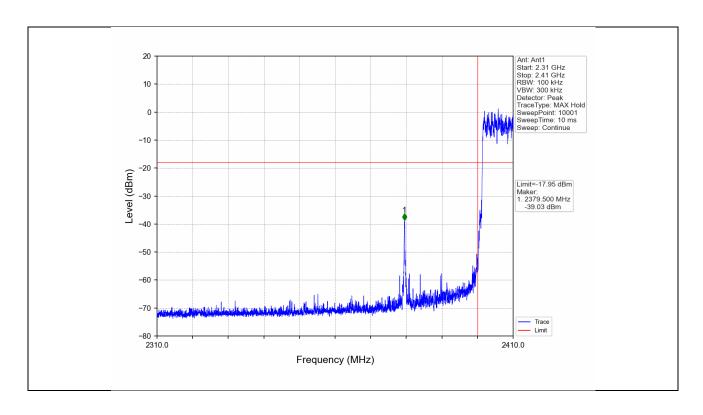
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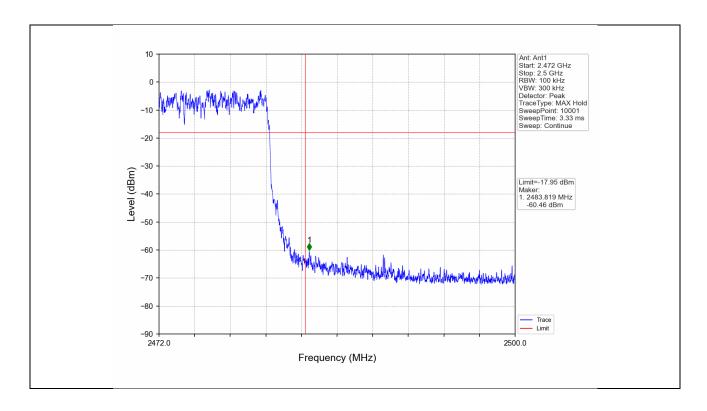
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