

## Appendix B for KSCR220300041302

## 1. Bandwidth

## 1.1 OBW

## 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.886	Pass
		2441	DH5	1	0.885	Pass
		2480	DH5	1	0.887	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.208	Pass
		2441	2DH5	1	1.209	Pass
		2480	2DH5	1	1.213	Pass
8DPSK	SISO	2402	3DH5	1	1.203	Pass
		2441	3DH5	1	1.203	Pass
		2480	3DH5	1	1.203	Pass



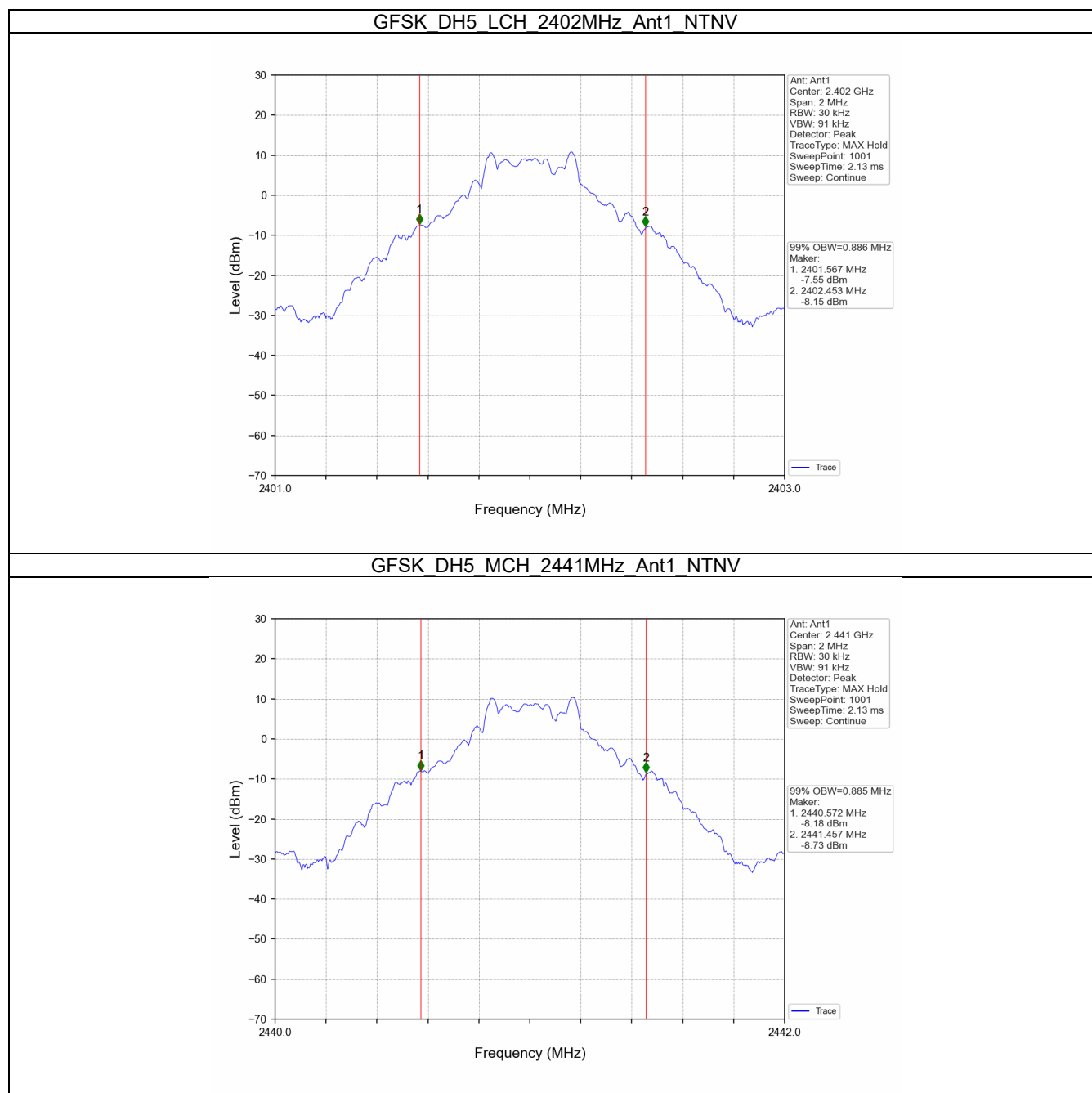
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### 1.1.2 Test Graph



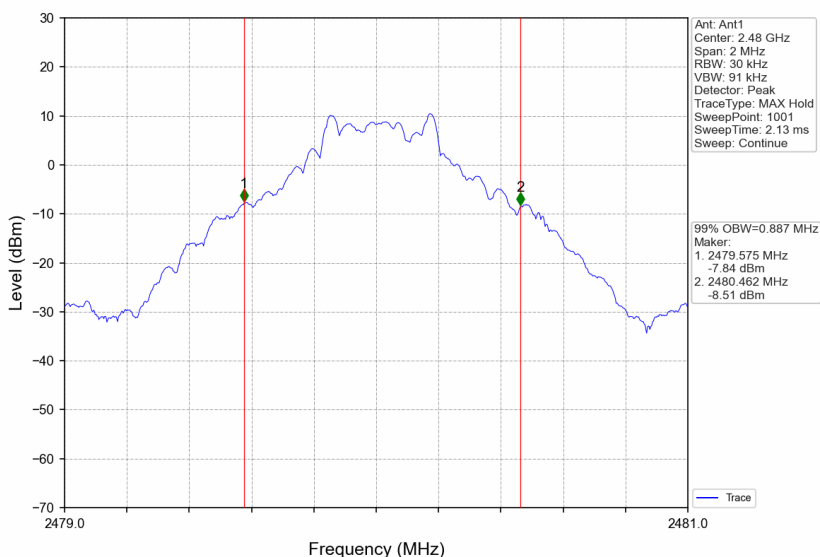
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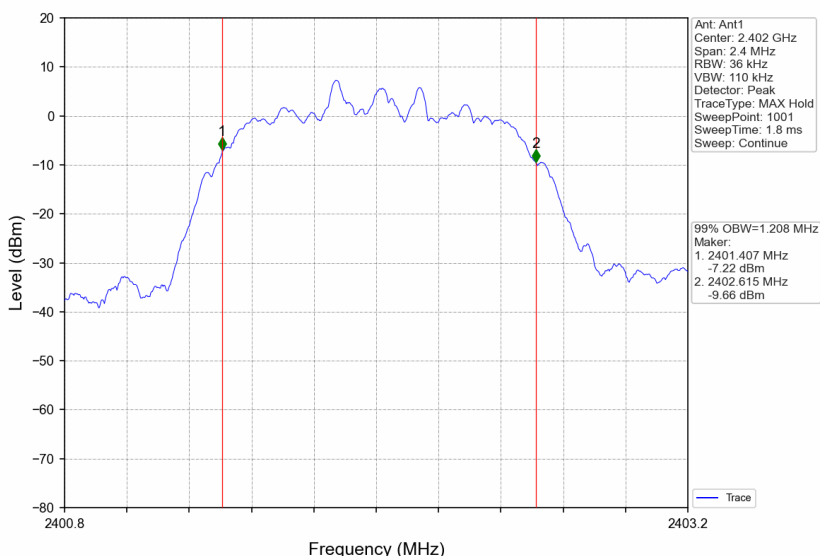
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GFSK DH5\_HCH\_2480MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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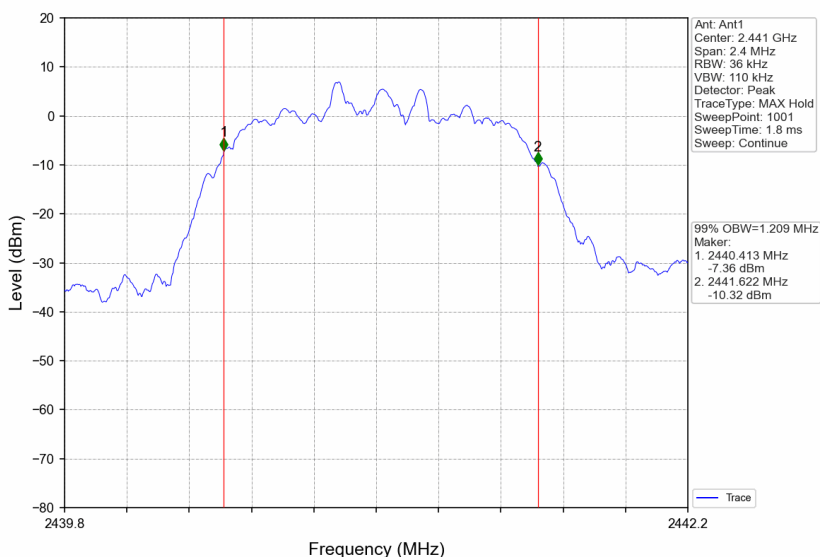
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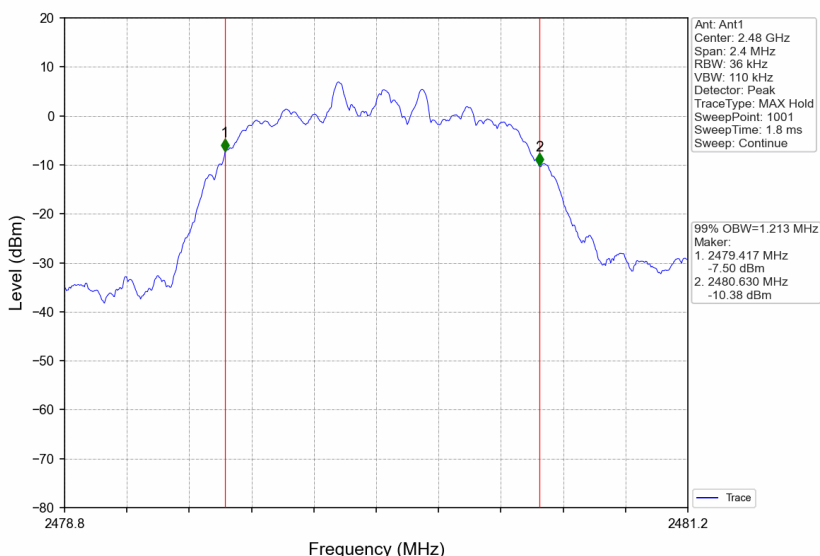
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



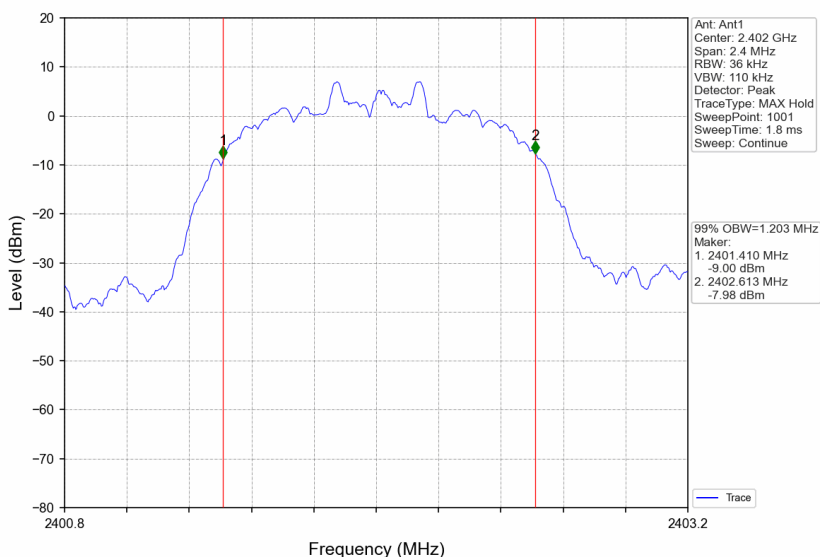
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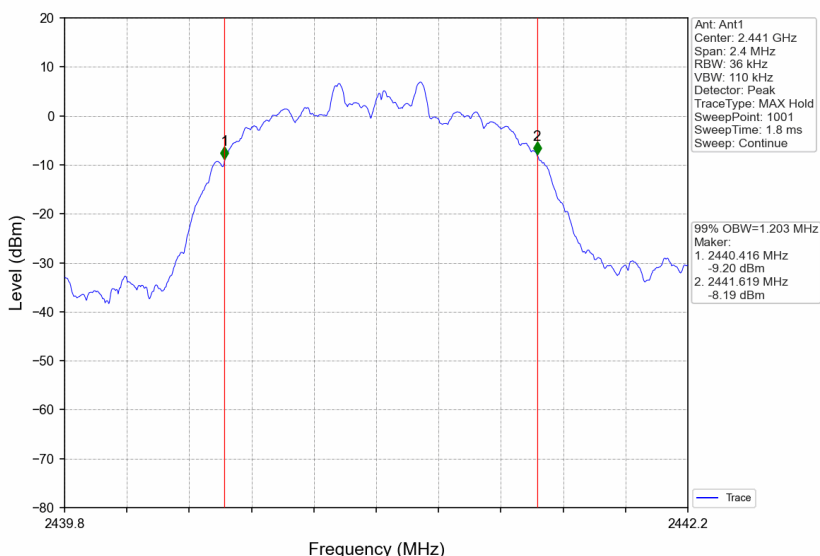
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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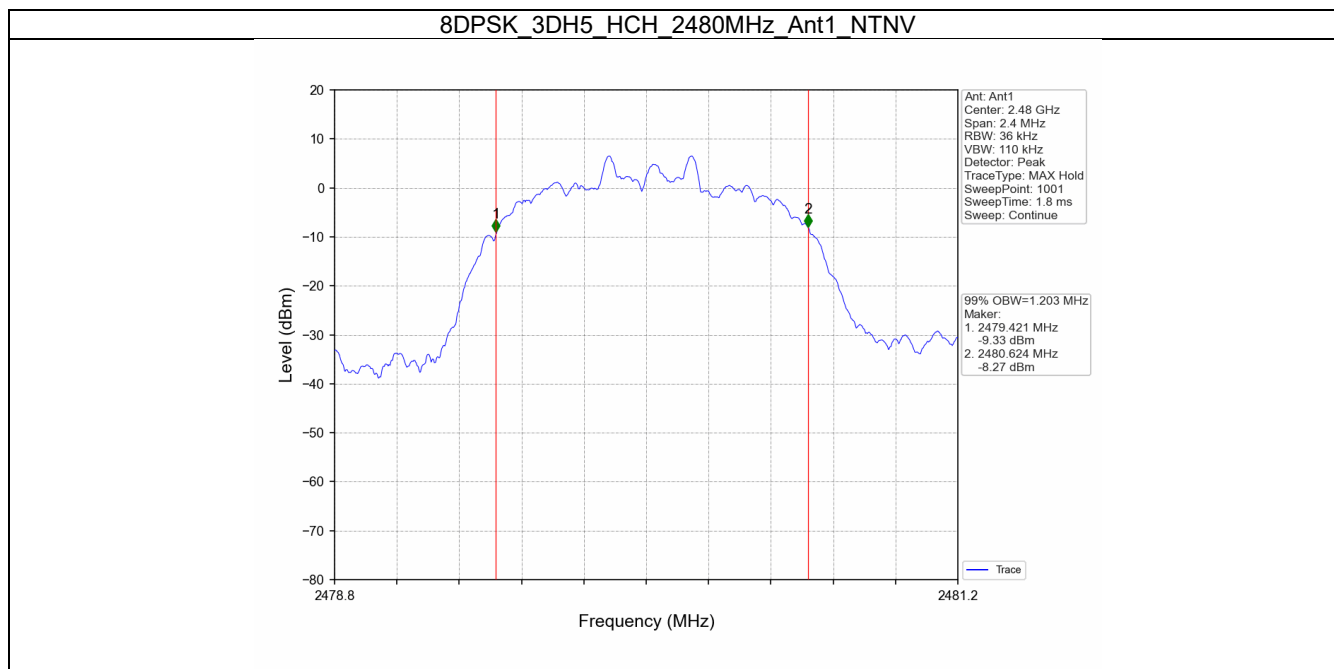
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## 1.2 20dB BW

### 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.948	Pass
		2441	DH5	1	0.947	Pass
		2480	DH5	1	0.948	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.348	Pass
		2441	2DH5	1	1.348	Pass
		2480	2DH5	1	1.351	Pass
8DPSK	SISO	2402	3DH5	1	1.319	Pass
		2441	3DH5	1	1.320	Pass
		2480	3DH5	1	1.319	Pass



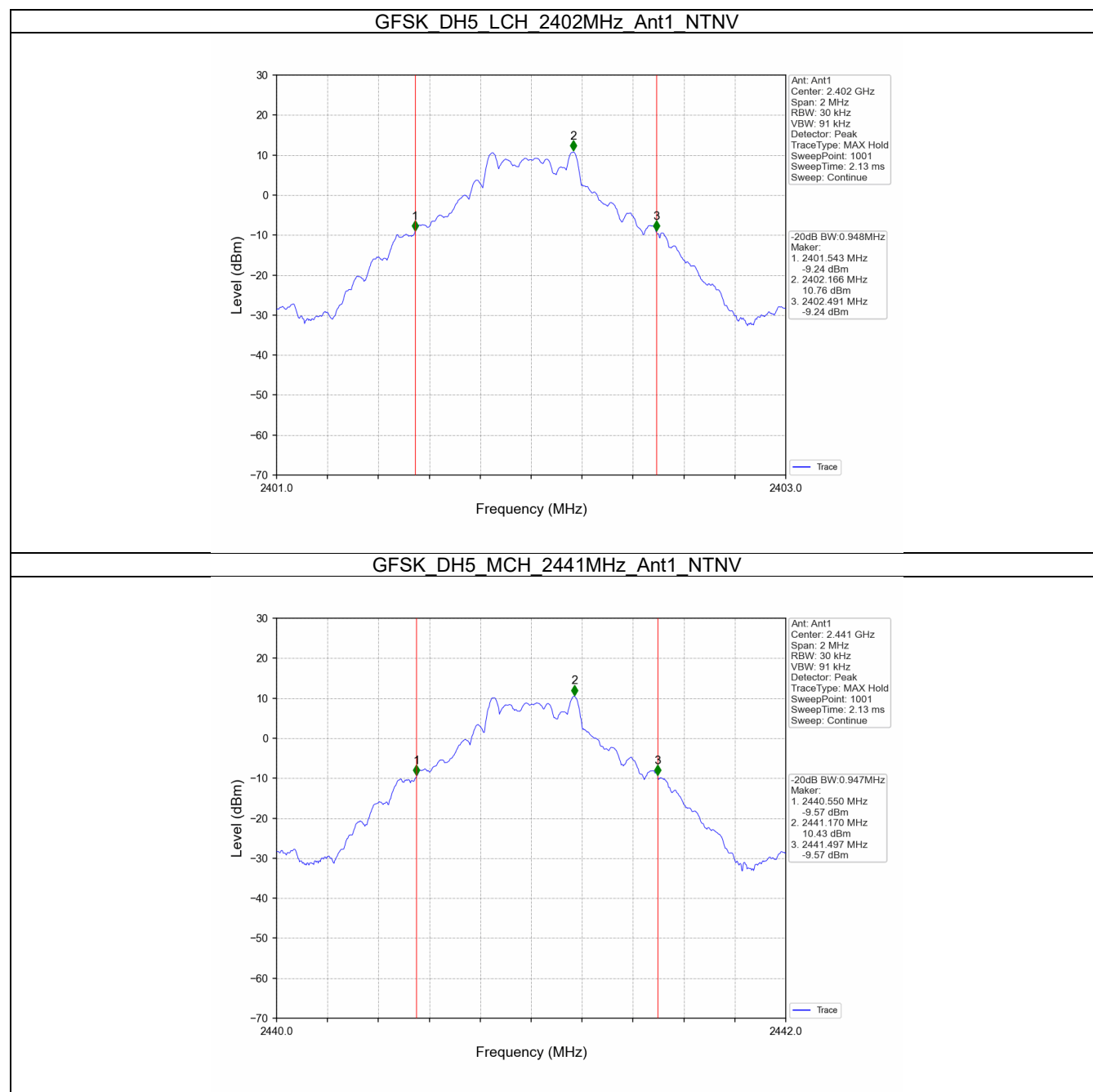
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### 1.2.2 Test Graph



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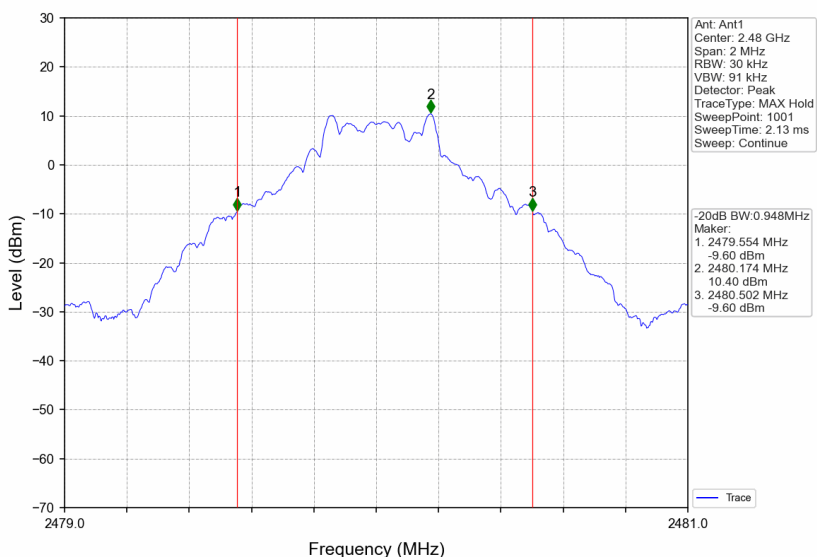
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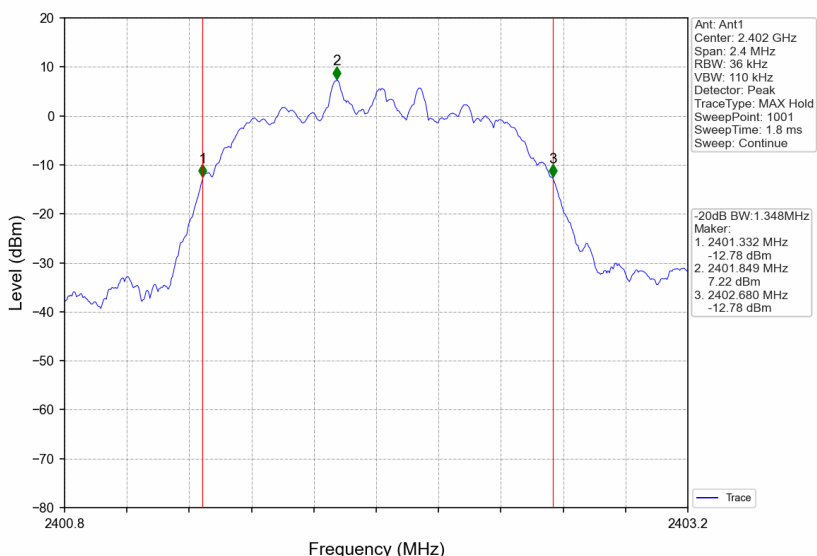
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GFSK DH5\_HCH\_2480MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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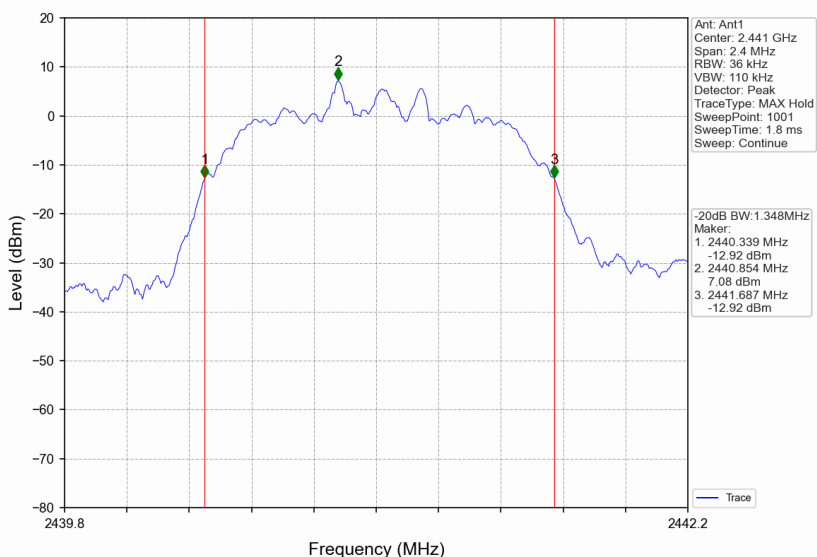
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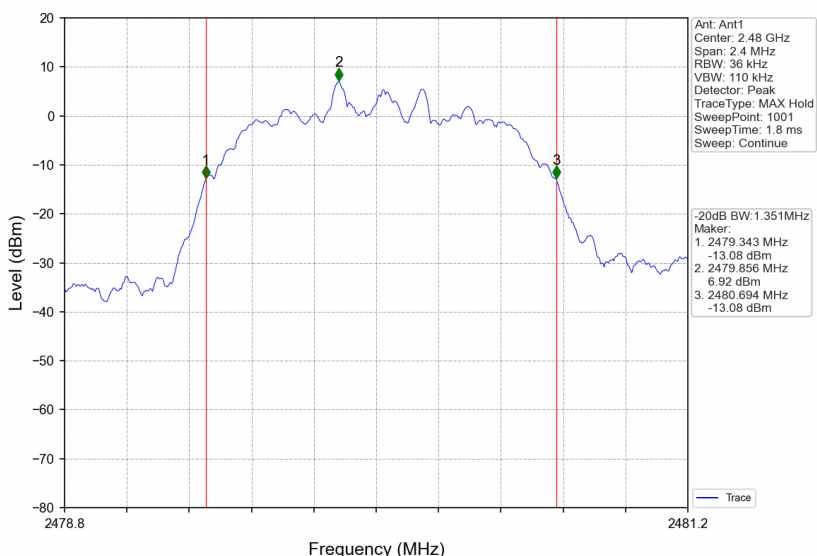
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Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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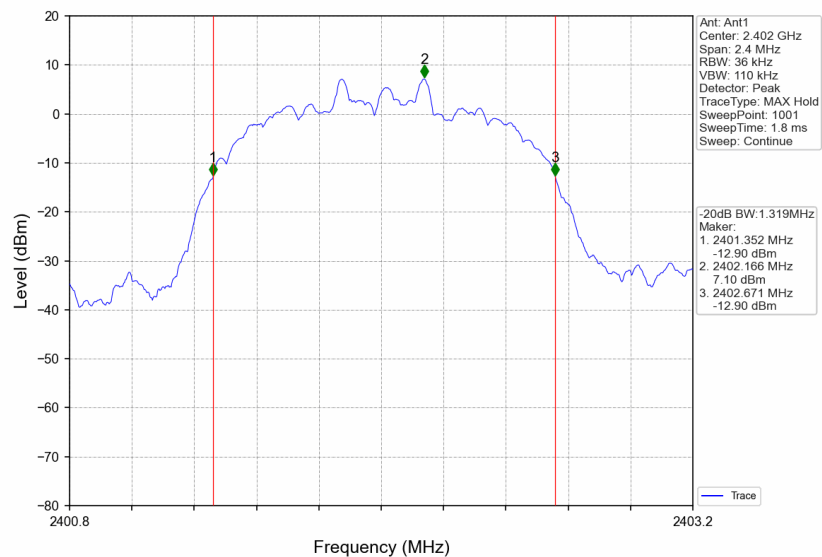
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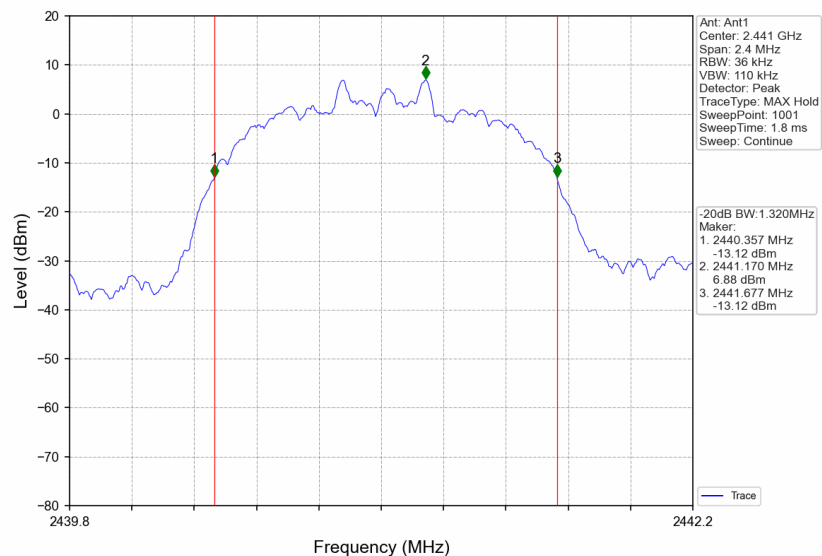
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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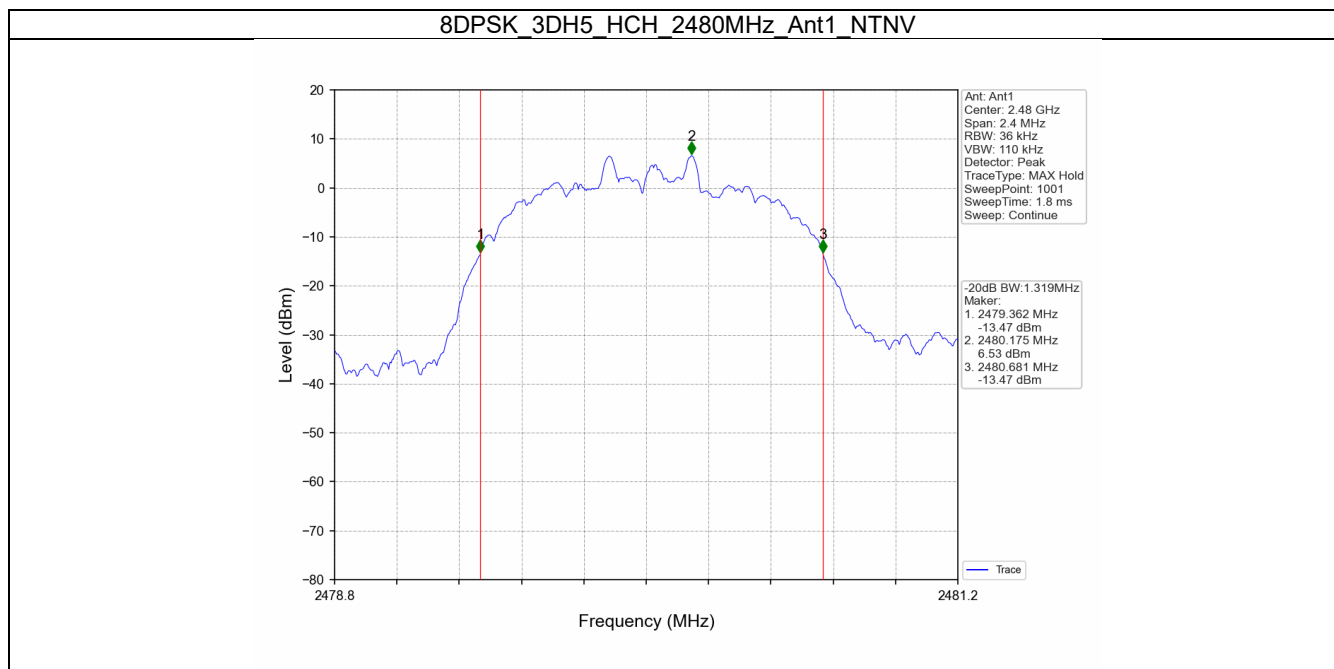
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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	11.72	<=30	Pass
		2441	DH5	11.32	<=30	Pass
		2480	DH5	11.29	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.01	<=20.97	Pass
		2441	2DH5	9.74	<=20.97	Pass
		2480	2DH5	9.54	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.20	<=20.97	Pass
		2441	3DH5	9.87	<=20.97	Pass
		2480	3DH5	9.50	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;



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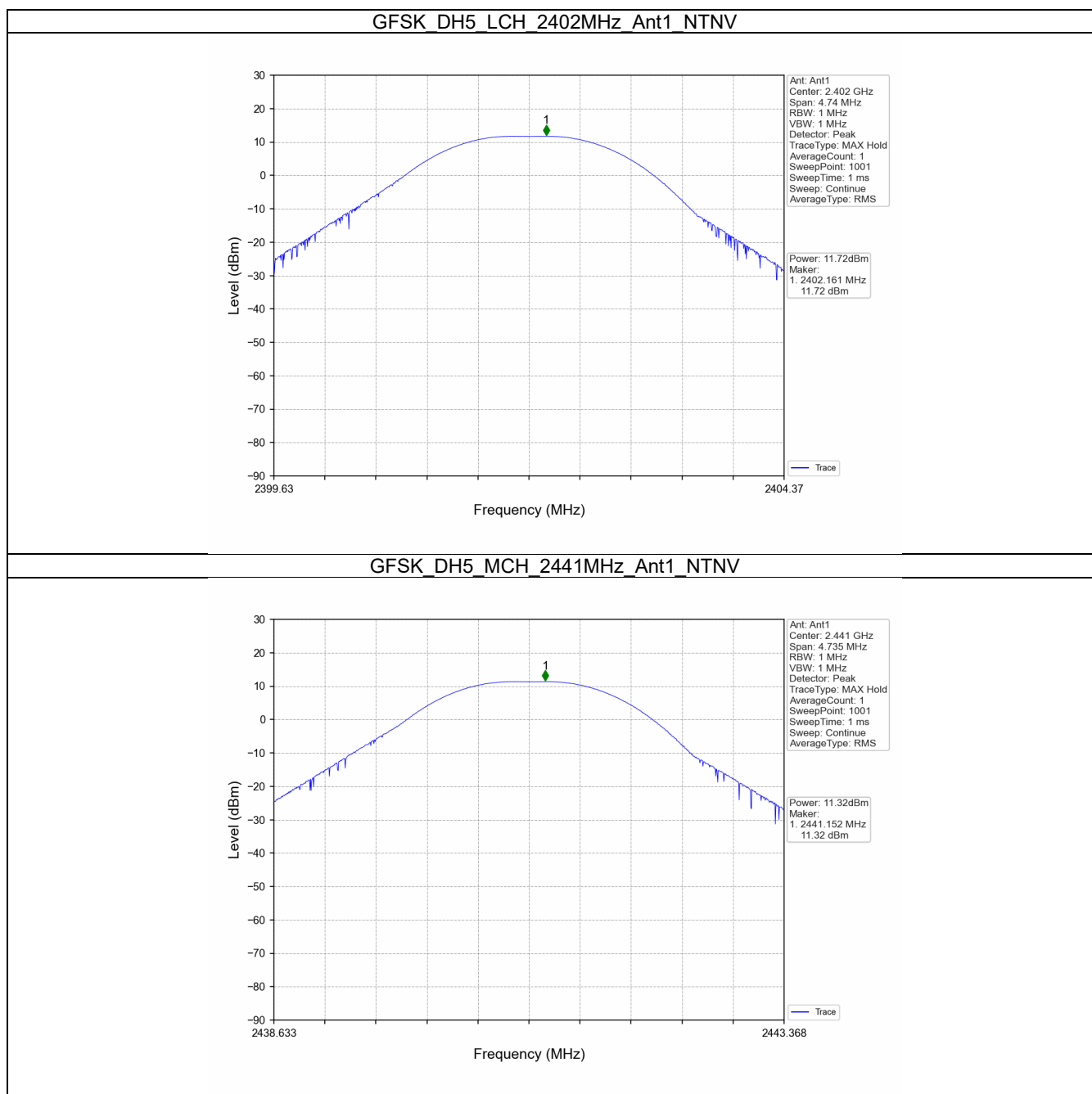
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### 2.1.2 Test Graph



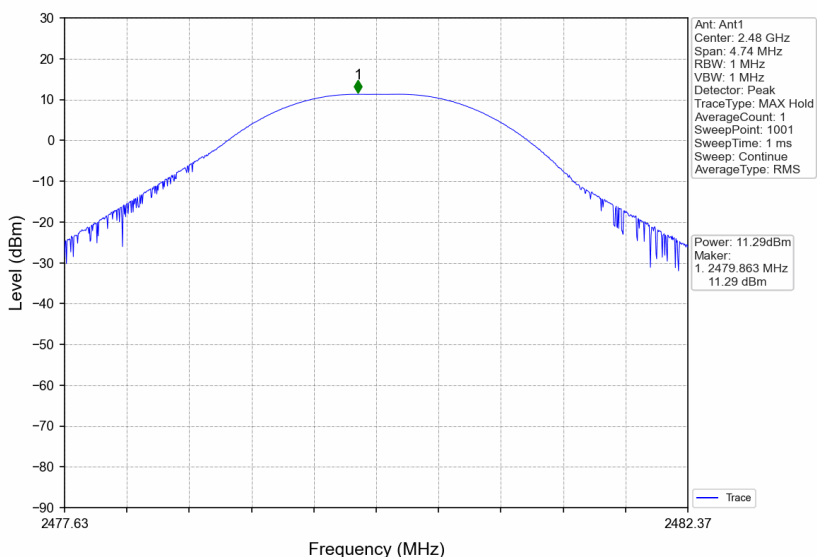
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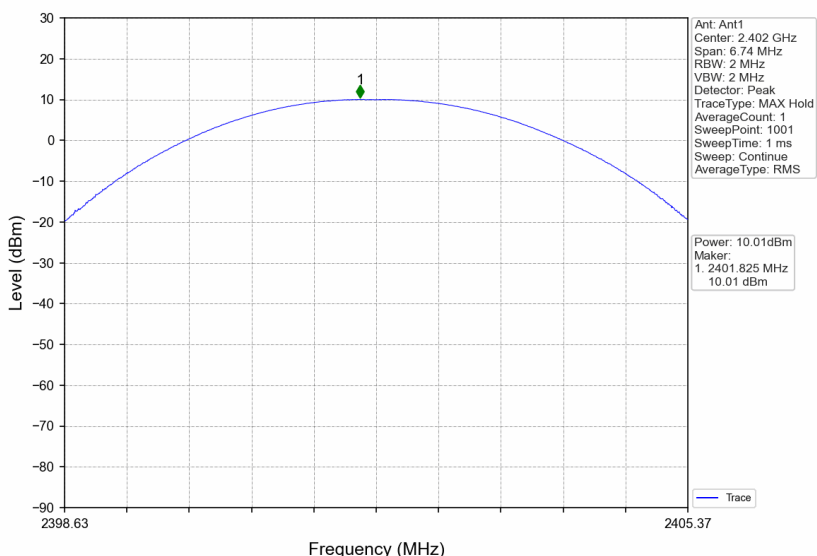
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GFSK DH5\_HCH\_2480MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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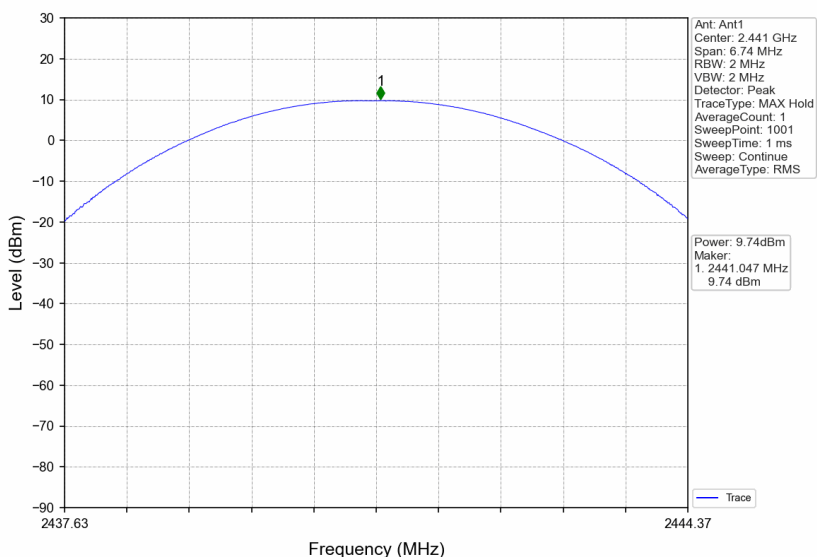
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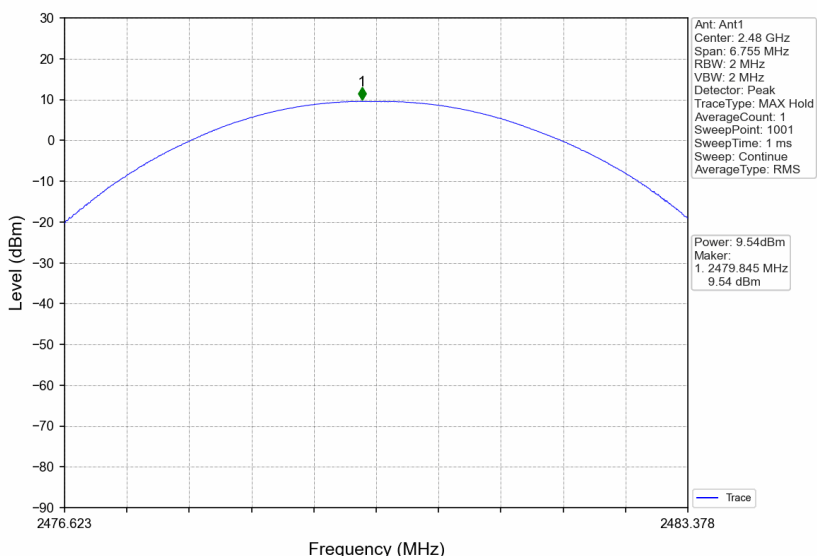
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



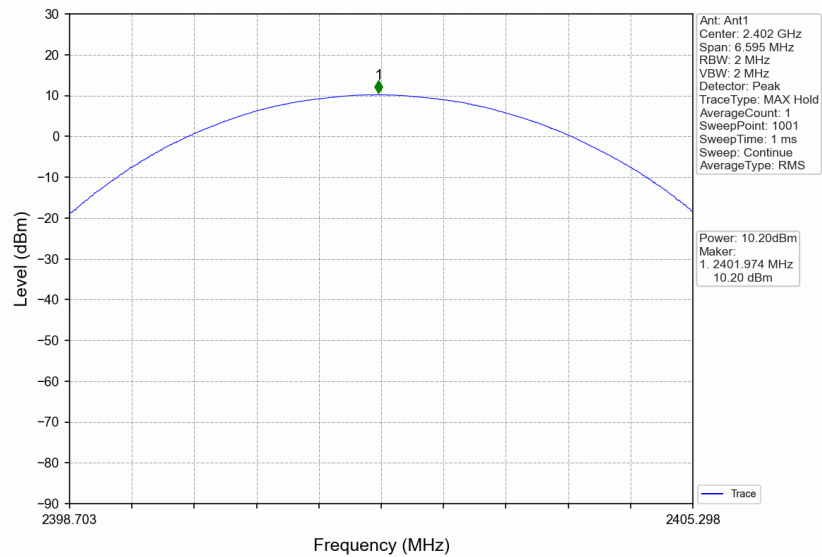
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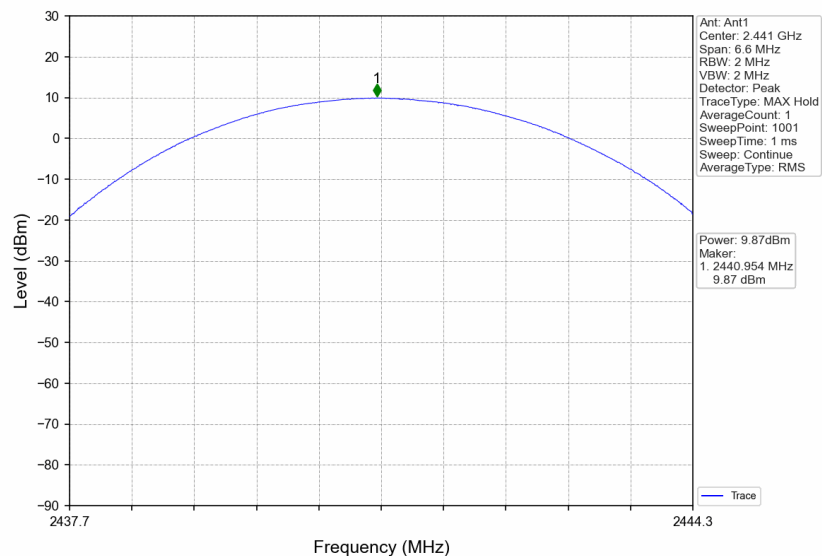
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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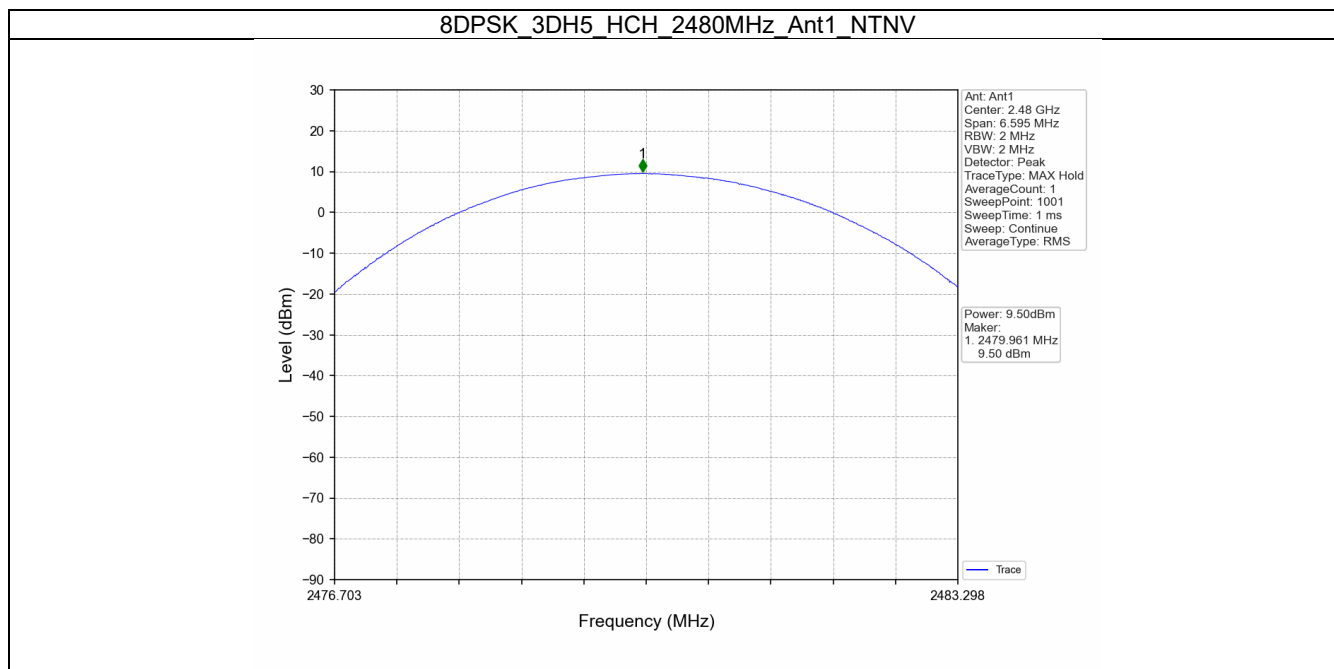
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### 3. Carrier Frequency Separation

#### 3.1 Ant1

##### 3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.994	0.948	$\geq 0.948$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.989	1.351	$\geq 0.901$	Pass
8DPSK	SISO	HOPP	3DH5	1.008	1.320	$\geq 0.88$	Pass



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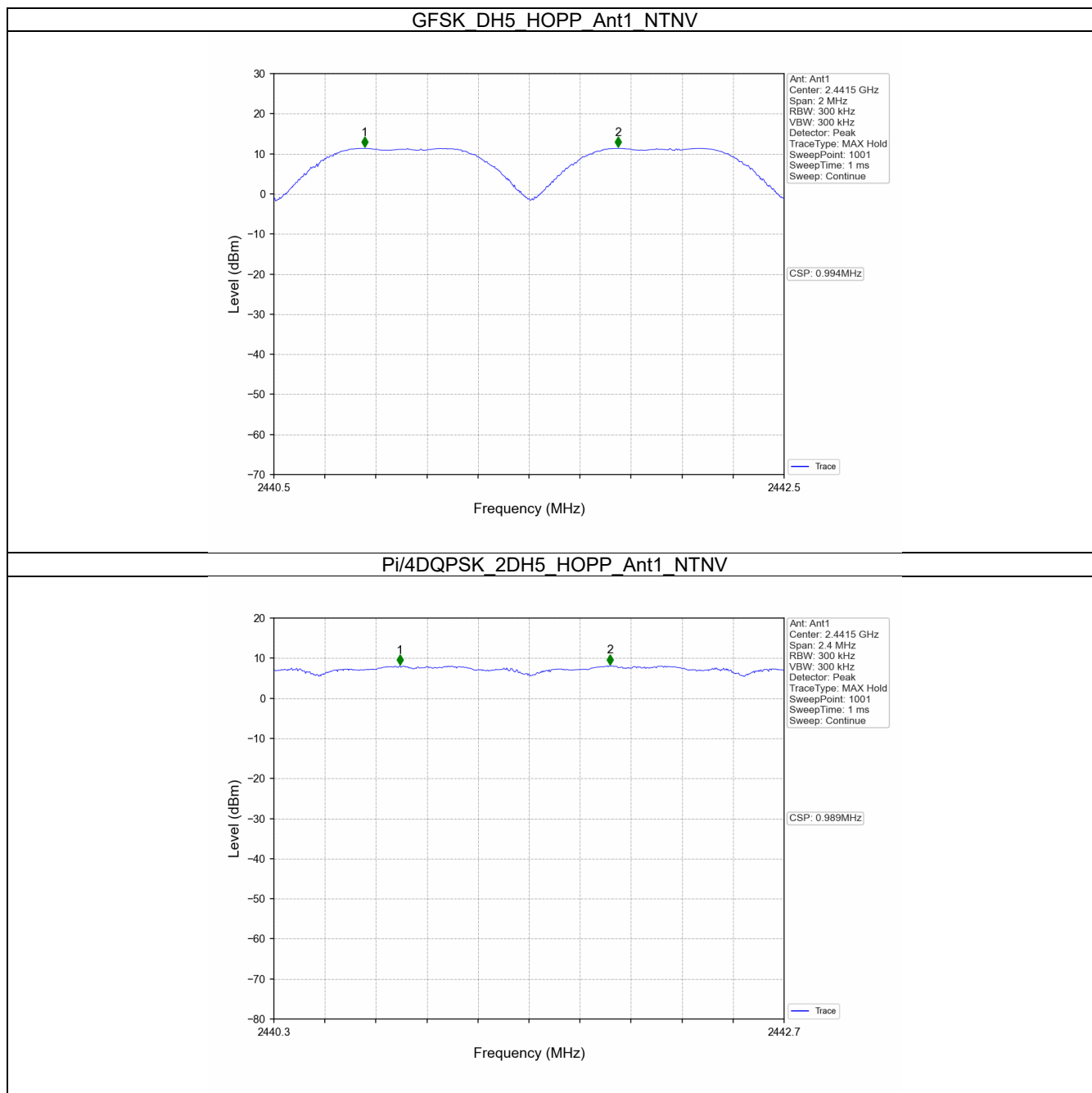
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### 3.1.2 Test Graph



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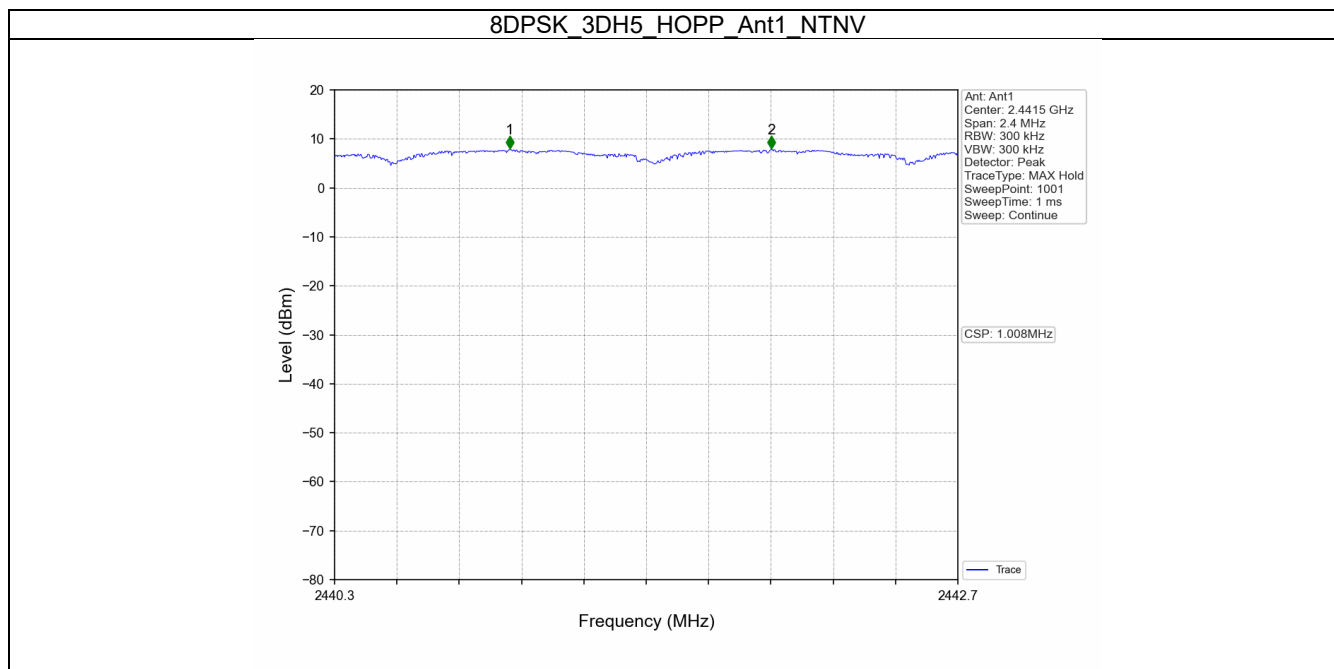
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## 4. Number of Hopping Frequencies

### 4.1 HoppNum

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
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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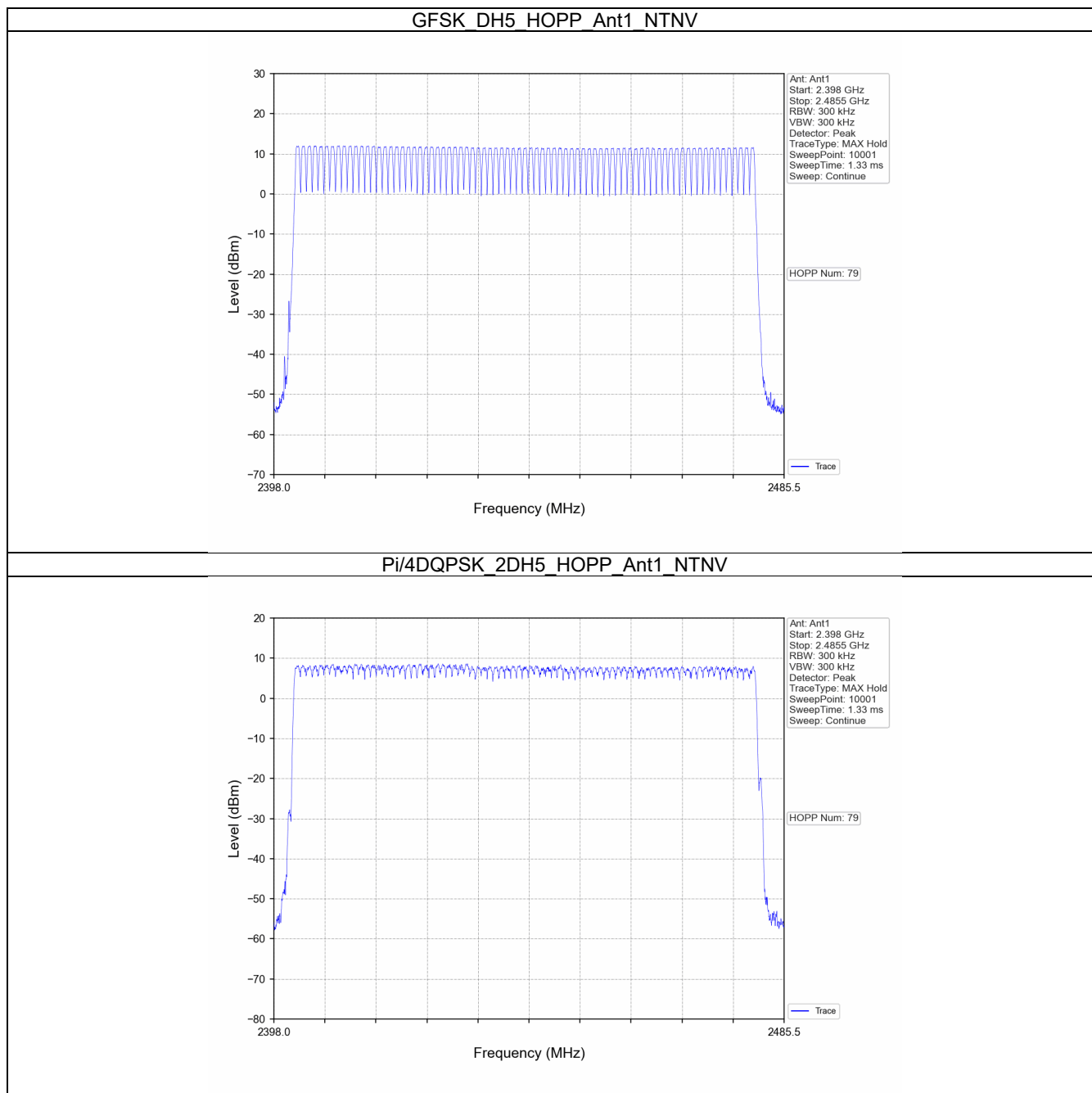
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### 4.1.2 Test Graph



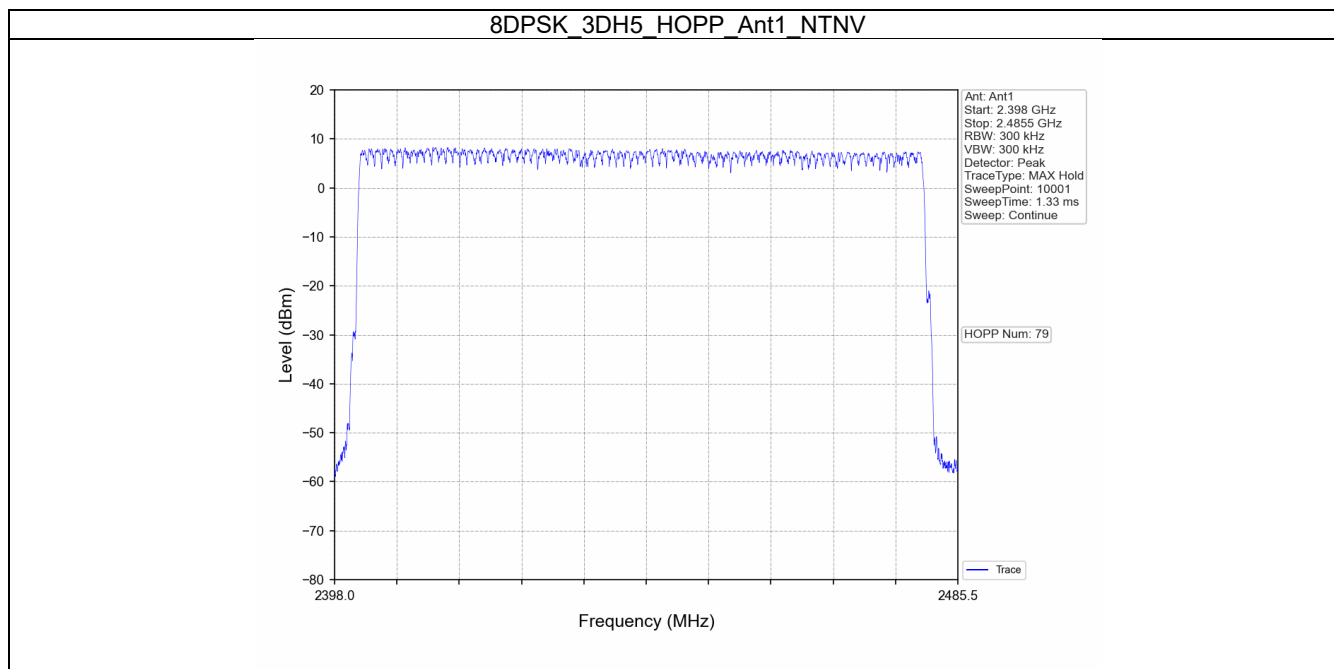
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## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

#### 5.1.1 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
GFSK	SISO	HOPP	DH1	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.642	31.600	156	256.152	<=400	Pass
			DH5	2.928	31.600	111	325.008	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.682	31.600	166	279.212	<=400	Pass
			2DH5	2.930	31.600	94	275.420	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	320	125.440	<=400	Pass
			3DH3	1.644	31.600	163	267.972	<=400	Pass
			3DH5	2.932	31.600	121	354.772	<=400	Pass



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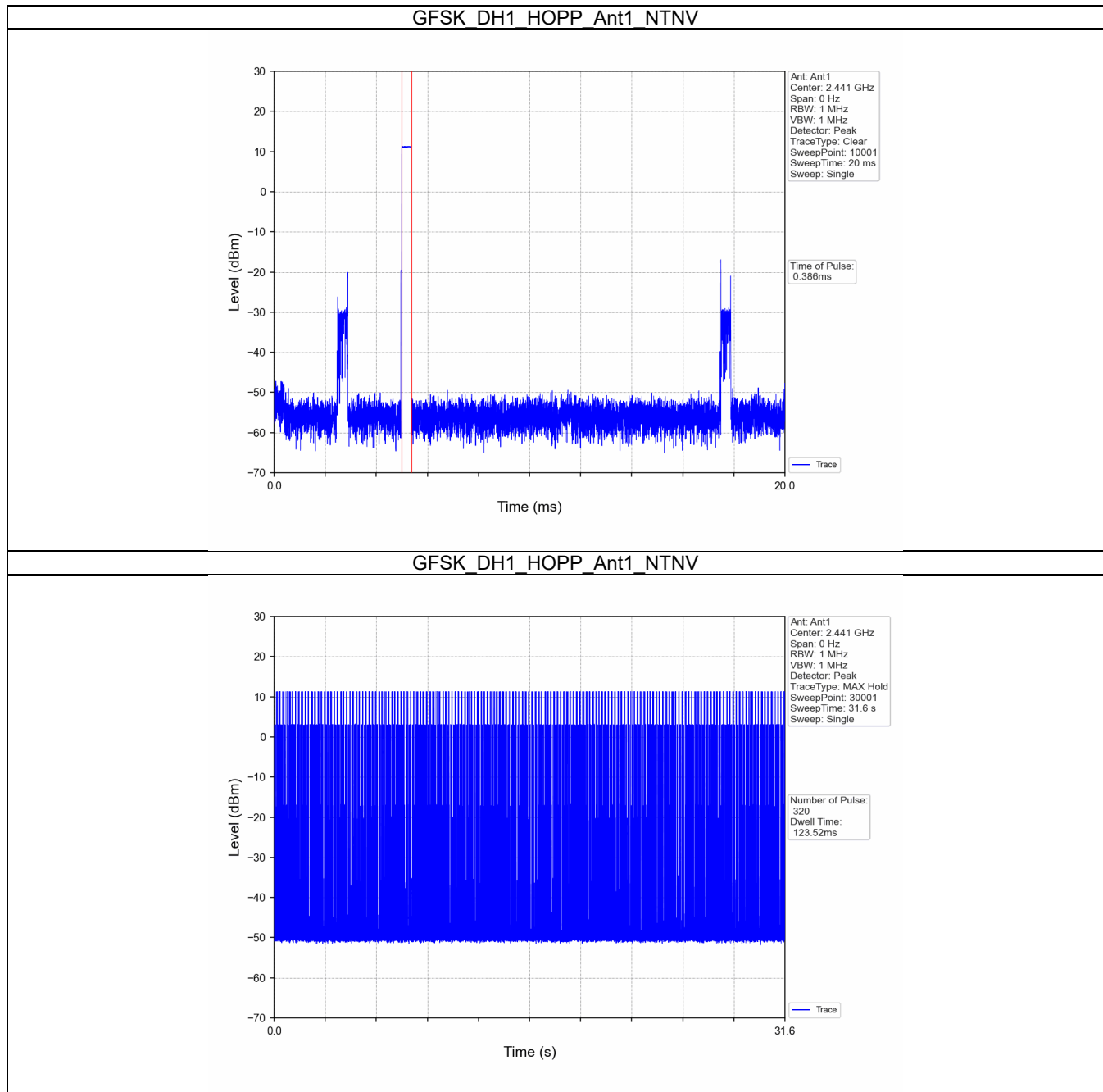
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## 5.1.2 Test Graph



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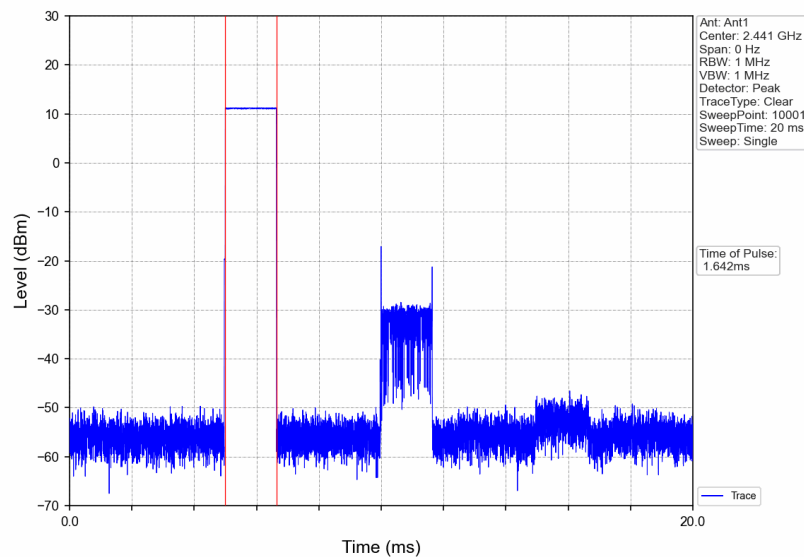
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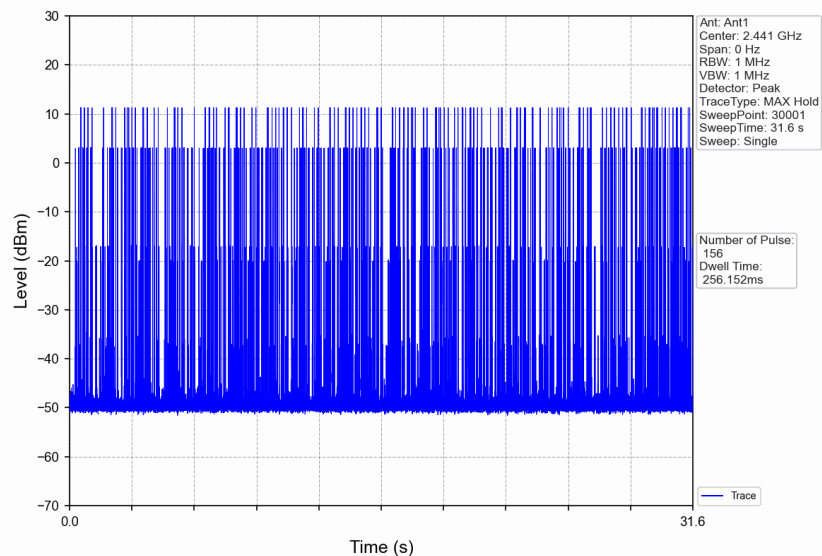
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GFSK\_DH3\_HOPP\_Ant1\_NTNV



GFSK\_DH3\_HOPP\_Ant1\_NTNV



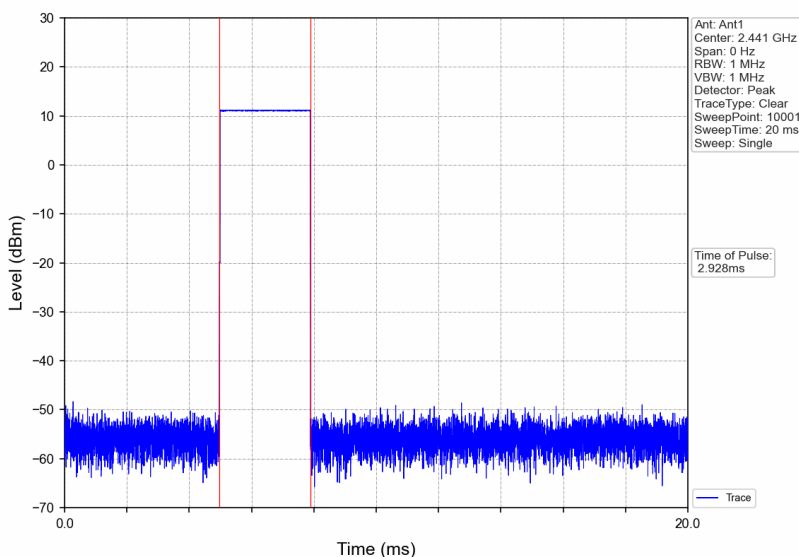
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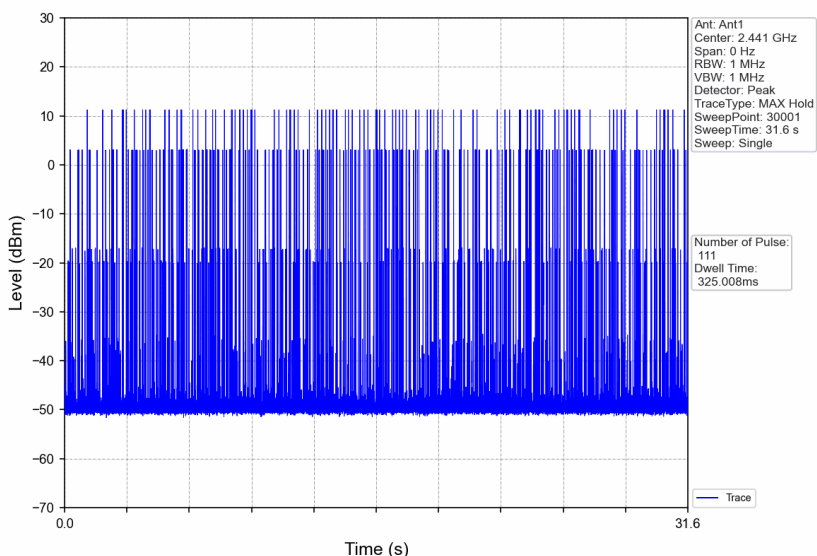
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GFSK\_DH5\_HOPP\_Ant1\_NTNV



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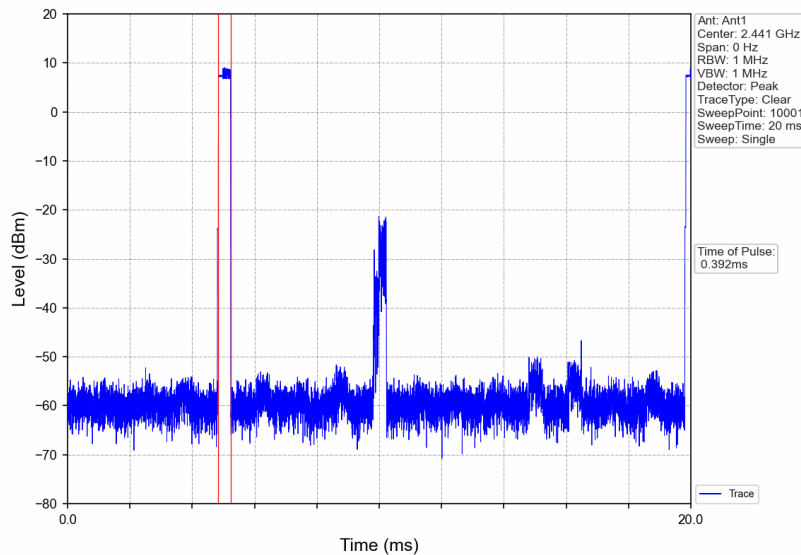
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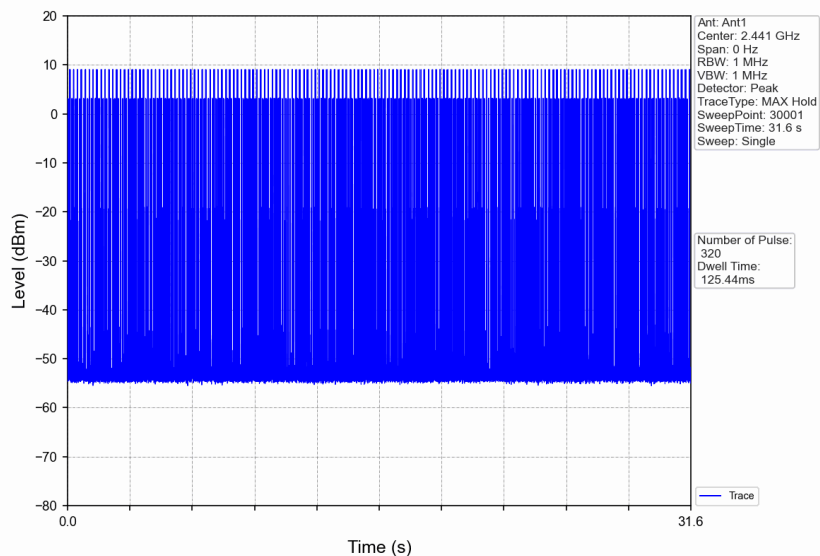
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Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



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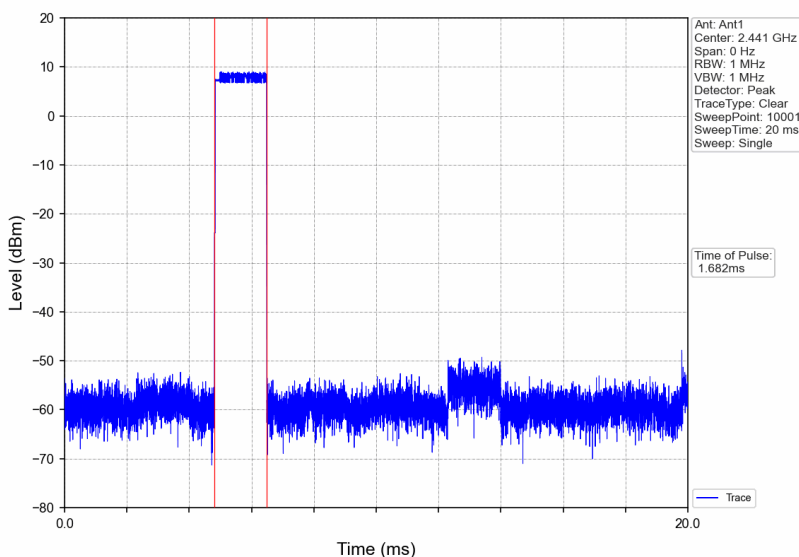
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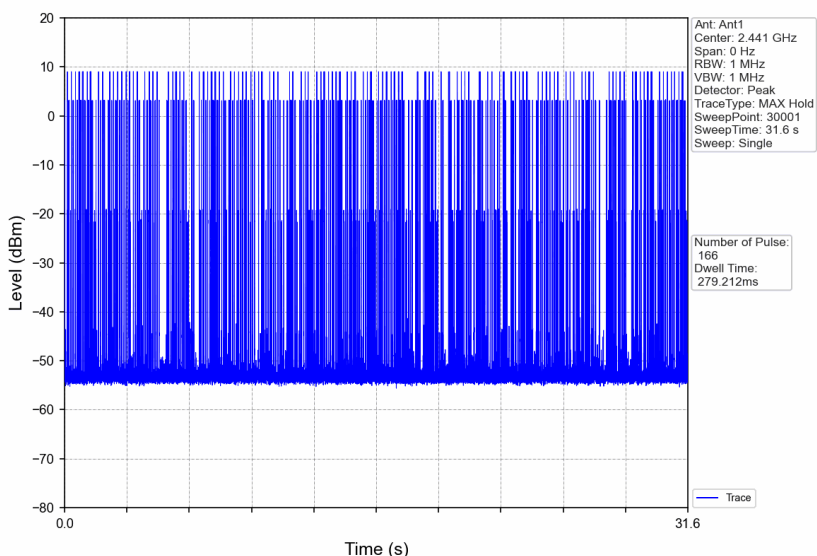
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Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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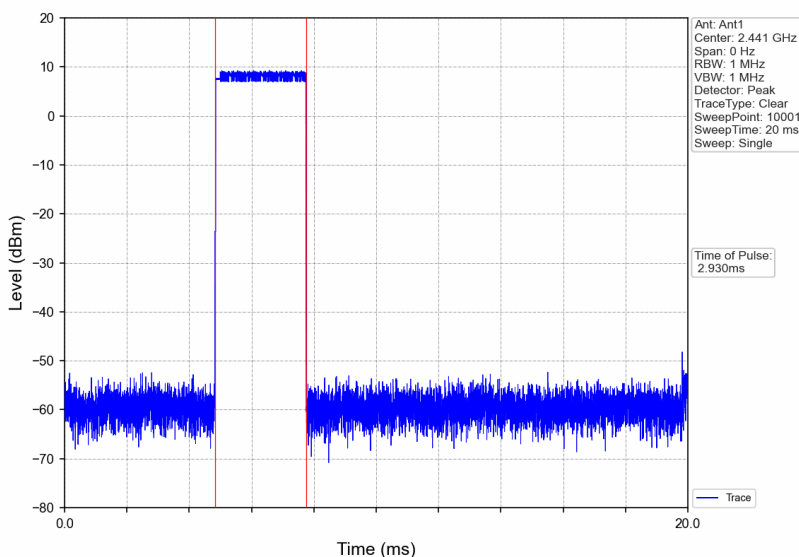
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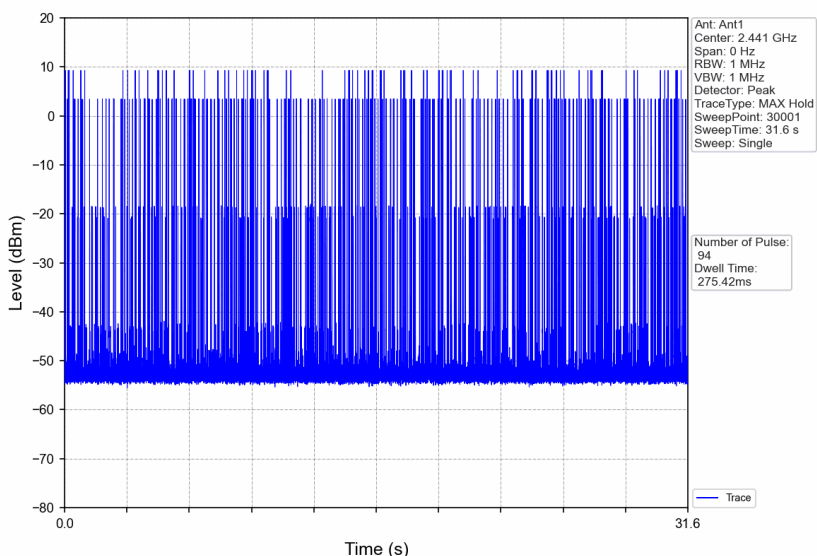
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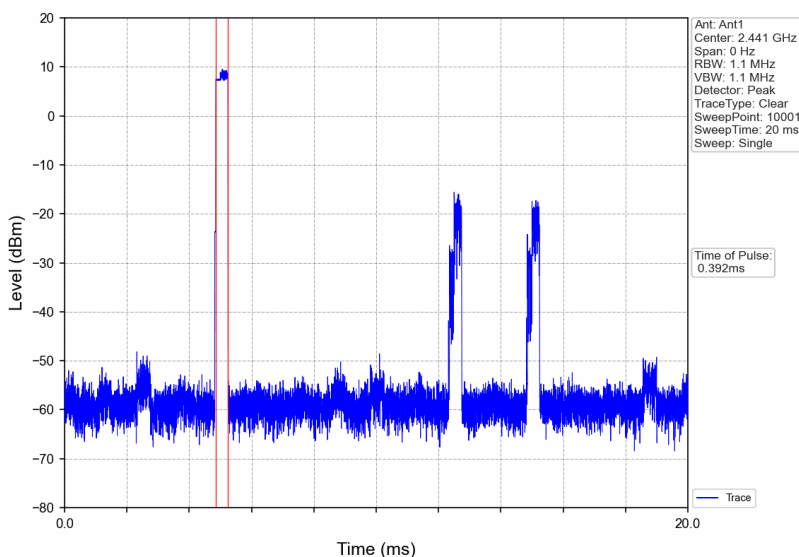
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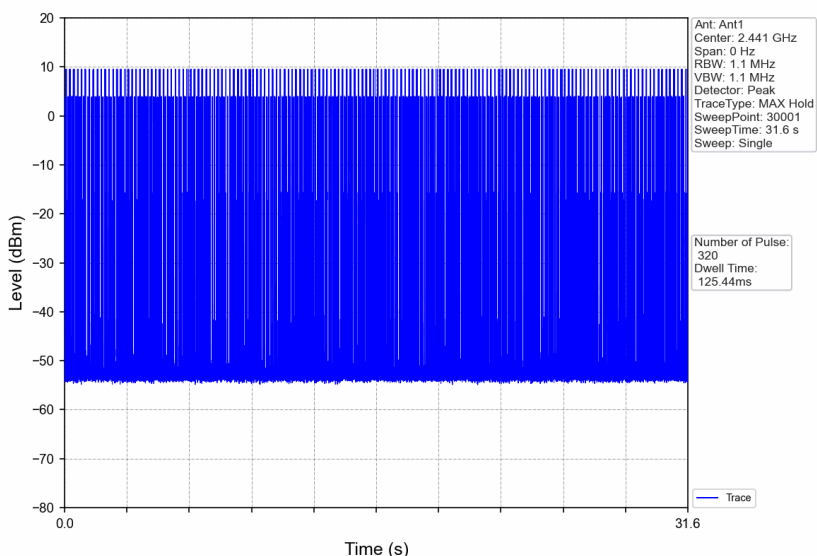
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8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



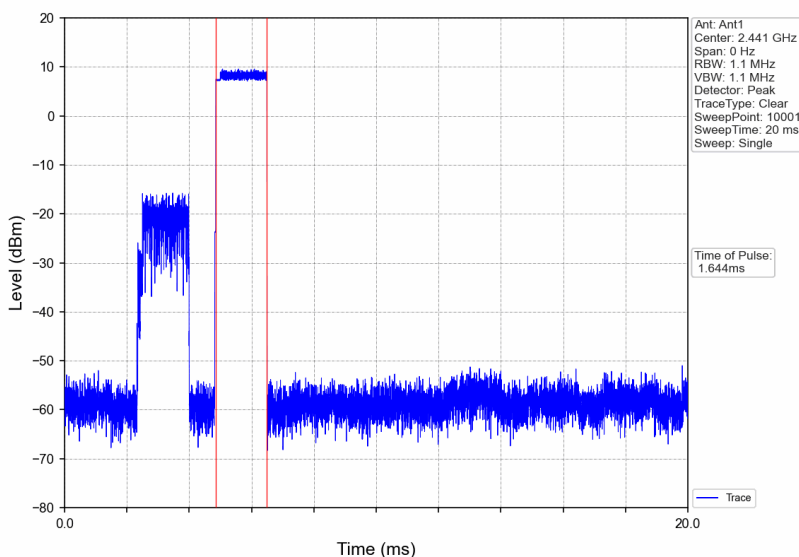
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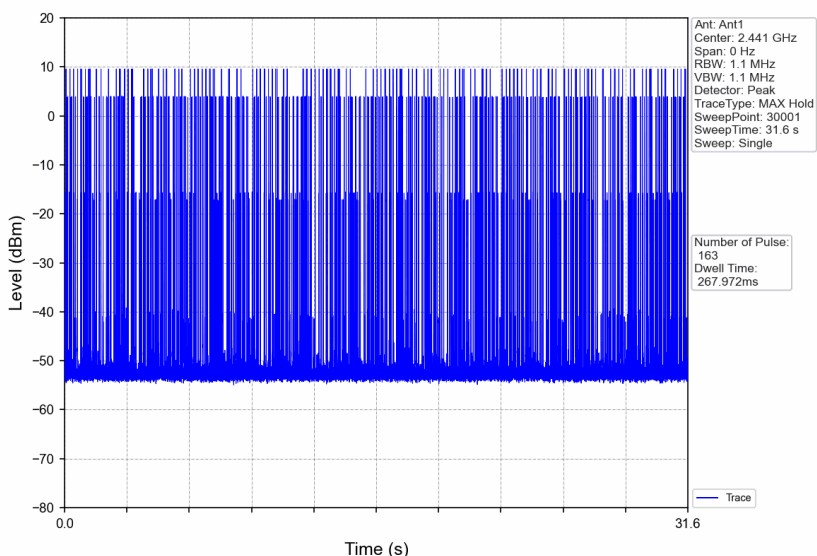
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8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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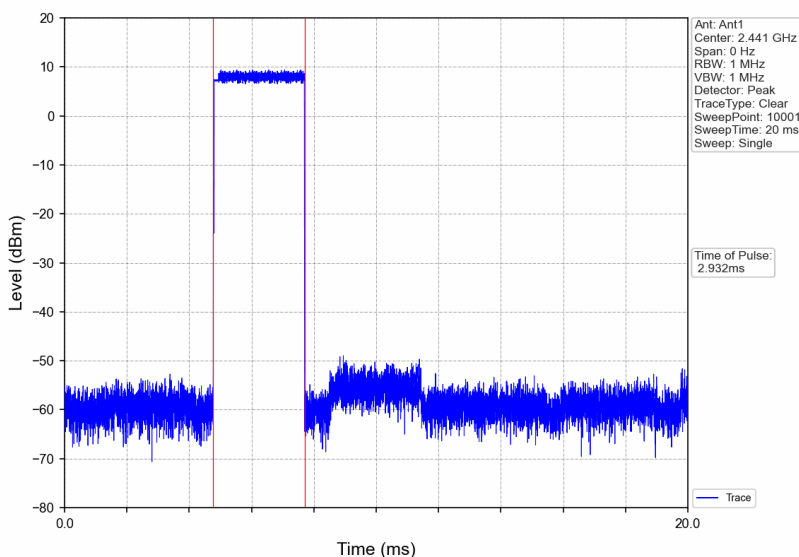
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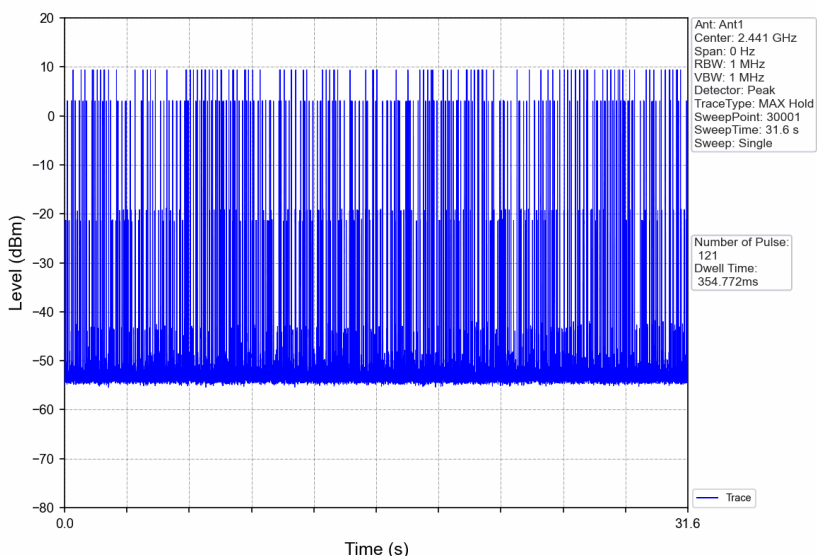
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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	11.64
		2441	DH5	1	11.25
		2480	DH5	1	11.22
Pi/4DQPSK	SISO	2402	2DH5	1	7.82
		2441	2DH5	1	7.65
		2480	2DH5	1	7.49
8DPSK	SISO	2402	3DH5	1	7.58
		2441	3DH5	1	7.36
		2480	3DH5	1	6.99

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.  
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



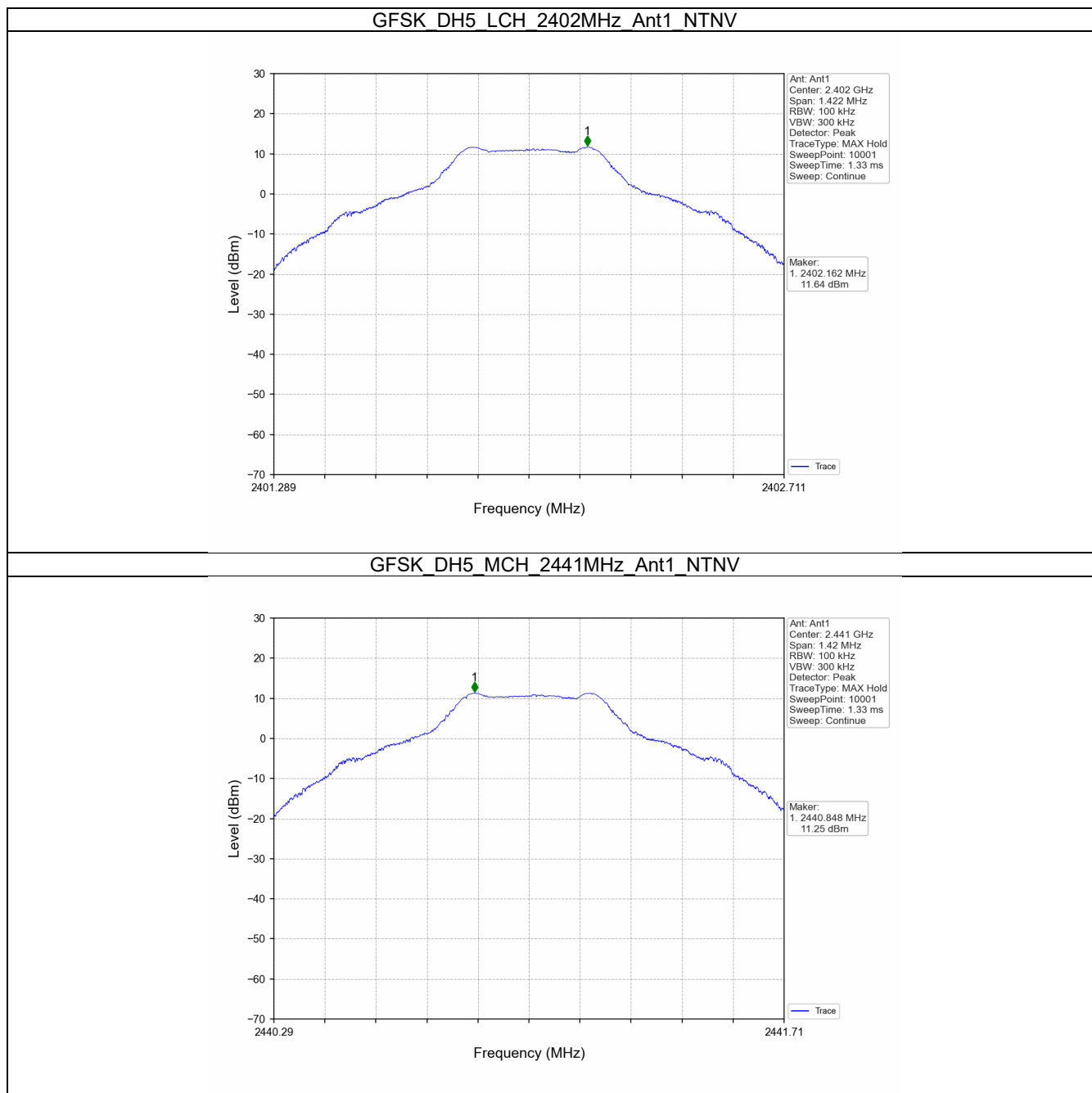
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### 6.1.2 Test Graph



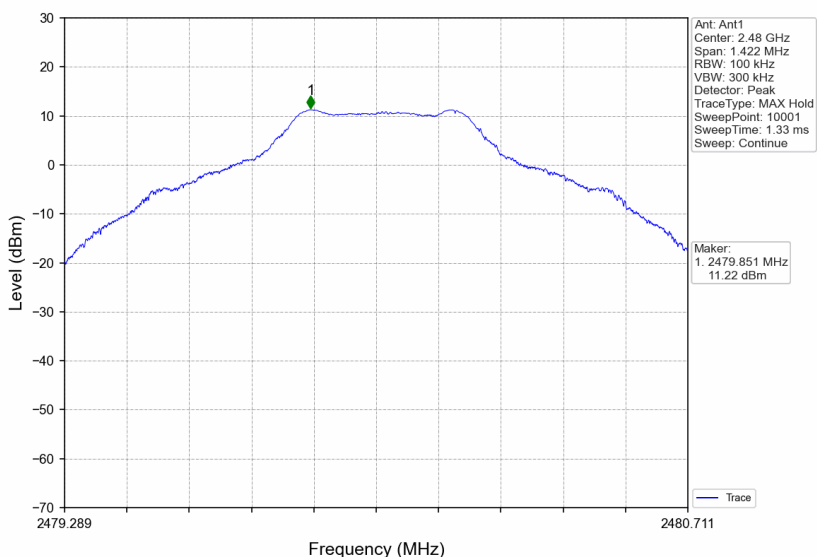
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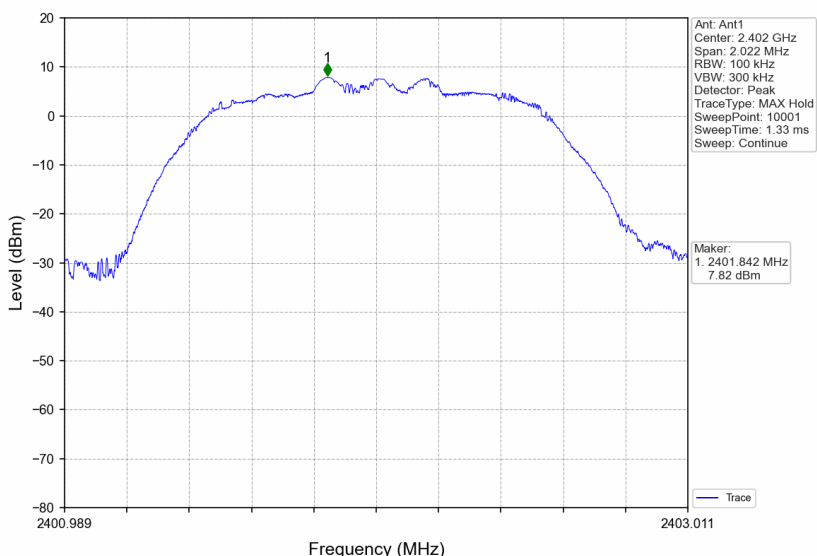
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GFSK DH5\_HCH\_2480MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



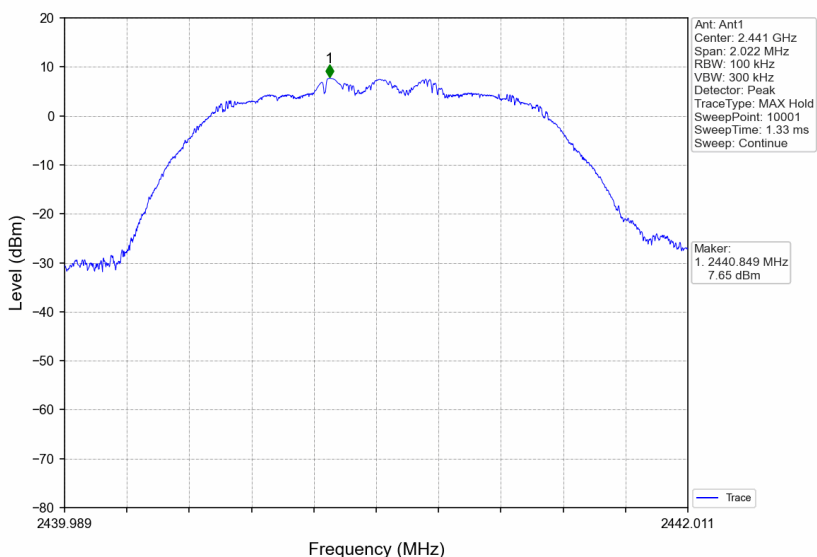
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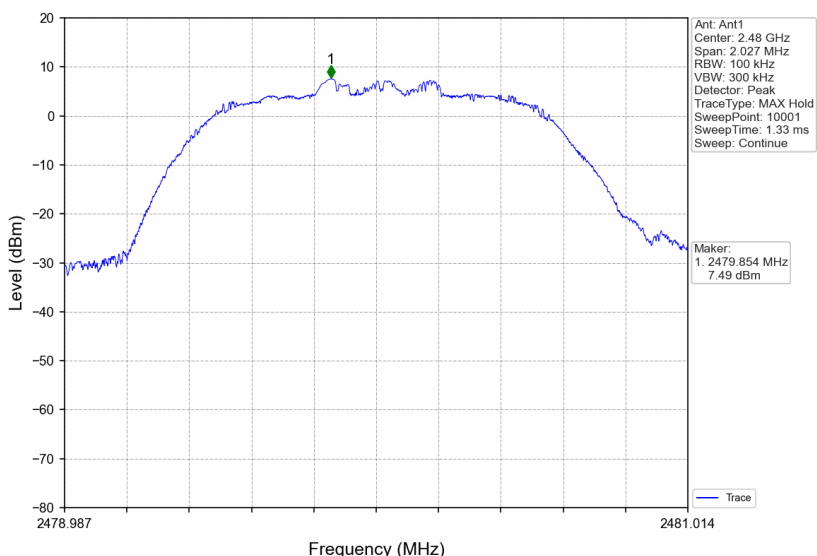
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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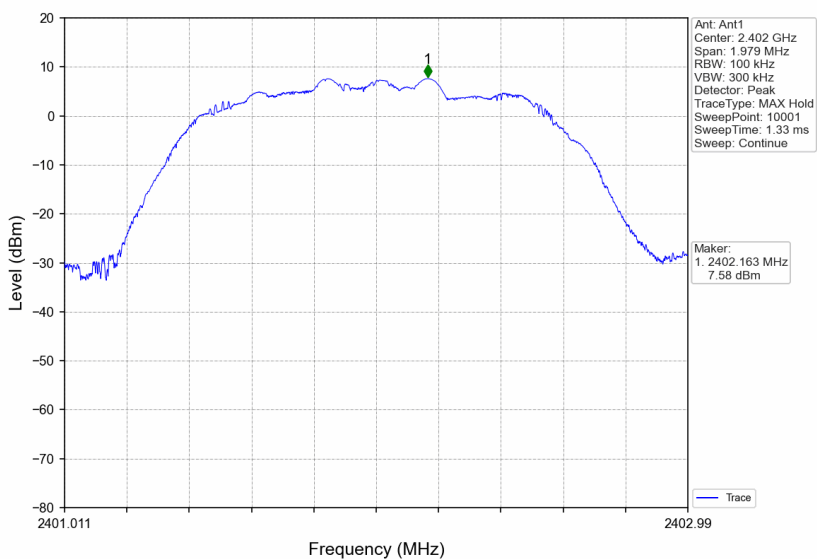
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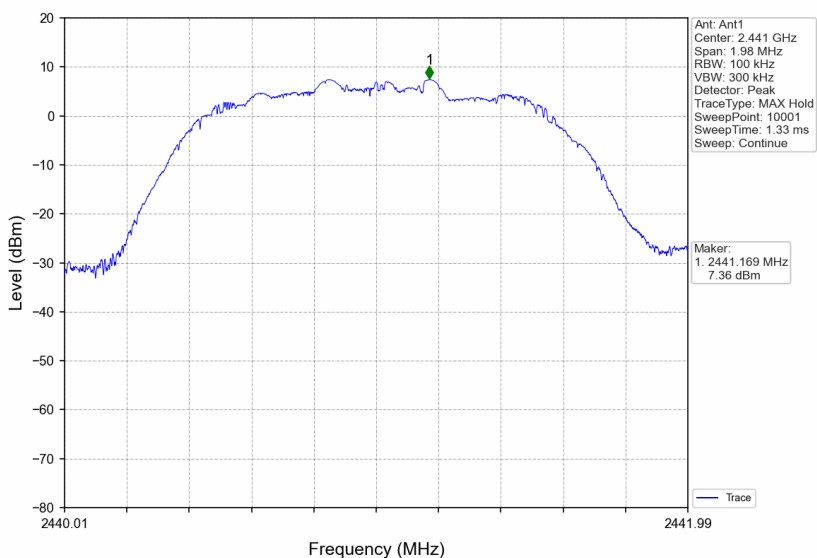
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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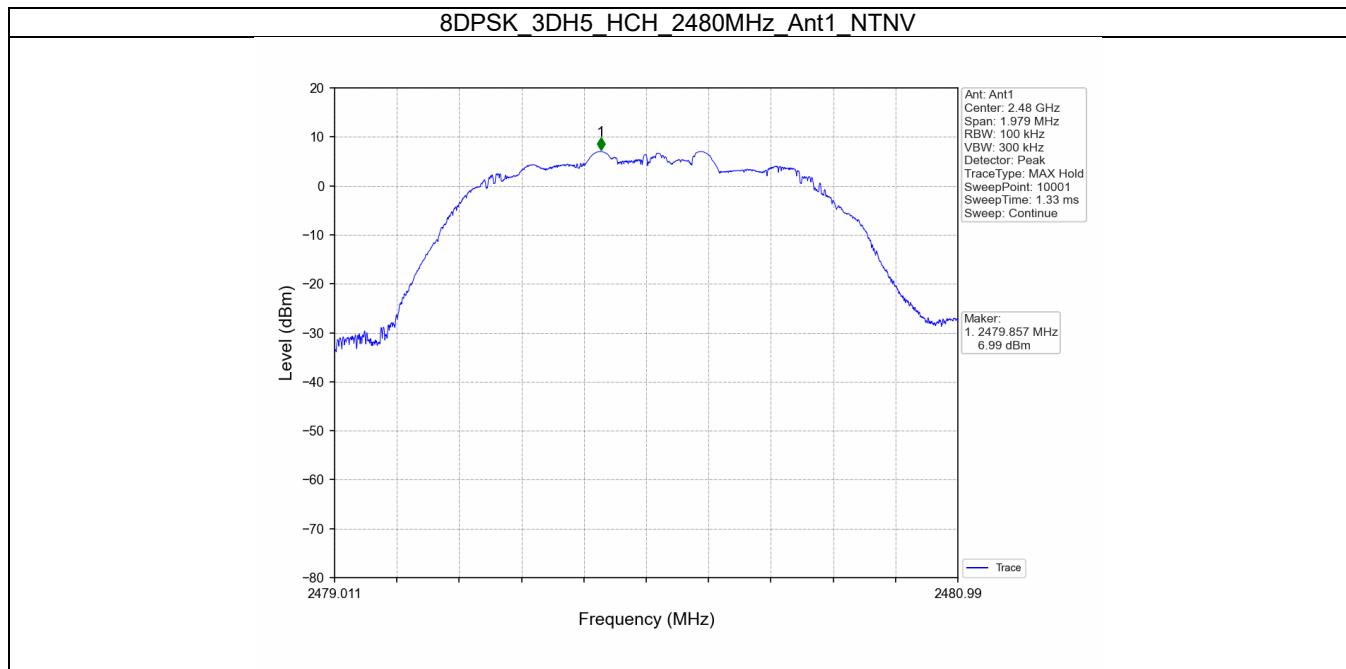
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## 6.2 CSE

### 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	11.64	-8.36	Pass
		2441	DH5	1	11.64	-8.36	Pass
		2480	DH5	1	11.64	-8.36	Pass
		HOPP	DH5	1	11.64	-8.36	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	7.82	-12.18	Pass
		2441	2DH5	1	7.82	-12.18	Pass
		2480	2DH5	1	7.82	-12.18	Pass
		HOPP	2DH5	1	7.82	-12.18	Pass
8DPSK	SISO	2402	3DH5	1	7.58	-12.42	Pass
		2441	3DH5	1	7.58	-12.42	Pass
		2480	3DH5	1	7.58	-12.42	Pass
		HOPP	3DH5	1	7.58	-12.42	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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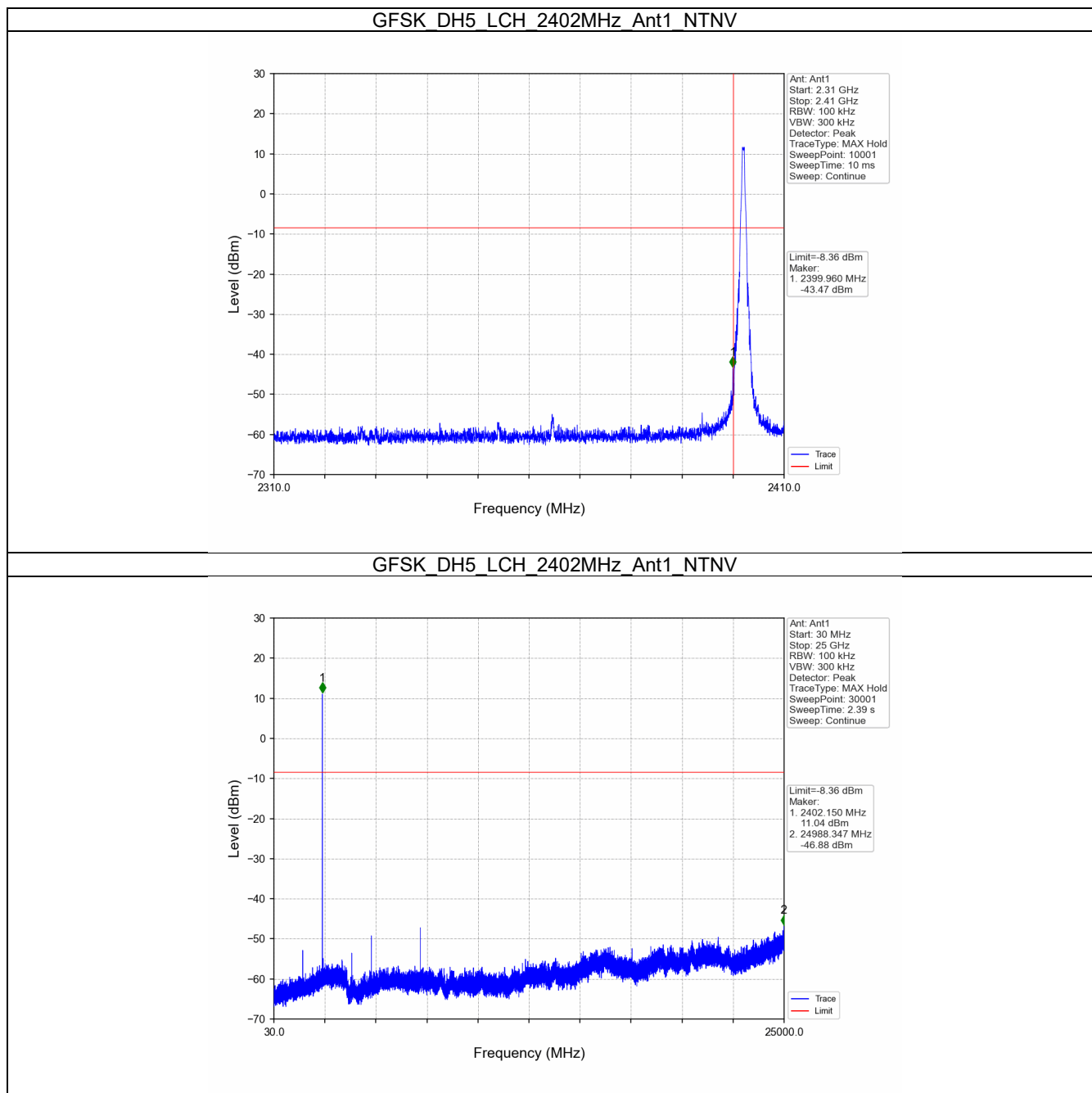
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## 6.2.2 Test Graph



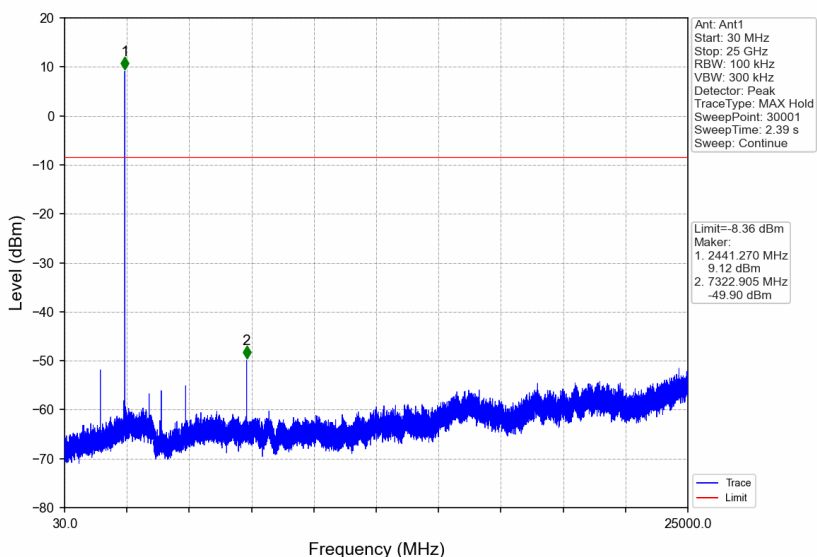
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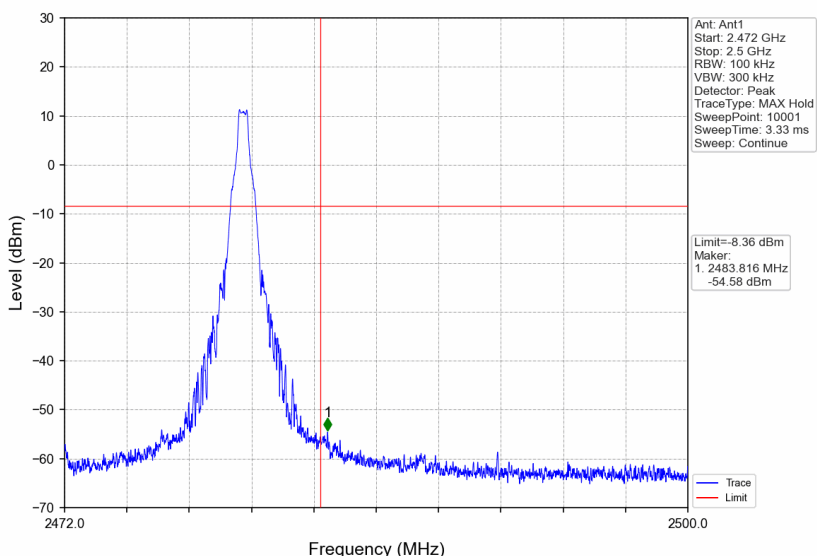
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GFSK DH5 MCH 2441MHz\_Ant1\_NTNV



GFSK DH5 HCH 2480MHz\_Ant1\_NTNV



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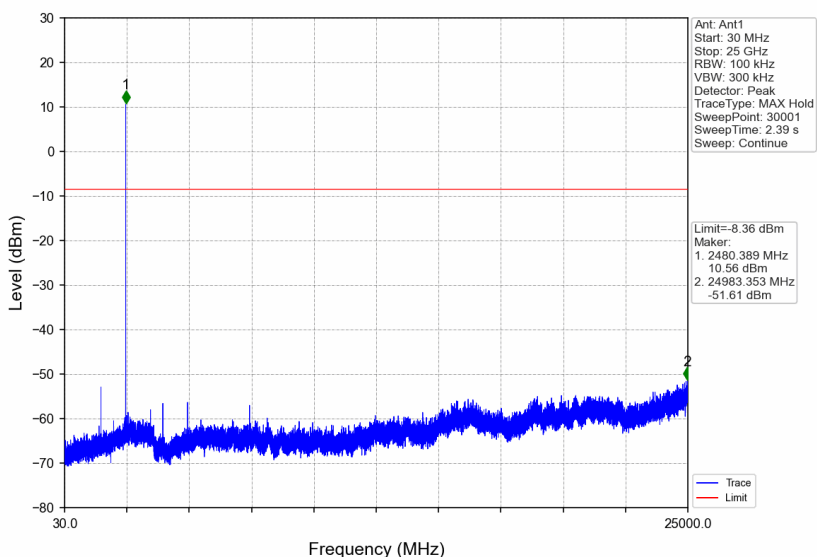
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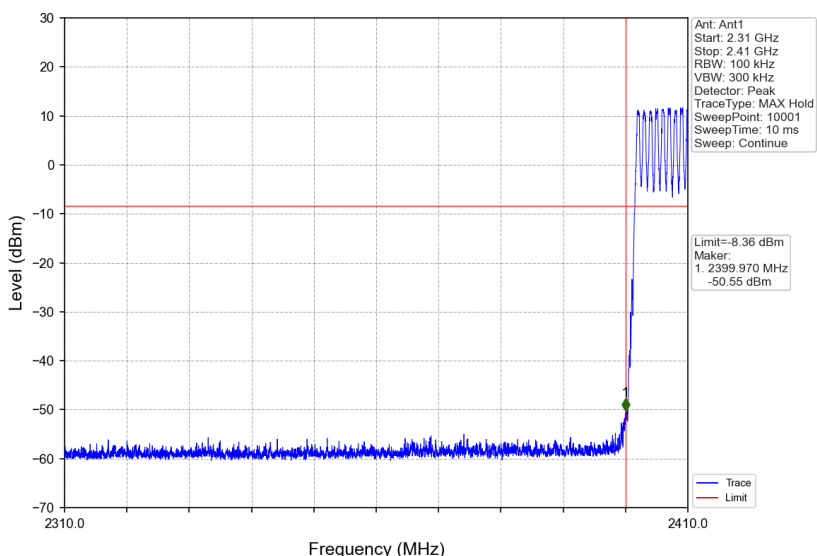
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



GFSK\_DH5\_HOPP\_Ant1\_NTNV



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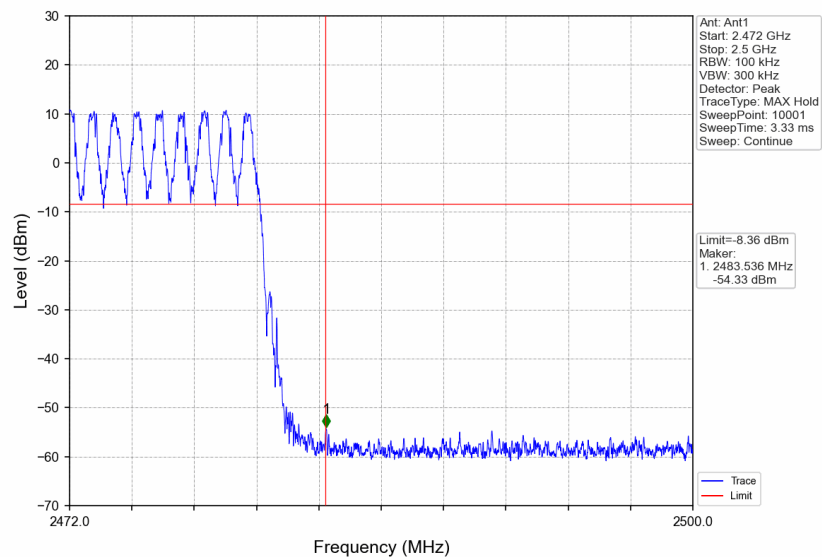
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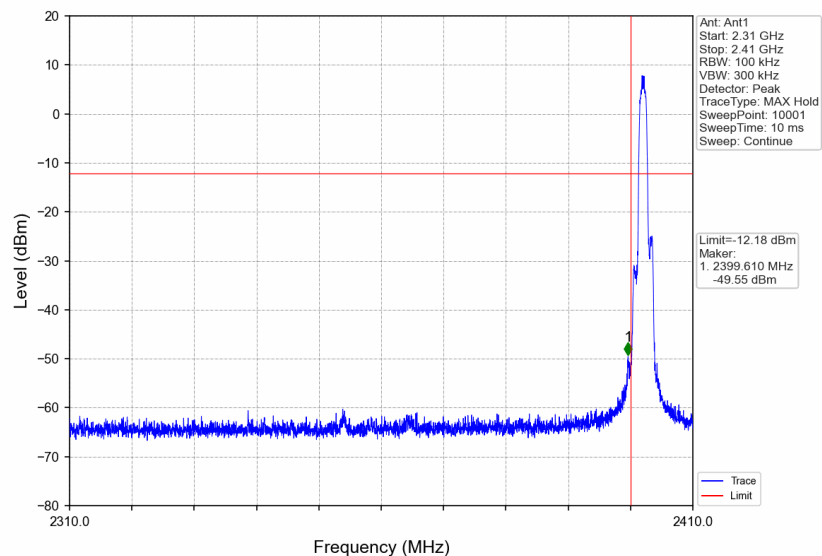
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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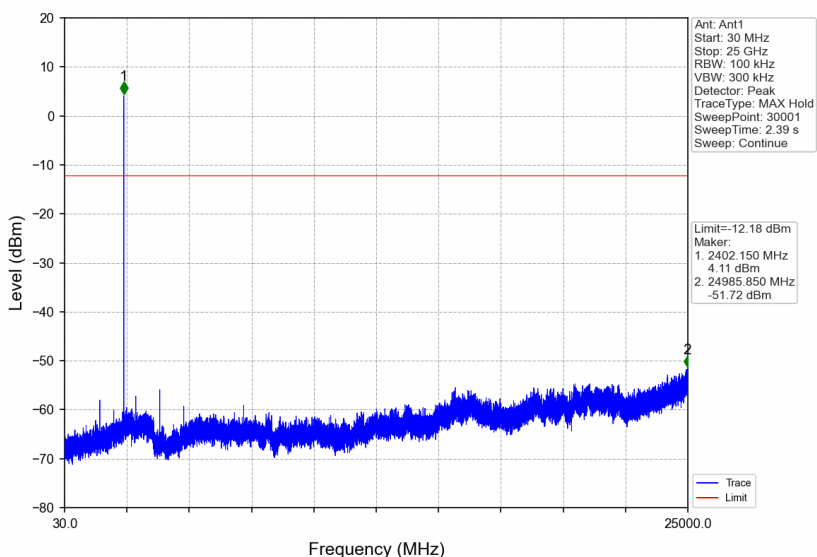
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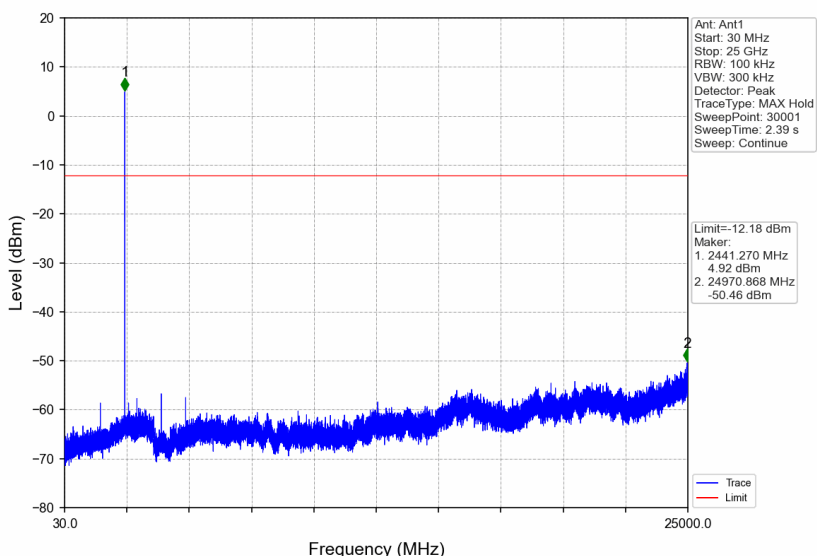
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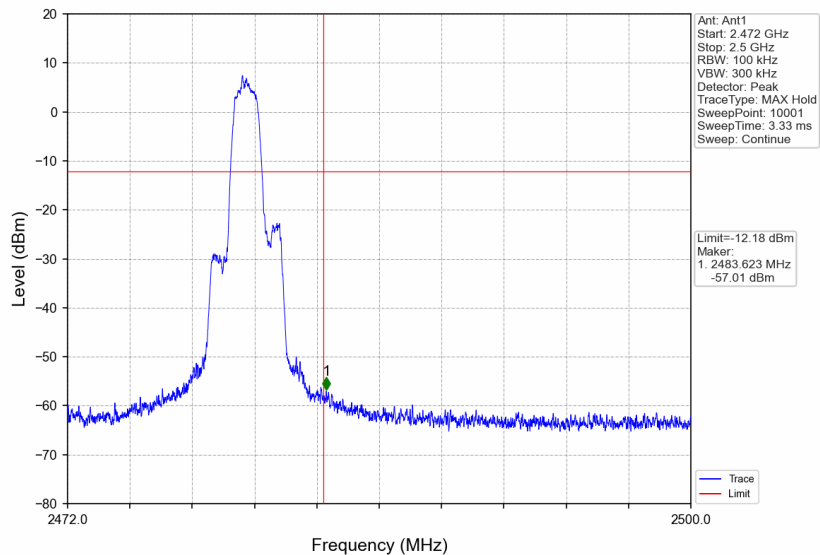
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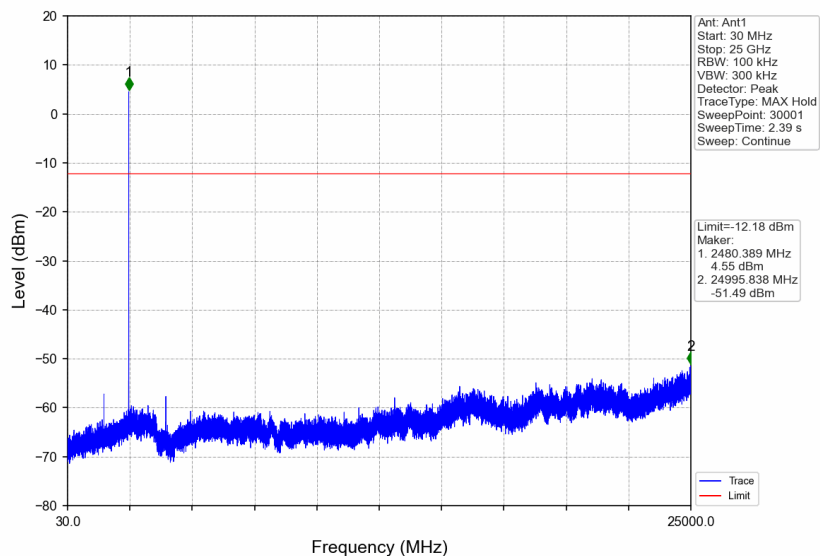
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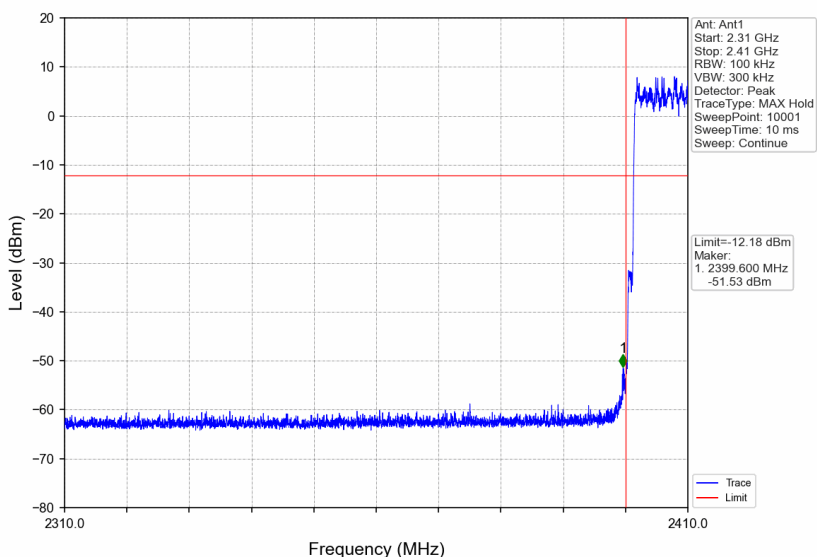
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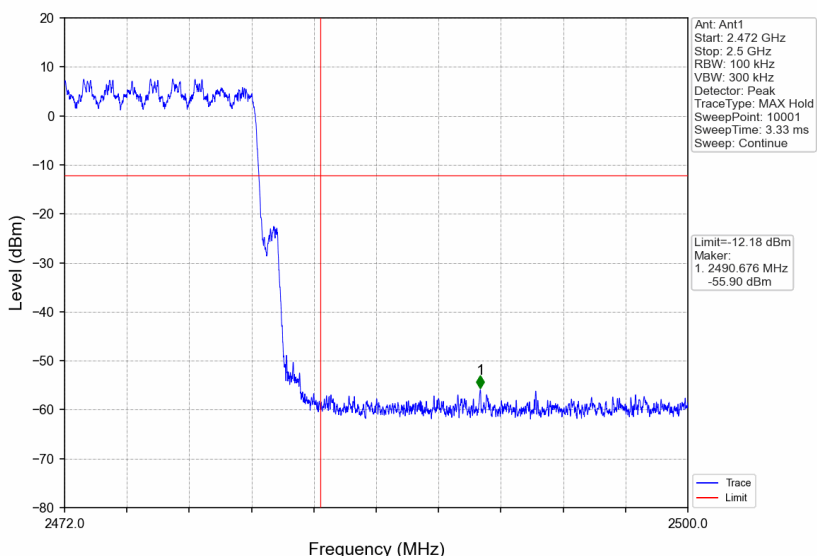
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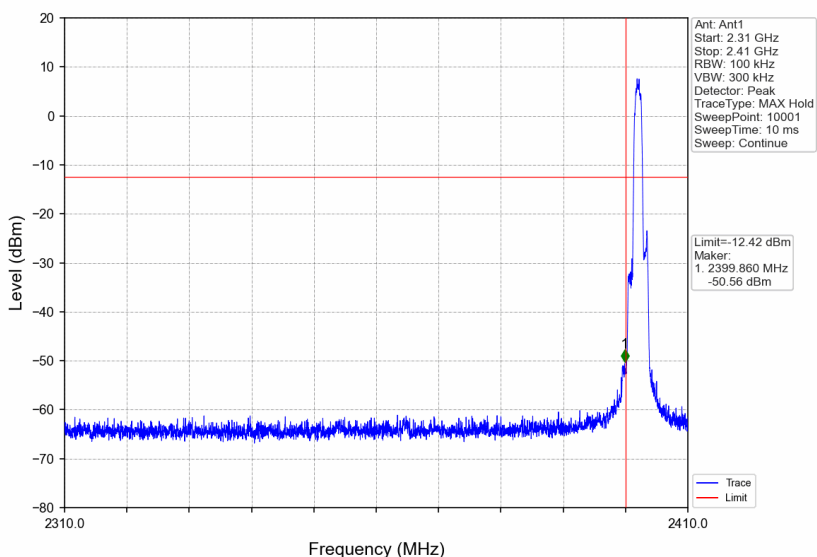
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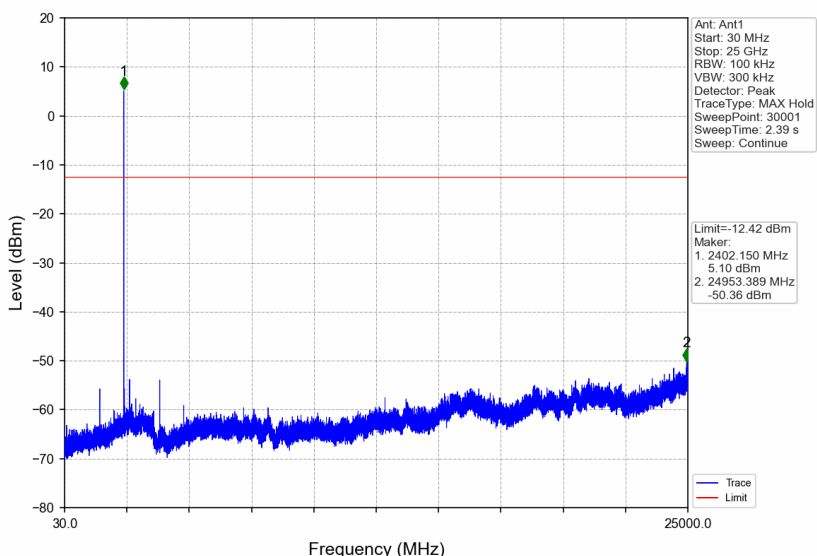
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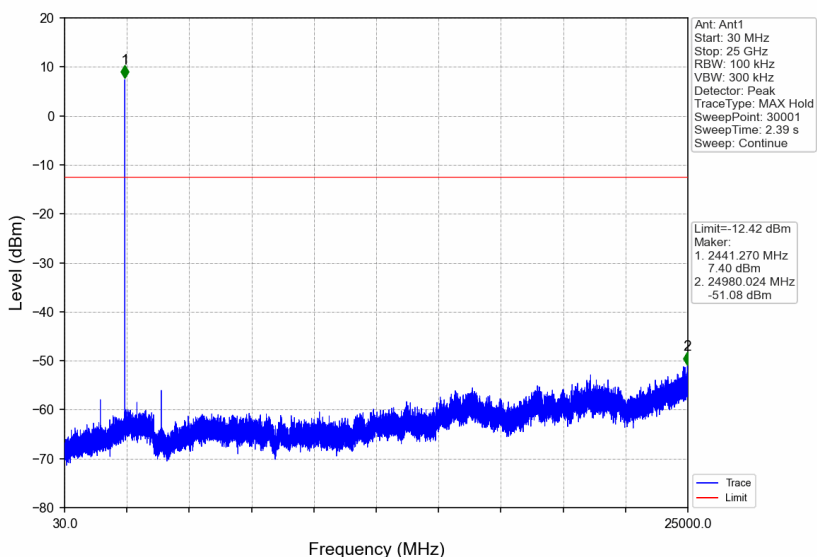
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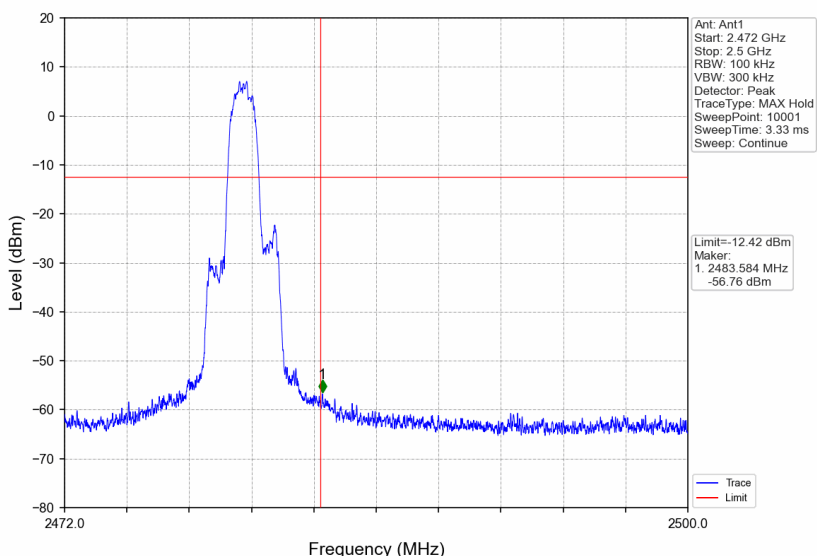
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8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



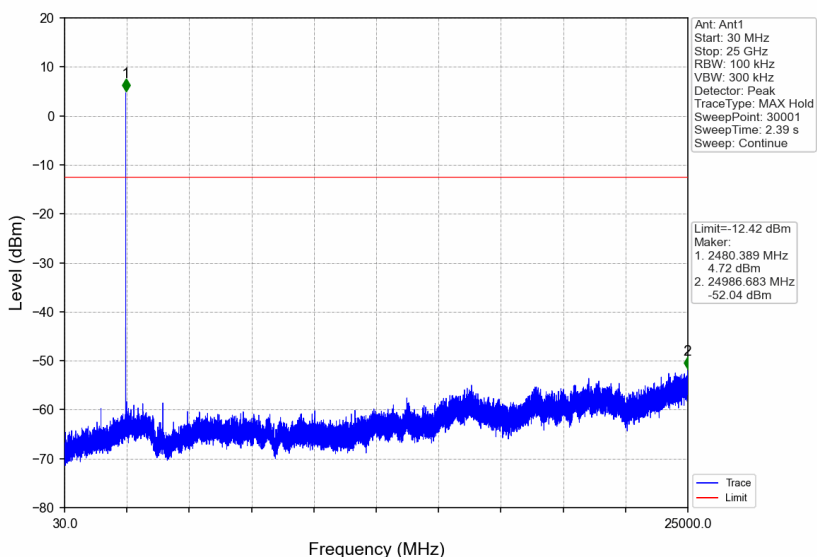
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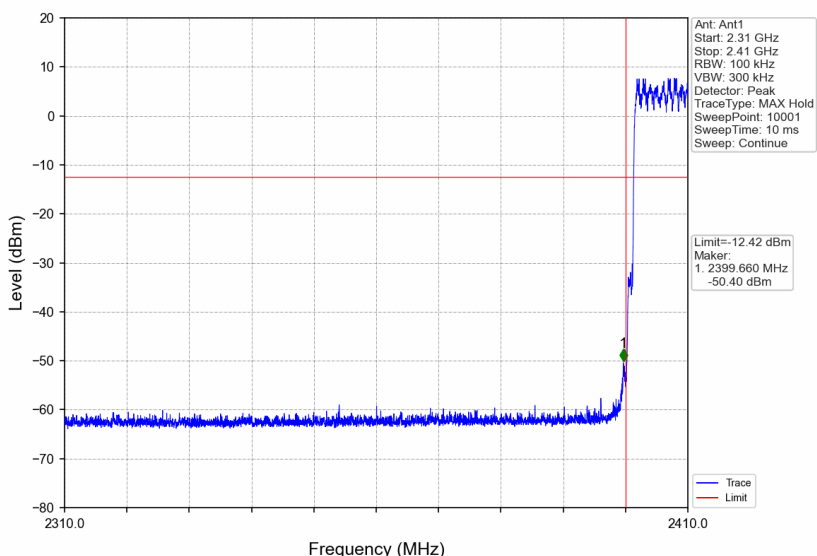
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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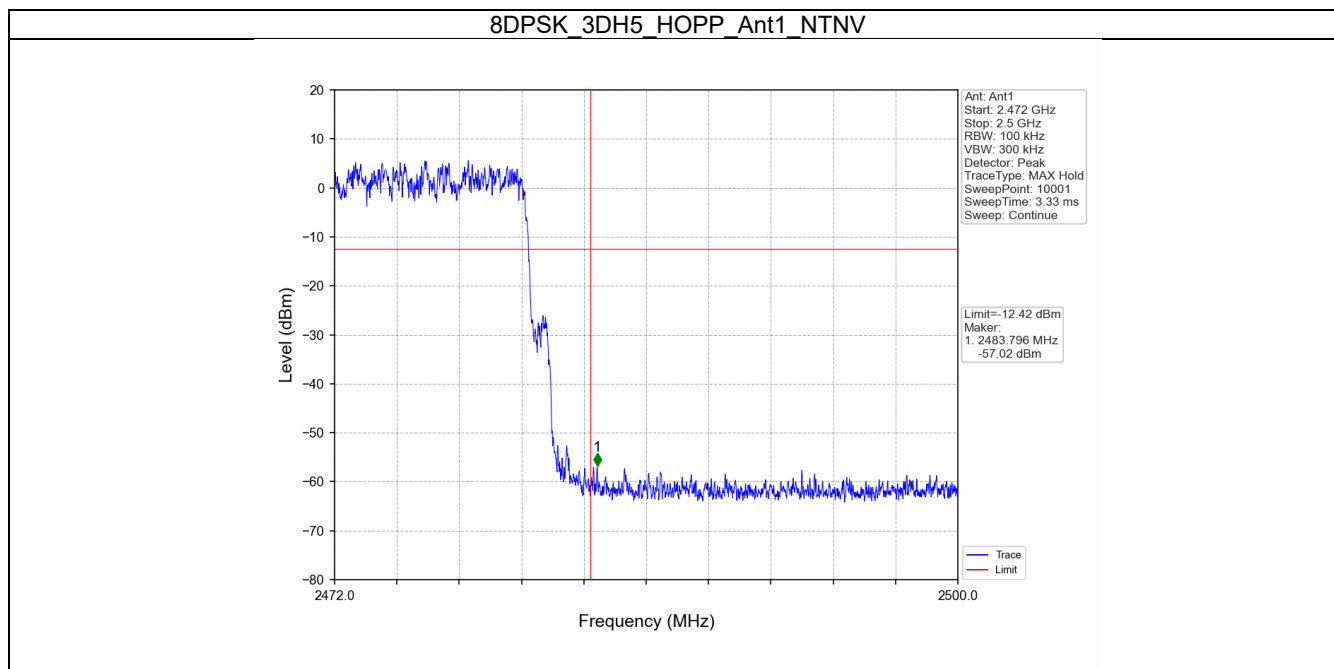
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