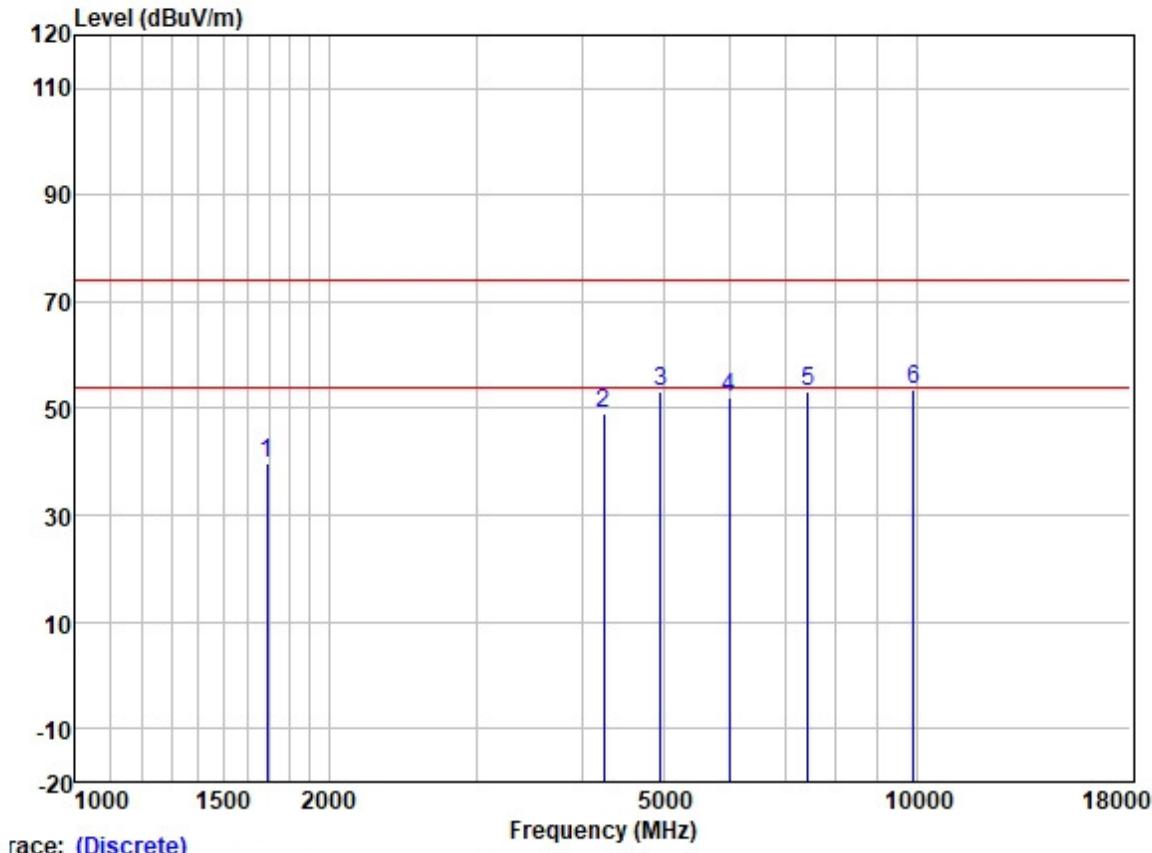


Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



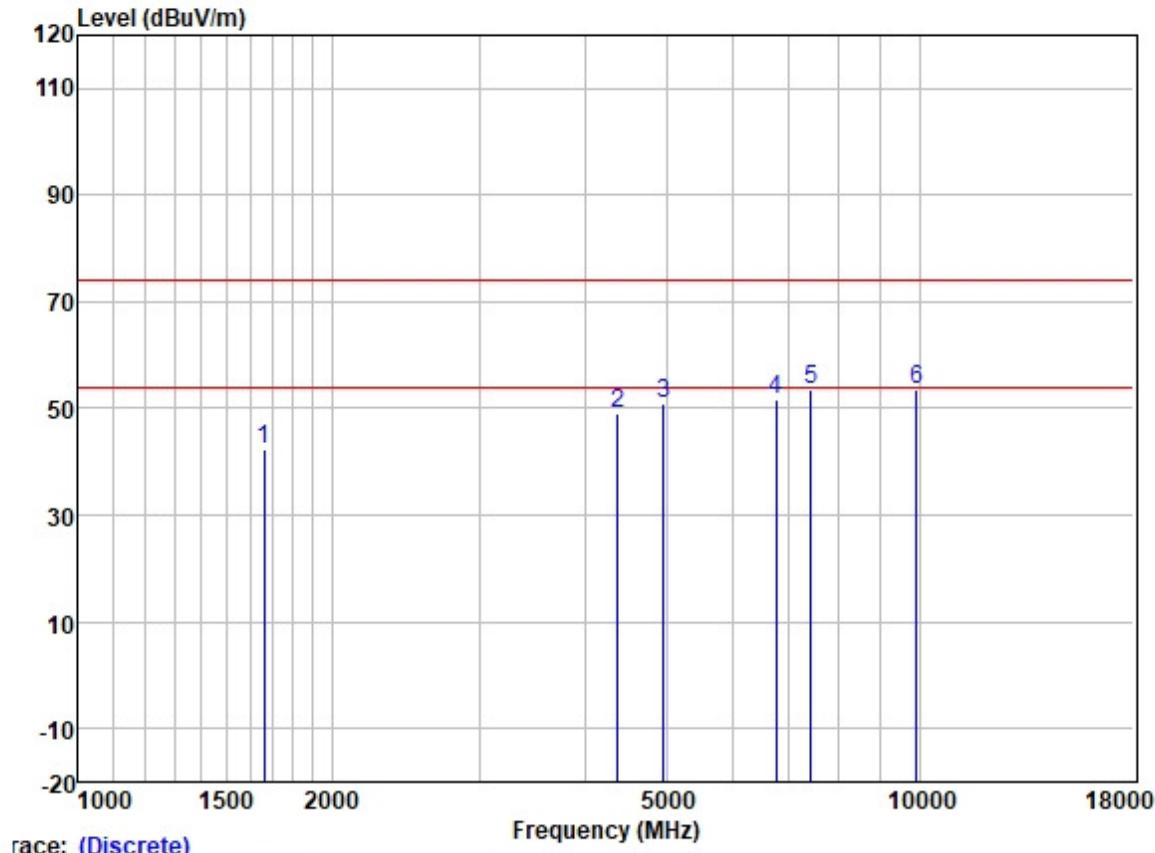
	ReadAntenna	Cable	Preamp	Limit	Over					
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	49.07	25.70	2.80	37.89	39.68	74.00	-34.32	HORIZONTAL	Peak
2	4242.641	50.90	30.30	4.62	36.81	49.01	74.00	-24.99	HORIZONTAL	Peak
3	4960.000	52.69	31.65	5.65	36.84	53.15	74.00	-20.85	HORIZONTAL	Peak
4	5984.305	50.37	32.39	6.15	36.90	52.01	74.00	-21.99	HORIZONTAL	Peak
5	7440.000	48.00	36.27	6.22	37.47	53.02	74.00	-20.98	HORIZONTAL	Peak
6	9920.000	45.23	38.65	6.96	37.40	53.44	74.00	-20.56	HORIZONTAL	Peak

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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1663.137	51.76	25.65	2.80	37.91	42.30	74.00	-31.70	VERTICAL	Peak		
2 4379.699	50.61	30.64	4.69	36.81	49.13	74.00	-24.87	VERTICAL	Peak		
3 4960.000	50.44	31.65	5.65	36.84	50.90	74.00	-23.10	VERTICAL	Peak		
4 6756.708	48.31	34.56	5.82	37.10	51.59	74.00	-22.41	VERTICAL	Peak		
5 7440.000	48.58	36.27	6.22	37.47	53.60	74.00	-20.40	VERTICAL	Peak		
6 9920.000	45.28	38.65	6.96	37.40	53.49	74.00	-20.51	VERTICAL	Peak		

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2110021205AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021205AT

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## 10 Appendix

### 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	0.830		Pass
		2441	DH5	1	0.830		Pass
		2480	DH5	1	0.825		Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.164		Pass
		2441	2DH5	1	1.164		Pass
		2480	2DH5	1	1.164		Pass
8DPSK	SISO	2402	3DH5	1	1.173		Pass
		2441	3DH5	1	1.172		Pass
		2480	3DH5	1	1.174		Pass

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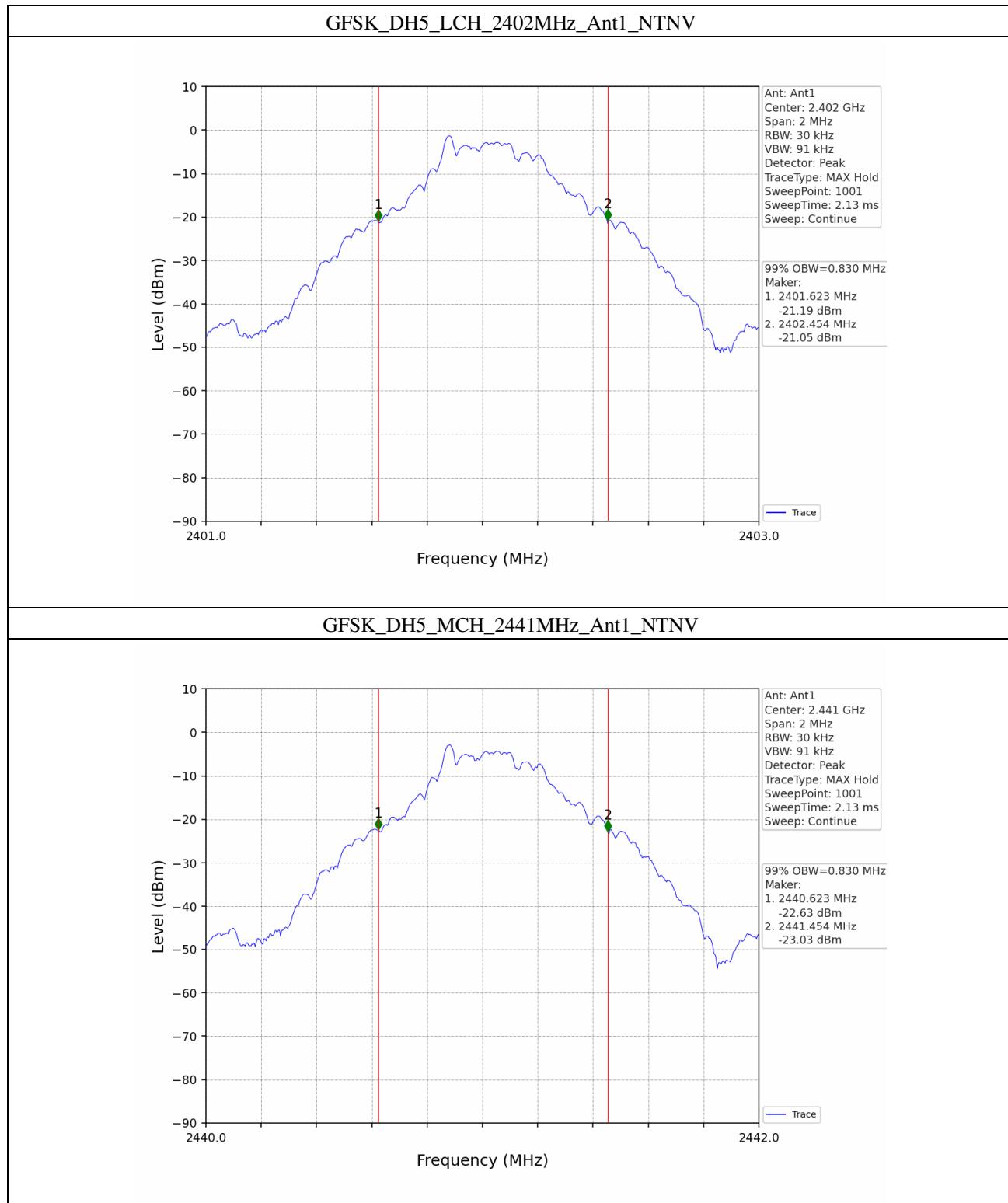
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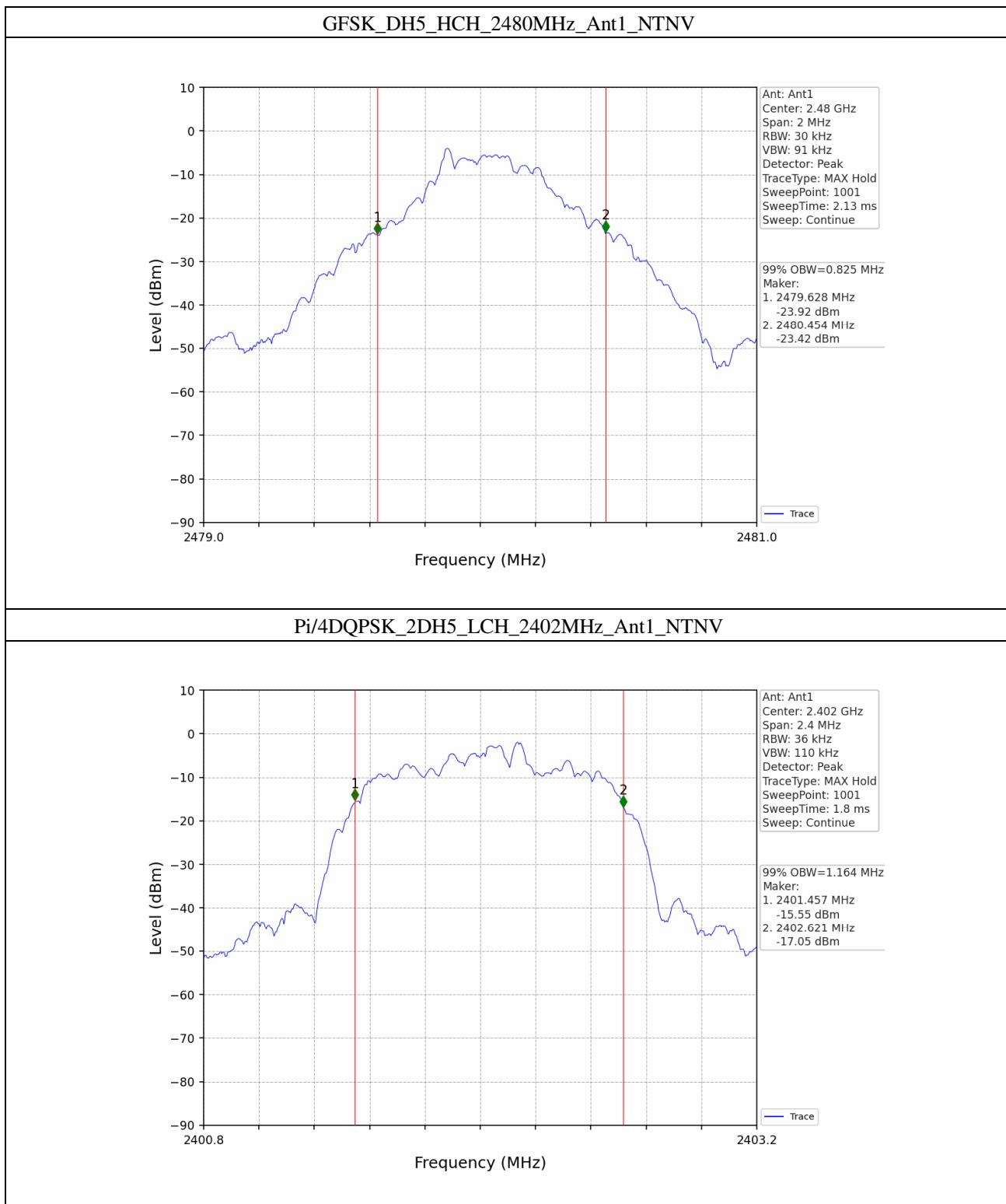
**1.1.2 Test Graph**

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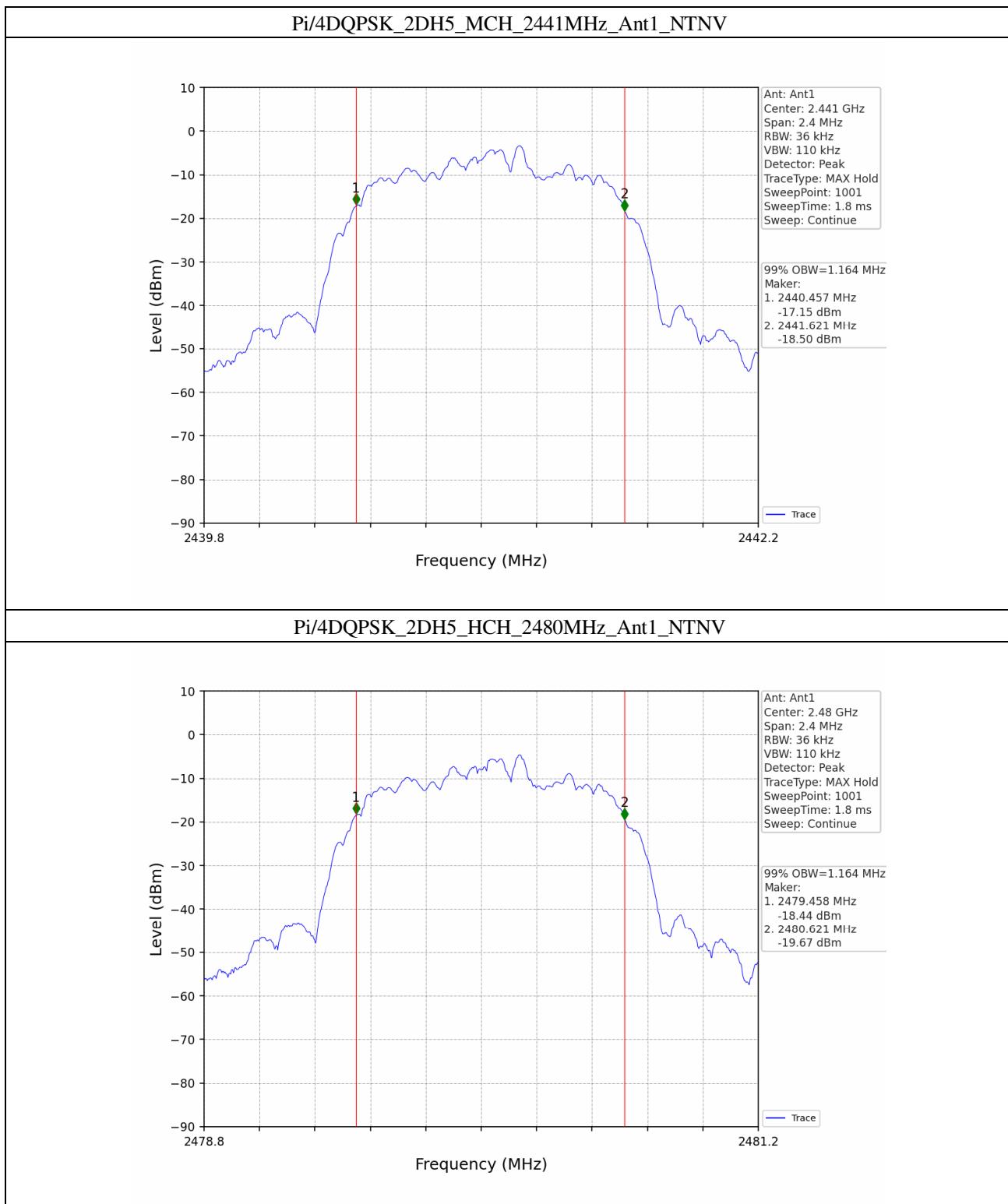


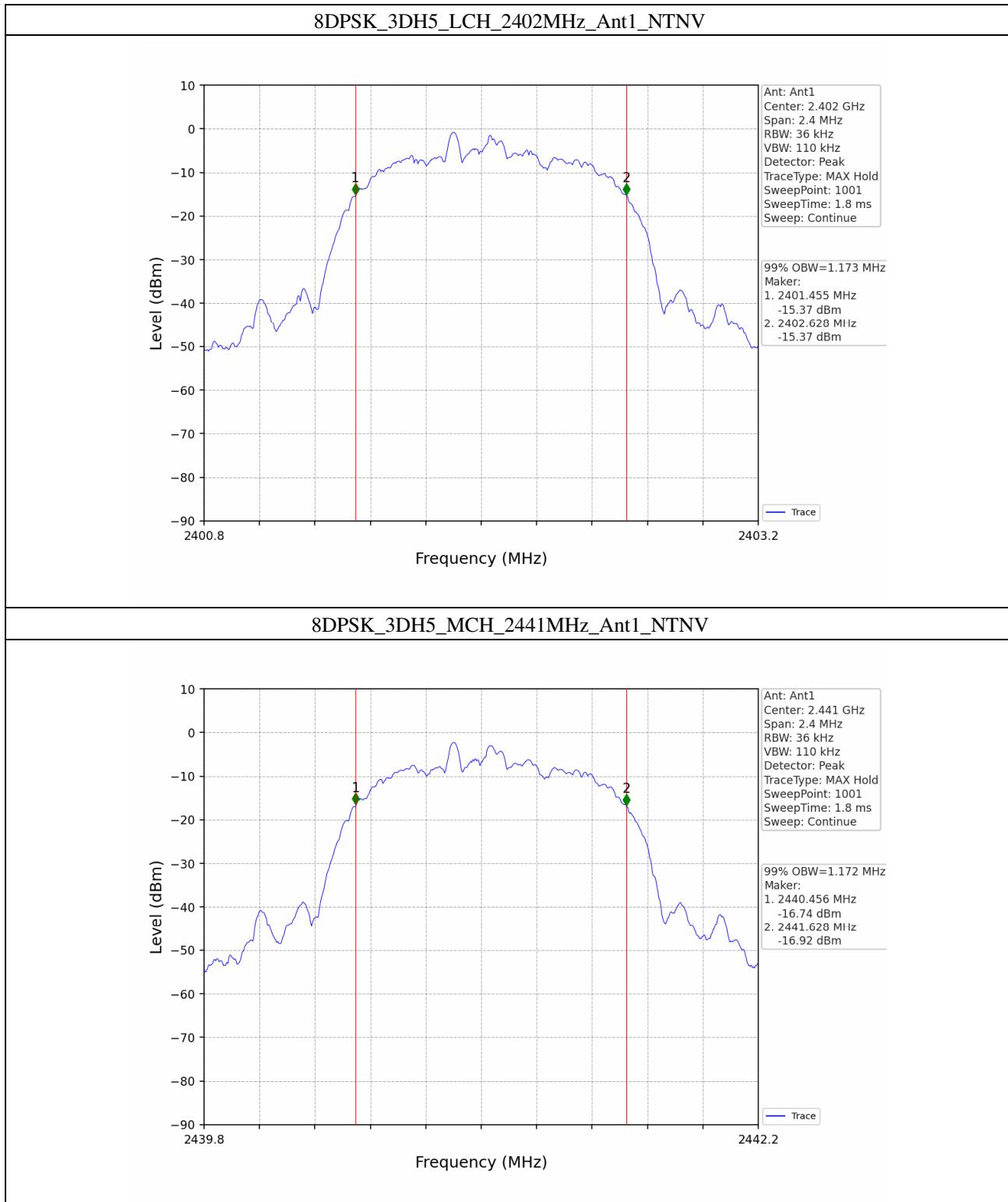
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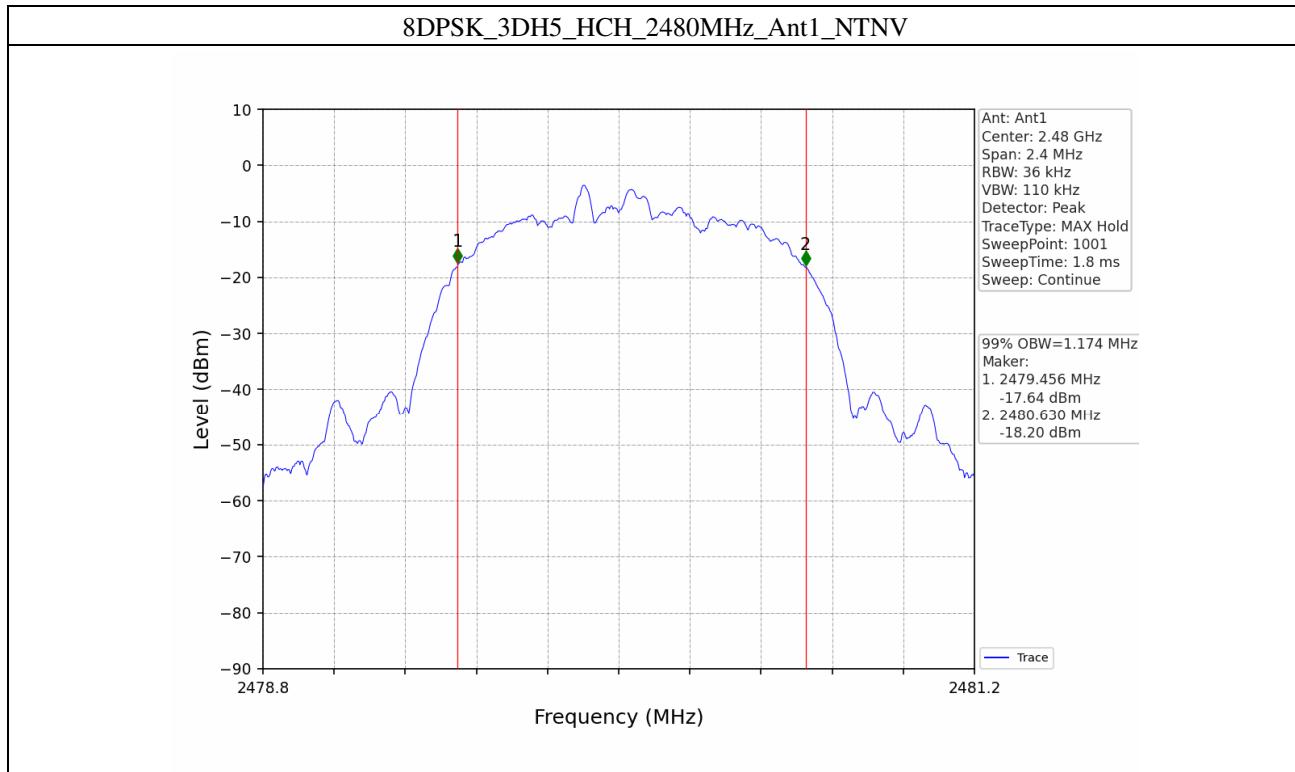


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**1.2 20dB BW****1.2.1 Test Result**

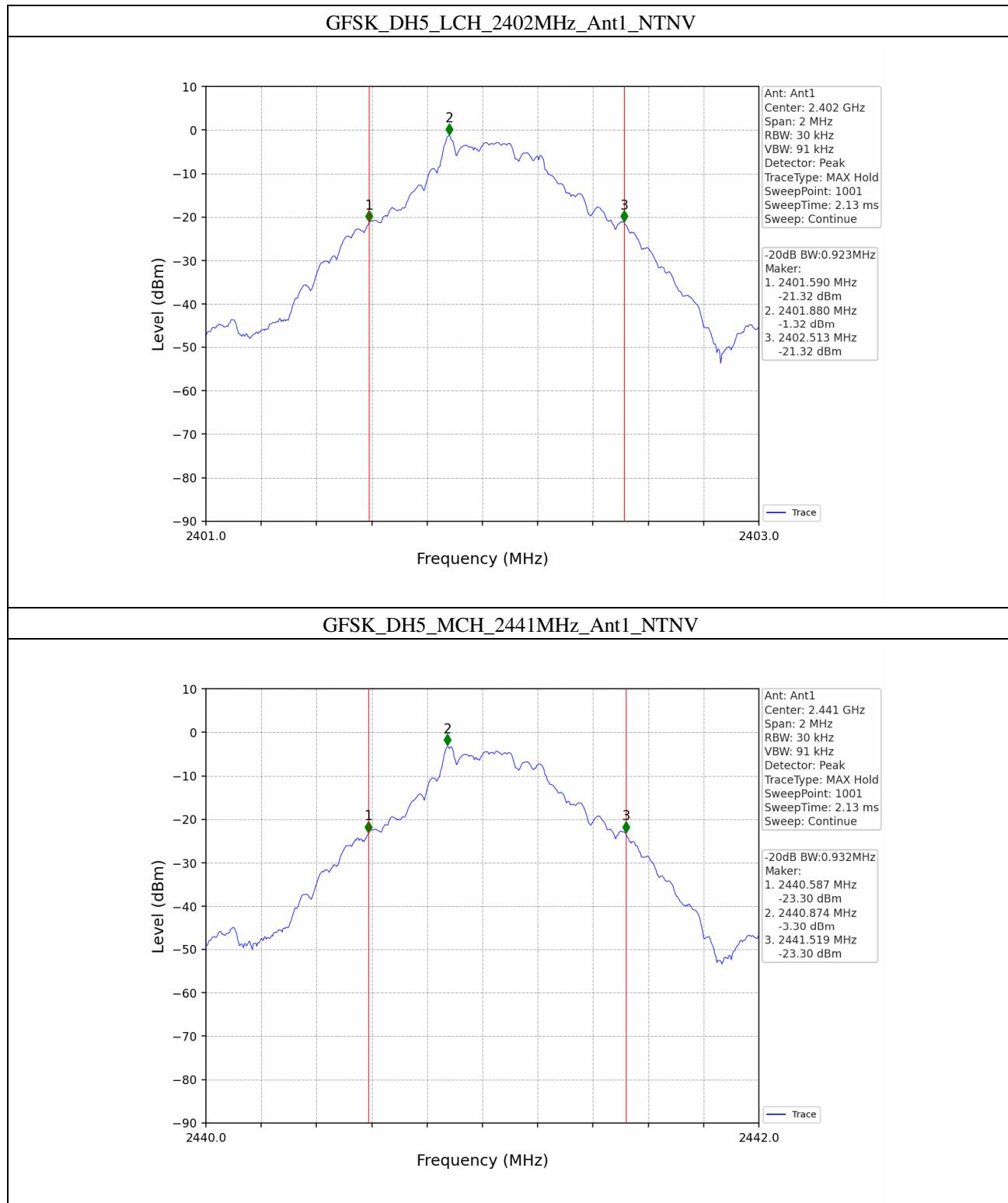
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.923	Pass
		2441	DH5	1	0.932	Pass
		2480	DH5	1	0.923	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.321	Pass
		2441	2DH5	1	1.318	Pass
		2480	2DH5	1	1.316	Pass
8DPSK	SISO	2402	3DH5	1	1.295	Pass
		2441	3DH5	1	1.299	Pass
		2480	3DH5	1	1.295	Pass

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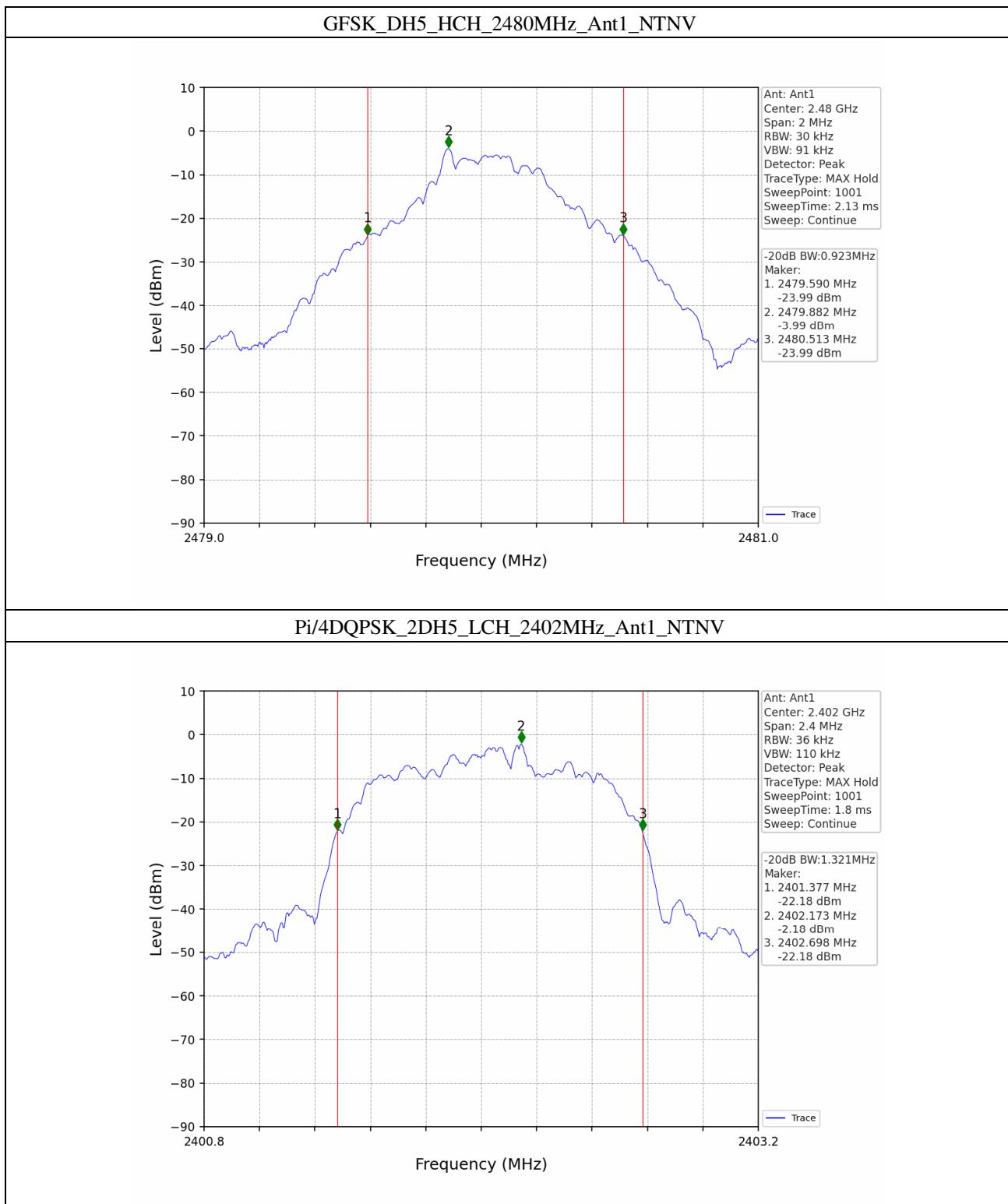
## 1.2.2 Test Graph



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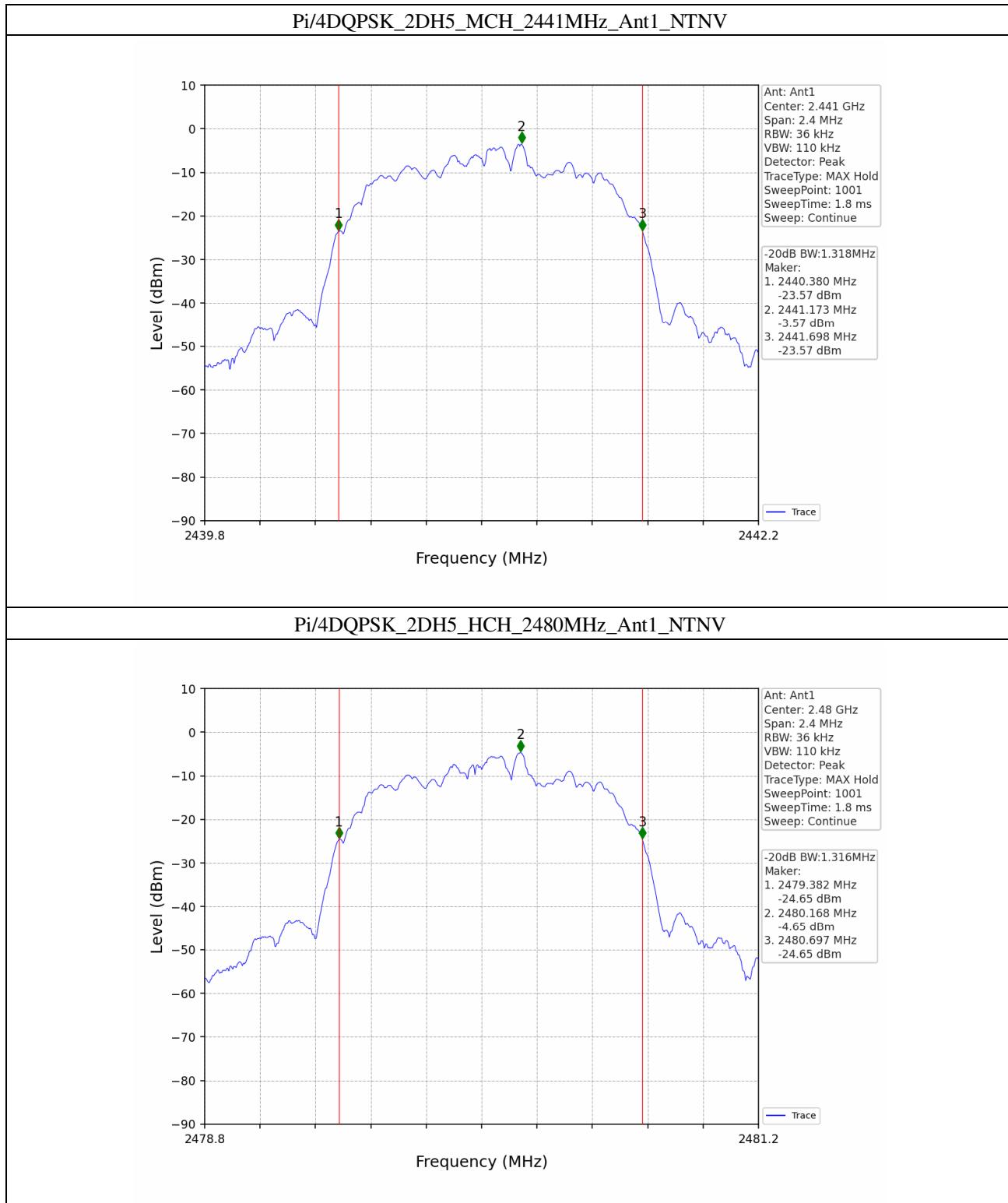


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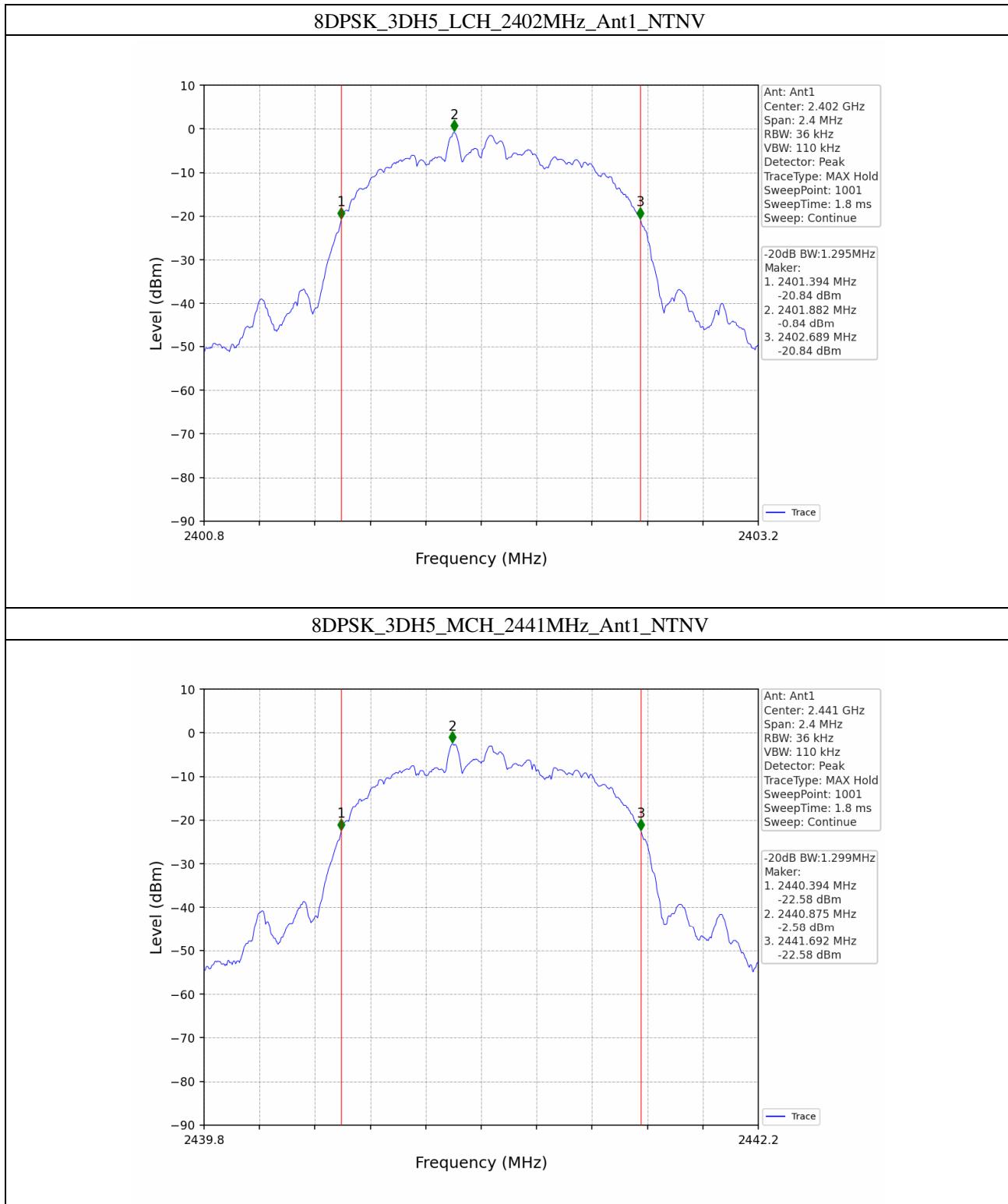


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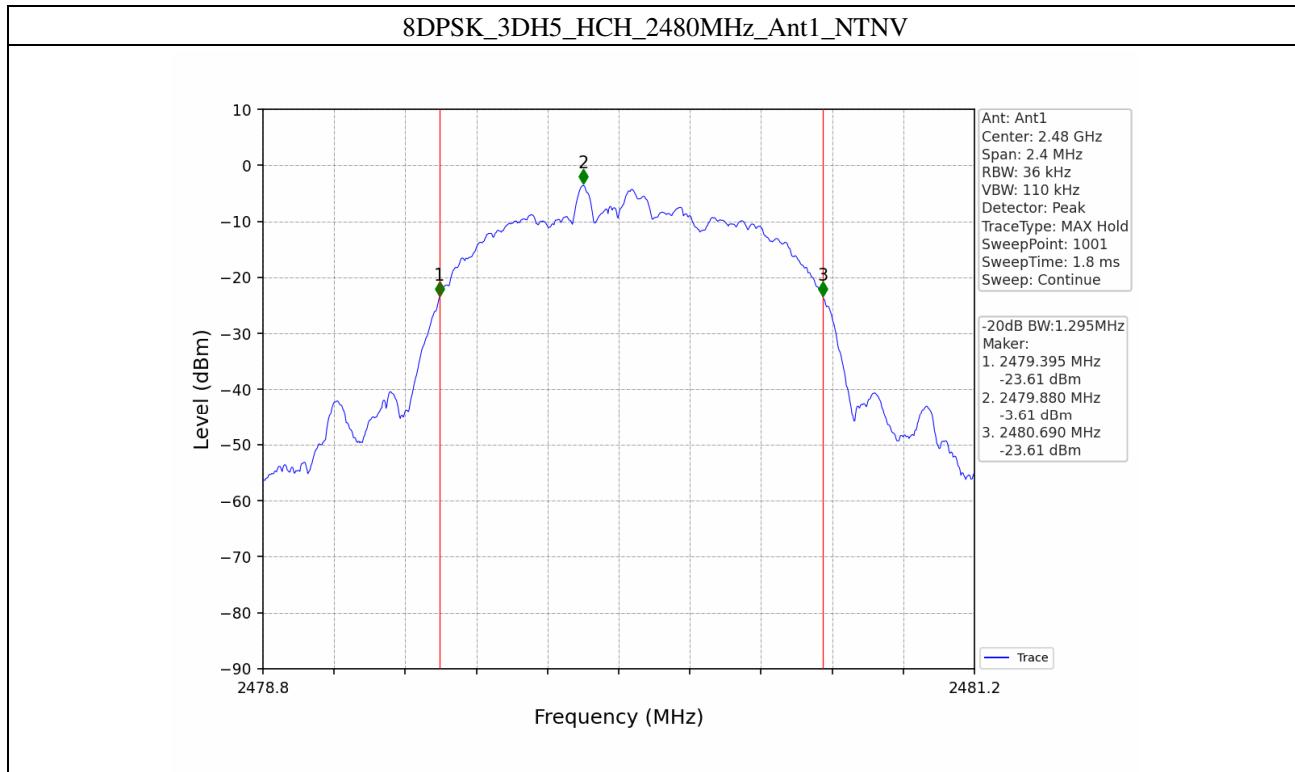


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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				Ant1	Limit	
GFSK	SISO	2402	DH5	-0.30	<=20.97	Pass
		2441	DH5	-1.85	<=20.97	Pass
		2480	DH5	-2.99	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.25	<=20.97	Pass
		2441	2DH5	0.70	<=20.97	Pass
		2480	2DH5	-0.59	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.75	<=20.97	Pass
		2441	3DH5	1.19	<=20.97	Pass
		2480	3DH5	-0.11	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.67dBi;

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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	1.000	0.932	>=0.932	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.997	1.321	>=0.881	Pass
8DPSK	SISO	HOPP	3DH5	0.997	1.299	>=0.866	Pass

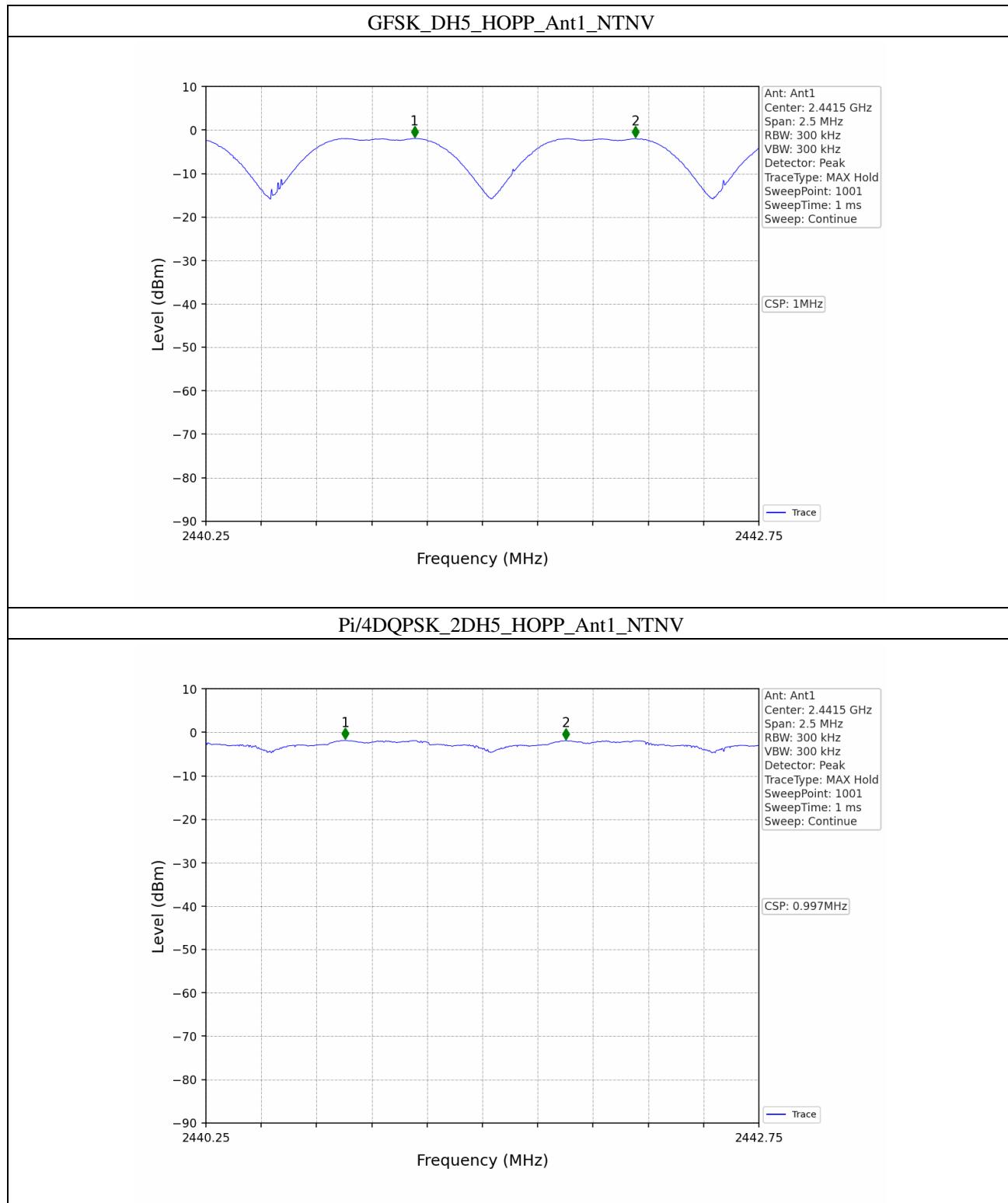
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### 3.1.2 Test Graph

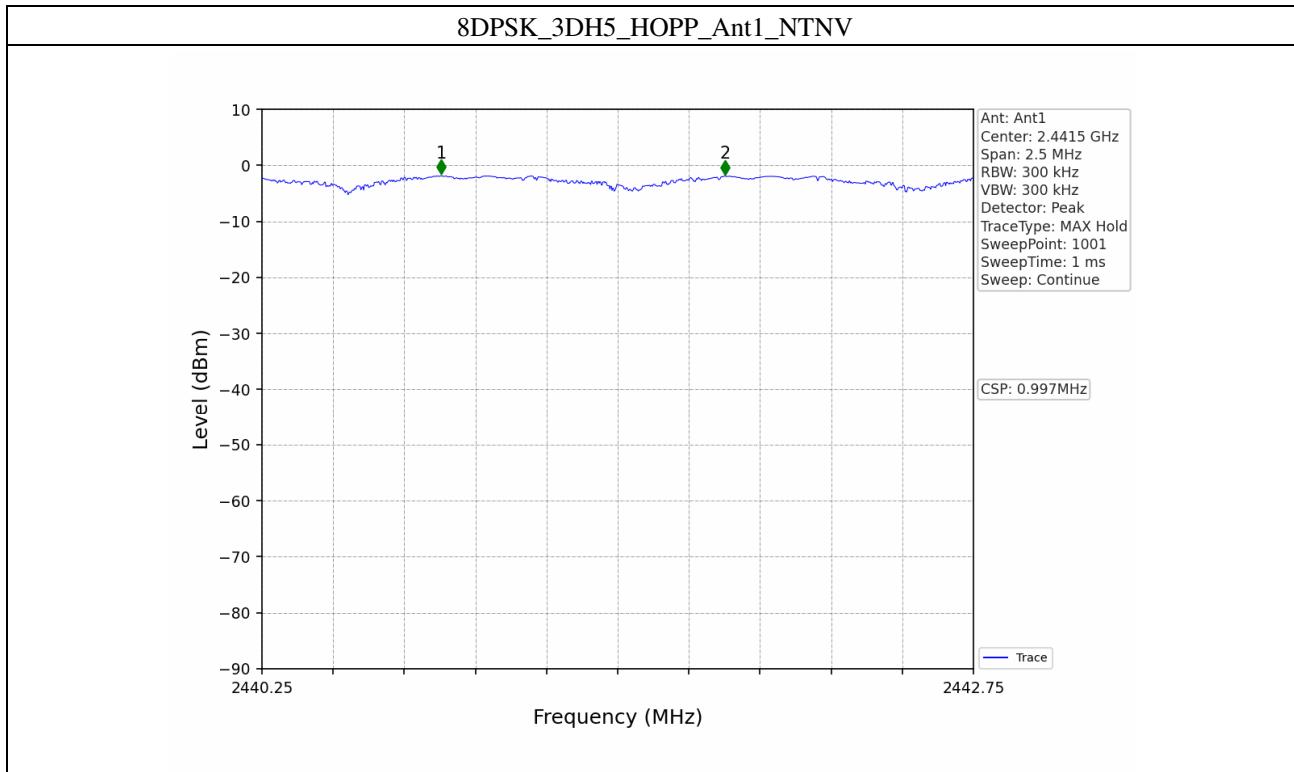


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## 4. Number of Hopping Frequencies

### 4.1 HoppNum

#### 4.1.1 Test Result

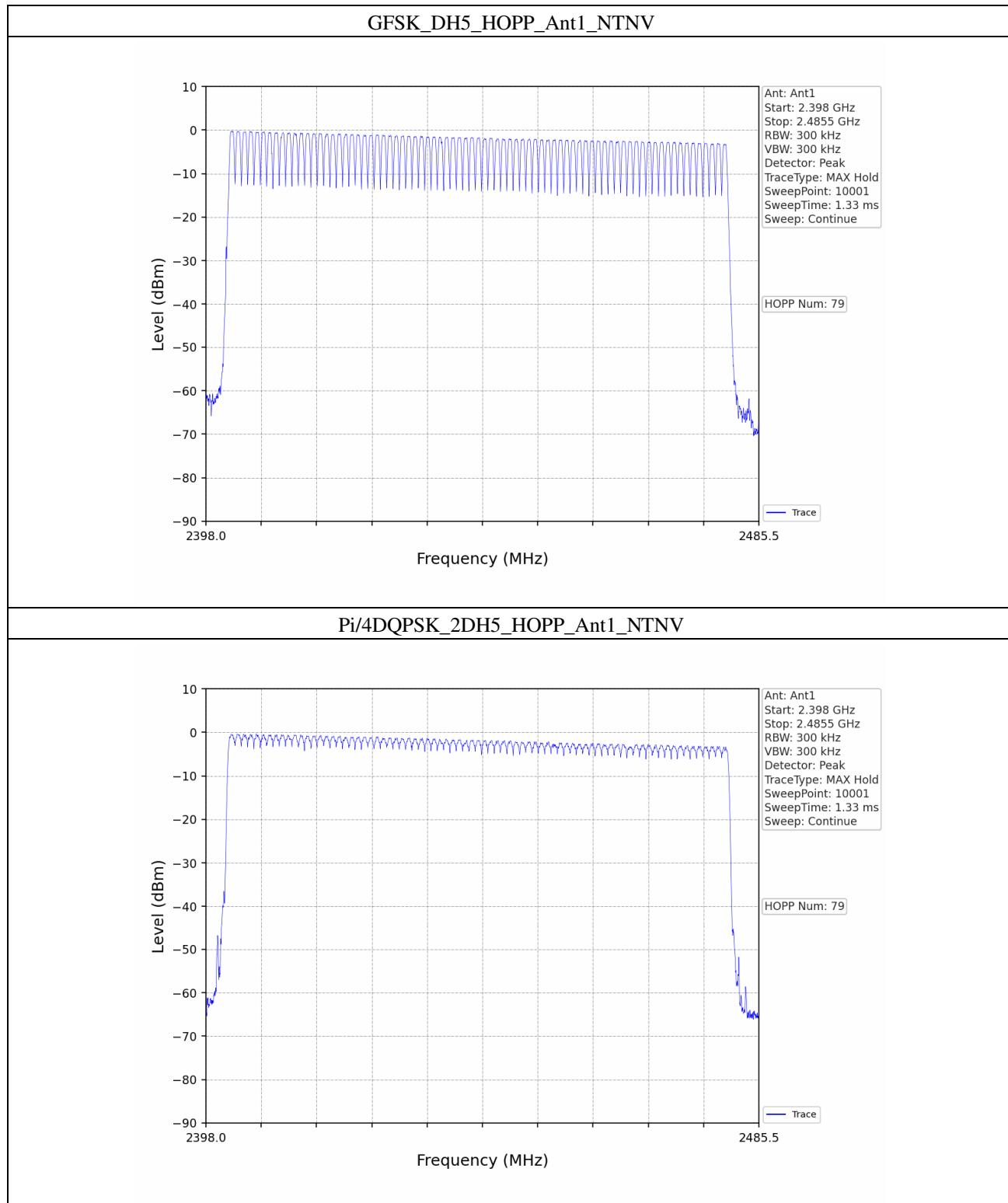
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				Ant1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

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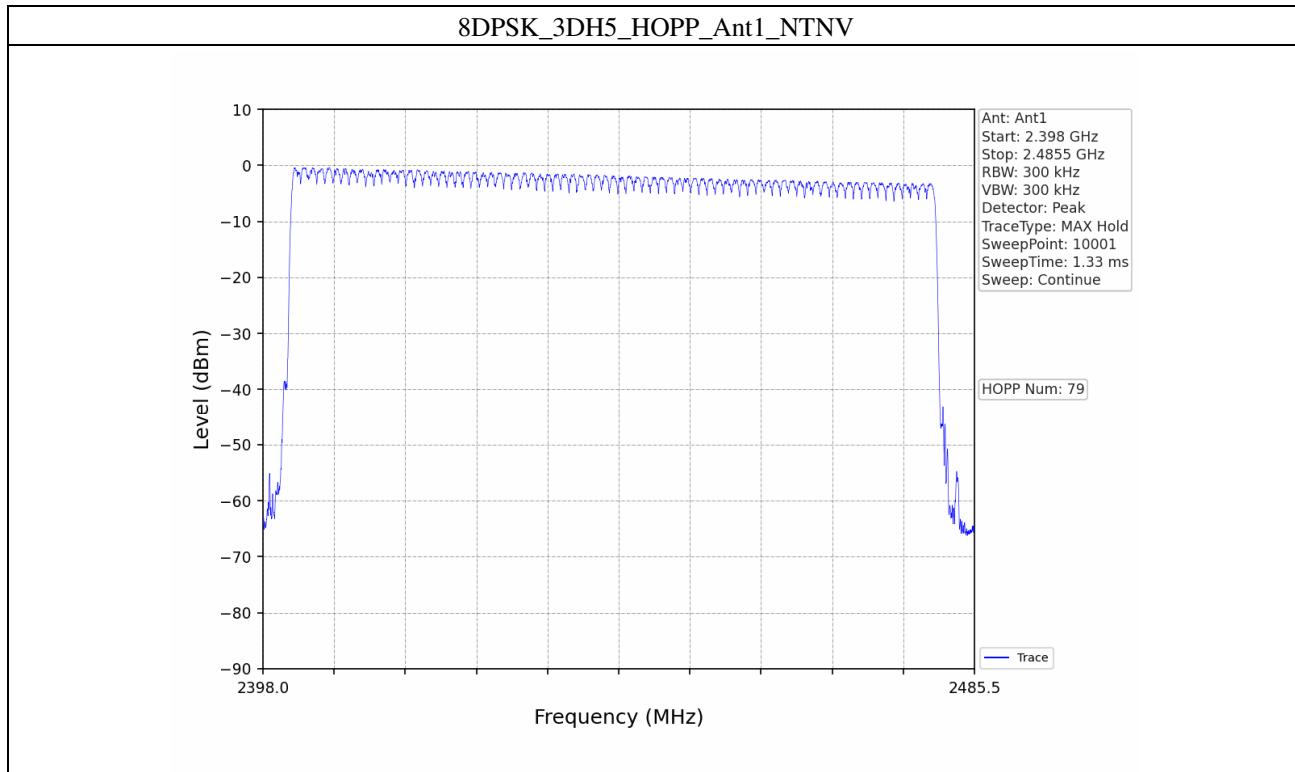
**4.1.2 Test Graph**

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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	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	153	250.920	<=400	Pass
			DH5	2.890	31.600	113	326.570	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.648	31.600	153	252.144	<=400	Pass
			2DH5	2.896	31.600	102	295.392	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.646	31.600	153	251.838	<=400	Pass
			3DH5	2.898	31.600	98	284.004	<=400	Pass

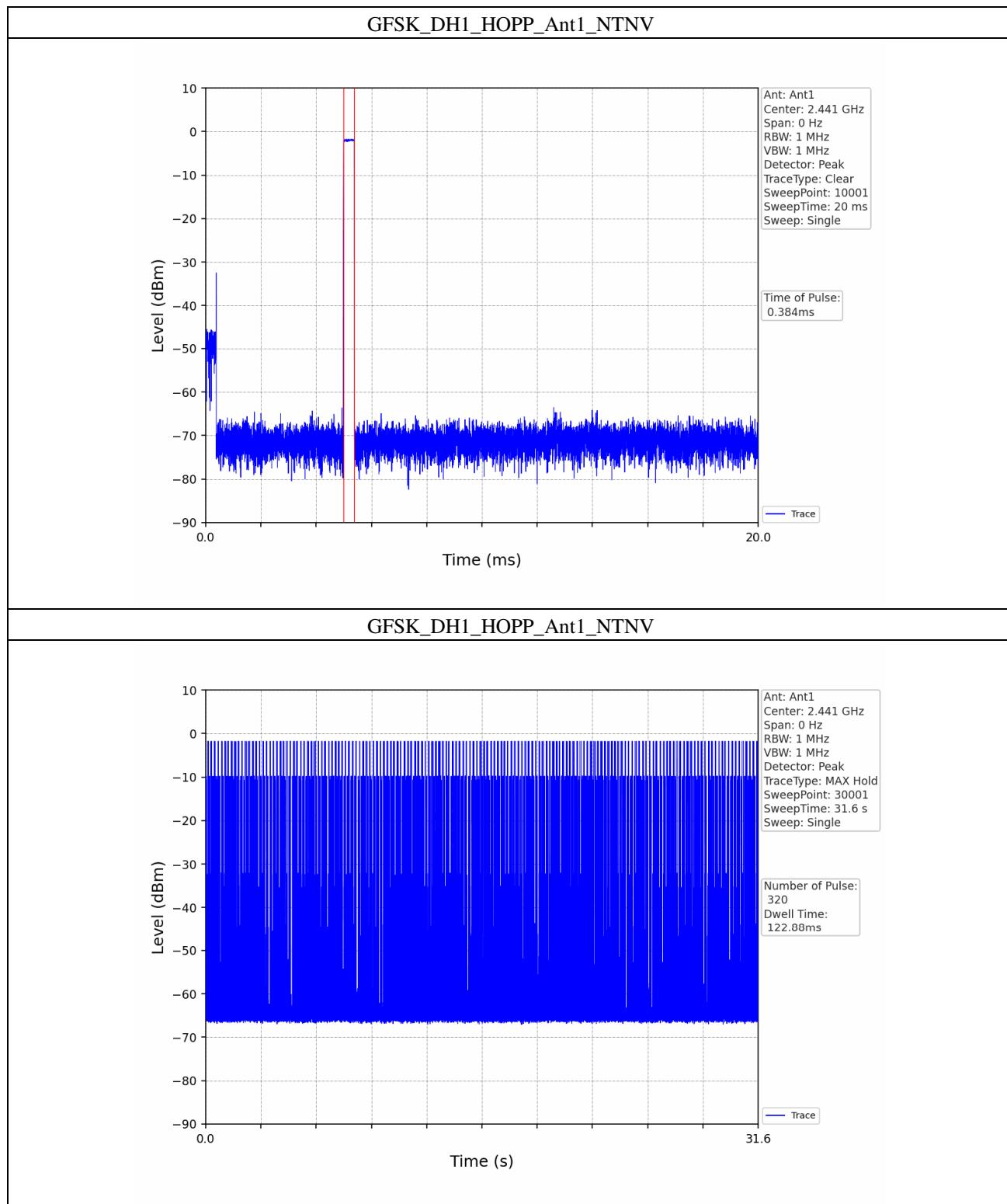
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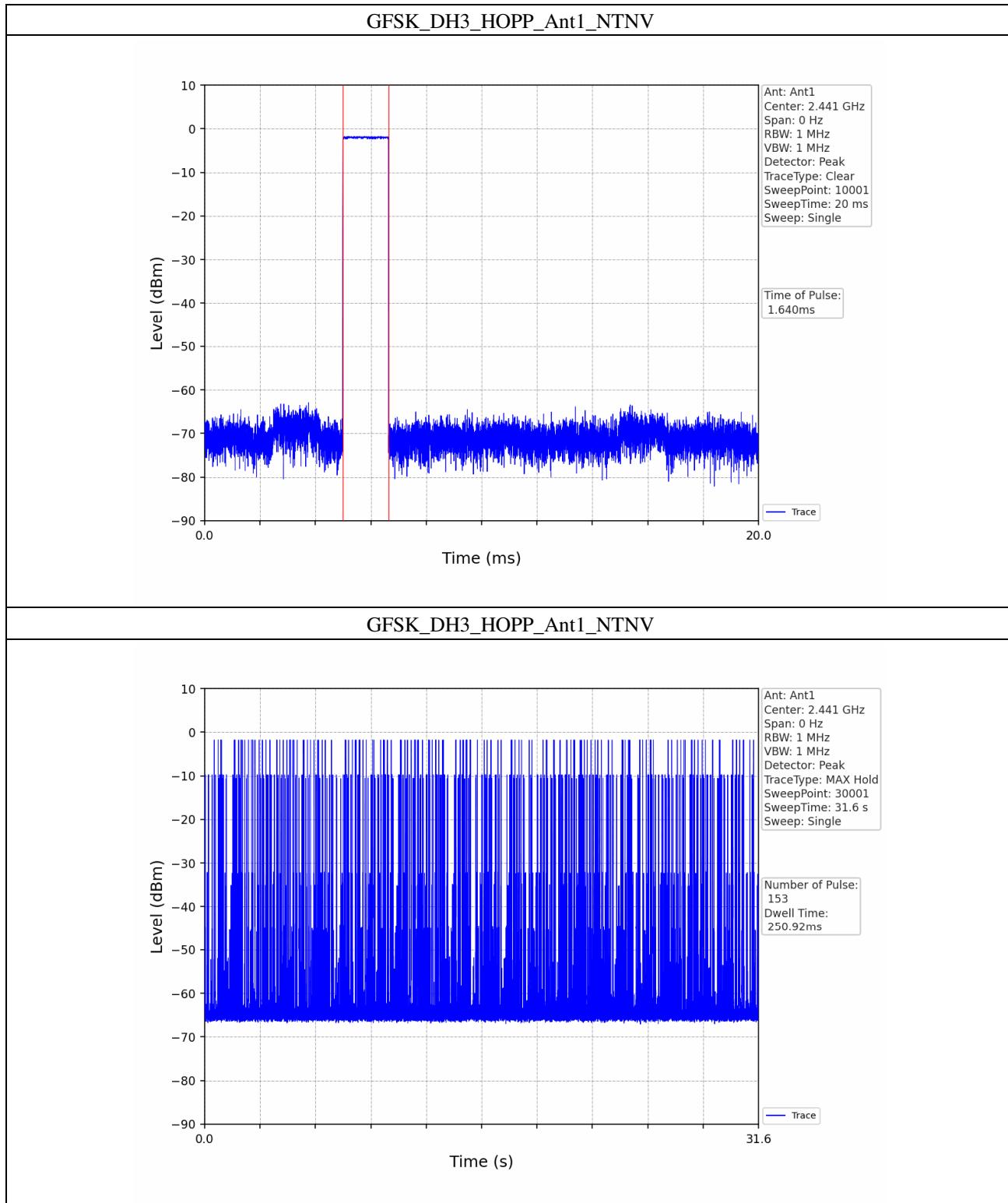
### 5.1.2 Test Graph



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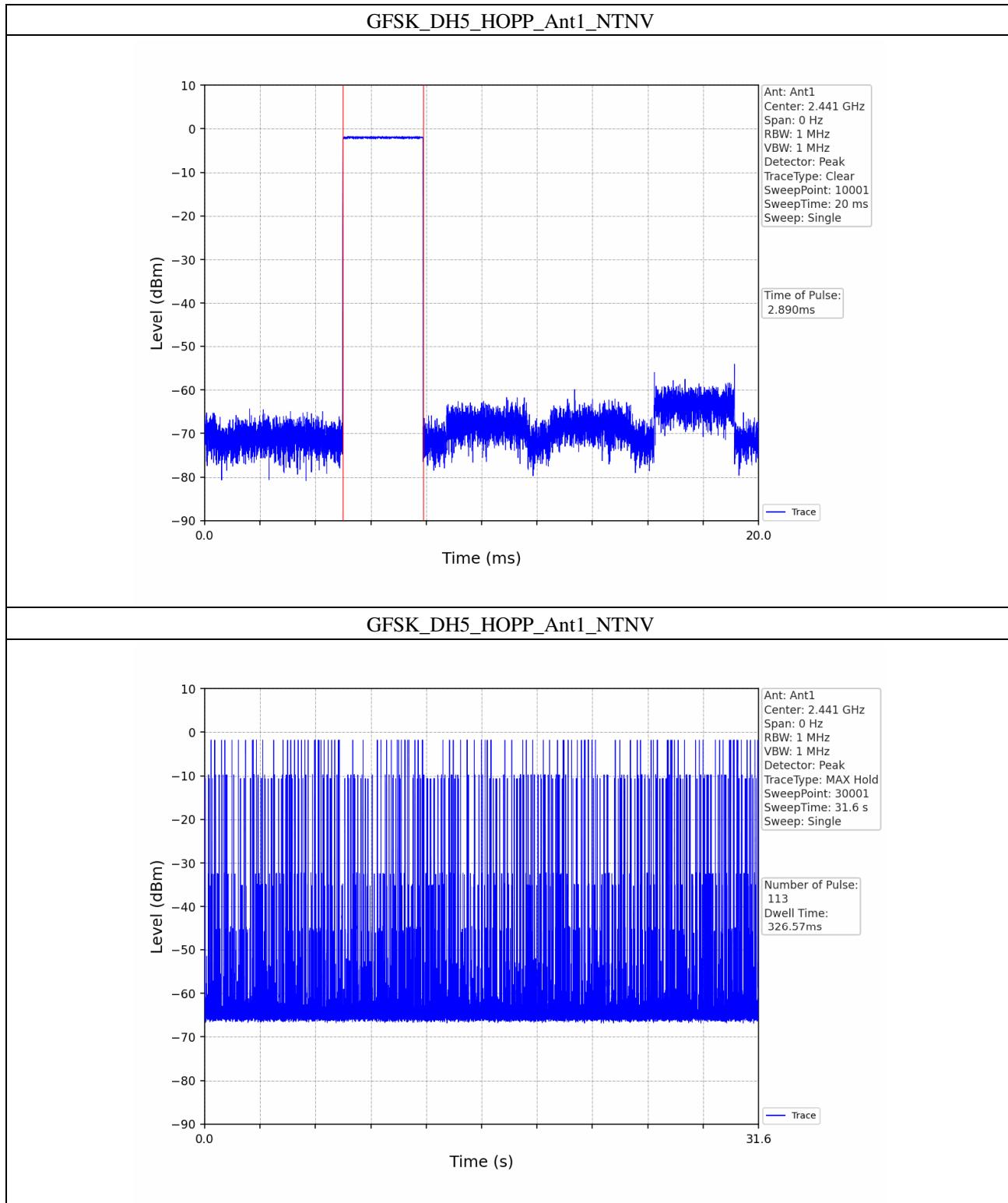
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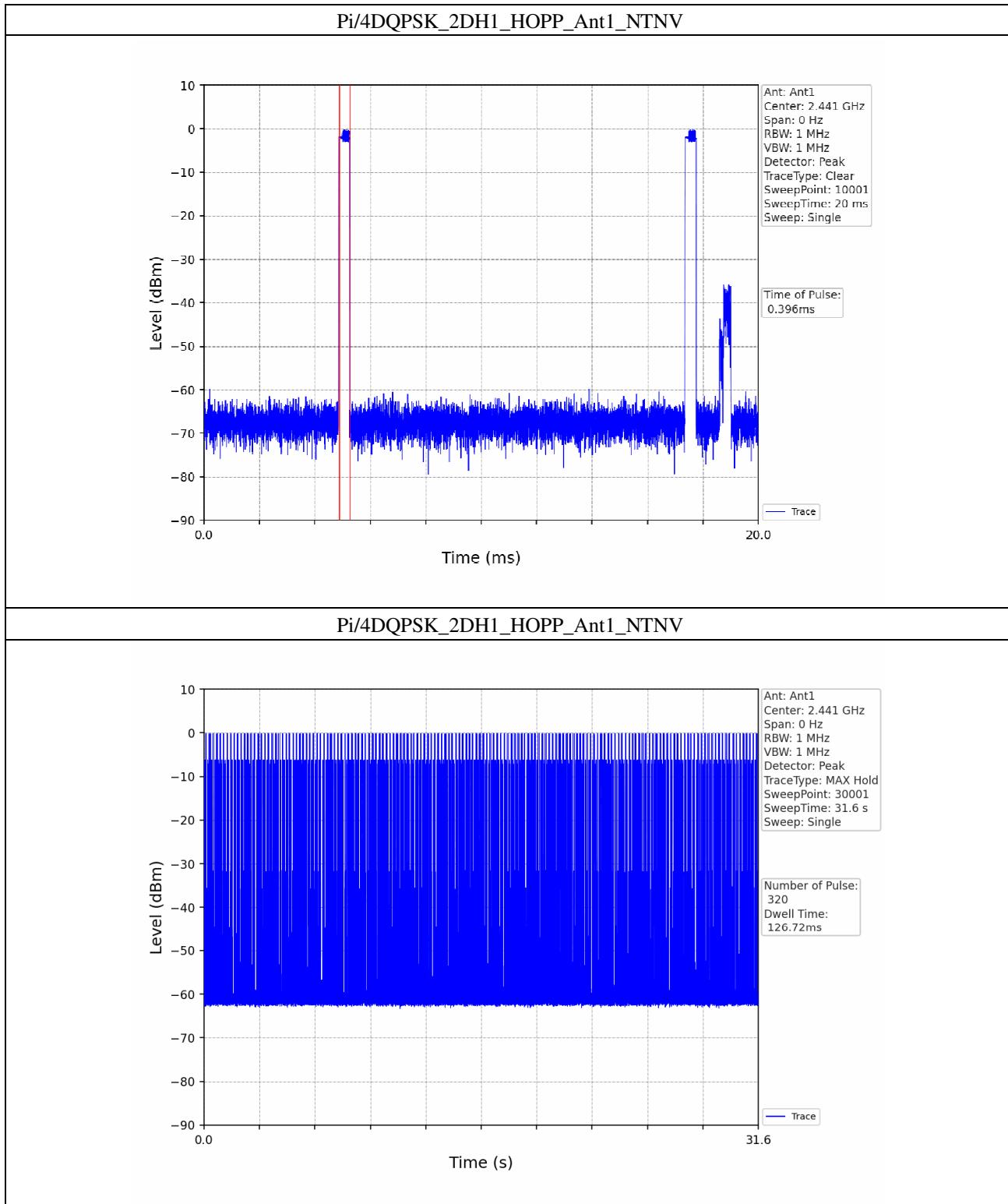
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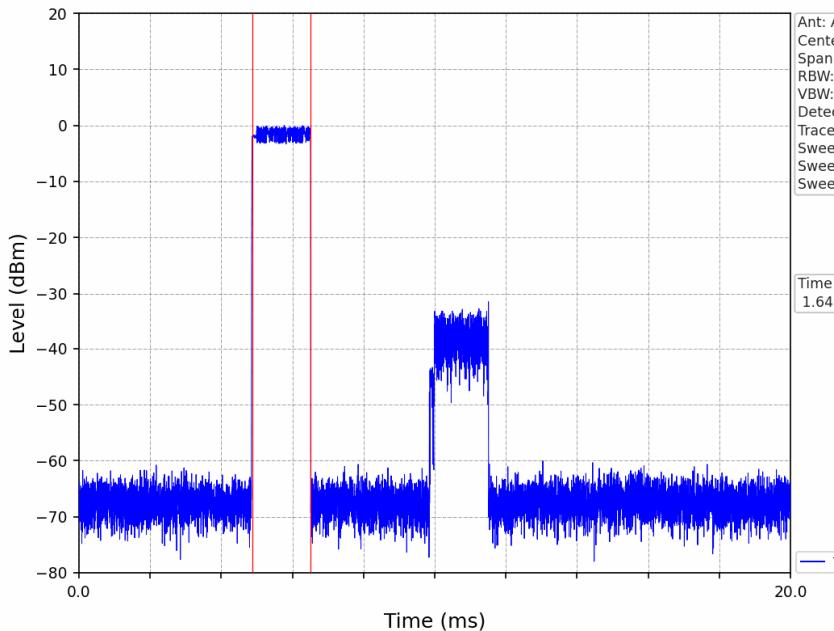
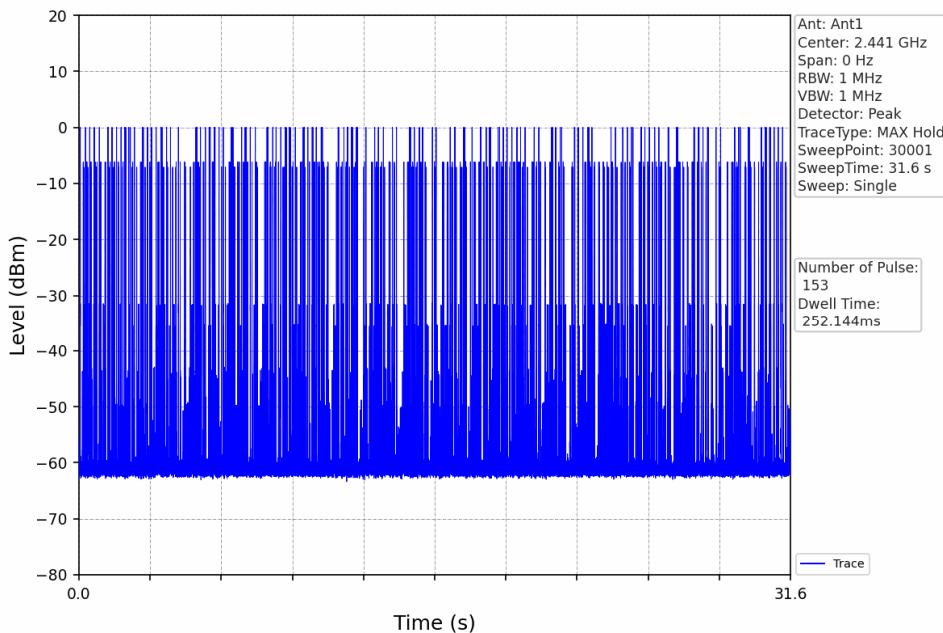


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**Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV****Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV**

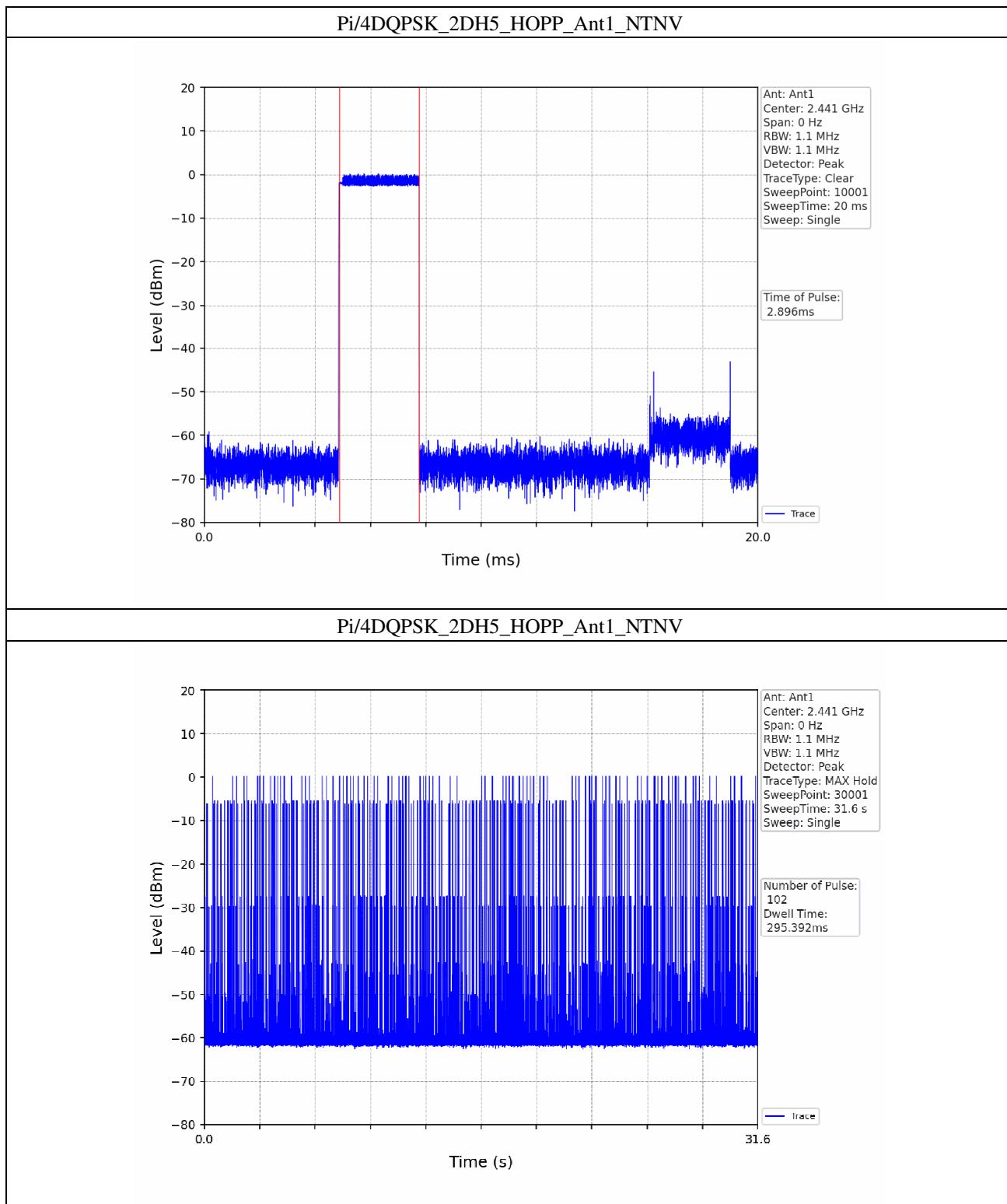
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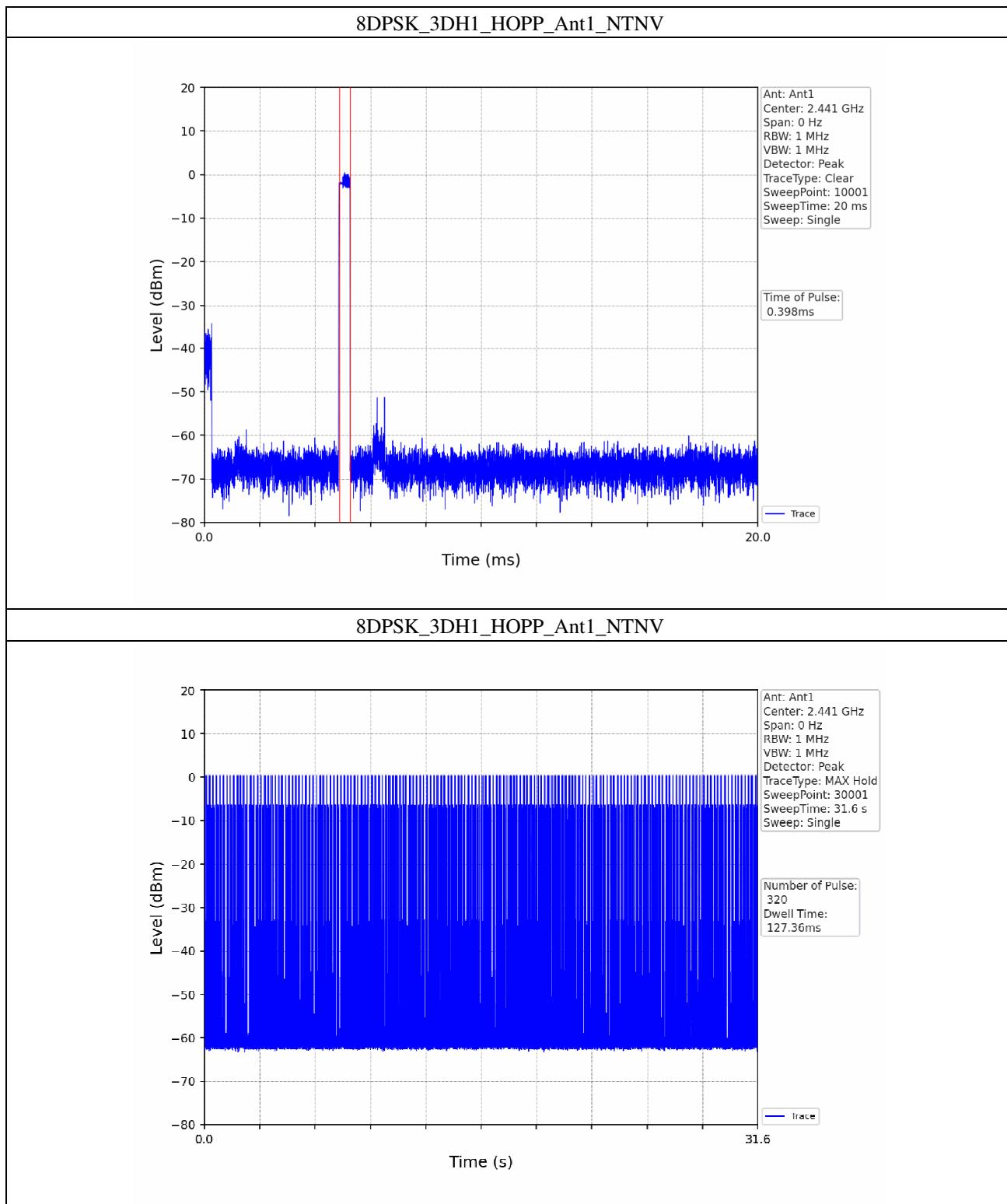
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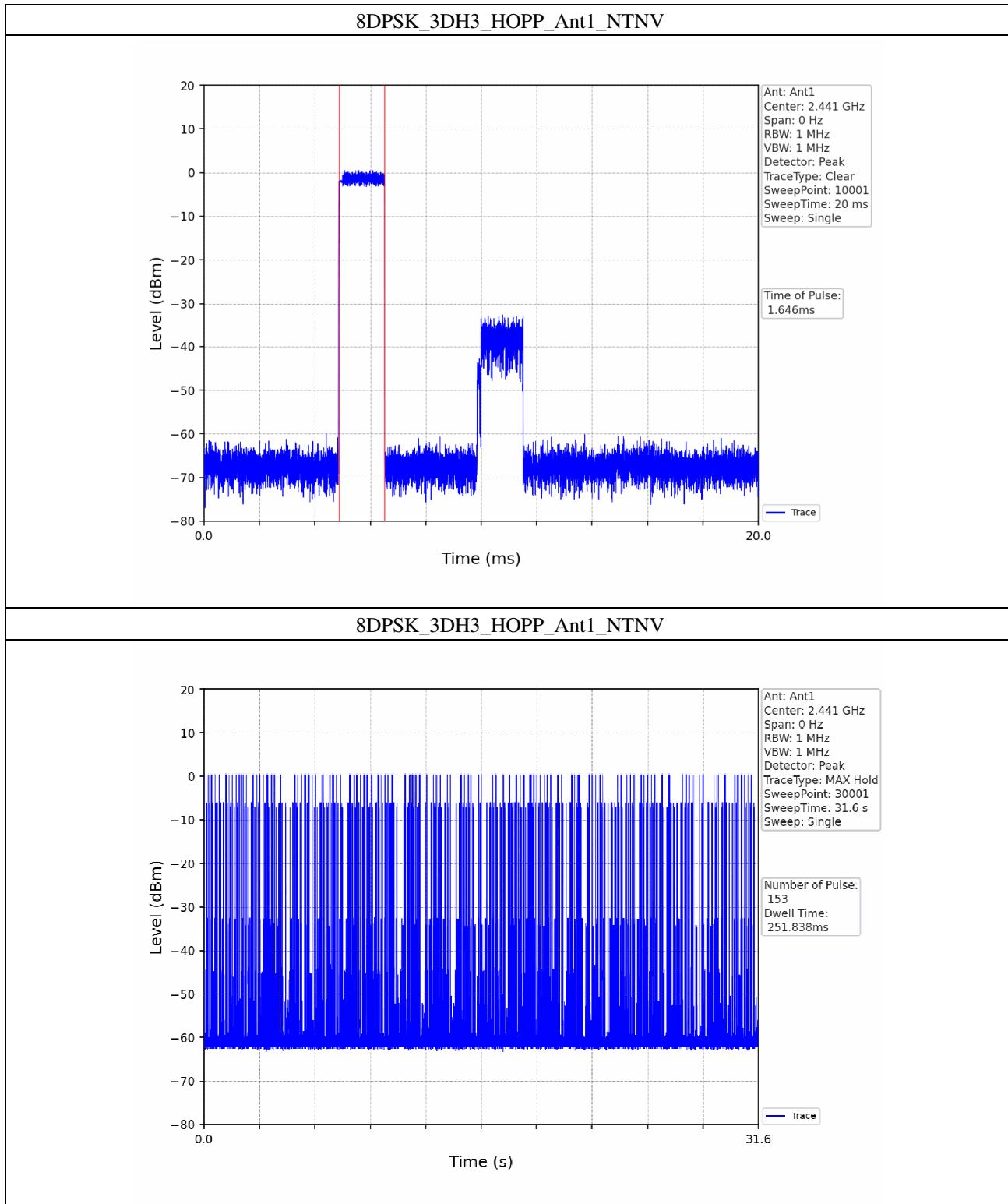


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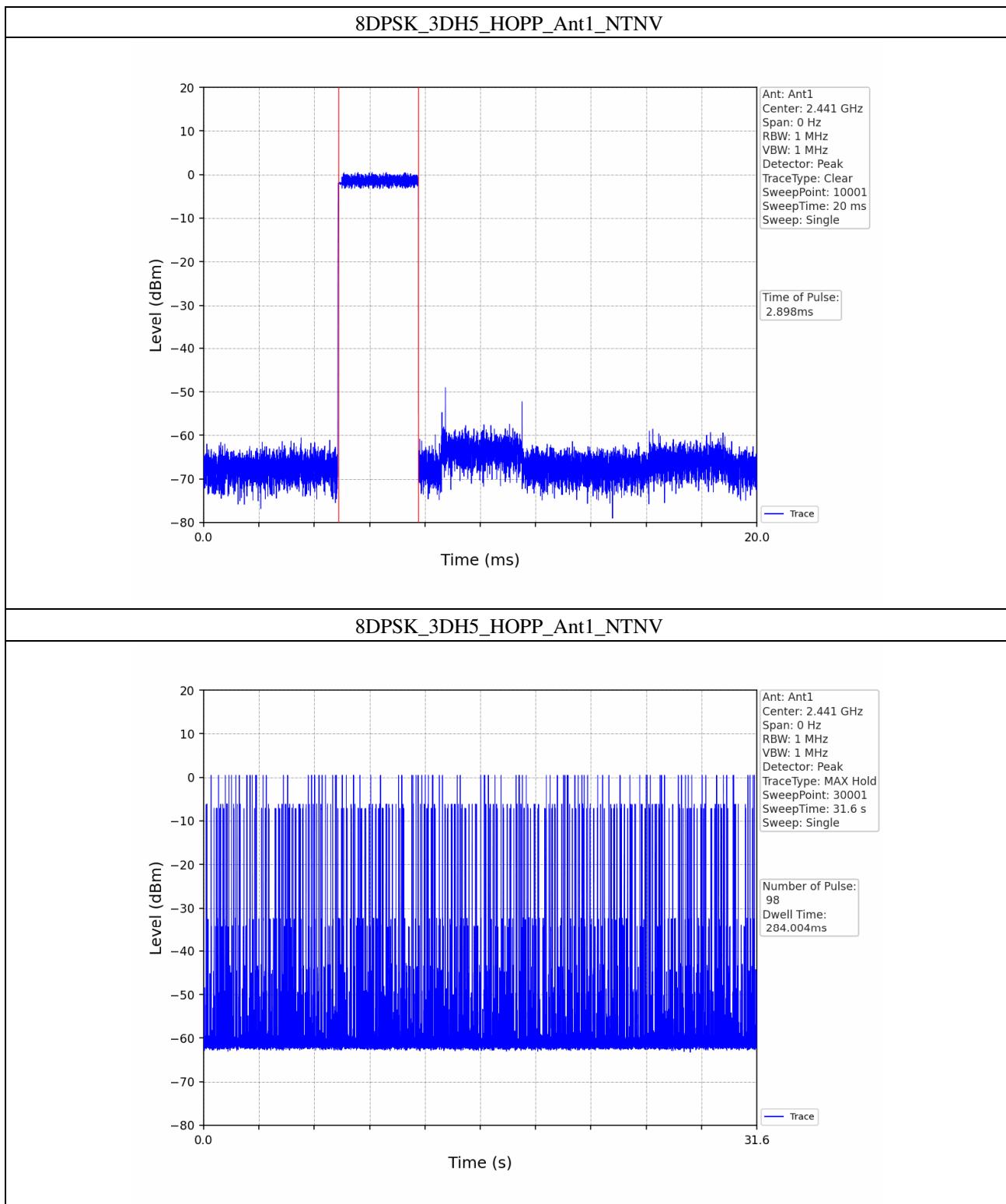
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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

#### 6.1.1 Test Result

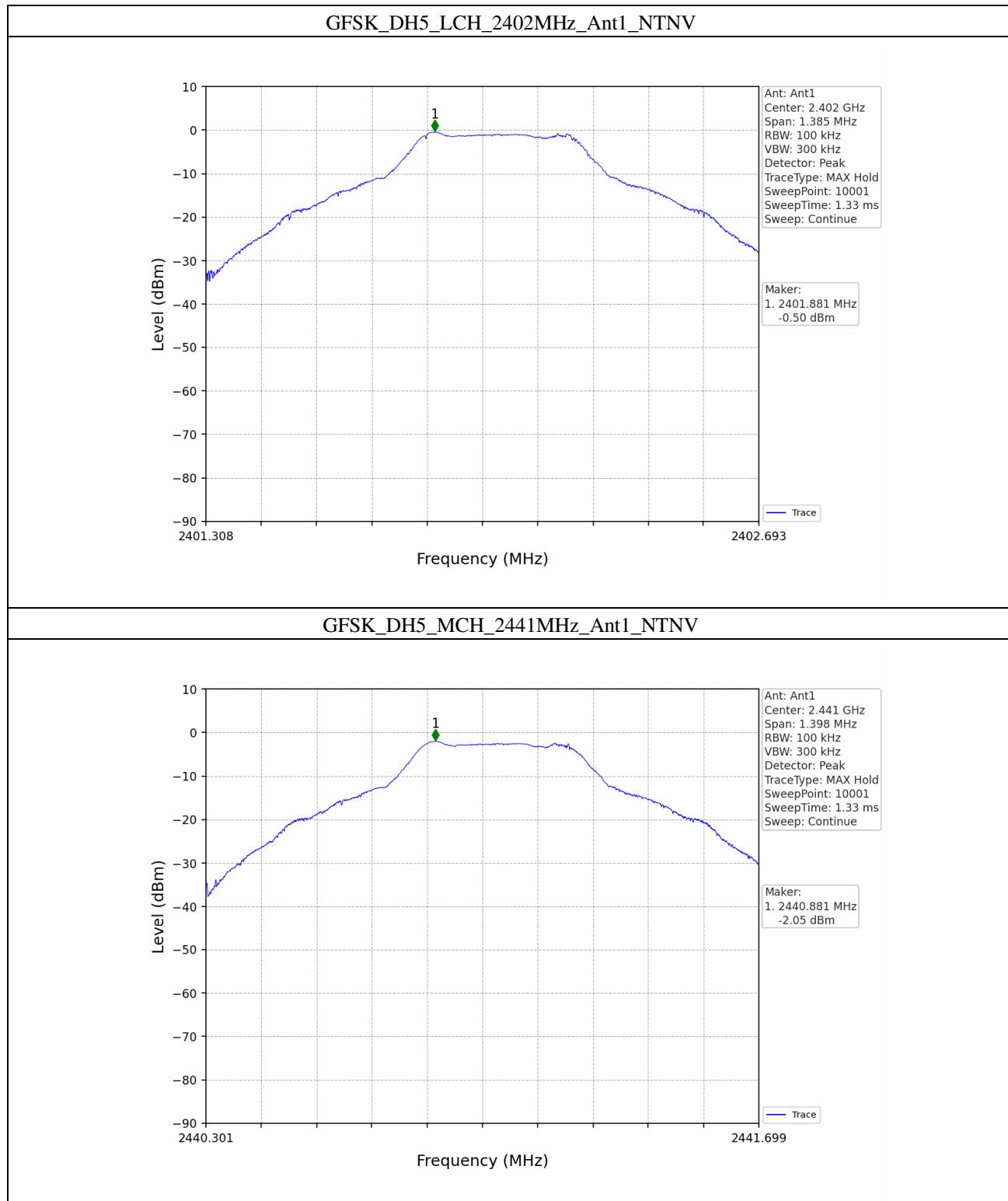
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.50
		2441	DH5	1	-2.05
		2480	DH5	1	-3.19
Pi/4DQPSK	SISO	2402	2DH5	1	-0.57
		2441	2DH5	1	-2.07
		2480	2DH5	1	-3.35
8DPSK	SISO	2402	3DH5	1	-0.41
		2441	3DH5	1	-1.89
		2480	3DH5	1	-3.18

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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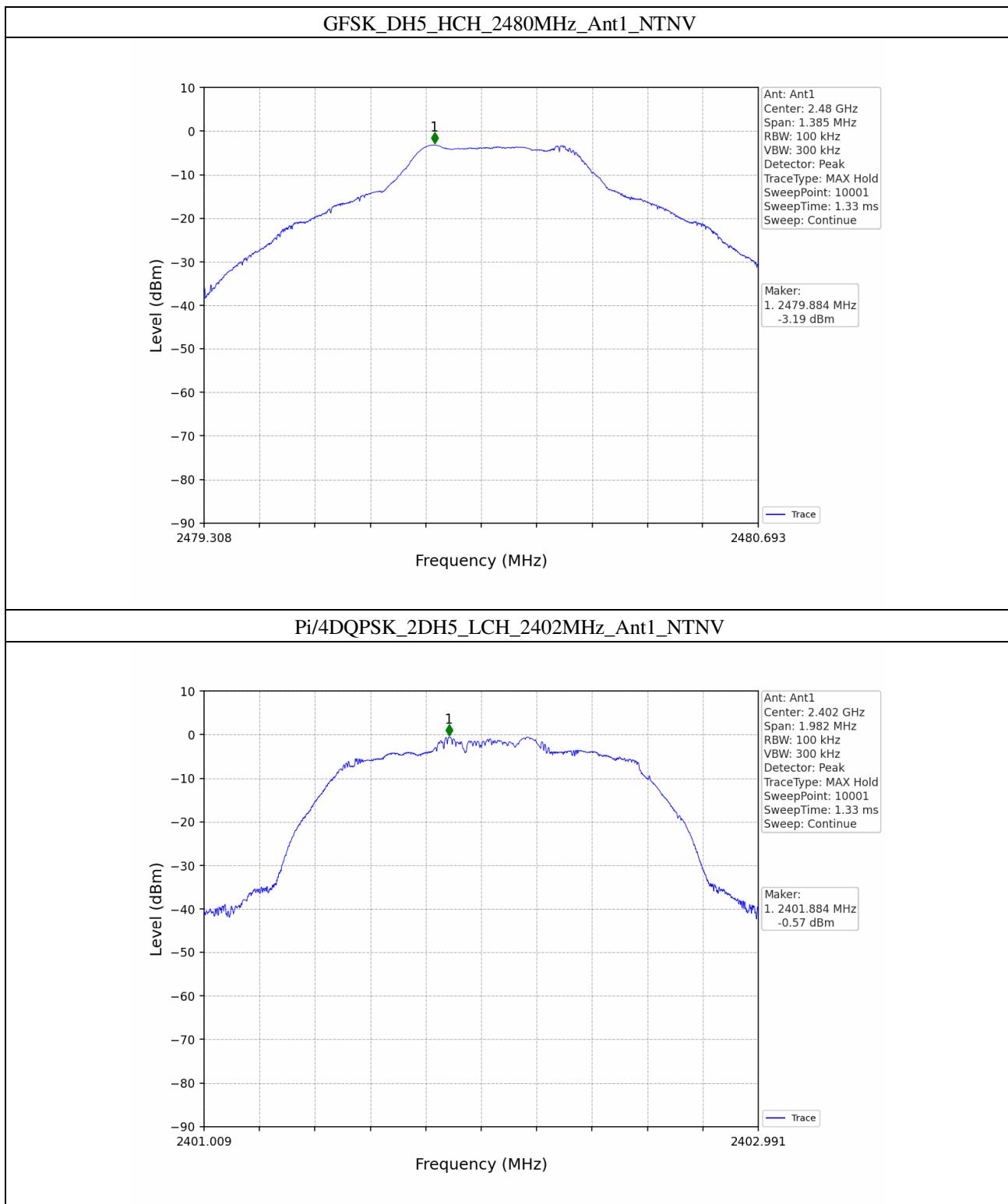
**6.1.2 Test Graph**

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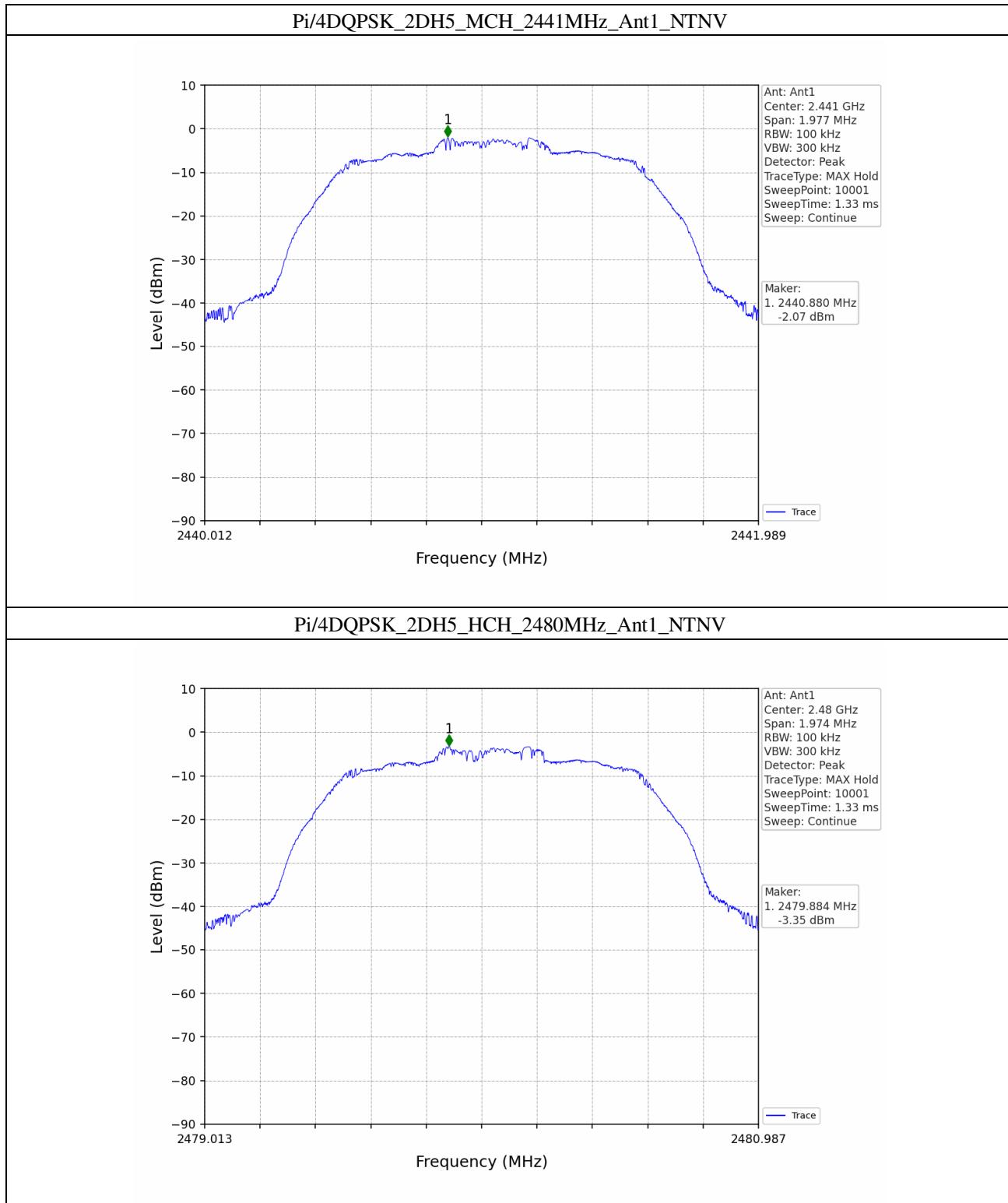


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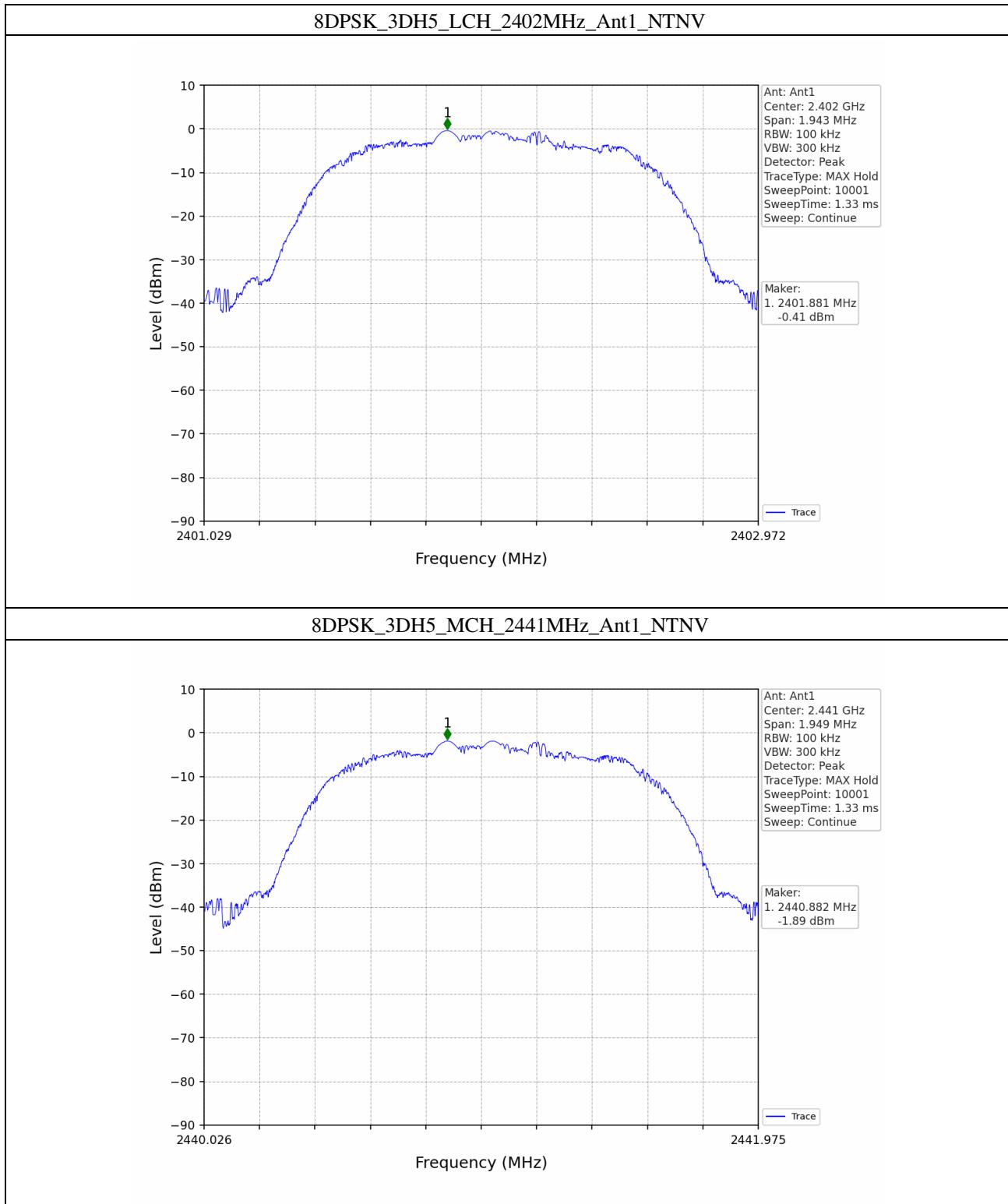
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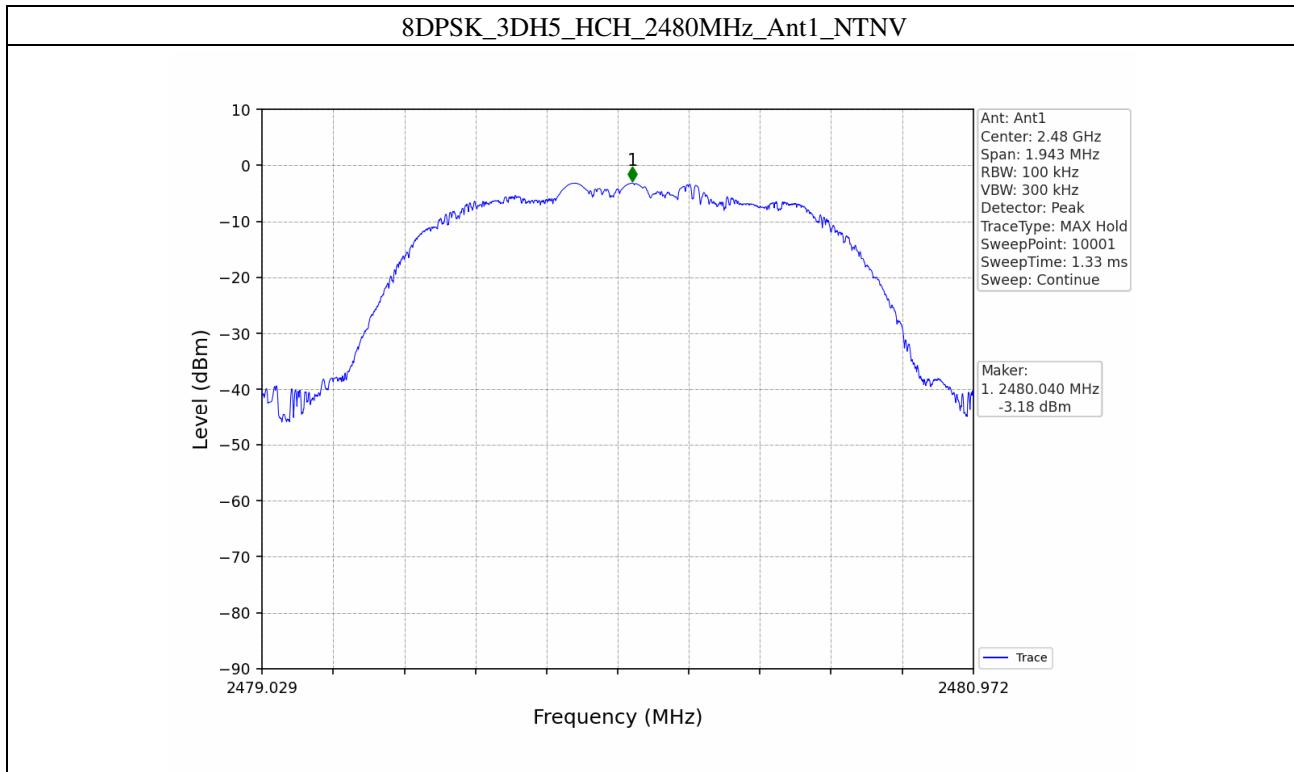


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**6.2 CSE****6.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.50	-20.50	Pass
		2441	DH5	1	-0.50	-20.50	Pass
		2480	DH5	1	-0.50	-20.50	Pass
		HOPP	DH5	1	-0.50	-20.50	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.57	-20.57	Pass
		2441	2DH5	1	-0.57	-20.57	Pass
		2480	2DH5	1	-0.57	-20.57	Pass
		HOPP	2DH5	1	-0.57	-20.57	Pass
8DPSK	SISO	2402	3DH5	1	-0.41	-20.41	Pass
		2441	3DH5	1	-0.41	-20.41	Pass
		2480	3DH5	1	-0.41	-20.41	Pass
		HOPP	3DH5	1	-0.41	-20.41	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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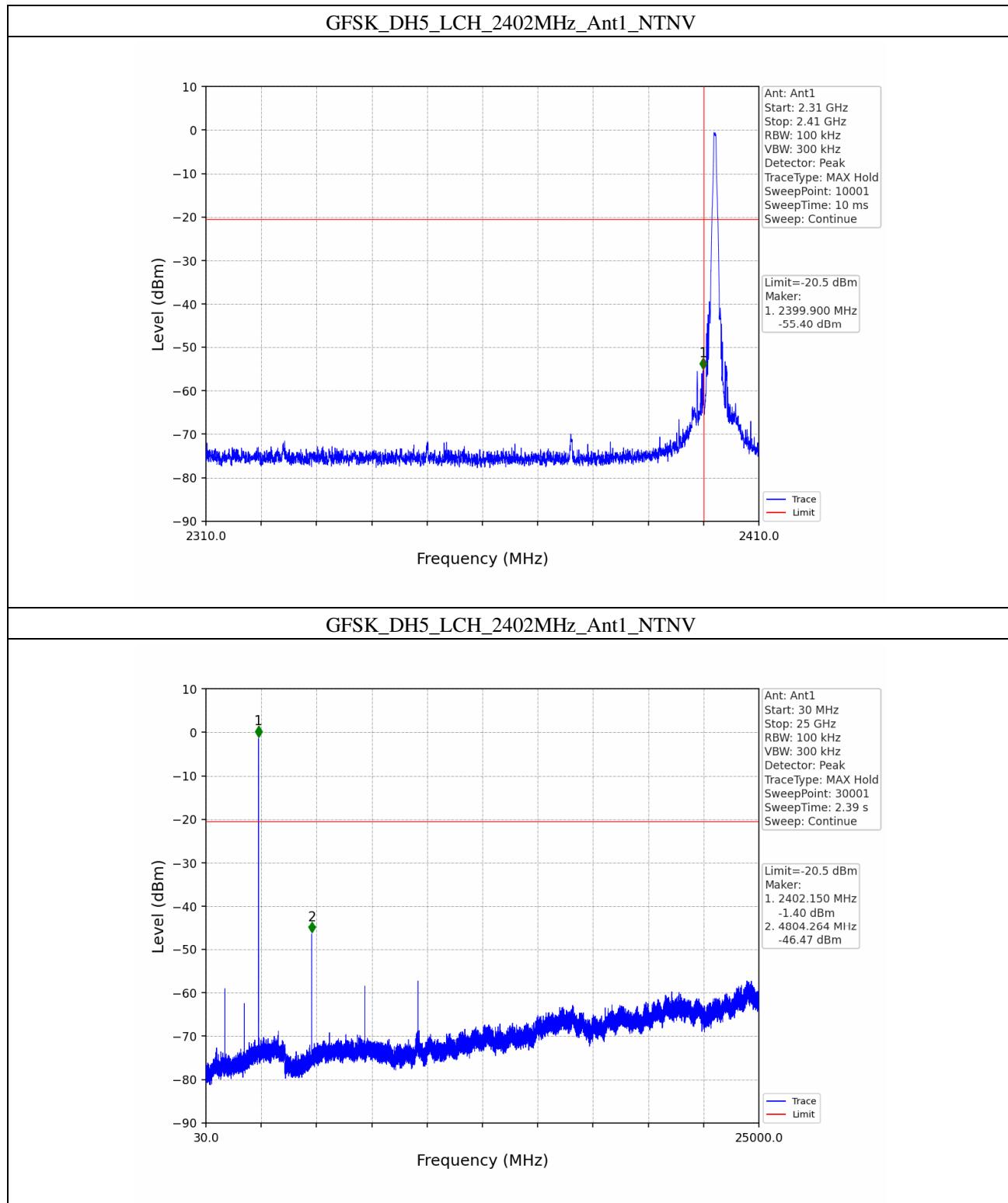
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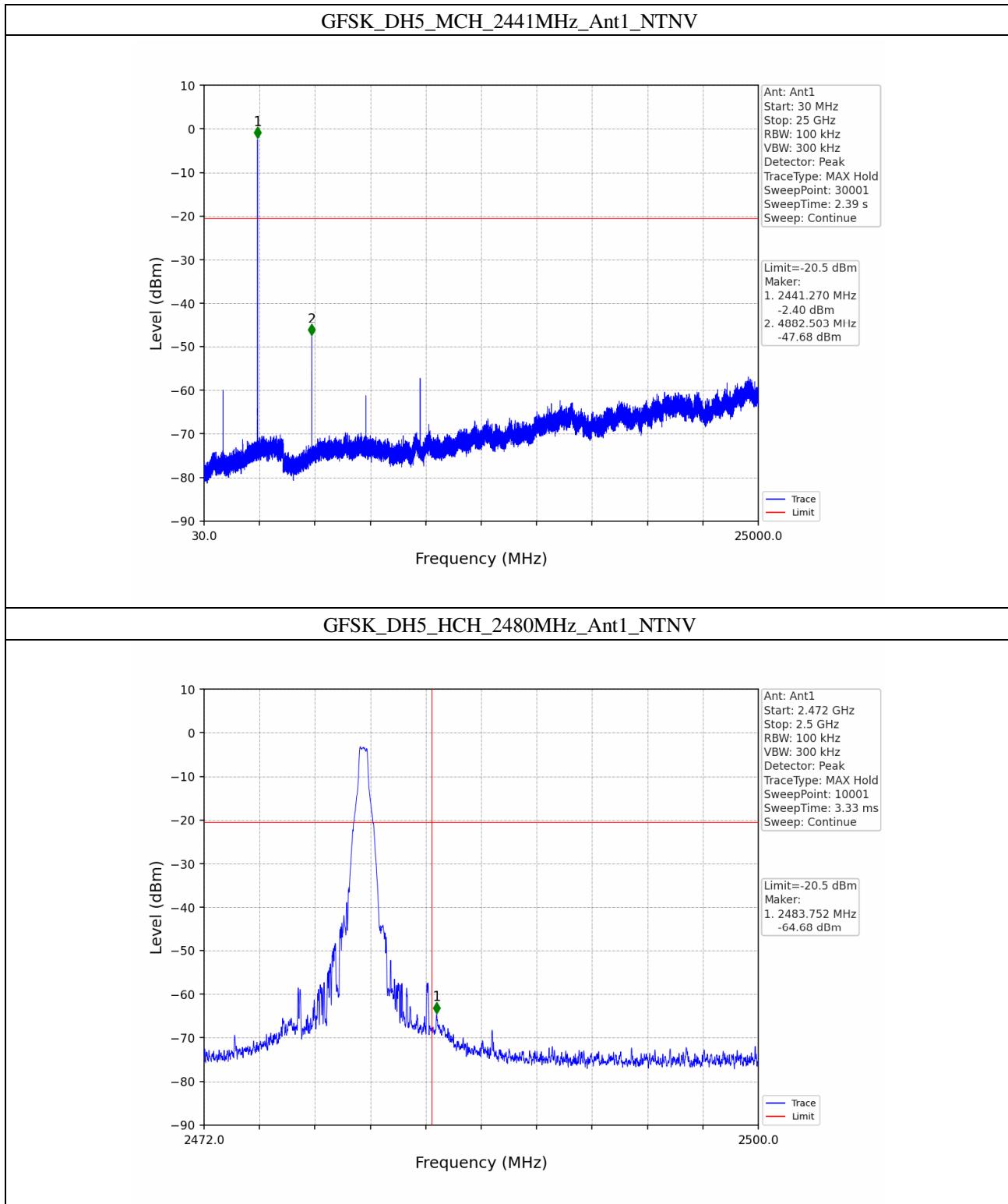


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### 6.2.2 Test Graph



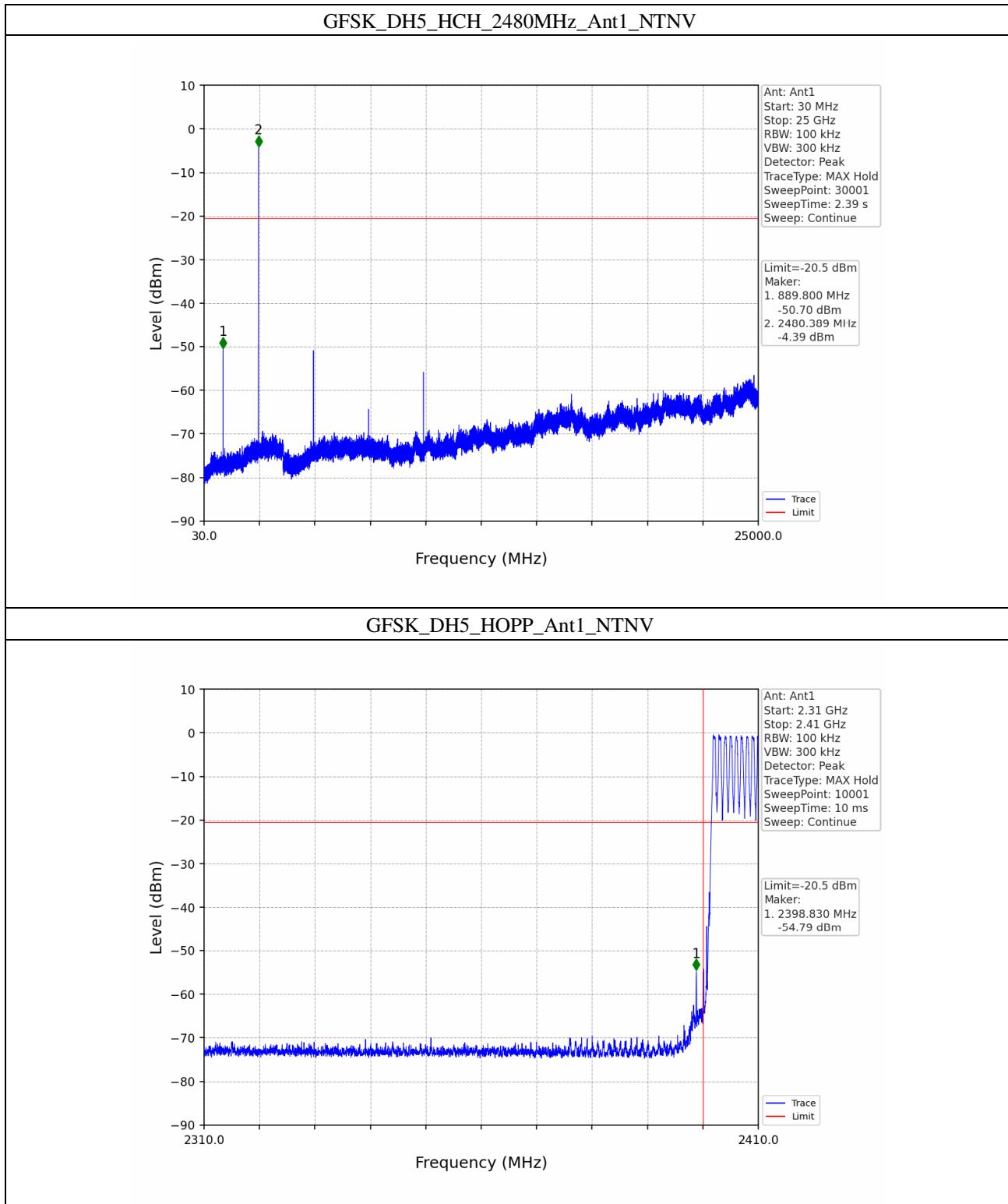


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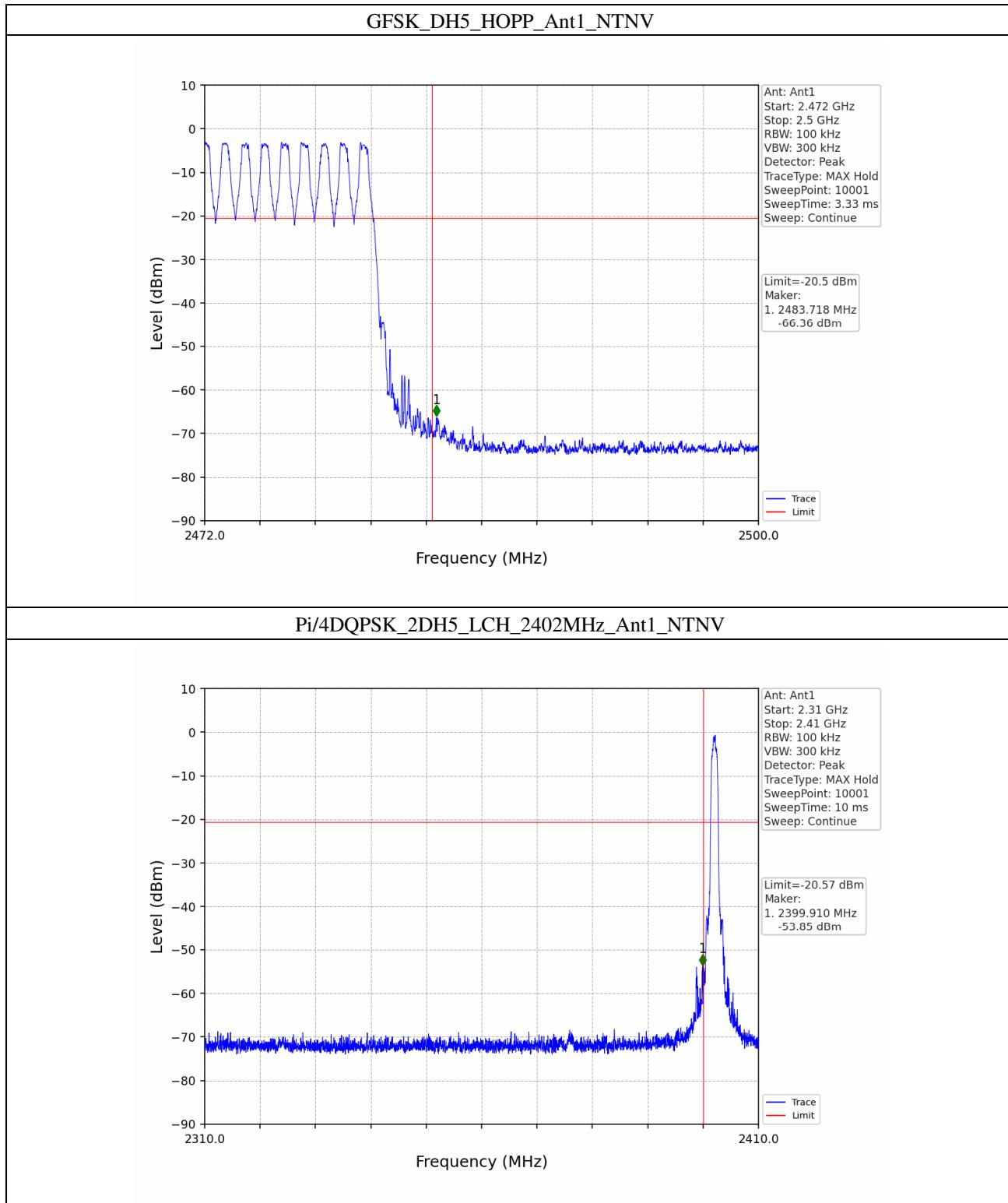


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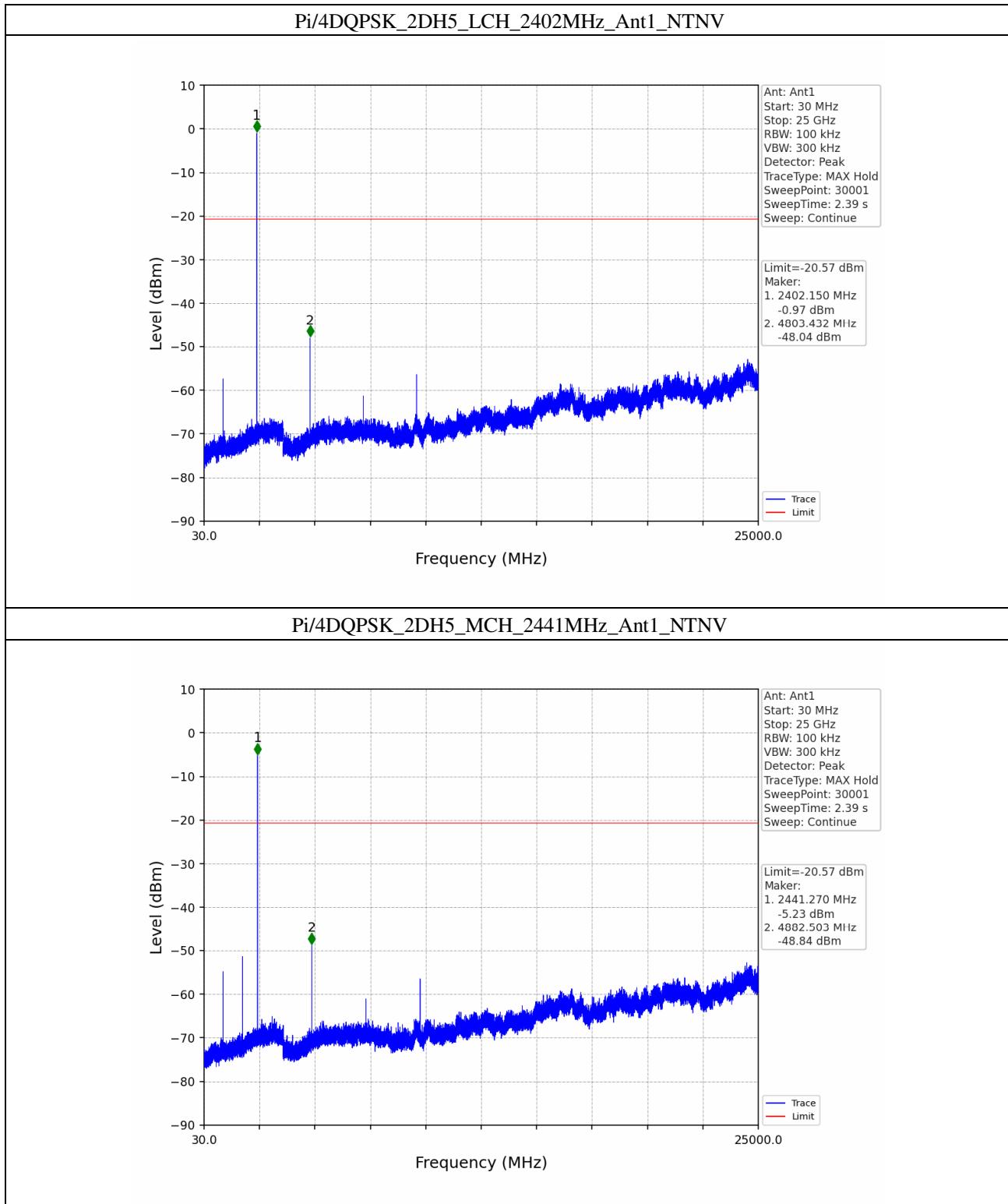
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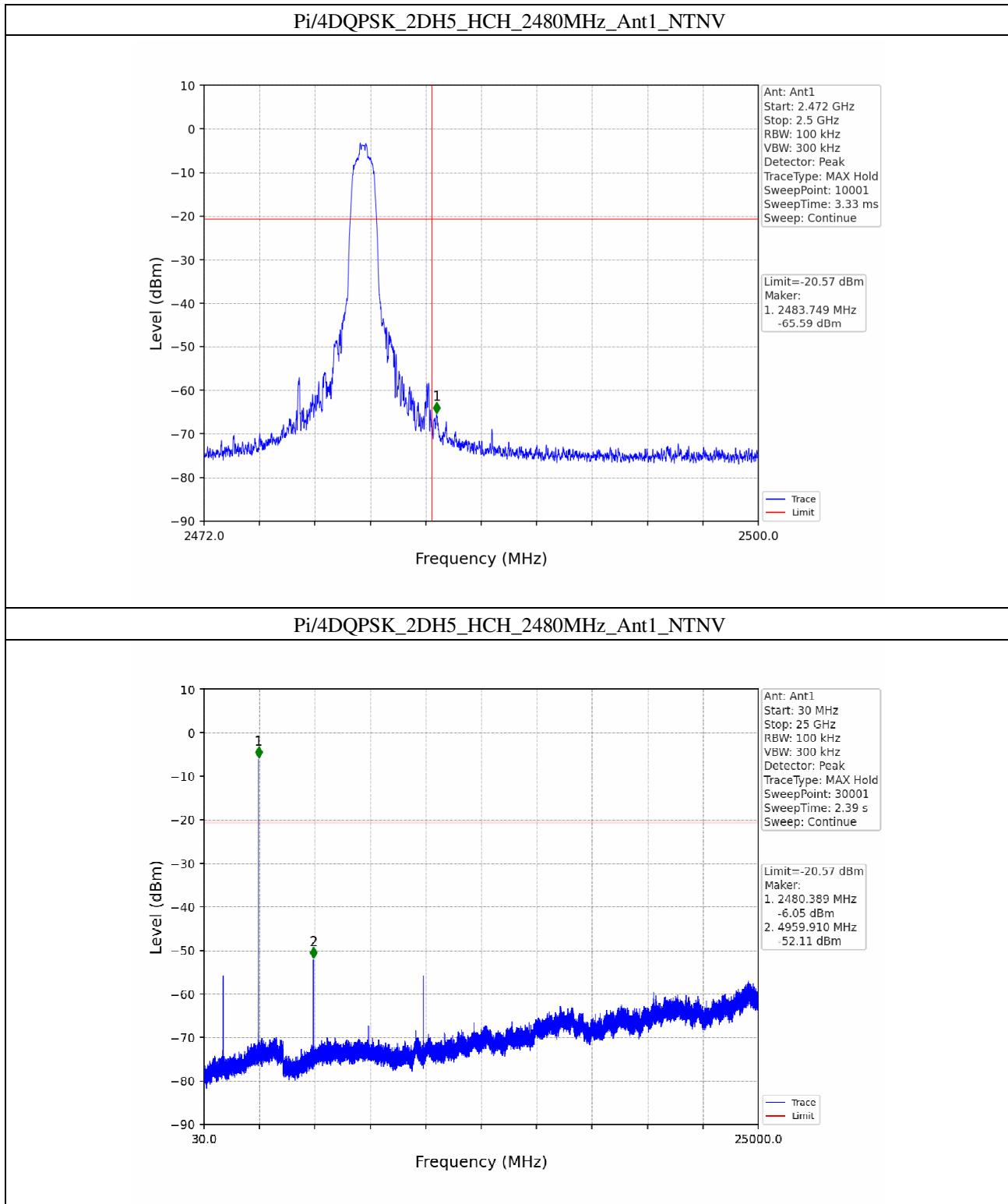


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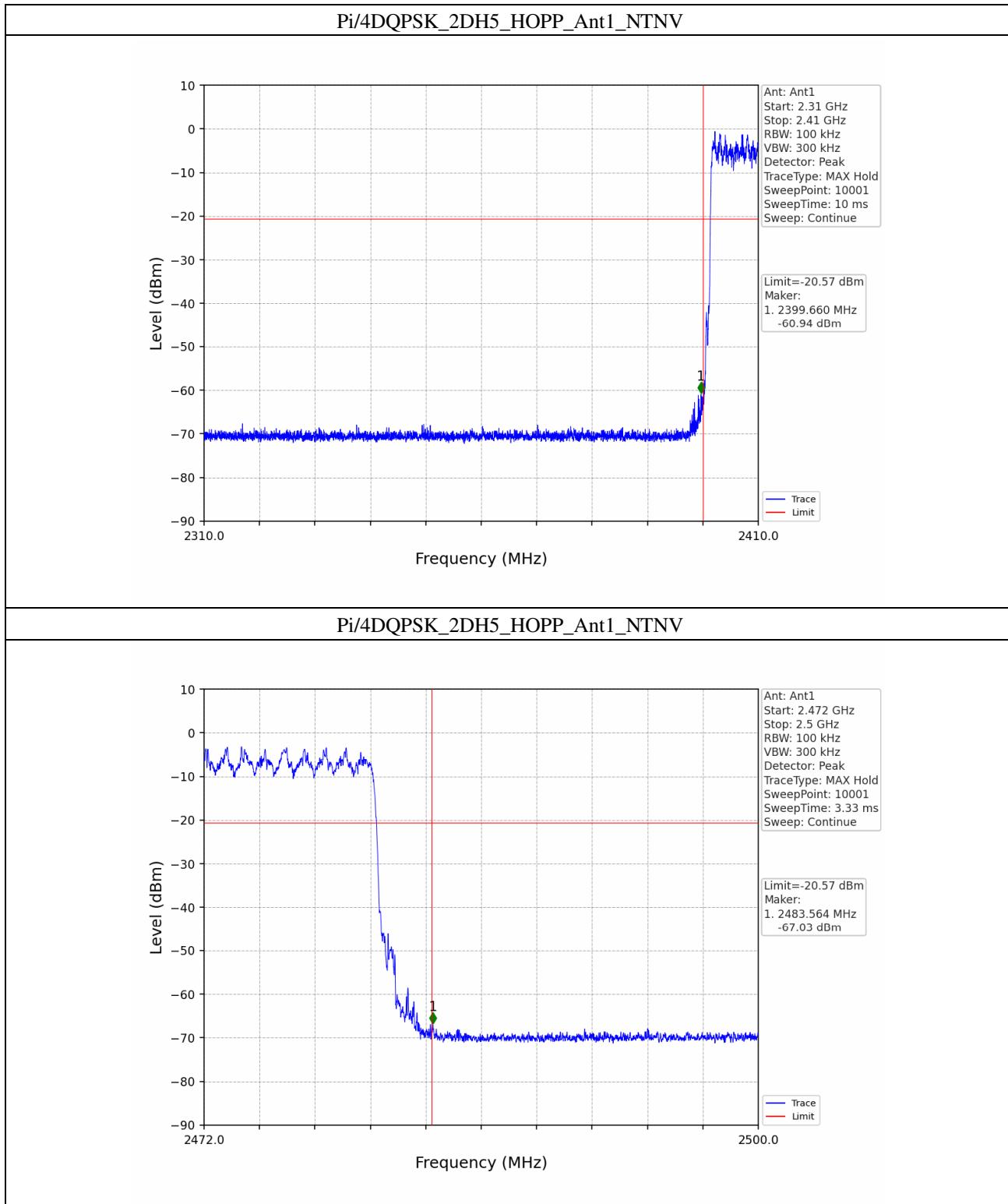


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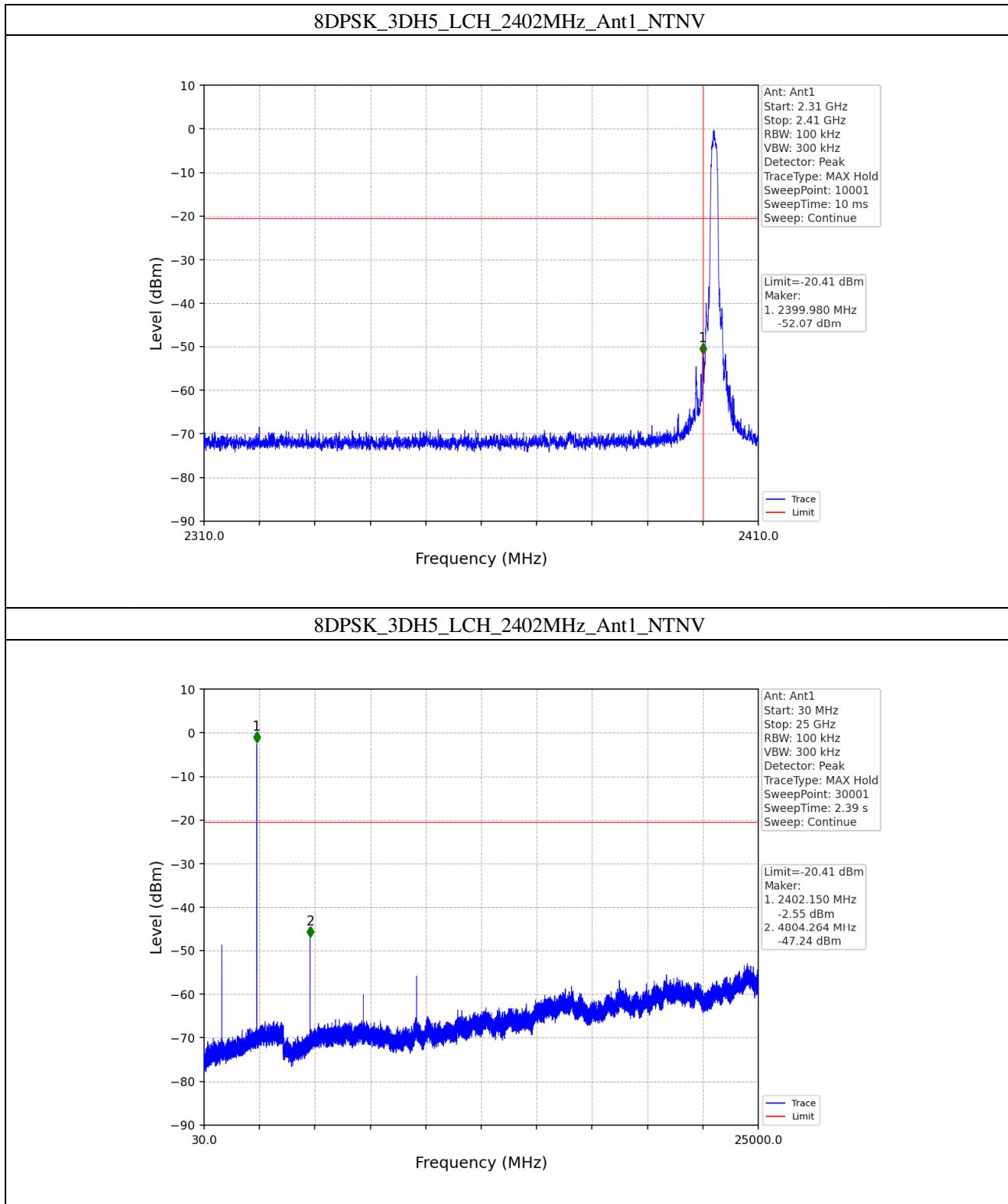


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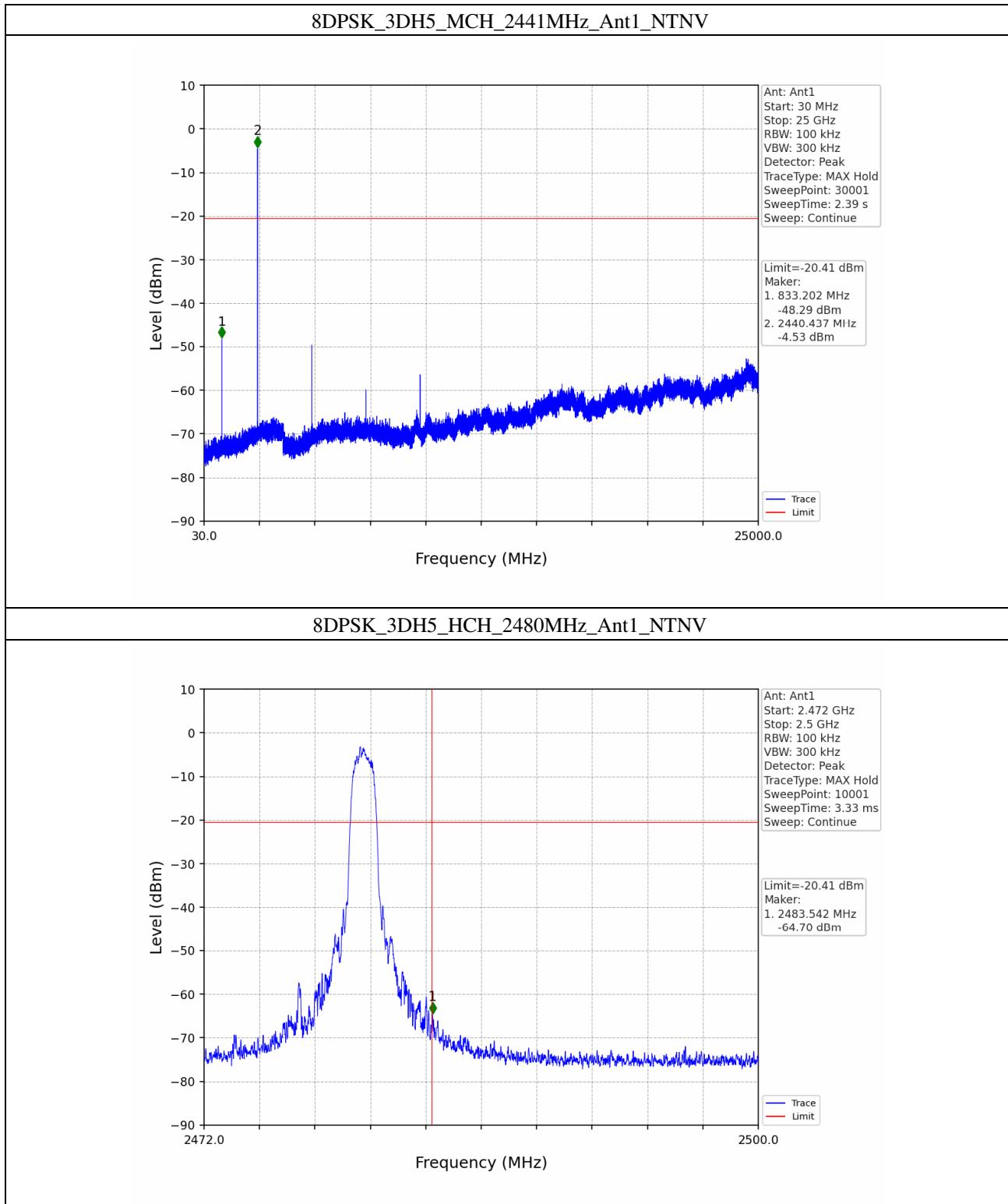


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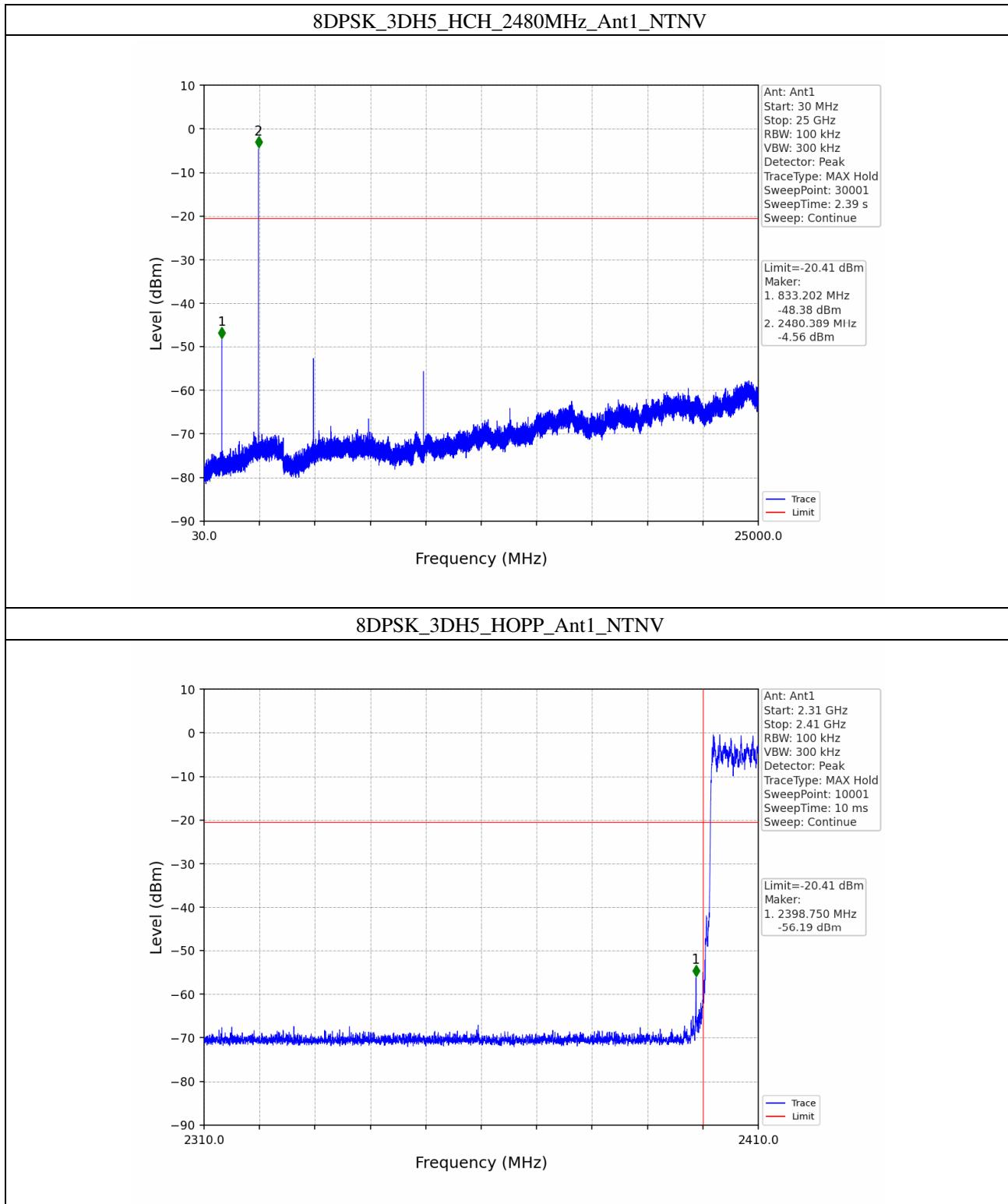


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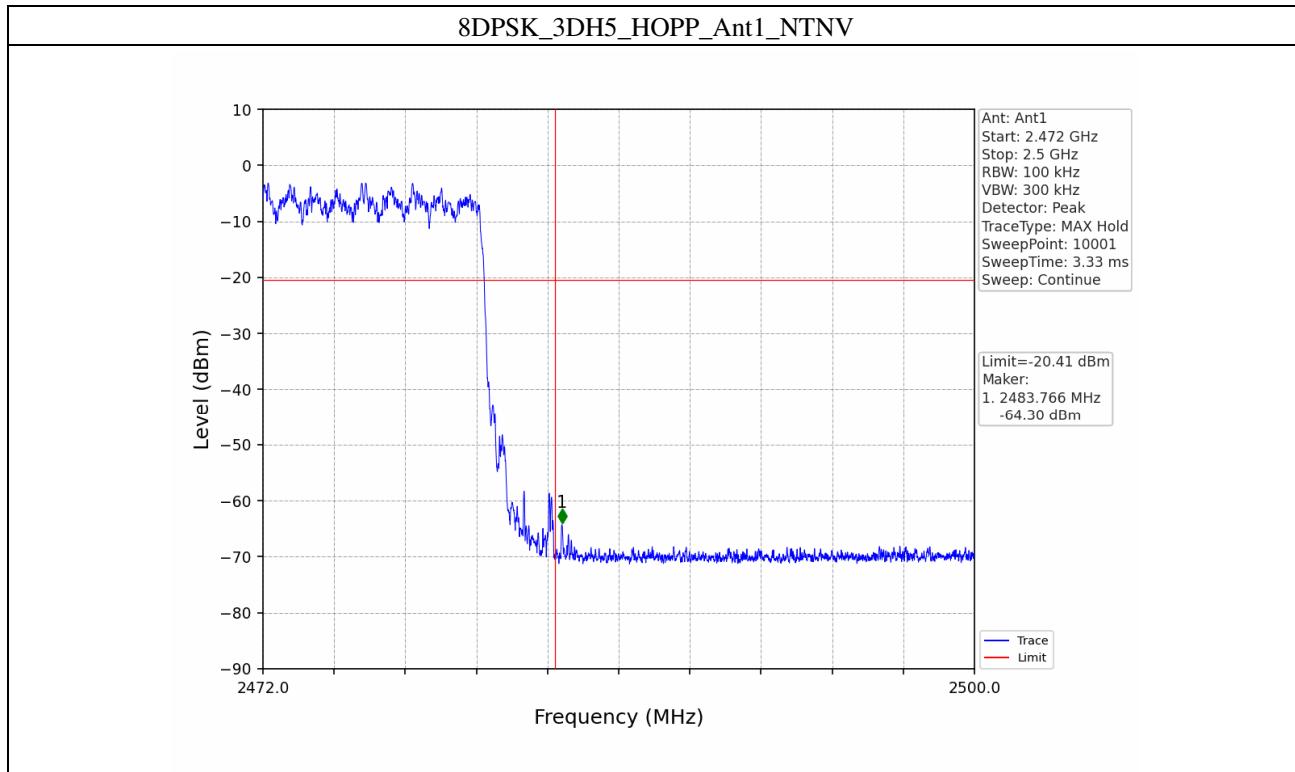


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