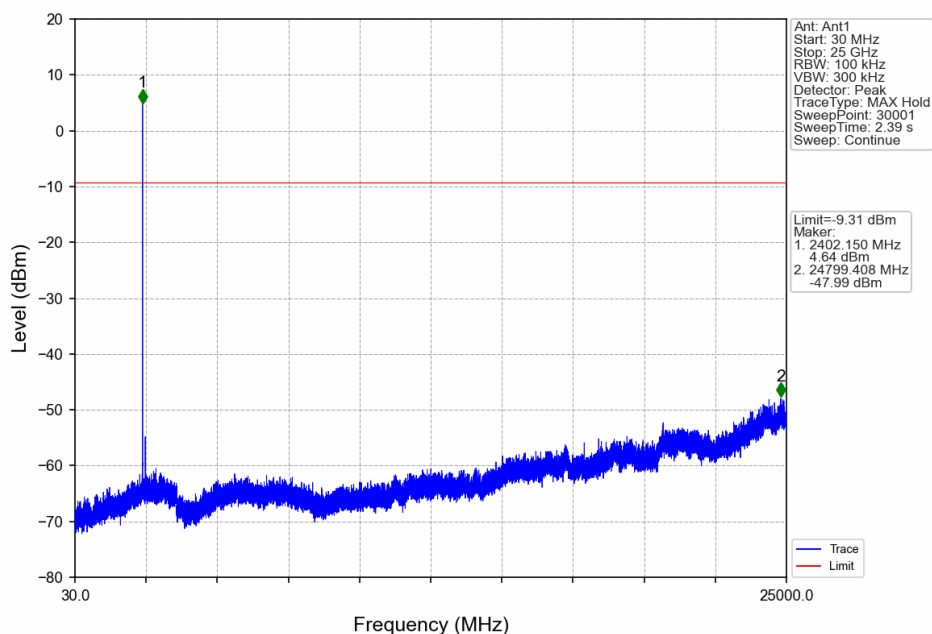
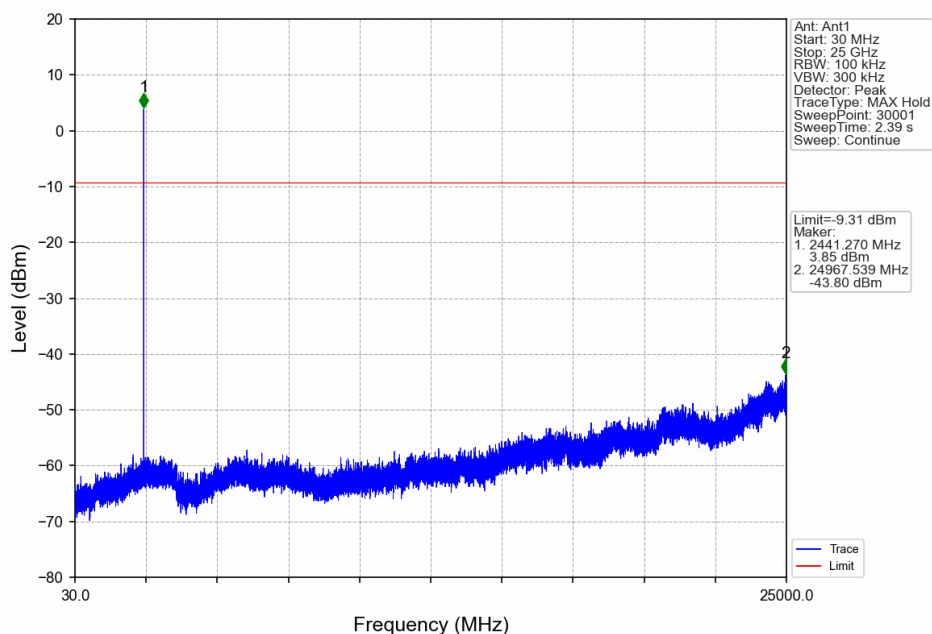


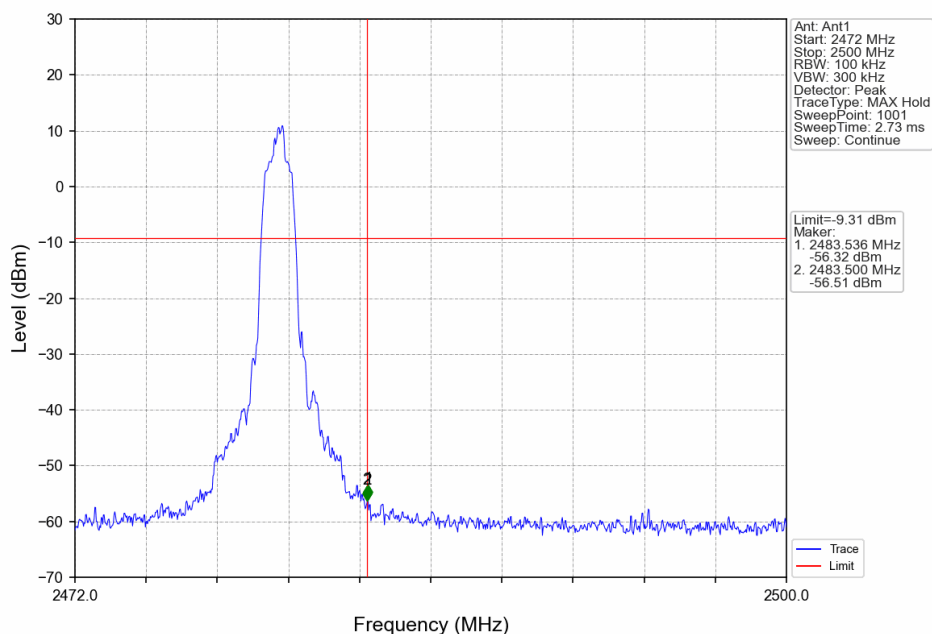
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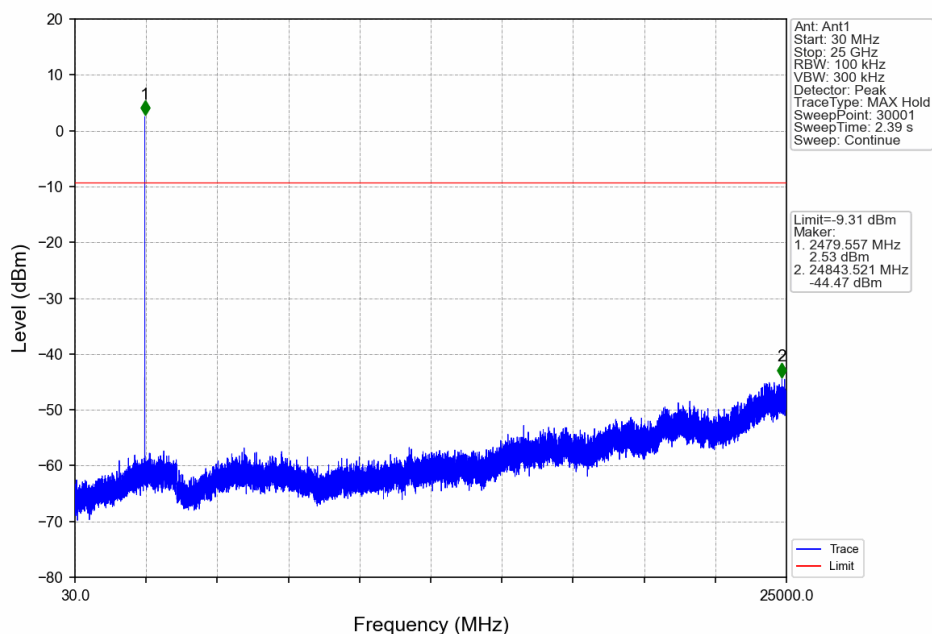
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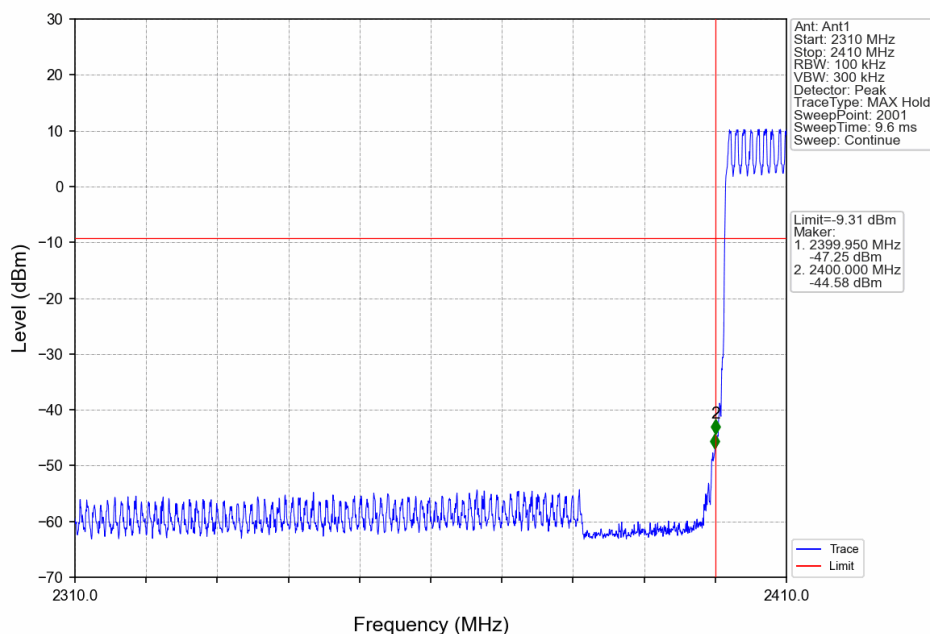
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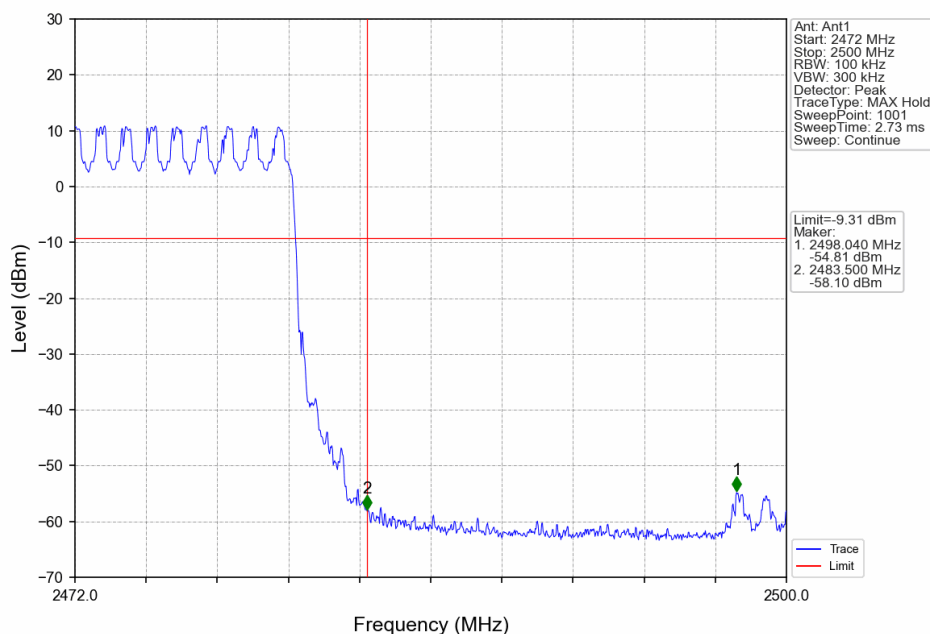
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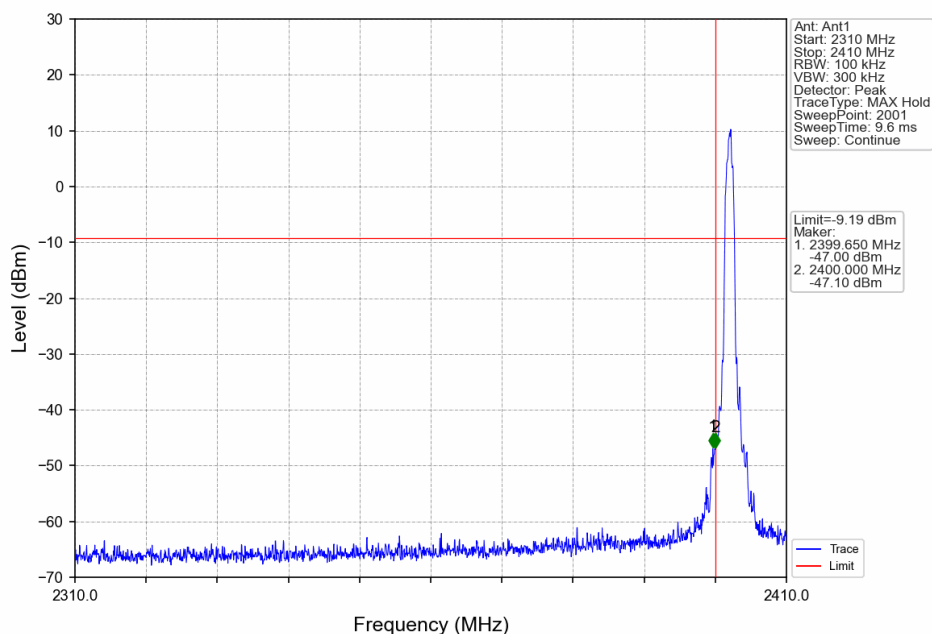
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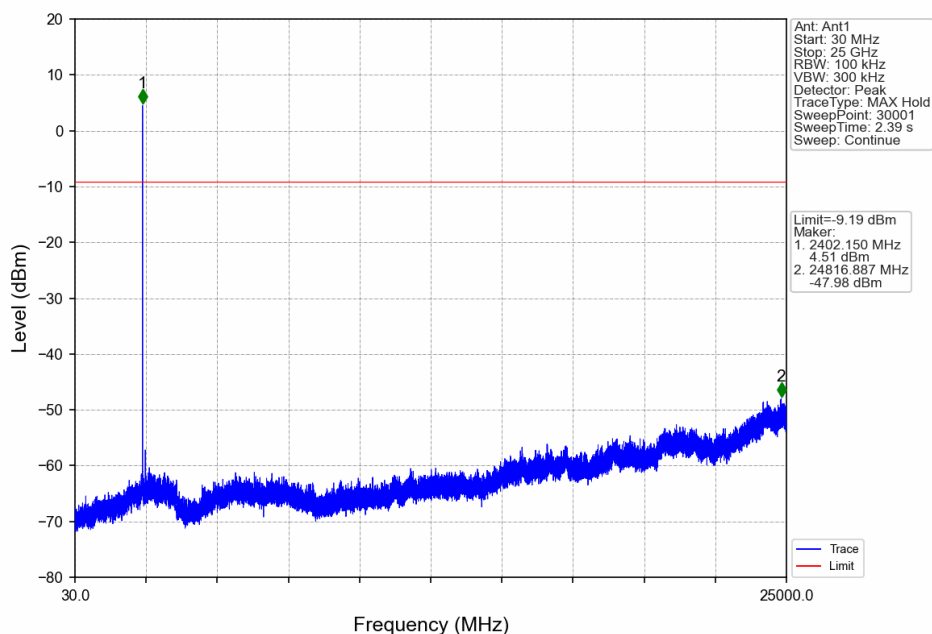
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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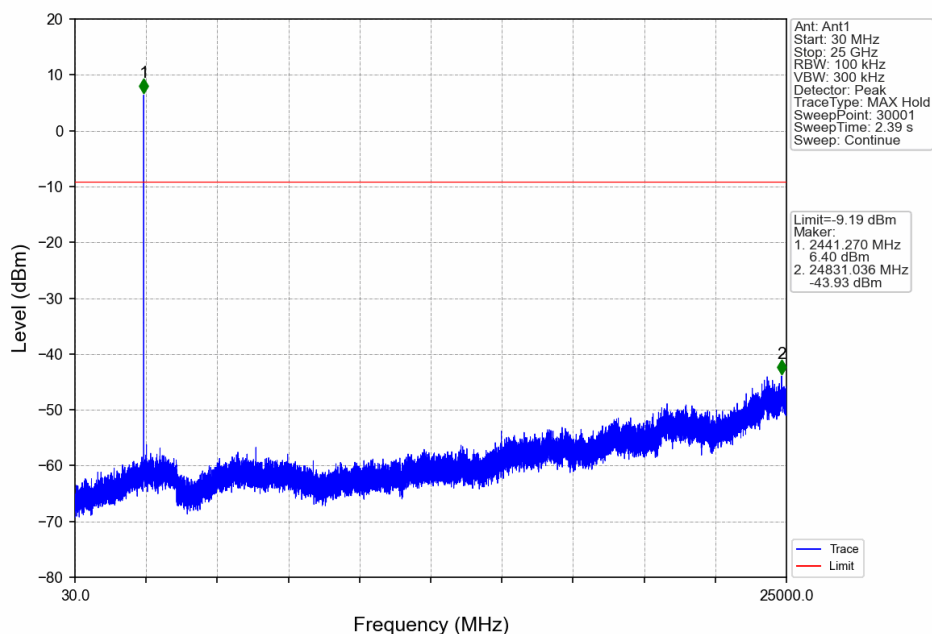
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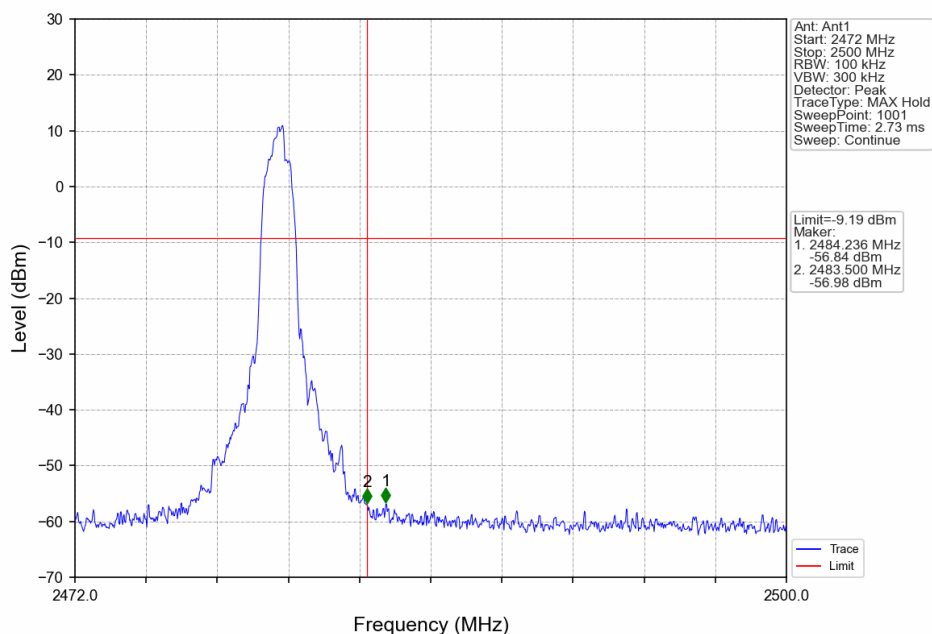
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### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



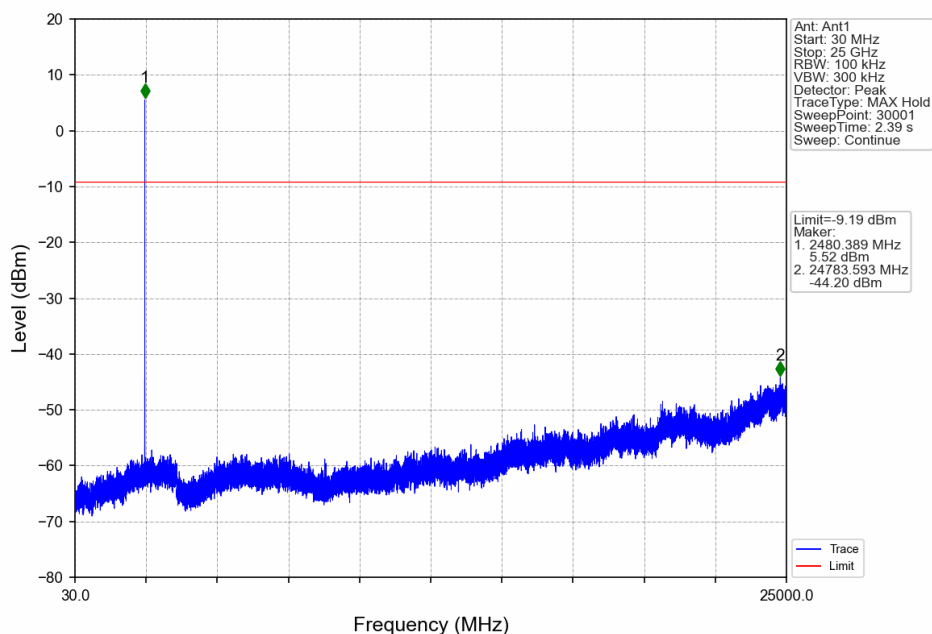
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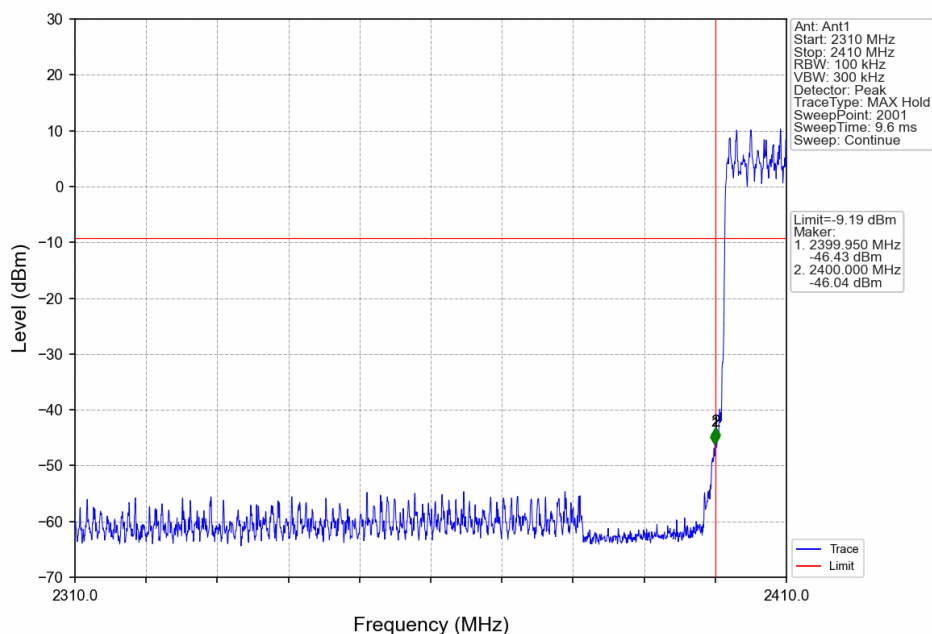
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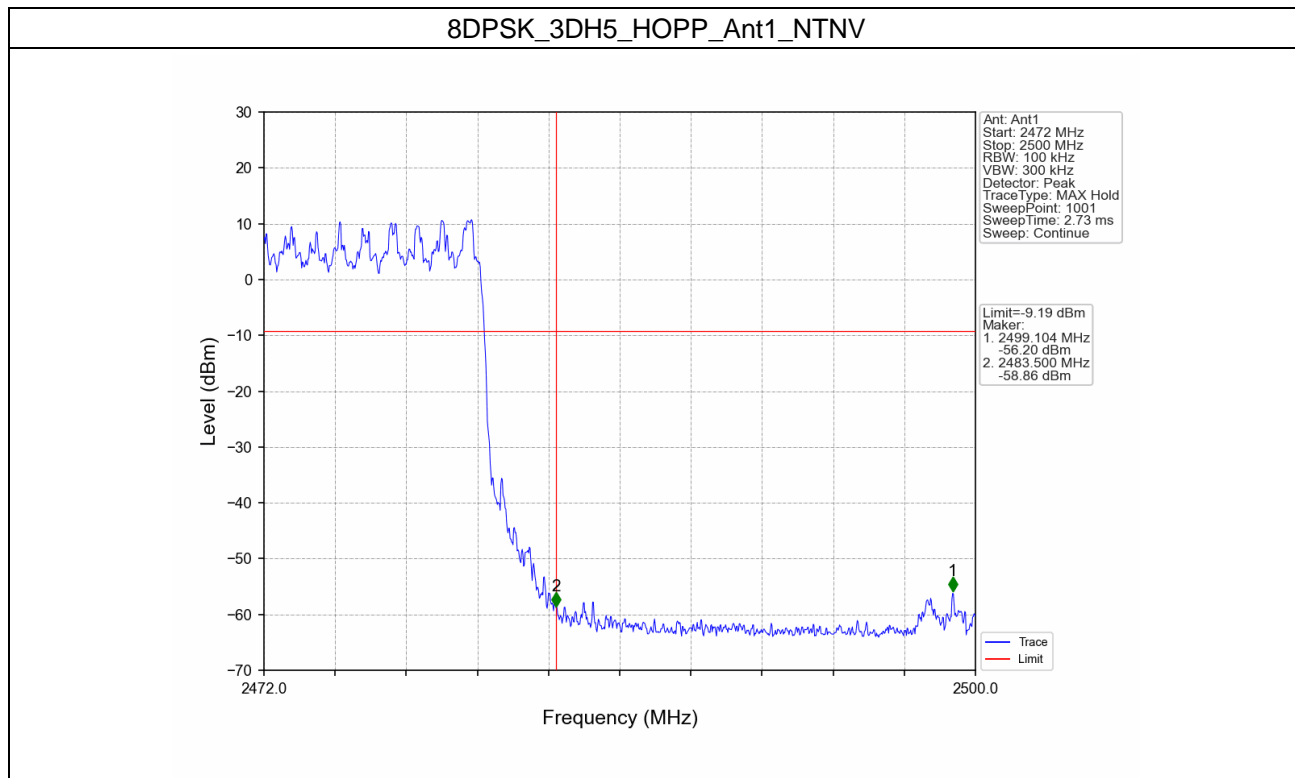
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400141402

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For left earbuds:

### 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 (%)
GFSK	SISO	2402	DH5	2.889	4.999	57.79	2.38	0.05
		2441	DH5	2.891	5.001	57.81	2.38	0.06
		2480	DH5	2.889	4.999	57.79	2.38	0.02
Pi/4DQPSK	SISO	2402	2DH5	2.896	5.000	57.92	2.37	0.02
		2441	2DH5	2.897	5.001	57.93	2.37	0.04
		2480	2DH5	2.898	5.002	57.94	2.37	0.06
8DPSK	SISO	2402	3DH5	2.896	4.997	57.95	2.37	0.03
		2441	3DH5	2.896	5.000	57.92	2.37	0.05
		2480	3DH5	2.896	4.997	57.95	2.37	0.05



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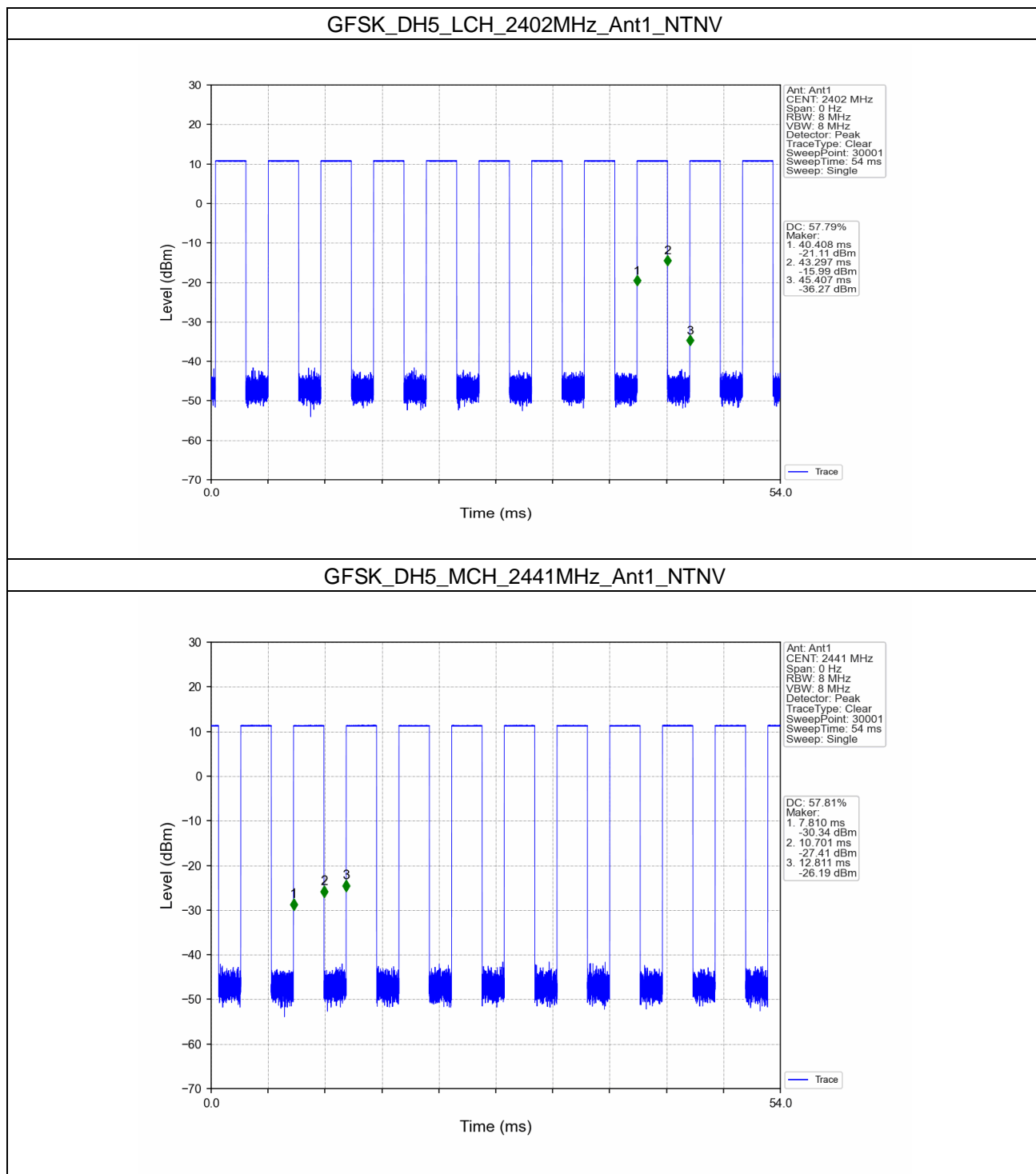
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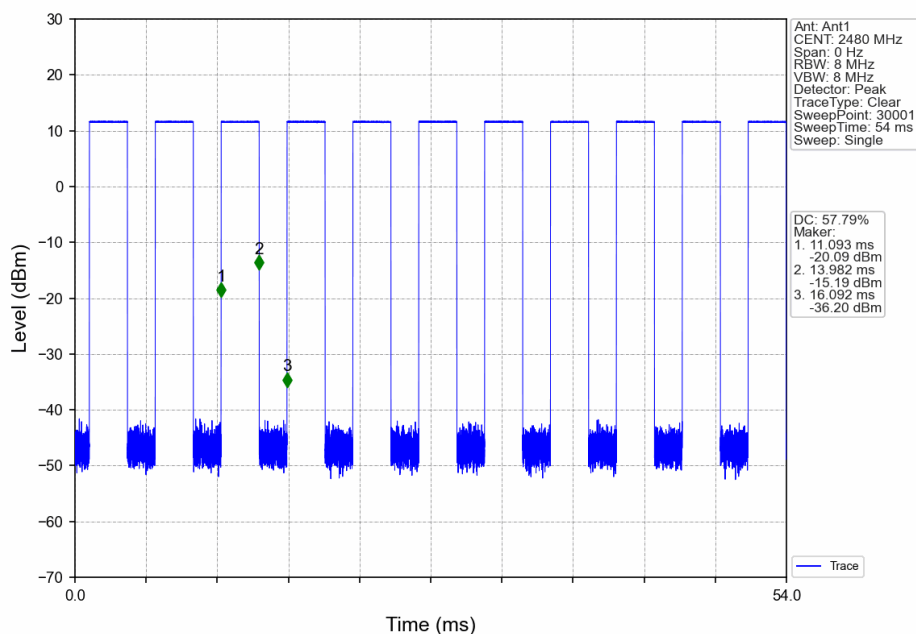
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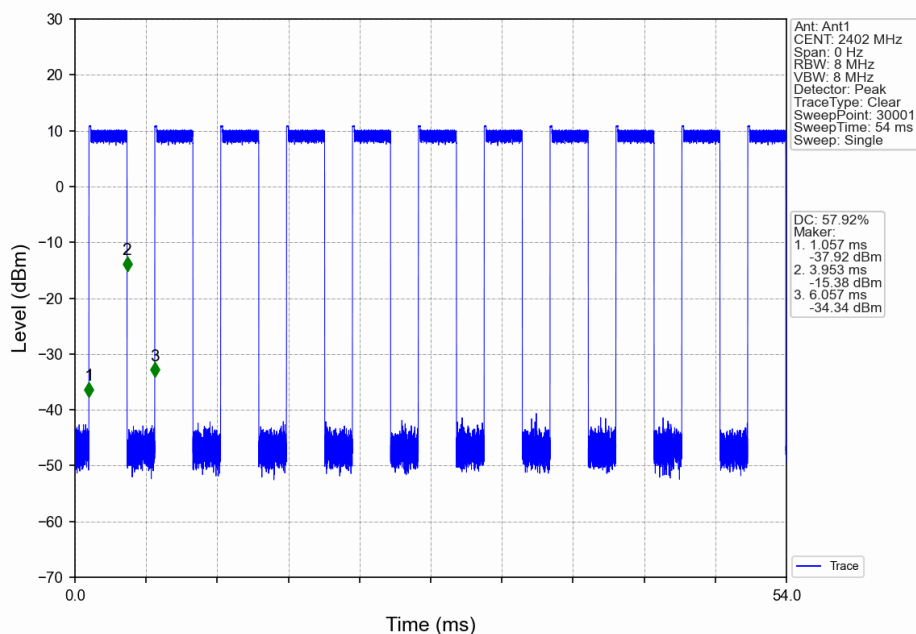
### 1.1.2 Test Graph



### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



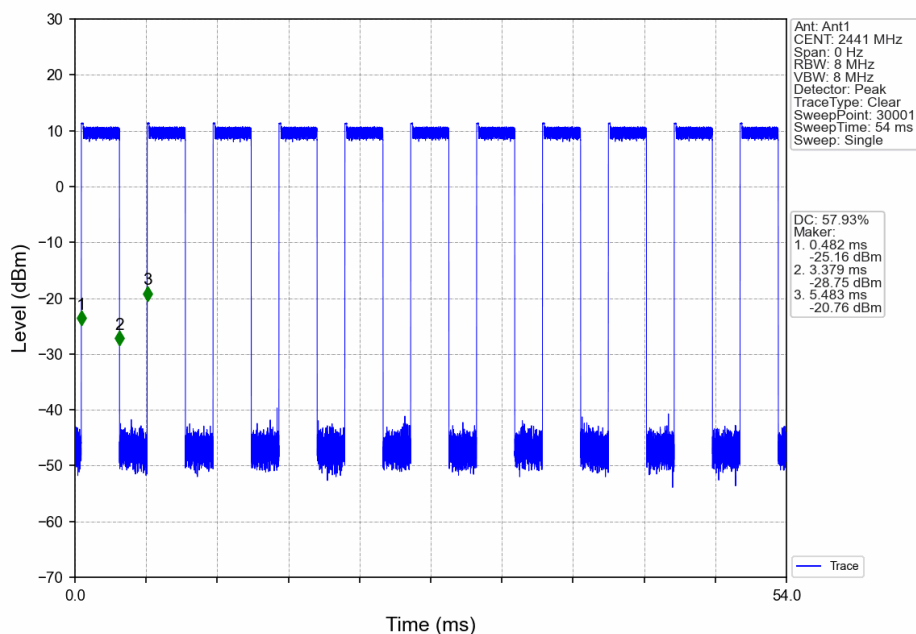
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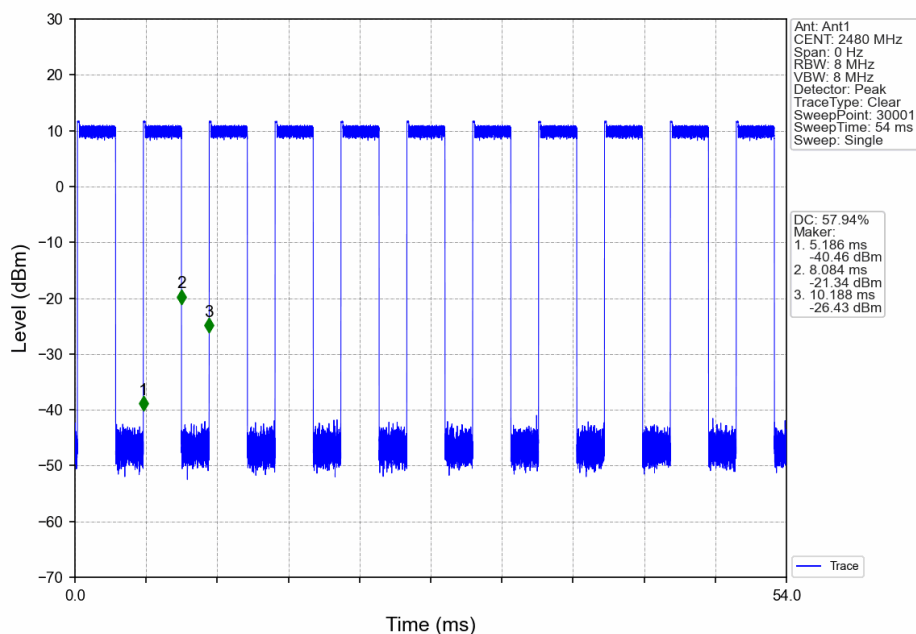
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



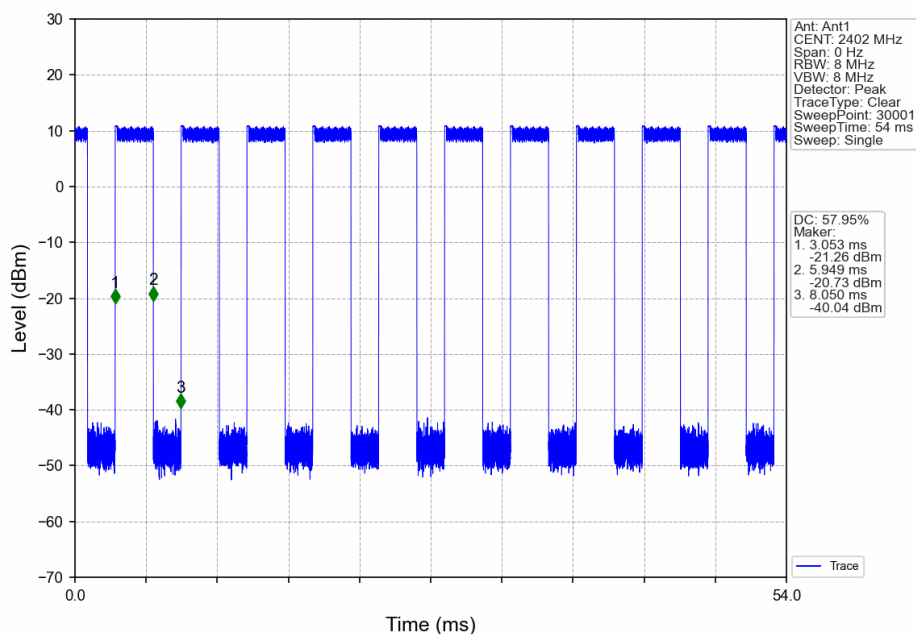
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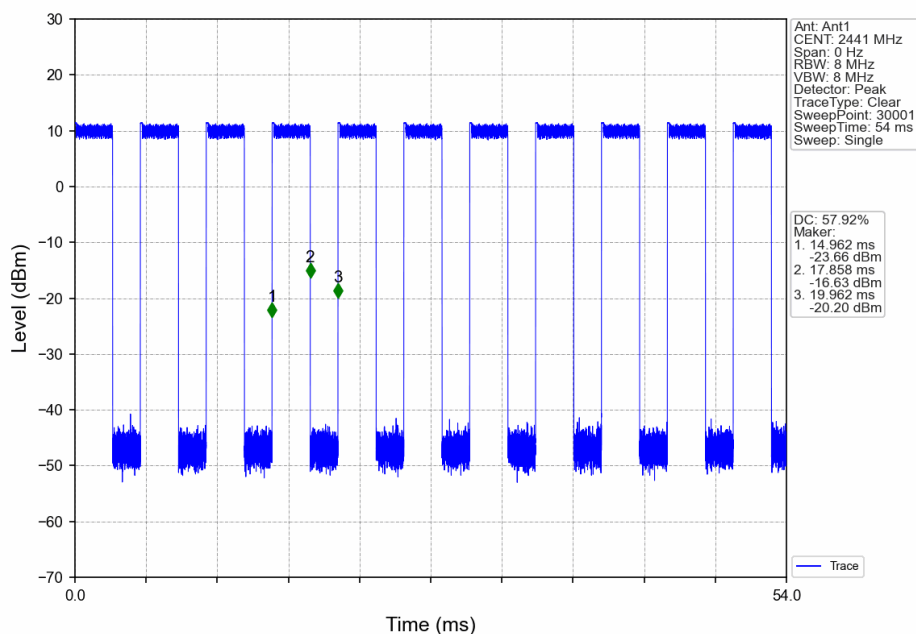
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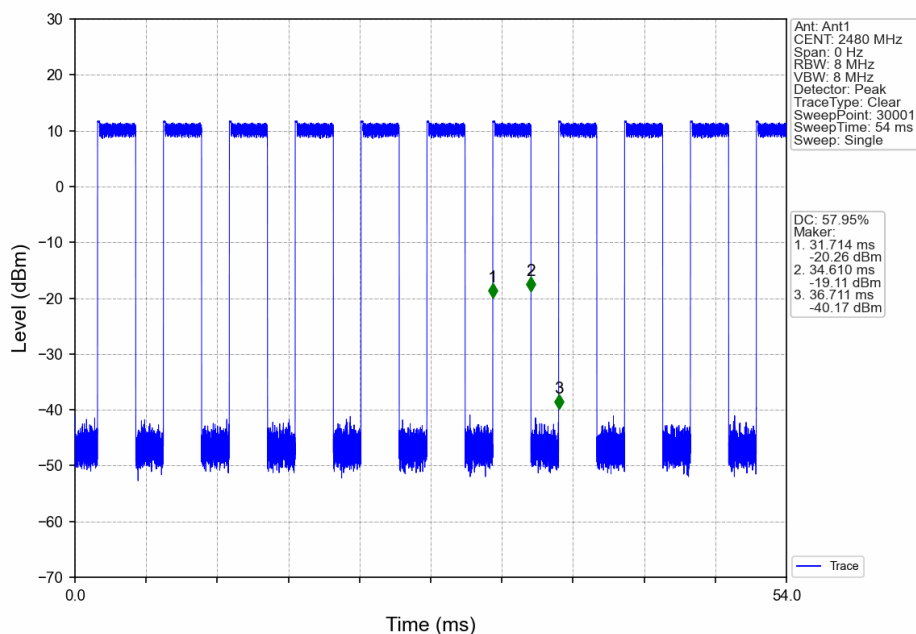
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



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SZEMC-TRF-01 Rev. A/1

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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.888	/	Pass
		2441	DH5	1	0.926	/	Pass
		2480	DH5	1	0.916	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.119	/	Pass
		2441	2DH5	1	1.122	/	Pass
		2480	2DH5	1	1.120	/	Pass
8DPSK	SISO	2402	3DH5	1	1.133	/	Pass
		2441	3DH5	1	1.133	/	Pass
		2480	3DH5	1	1.135	/	Pass



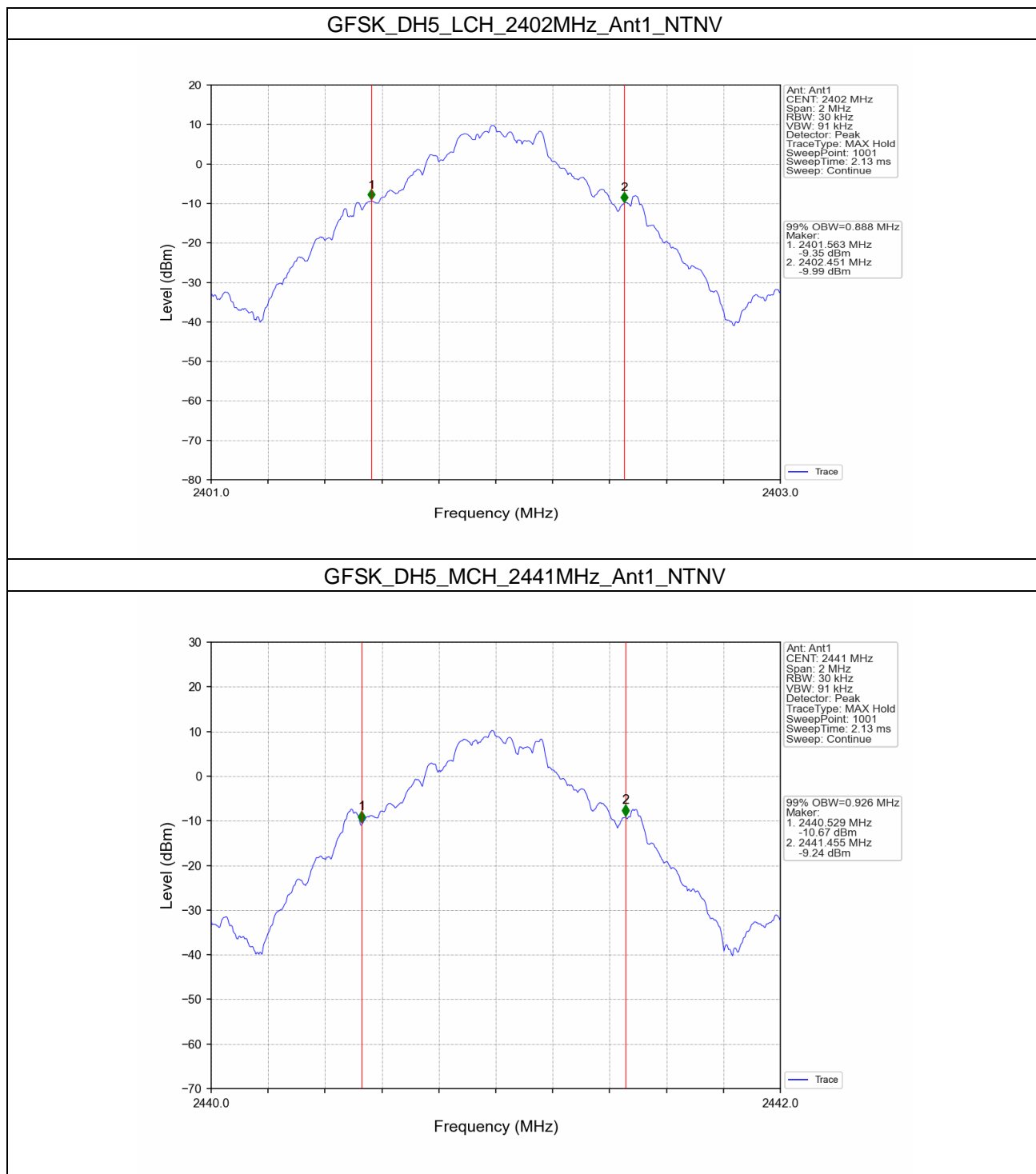
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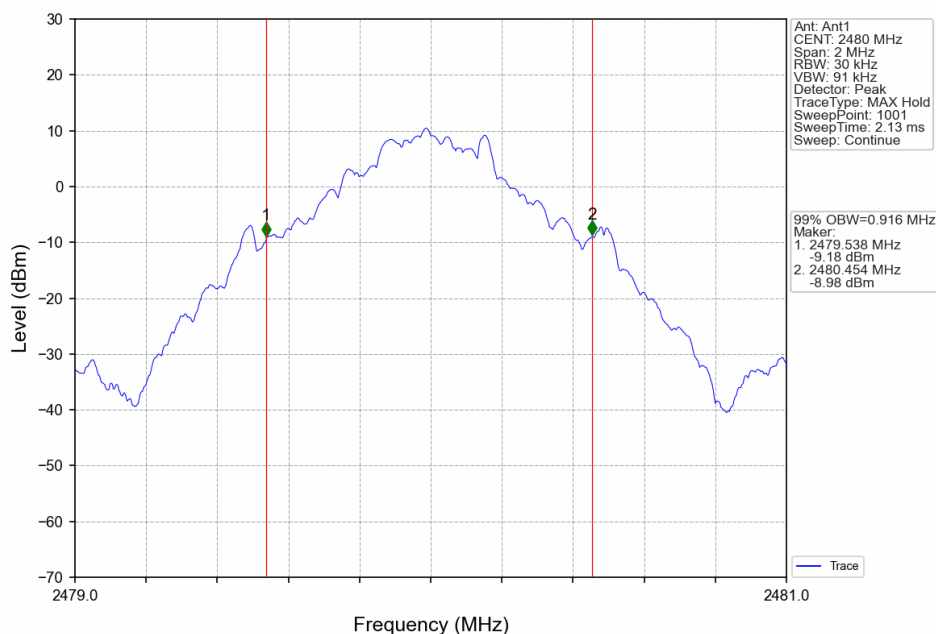
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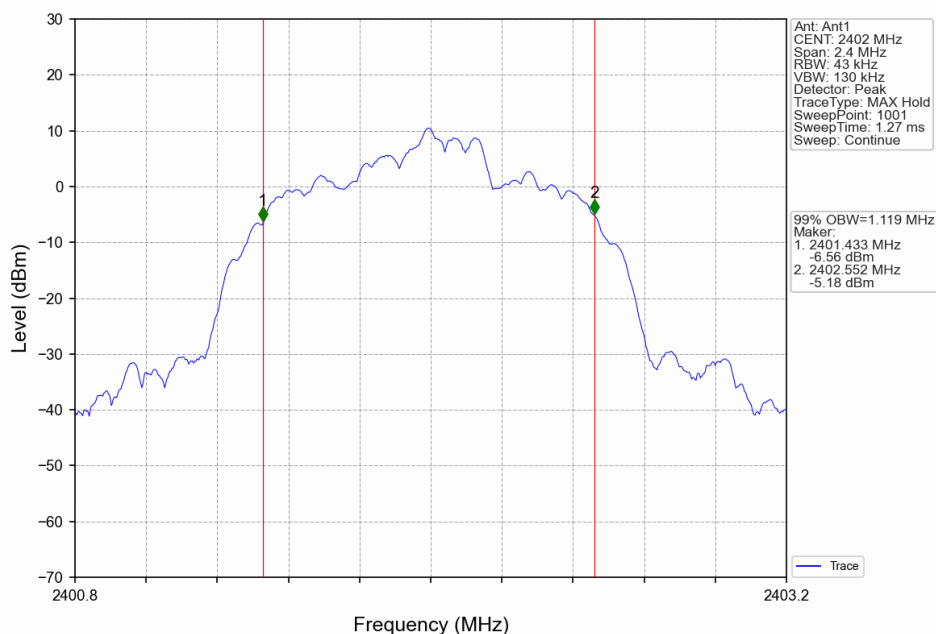
### 2.1.2 Test Graph



### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



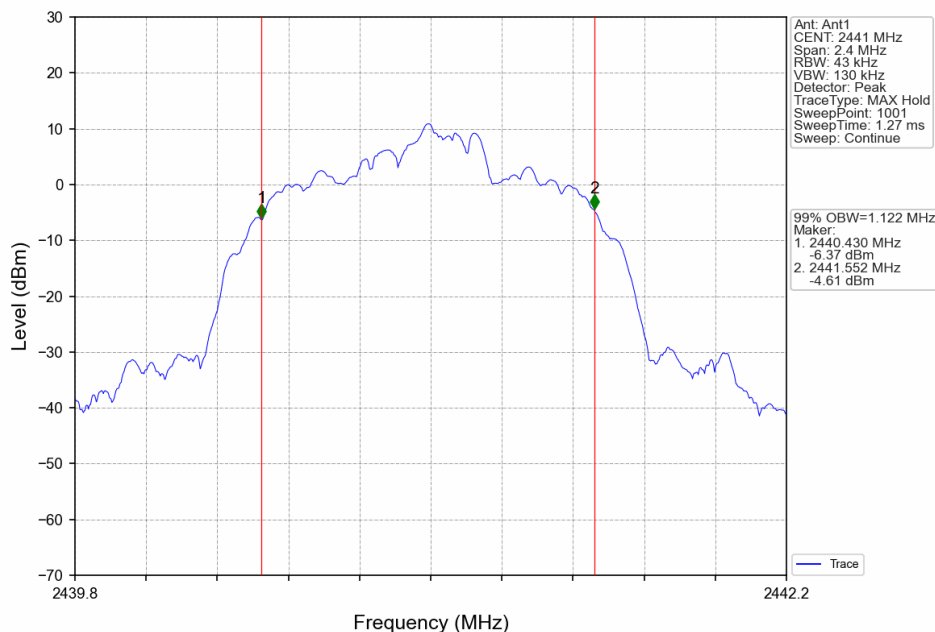
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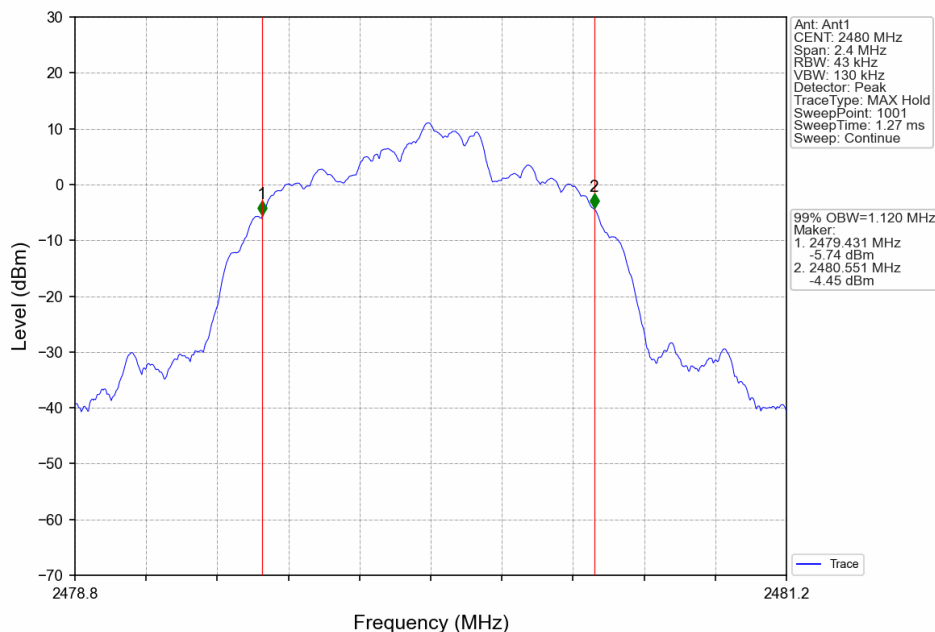
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



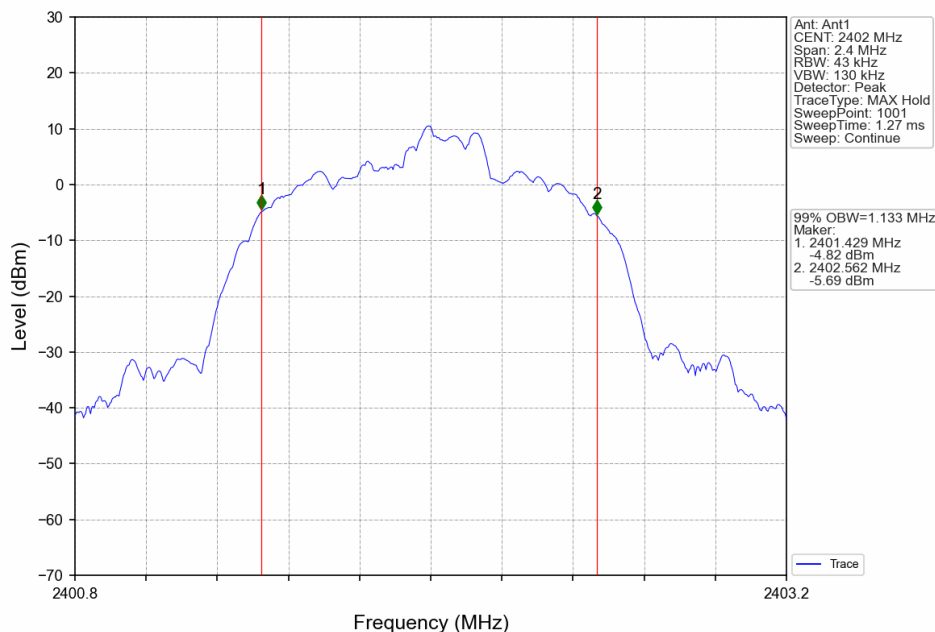
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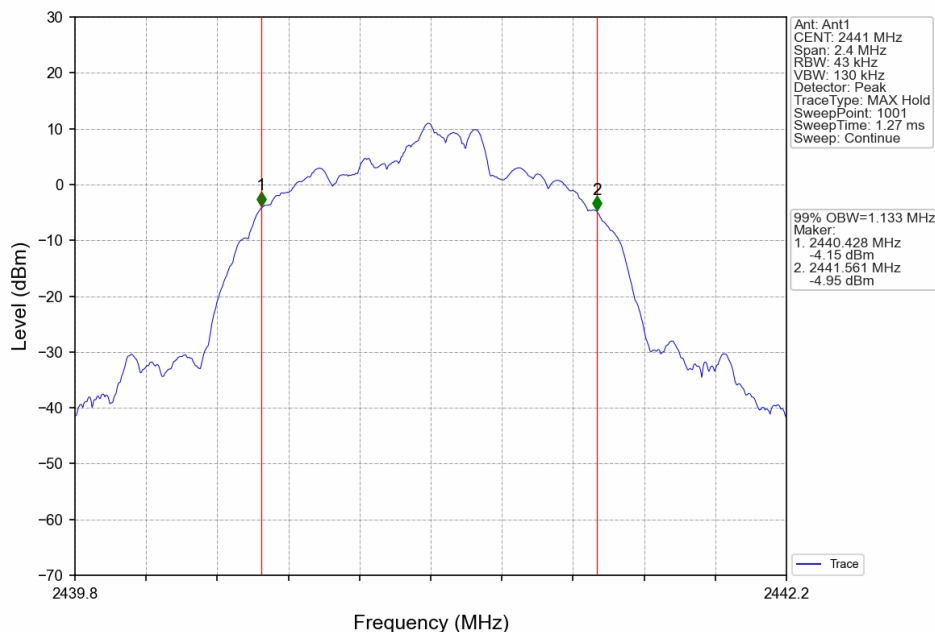
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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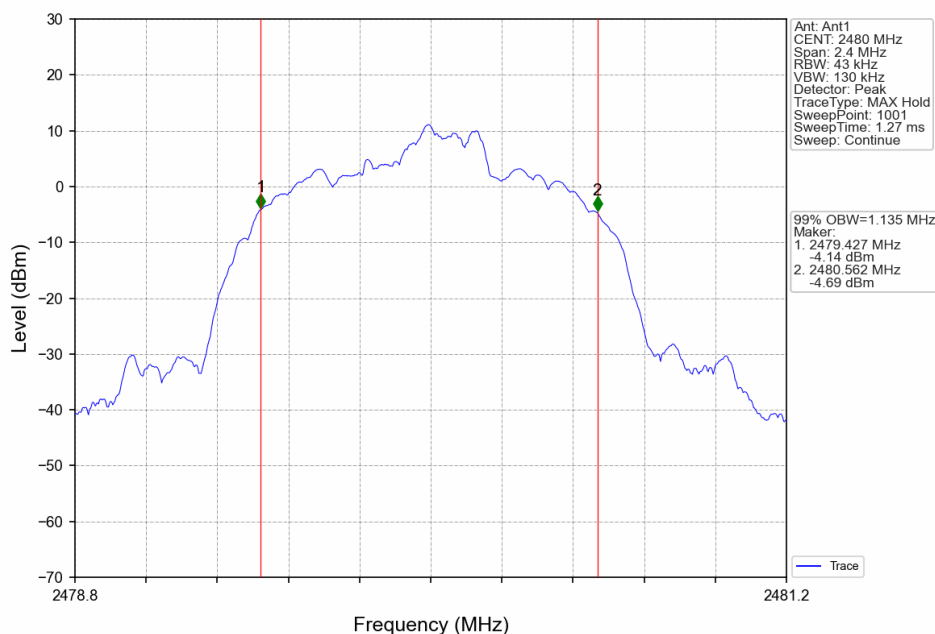
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400141402

Page: 122 of 161

## 2.2 20dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.093	/	Pass
		2441	DH5	1	1.097	/	Pass
		2480	DH5	1	1.096	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.312	/	Pass
		2441	2DH5	1	1.319	/	Pass
		2480	2DH5	1	1.316	/	Pass
8DPSK	SISO	2402	3DH5	1	1.339	/	Pass
		2441	3DH5	1	1.339	/	Pass
		2480	3DH5	1	1.336	/	Pass



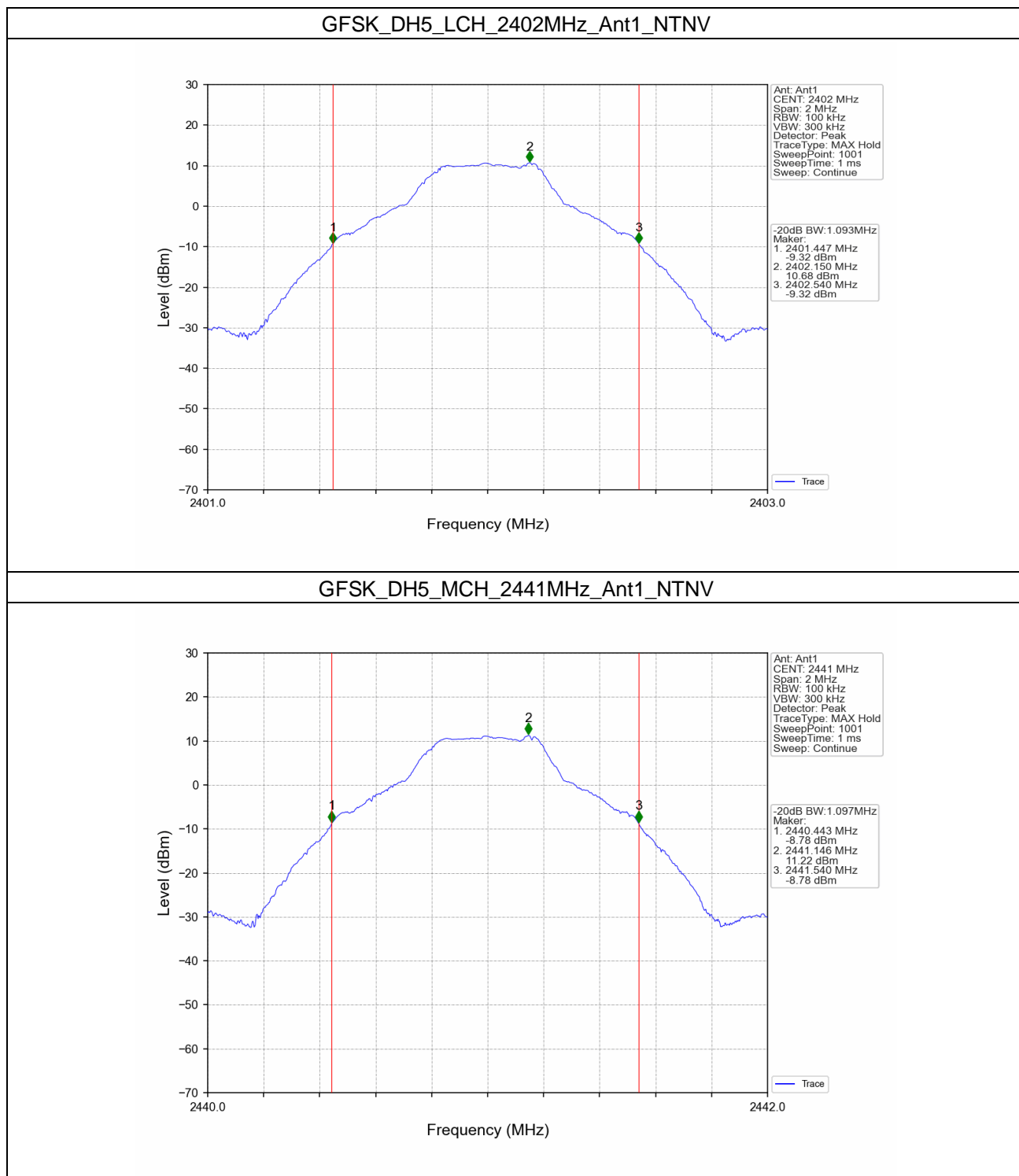
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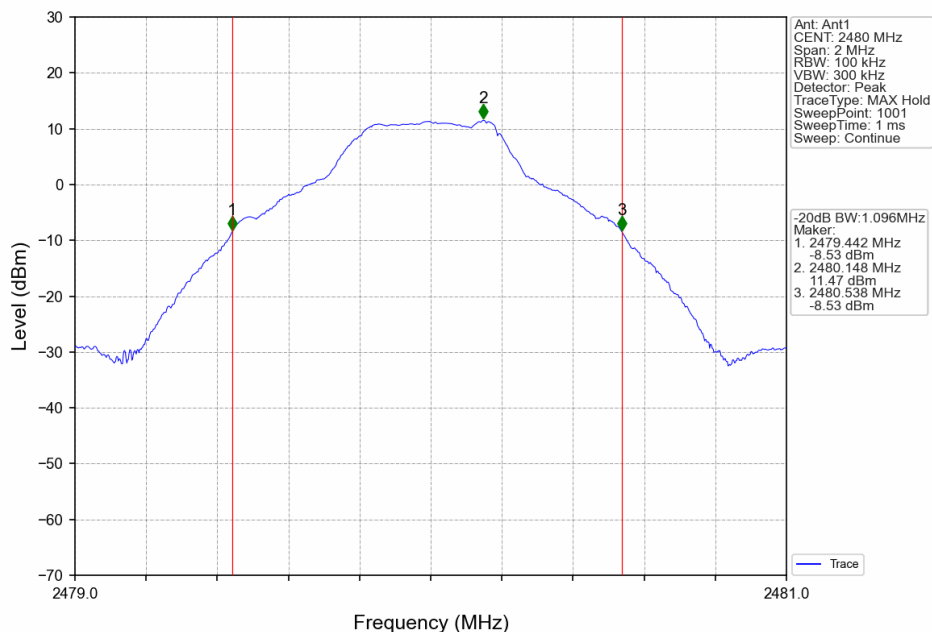
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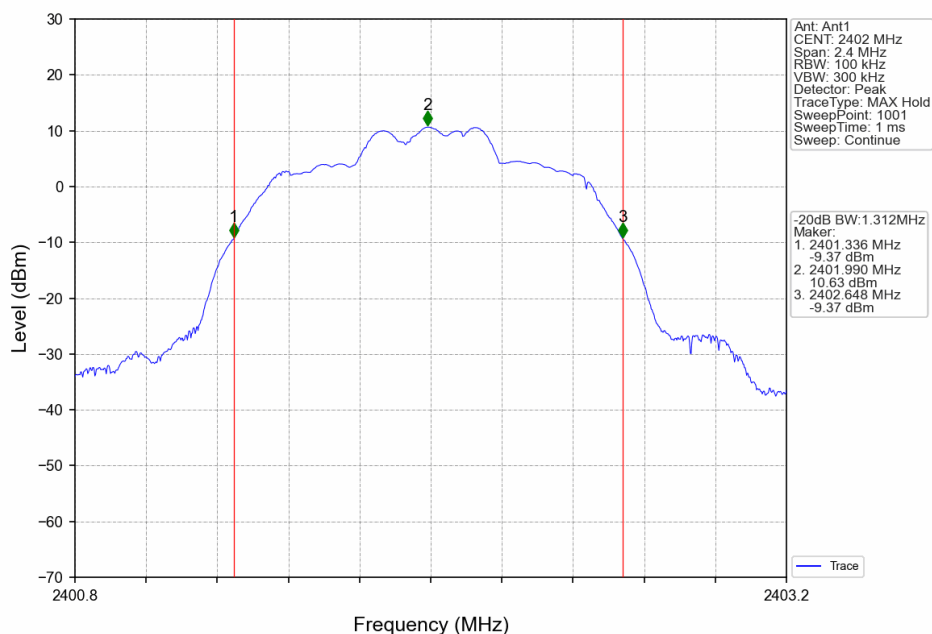
### 2.2.2 Test Graph



### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



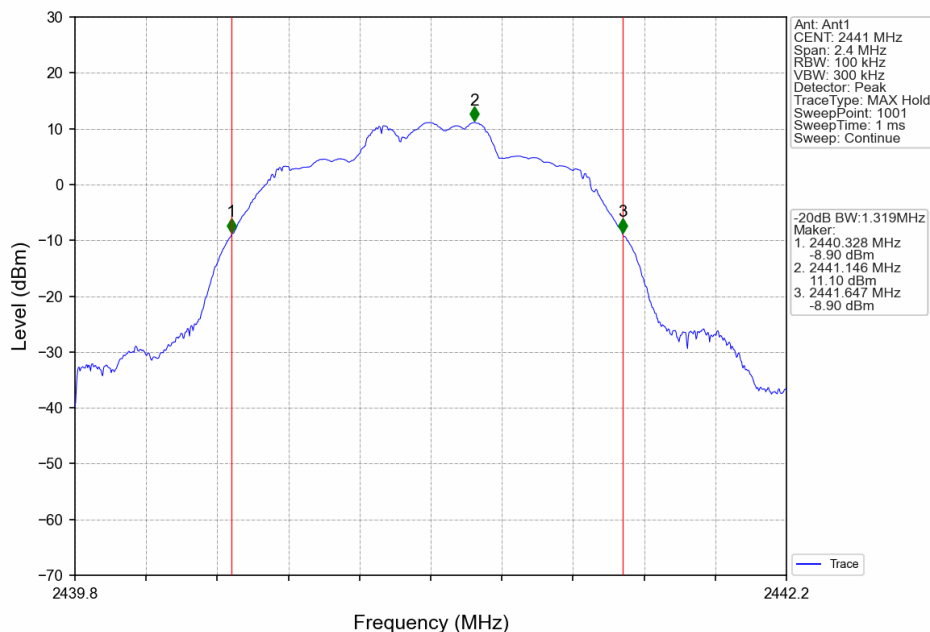
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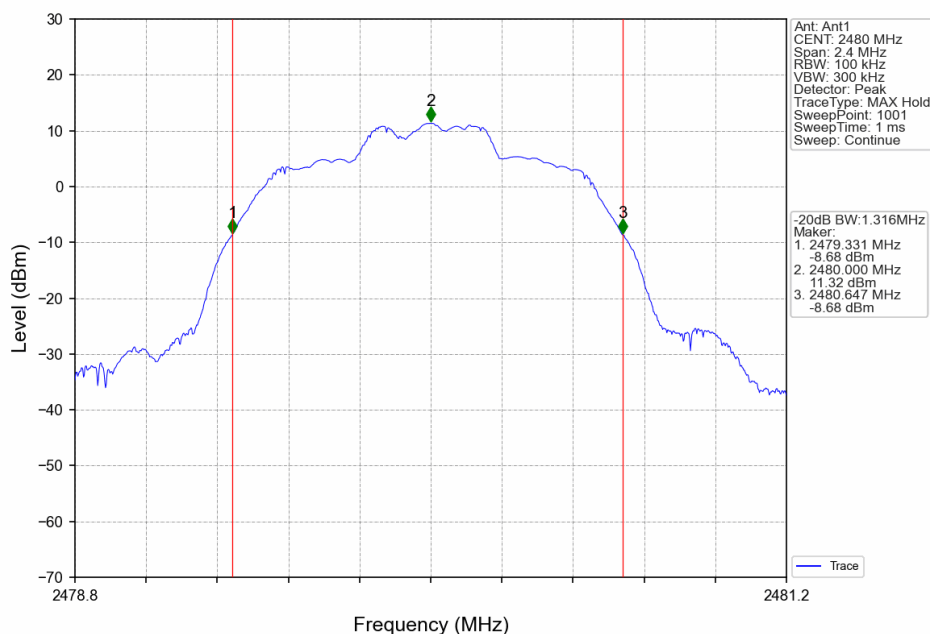
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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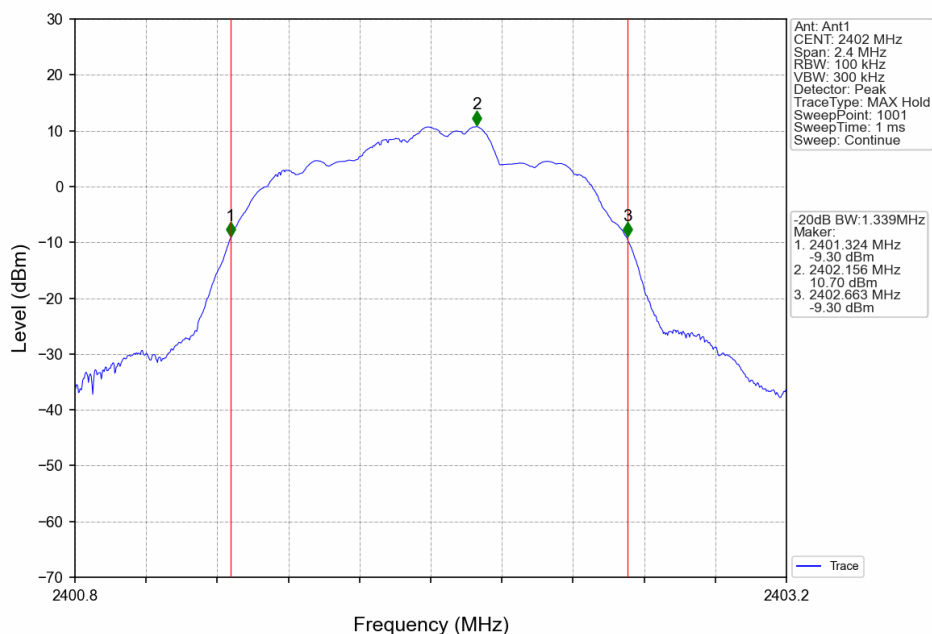
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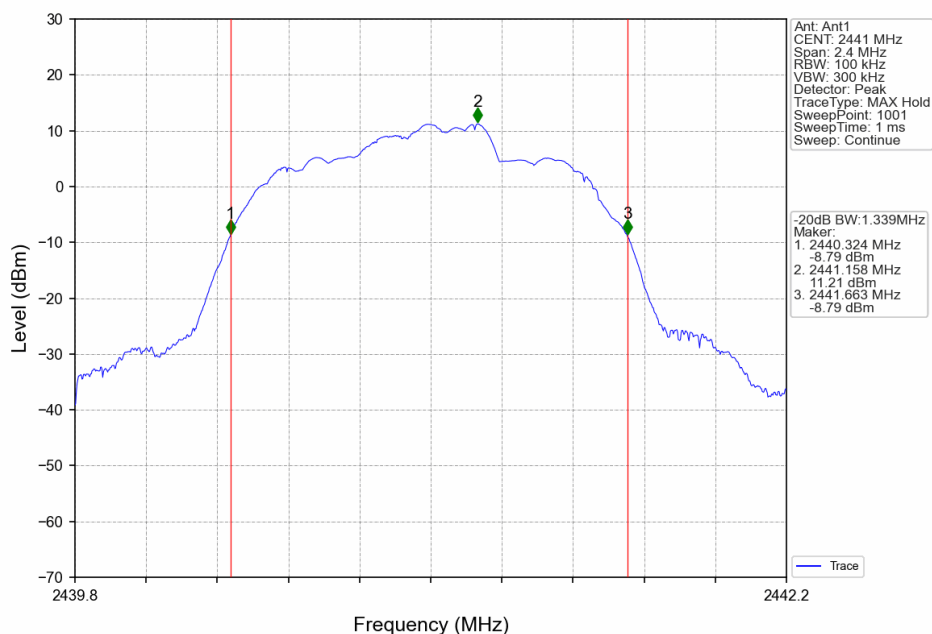
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



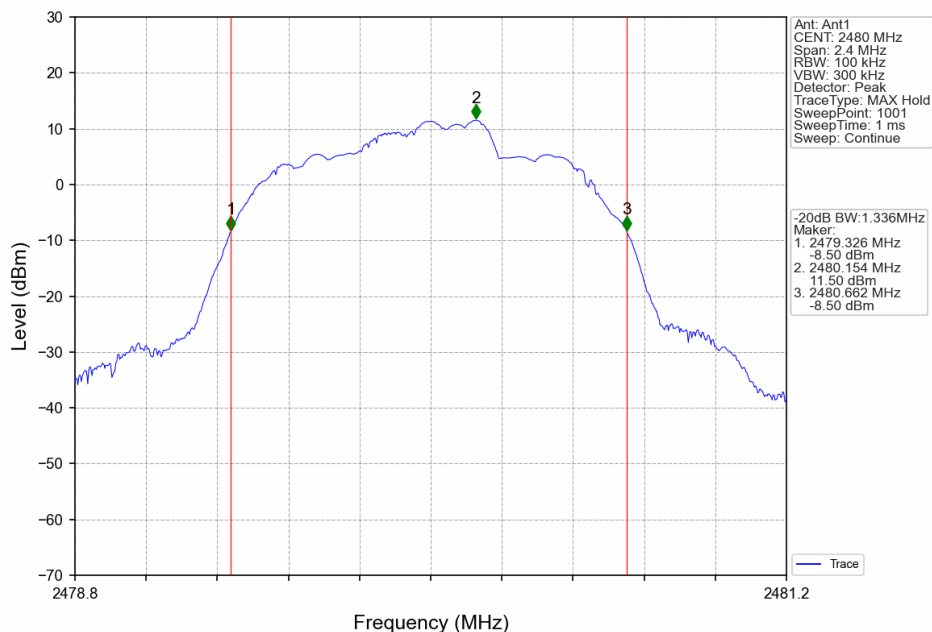
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	10.83	$\leq 20.97$	Pass
		2441	DH5	11.34	$\leq 20.97$	Pass
		2480	DH5	11.64	$\leq 20.97$	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.83	$\leq 20.97$	Pass
		2441	2DH5	11.33	$\leq 20.97$	Pass
		2480	2DH5	11.63	$\leq 20.97$	Pass
8DPSK	SISO	2402	3DH5	10.84	$\leq 20.97$	Pass
		2441	3DH5	11.38	$\leq 20.97$	Pass
		2480	3DH5	11.66	$\leq 20.97$	Pass

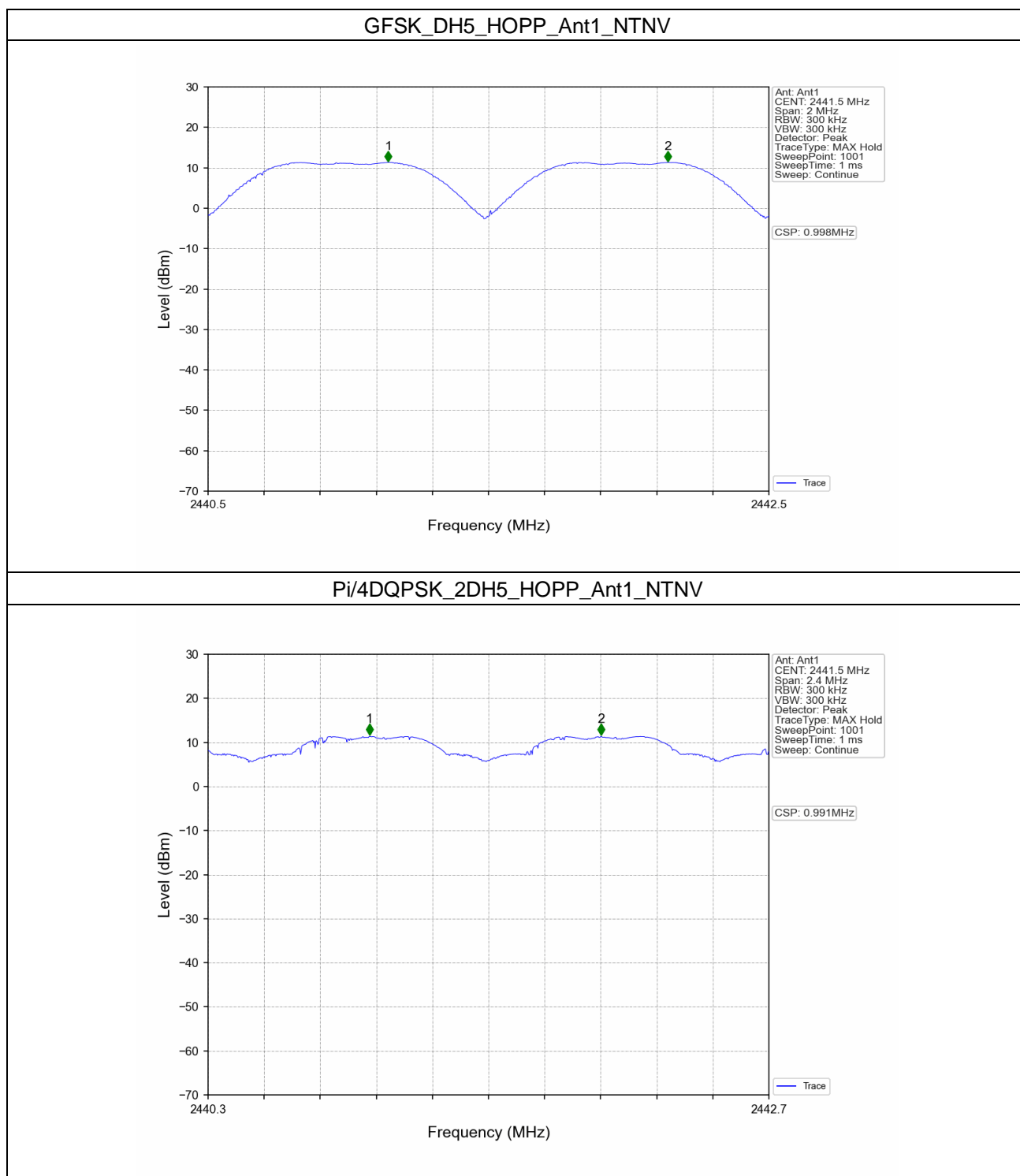
## 4. Carrier Frequency Separation

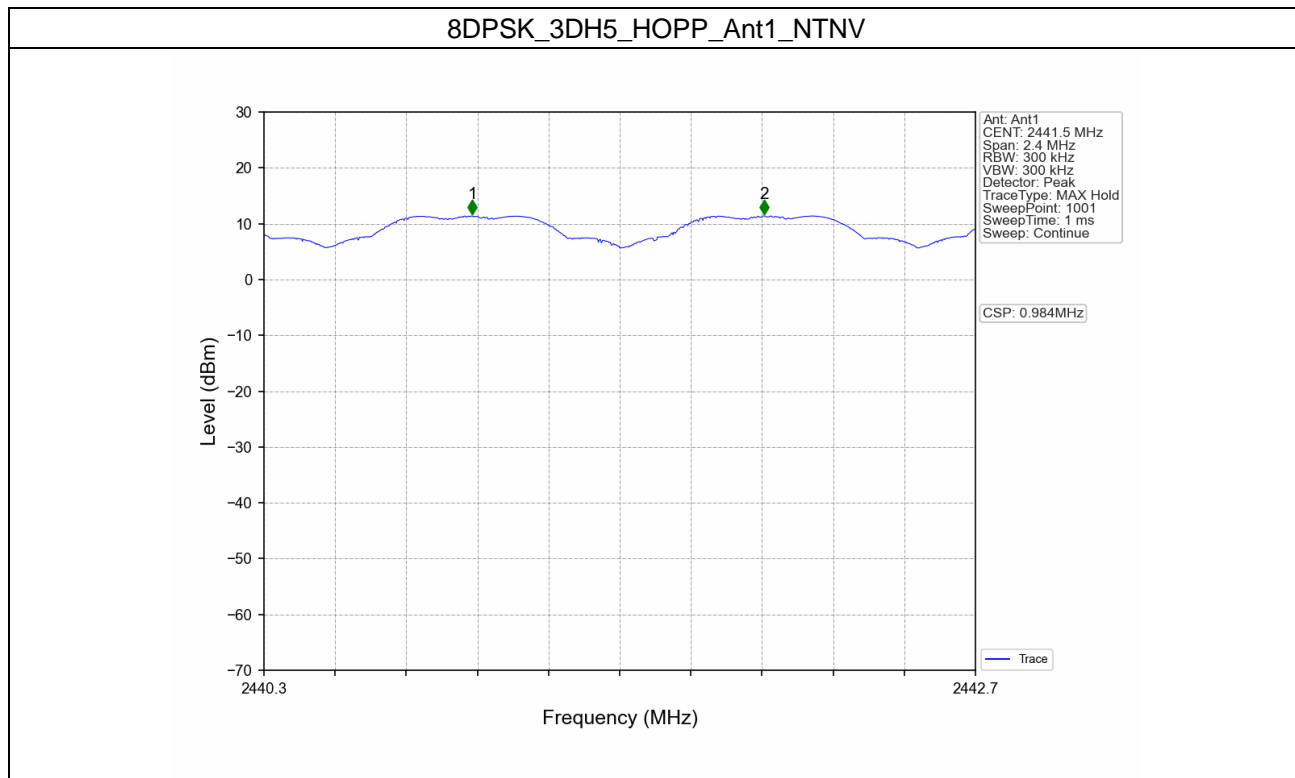
### 4.1 Ant1

#### 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	0.998	1.097	$\geq 0.731$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.991	1.319	$\geq 0.879$	Pass
8DPSK	SISO	HOPP	3DH5	0.984	1.339	$\geq 0.893$	Pass

### 4.1.2 Test Graph





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## 5. Number of Hopping Frequencies

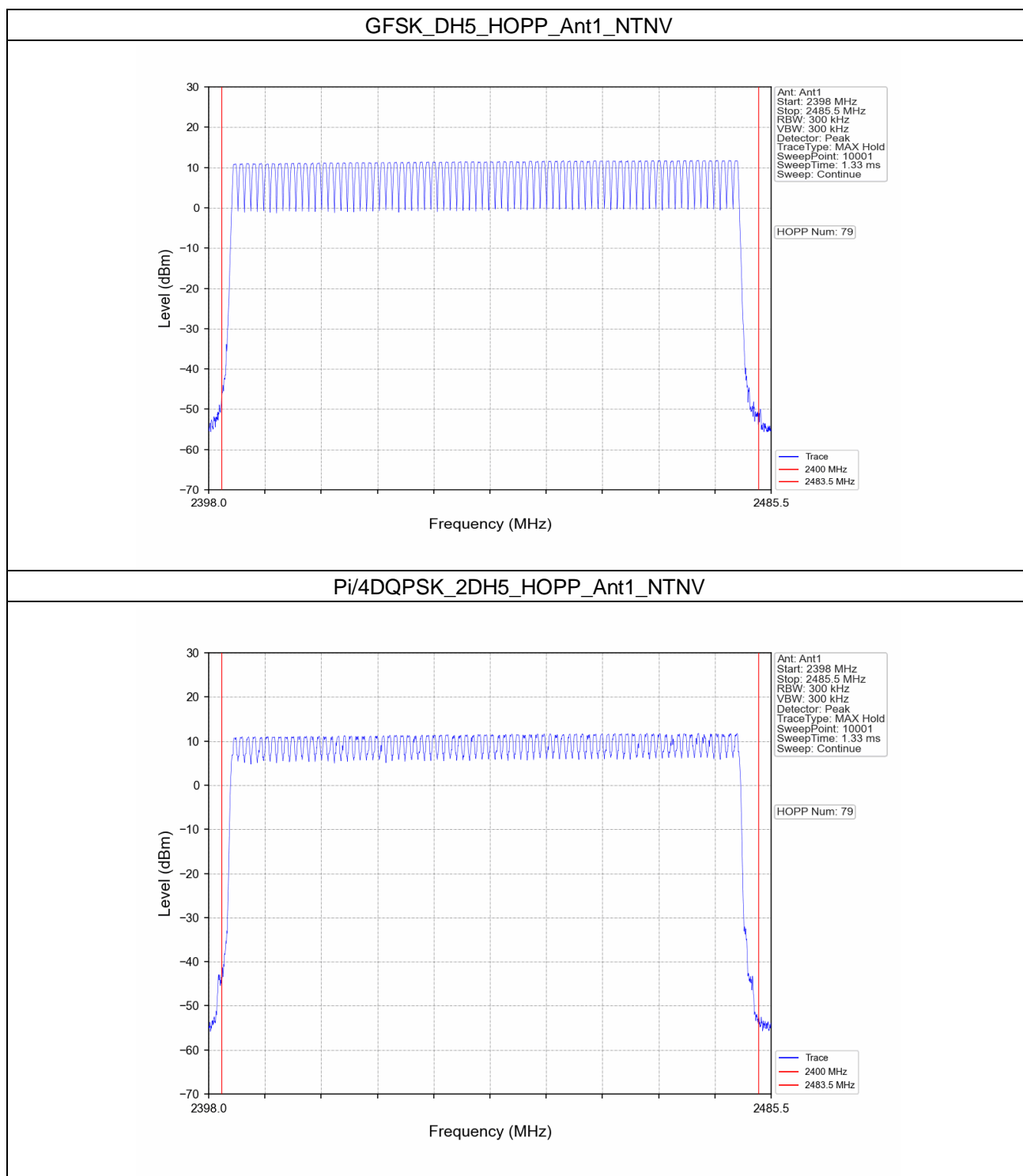
### 5.1 HoppNum

#### 5.1.1 Test Result

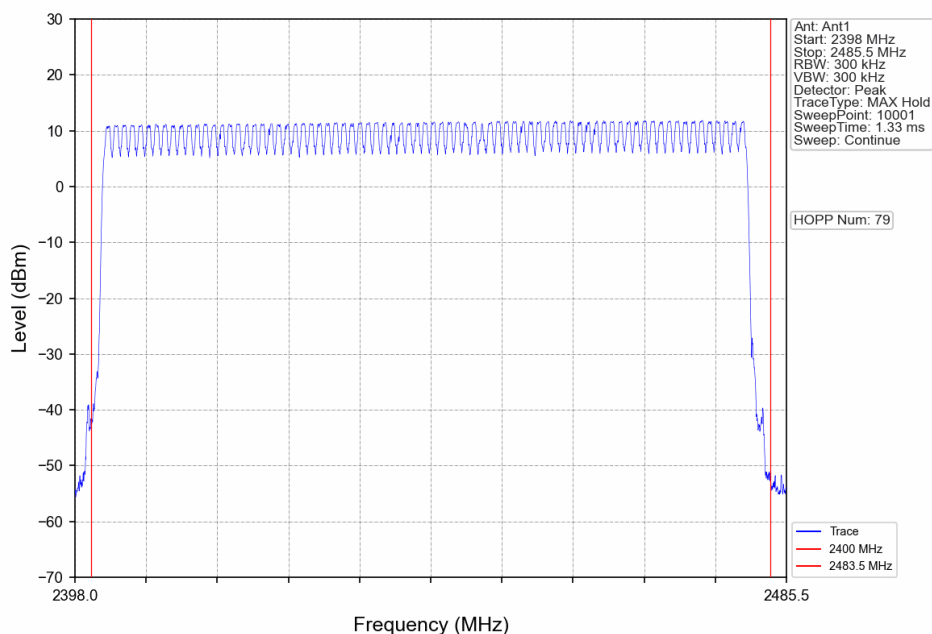
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	$\geq 15$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	$\geq 15$	Pass
8DPSK	SISO	HOPP	3DH5	79	$\geq 15$	Pass



### 5.1.2 Test Graph



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



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## 6. Time of Occupancy (Dwell Time)

### 6.1 Ant1

#### 6.1.1 Test Result

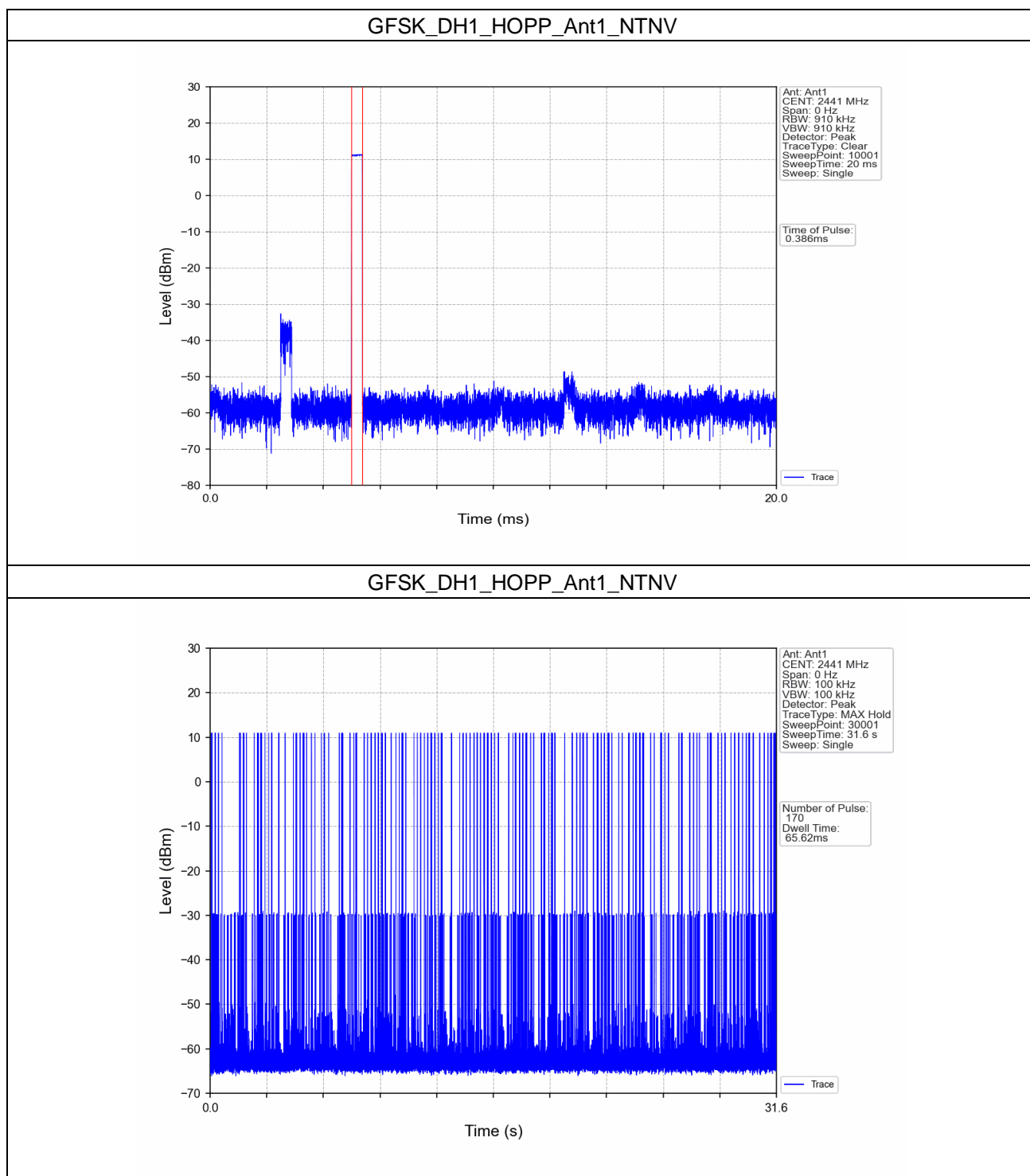
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	170	65.620	<=400	Pass
			DH3	1.648	31.600	98	161.504	<=400	Pass
			DH5	2.892	31.600	79	228.468	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	151	59.796	<=400	Pass
			2DH3	1.654	31.600	97	160.438	<=400	Pass
			2DH5	2.902	31.600	82	237.964	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	150	59.400	<=400	Pass
			3DH3	1.650	31.600	112	184.800	<=400	Pass
			3DH5	2.896	31.600	68	196.928	<=400	Pass



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### 6.1.2 Test Graph

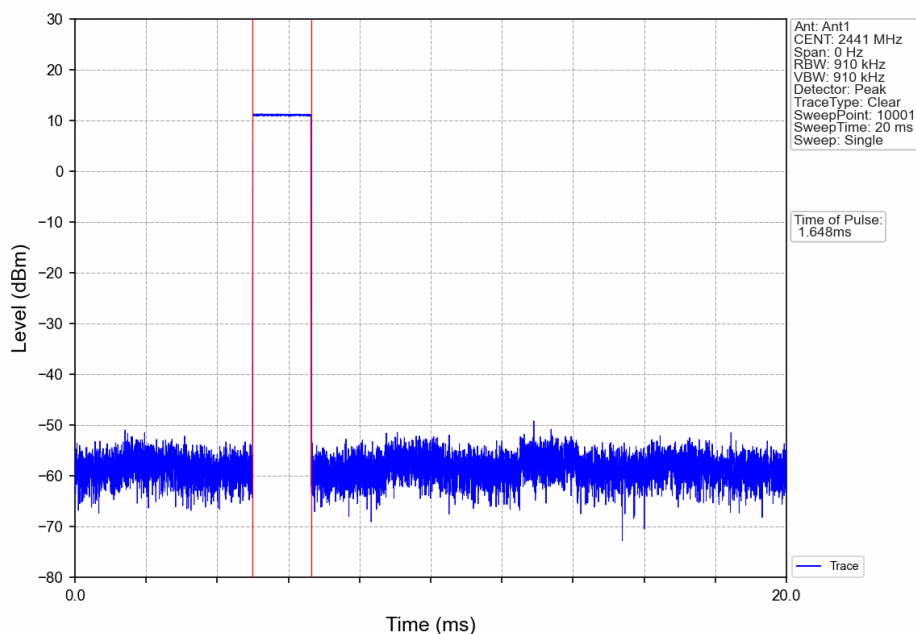


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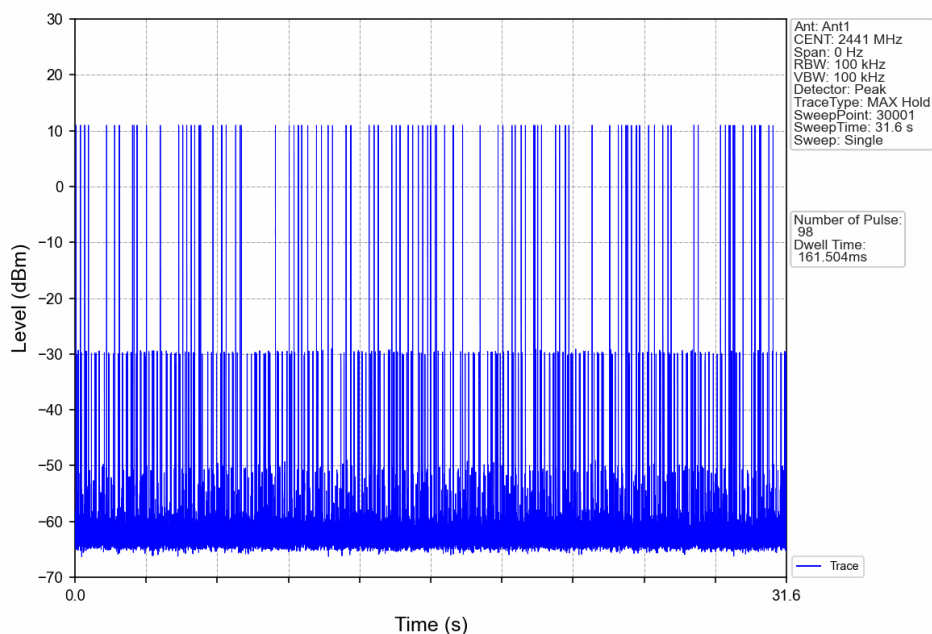
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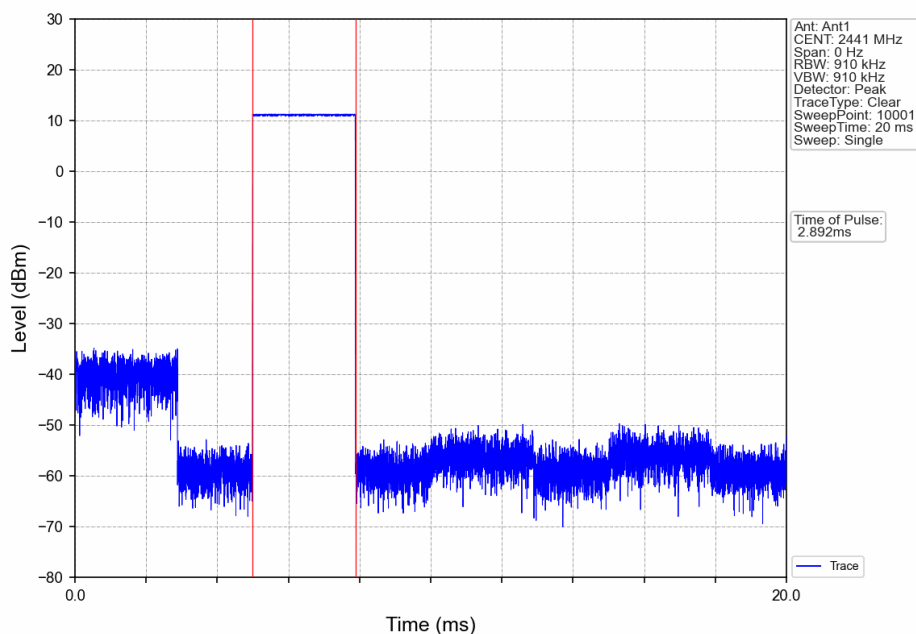
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



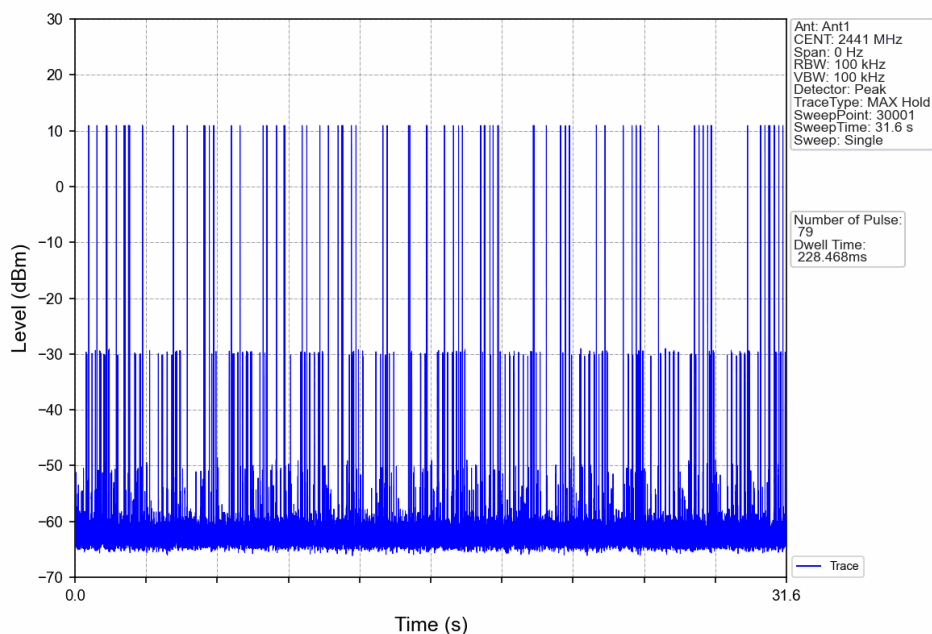
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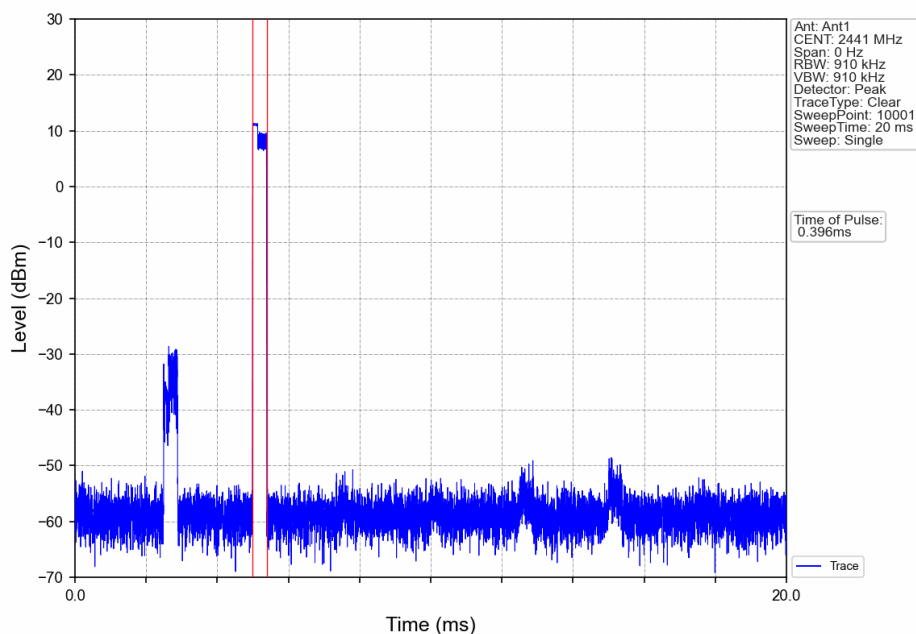
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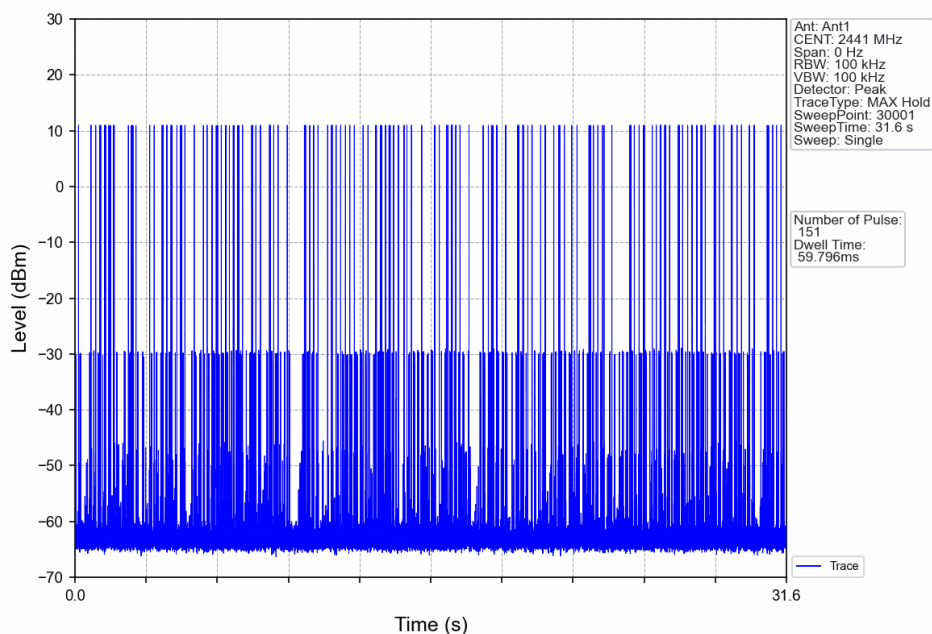
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



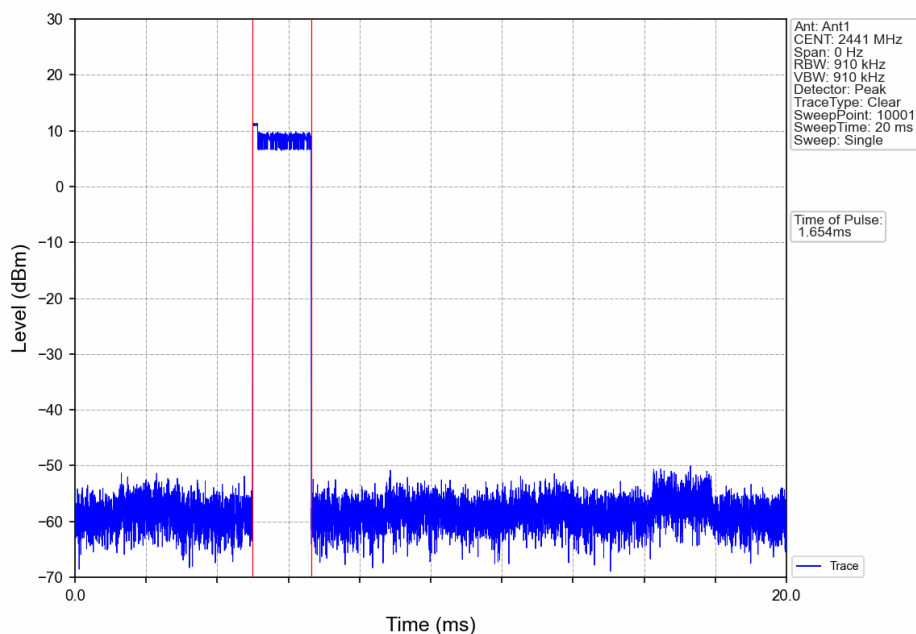
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



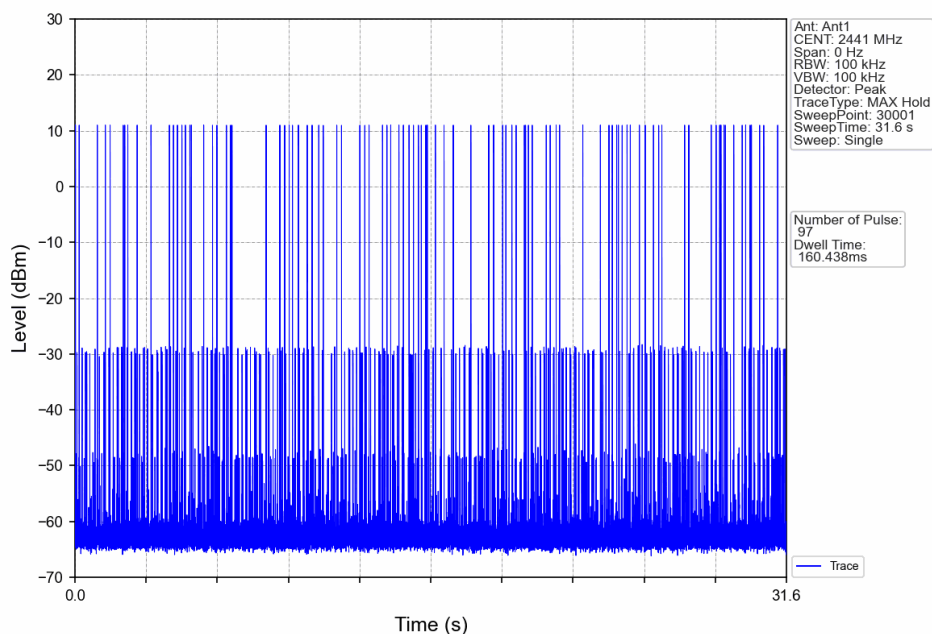
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Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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

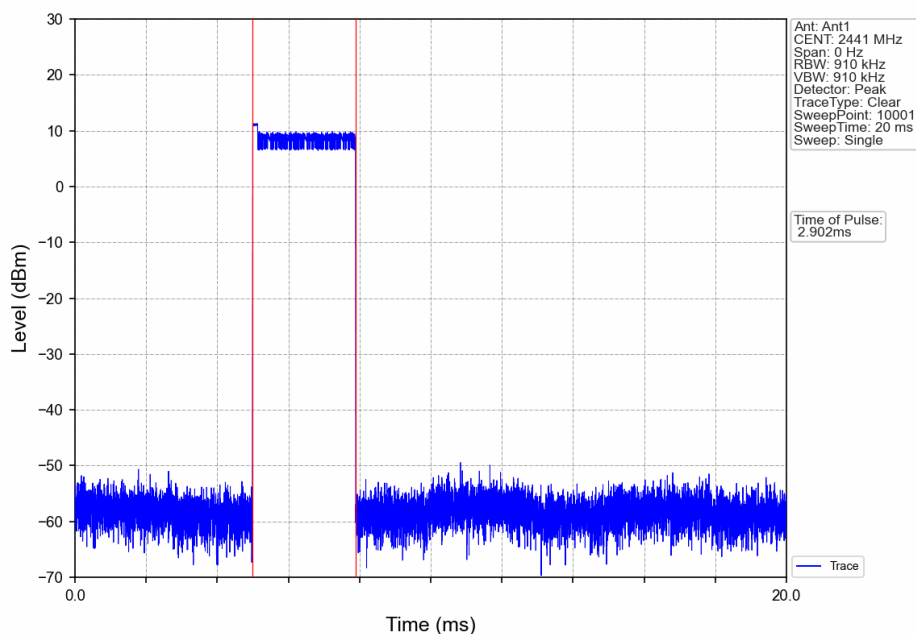


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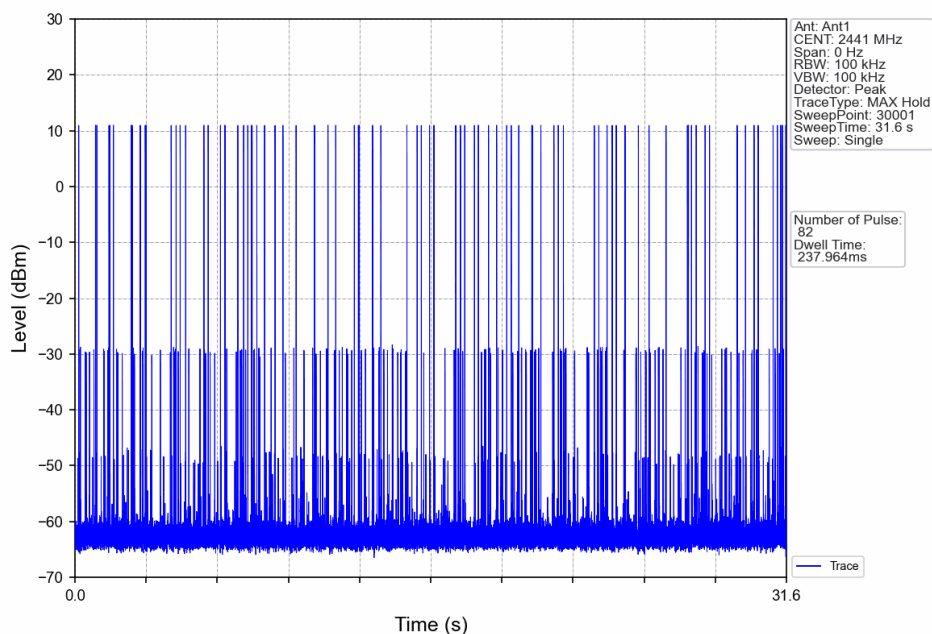
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

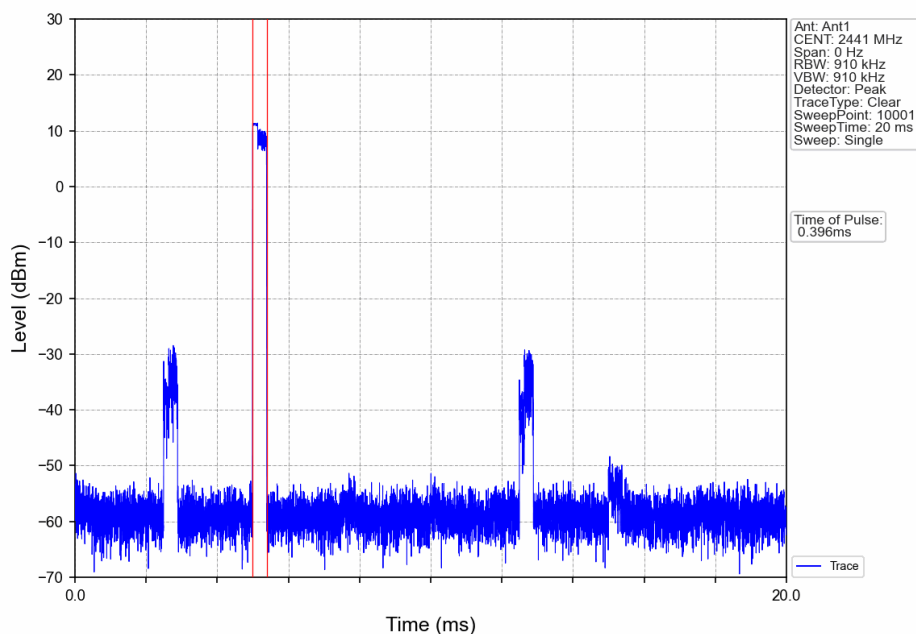


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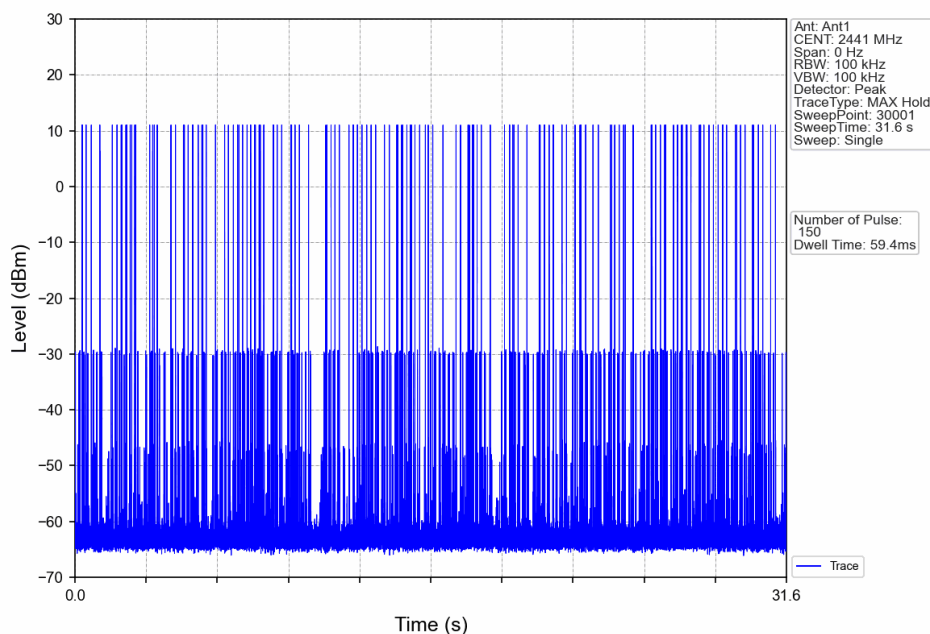
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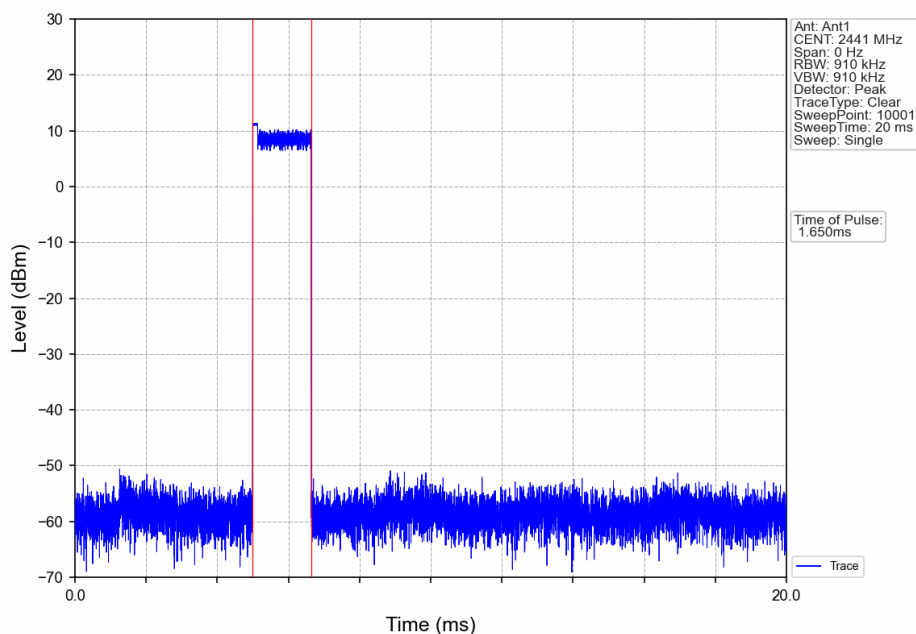
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



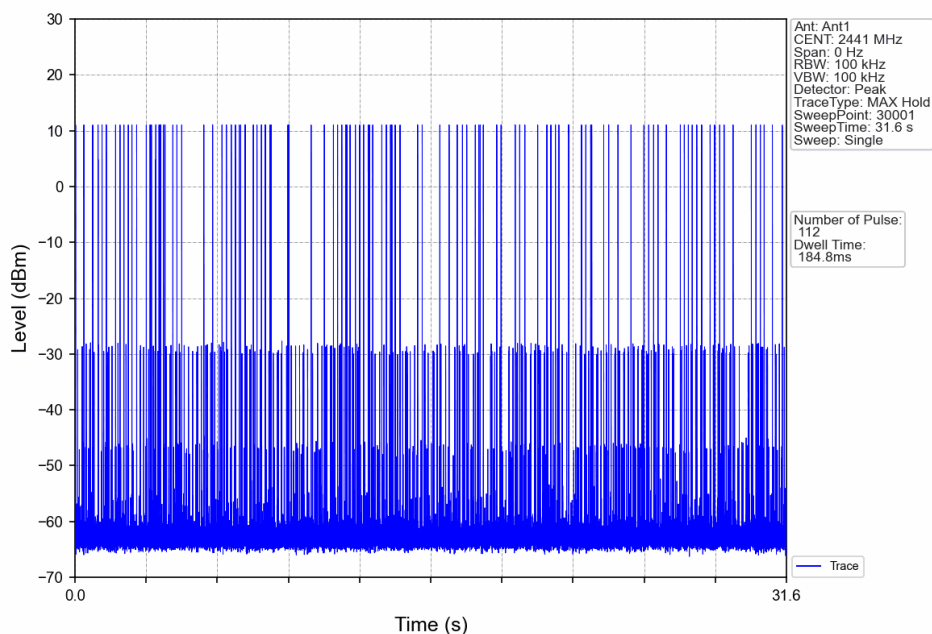
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



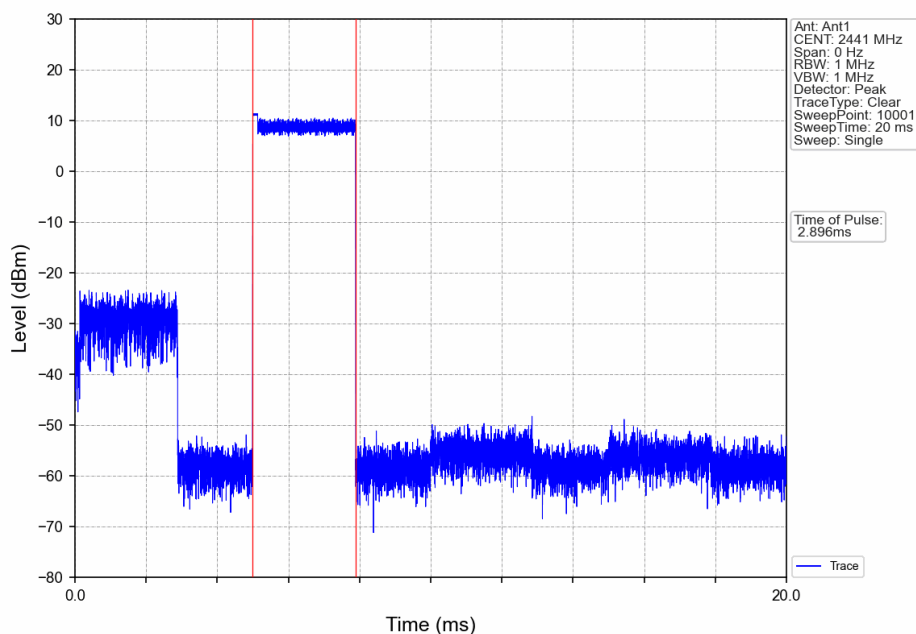
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



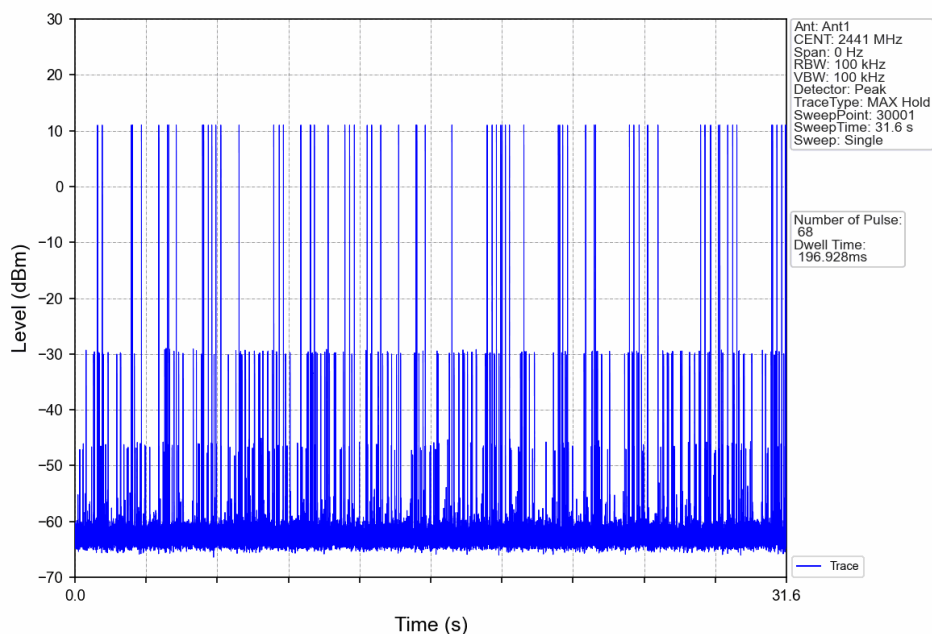
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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



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



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

#### 7.1 Ref

##### 7.1.1 Test Result

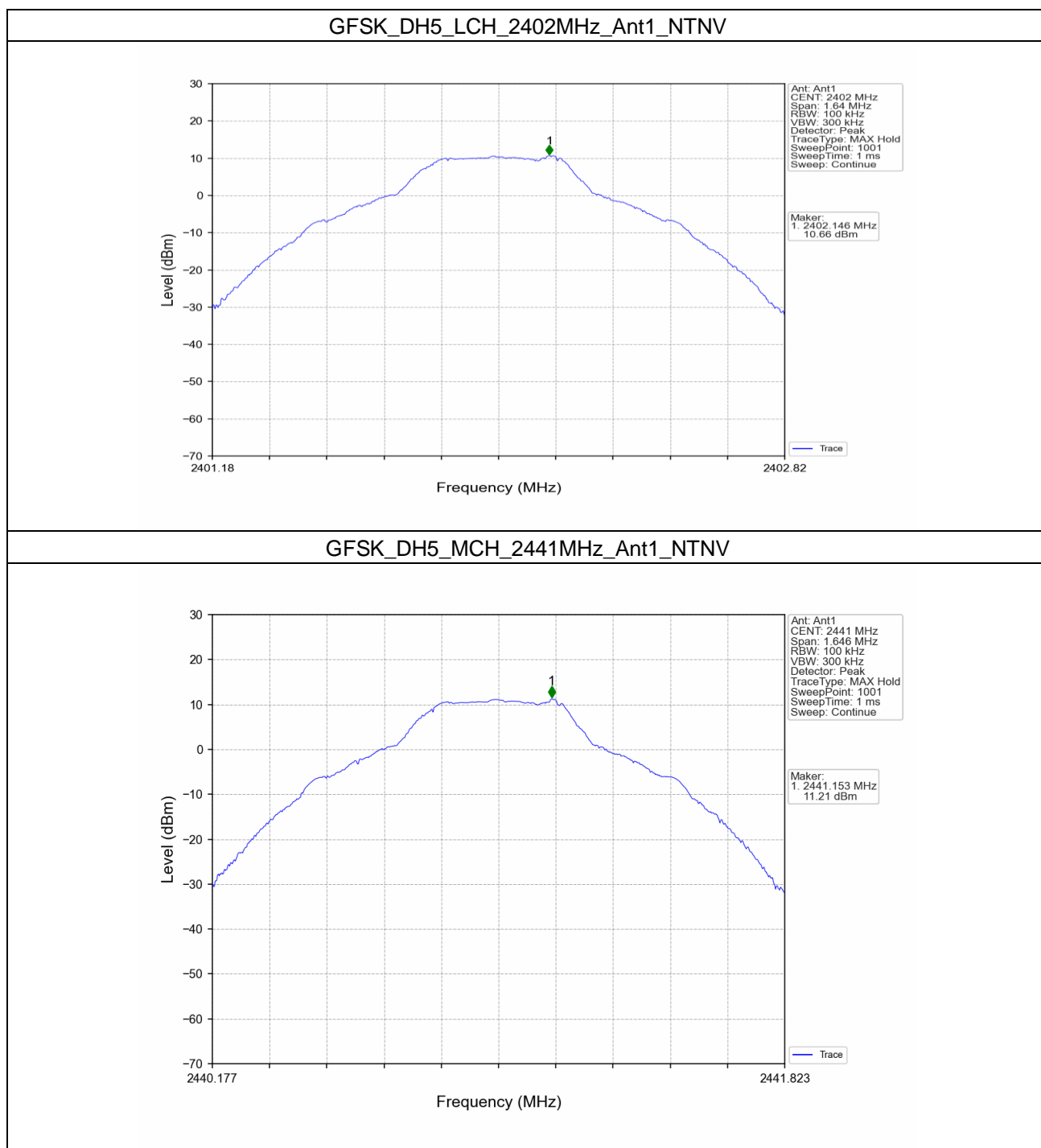
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	10.66
		2441	DH5	1	11.21
		2480	DH5	1	11.34
Pi/4DQPSK	SISO	2402	2DH5	1	10.60
		2441	2DH5	1	11.09
		2480	2DH5	1	11.27
8DPSK	SISO	2402	3DH5	1	10.65
		2441	3DH5	1	11.17
		2480	3DH5	1	11.46



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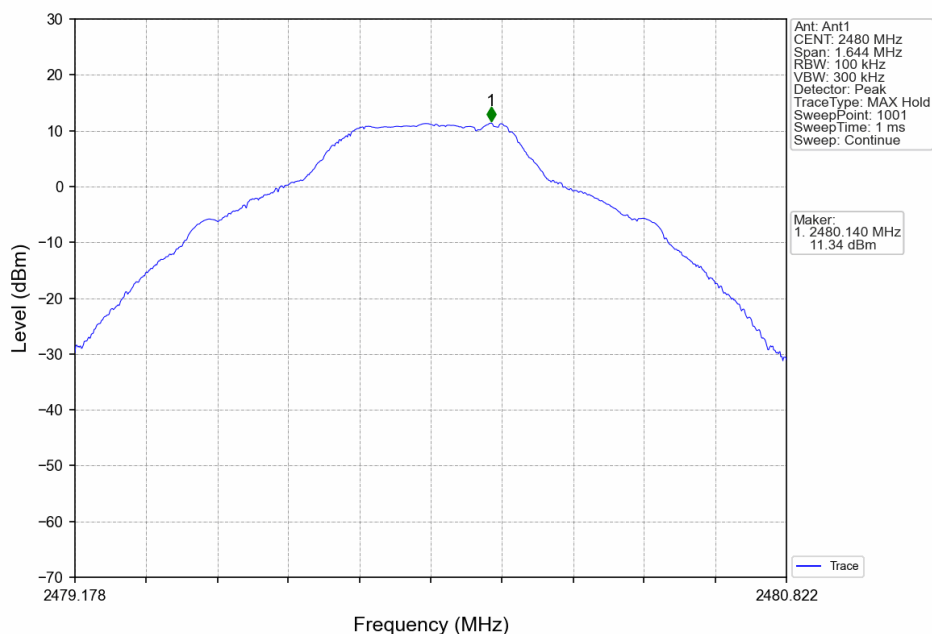
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### 7.1.2 Test Graph

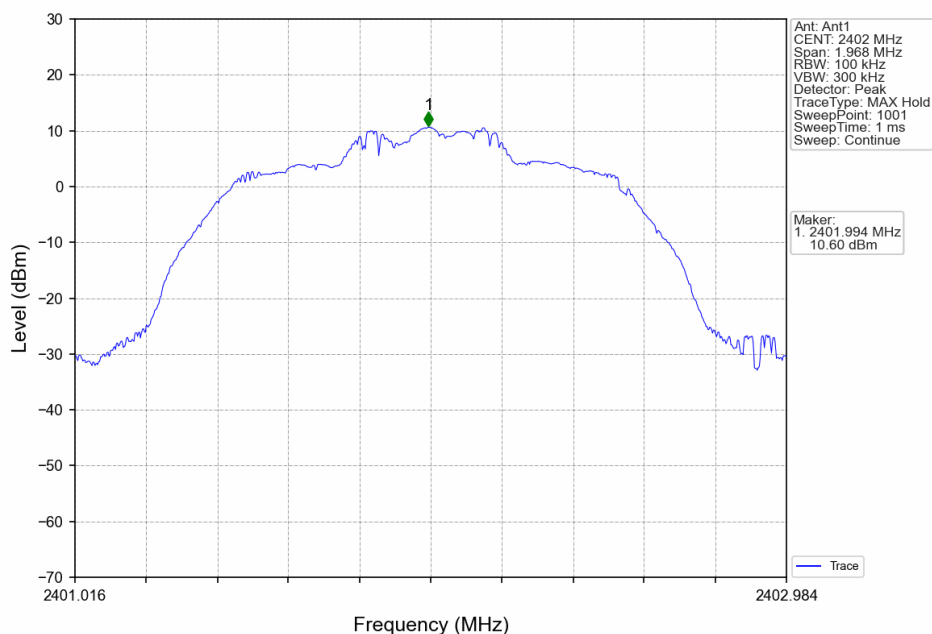




### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



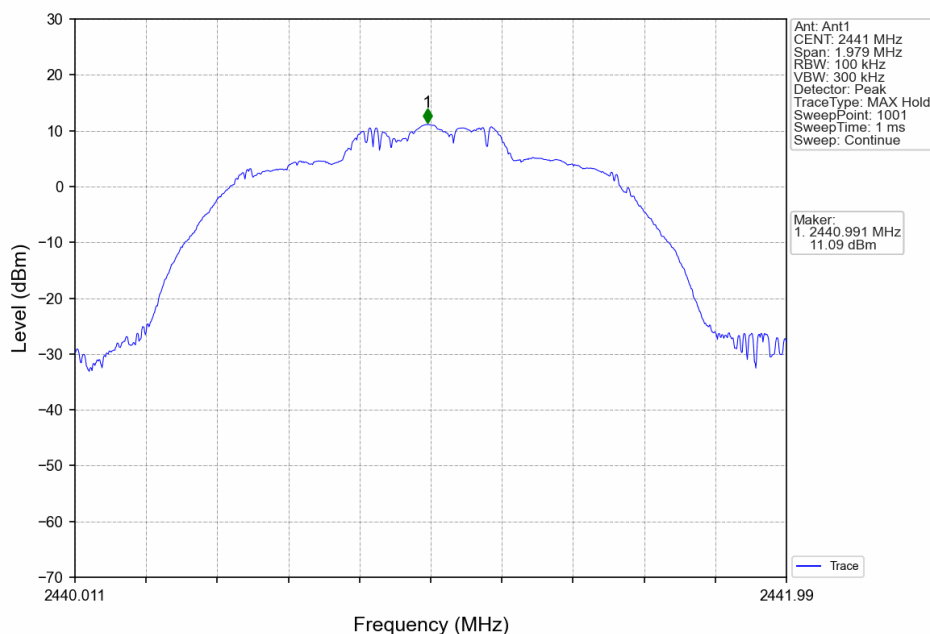
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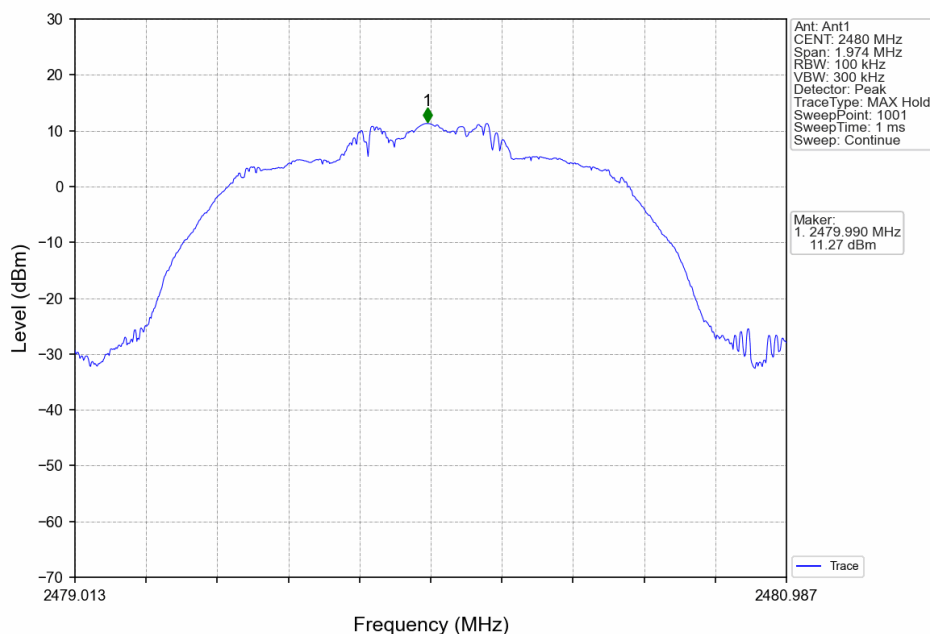
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



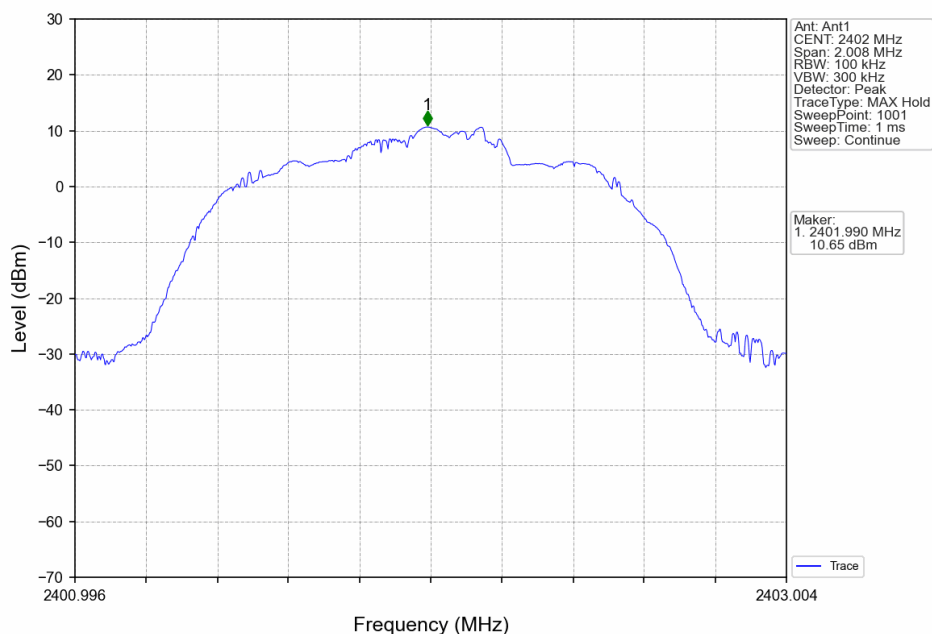
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



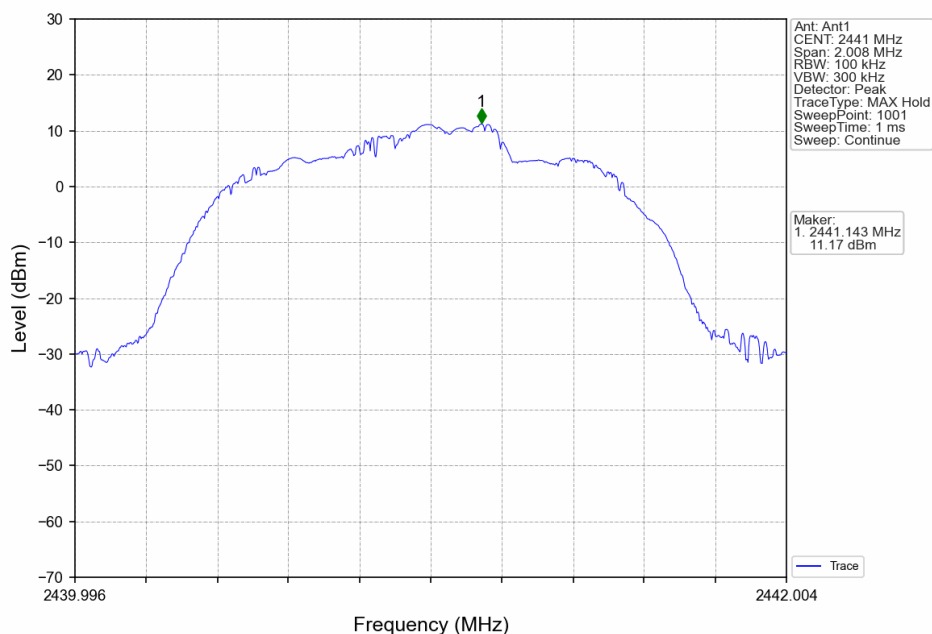
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



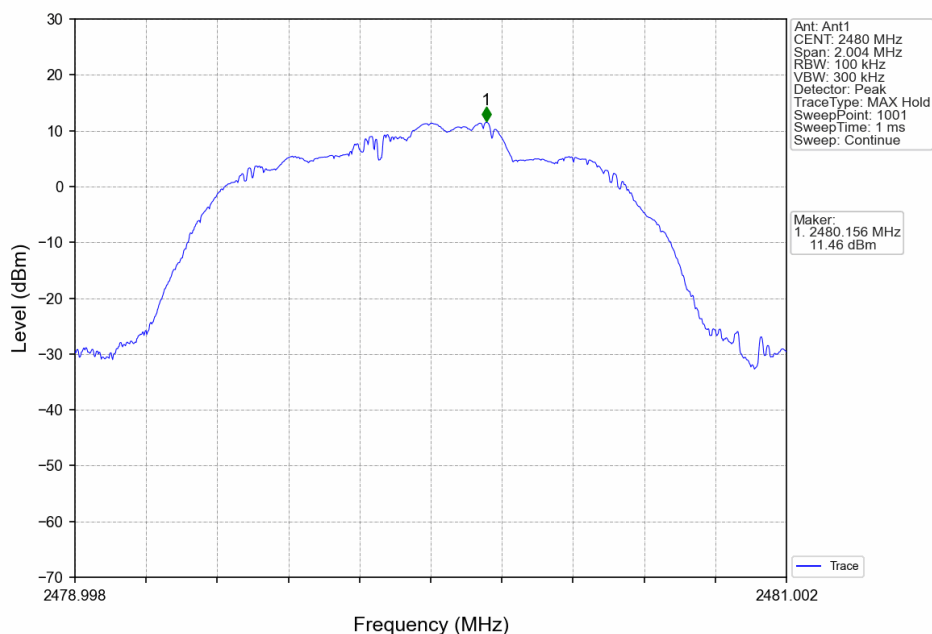
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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SZEMC-TRF-01 Rev. A/1

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### 7.2 CSE

#### 7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	11.34	-8.66	Pass
		2441	DH5	1	11.34	-8.66	Pass
		2480	DH5	1	11.34	-8.66	Pass
		HOPP	DH5	1	11.34	-8.66	Pass
					11.34	-8.66	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	11.27	-8.73	Pass
		2441	2DH5	1	11.27	-8.73	Pass
		2480	2DH5	1	11.27	-8.73	Pass
		HOPP	2DH5	1	11.27	-8.73	Pass
					11.27	-8.73	Pass
8DPSK	SISO	2402	3DH5	1	11.46	-8.54	Pass
		2441	3DH5	1	11.46	-8.54	Pass
		2480	3DH5	1	11.46	-8.54	Pass
		HOPP	3DH5	1	11.46	-8.54	Pass
					11.46	-8.54	Pass



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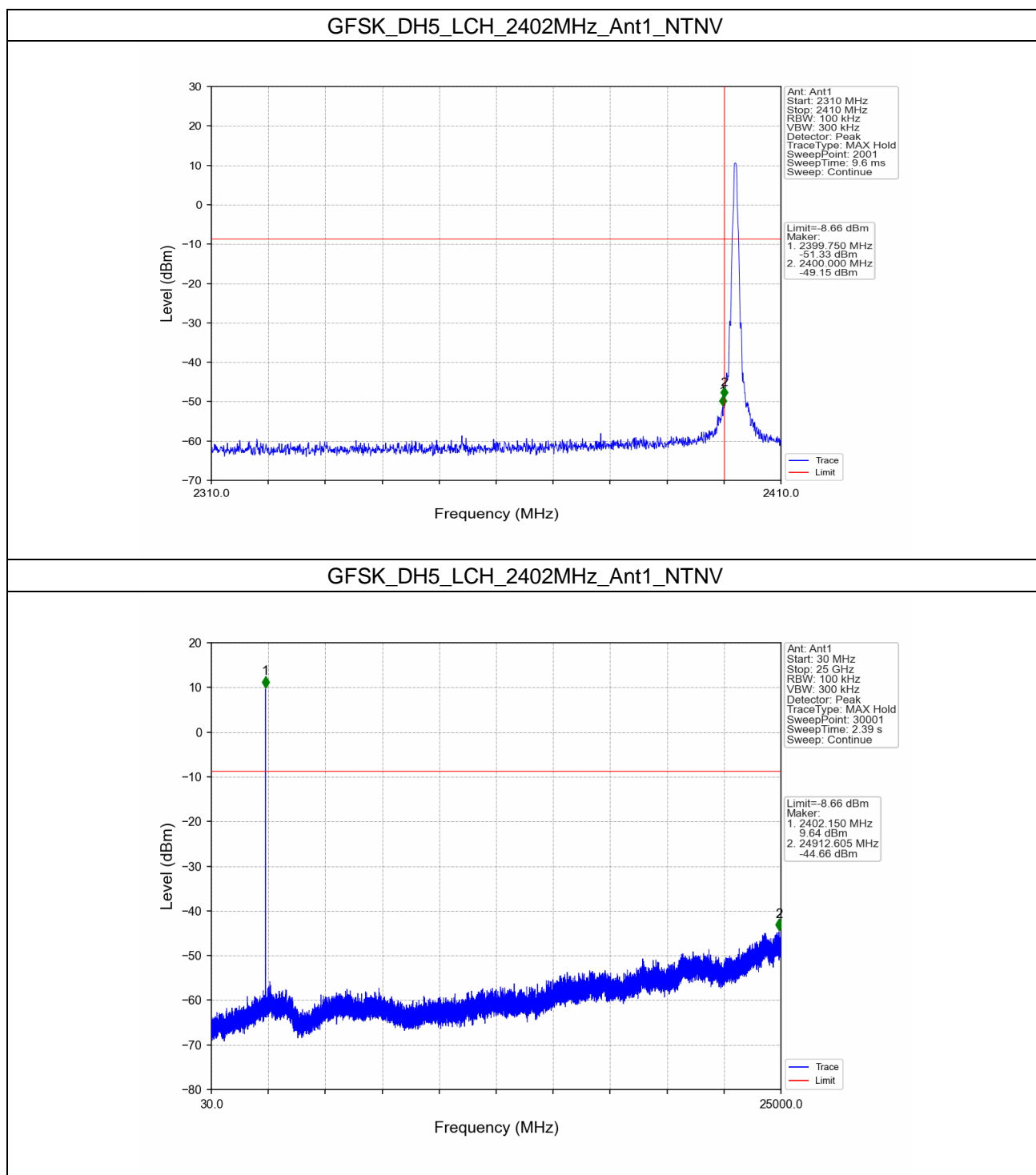
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### 7.2.2 Test Graph



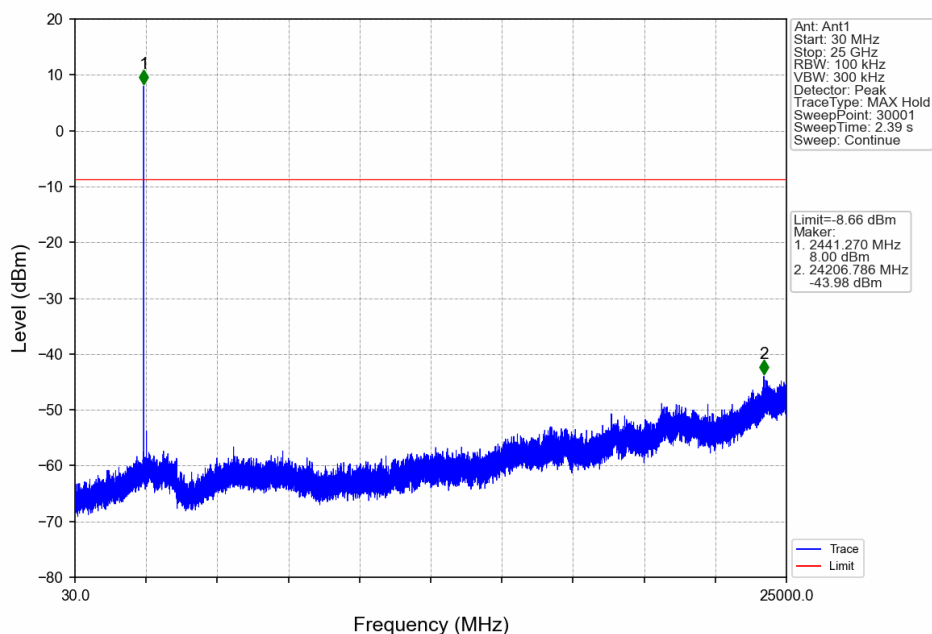
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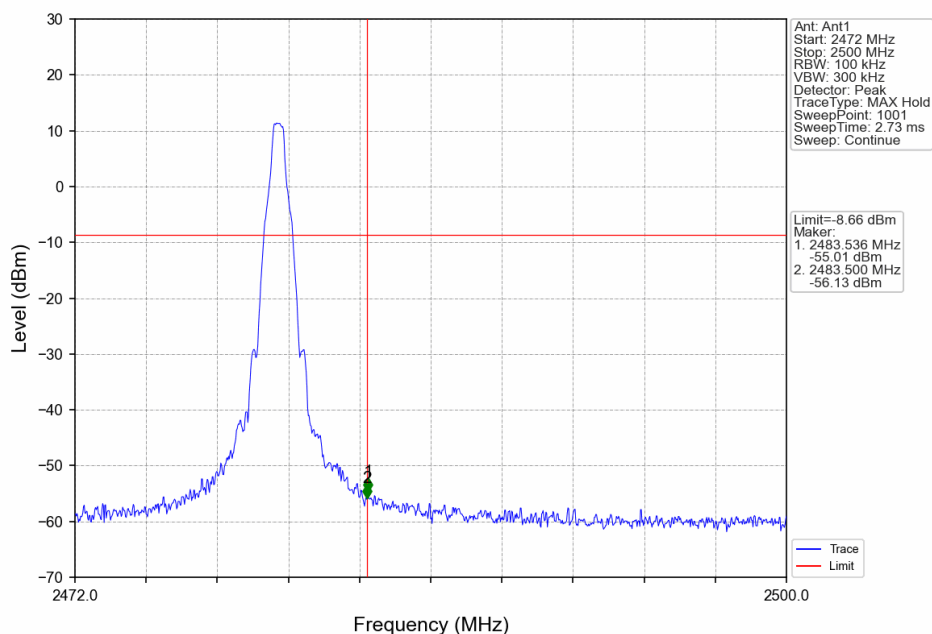
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### GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



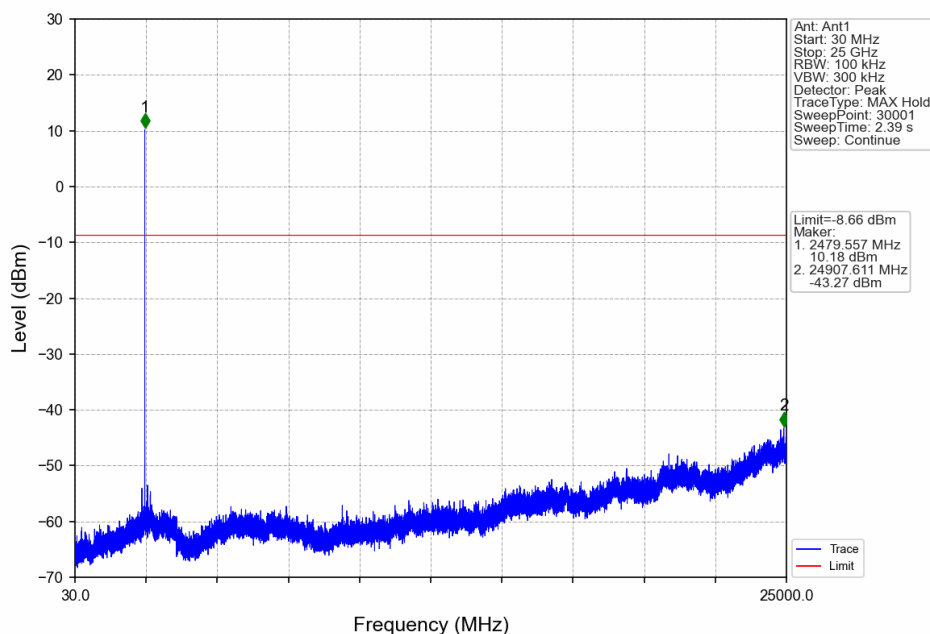
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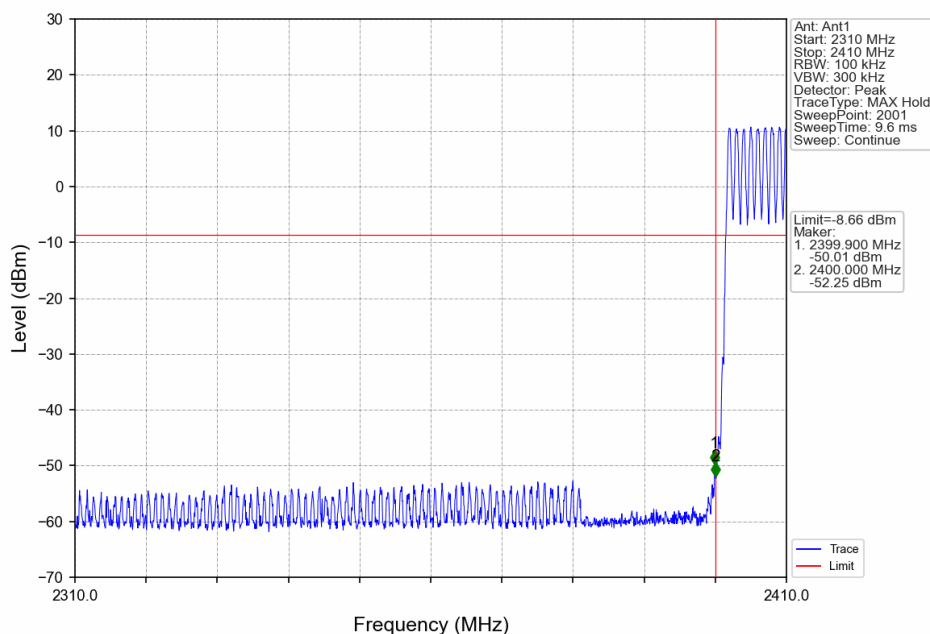
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



### GFSK\_DH5\_HOPP\_Ant1\_NTNV



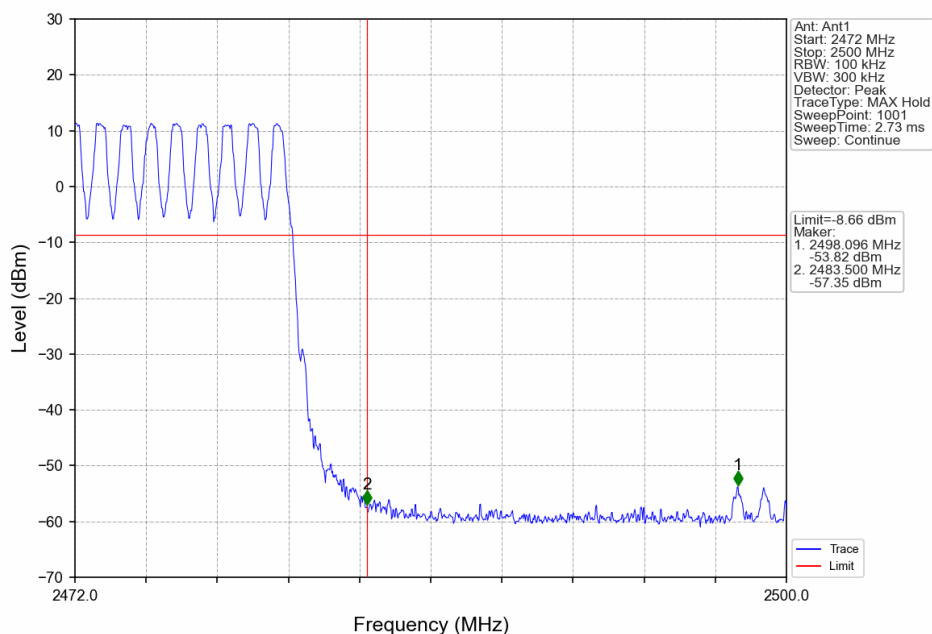
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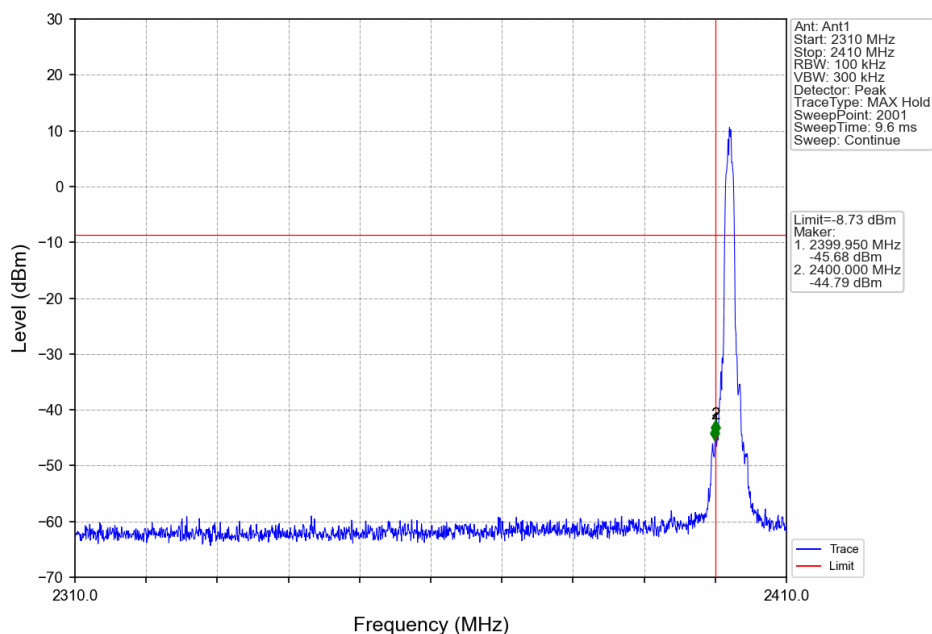
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### GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



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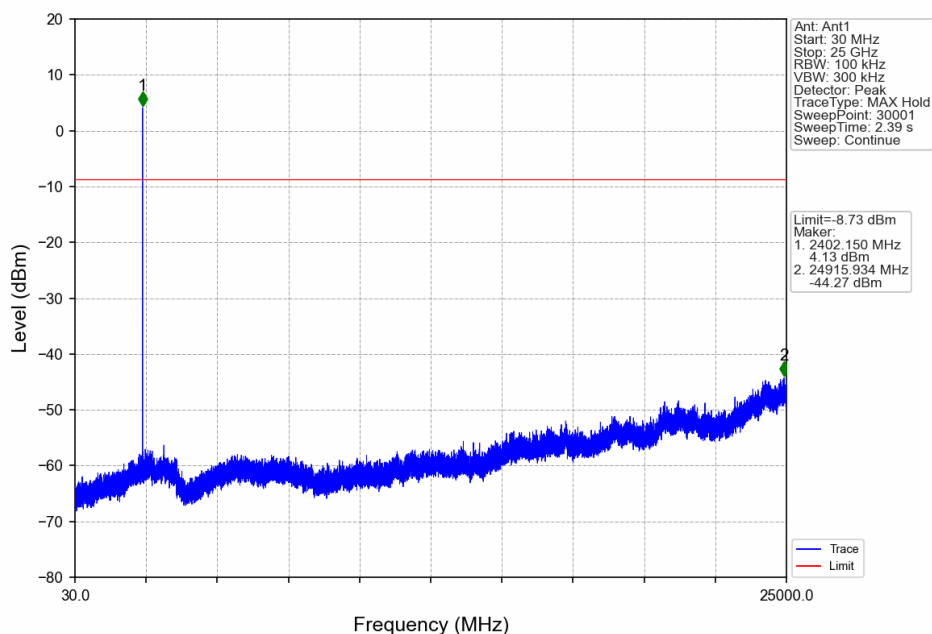
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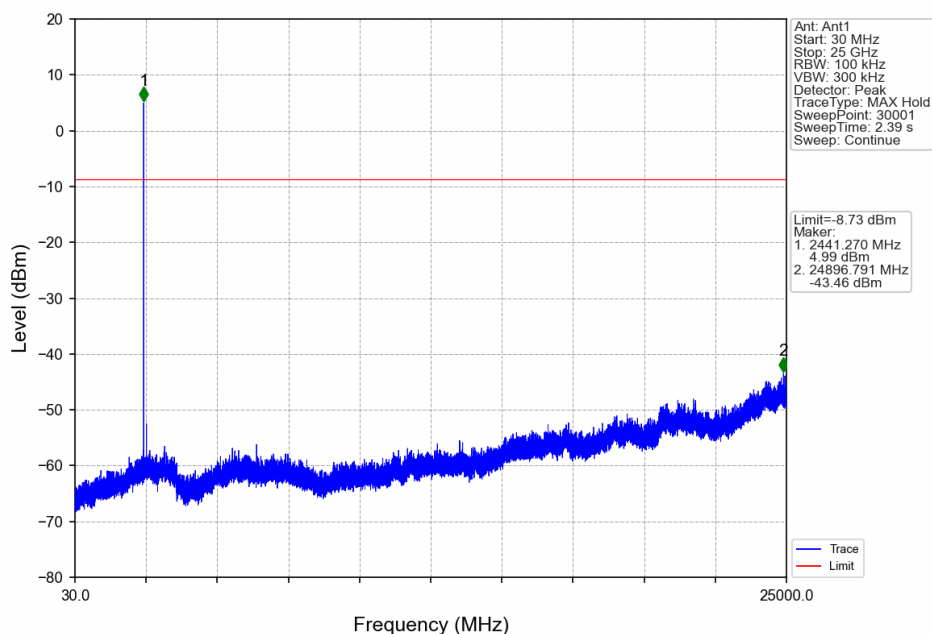
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

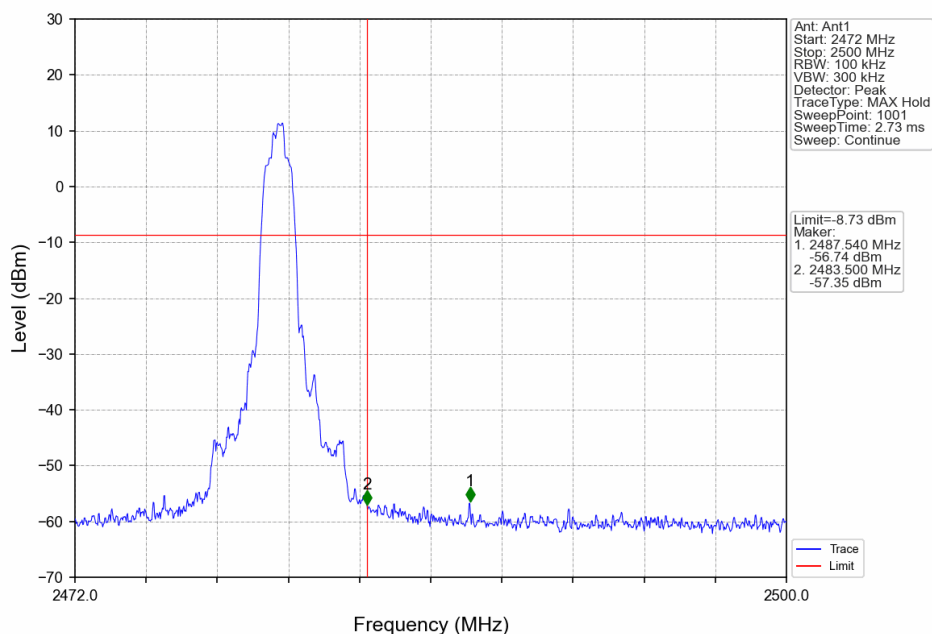


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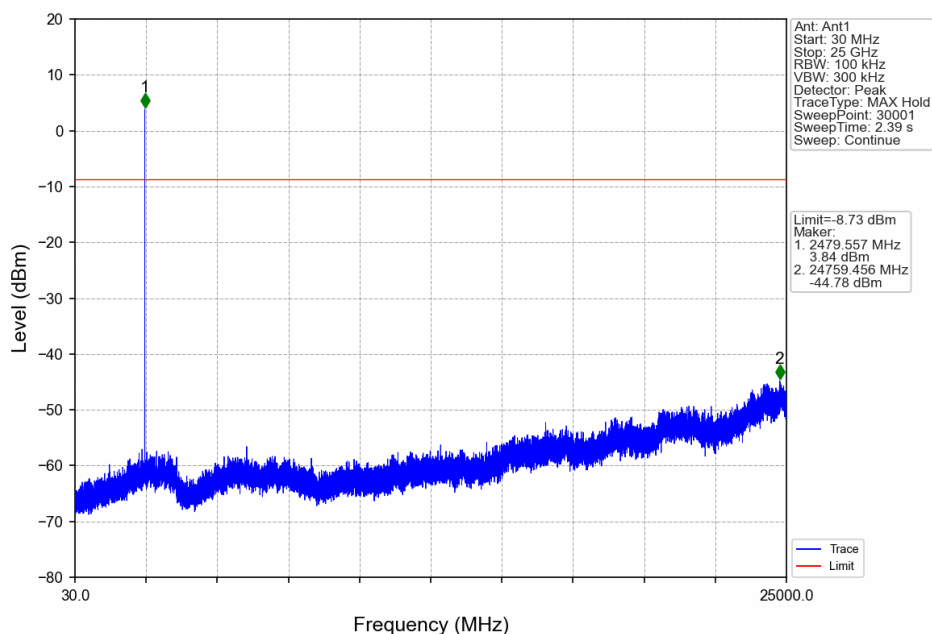




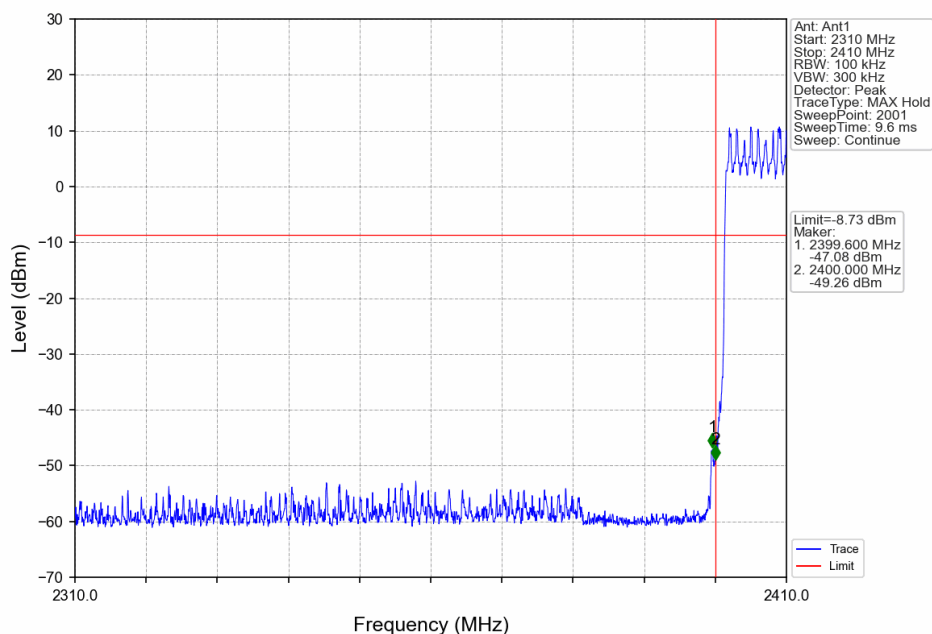
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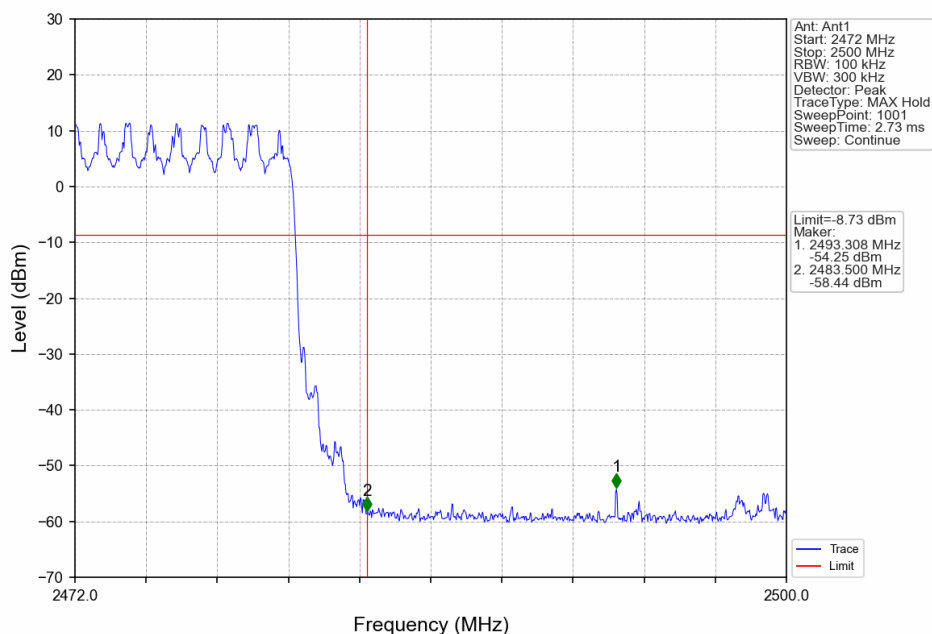
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



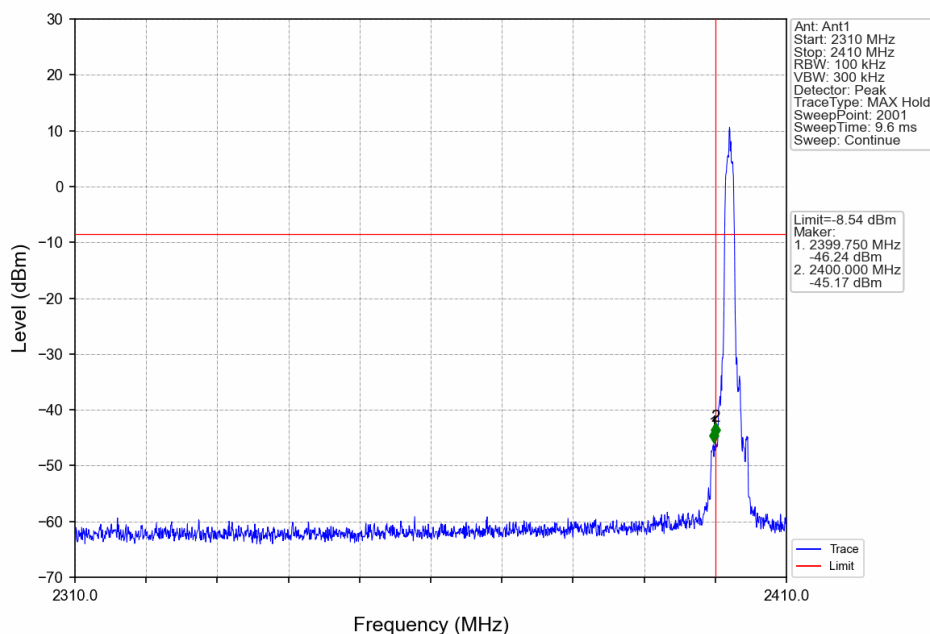
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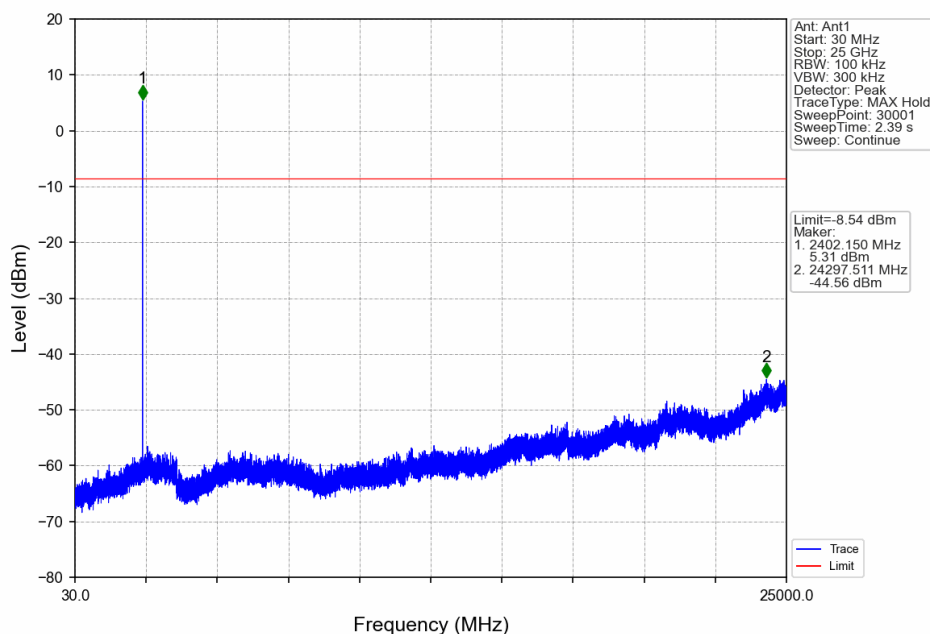
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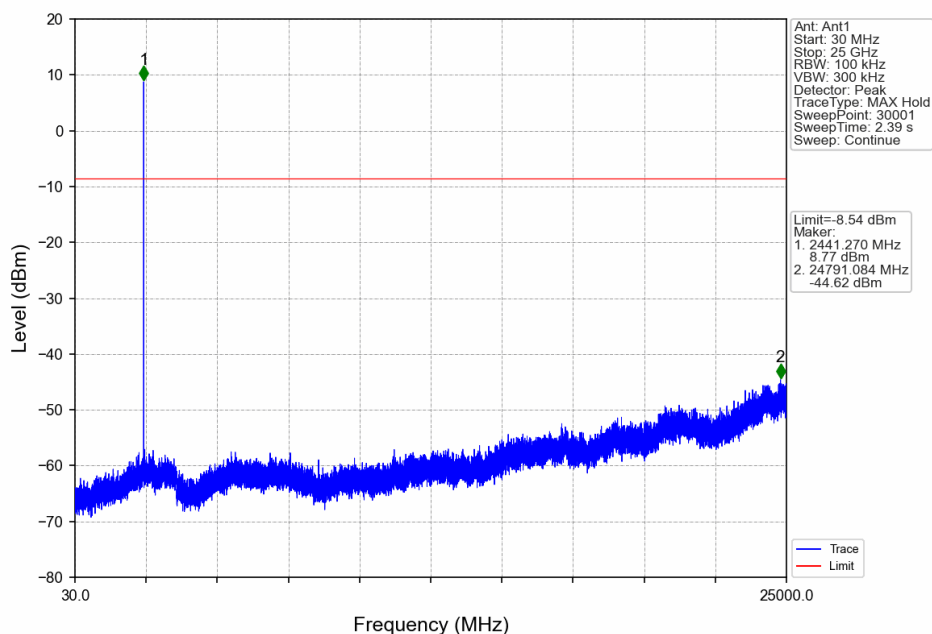
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



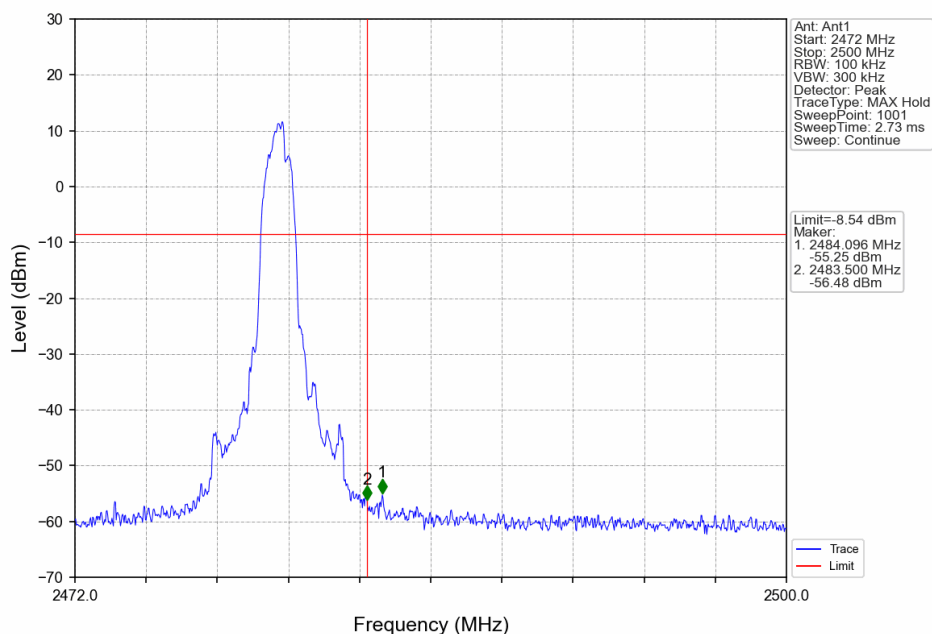
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### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV

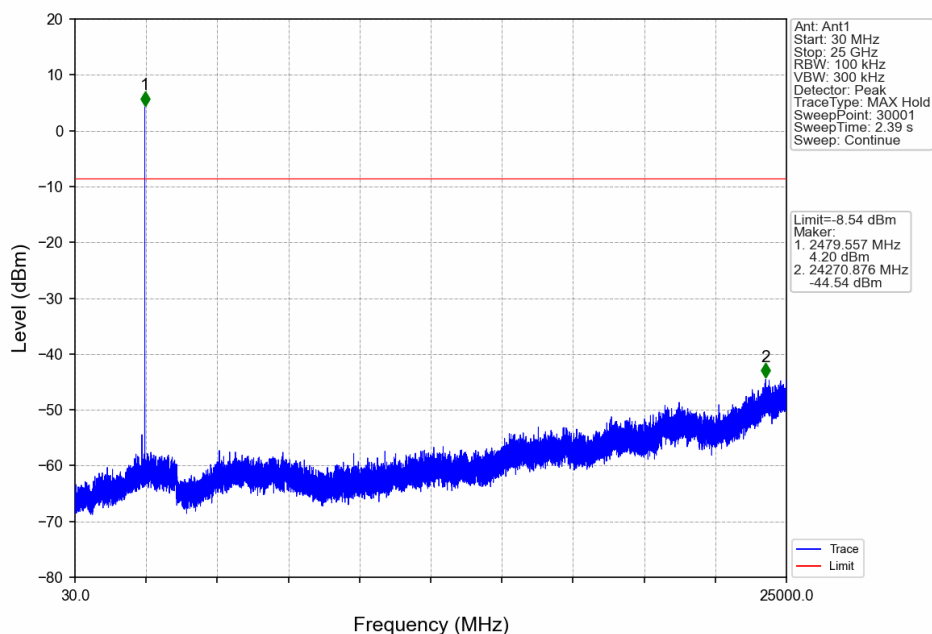


### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV

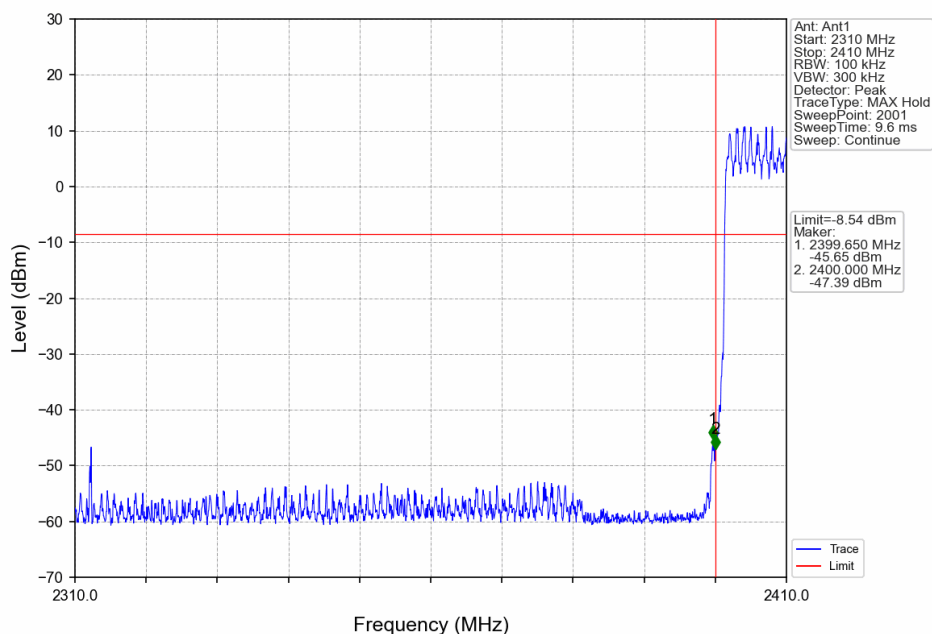




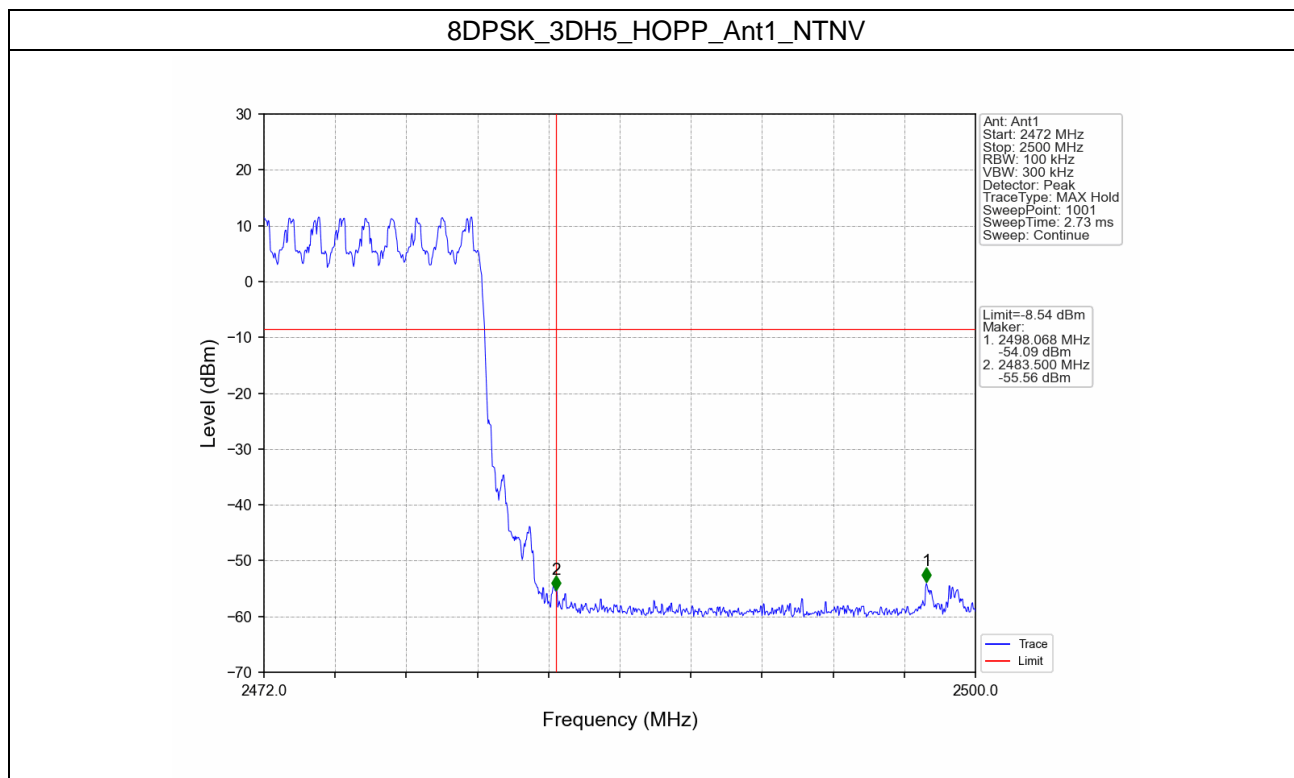
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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







- End of the Report -