

## Radiated Spurious Emissions (Above 1GHz)



## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020845AT.



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## 10 Appendix

### 1. Bandwidth

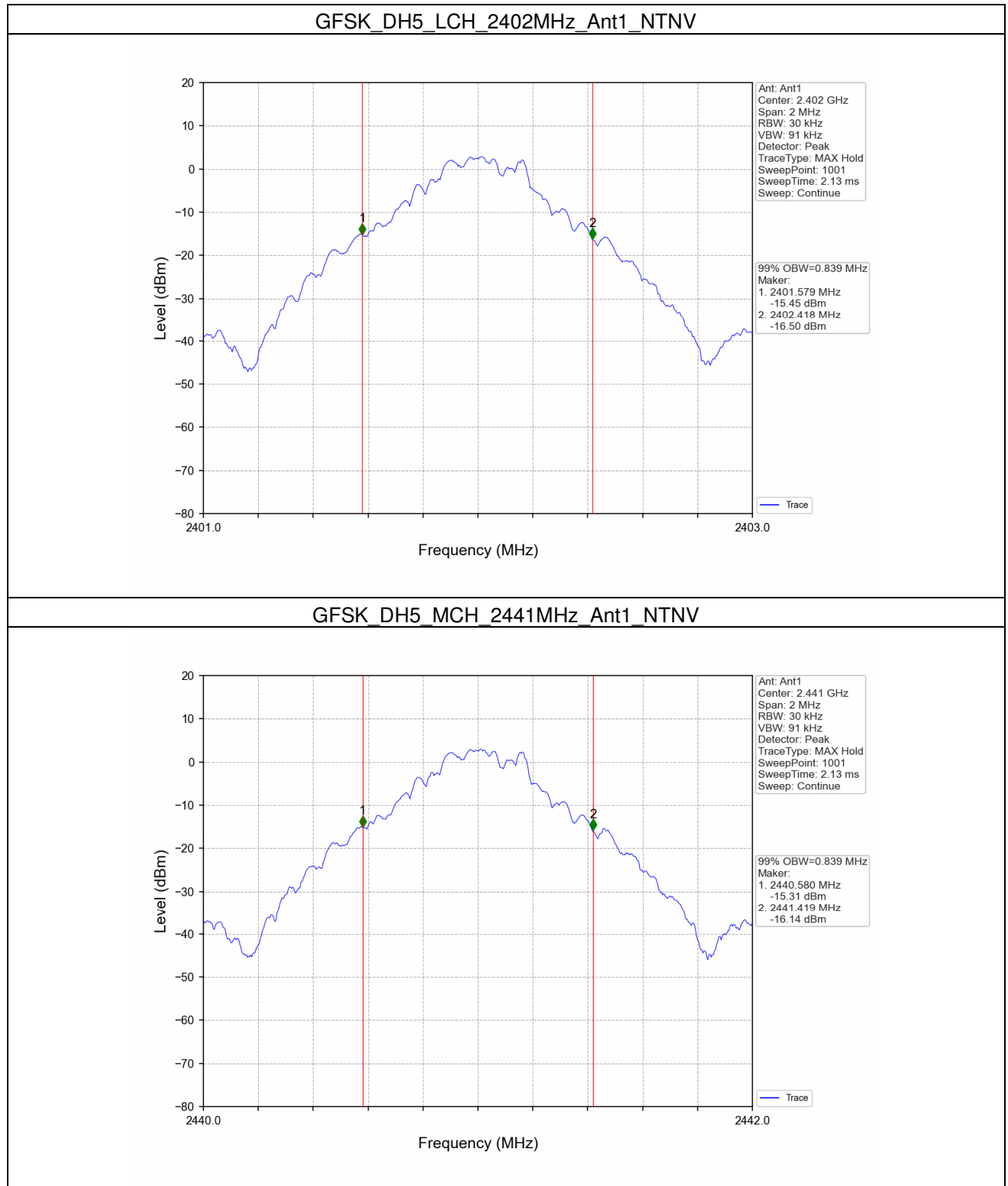
#### 1.1 OBW

##### 1.1.1 Test Result

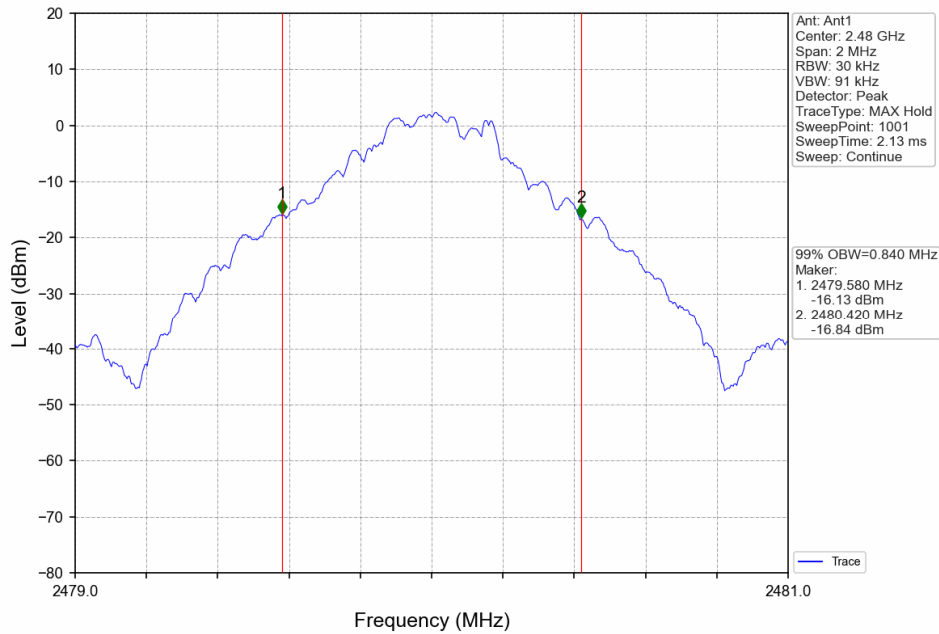
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.839	Pass
		2441	DH5	1	0.839	Pass
		2480	DH5	1	0.840	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.178	Pass
		2441	2DH5	1	1.179	Pass
		2480	2DH5	1	1.180	Pass
8DPSK	SISO	2402	3DH5	1	1.181	Pass
		2441	3DH5	1	1.181	Pass
		2480	3DH5	1	1.182	Pass



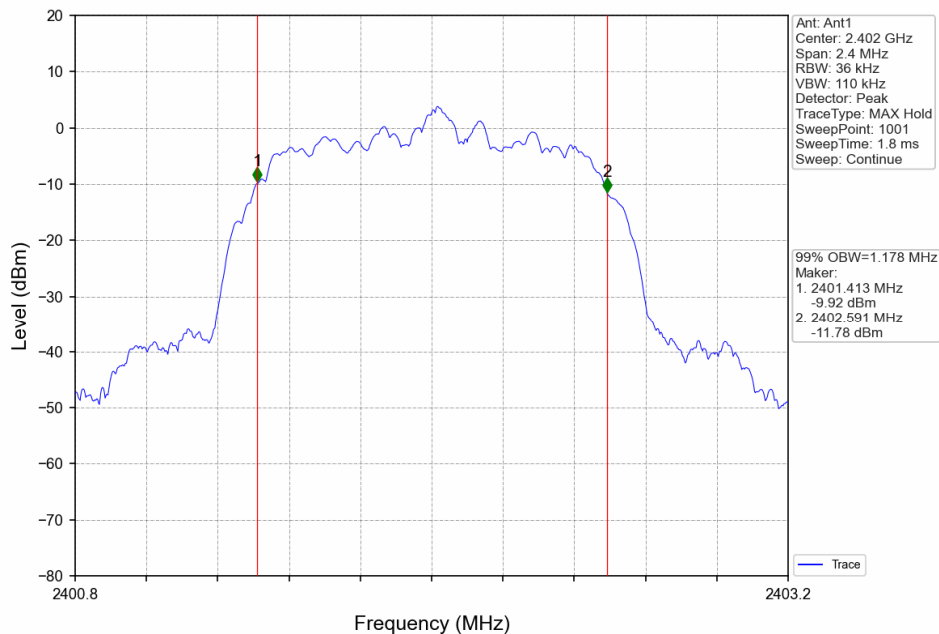
### 1.1.2 Test Graph



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

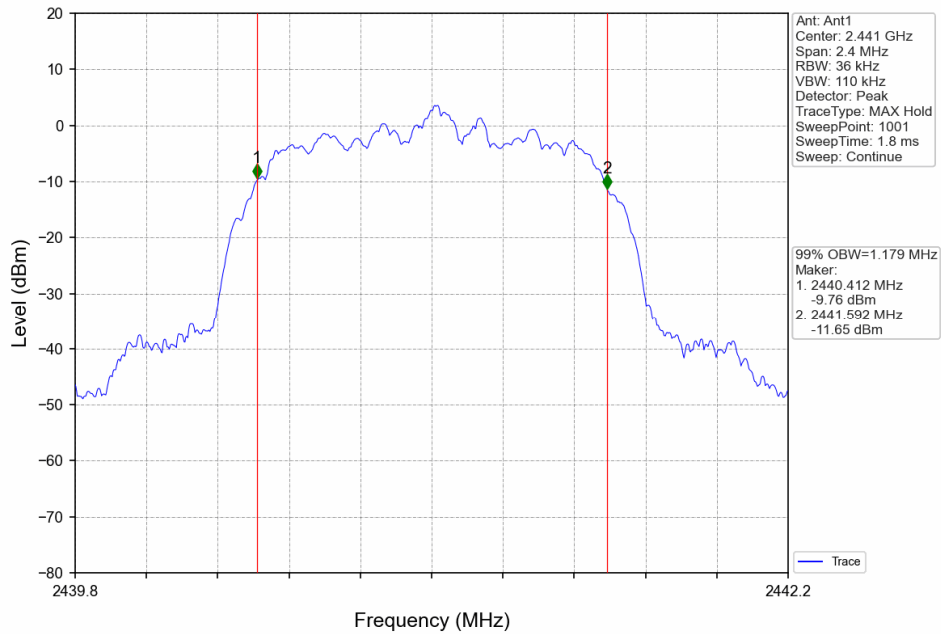


### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

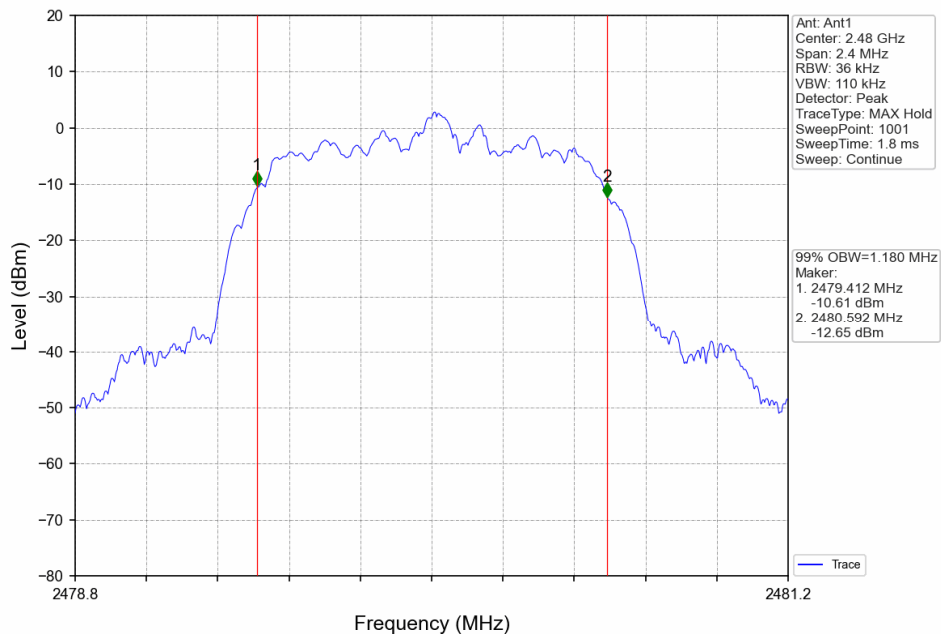




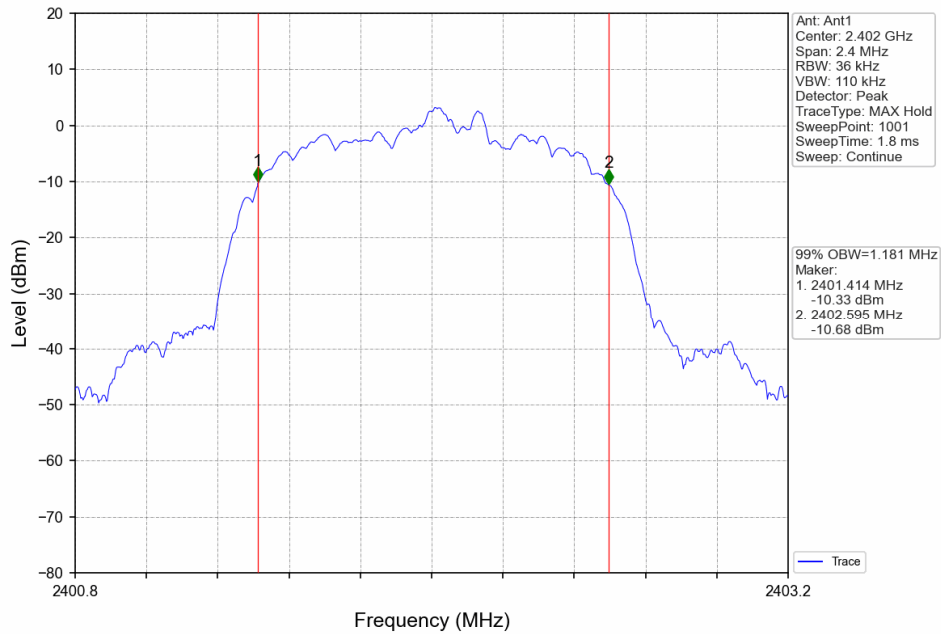
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



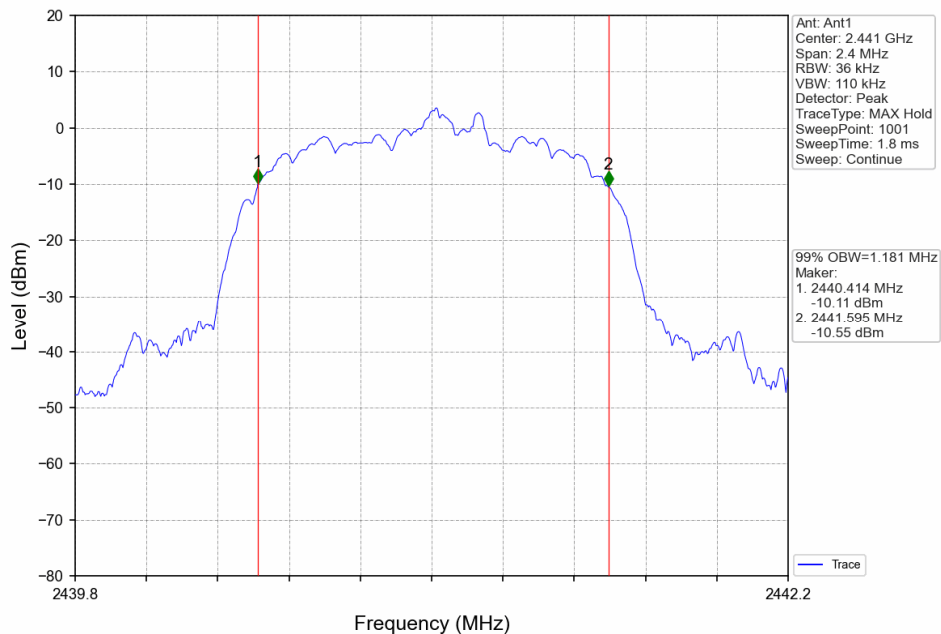
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



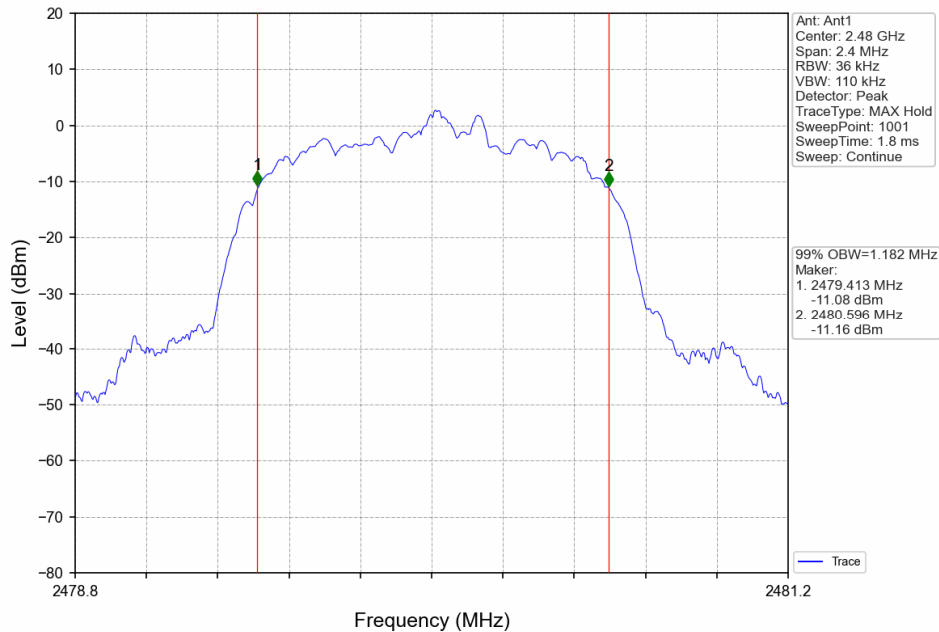
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



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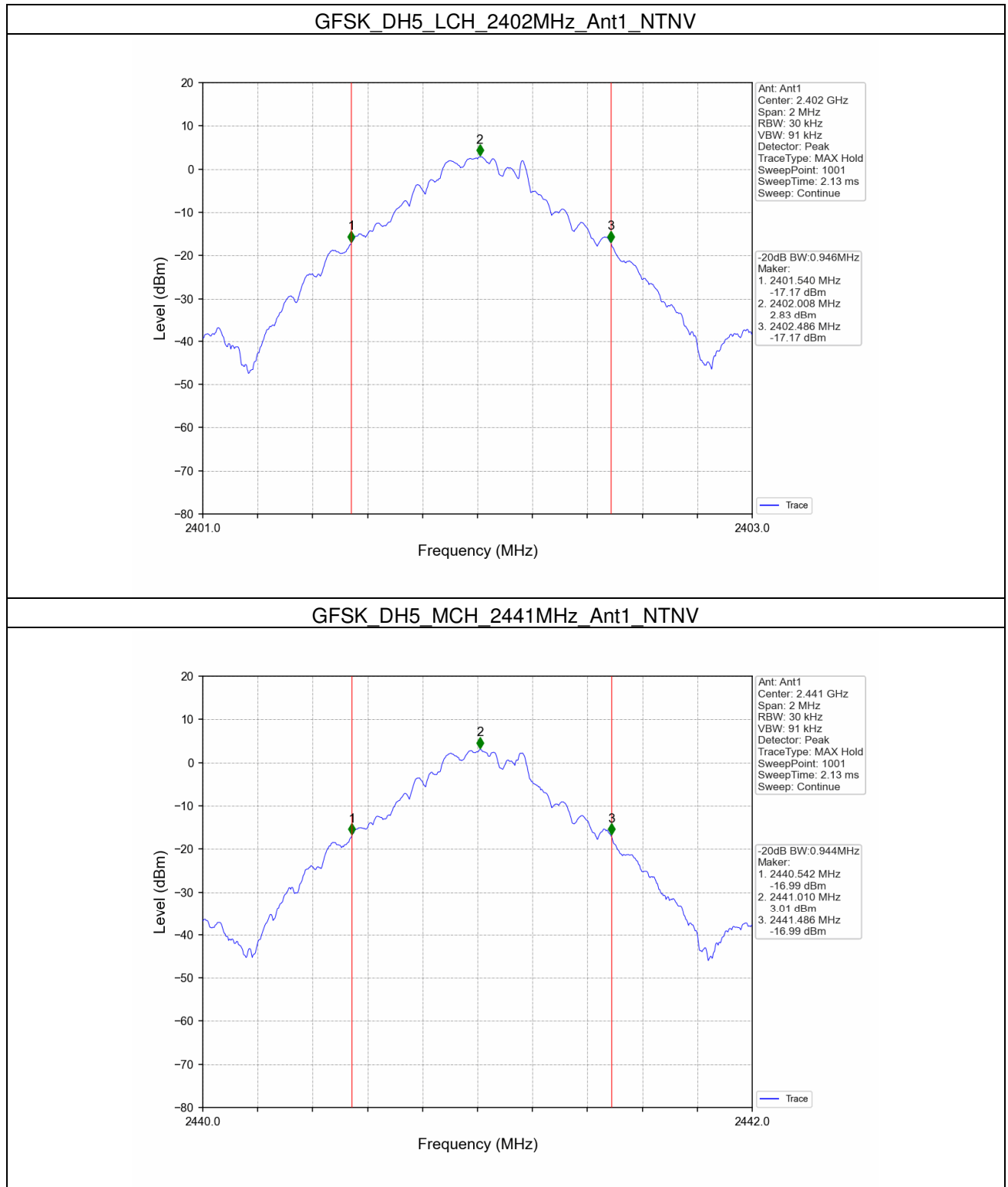
## 1.2 20dB BW

### 1.2.1 Test Result

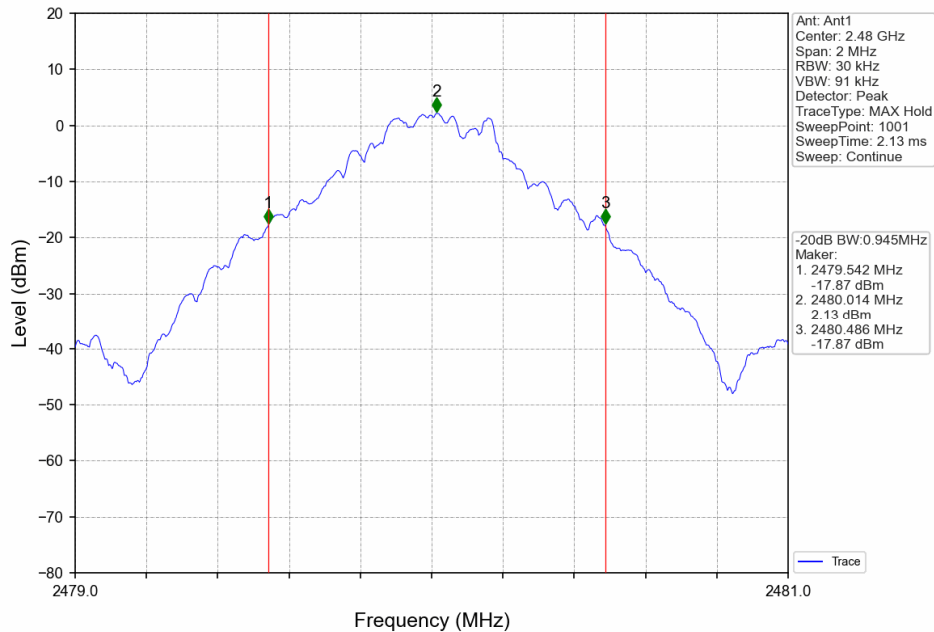
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.946	Pass
		2441	DH5	1	0.944	Pass
		2480	DH5	1	0.945	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.294	Pass
		2441	2DH5	1	1.291	Pass
		2480	2DH5	1	1.291	Pass
8DPSK	SISO	2402	3DH5	1	1.310	Pass
		2441	3DH5	1	1.310	Pass
		2480	3DH5	1	1.307	Pass



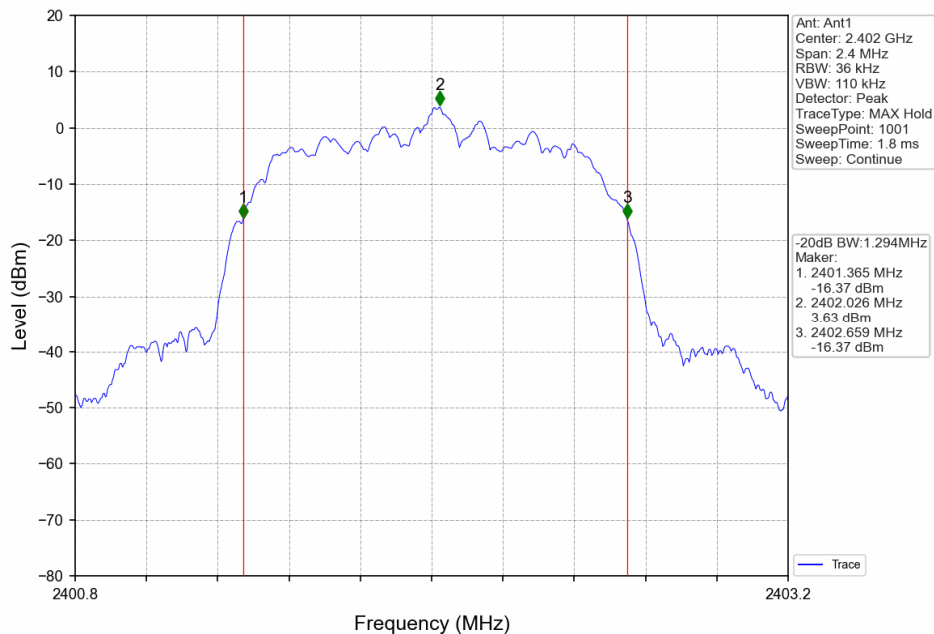
## 1.2.2 Test Graph



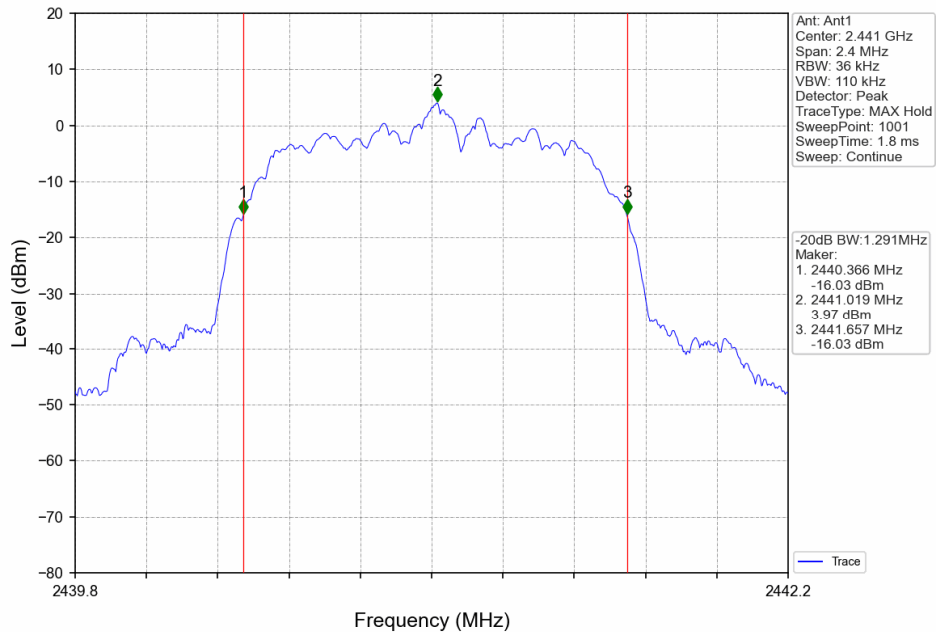
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



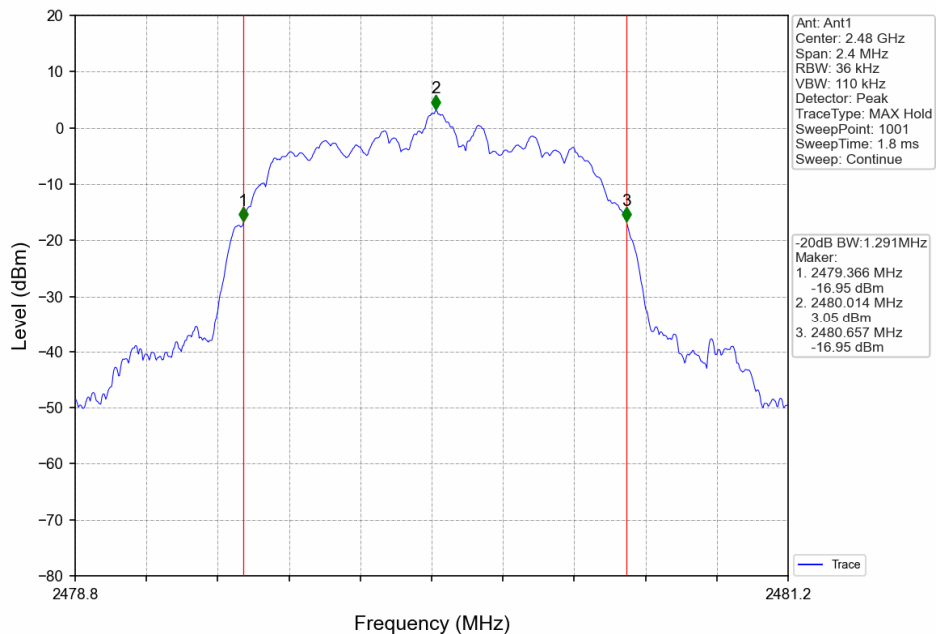
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



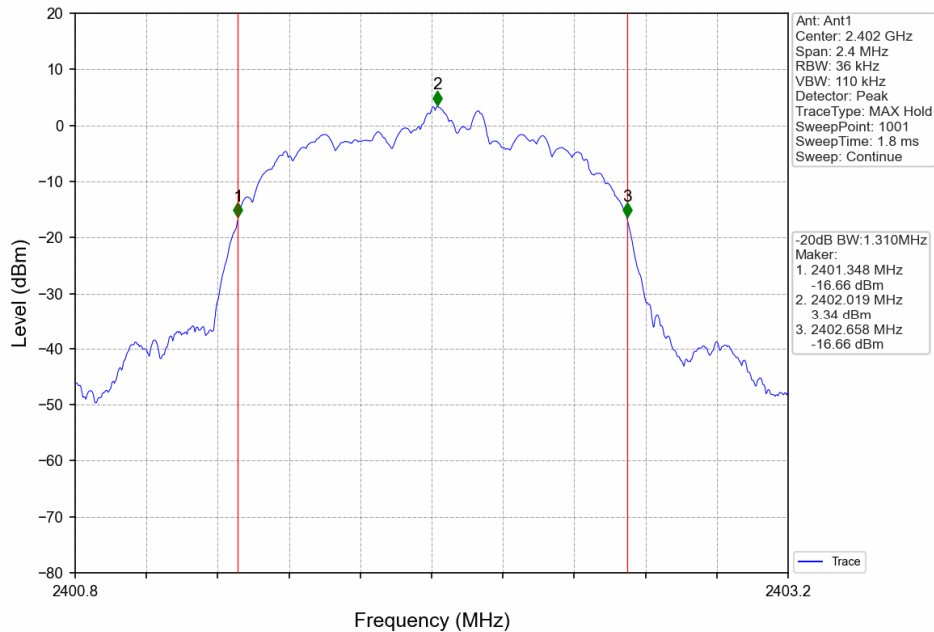
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



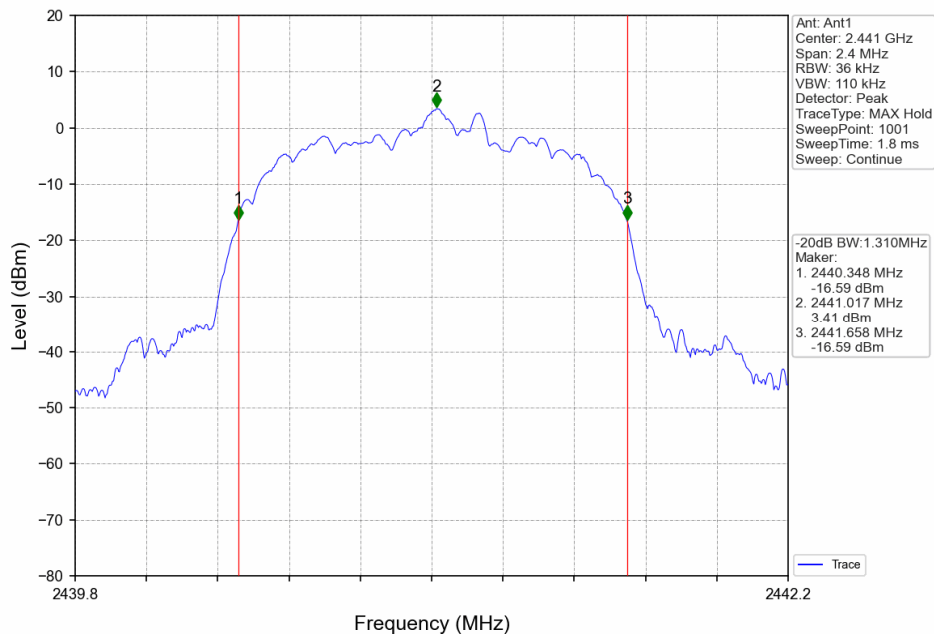
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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

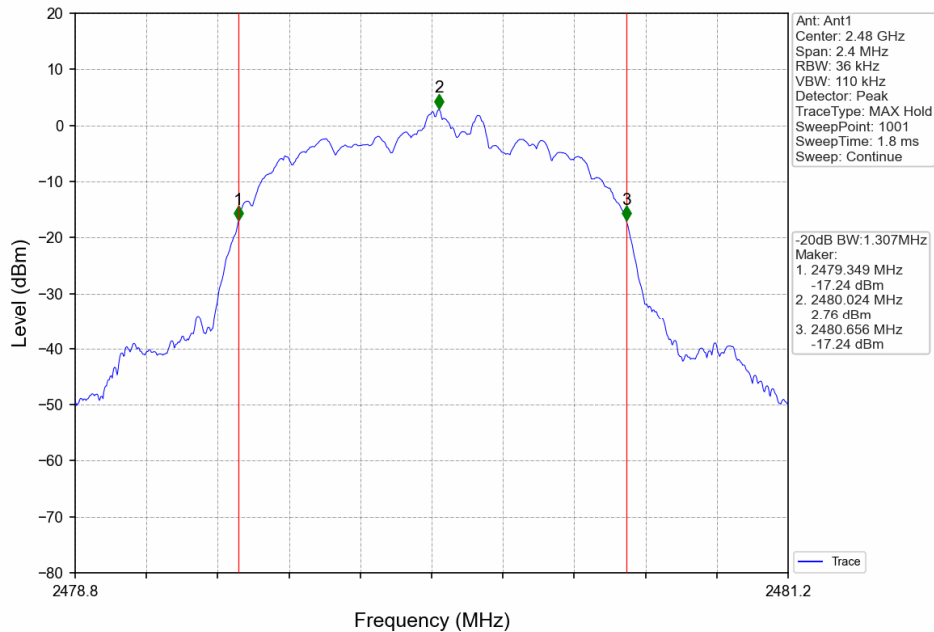


## 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV





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



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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	5.41	<=30	Pass
		2441	DH5	5.69	<=30	Pass
		2480	DH5	4.86	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	7.76	<=20.97	Pass
		2441	2DH5	7.91	<=20.97	Pass
		2480	2DH5	7.11	<=20.97	Pass
8DPSK	SISO	2402	3DH5	7.95	<=20.97	Pass
		2441	3DH5	8.02	<=20.97	Pass
		2480	3DH5	7.20	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.71dBi;

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

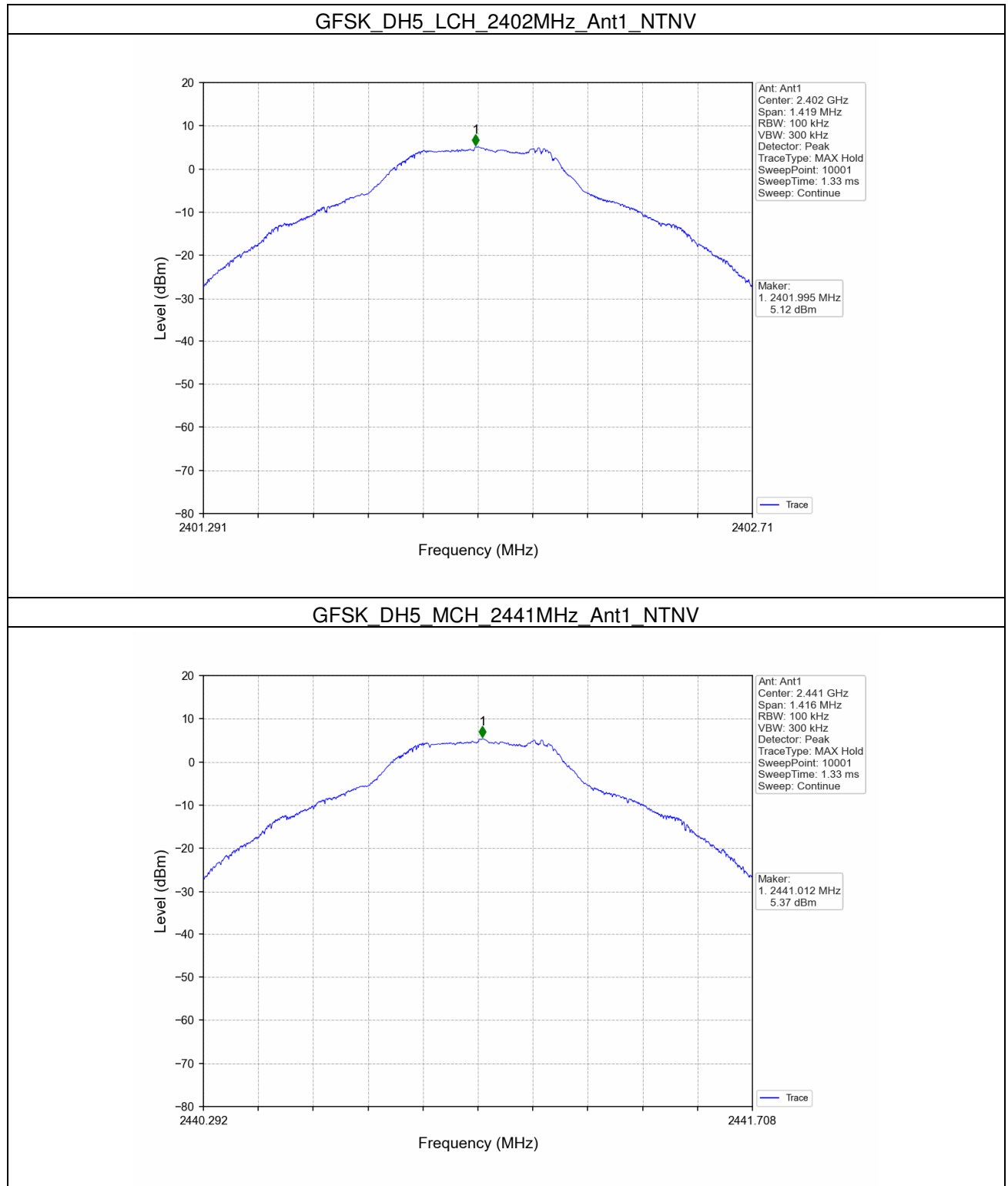
#### 3.1 Ref

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	5.12
		2441	DH5	1	5.37
		2480	DH5	1	4.29
Pi/4DQPSK	SISO	2402	2DH5	1	5.12
		2441	2DH5	1	5.26
		2480	2DH5	1	4.19
8DPSK	SISO	2402	3DH5	1	4.93
		2441	3DH5	1	5.12
		2480	3DH5	1	4.39

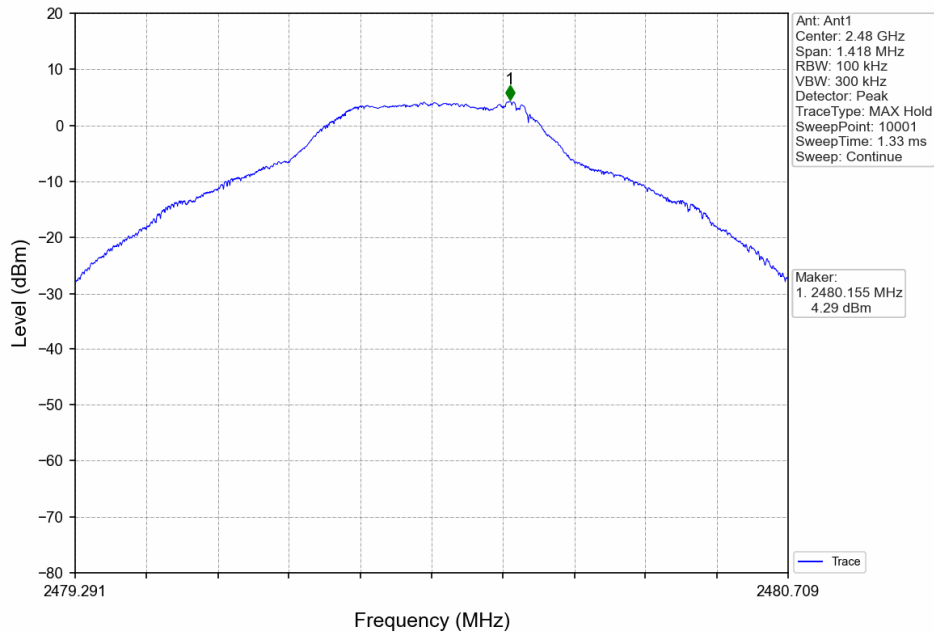
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

### 3.1.2 Test Graph

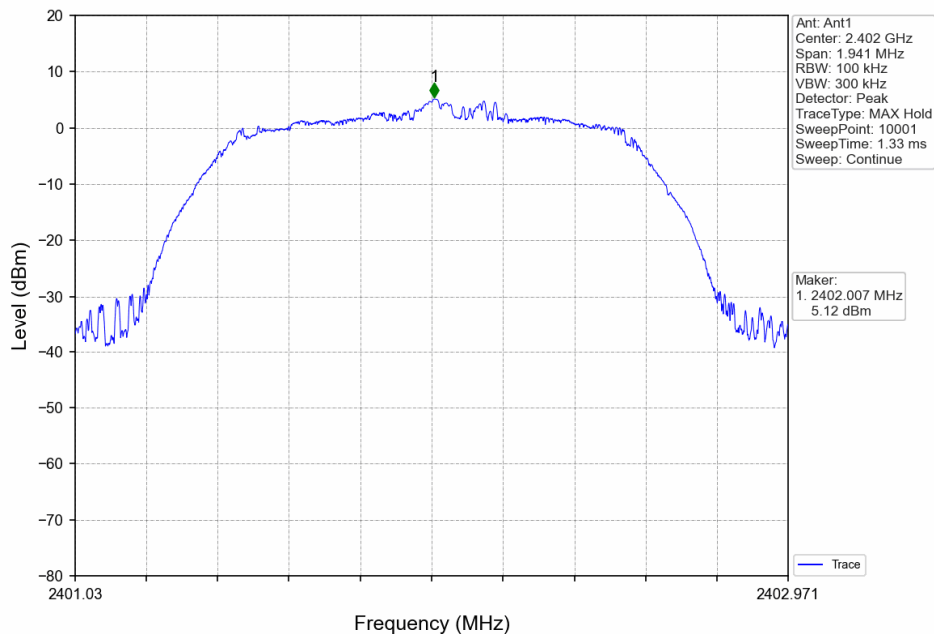




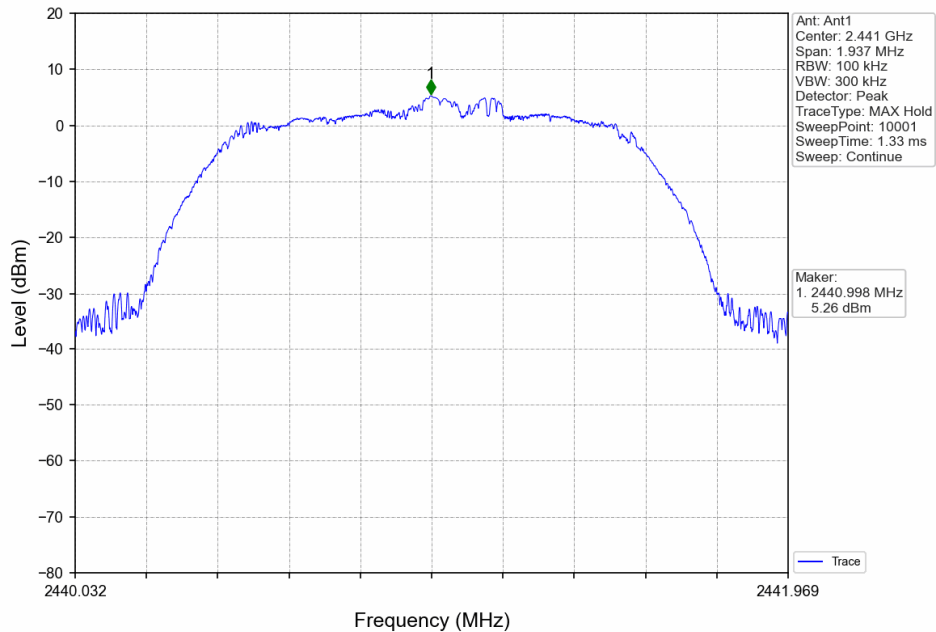
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



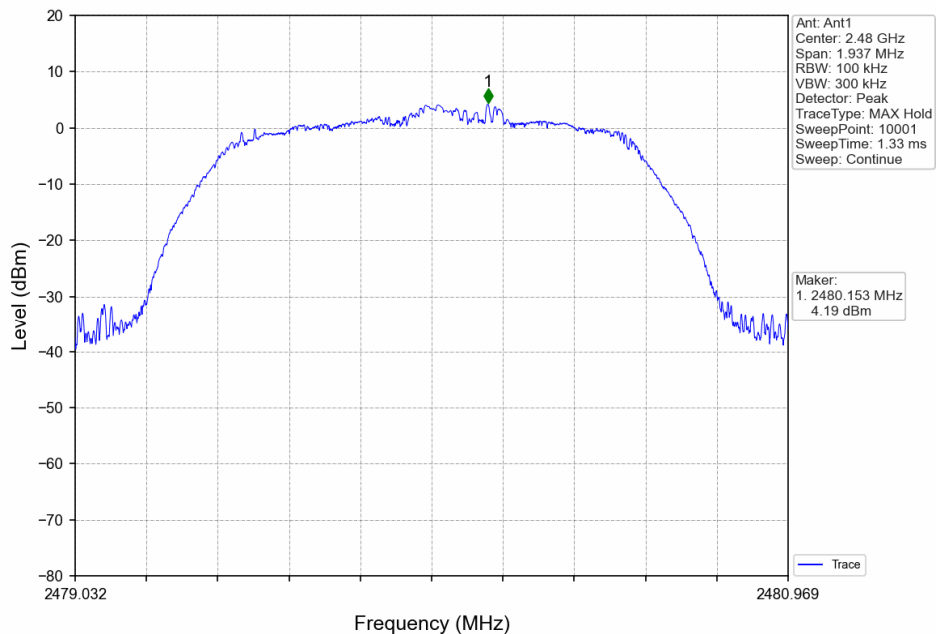
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



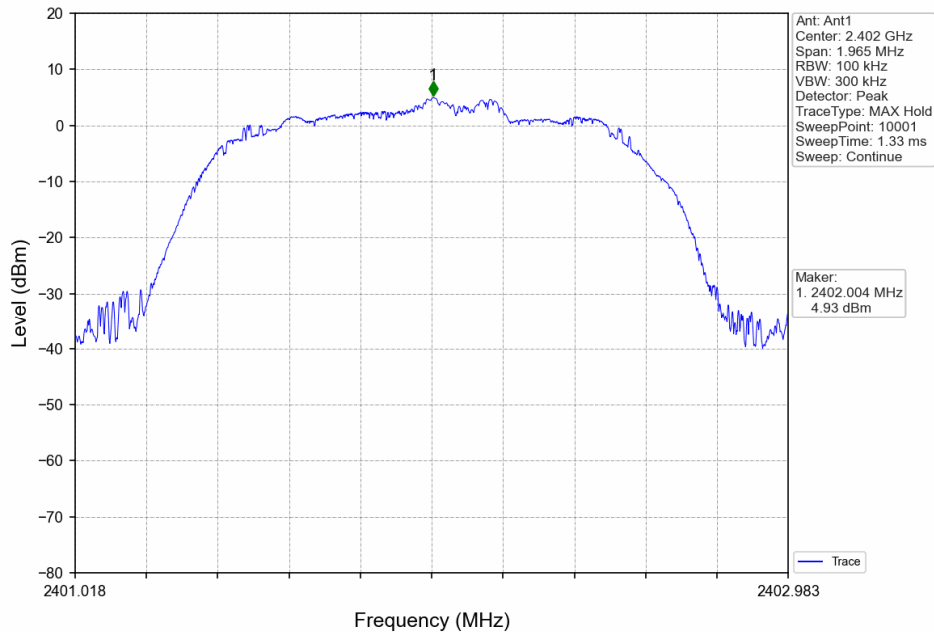
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



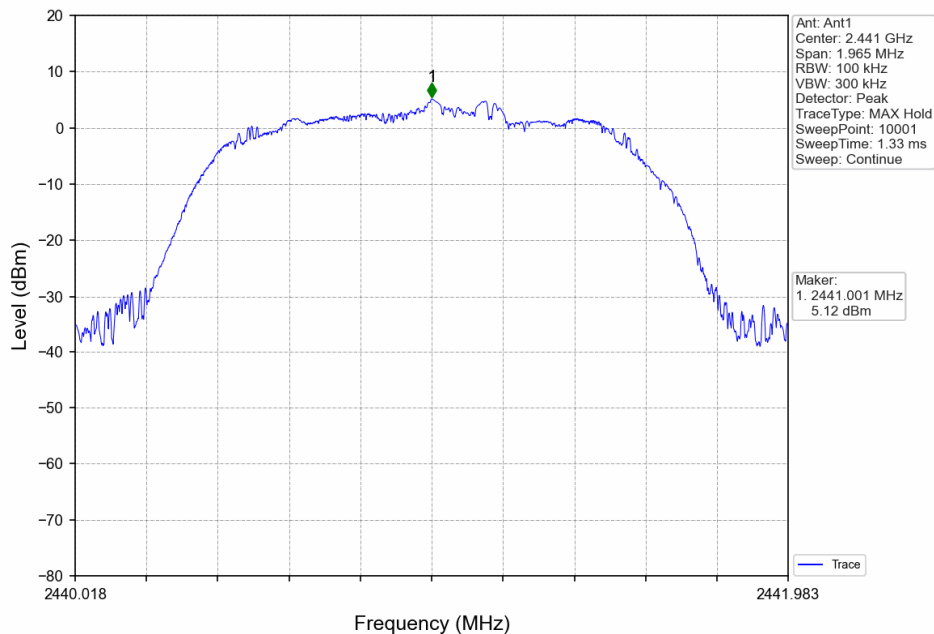
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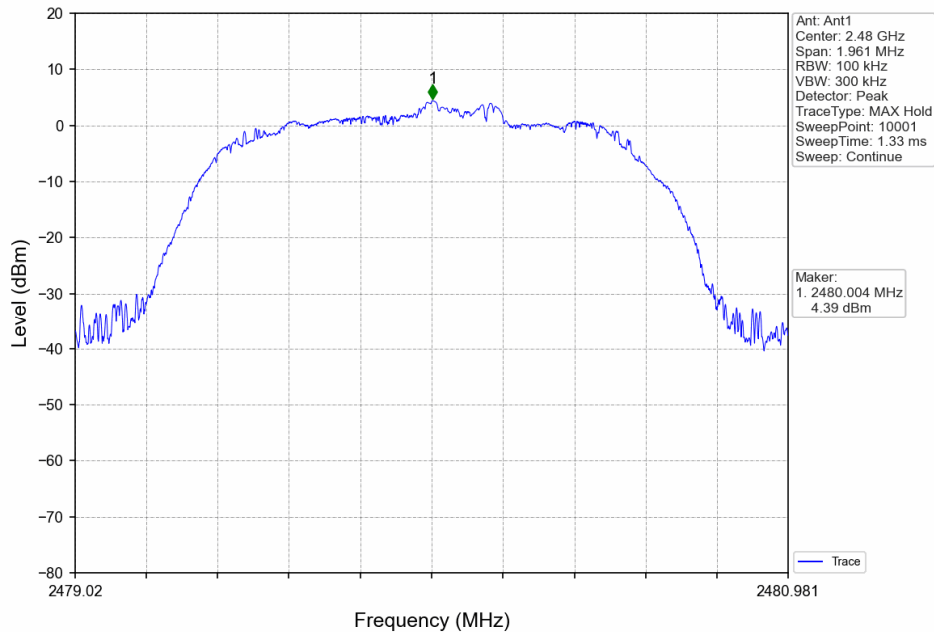
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



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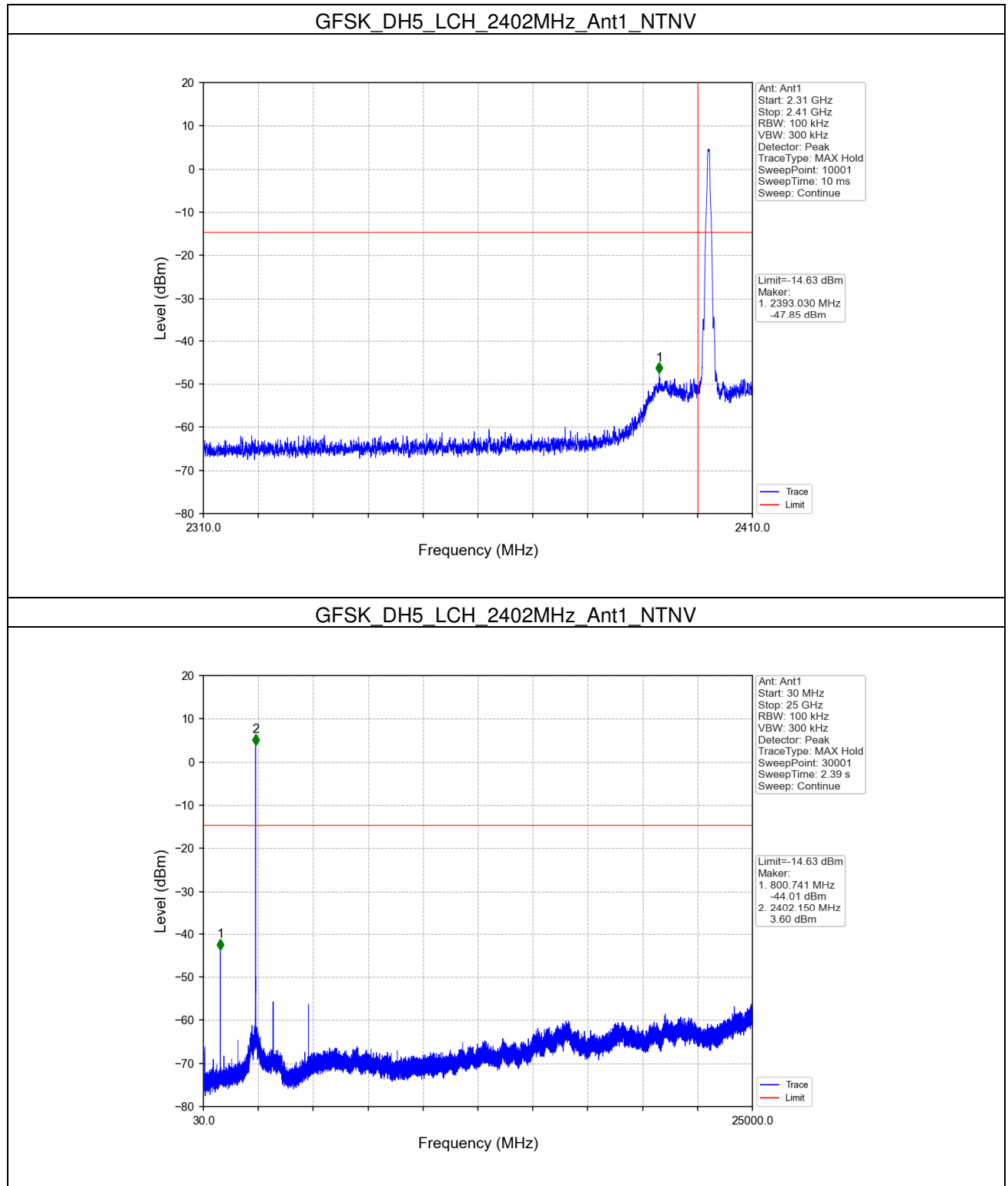
### 3.2 CSE

#### 3.2.1 Test Result

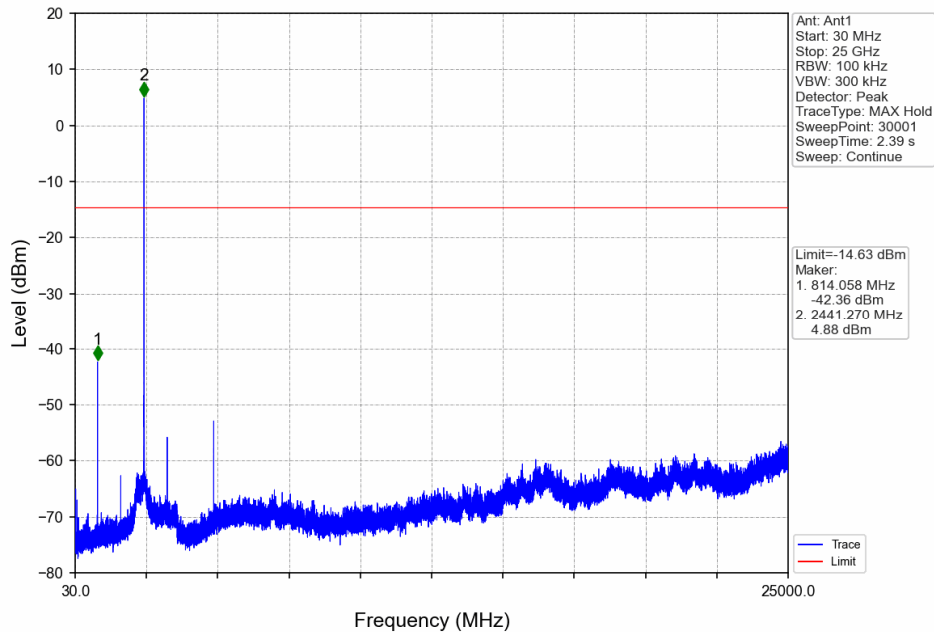
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	5.37	-14.63	Pass
		2441	DH5	1	5.37	-14.63	Pass
		2480	DH5	1	5.37	-14.63	Pass
		HOPP	DH5	1	5.37	-14.63	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.26	-14.74	Pass
		2441	2DH5	1	5.26	-14.74	Pass
		2480	2DH5	1	5.26	-14.74	Pass
		HOPP	2DH5	1	5.26	-14.74	Pass
8DPSK	SISO	2402	3DH5	1	5.12	-14.88	Pass
		2441	3DH5	1	5.12	-14.88	Pass
		2480	3DH5	1	5.12	-14.88	Pass
		HOPP	3DH5	1	5.12	-14.88	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.

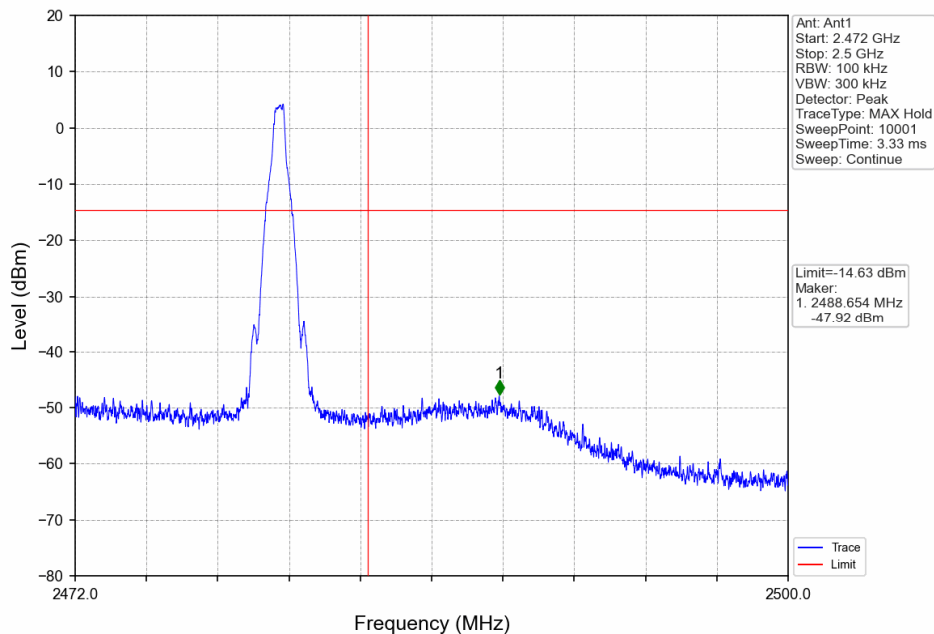
### 3.2.2 Test Graph



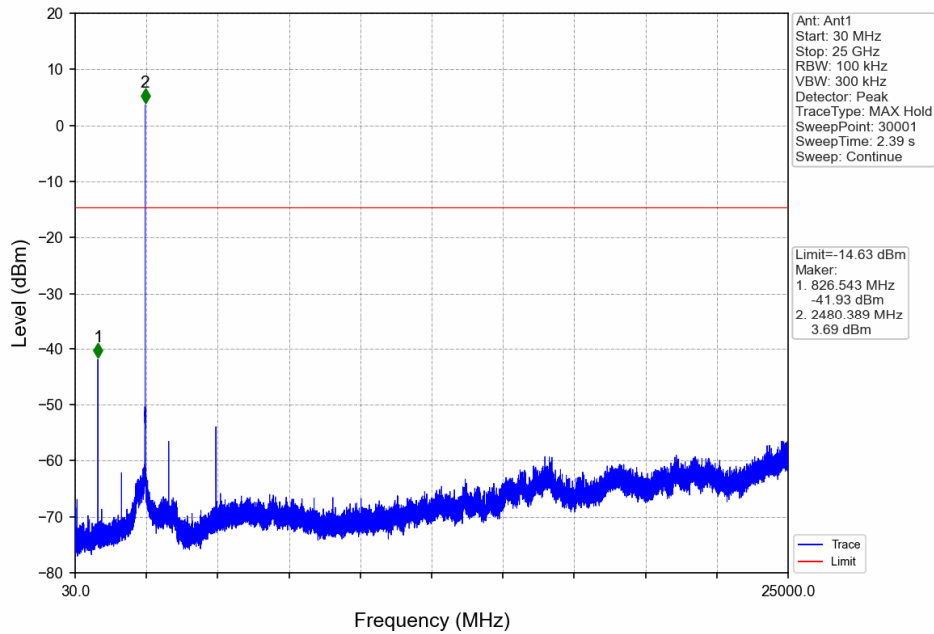
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



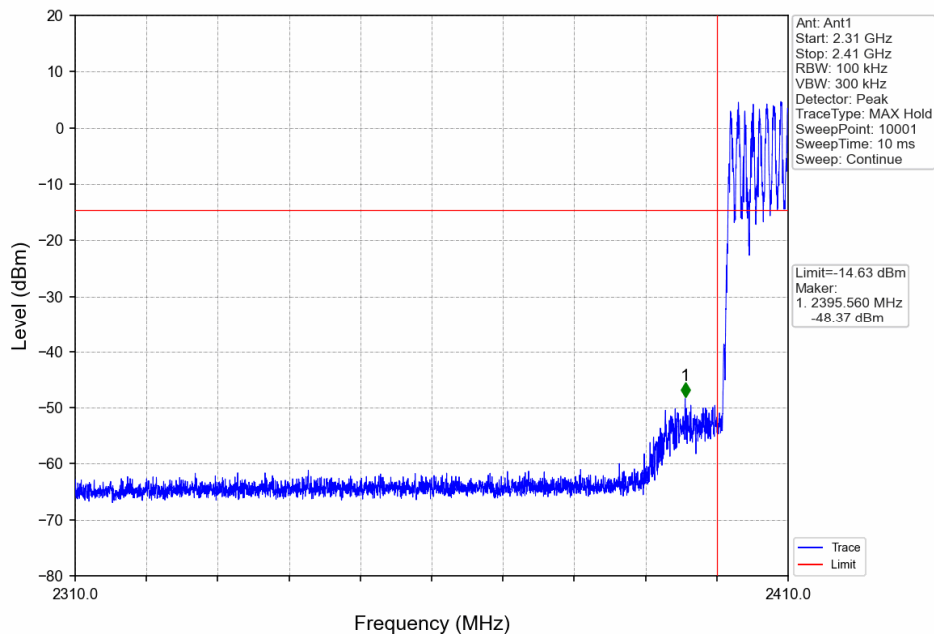
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



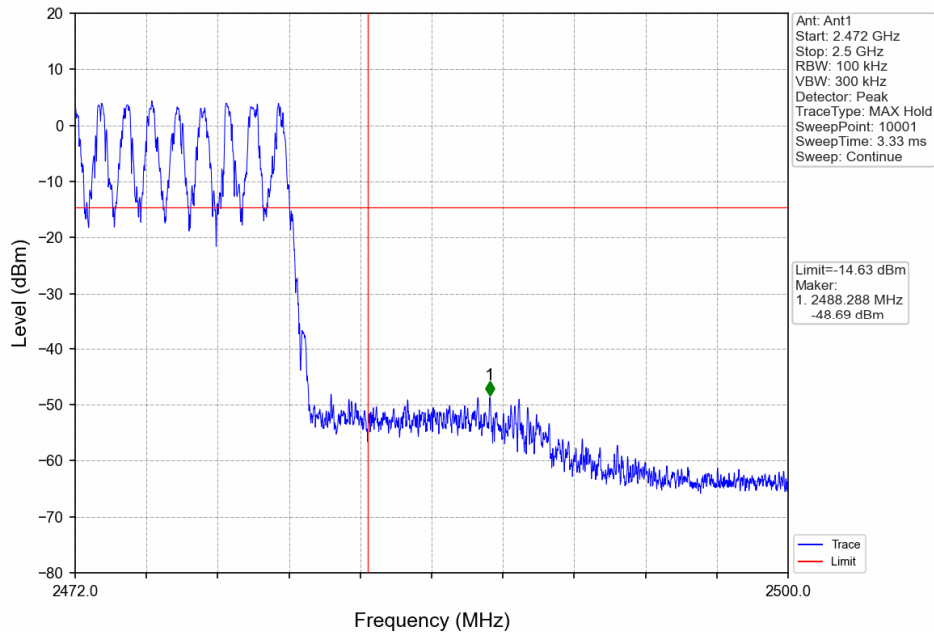
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



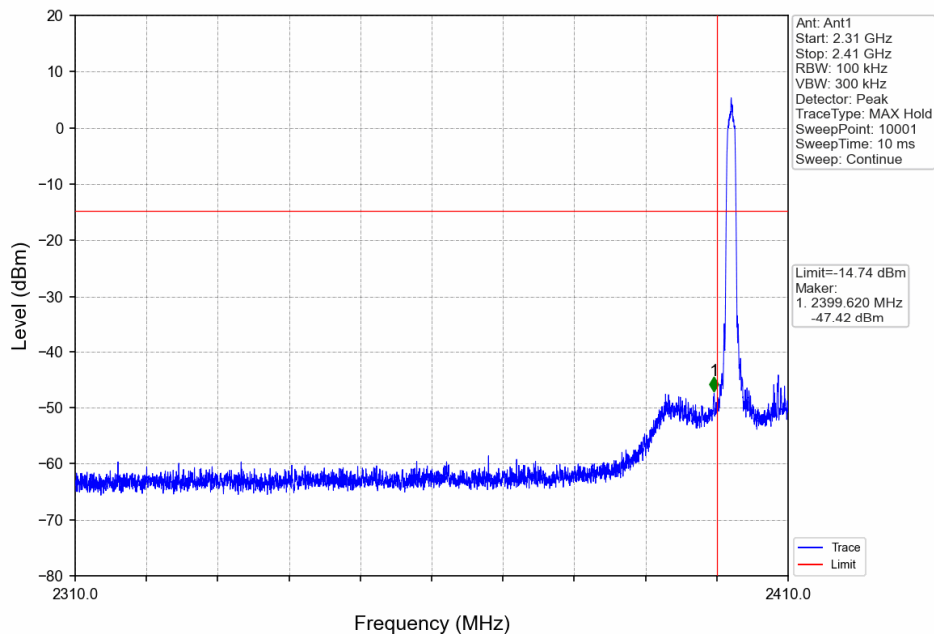
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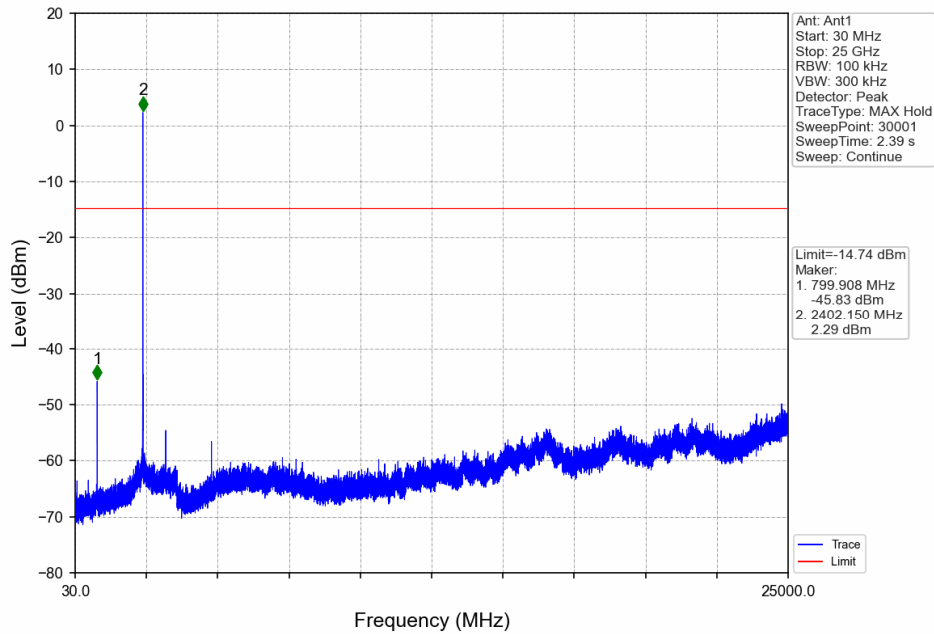
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



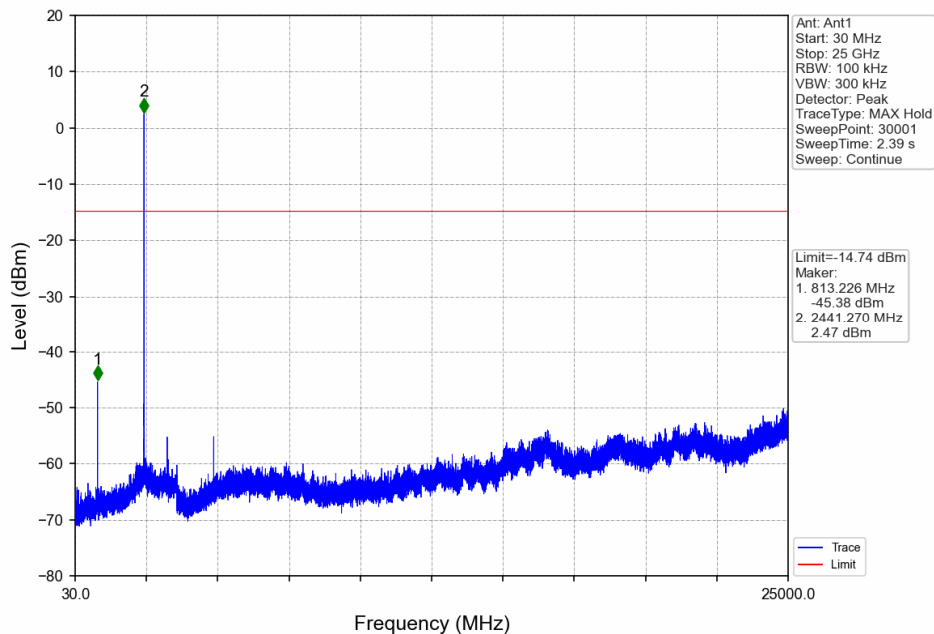
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



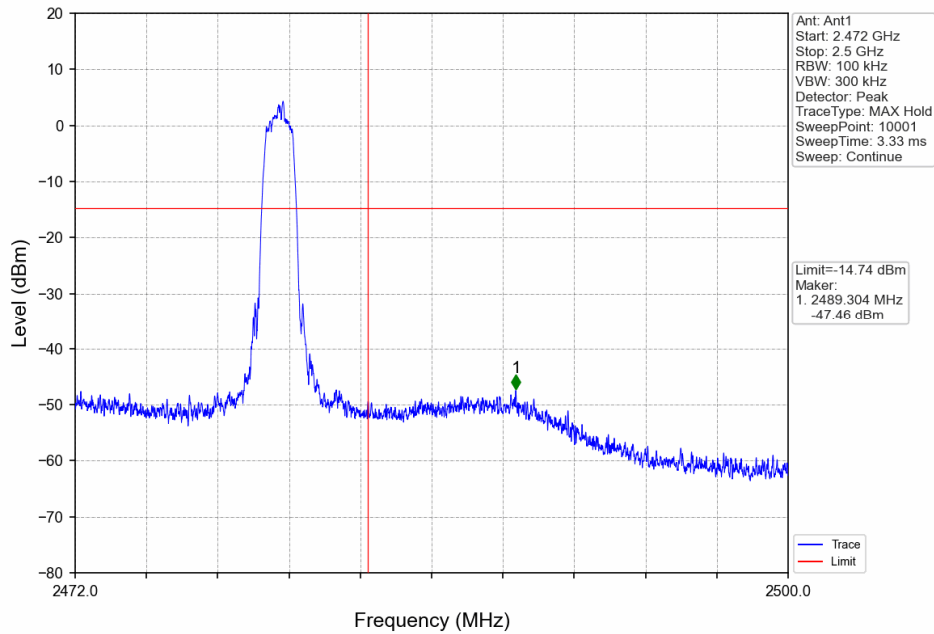
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



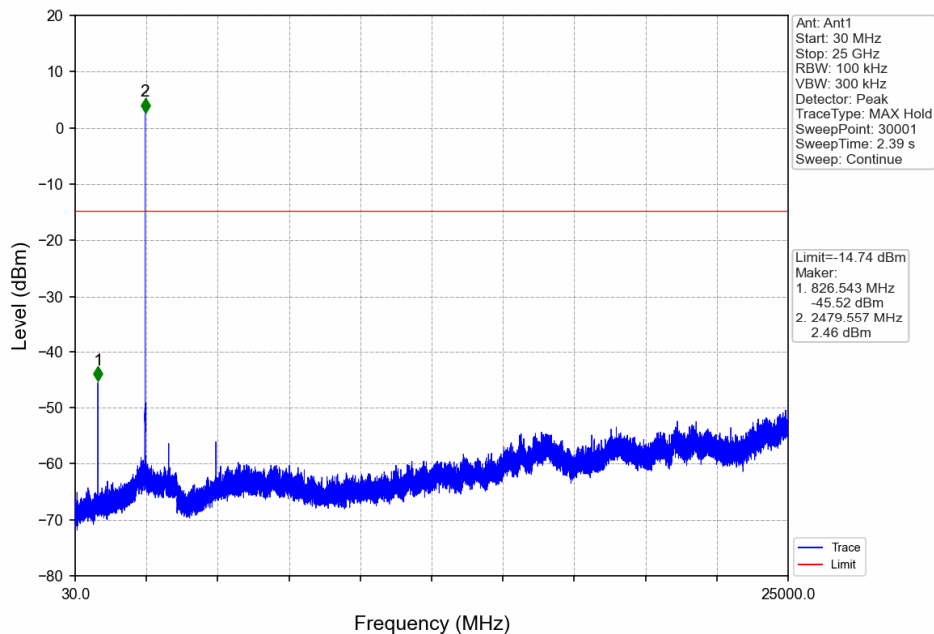
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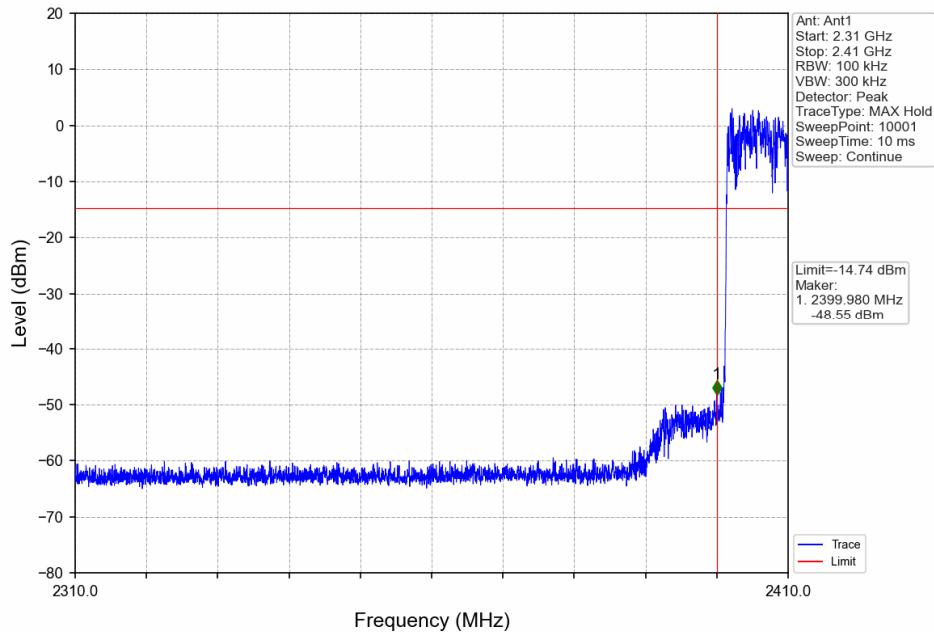
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



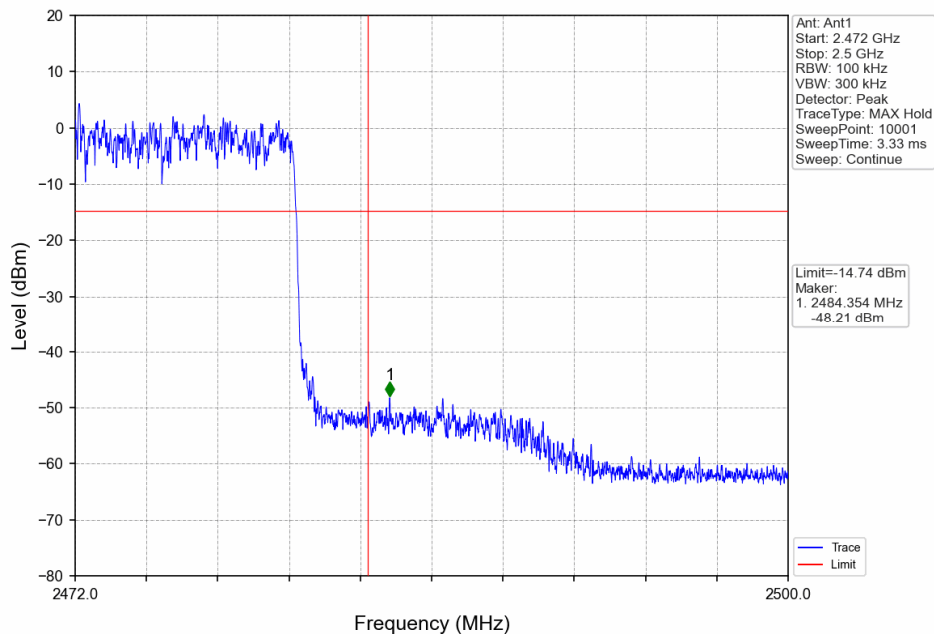
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



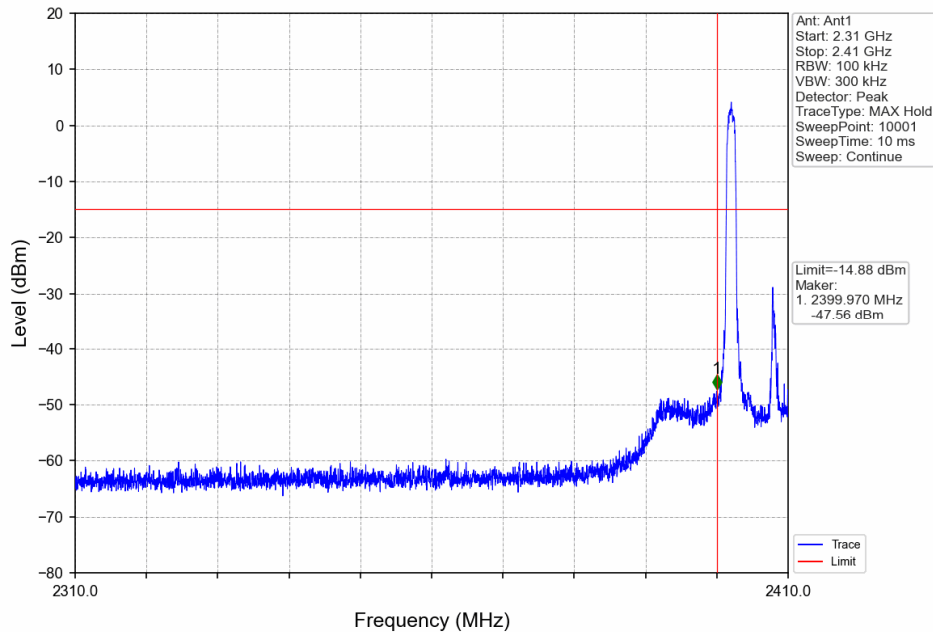
### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



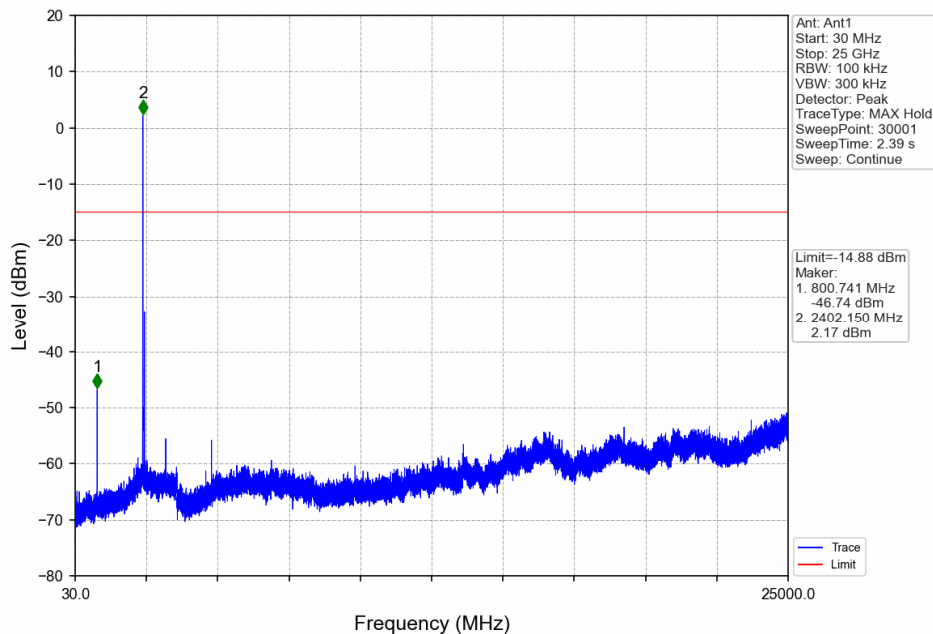
### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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

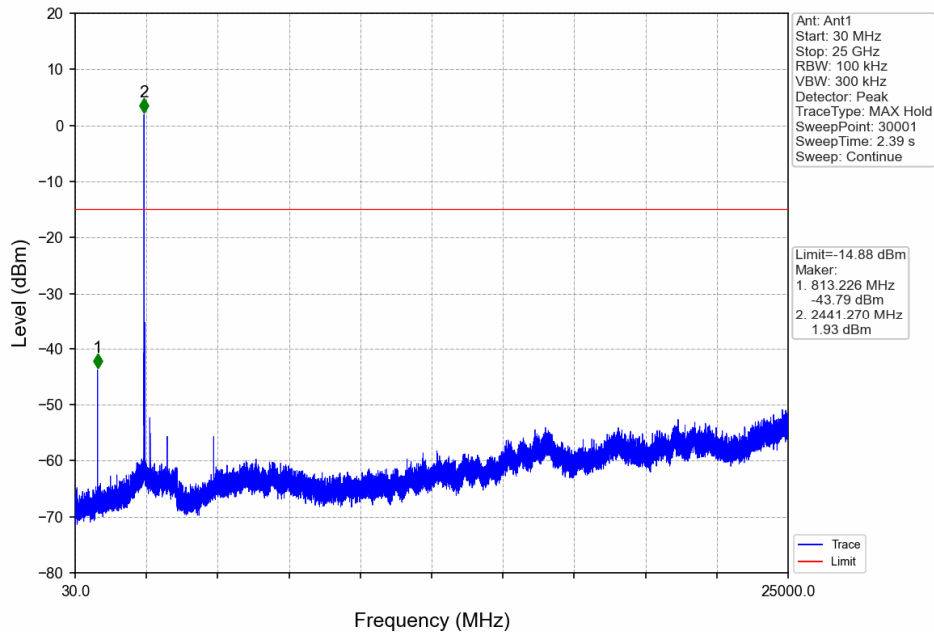


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

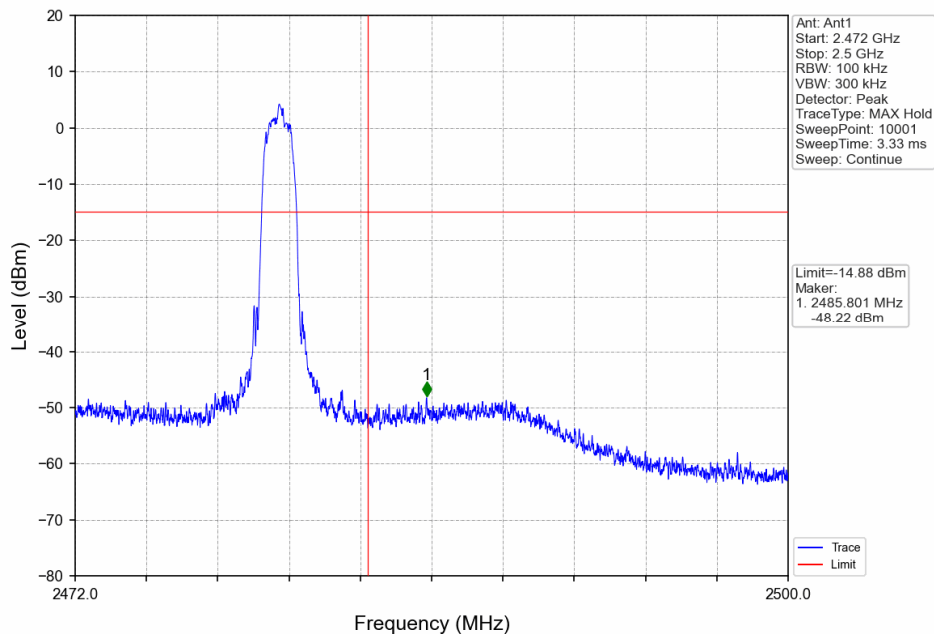




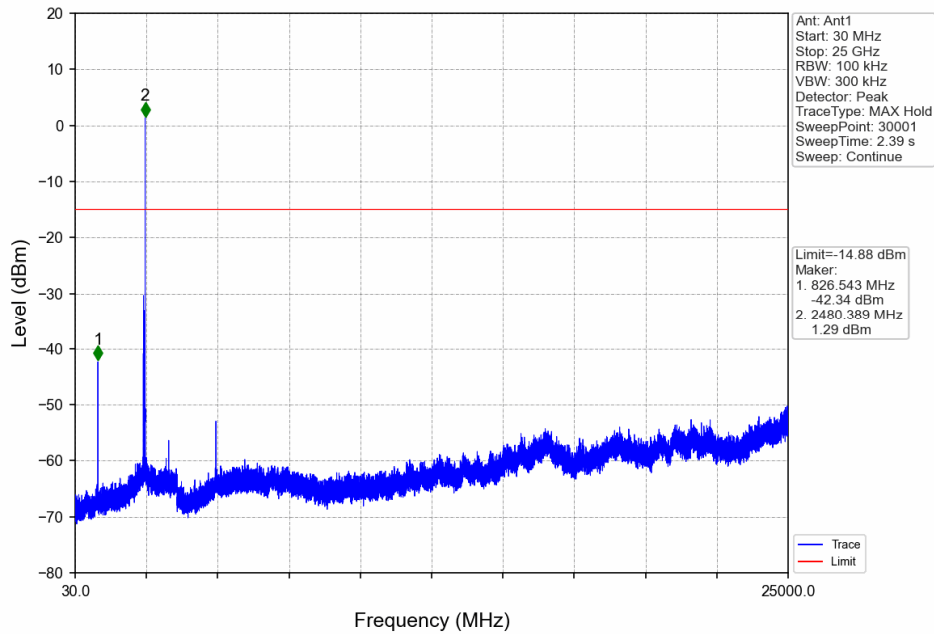
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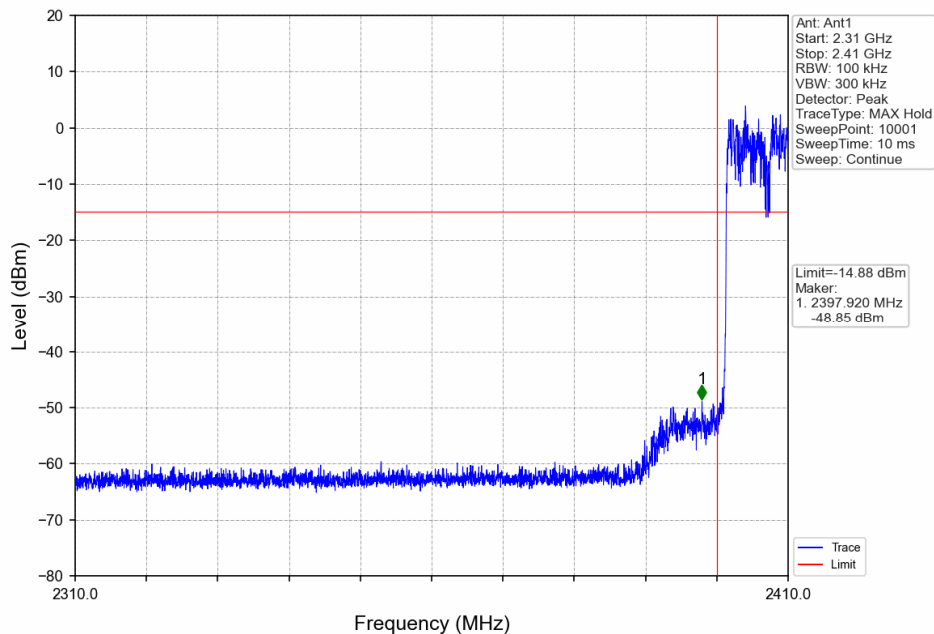
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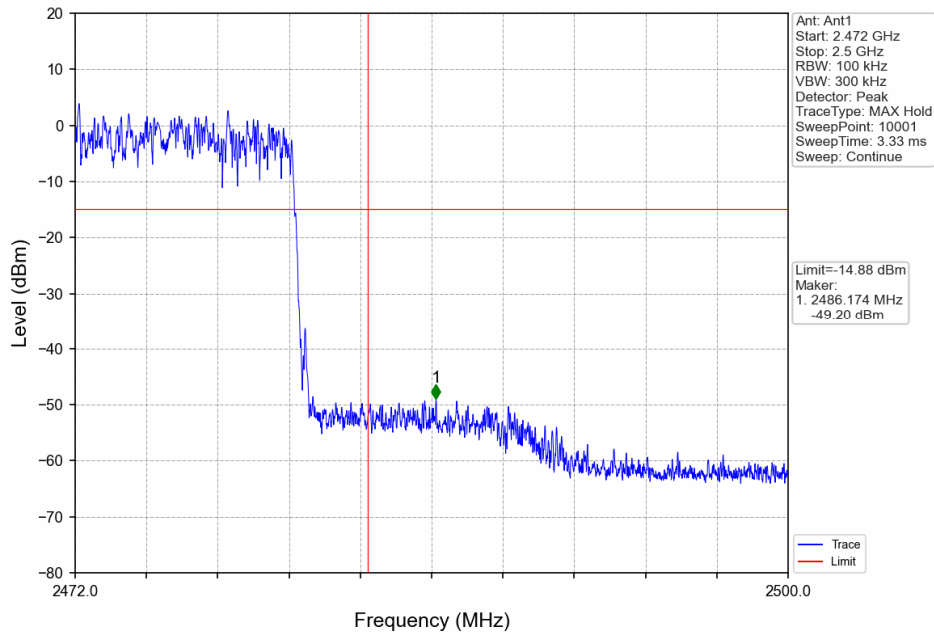
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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



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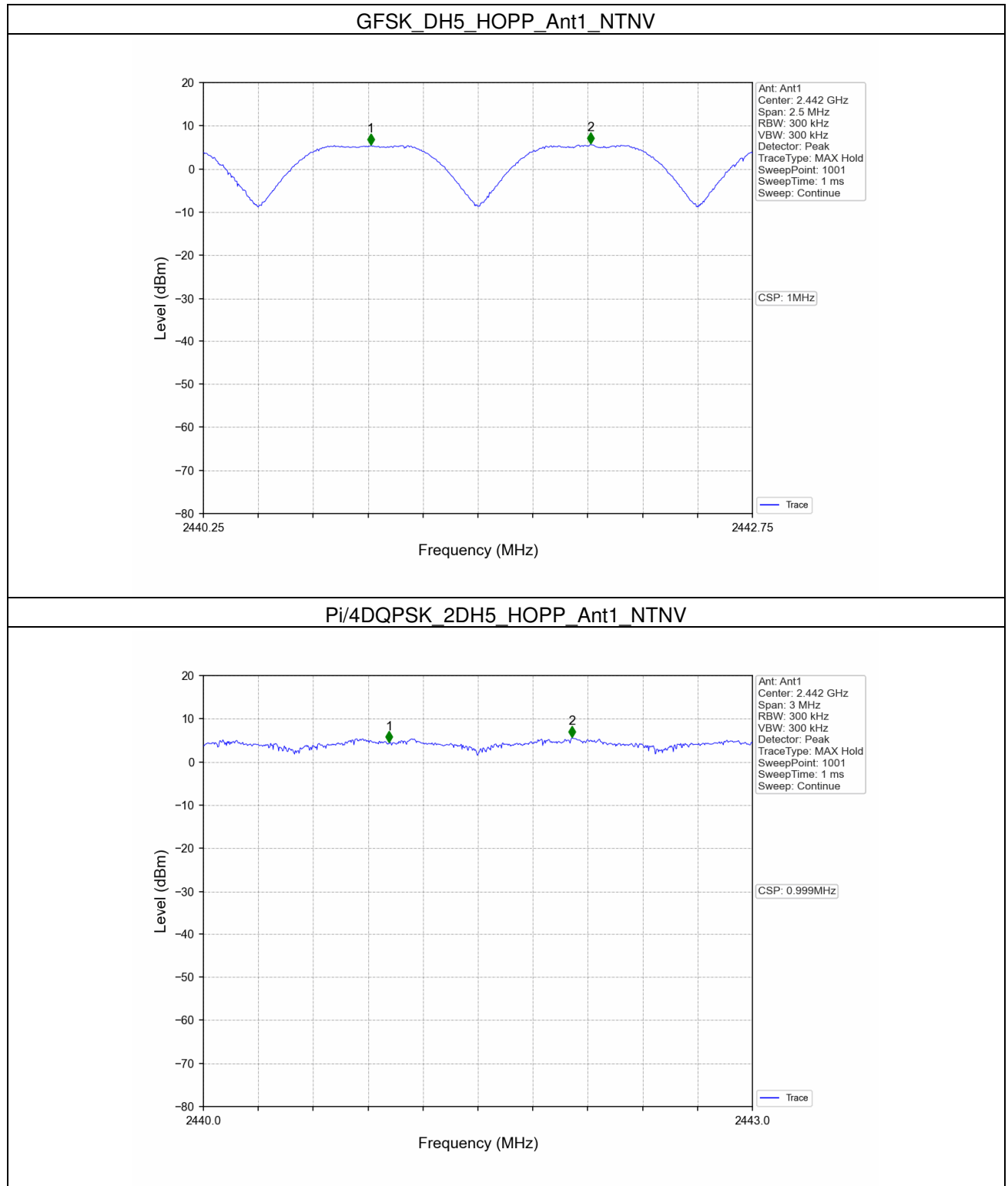
## 5. Carrier Frequency Separation

### 5.1 Ant1

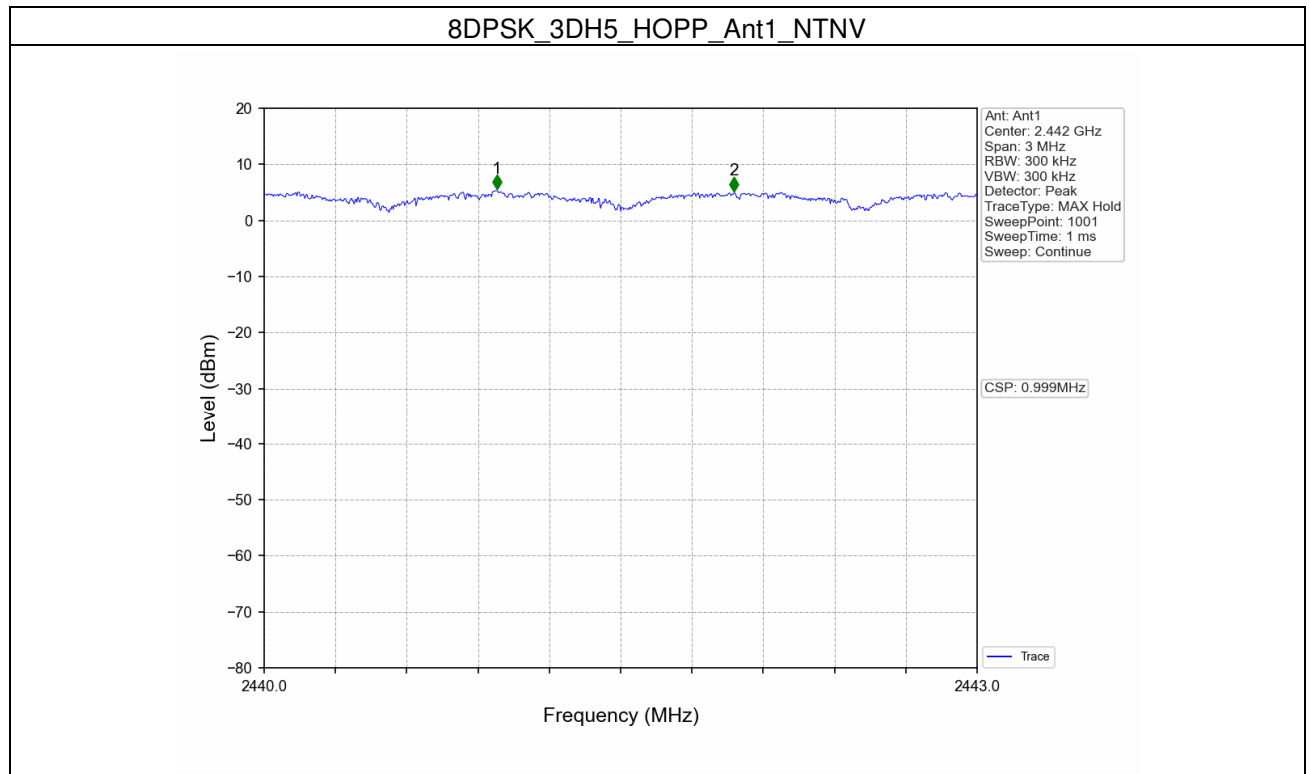
#### 5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.946	$\geq 0.946$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.999	1.294	$\geq 0.863$	Pass
8DPSK	SISO	HOPP	3DH5	0.999	1.310	$\geq 0.873$	Pass

### 5.1.2 Test Graph







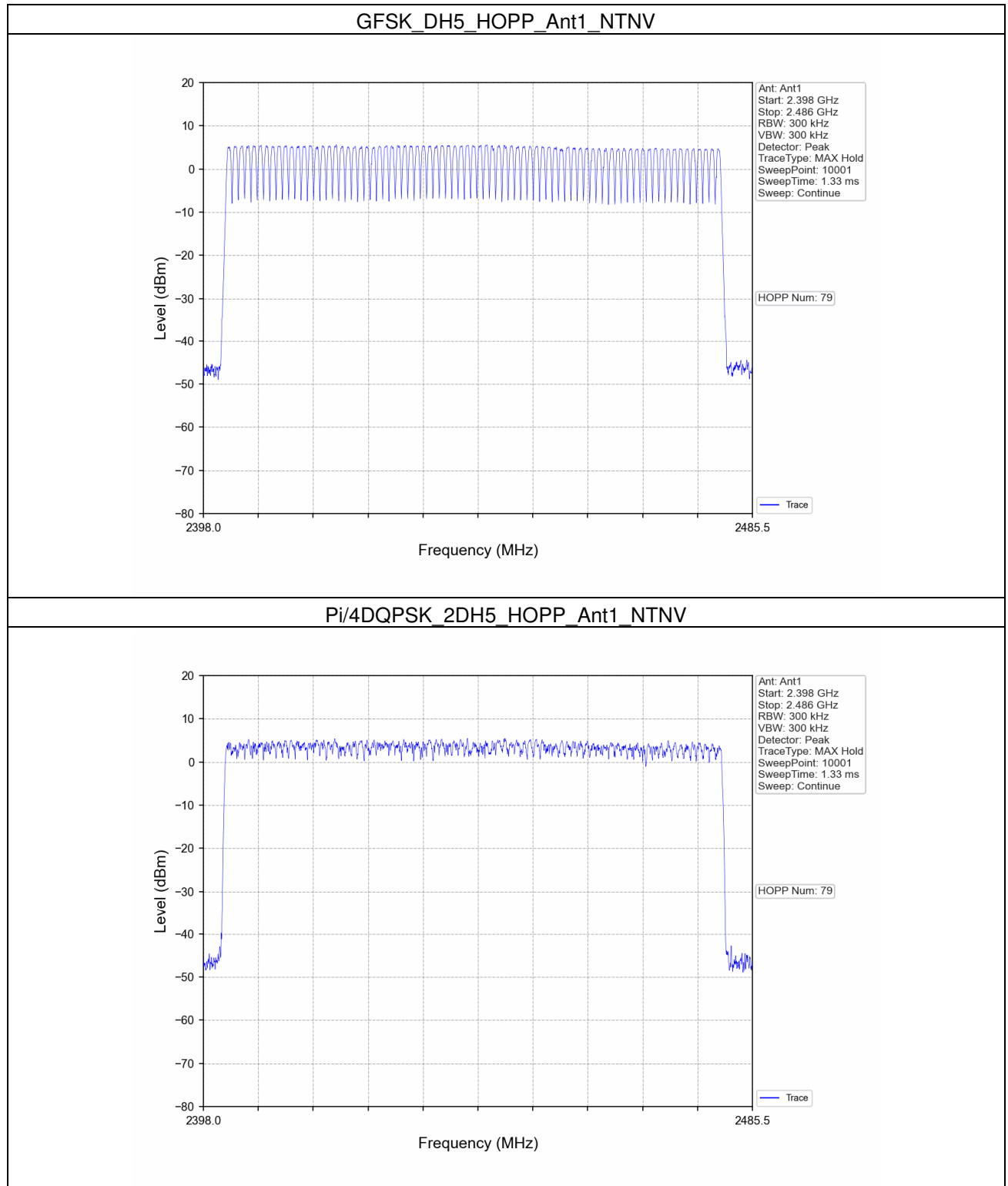
## 6. Number of Hopping Frequencies

### 6.1 HoppNum

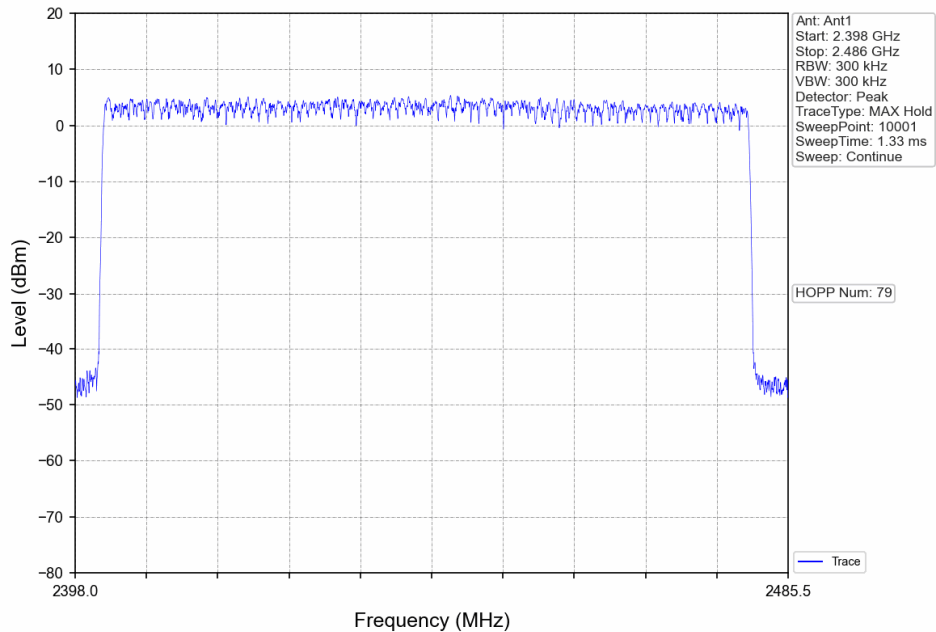
#### 6.1.1 Test Result

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

## 6.1.2 Test Graph



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



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## 7. Time of Occupancy (Dwell Time)

## 7.1 Ant1

## 7.1.1 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	0.378	31.600	111	41.958	<=400	Pass
			DH3	1.634	31.600	129	210.786	<=400	Pass
			DH5	2.882	31.600	79	227.678	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	132	51.480	<=400	Pass
			2DH3	1.642	31.600	128	210.176	<=400	Pass
			2DH5	2.890	31.600	77	222.530	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	113	44.070	<=400	Pass
			3DH3	1.642	31.600	111	182.262	<=400	Pass
			3DH5	2.892	31.600	81	234.252	<=400	Pass

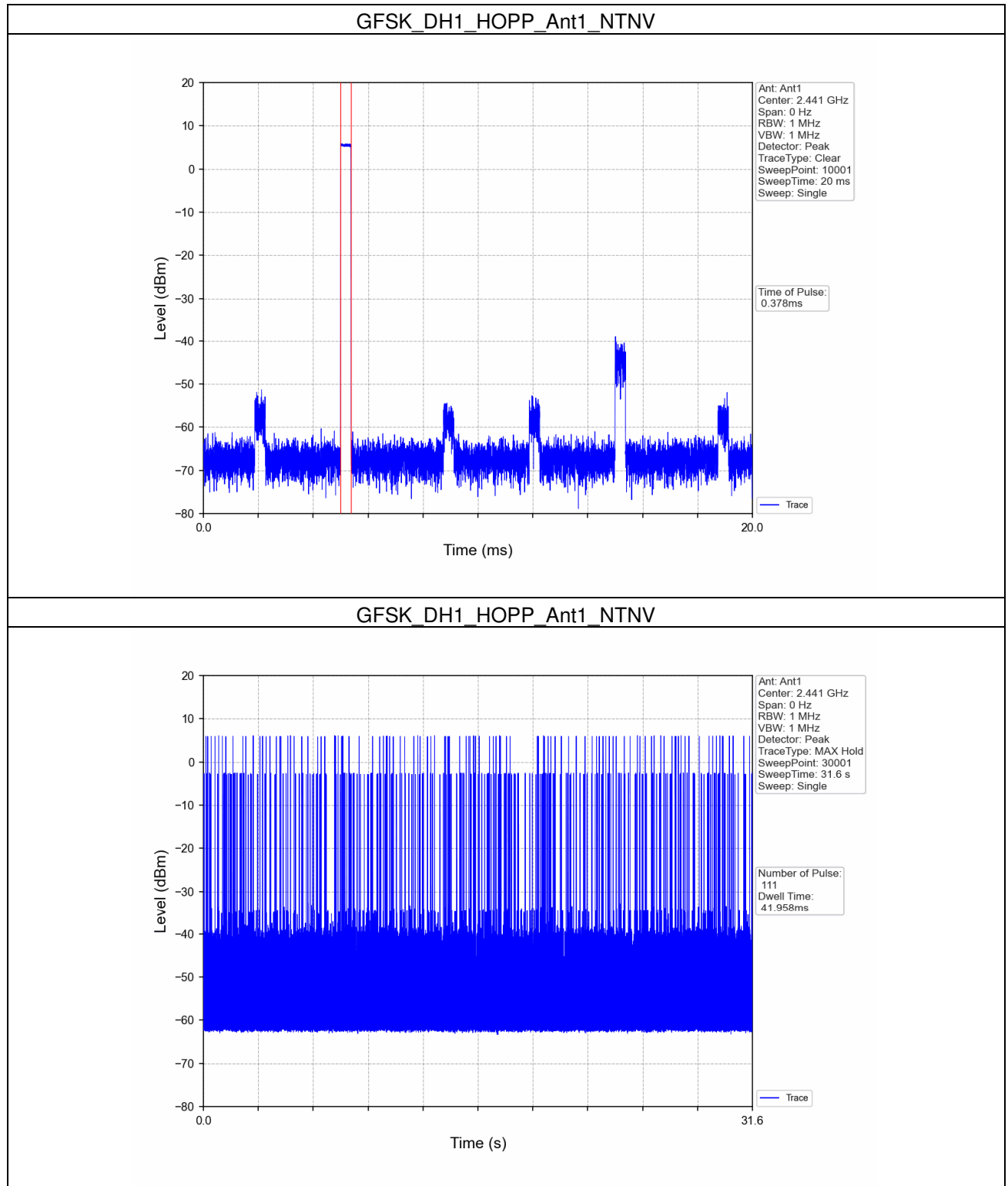


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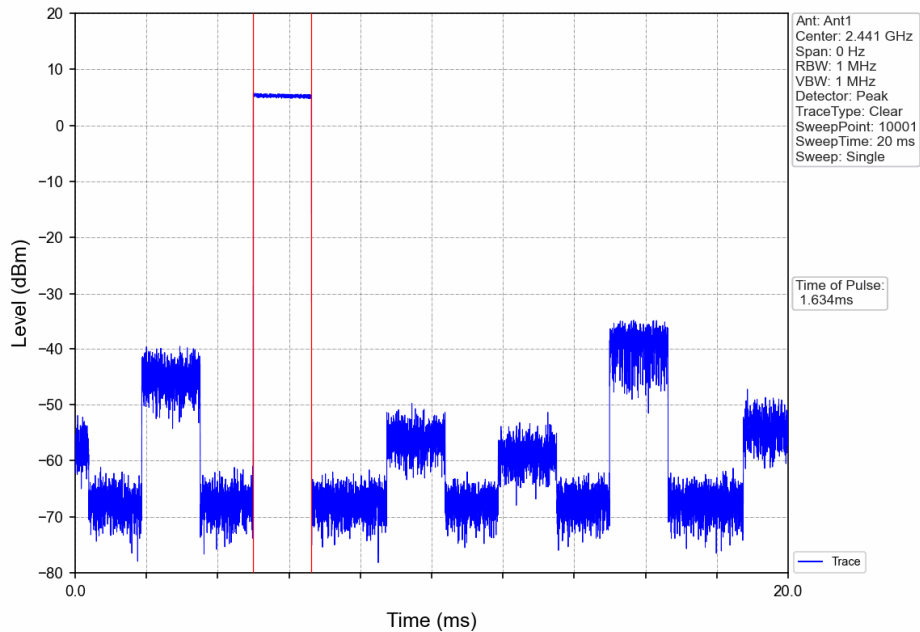
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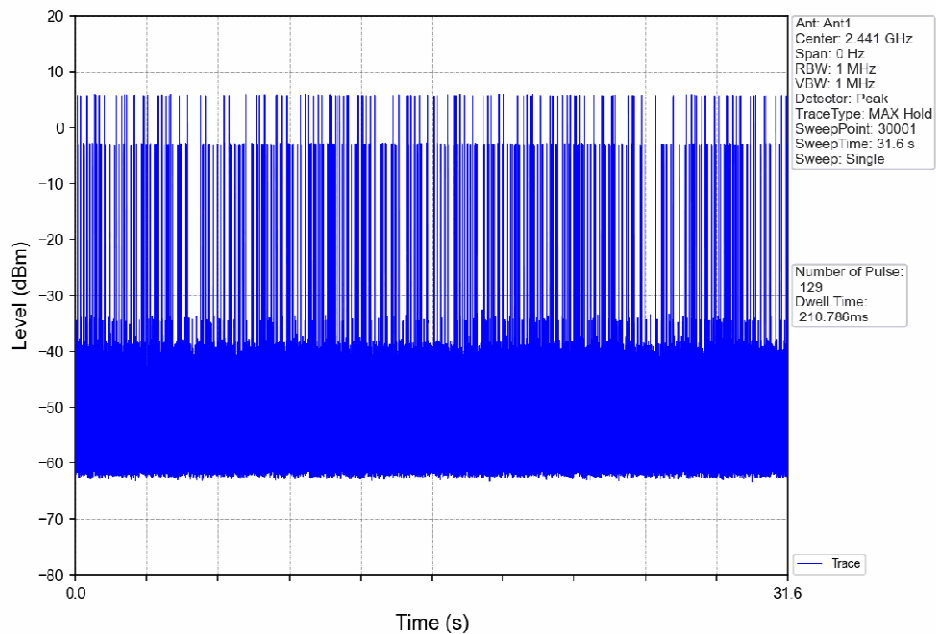
### 7.1.2 Test Graph



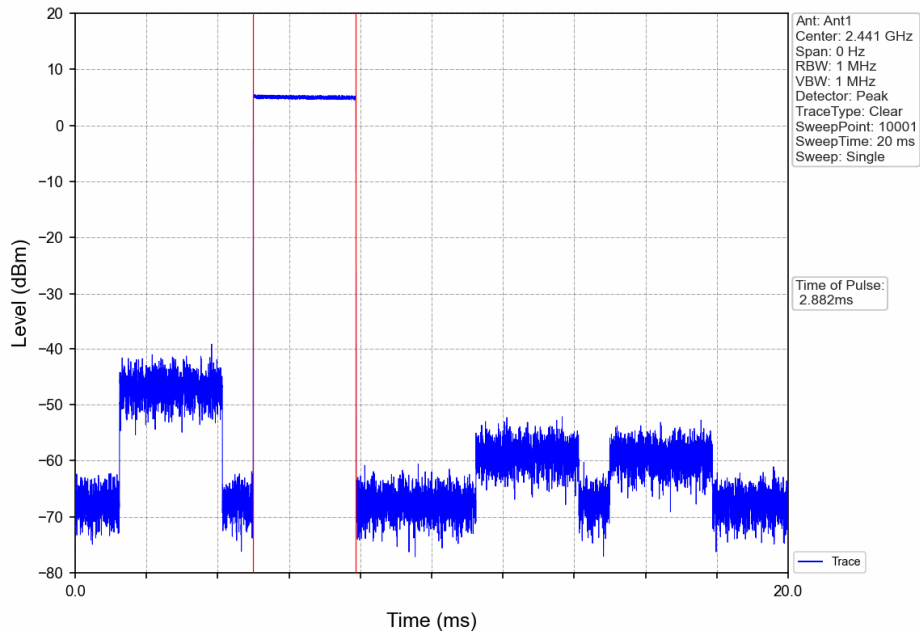
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



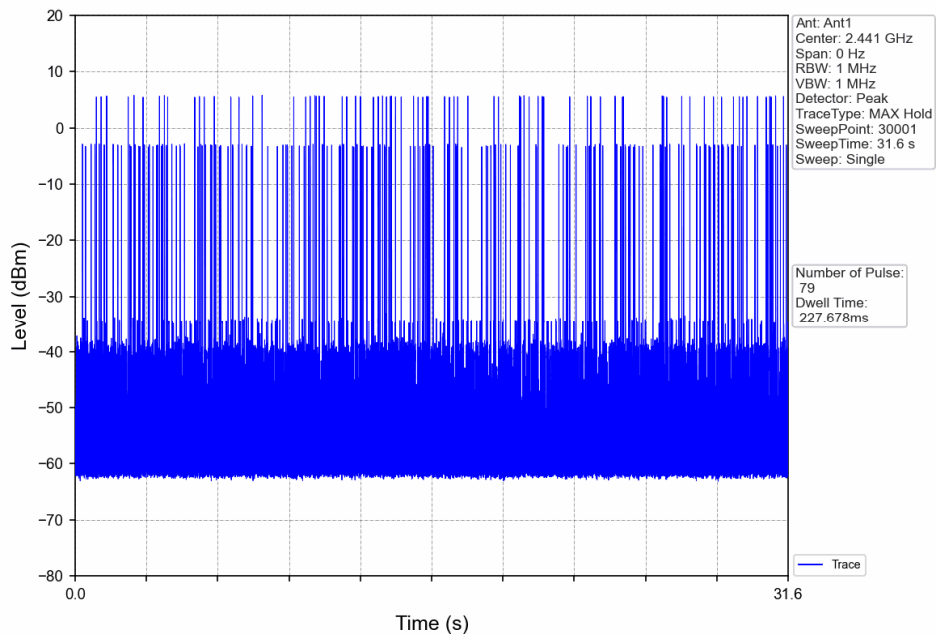
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



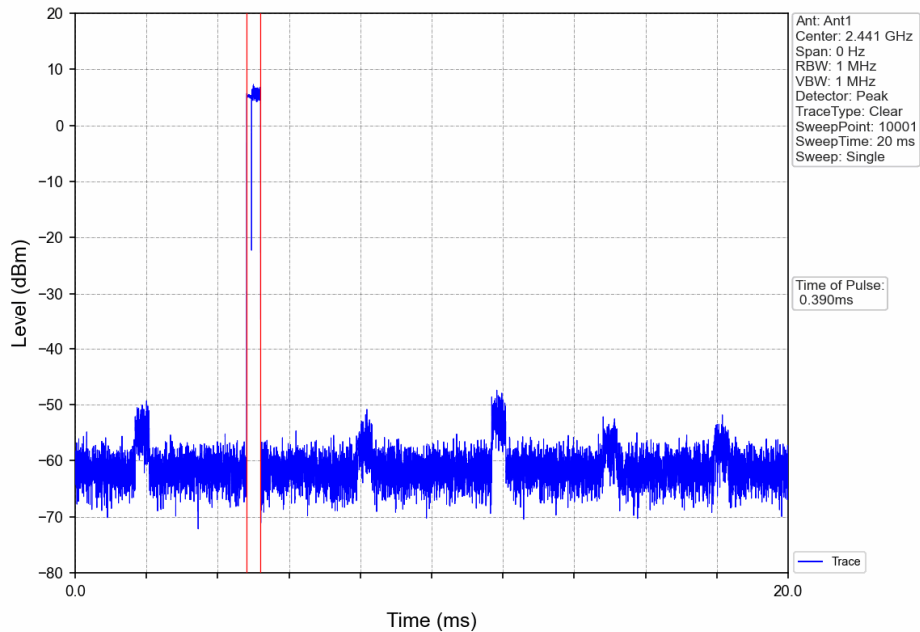
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



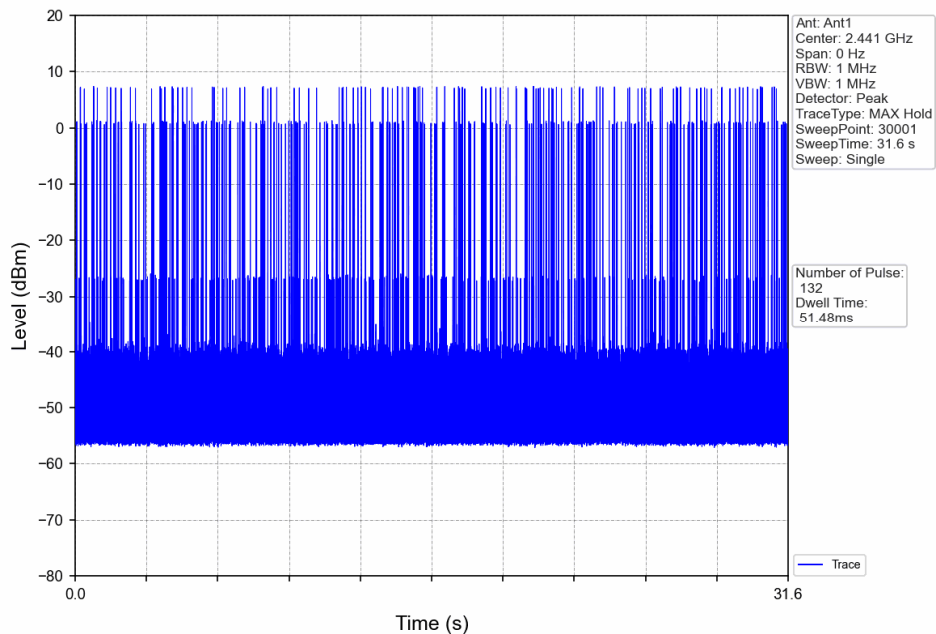
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



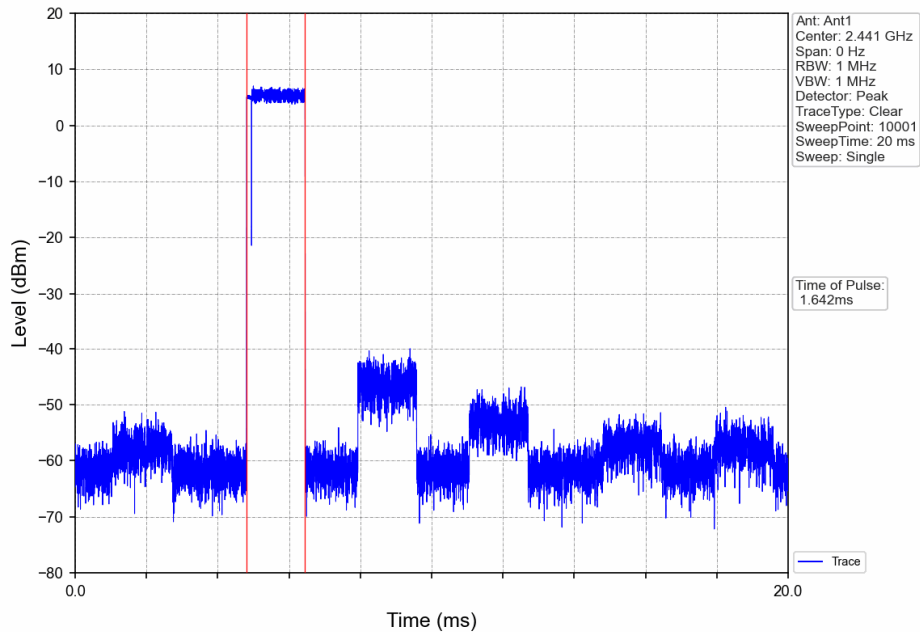
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



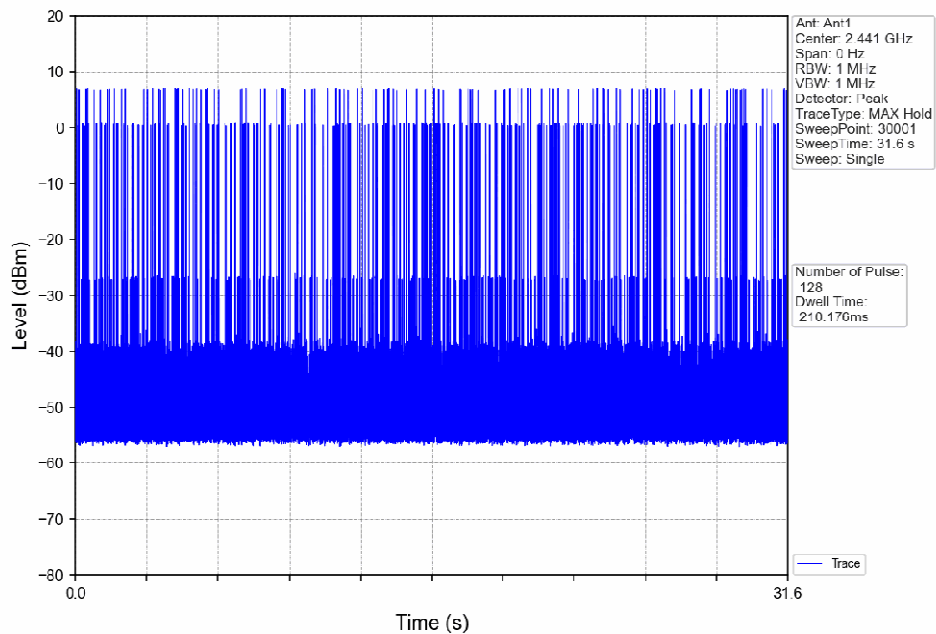
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



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

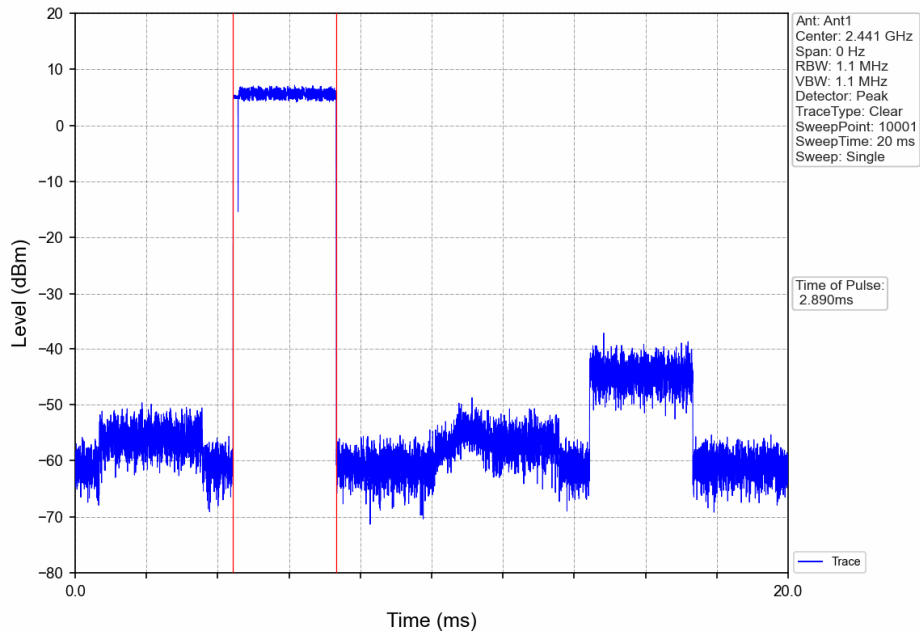


Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

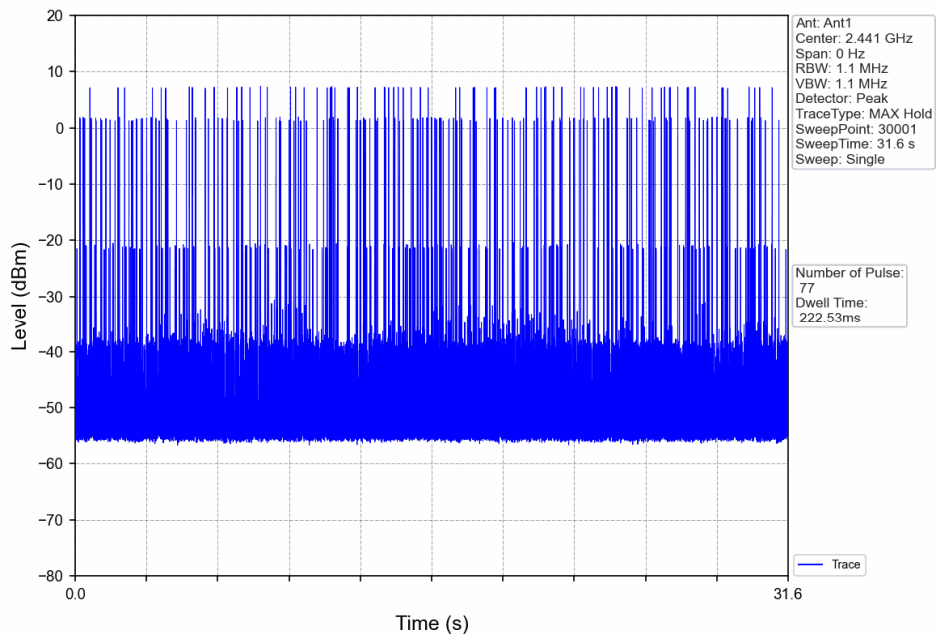




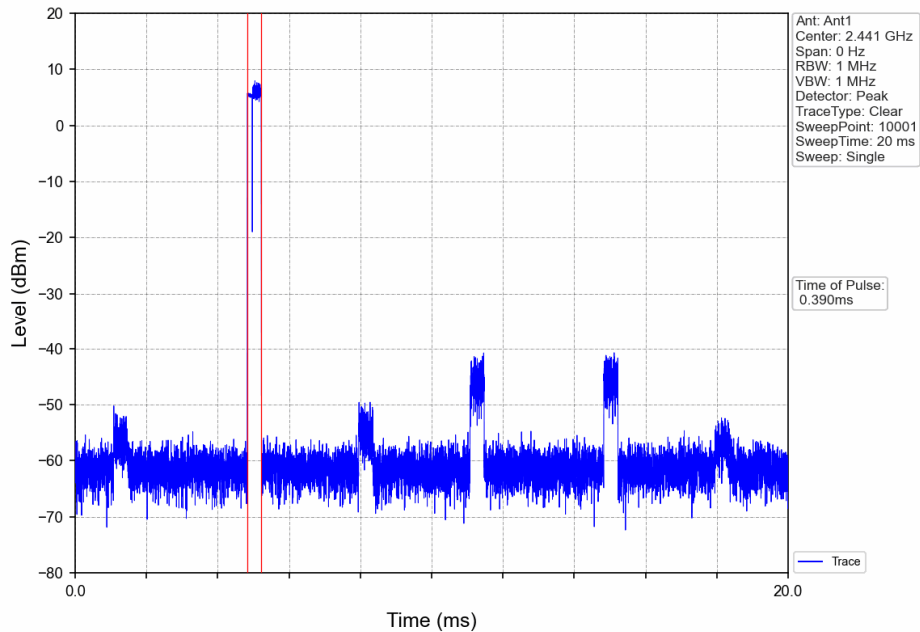
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



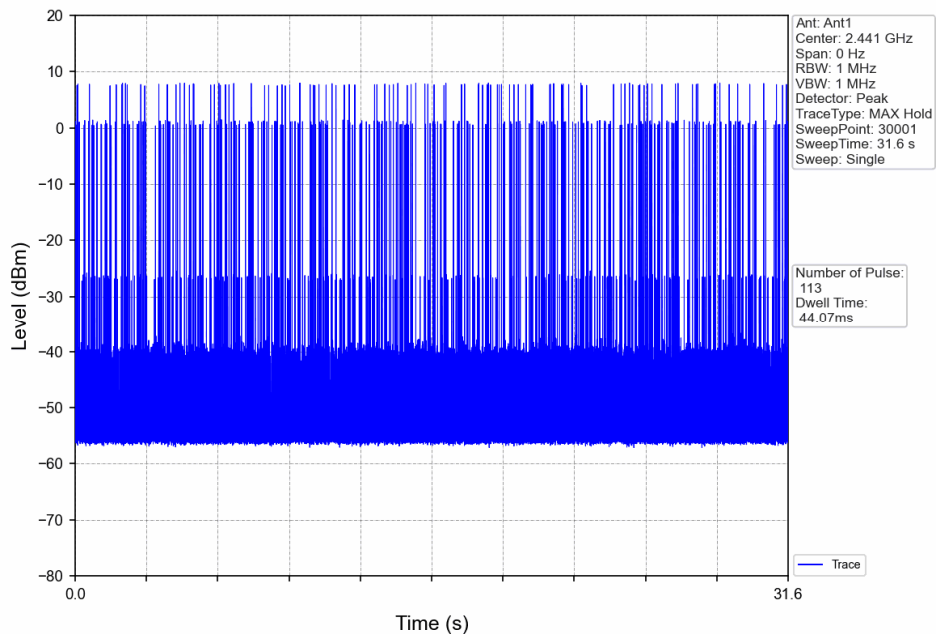
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



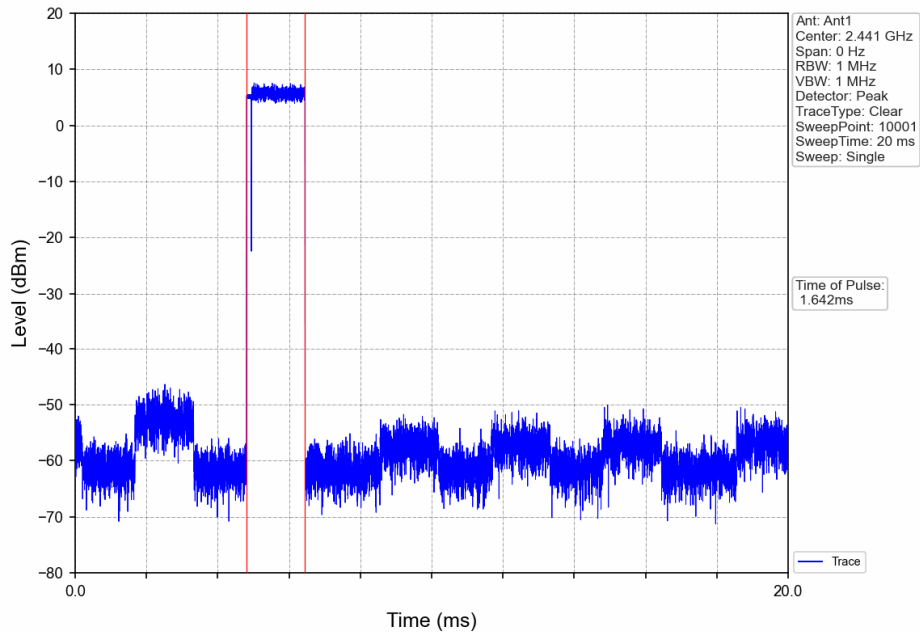
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



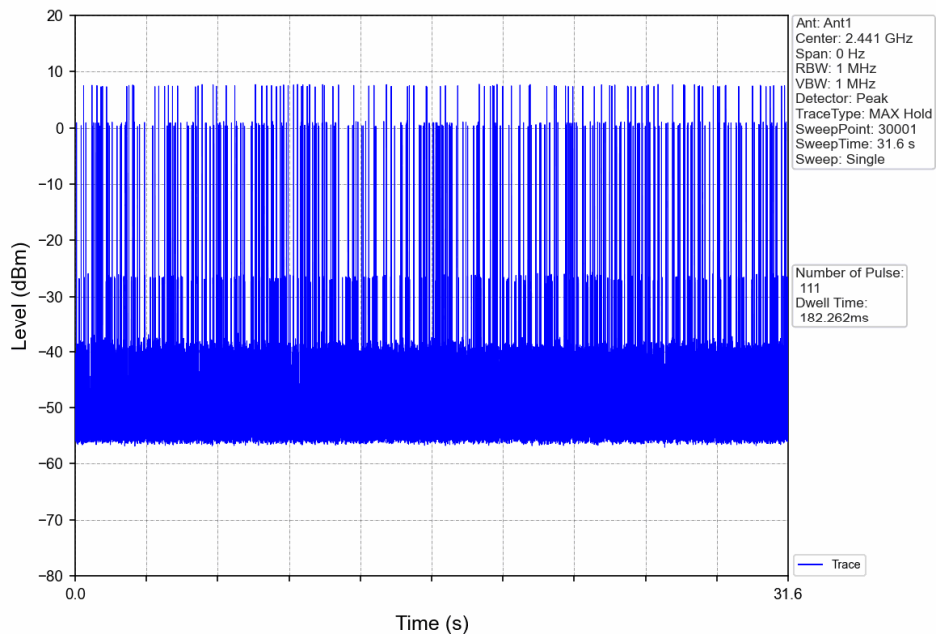
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



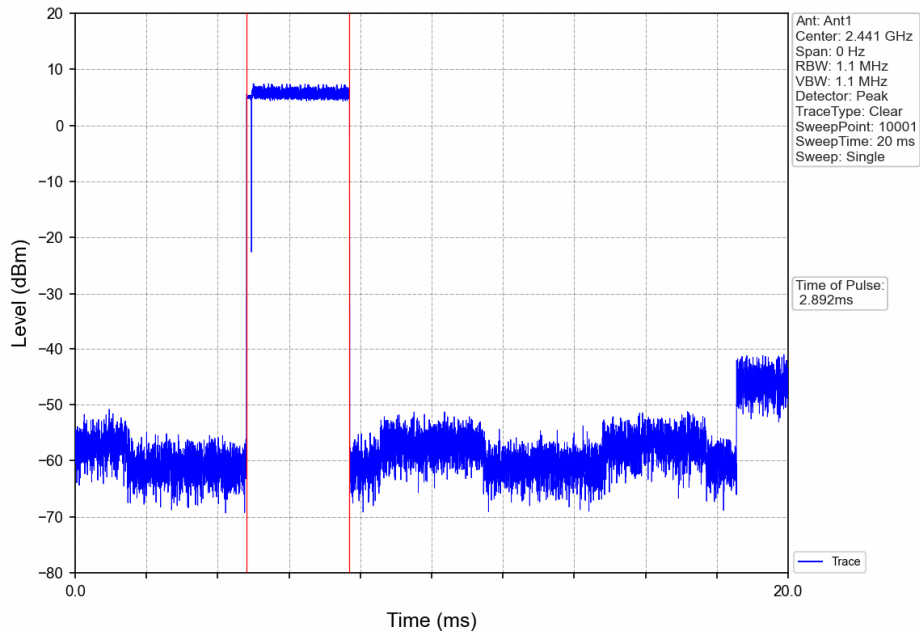
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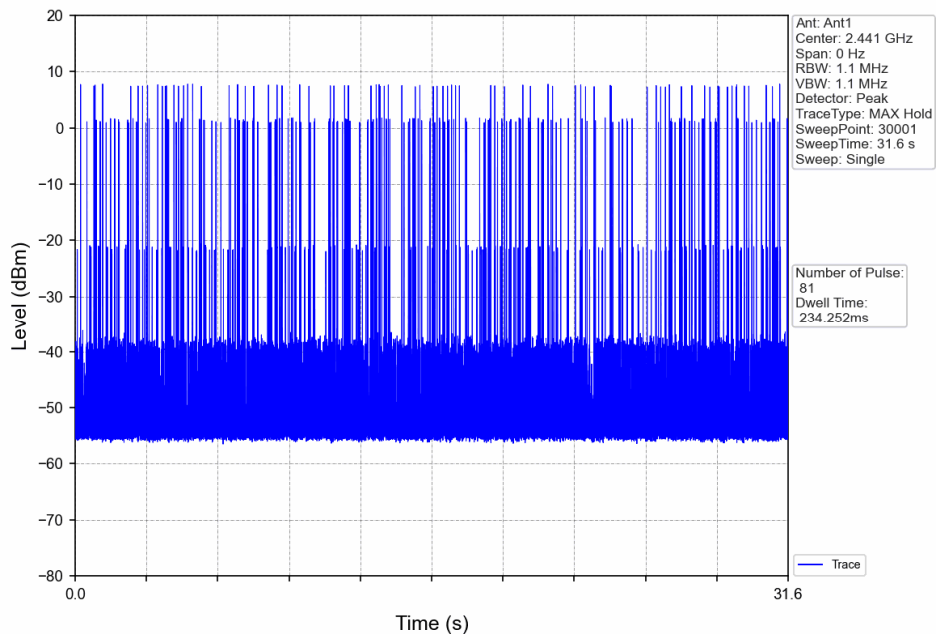
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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



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



- End of the Report -



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