

## 1. Bandwidth

### 1.1 Test Result

#### 1.1.1 OBW

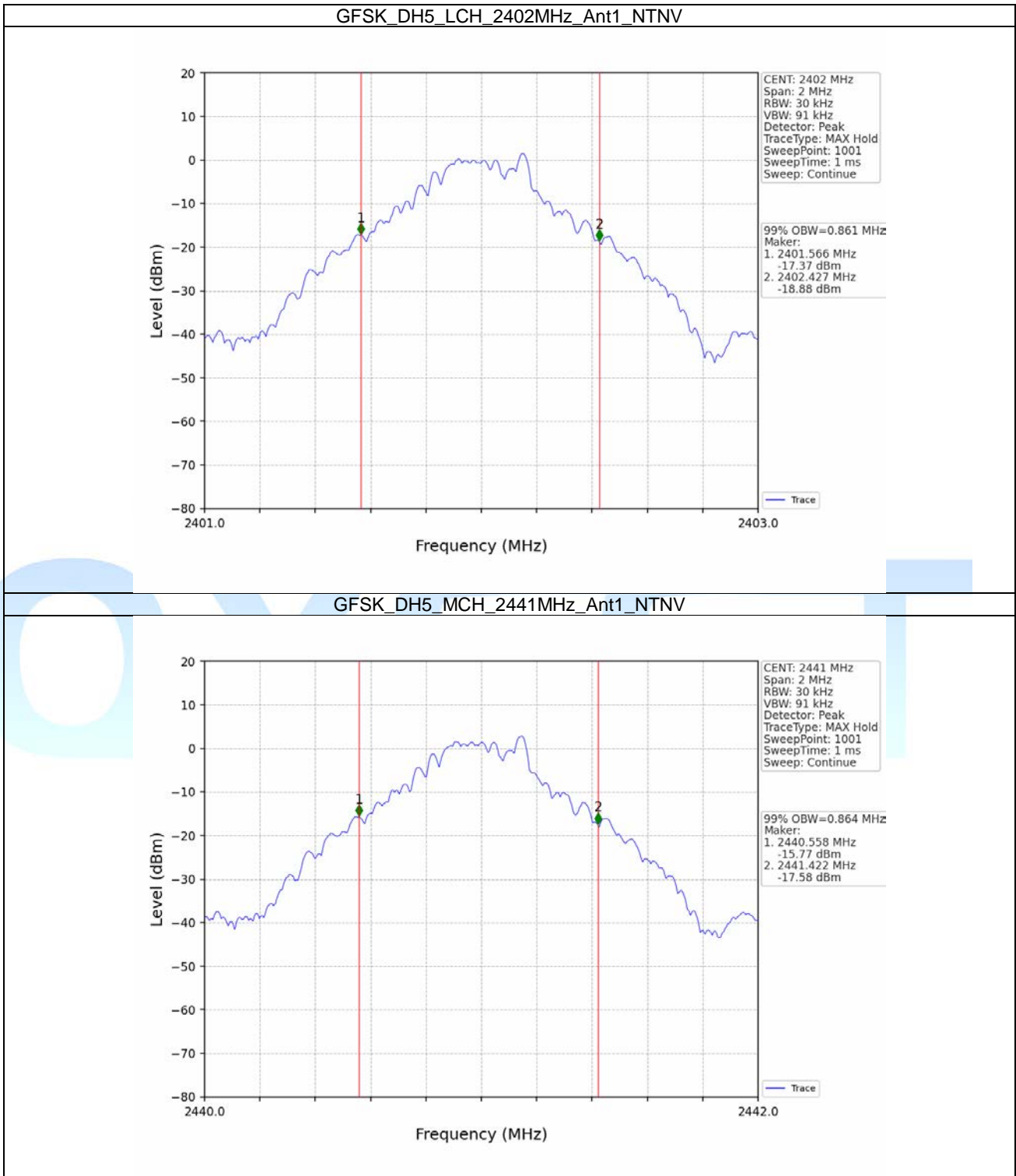
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.861	/	Pass
		2441	DH5	1	0.864	/	Pass
		2480	DH5	1	0.862	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.197	/	Pass
		2441	2DH5	1	1.195	/	Pass
		2480	2DH5	1	1.197	/	Pass
8DPSK	SISO	2402	3DH5	1	1.192	/	Pass
		2441	3DH5	1	1.195	/	Pass
		2480	3DH5	1	1.192	/	Pass

#### 1.1.2 20dB BW

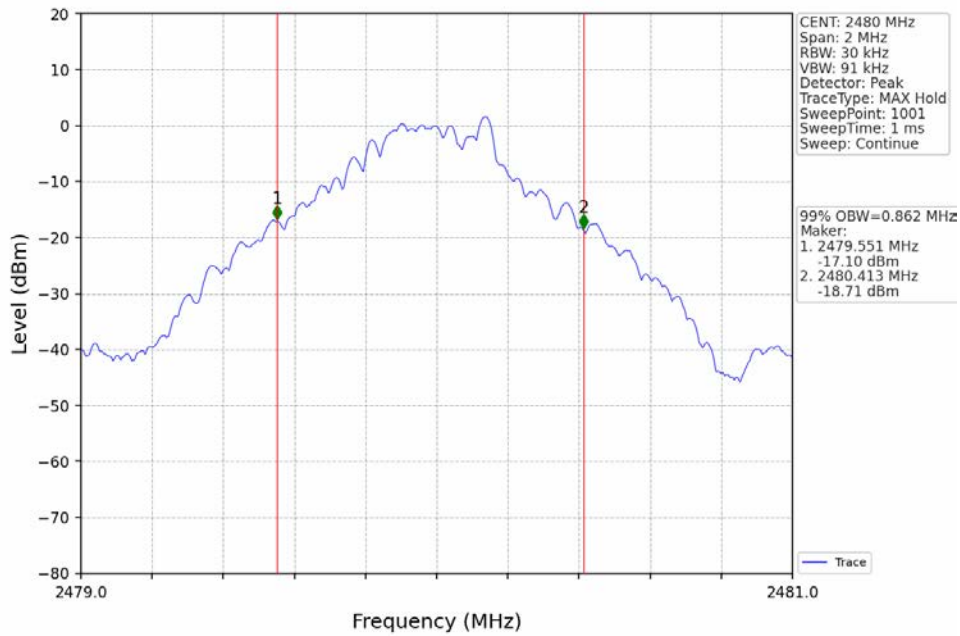
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.936	/	Pass
		2441	DH5	1	0.938	/	Pass
		2480	DH5	1	0.939	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.349	/	Pass
		2441	2DH5	1	1.352	/	Pass
		2480	2DH5	1	1.351	/	Pass
8DPSK	SISO	2402	3DH5	1	1.316	/	Pass
		2441	3DH5	1	1.320	/	Pass
		2480	3DH5	1	1.316	/	Pass

## 1.2 Test Graph

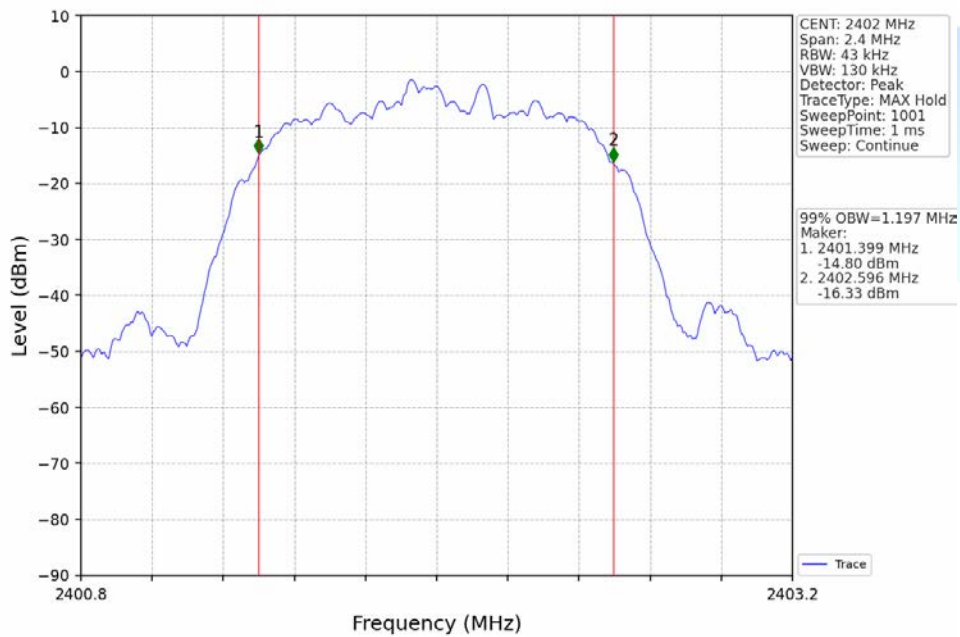
### 1.2.1 OBW



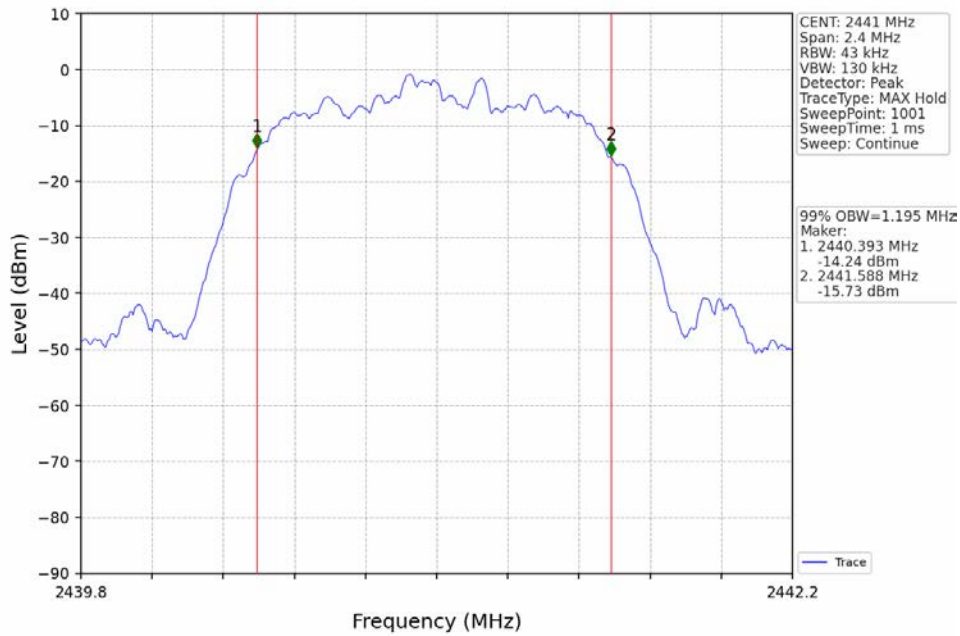
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



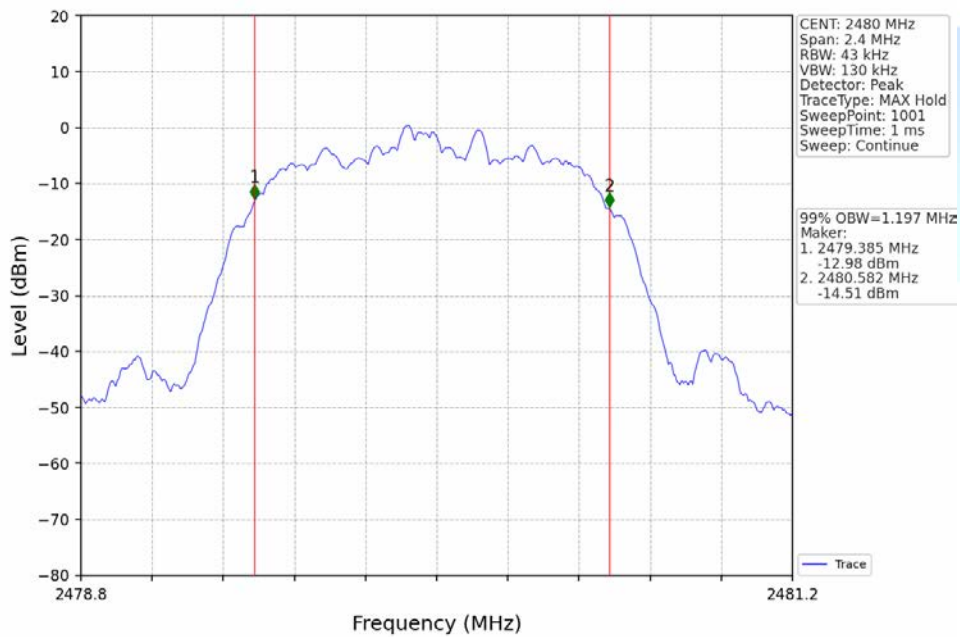
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



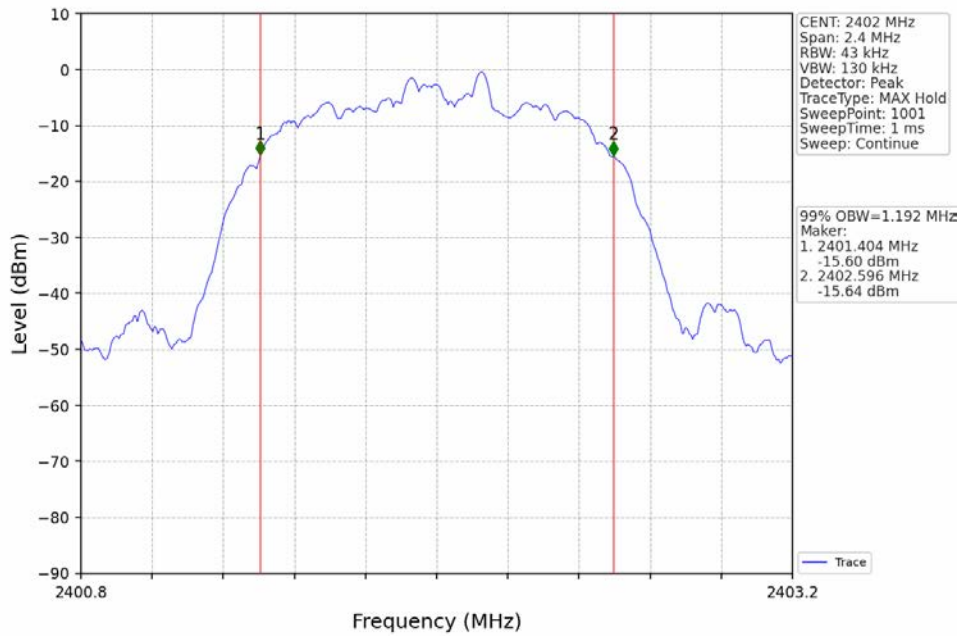
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



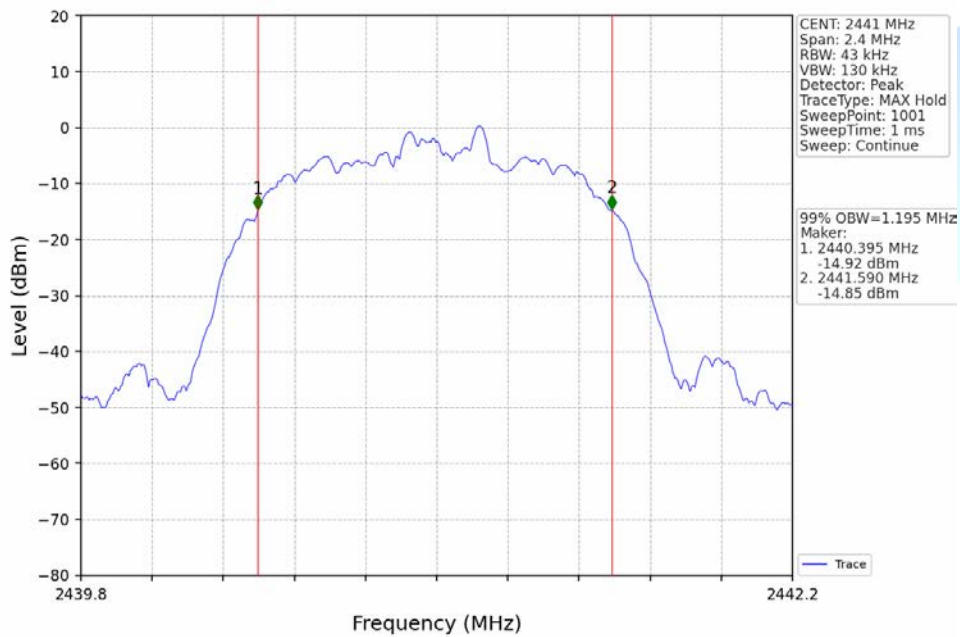
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

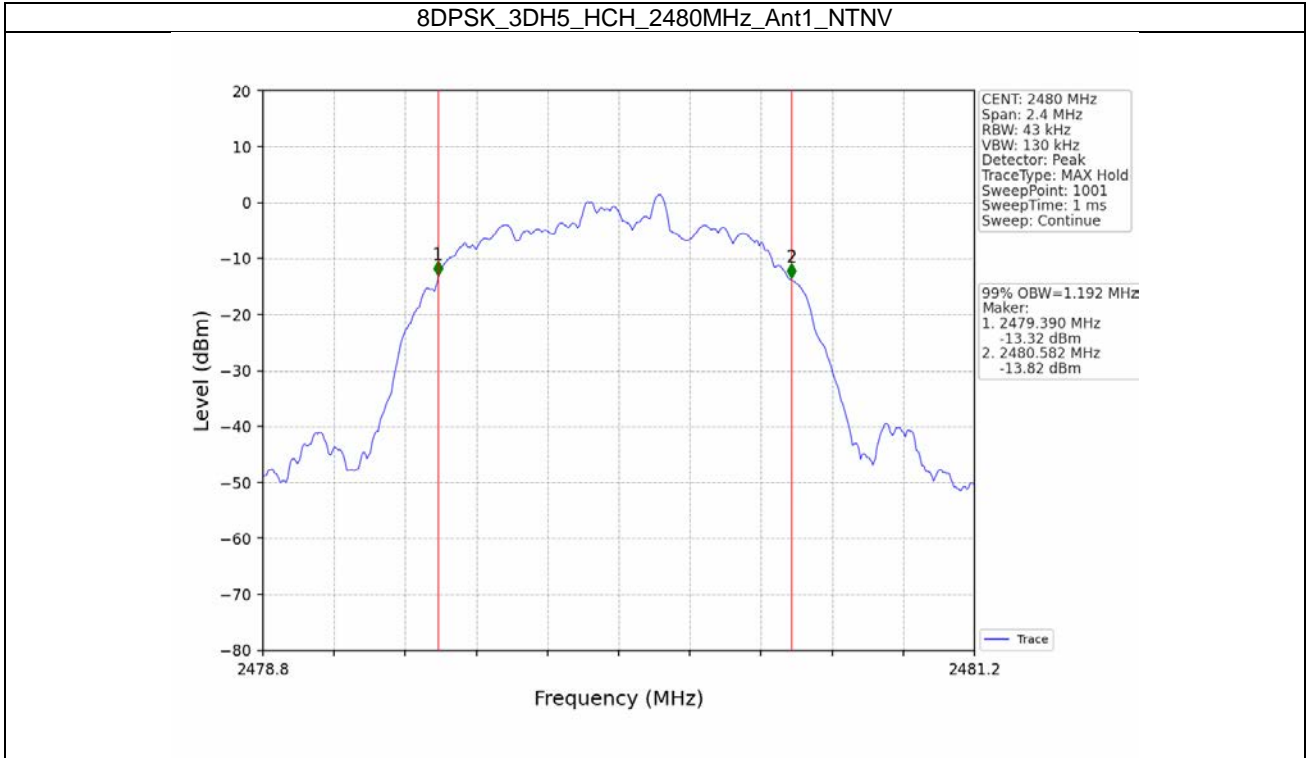


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



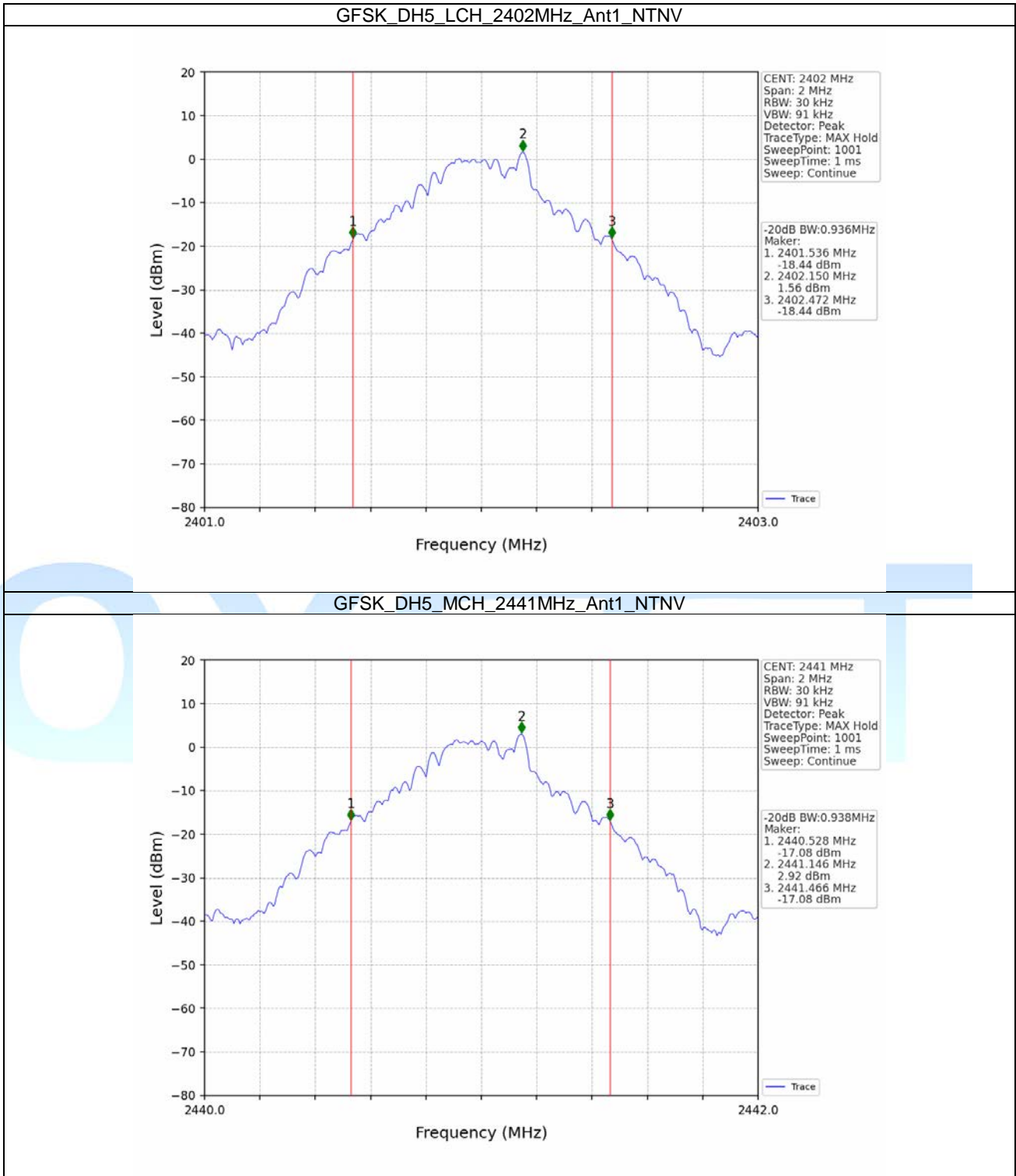
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



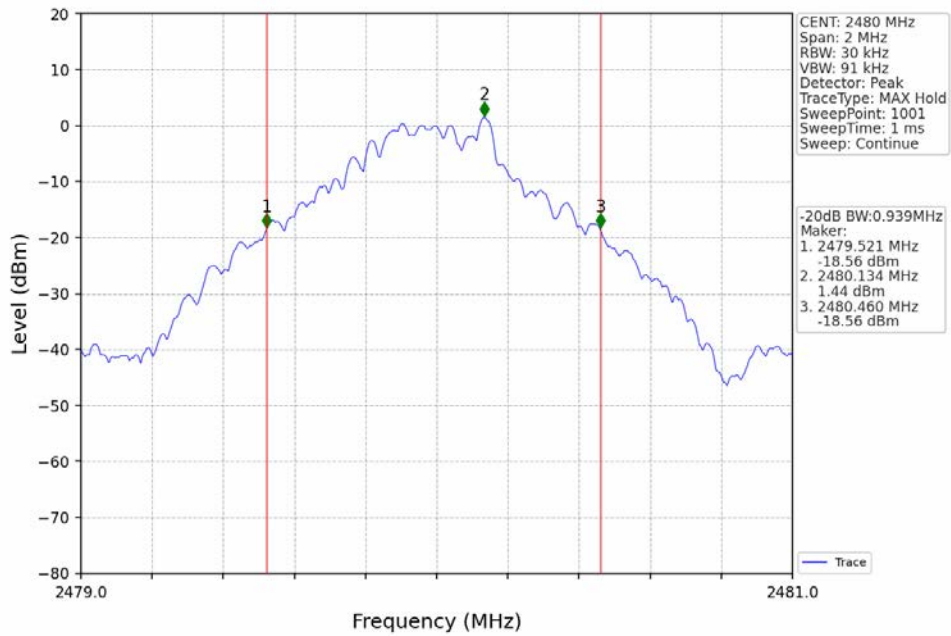




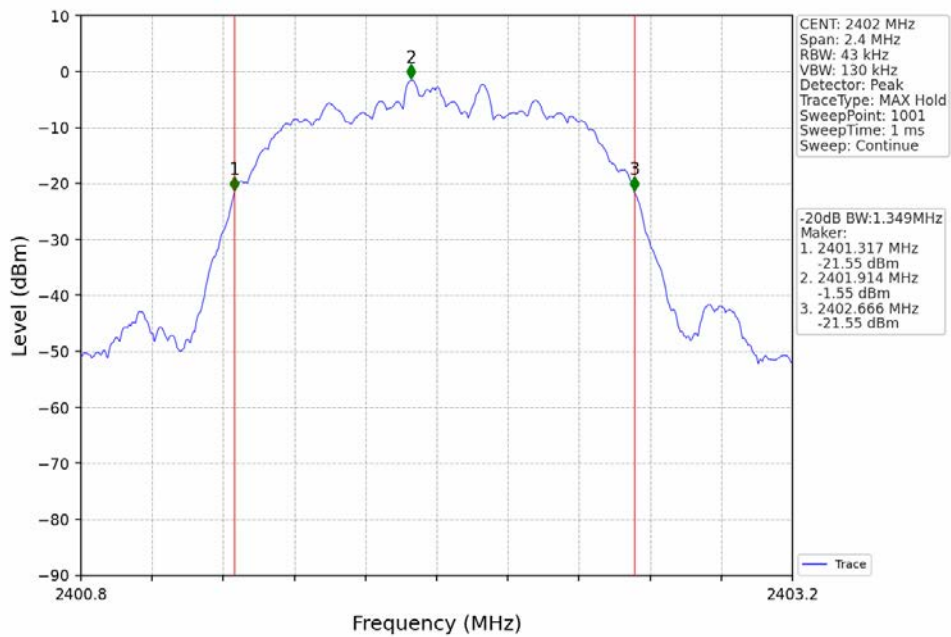
1.2.2 20dB BW



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

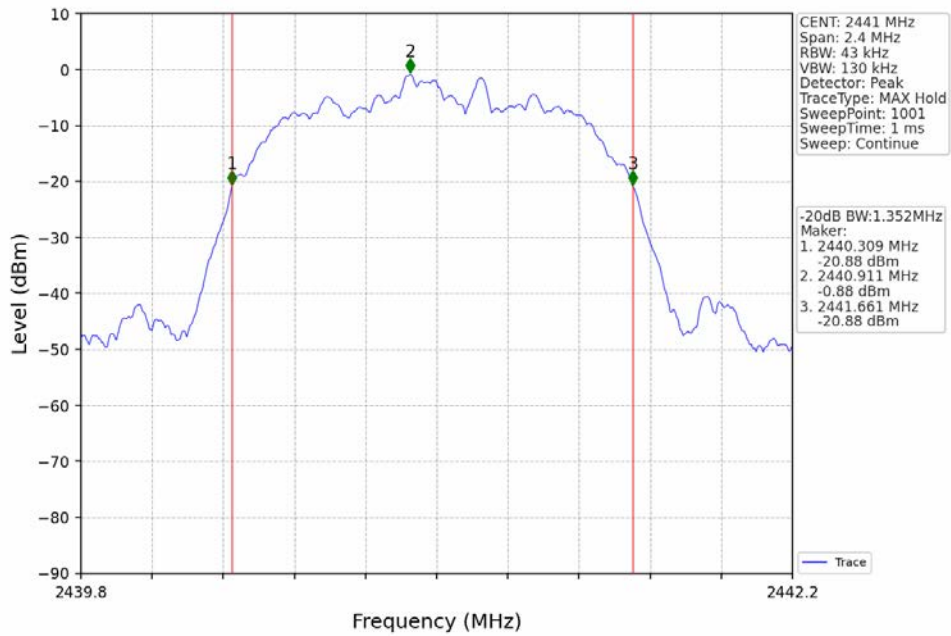


Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

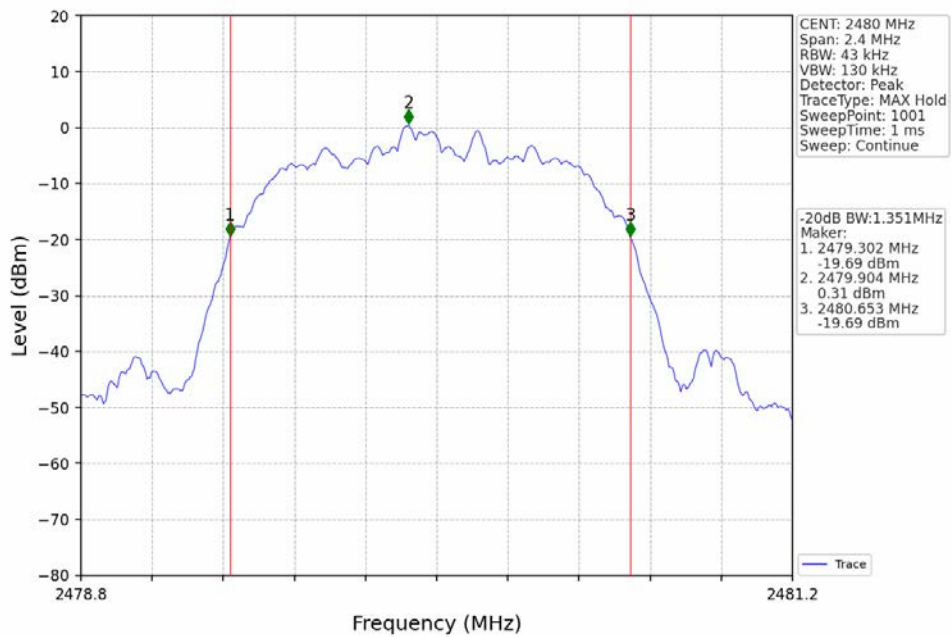




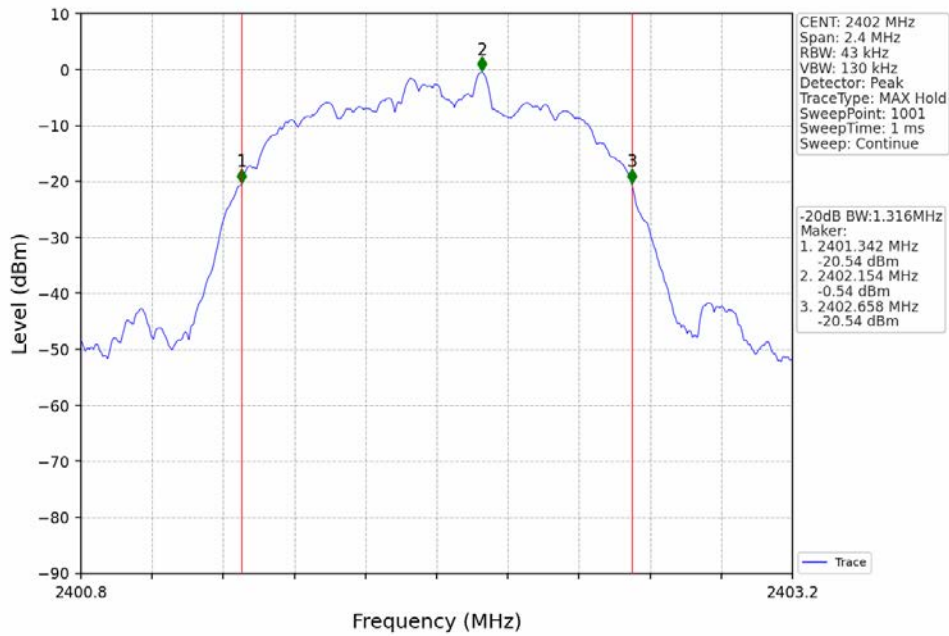
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



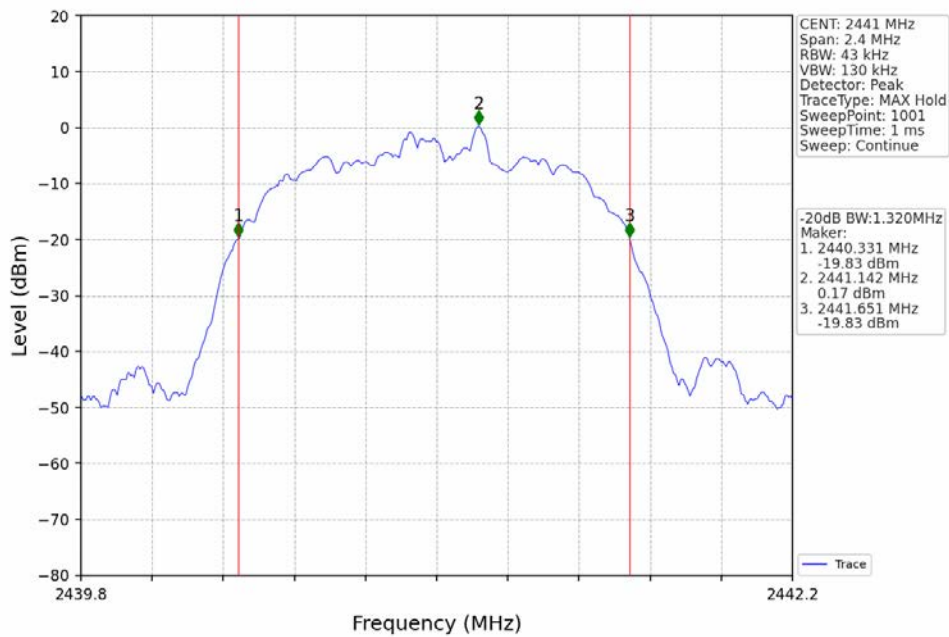
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

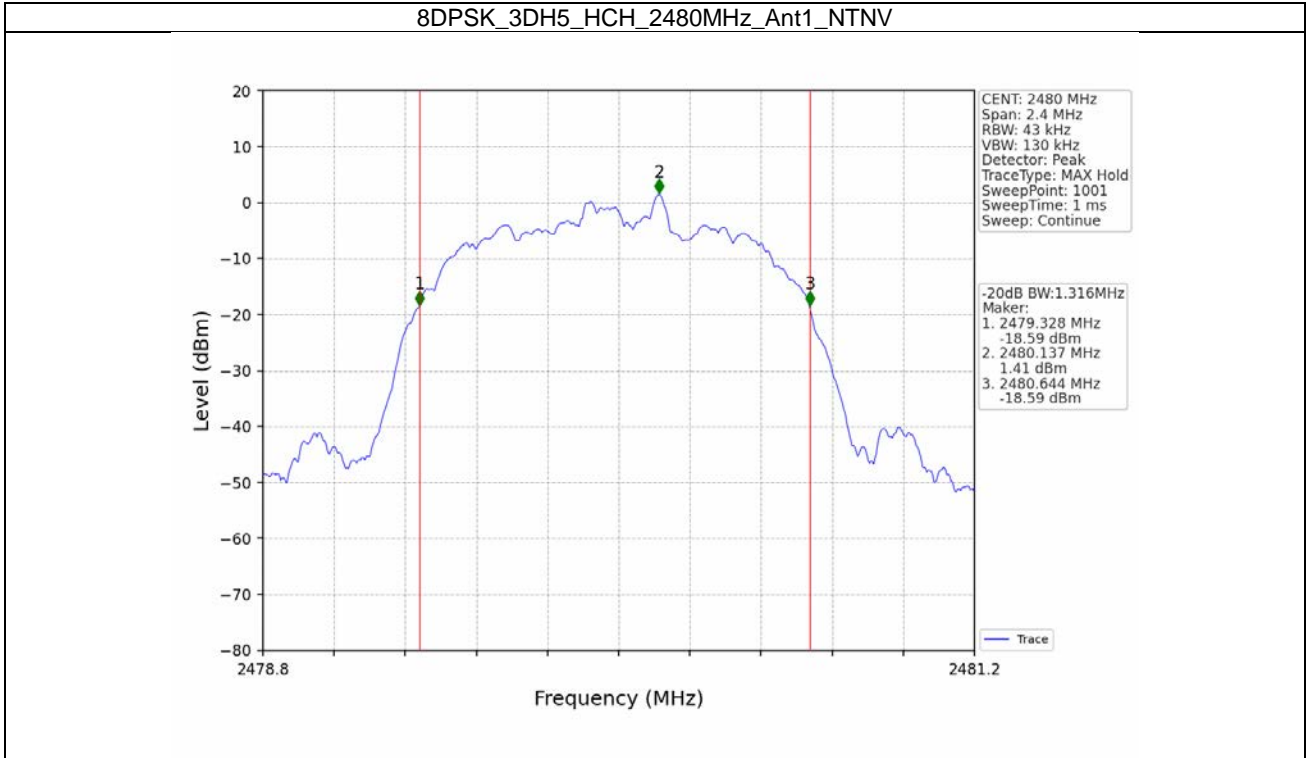


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





## 2. Maximum Conducted Output Power

### 2.1 Test Result

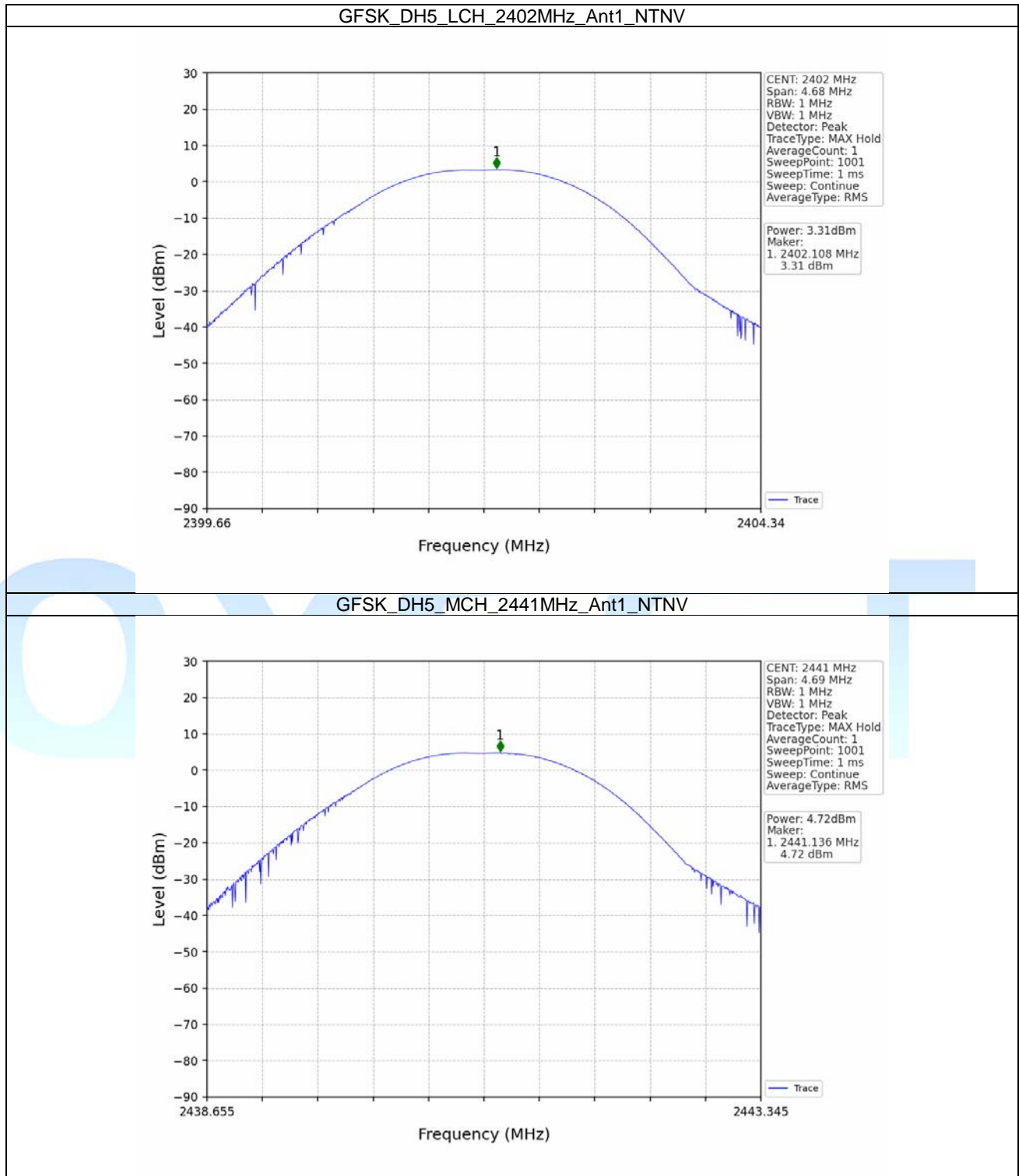
#### 2.1.1 Power

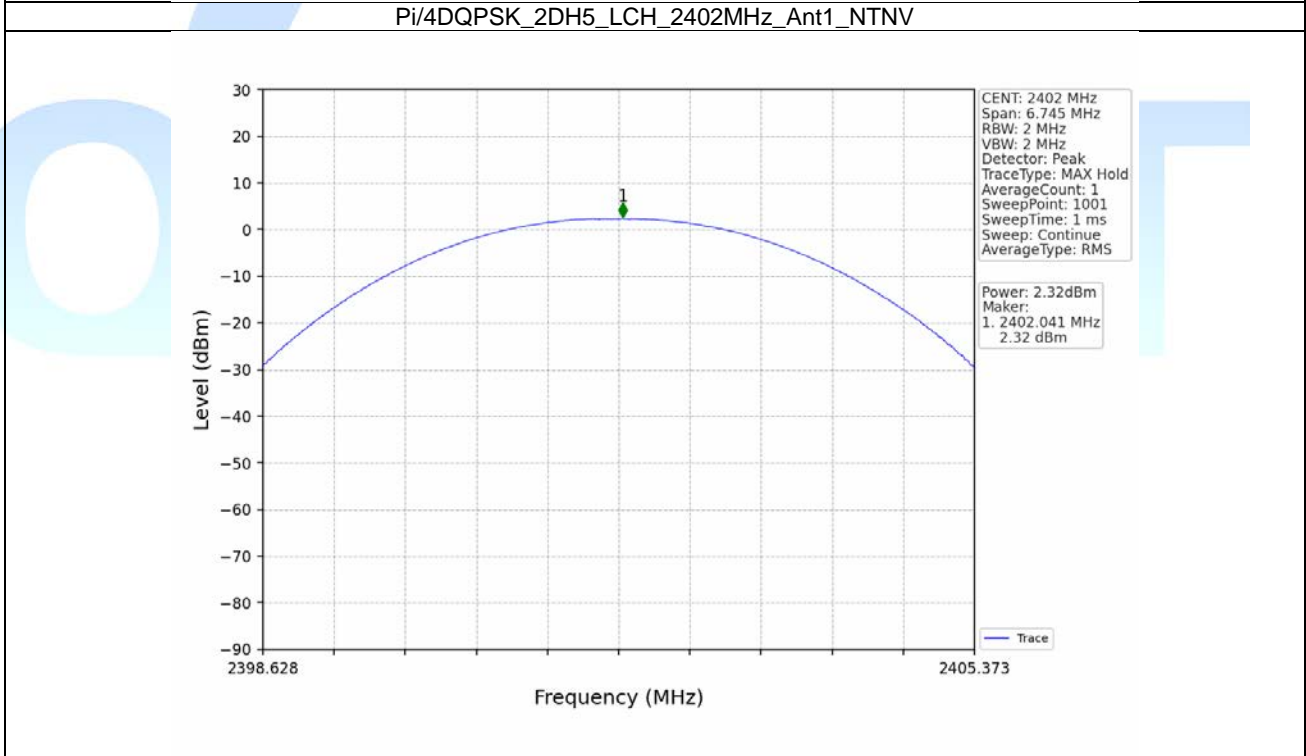
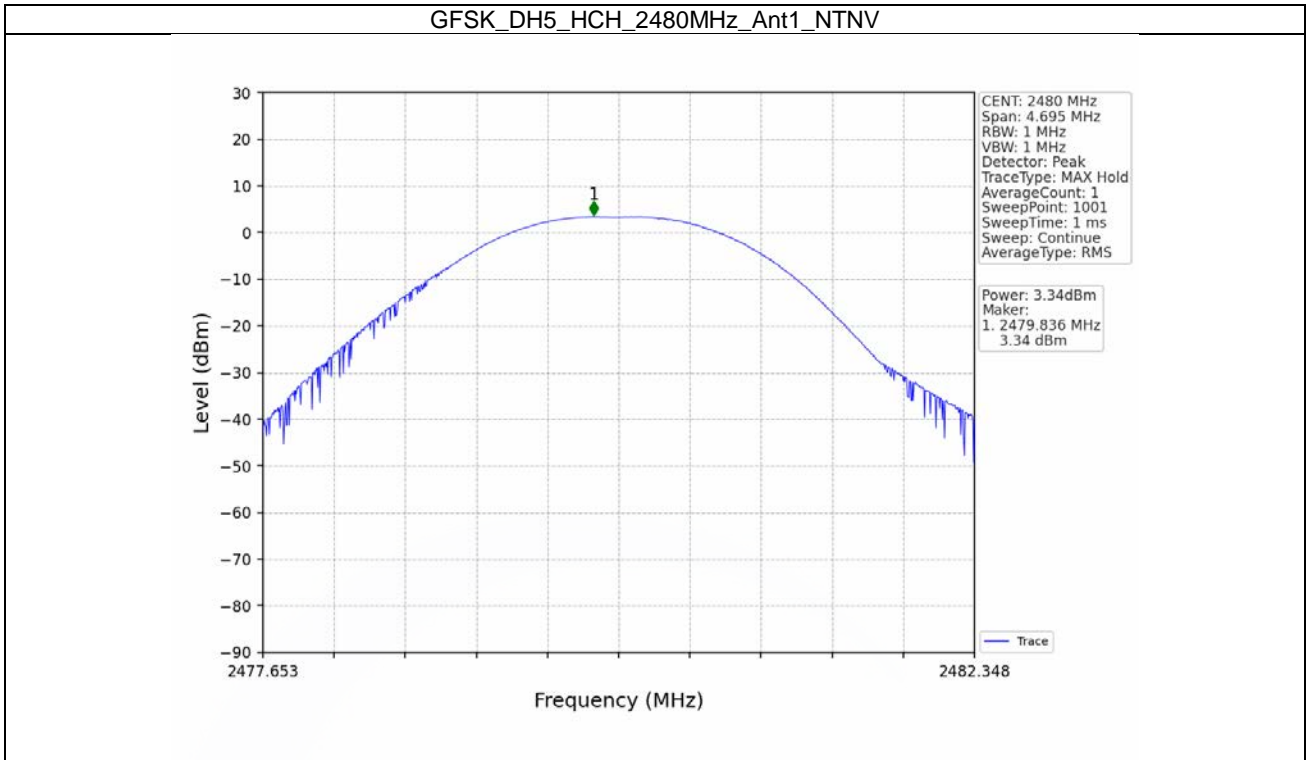
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	3.31	$\leq 20.97$	Pass
		2441	DH5	4.72	$\leq 20.97$	Pass
		2480	DH5	3.34	$\leq 20.97$	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.32	$\leq 20.97$	Pass
		2441	2DH5	3.07	$\leq 20.97$	Pass
		2480	2DH5	4.35	$\leq 20.97$	Pass
8DPSK	SISO	2402	3DH5	2.82	$\leq 20.97$	Pass
		2441	3DH5	3.48	$\leq 20.97$	Pass
		2480	3DH5	4.78	$\leq 20.97$	Pass

Note1: Antenna Gain: Ant1: 2.08dBi;

## 2.2 Test Graph

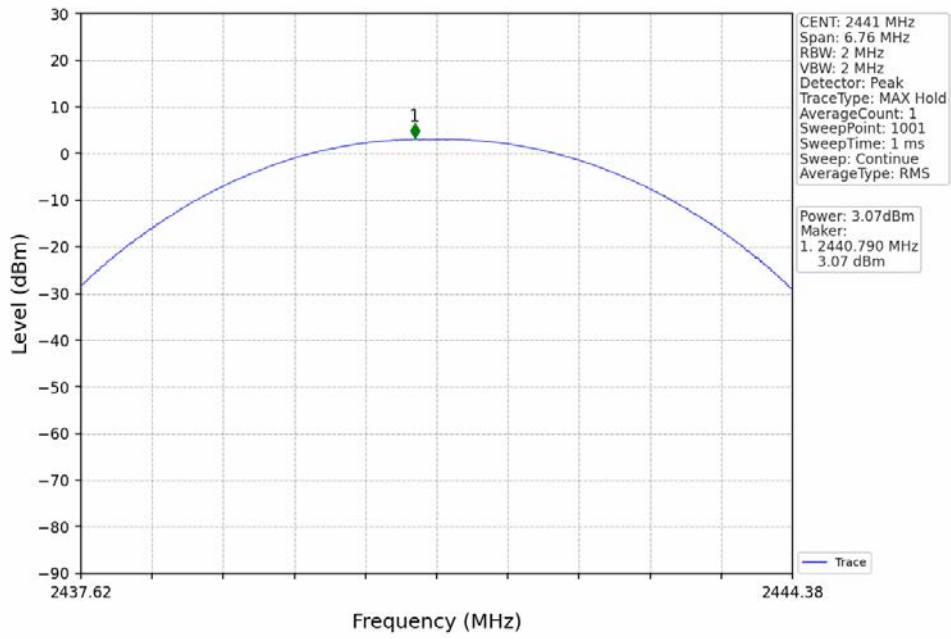
### 2.2.1 Power



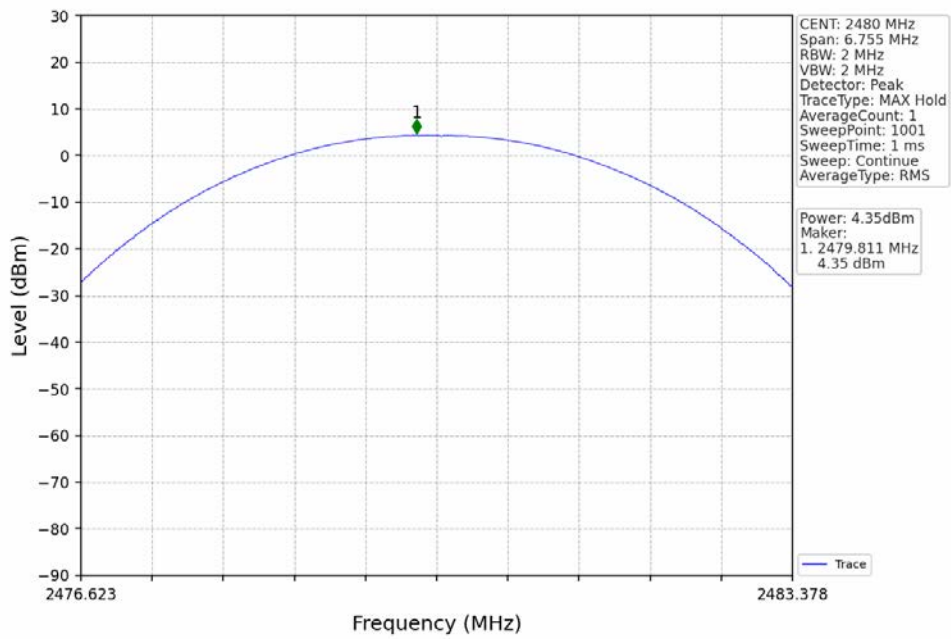




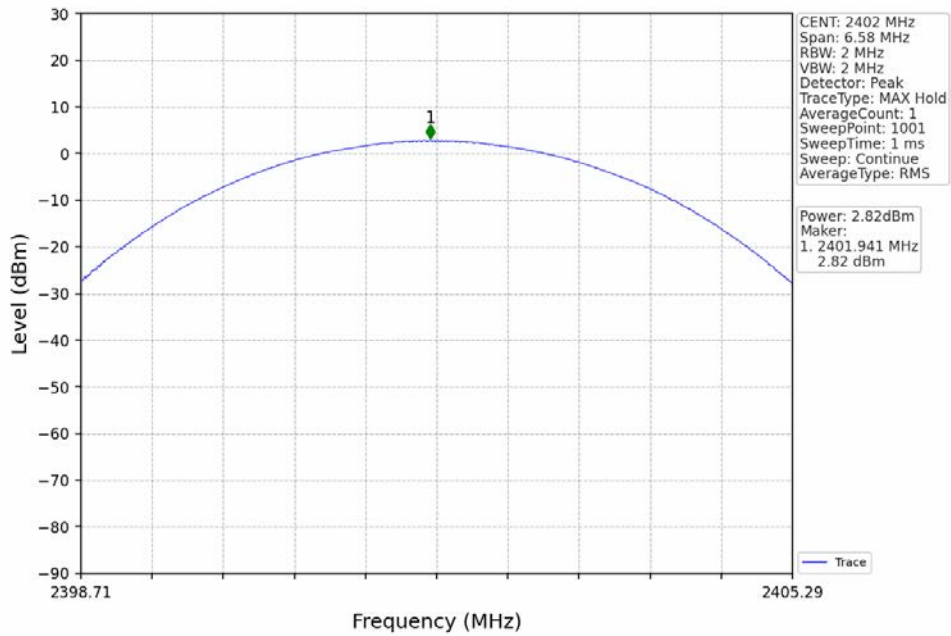
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



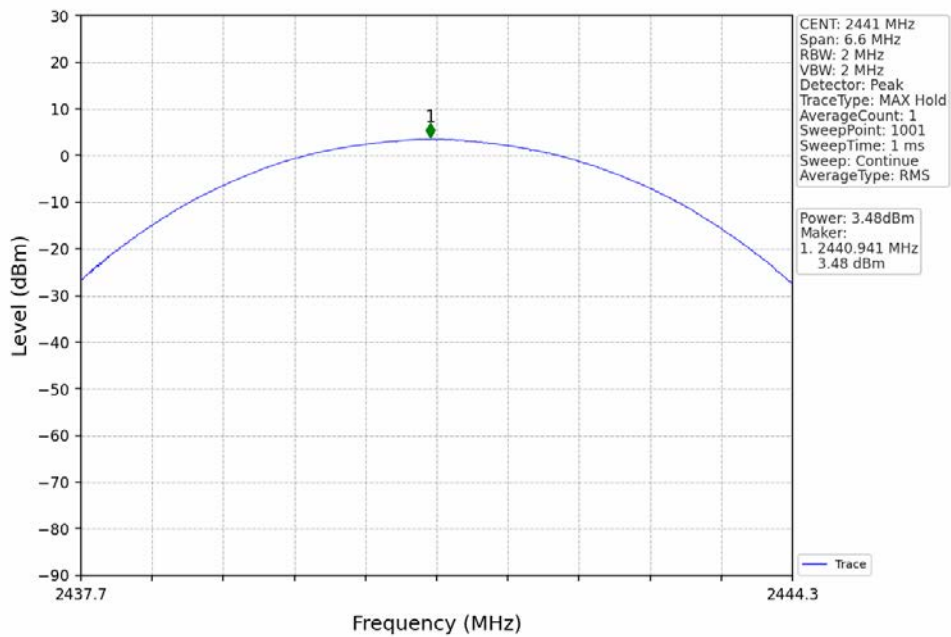
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

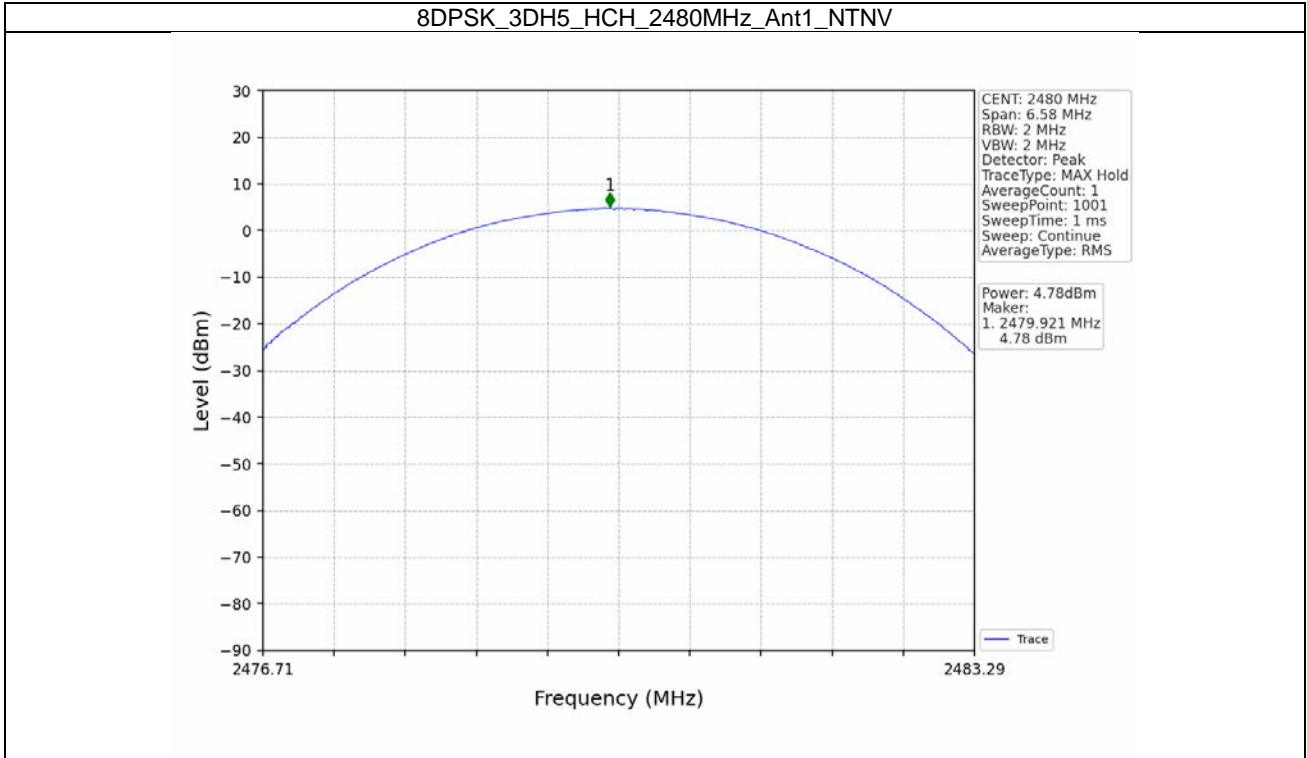


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





### 3. Carrier Frequency Separation

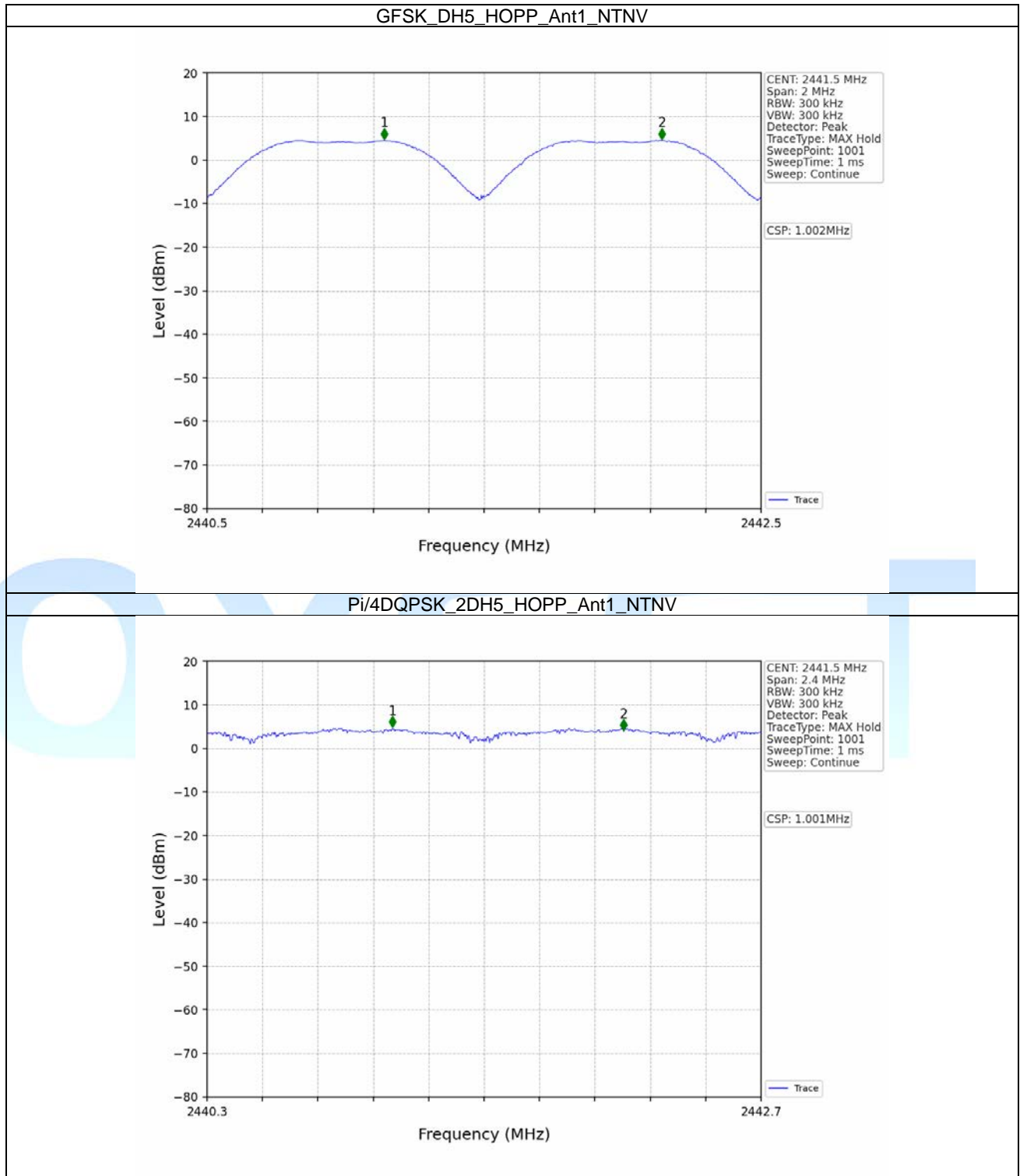
#### 3.1 Test Result

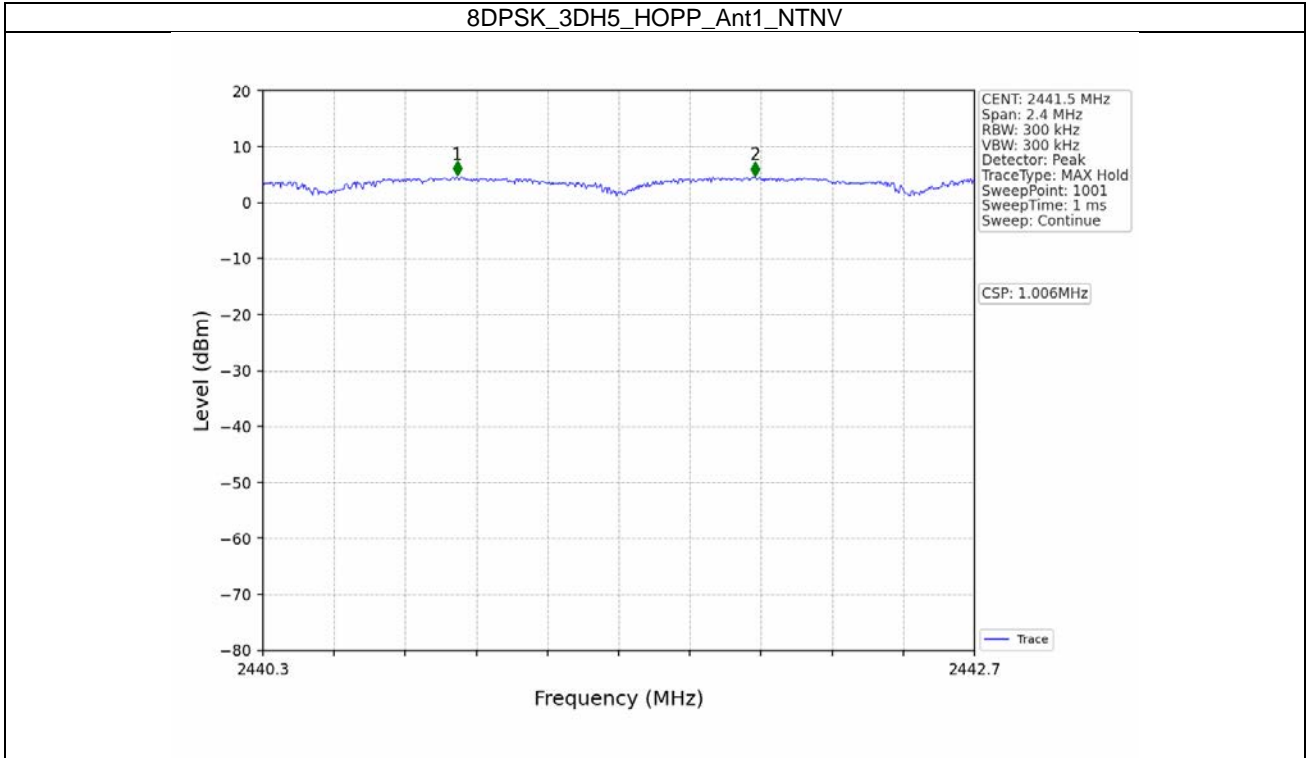
##### 3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	0.939	$\geq 0.939$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.352	$\geq 0.901$	Pass
8DPSK	SISO	HOPP	3DH5	1.006	1.320	$\geq 0.88$	Pass

### 3.2 Test Graph

#### 3.2.1 Ant1







## 4. Number of Hopping Frequencies

### 4.1 Test Result

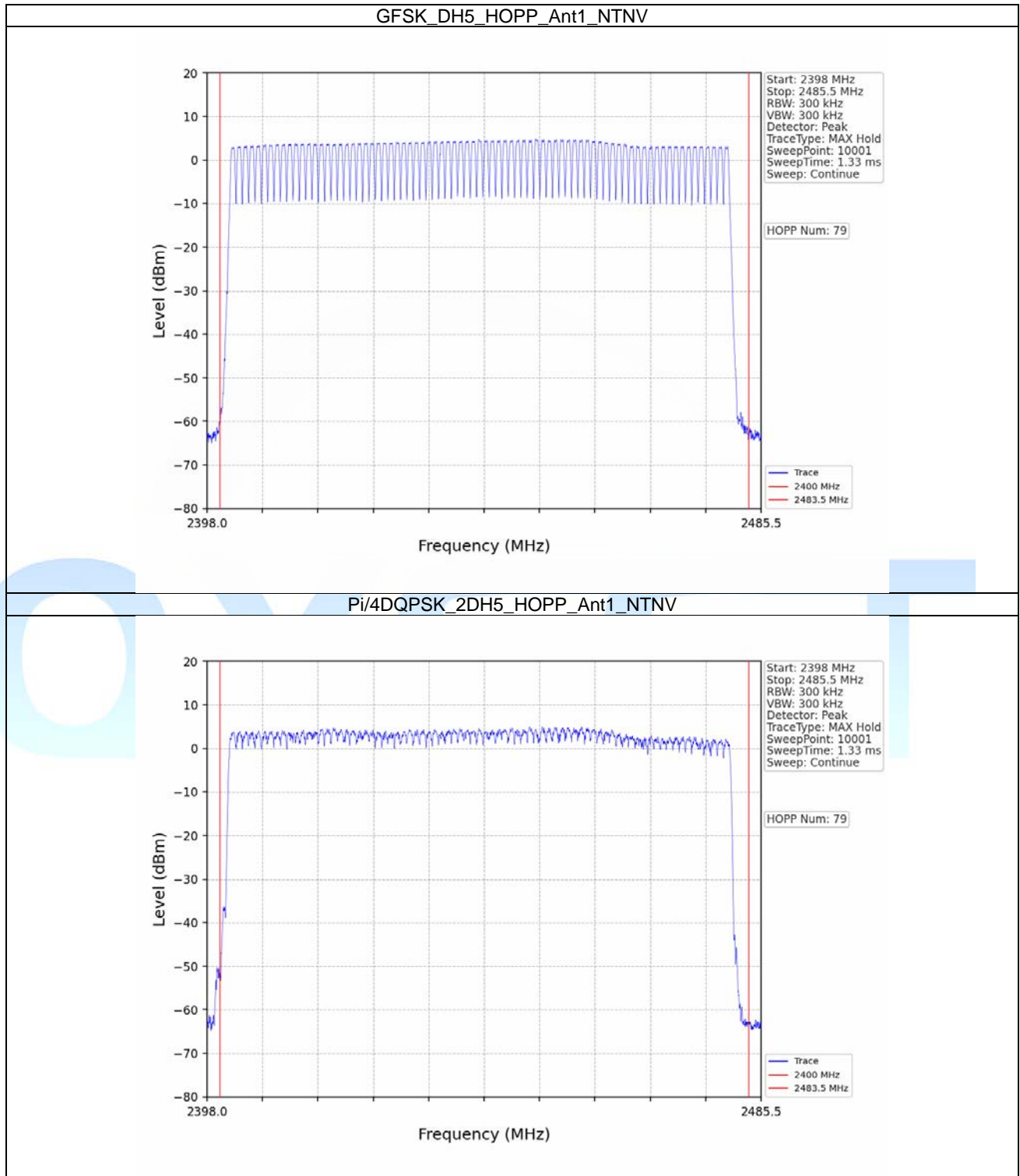
#### 4.1.1 HoppNum

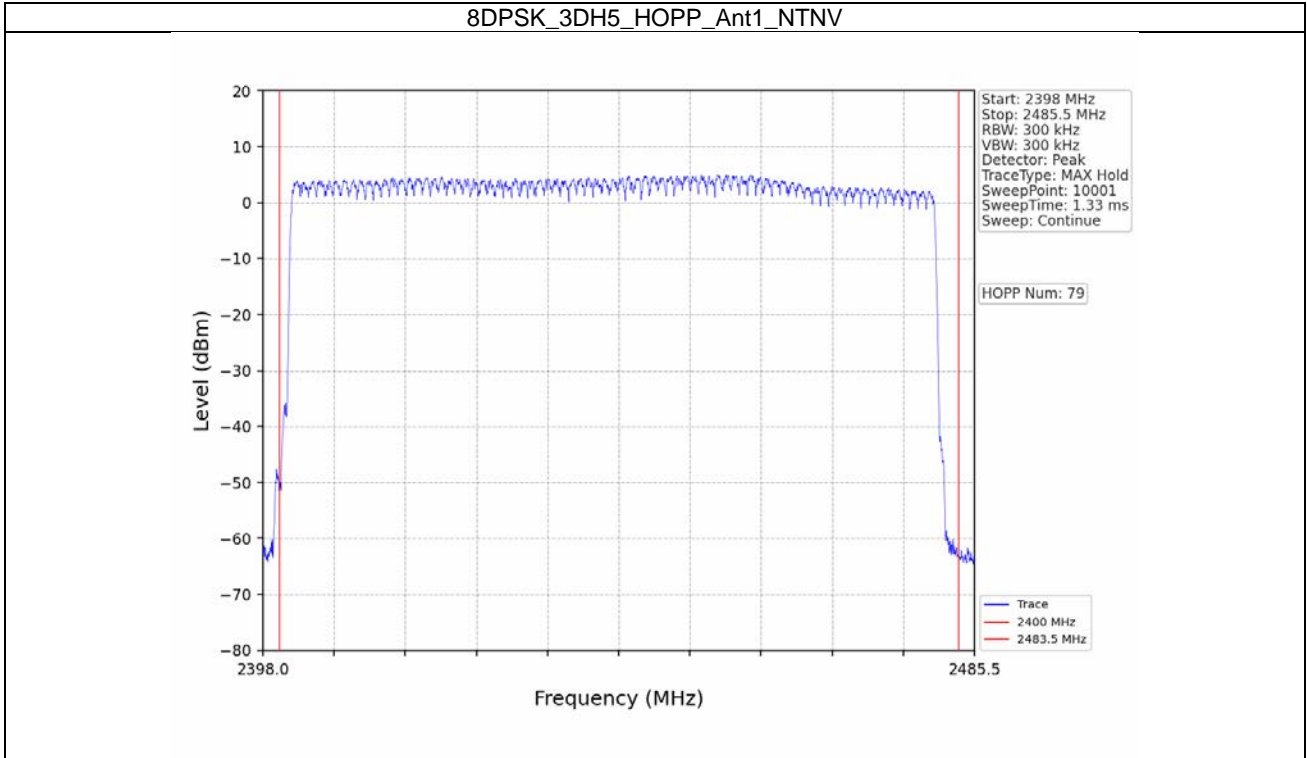
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	$\geq 15$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	$\geq 15$	Pass
8DPSK	SISO	HOPP	3DH5	79	$\geq 15$	Pass



## 4.2 Test Graph

### 4.2.1 HoppNum





## 5. Time of Occupancy (Dwell Time)

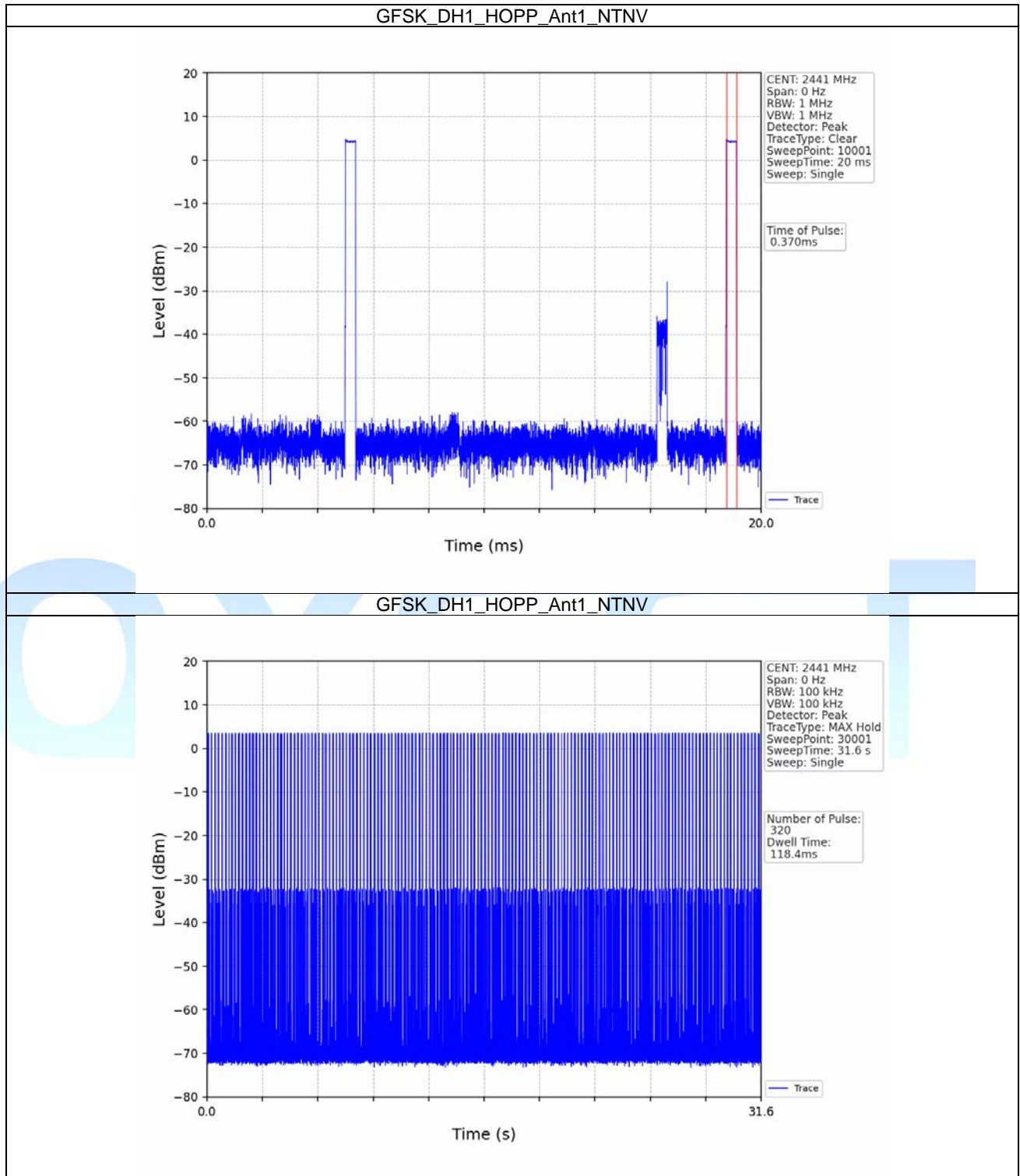
### 5.1 Test Result

#### 5.1.1 Ant1

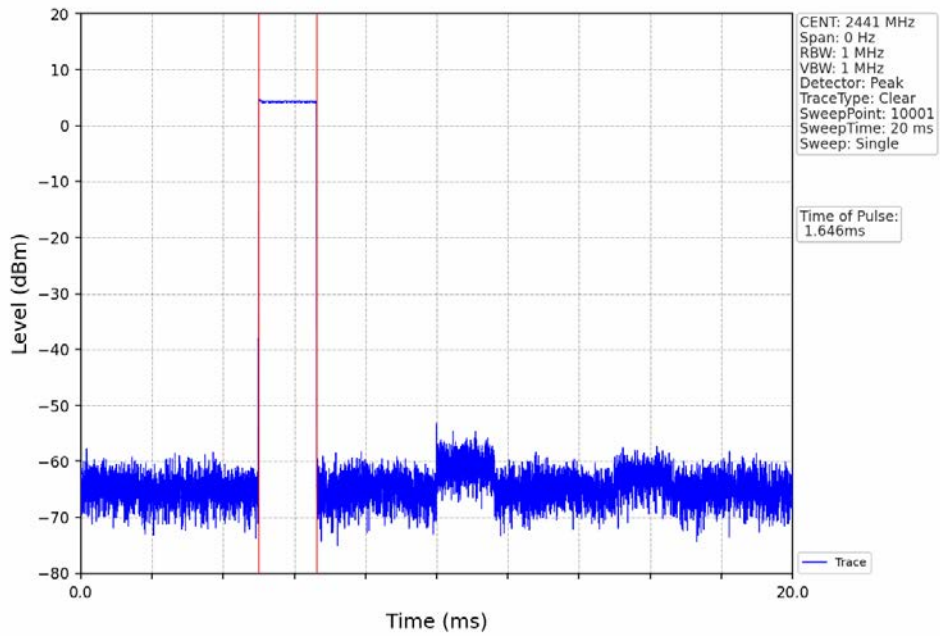
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.370	31.600	320	118.400	<=400	Pass
			DH3	1.646	31.600	158	260.068	<=400	Pass
			DH5	2.896	31.600	99	286.704	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.650	31.600	148	244.200	<=400	Pass
			2DH5	2.896	31.600	100	289.600	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.378	31.600	320	120.960	<=400	Pass
			3DH3	1.630	31.600	164	267.320	<=400	Pass
			3DH5	2.900	31.600	112	324.800	<=400	Pass

## 5.2 Test Graph

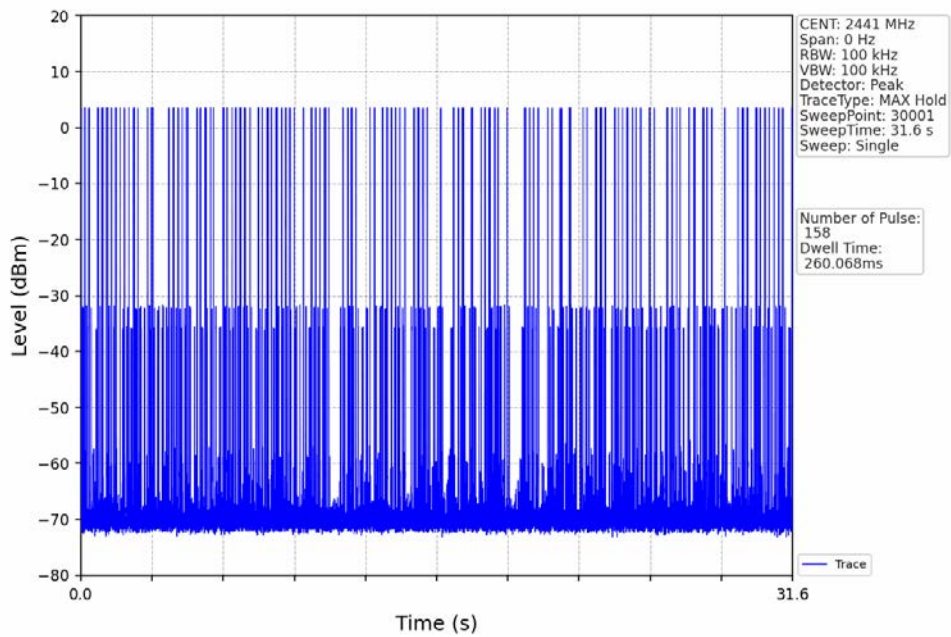
### 5.2.1 Ant1



GFSK\_DH3\_HOPP\_Ant1\_NTNV

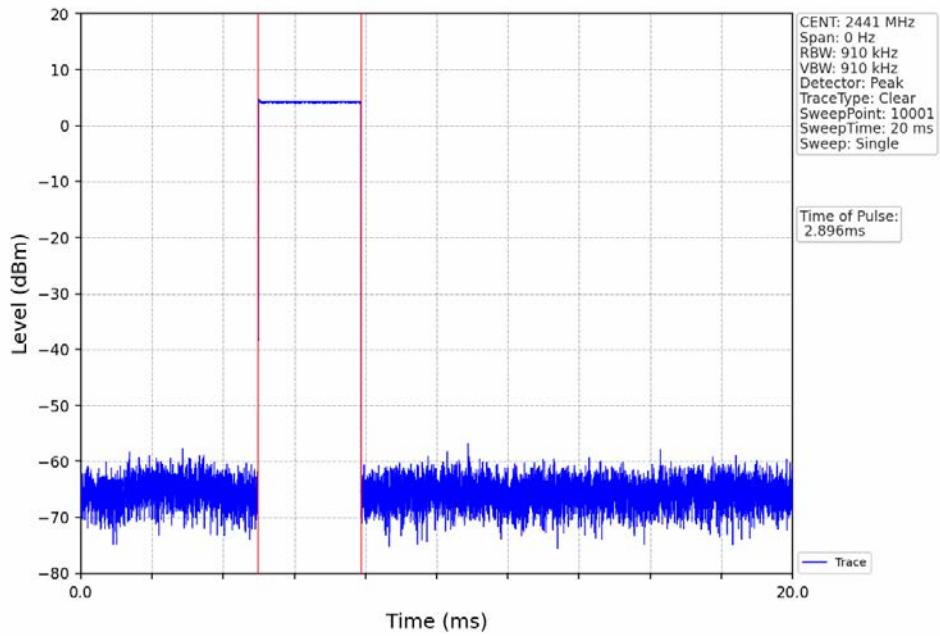


GFSK\_DH3\_HOPP\_Ant1\_NTNV

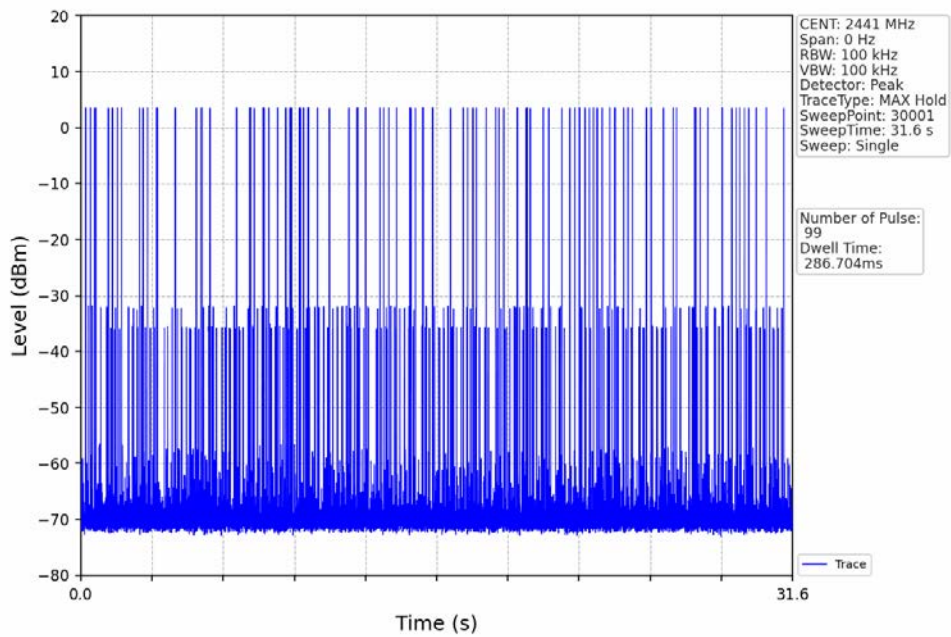


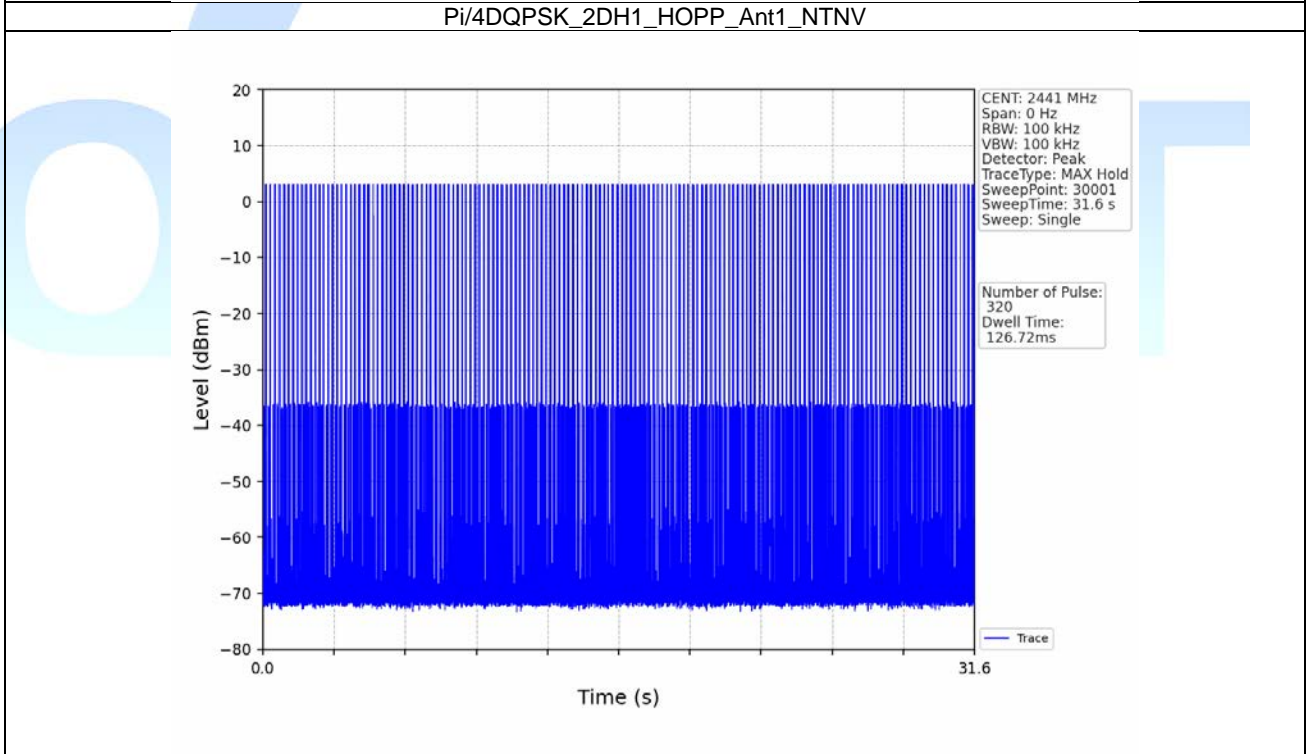
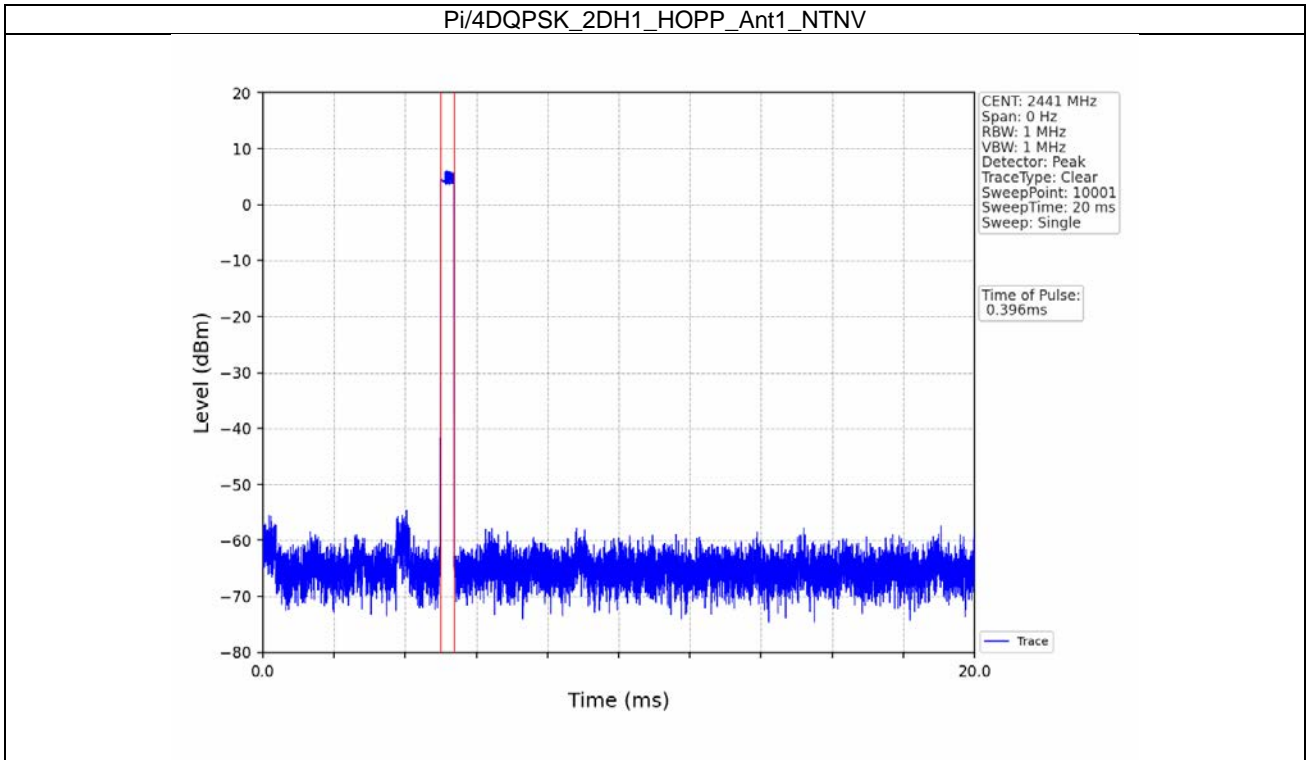


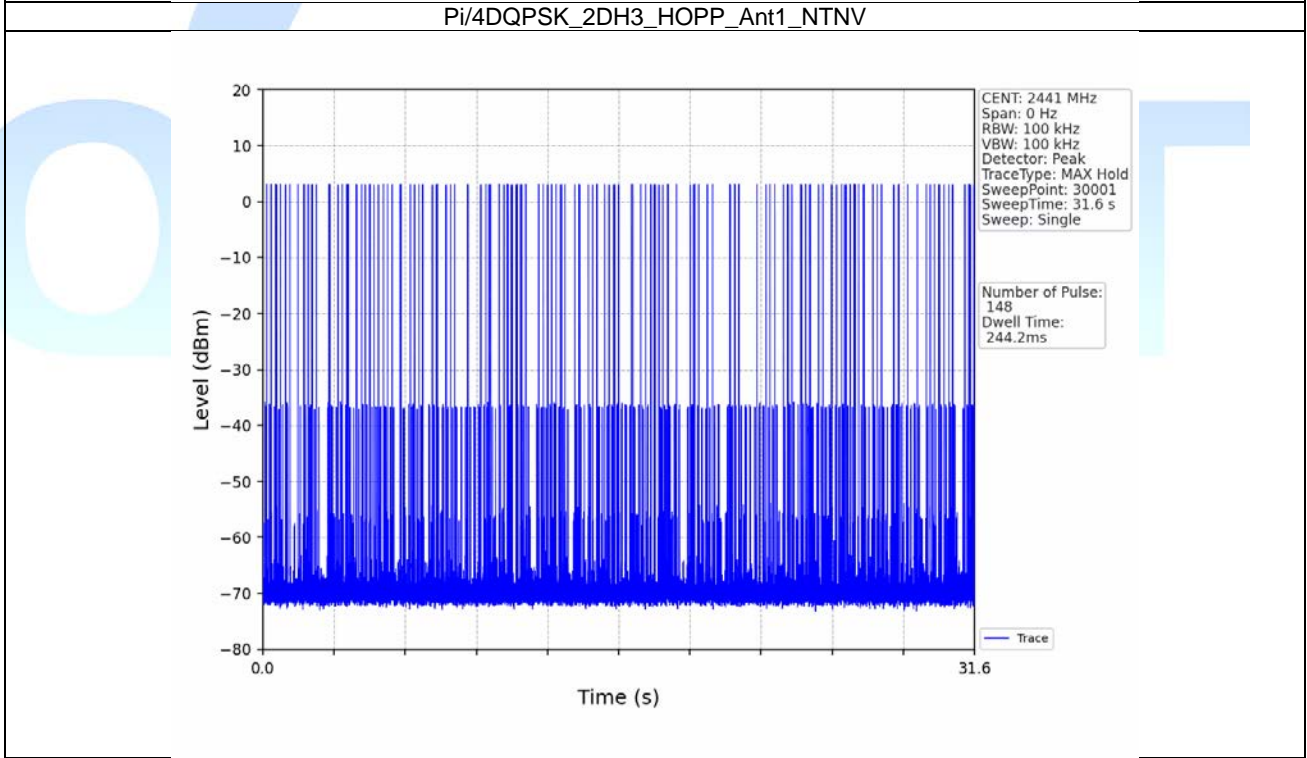
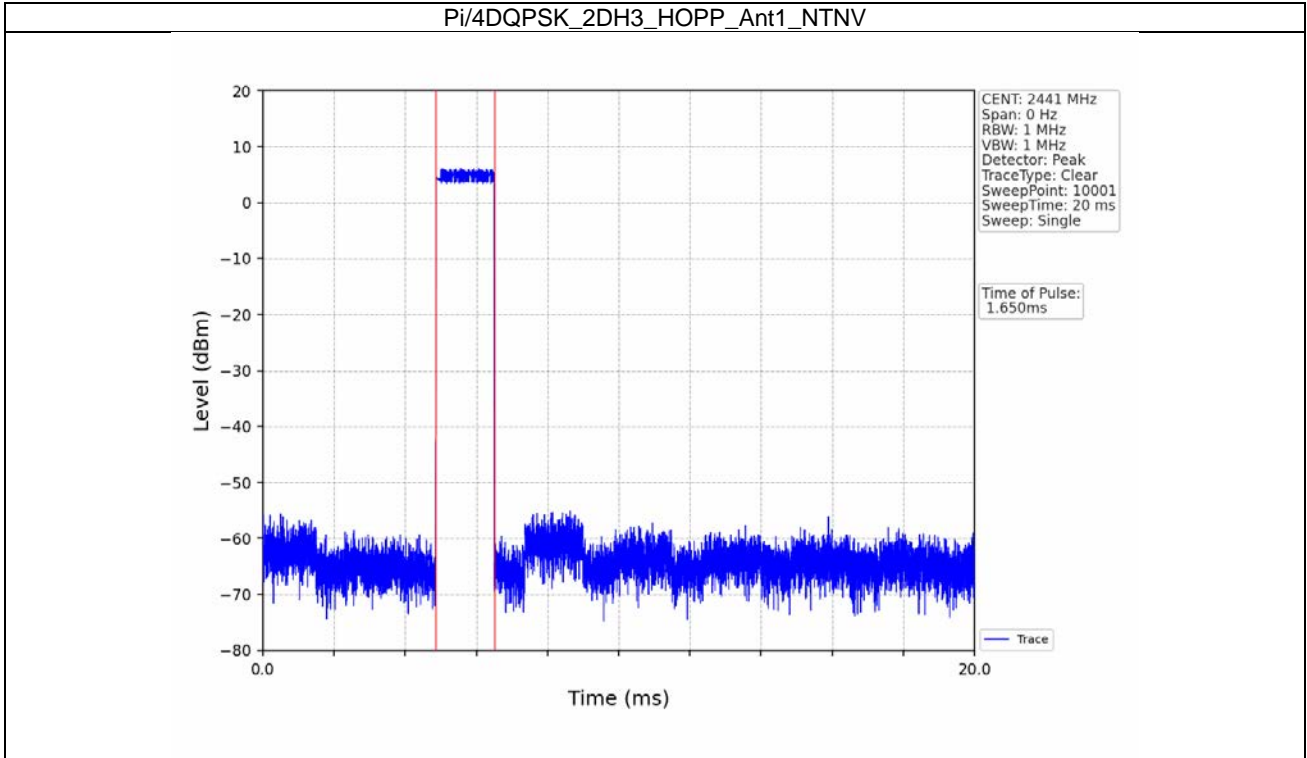
GFSK\_DH5\_HOPP\_Ant1\_NTNV



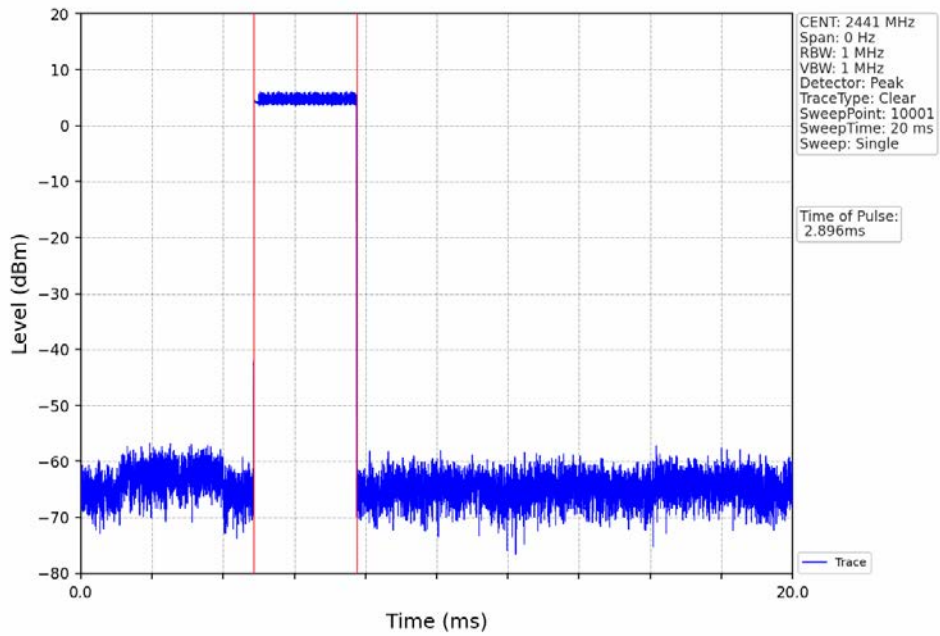
GFSK\_DH5\_HOPP\_Ant1\_NTNV



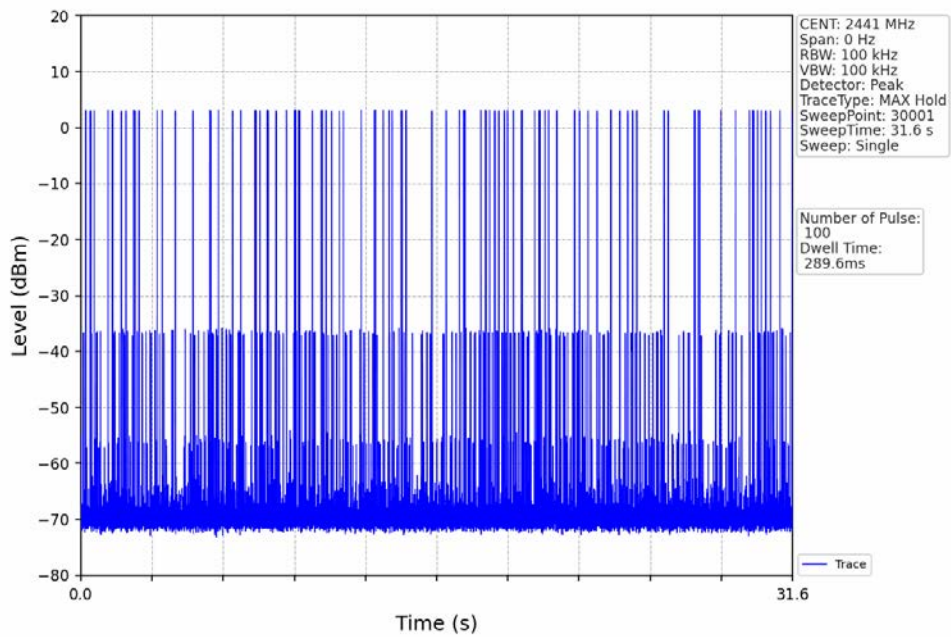




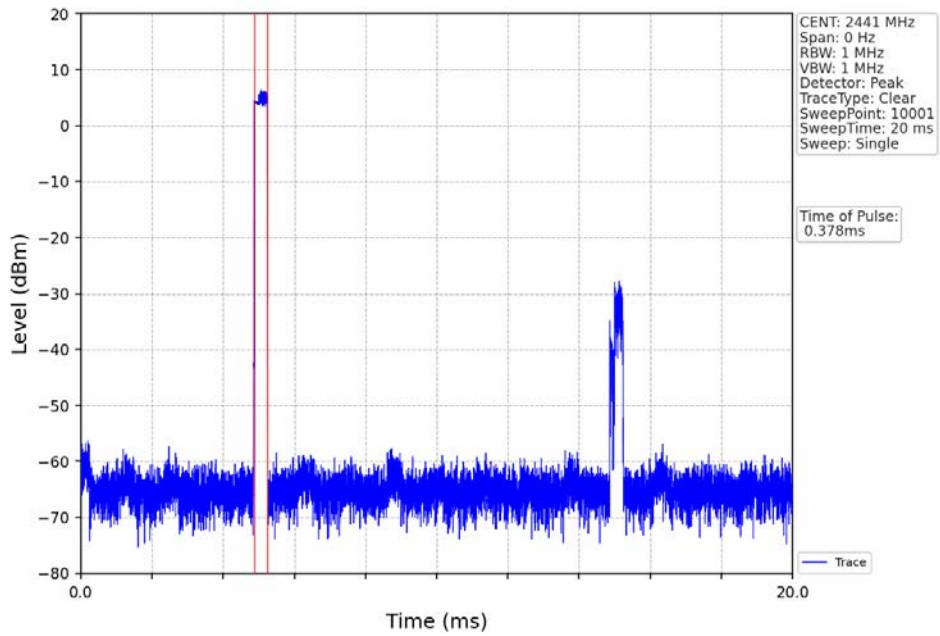
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



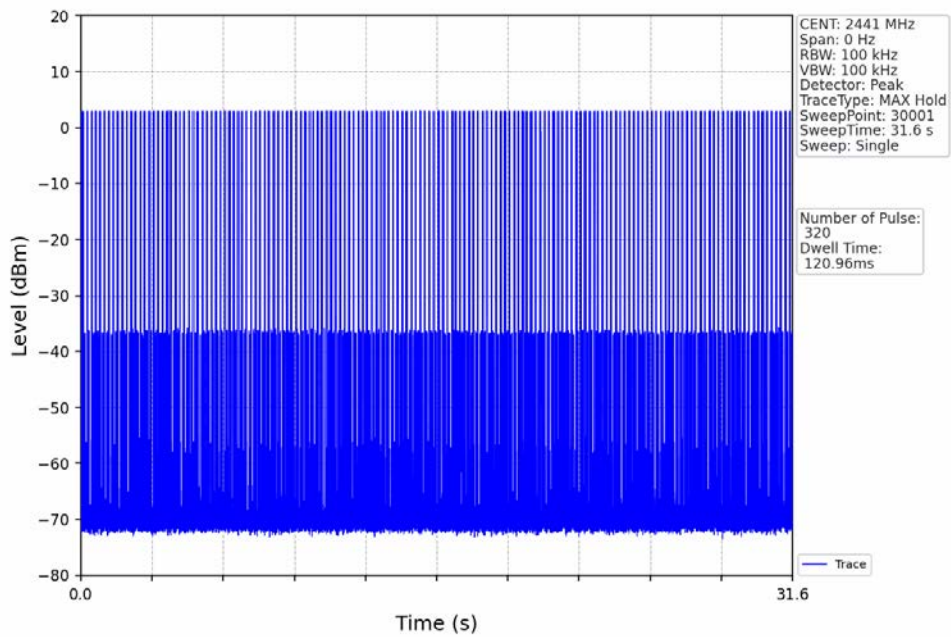
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

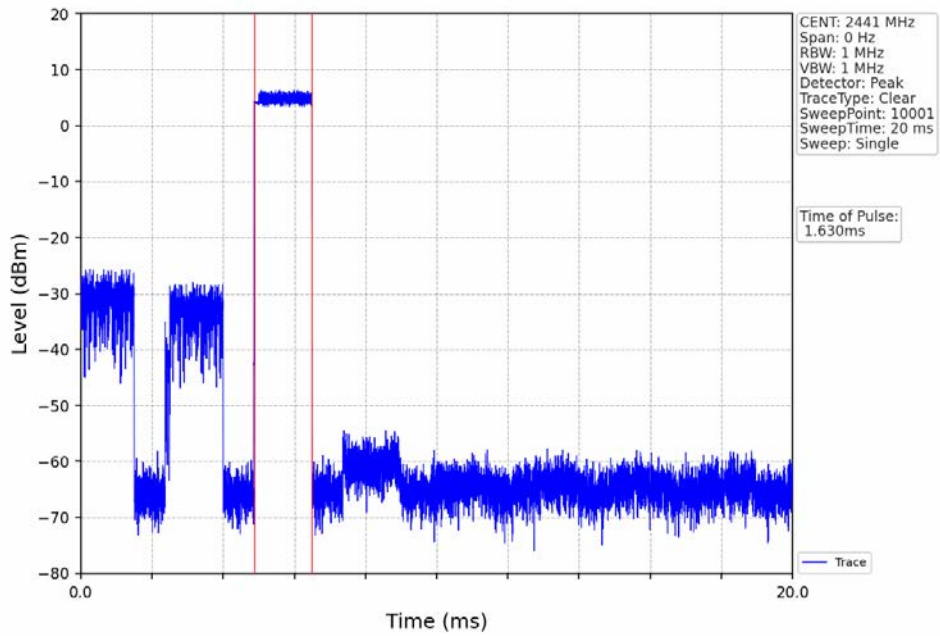


8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

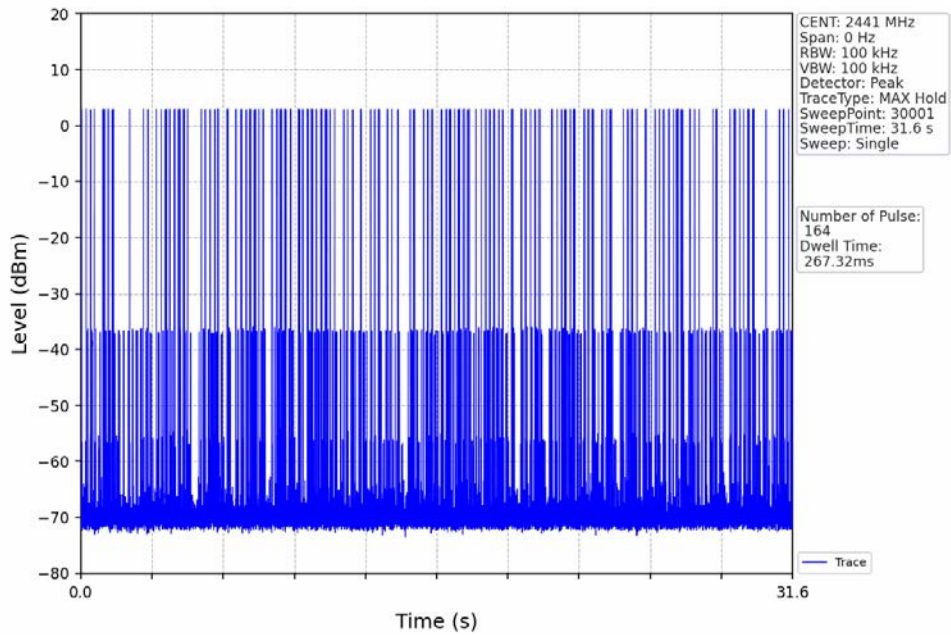




8DPSK\_3DH3\_HOPP\_Ant1\_NTNV

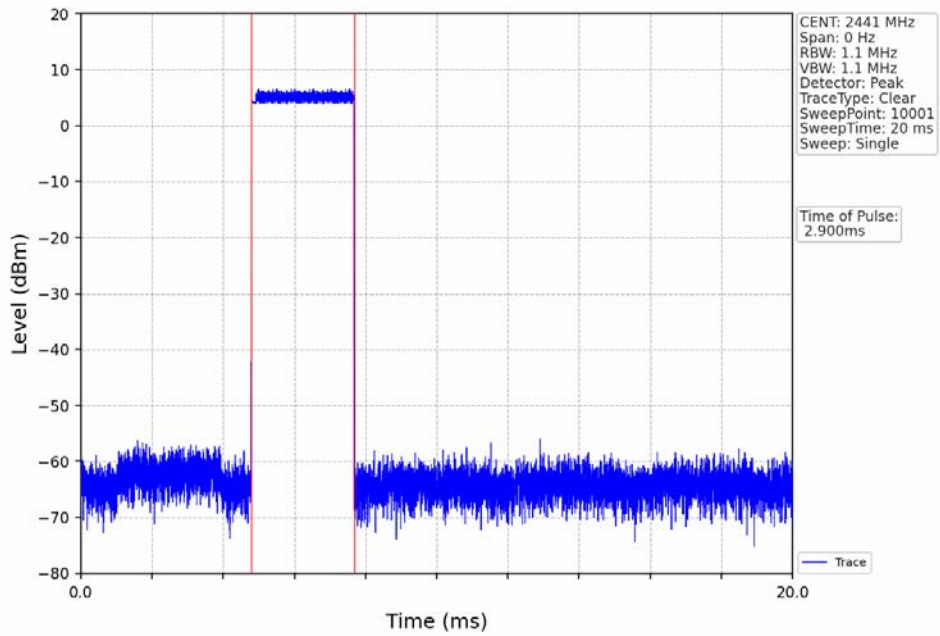


8DPSK\_3DH3\_HOPP\_Ant1\_NTNV

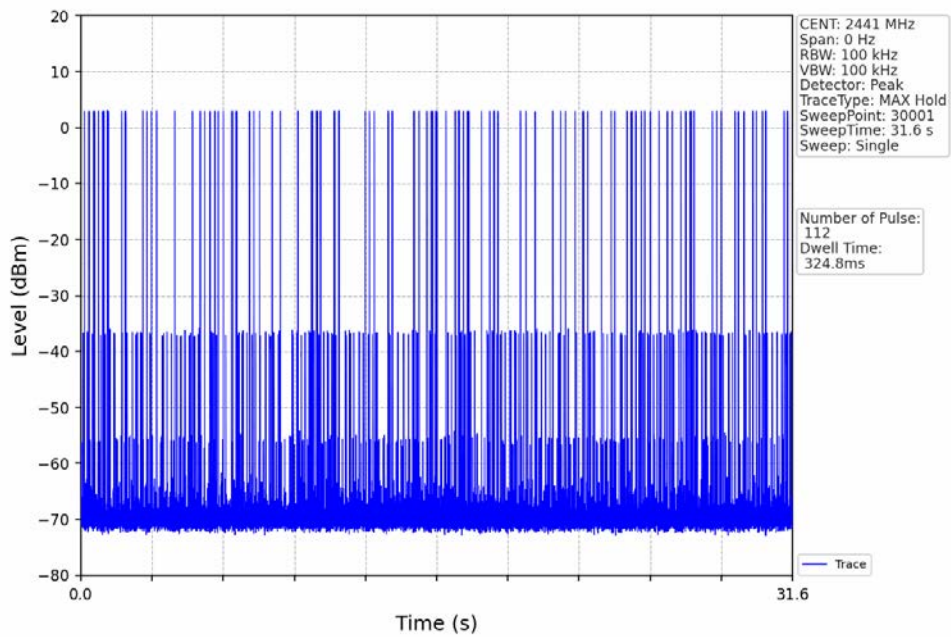




8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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

### 6.1 Test Result

#### 6.1.1 Ref

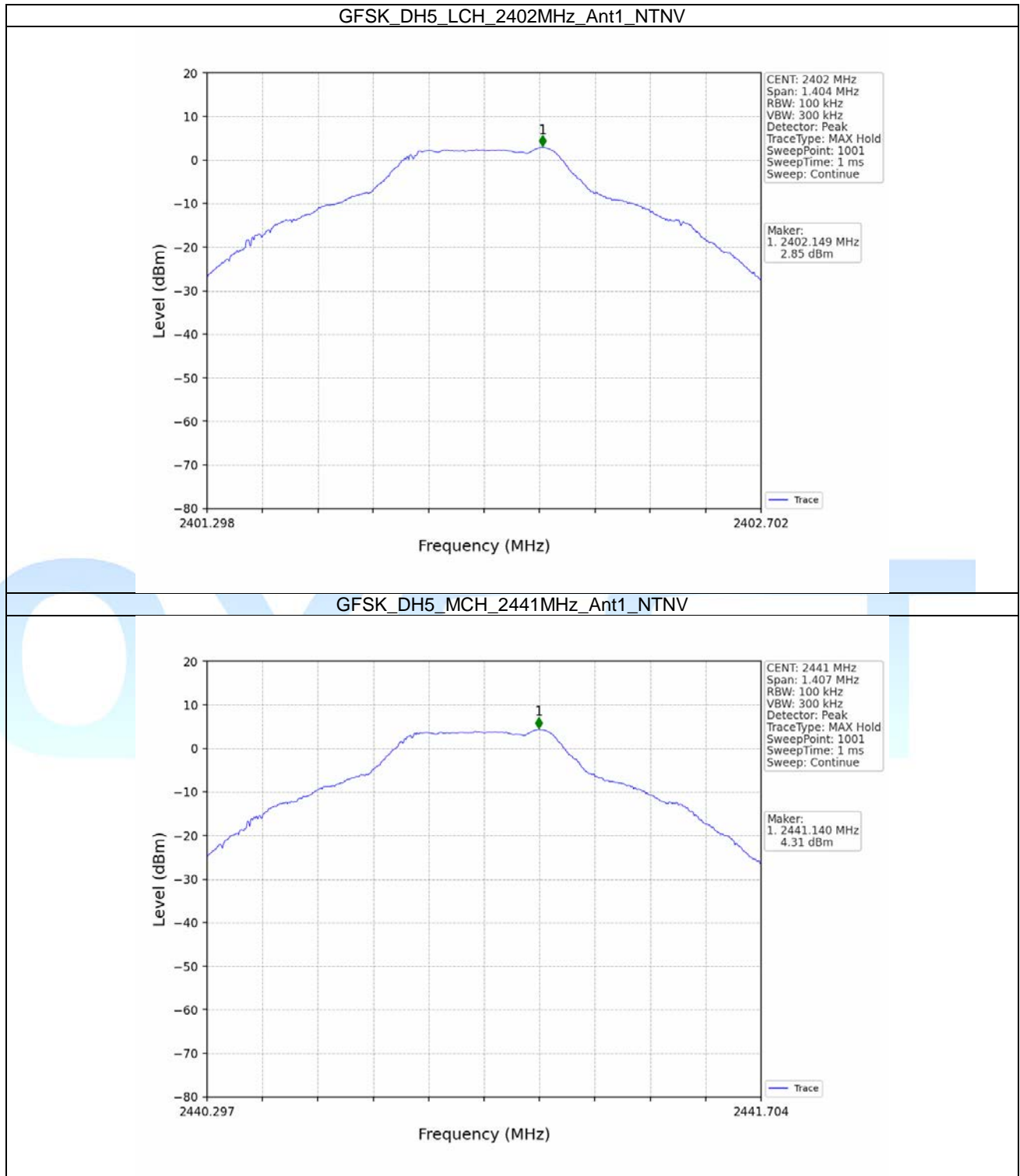
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.85
		2441	DH5	1	4.31
		2480	DH5	1	2.96
Pi/4DQPSK	SISO	2402	2DH5	1	-0.51
		2441	2DH5	1	0.23
		2480	2DH5	1	1.63
8DPSK	SISO	2402	3DH5	1	-0.11
		2441	3DH5	1	0.48
		2480	3DH5	1	1.76

#### 6.1.2 CSE

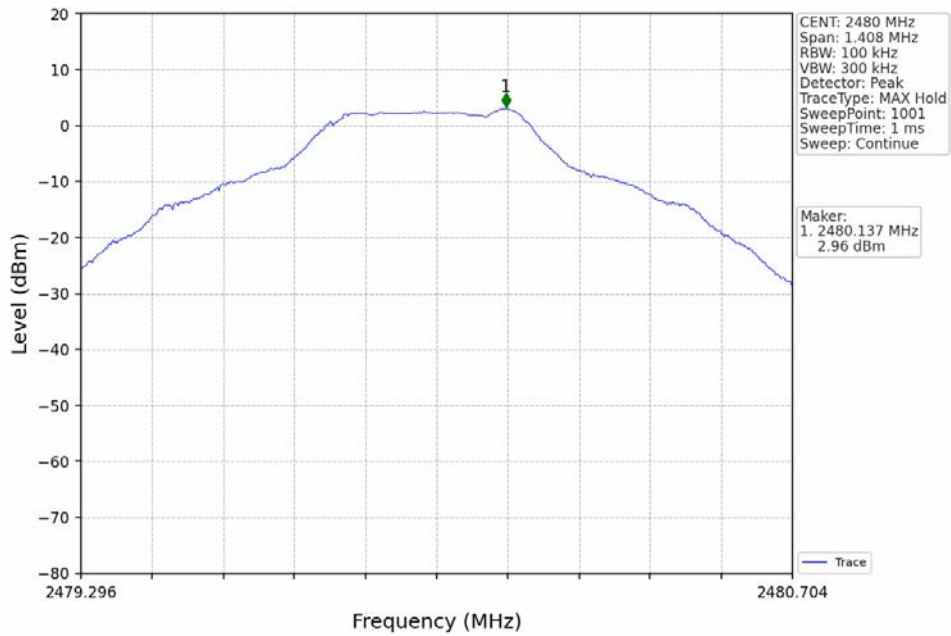
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.31	-15.69	Pass
		2441	DH5	1	4.31	-15.69	Pass
		2480	DH5	1	4.31	-15.69	Pass
		HOPP	DH5	1	4.31	-15.69	Pass
					4.31	-15.69	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.63	-18.37	Pass
		2441	2DH5	1	1.63	-18.37	Pass
		2480	2DH5	1	1.63	-18.37	Pass
		HOPP	2DH5	1	1.63	-18.37	Pass
					1.63	-18.37	Pass
8DPSK	SISO	2402	3DH5	1	1.76	-18.24	Pass
		2441	3DH5	1	1.76	-18.24	Pass
		2480	3DH5	1	1.76	-18.24	Pass
		HOPP	3DH5	1	1.76	-18.24	Pass
					1.76	-18.24	Pass

## 6.2 Test Graph

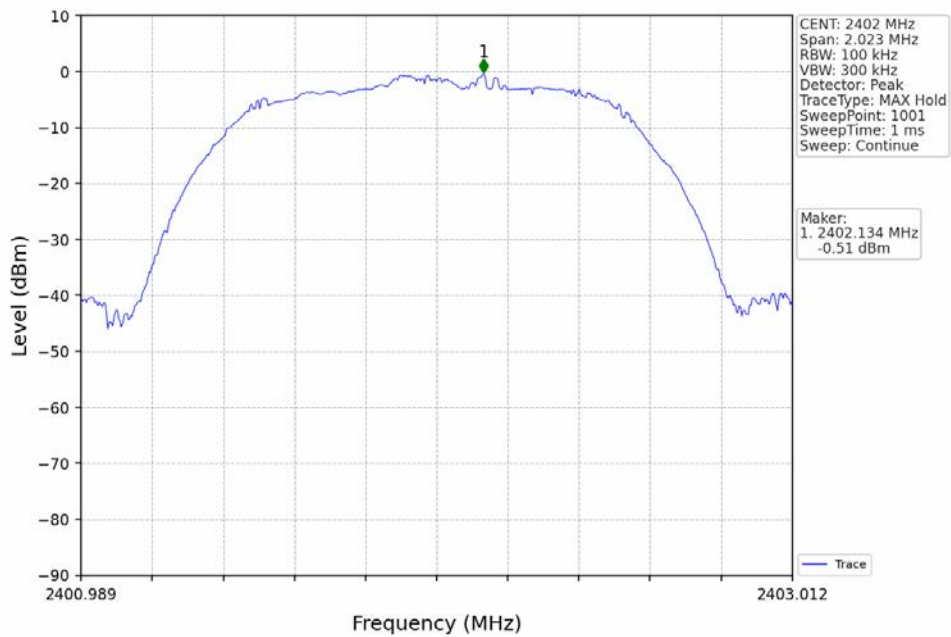
### 6.2.1 Ref



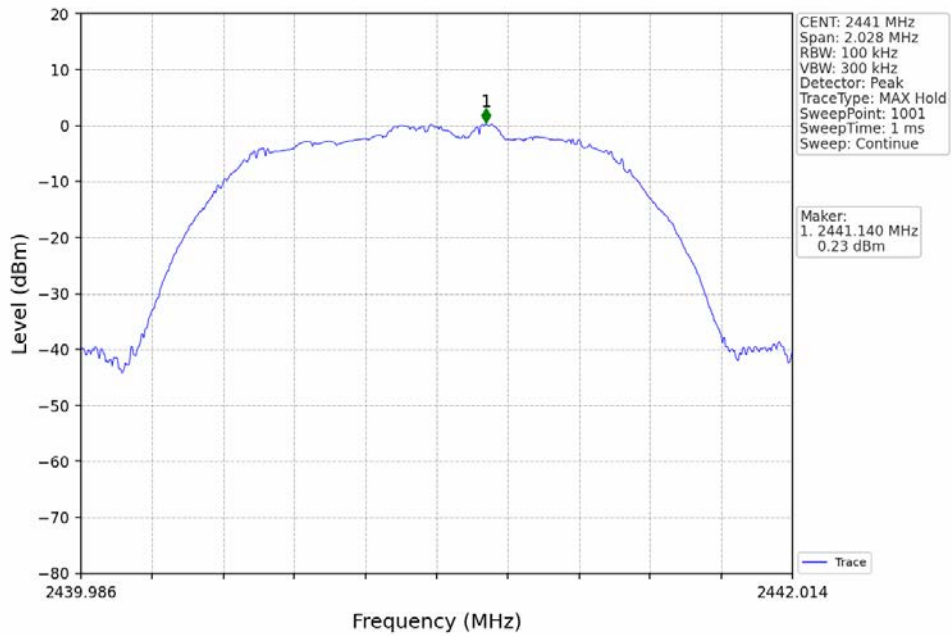
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



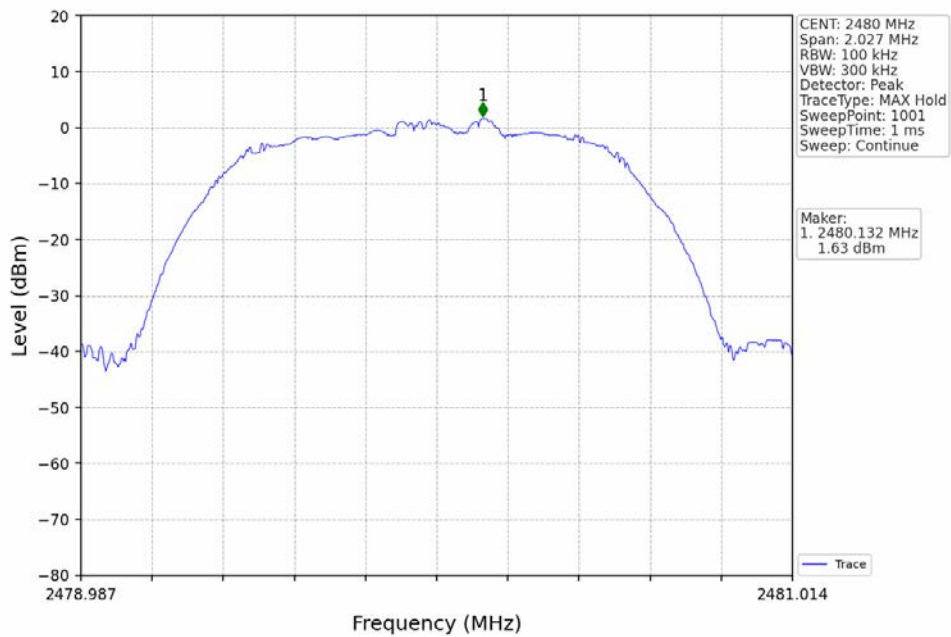
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



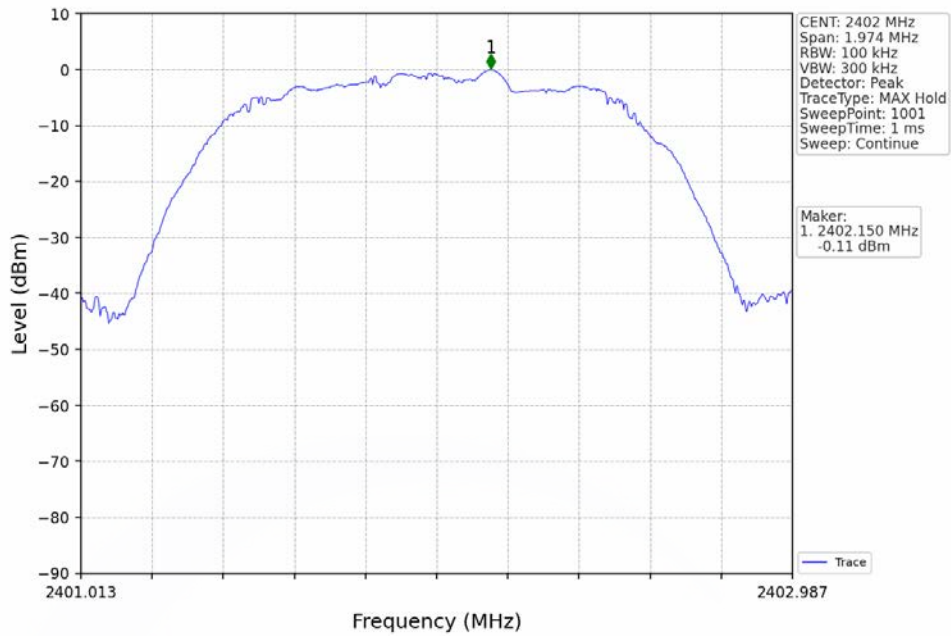
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



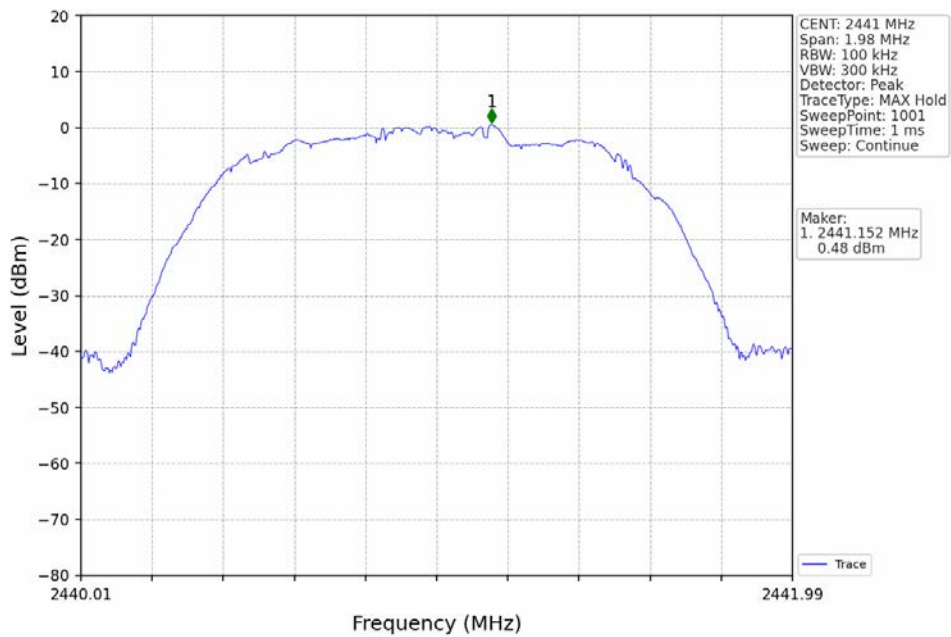
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

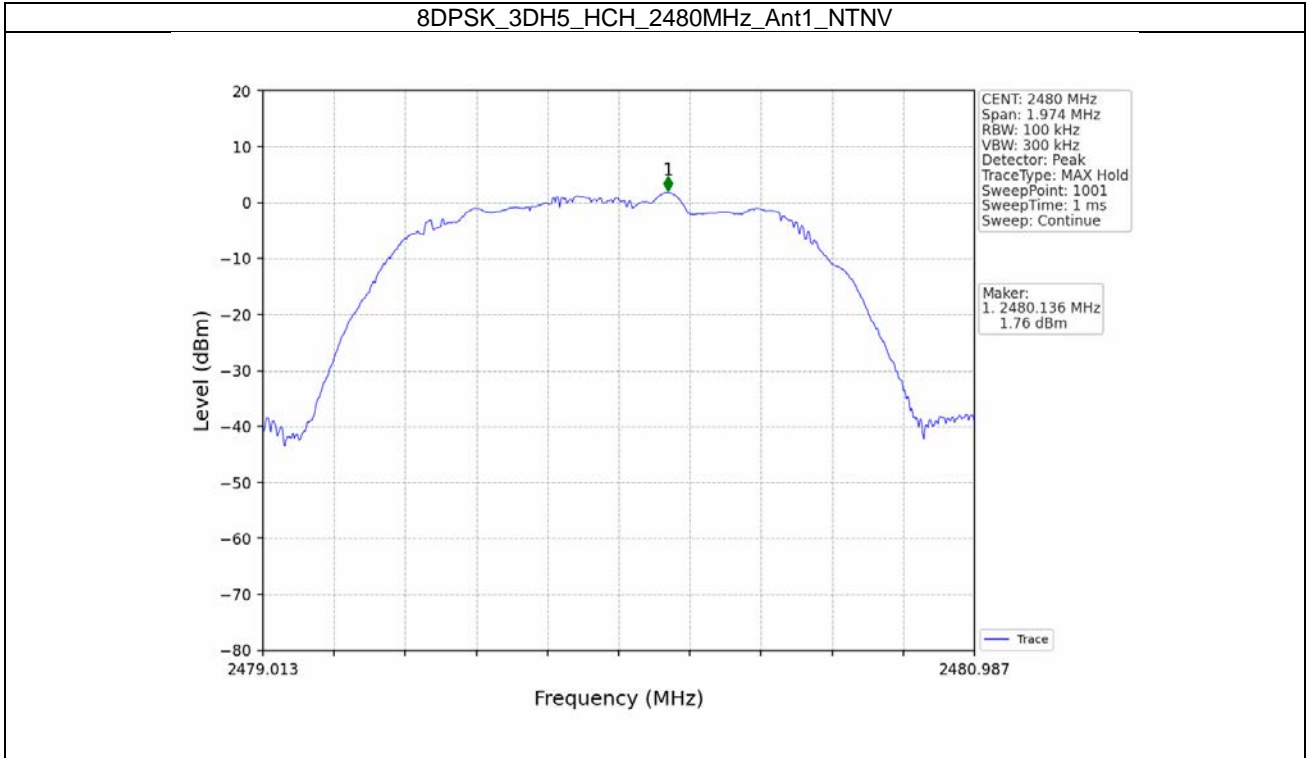


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



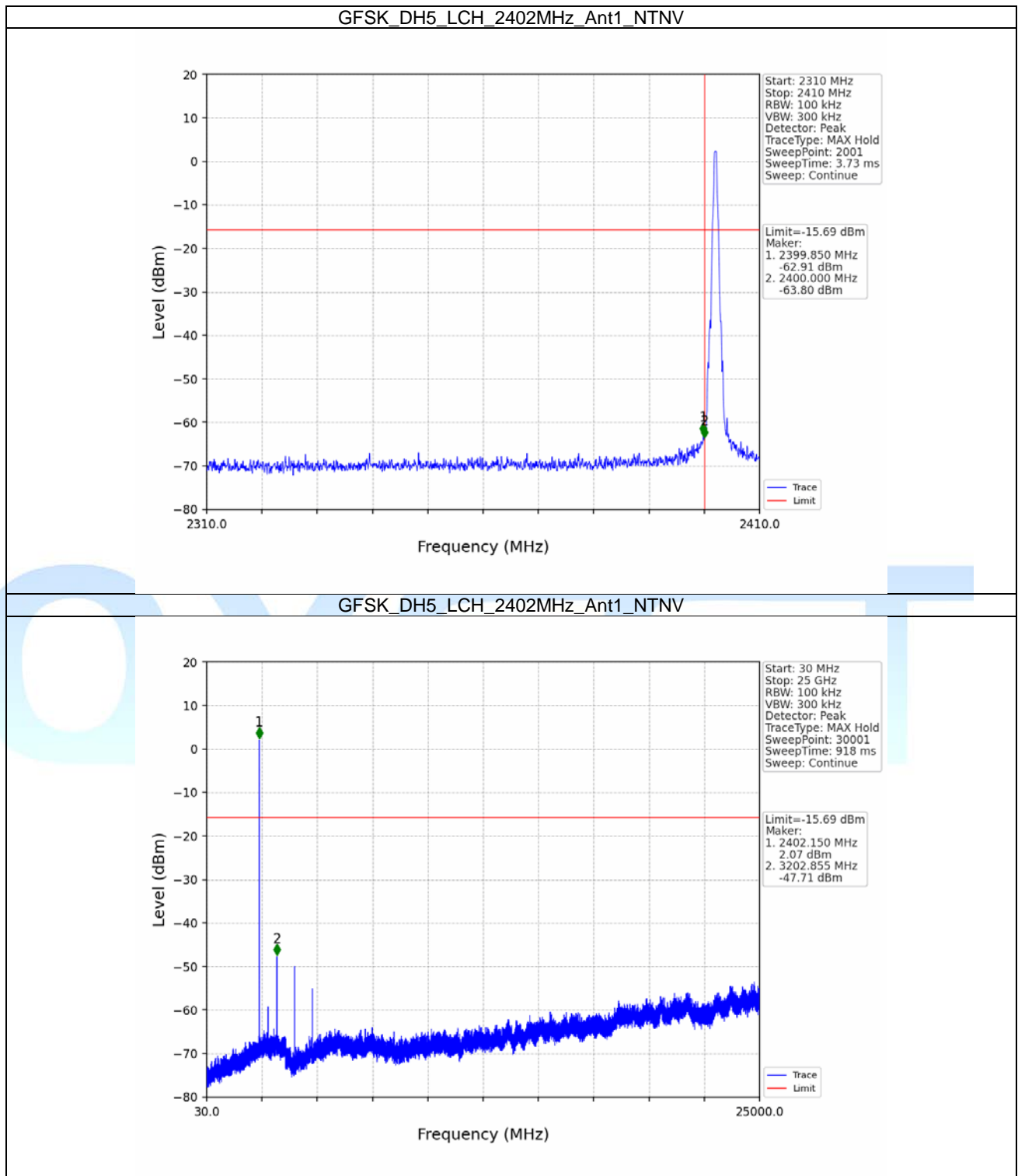
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



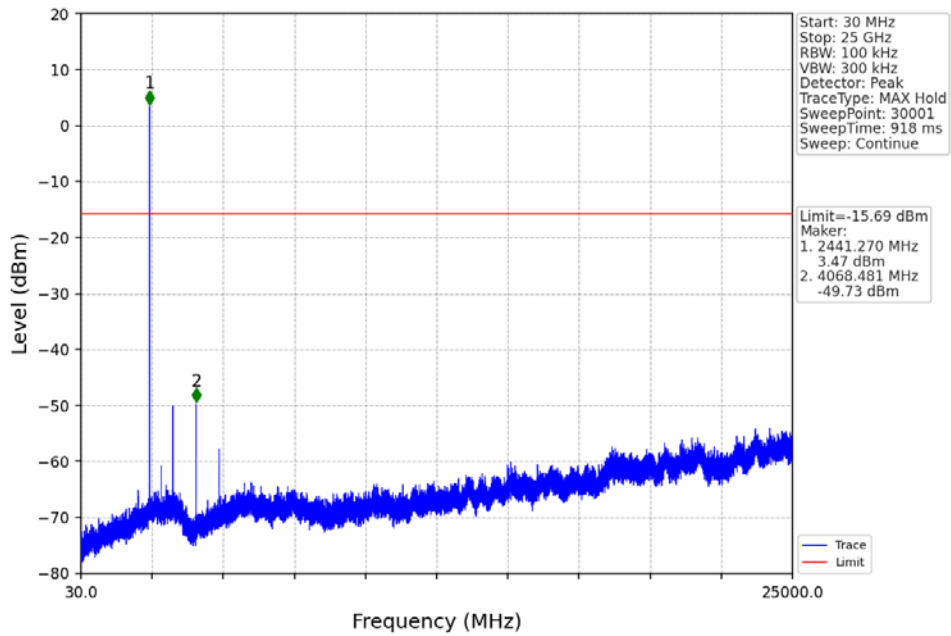




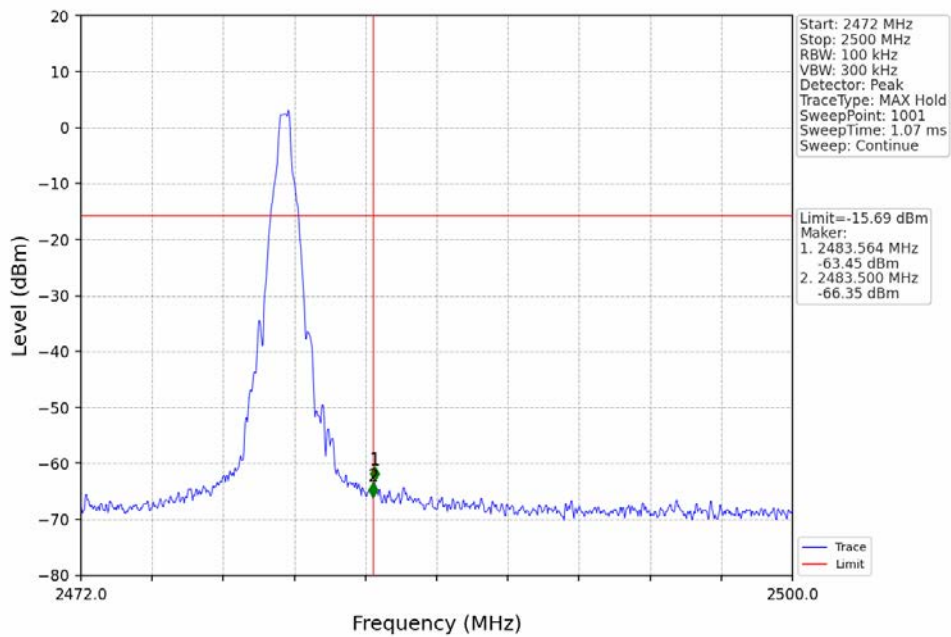
### 6.2.2 CSE



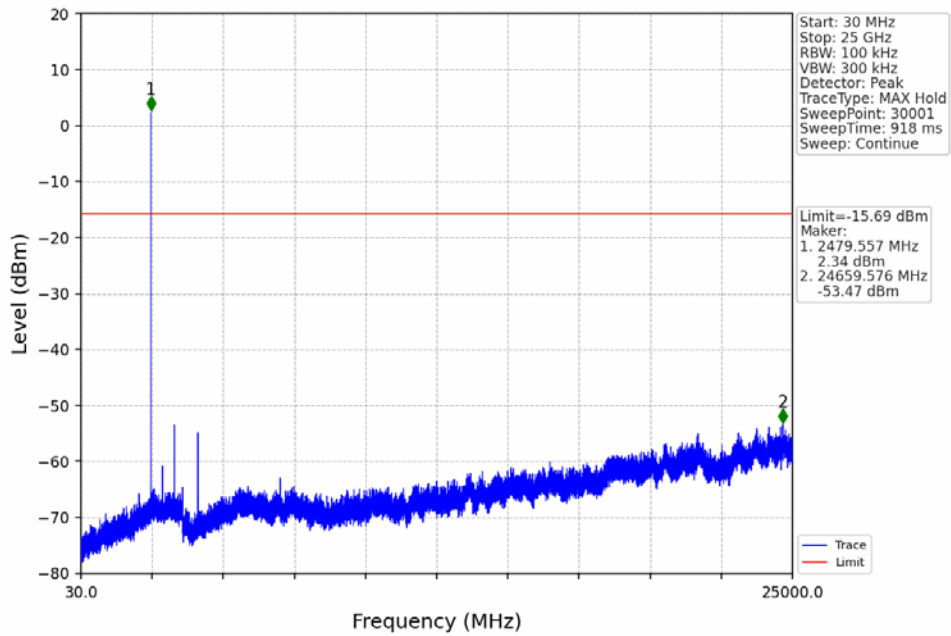
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



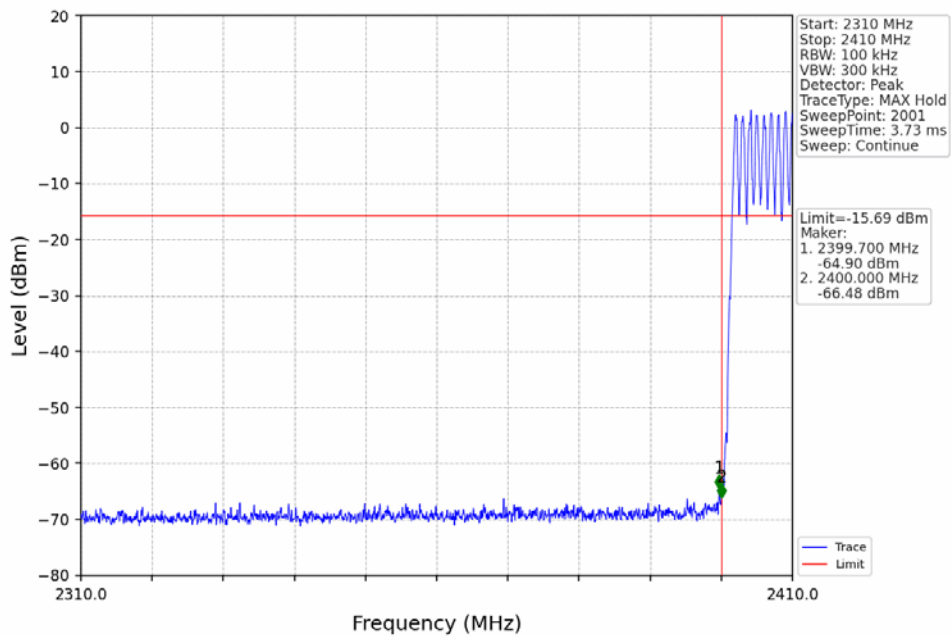
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

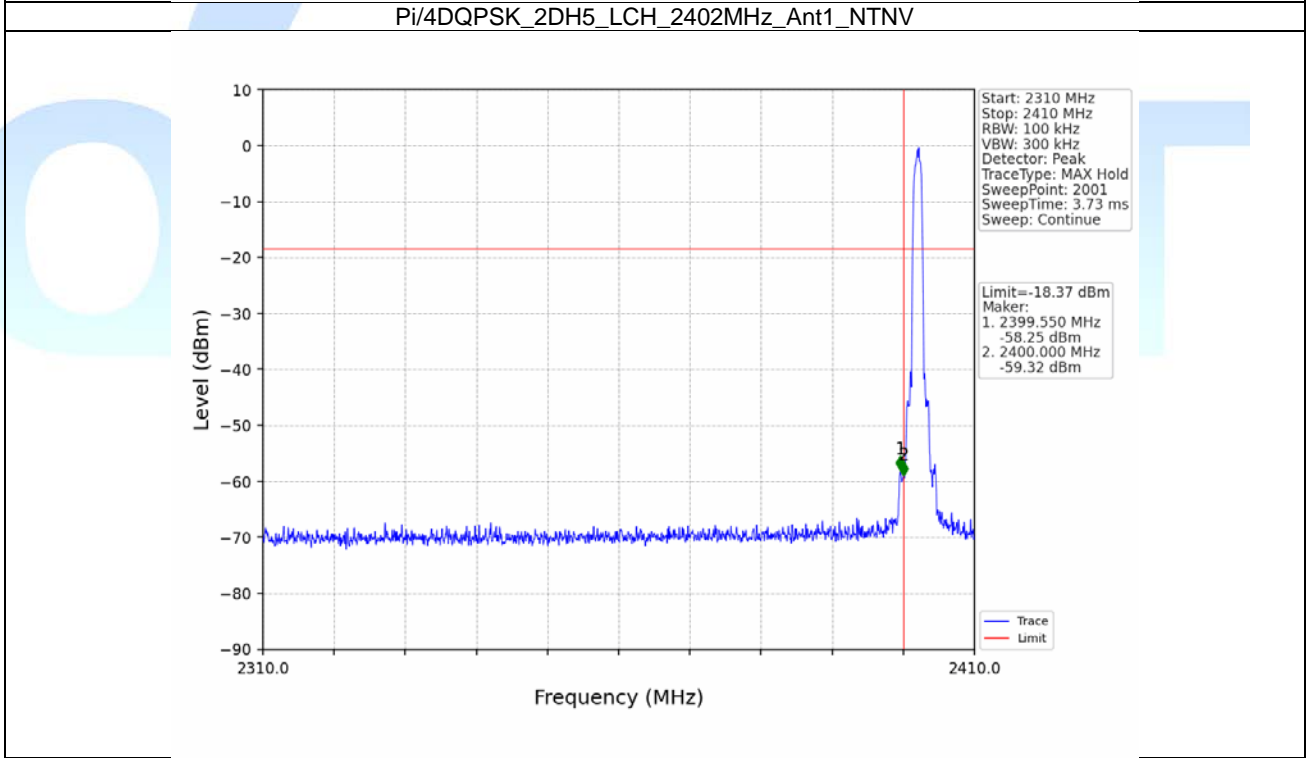
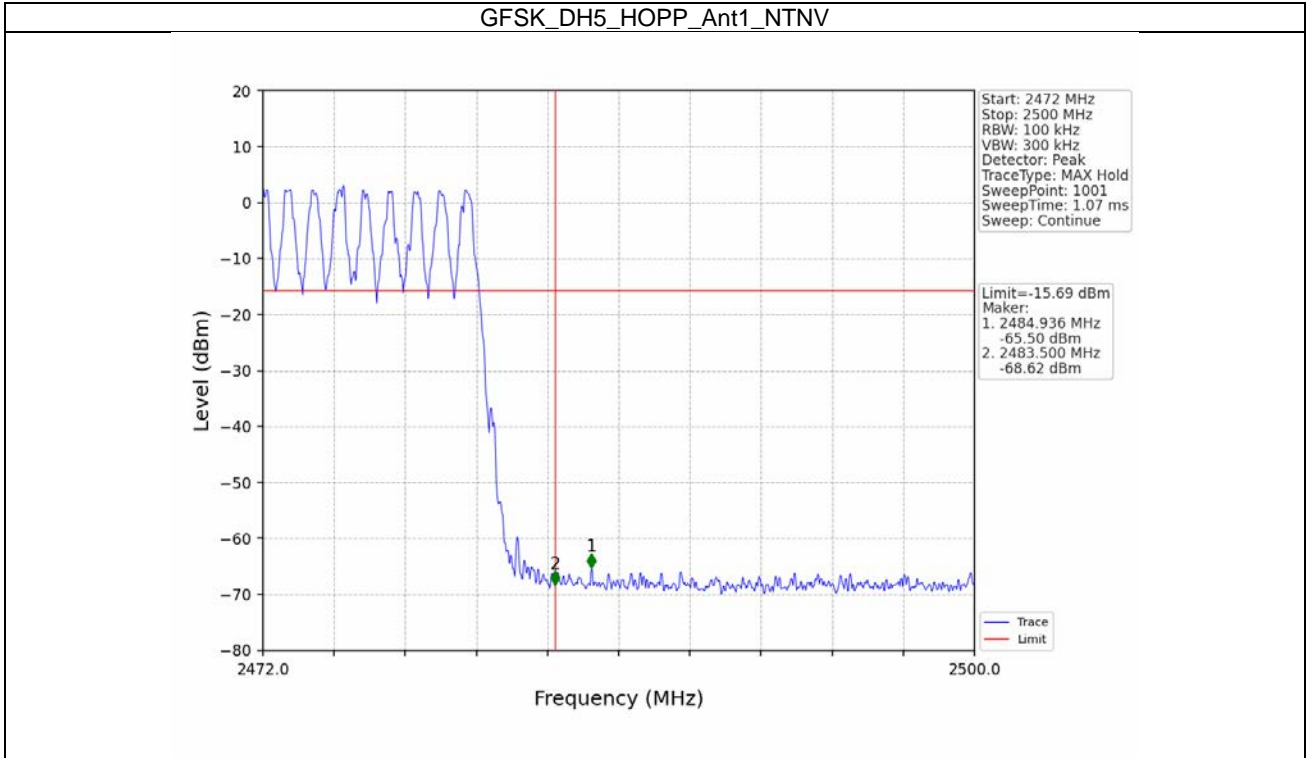


GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

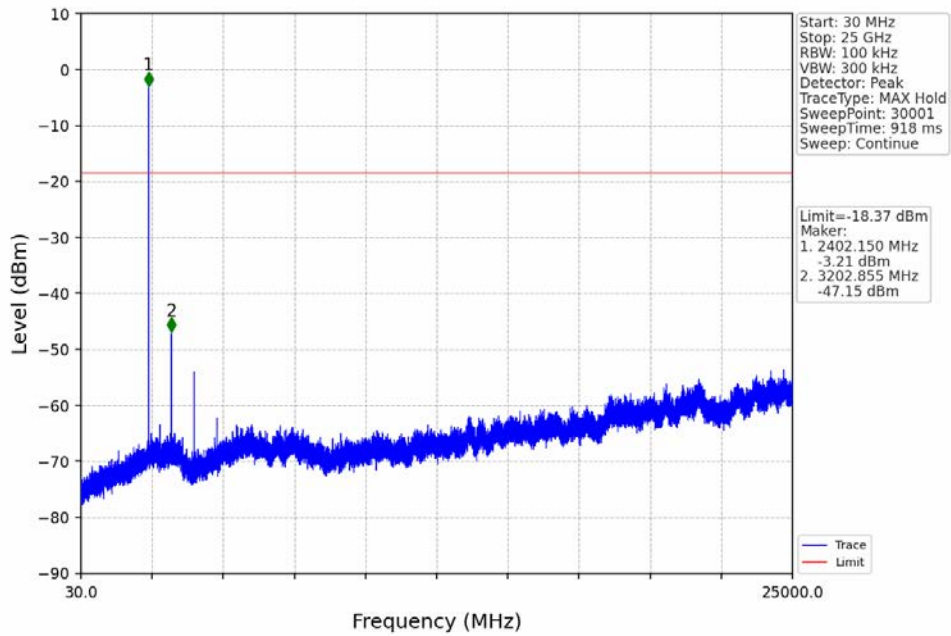


GFSK\_DH5\_HOPP\_2410MHz\_Ant1\_NTNV

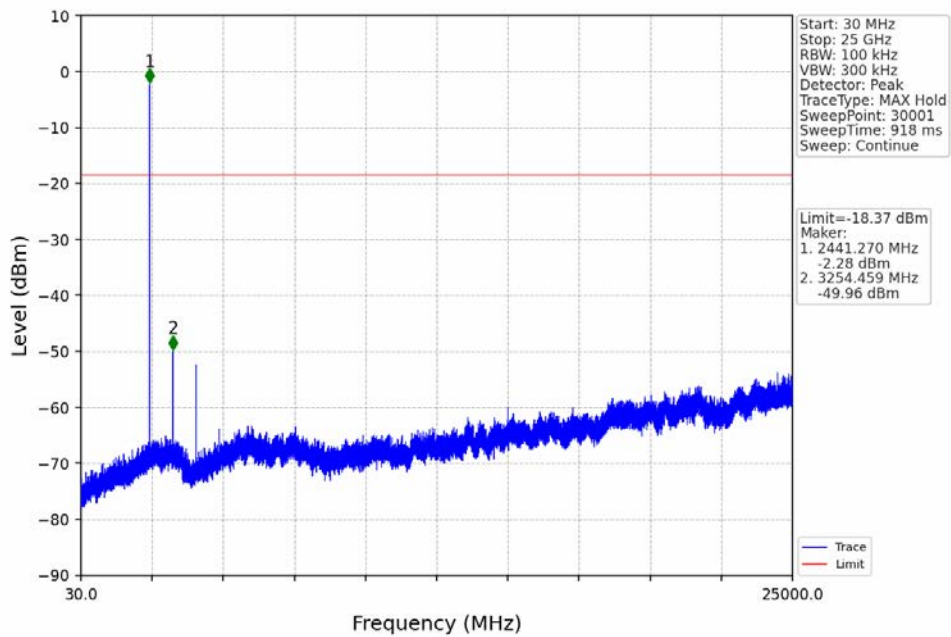




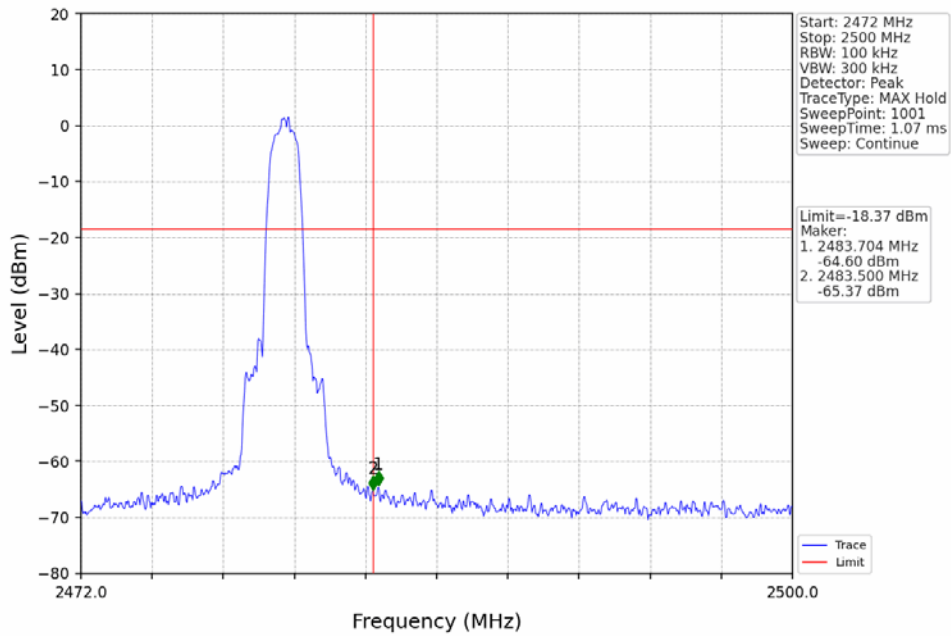
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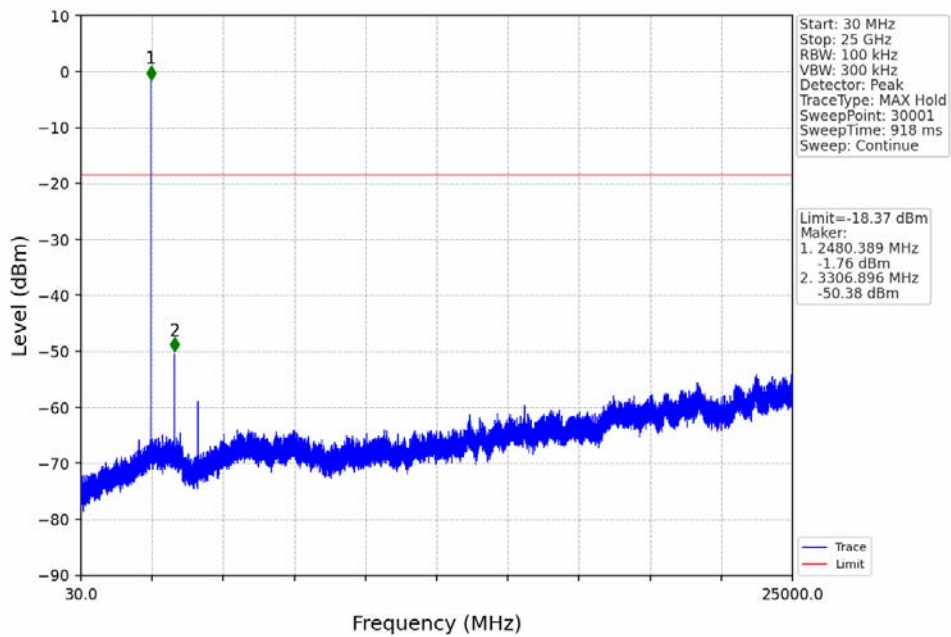
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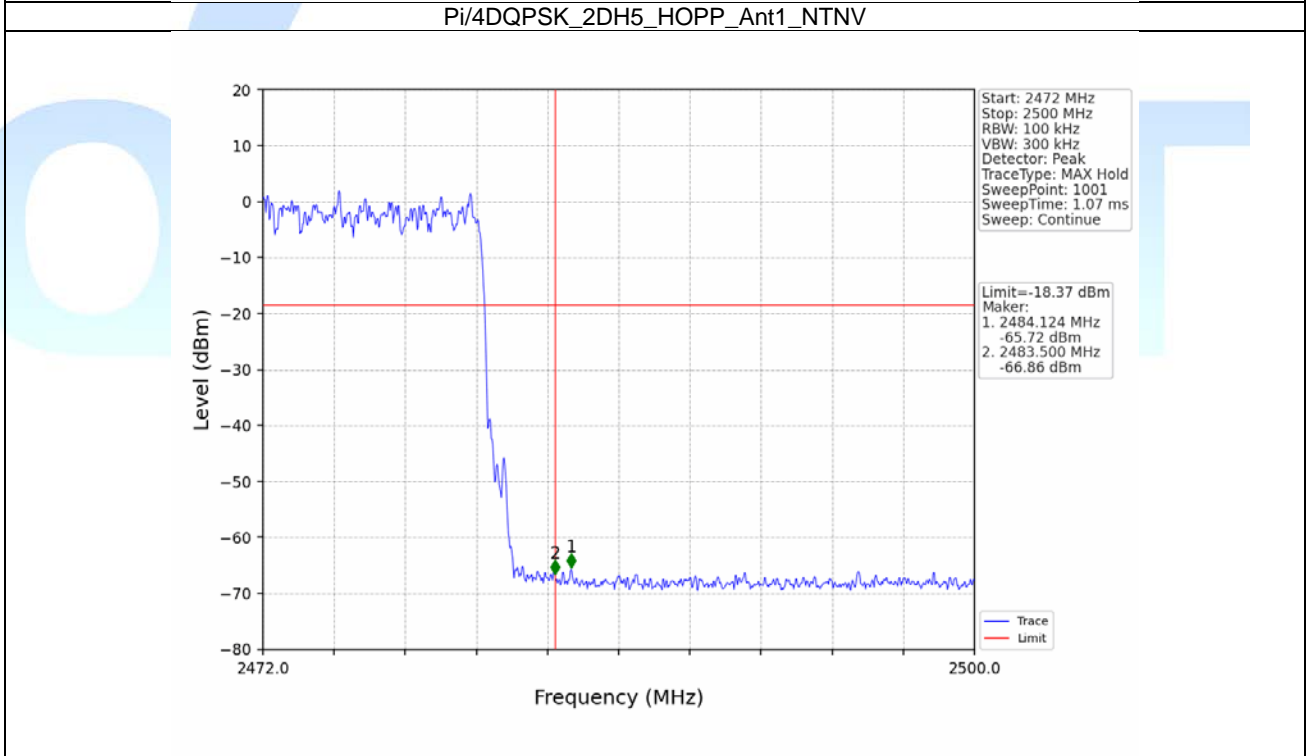
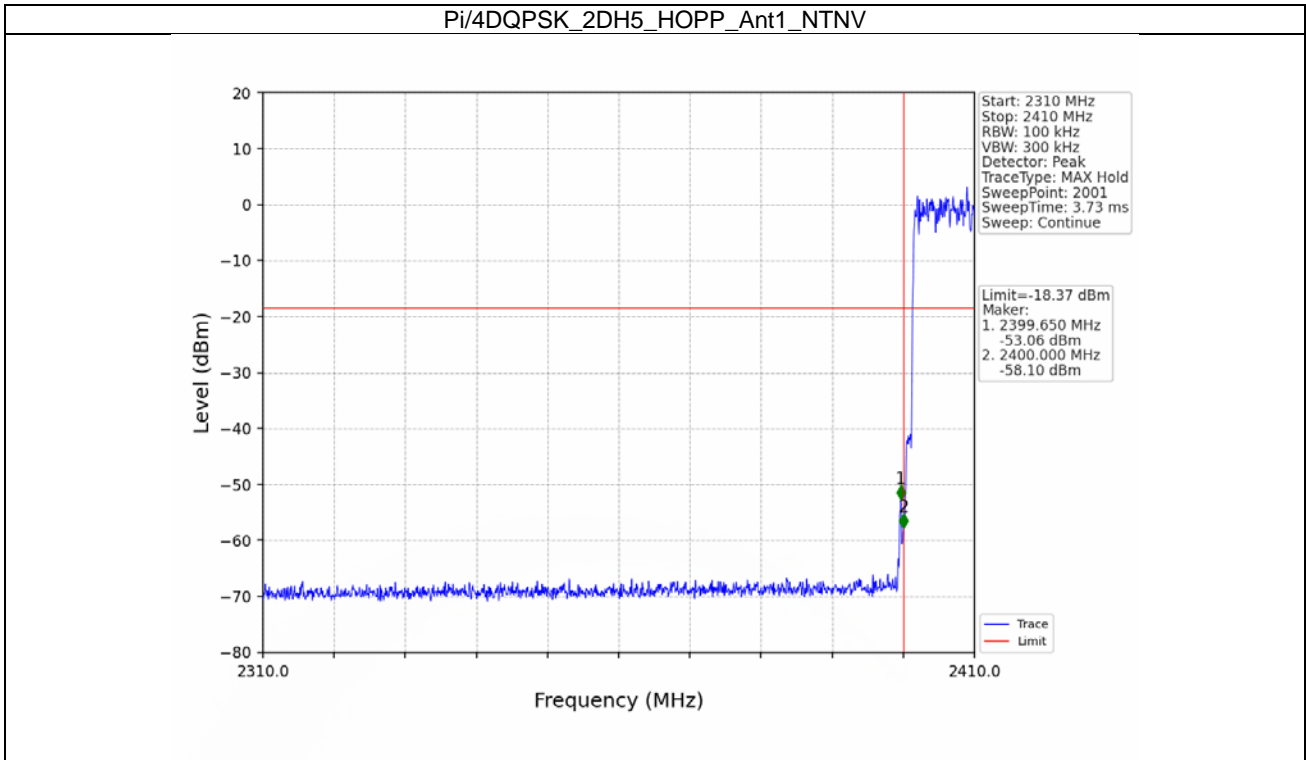


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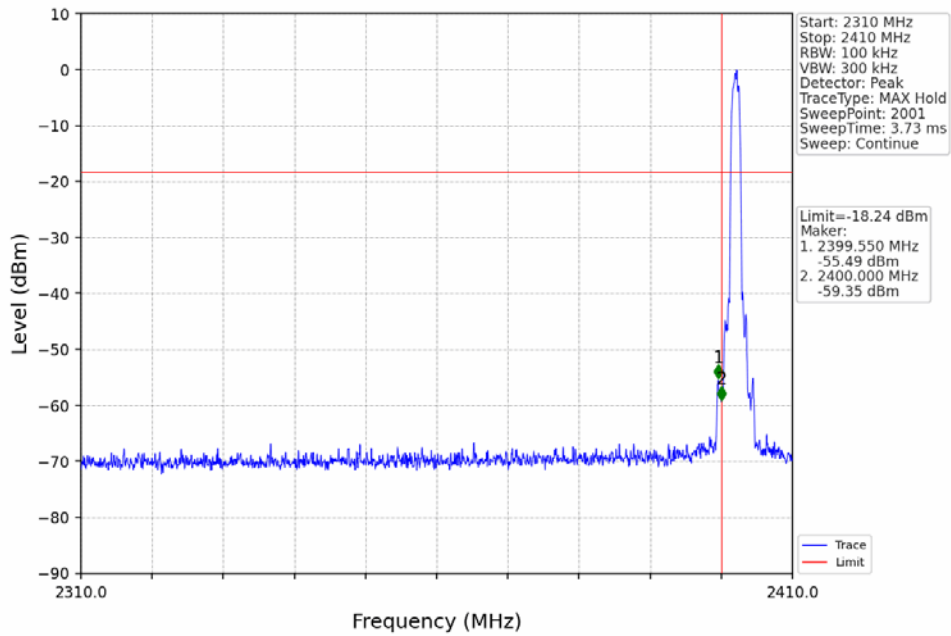
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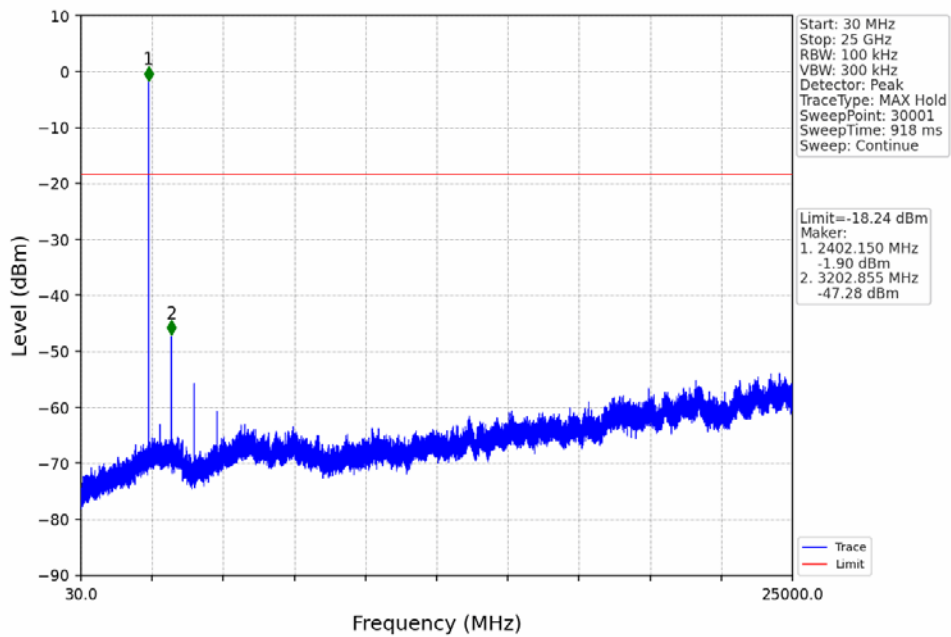




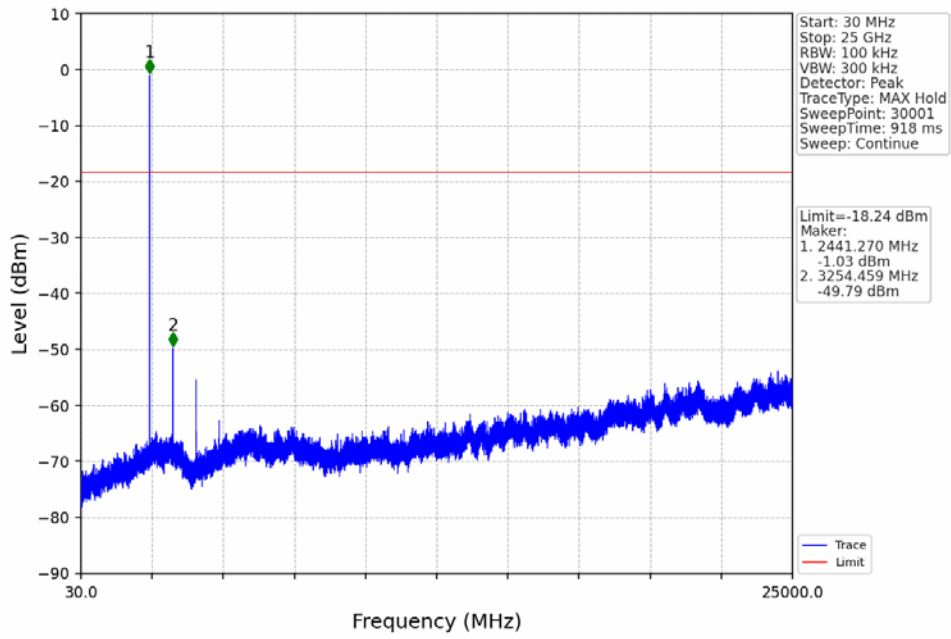
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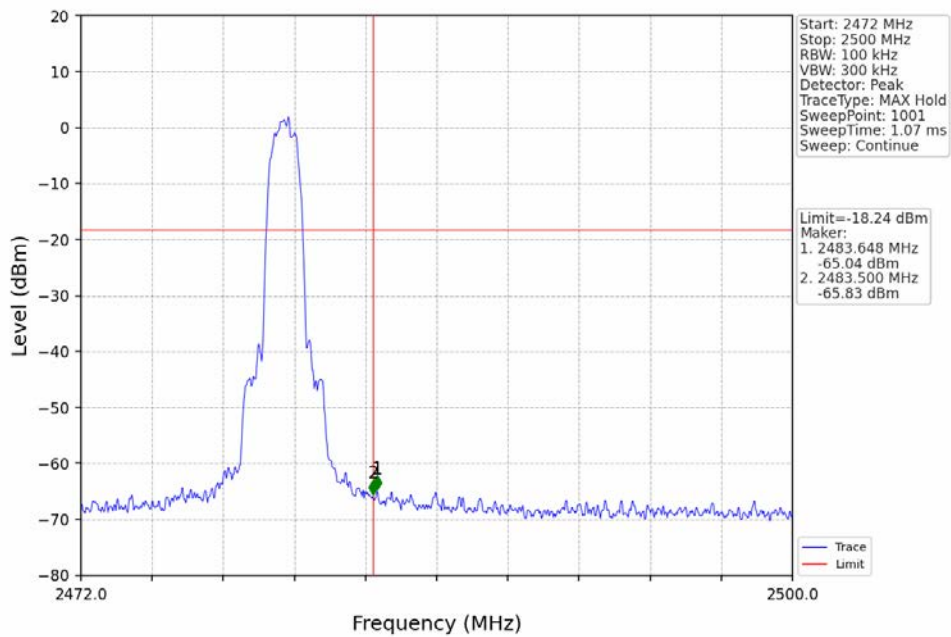
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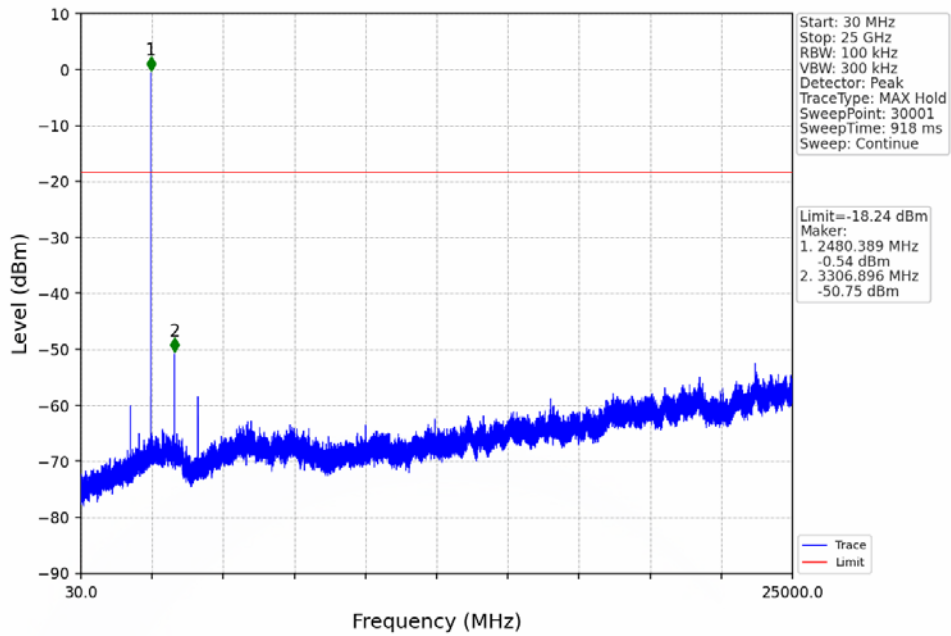
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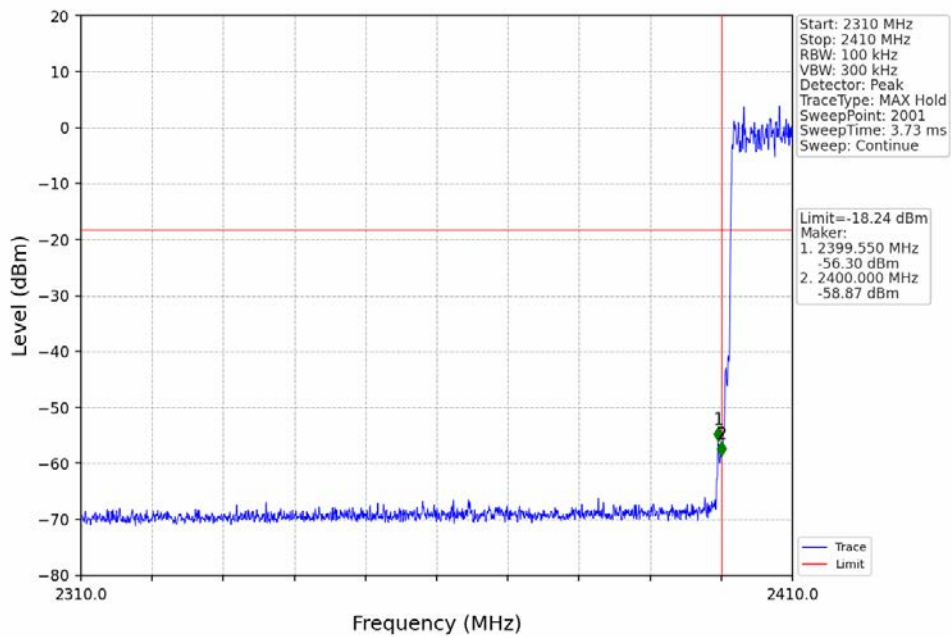
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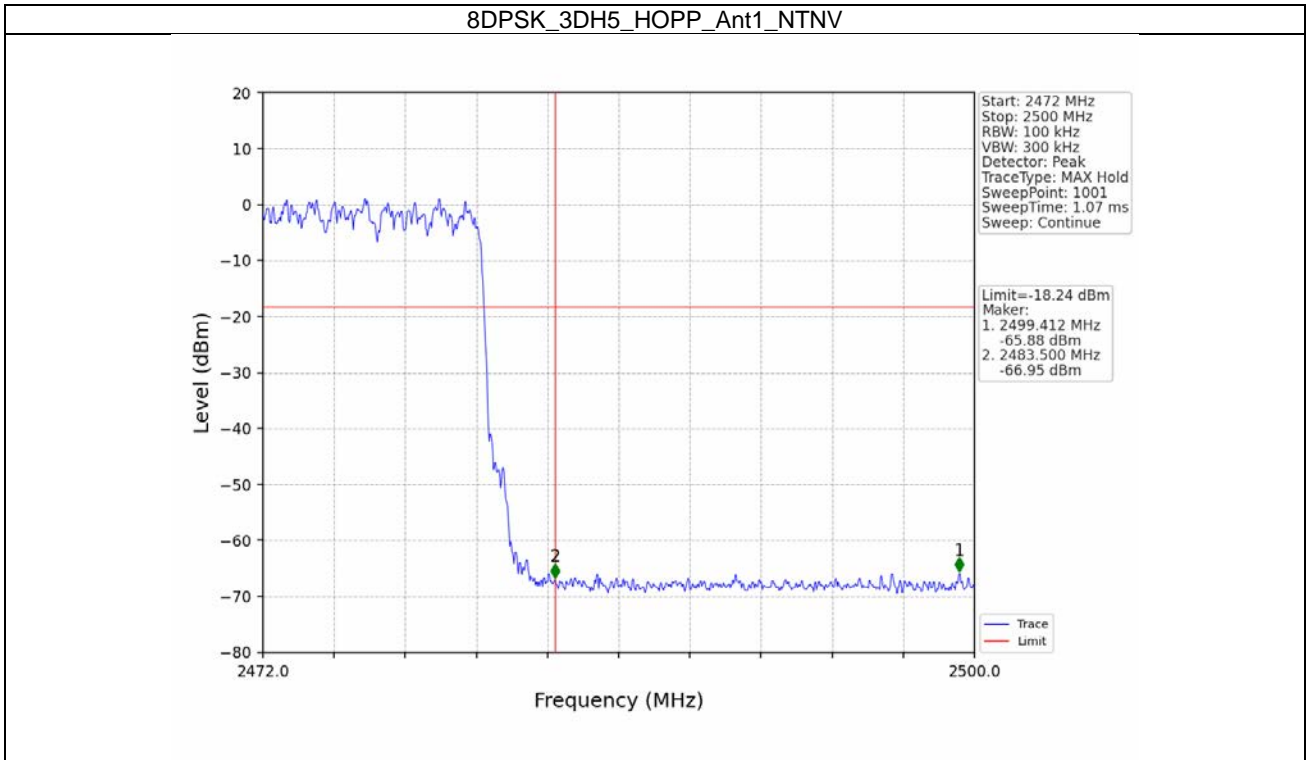


8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV





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