

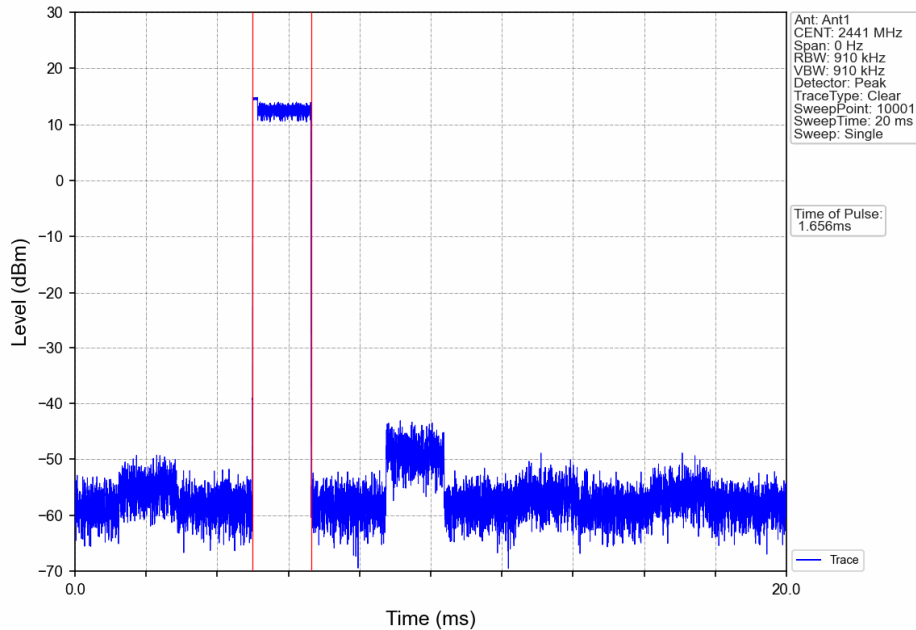
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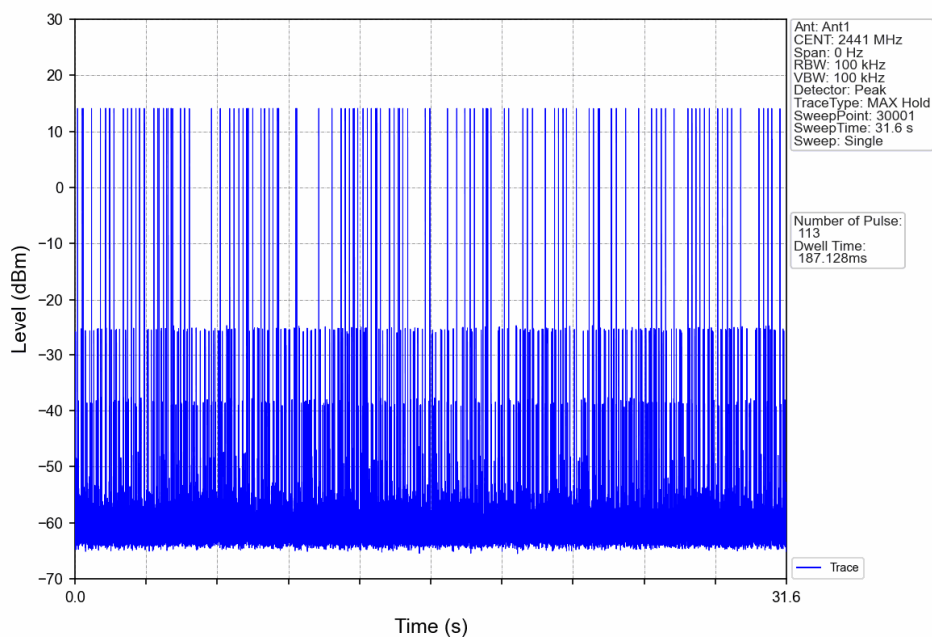
Report No.: FYCR230200004902

Page: 100 of 171

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



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



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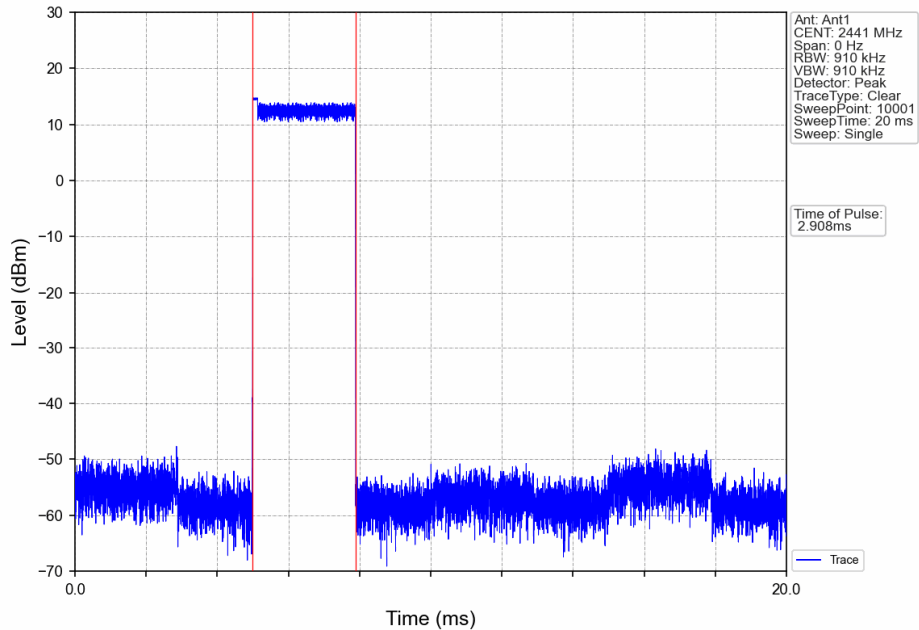
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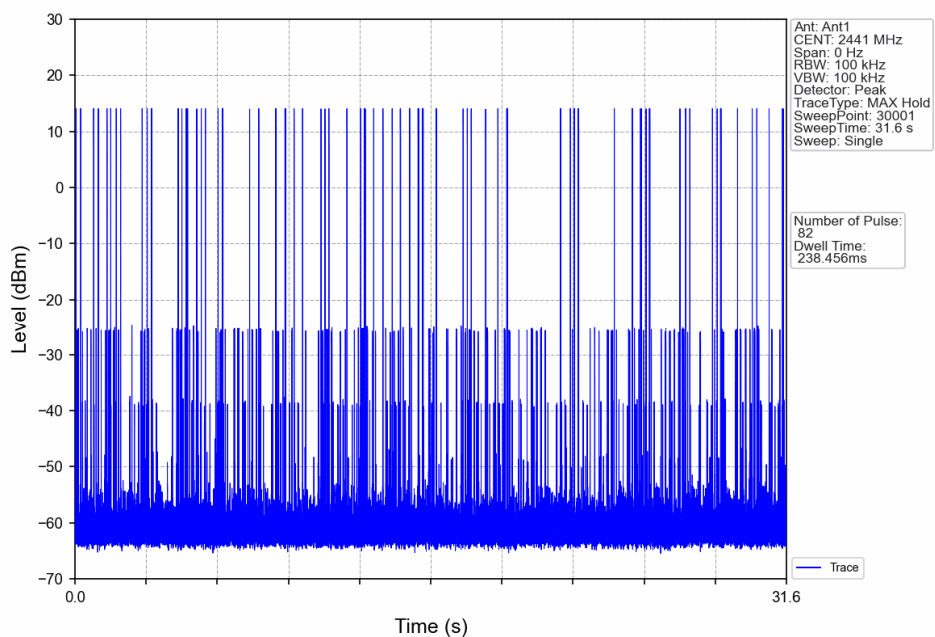
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Page: 101 of 171

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



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



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 102 of 171

## 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	14.46
		2441	DH5	1	14.61
		2480	DH5	1	14.51
Pi/4DQPSK	SISO	2402	2DH5	1	14.36
		2441	2DH5	1	14.47
		2480	2DH5	1	14.38
8DPSK	SISO	2402	3DH5	1	14.42
		2441	3DH5	1	14.62
		2480	3DH5	1	14.53



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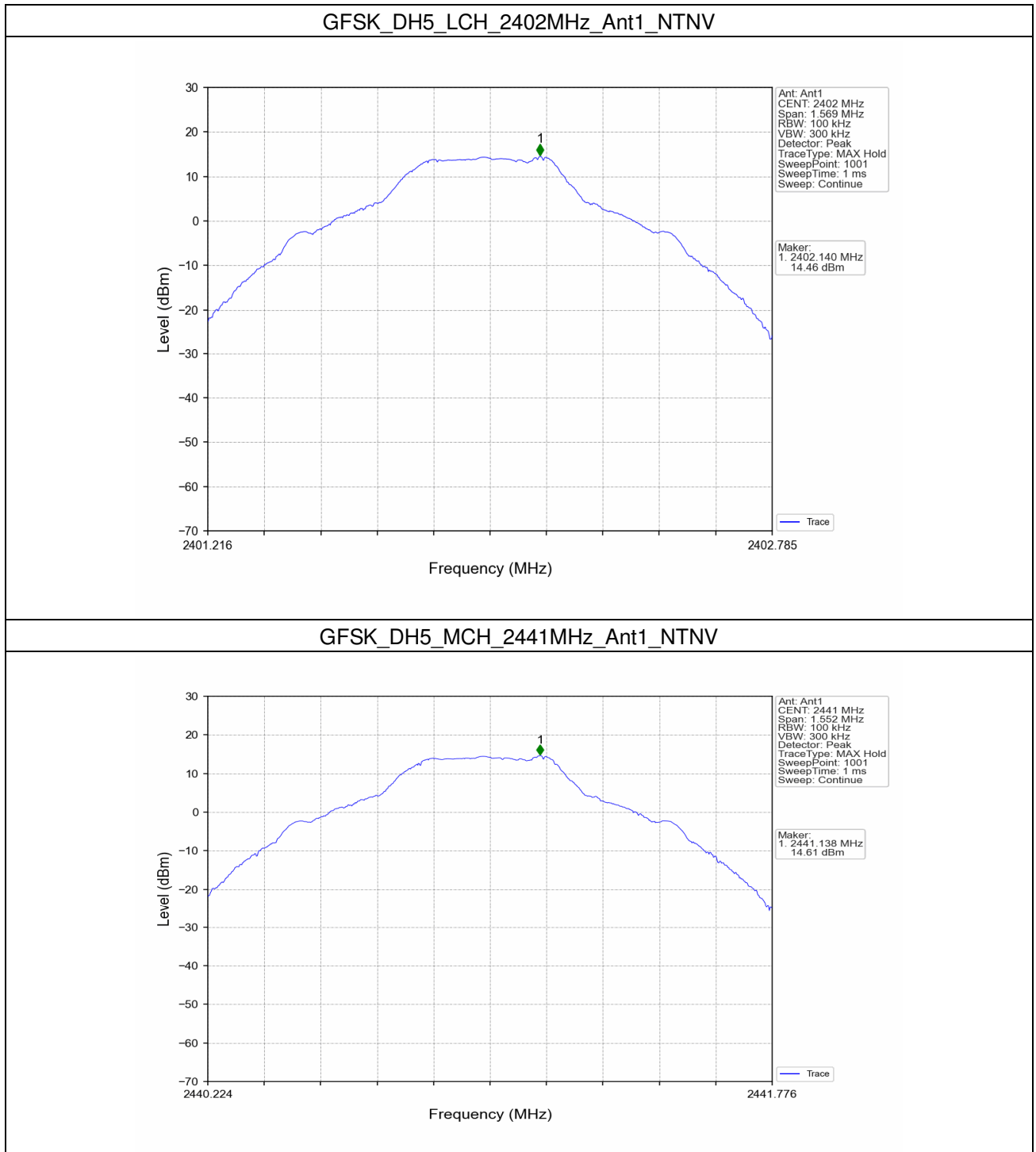
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Report No.: FYCR230200004902

Page: 103 of 171

### 7.1.2 Test Graph



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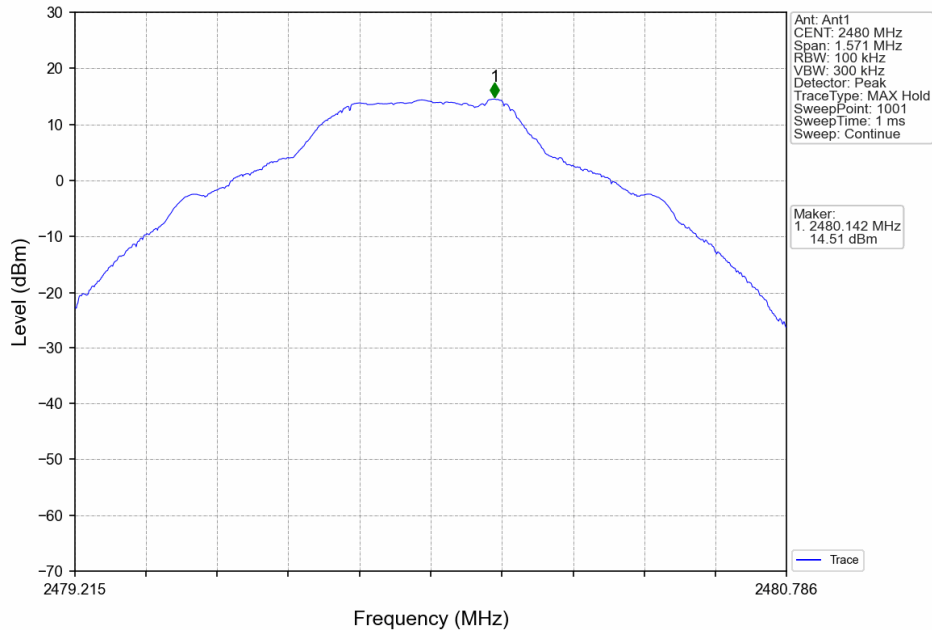
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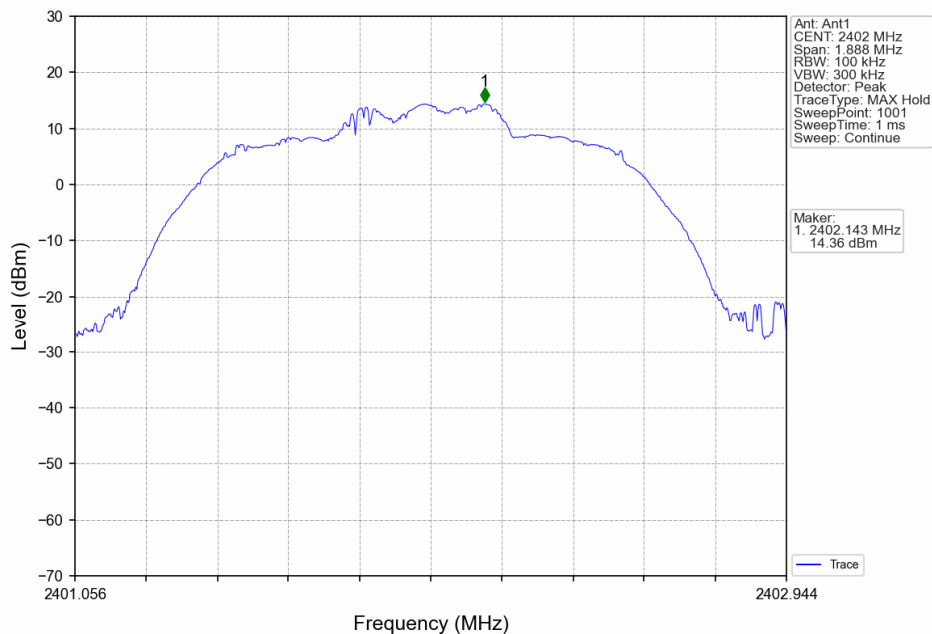
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Page: 104 of 171

GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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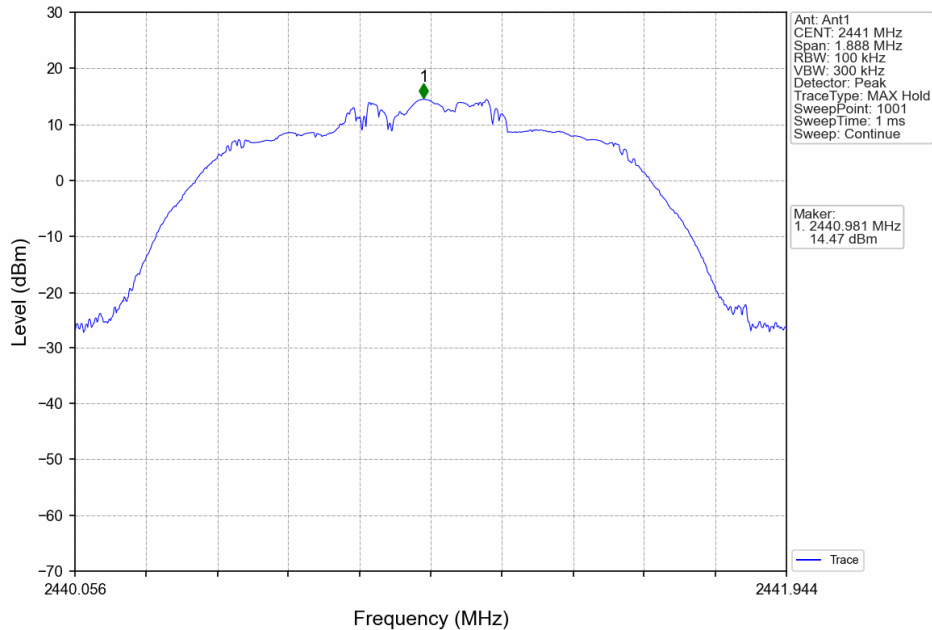
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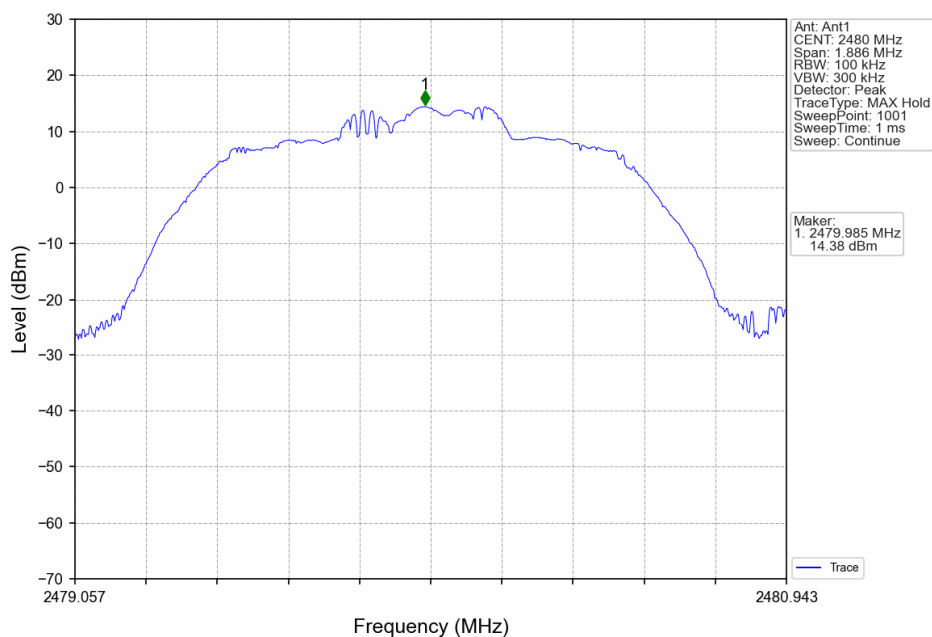
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Page: 105 of 171

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



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



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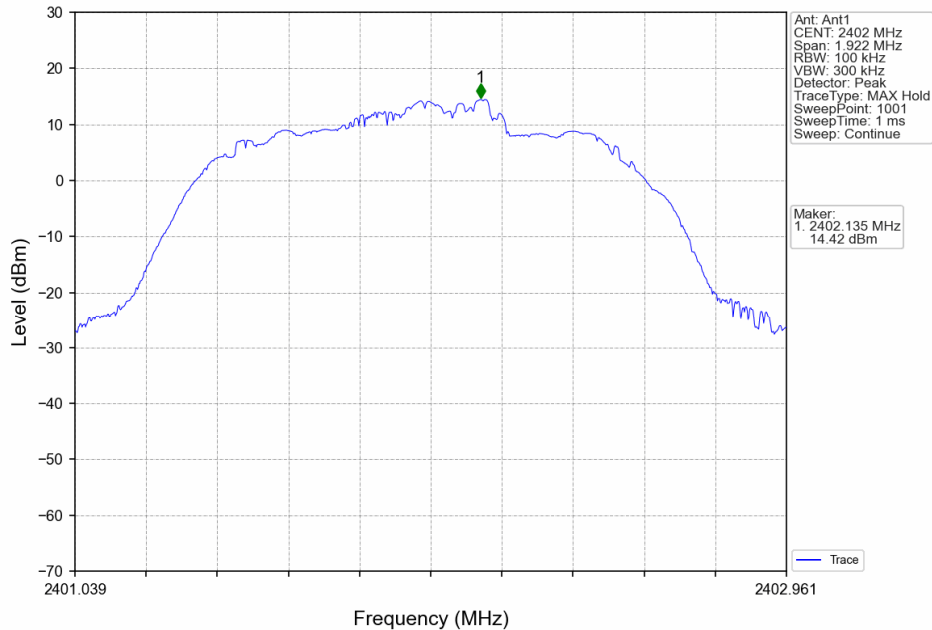
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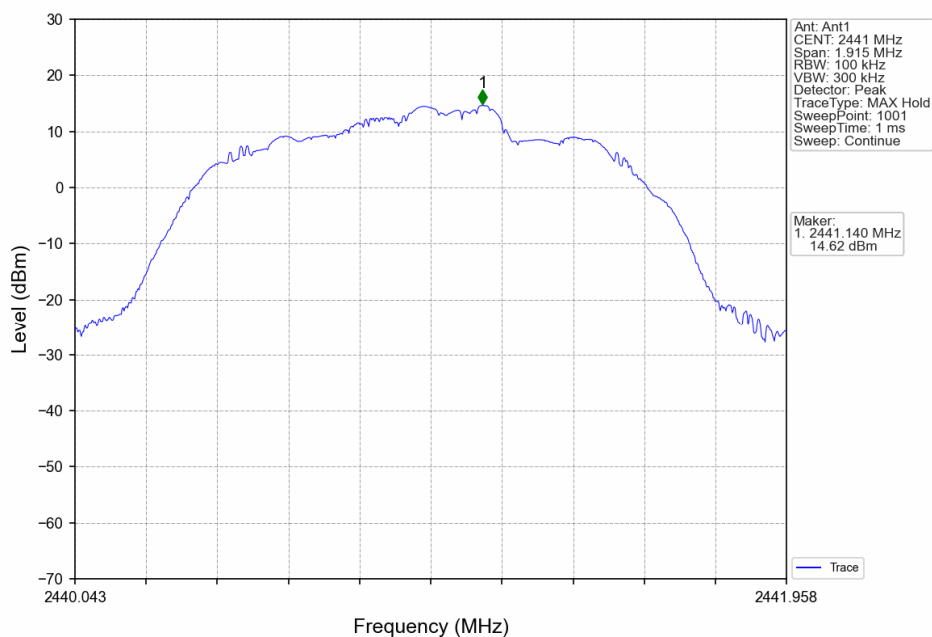
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Page: 106 of 171

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



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



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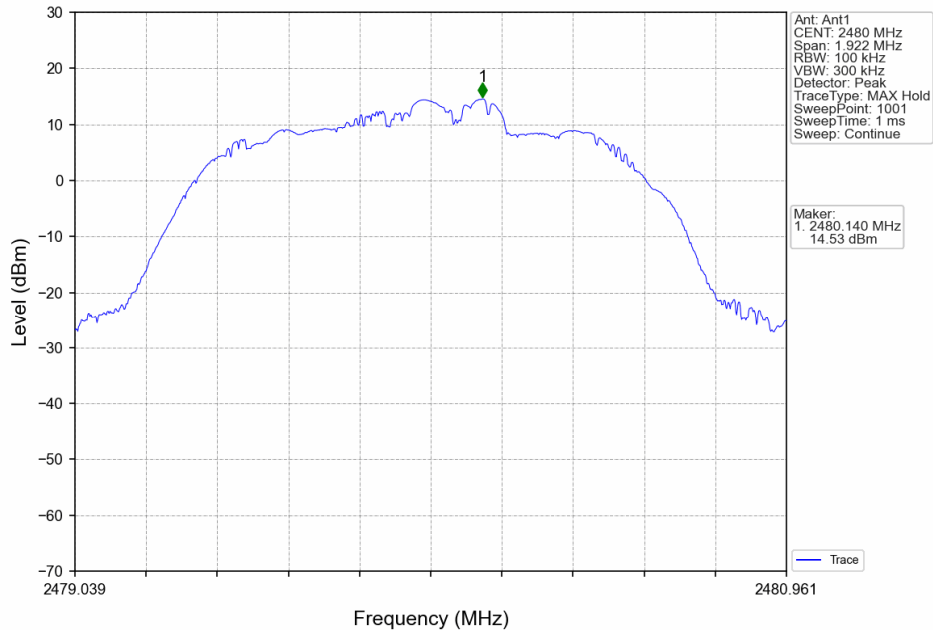
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 108 of 171

### 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	14.61	-5.39	Pass
		2441	DH5	1	14.61	-5.39	Pass
		2480	DH5	1	14.61	-5.39	Pass
		HOPP	DH5	1	14.61	-5.39	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	14.47	-5.53	Pass
		2441	2DH5	1	14.47	-5.53	Pass
		2480	2DH5	1	14.47	-5.53	Pass
		HOPP	2DH5	1	14.47	-5.53	Pass
8DPSK	SISO	2402	3DH5	1	14.62	-5.38	Pass
		2441	3DH5	1	14.62	-5.38	Pass
		2480	3DH5	1	14.62	-5.38	Pass
		HOPP	3DH5	1	14.62	-5.38	Pass

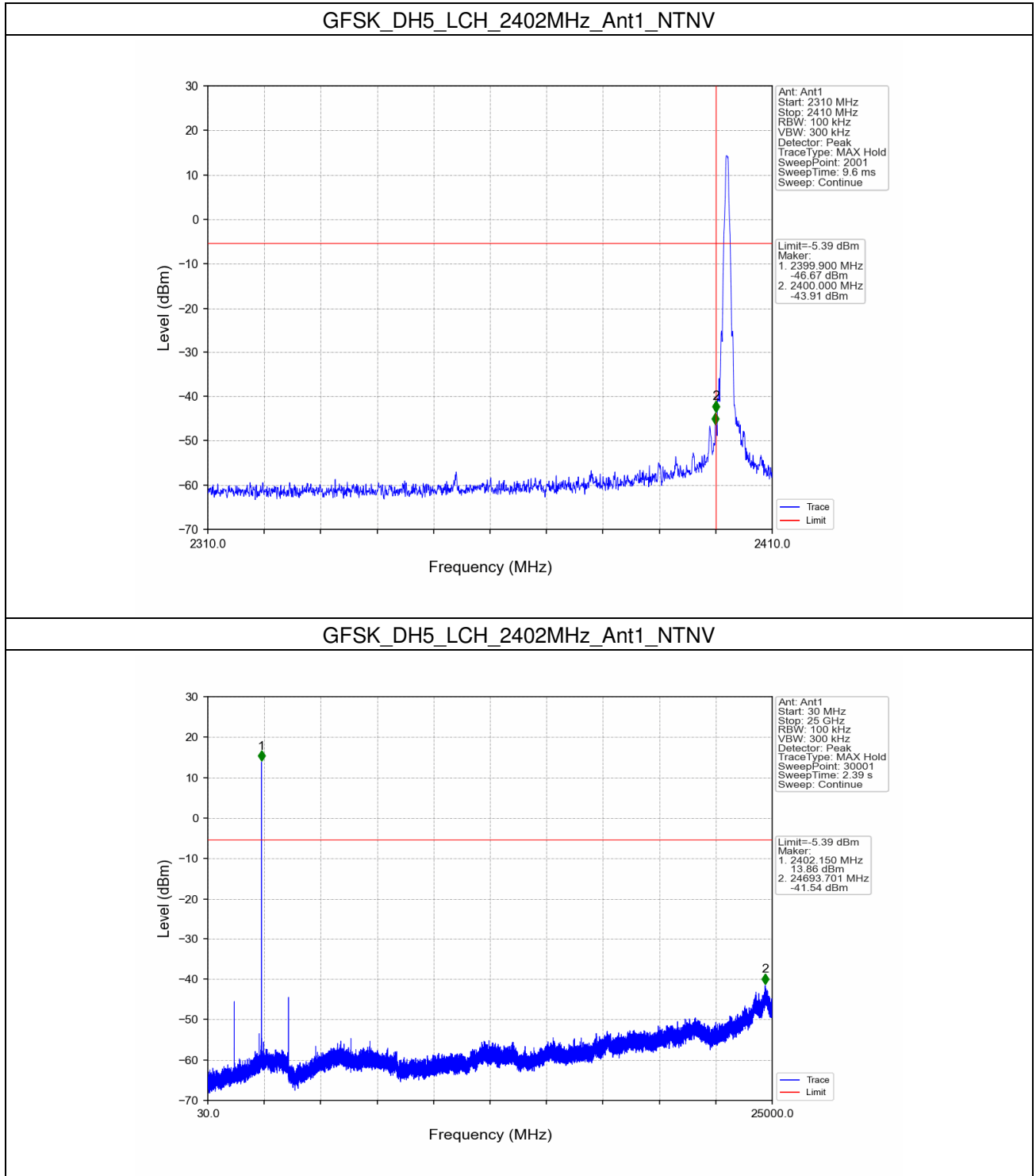


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### 7.2.2 Test Graph



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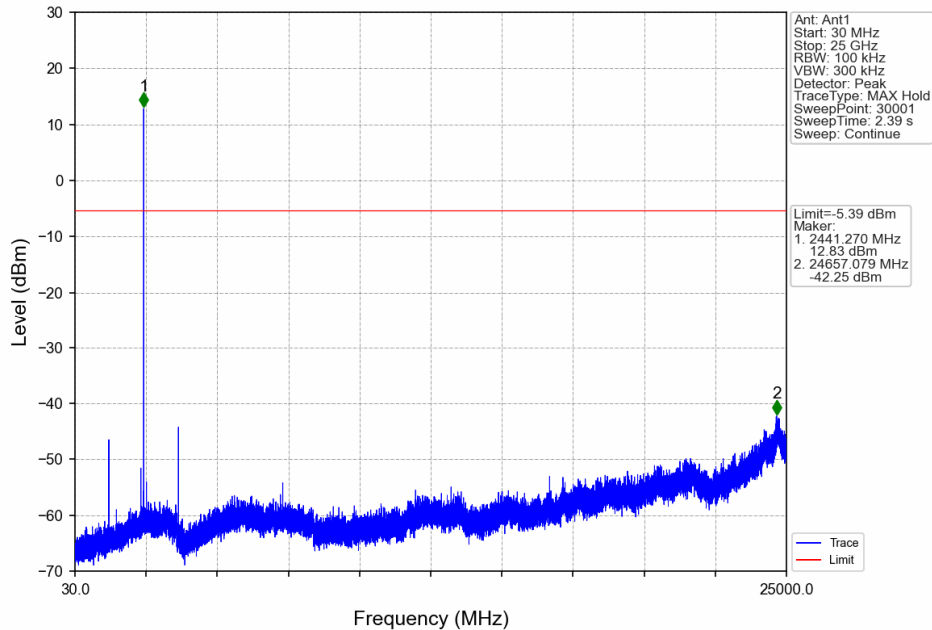
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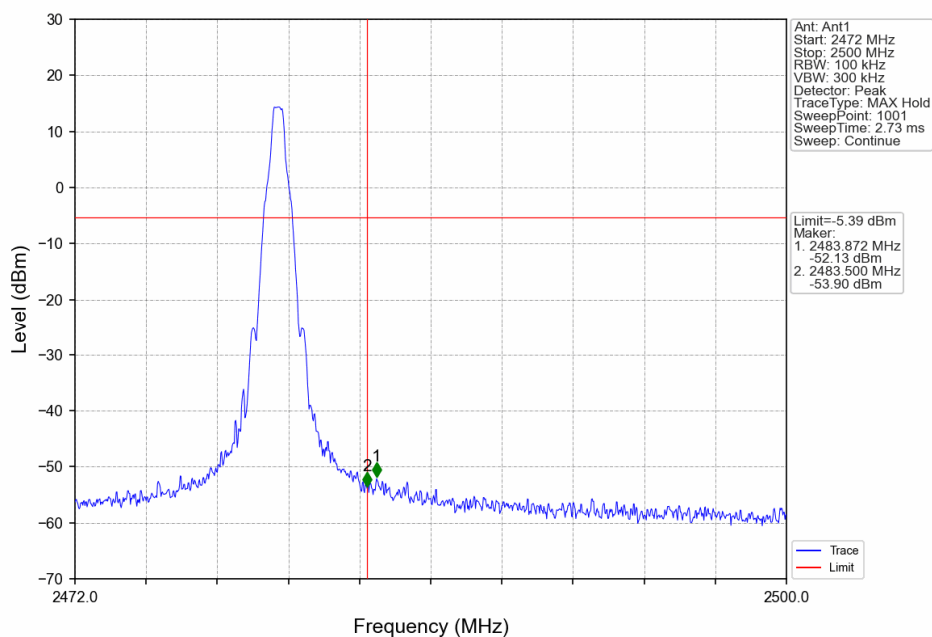
Report No.: FYCR230200004902

Page: 110 of 171

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



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



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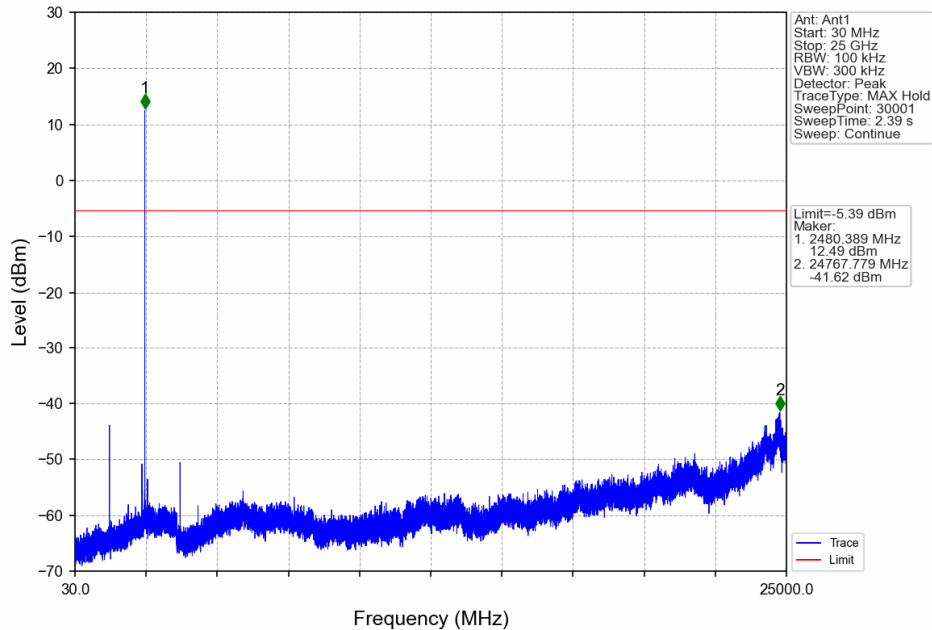
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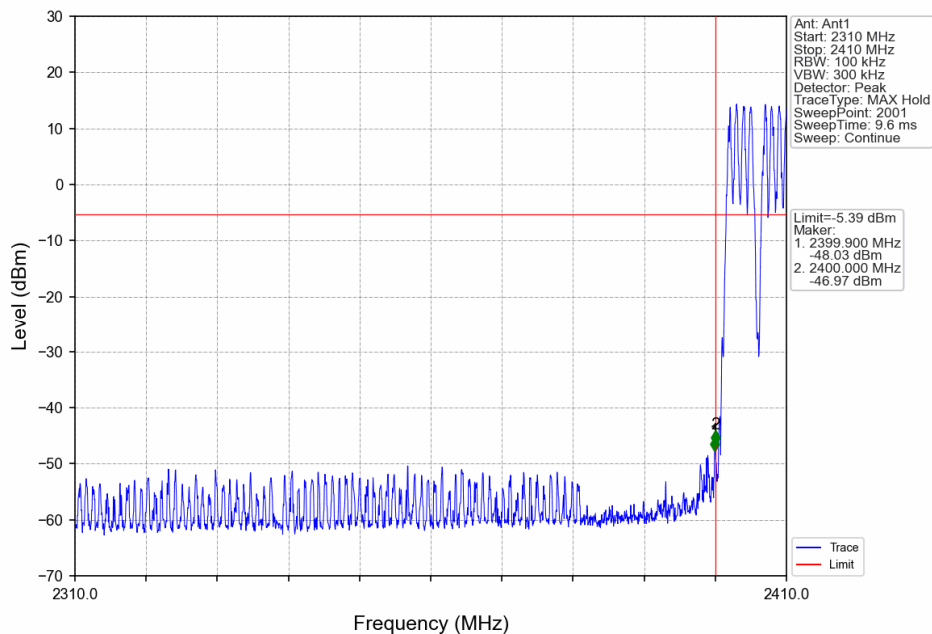
Report No.: FYCR230200004902

Page: 111 of 171

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



### GFSK\_DH5\_HOPP\_2410MHz\_Ant1\_NTNV



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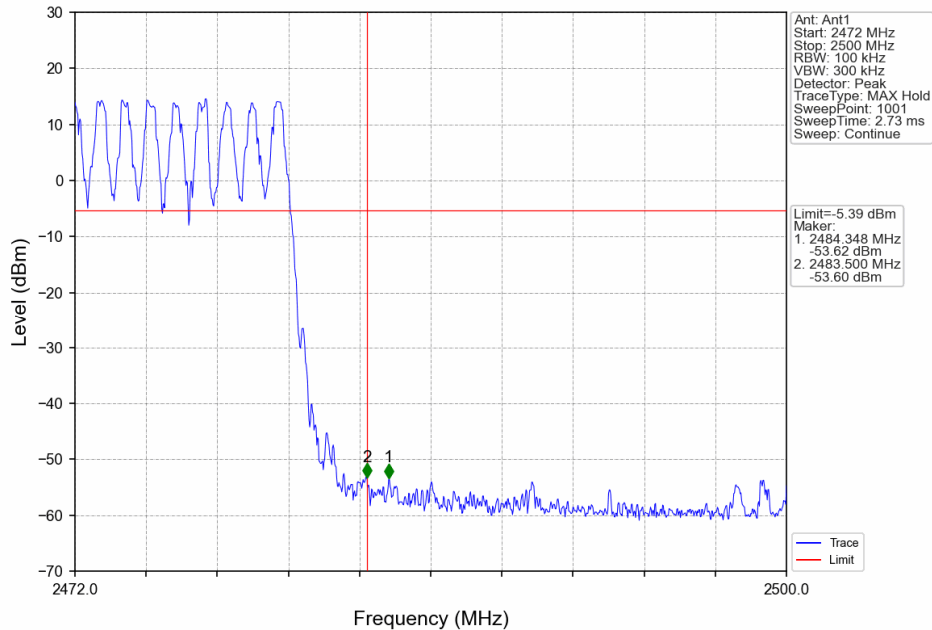
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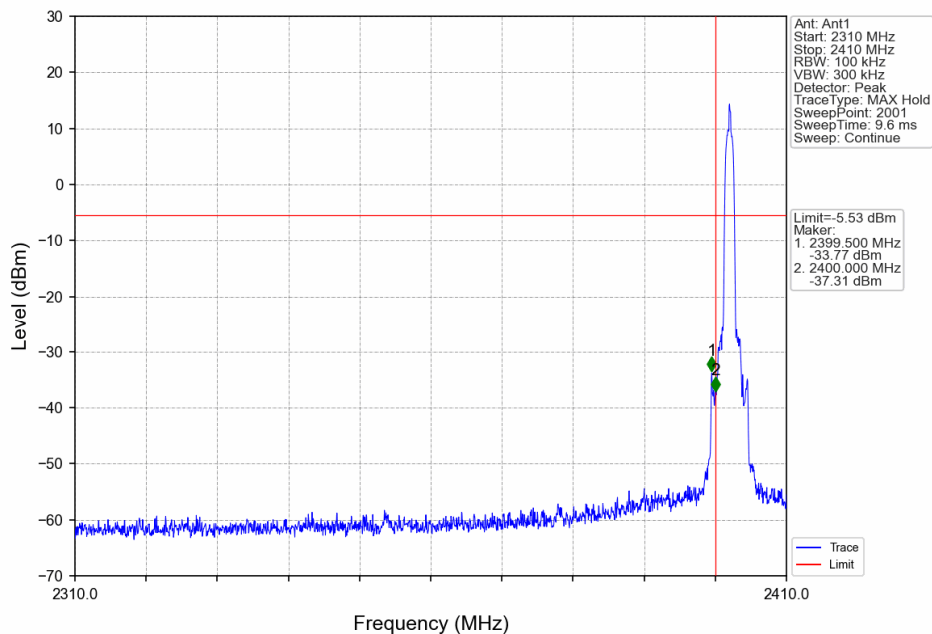
Report No.: FYCR230200004902

Page: 112 of 171

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



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



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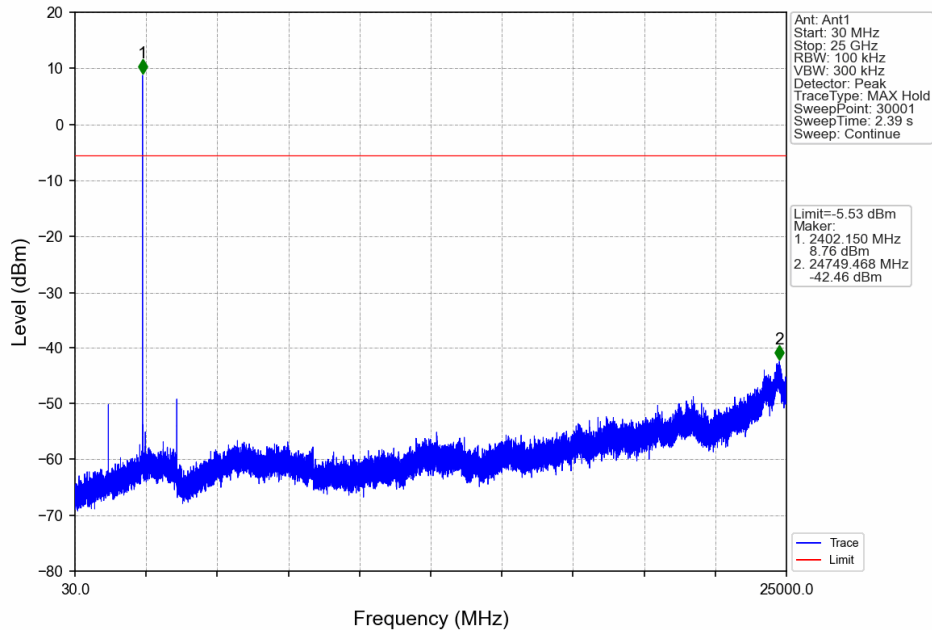
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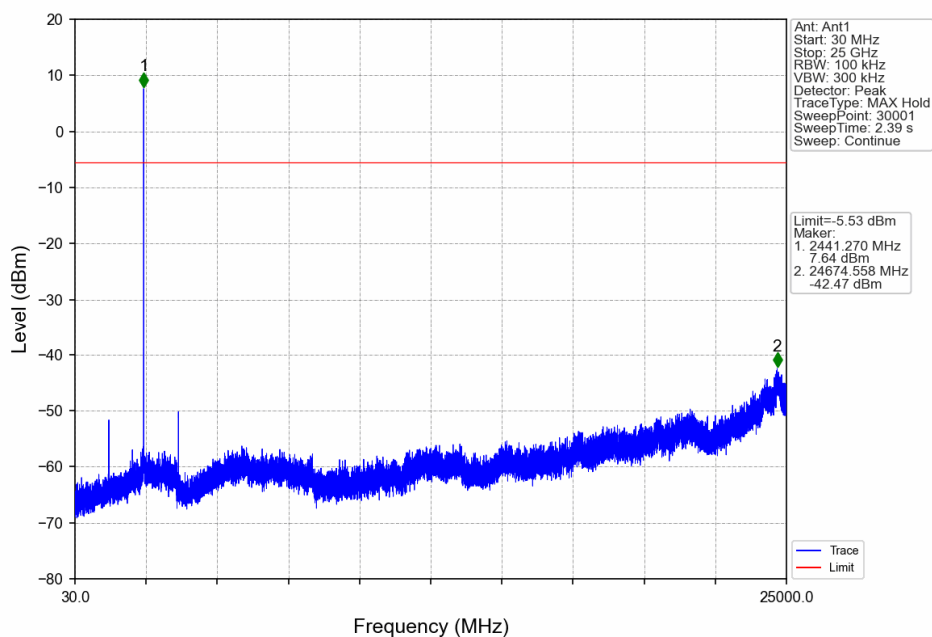
Report No.: FYCR230200004902

Page: 113 of 171

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



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



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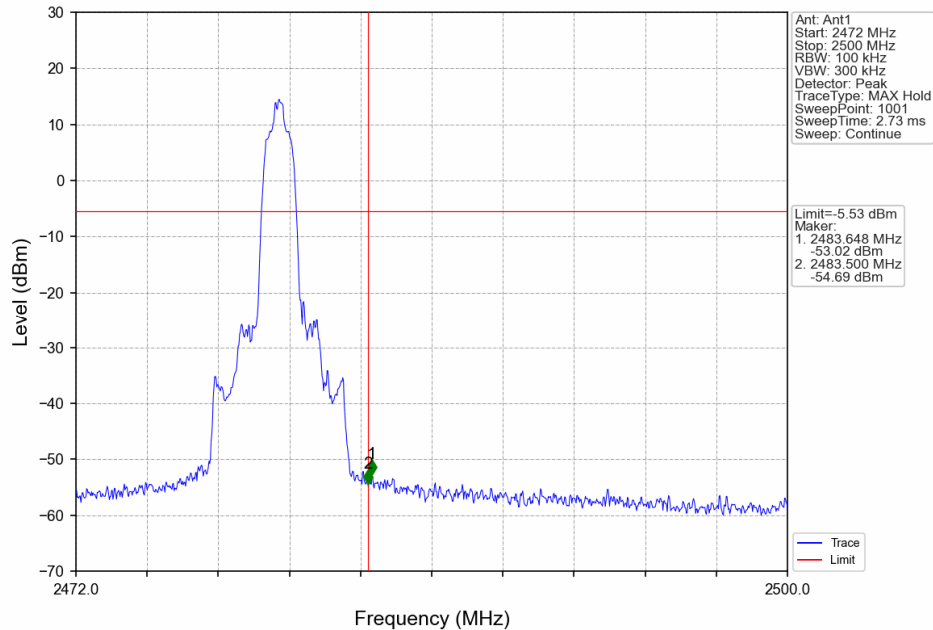
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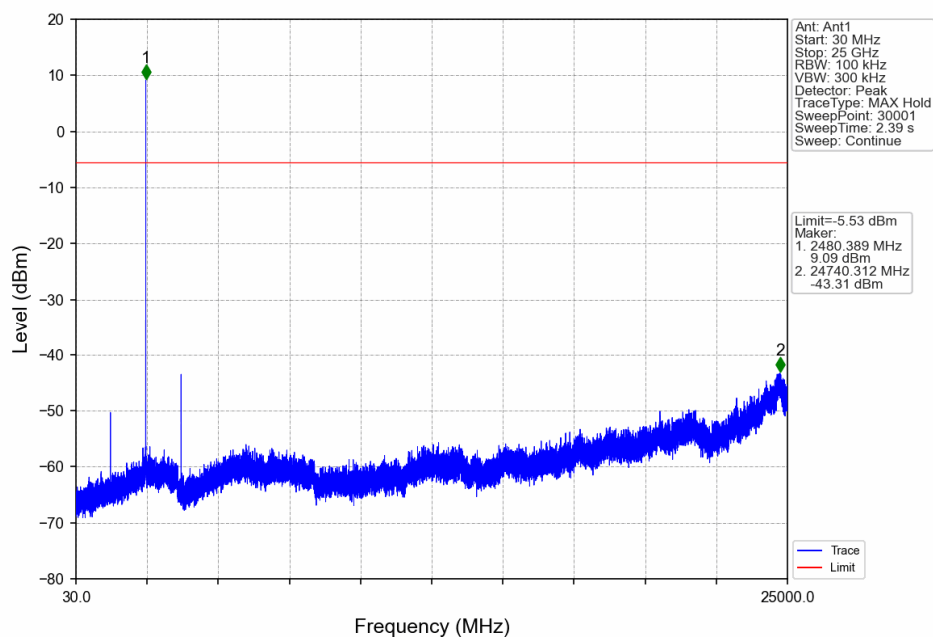
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Page: 114 of 171

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



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



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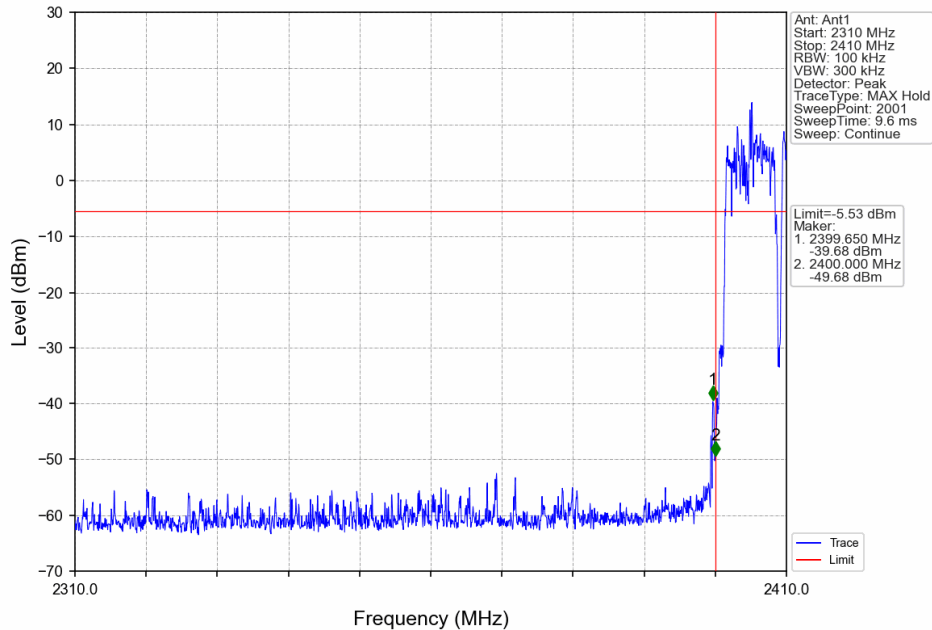
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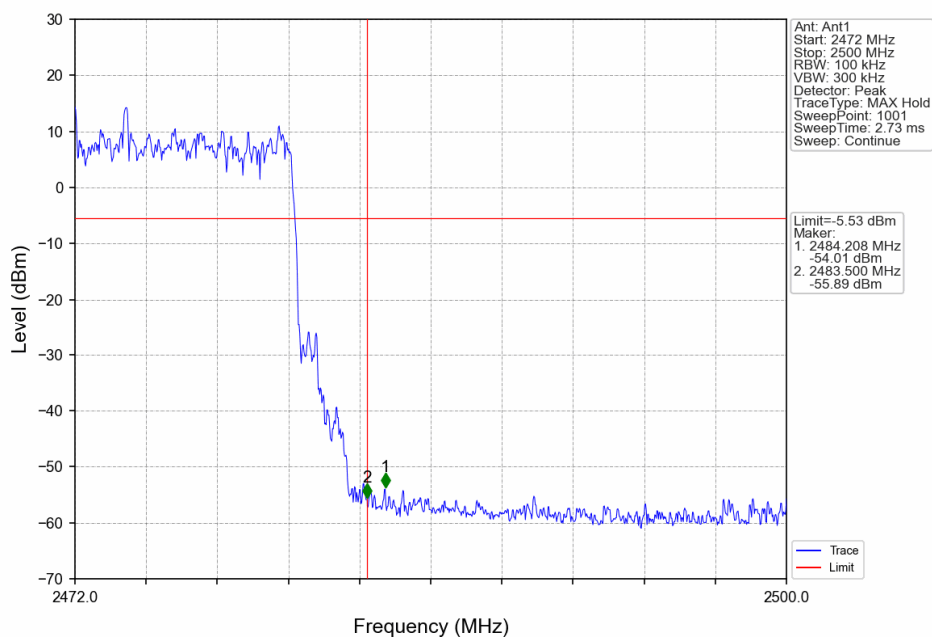
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Page: 115 of 171

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



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



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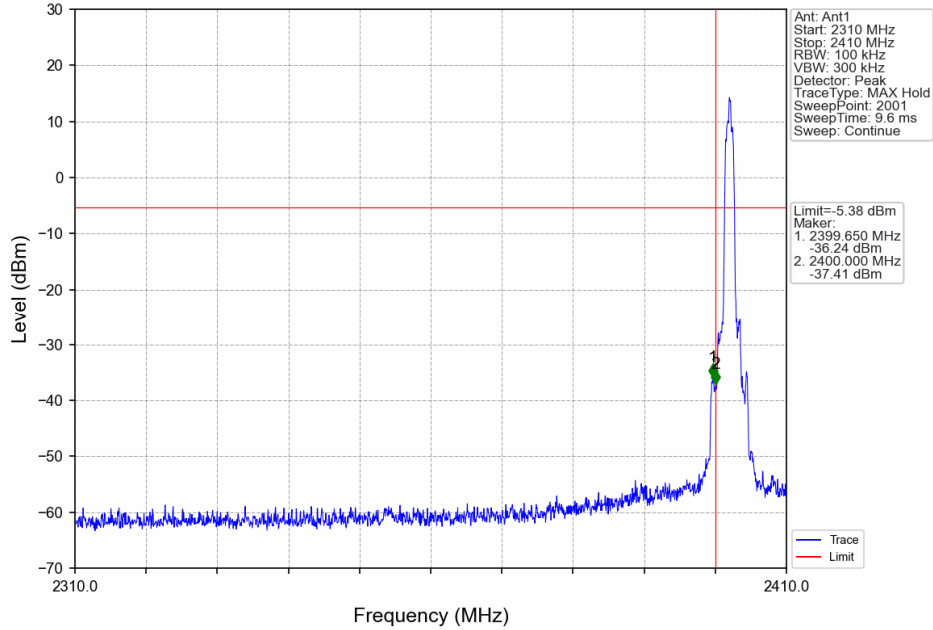
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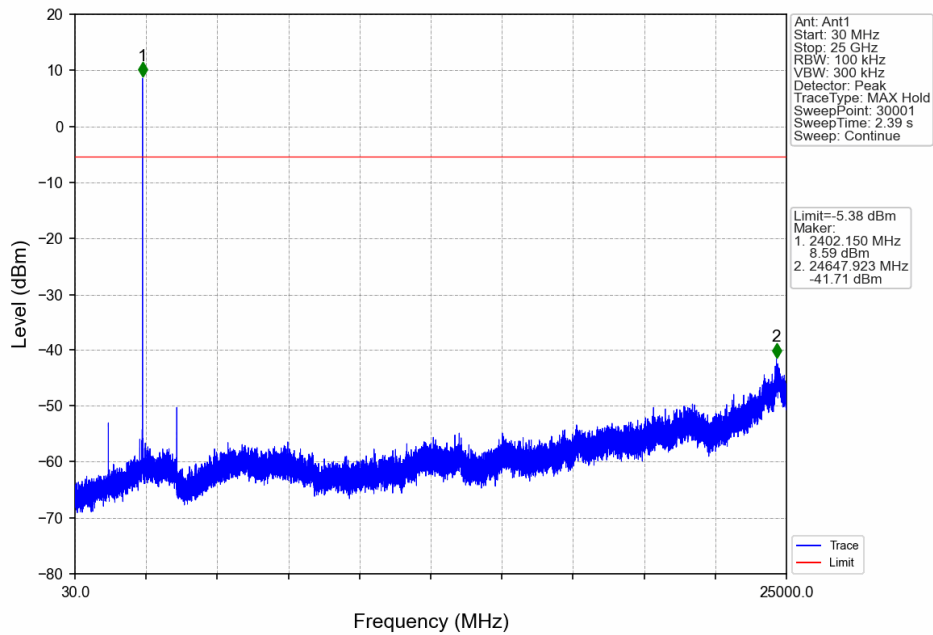
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Page: 116 of 171

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



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



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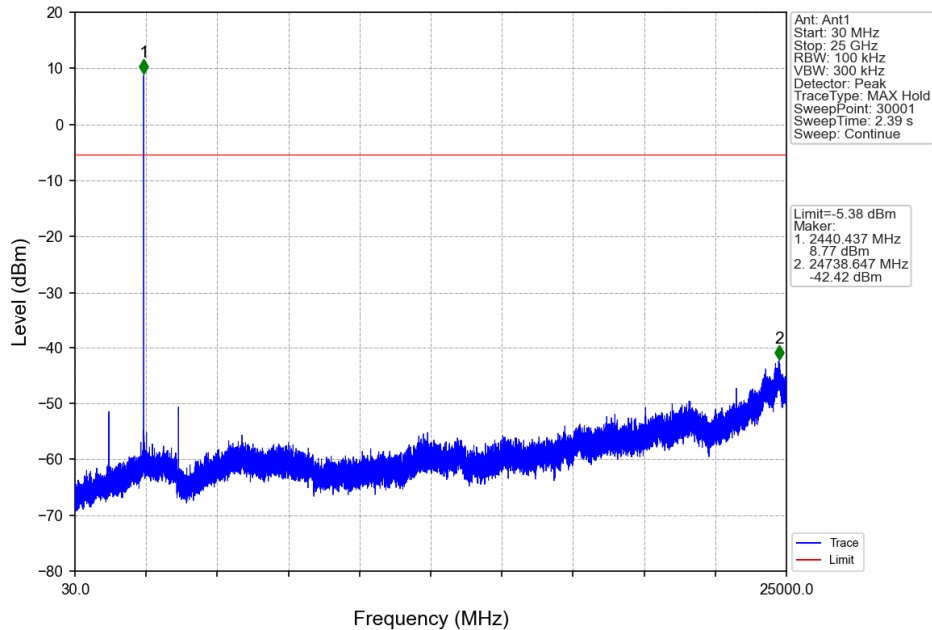
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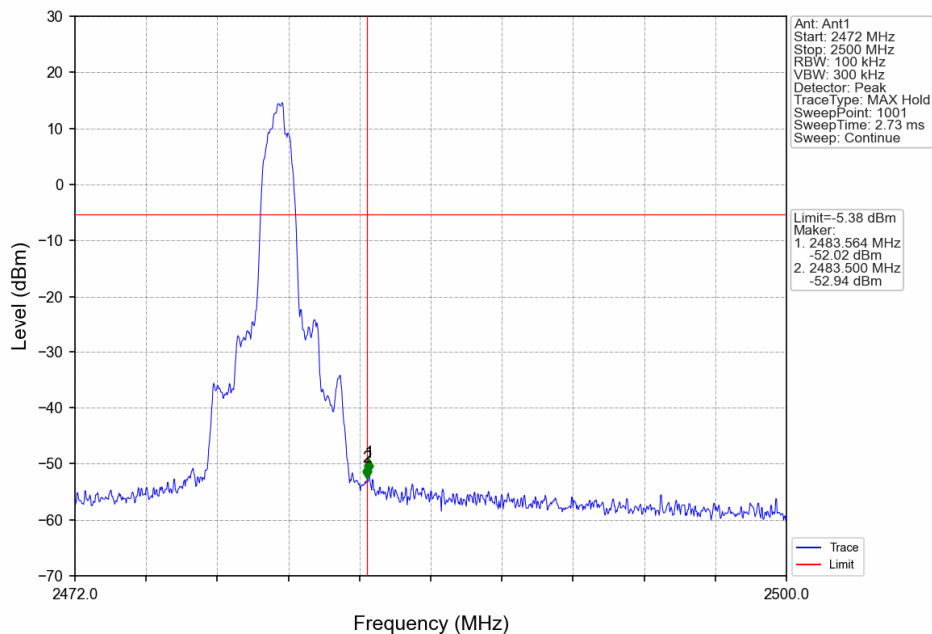
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Page: 117 of 171

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



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



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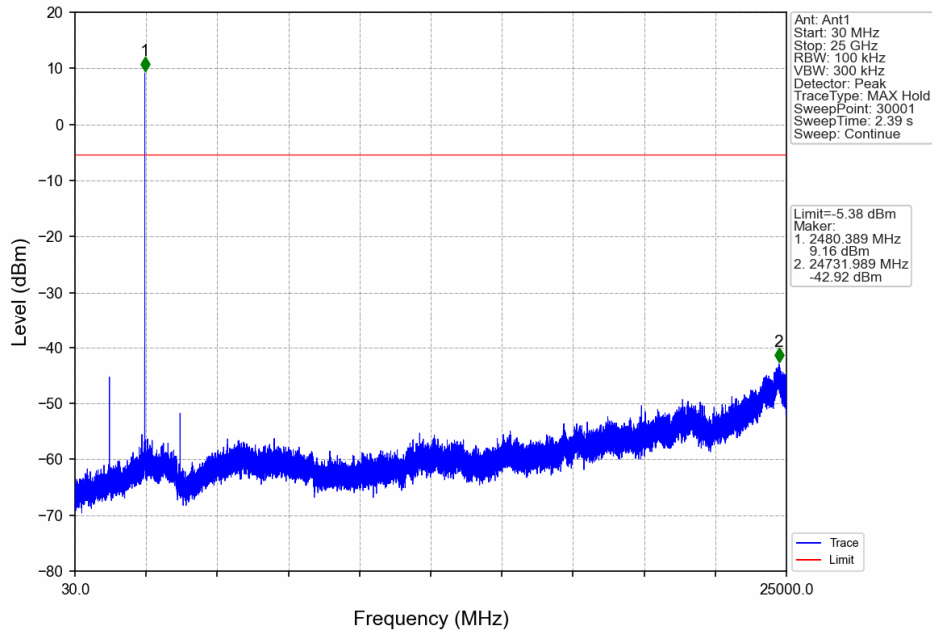
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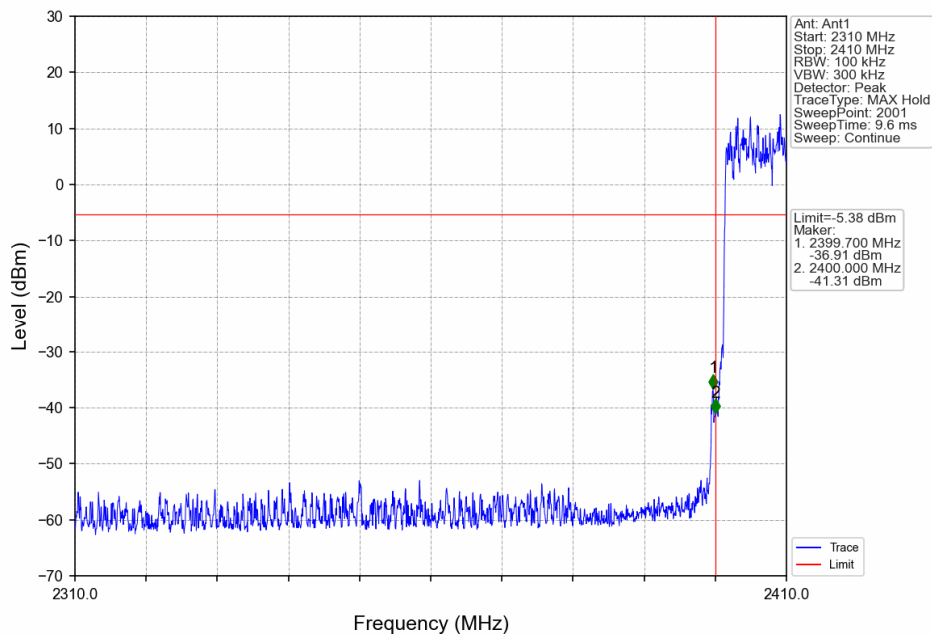
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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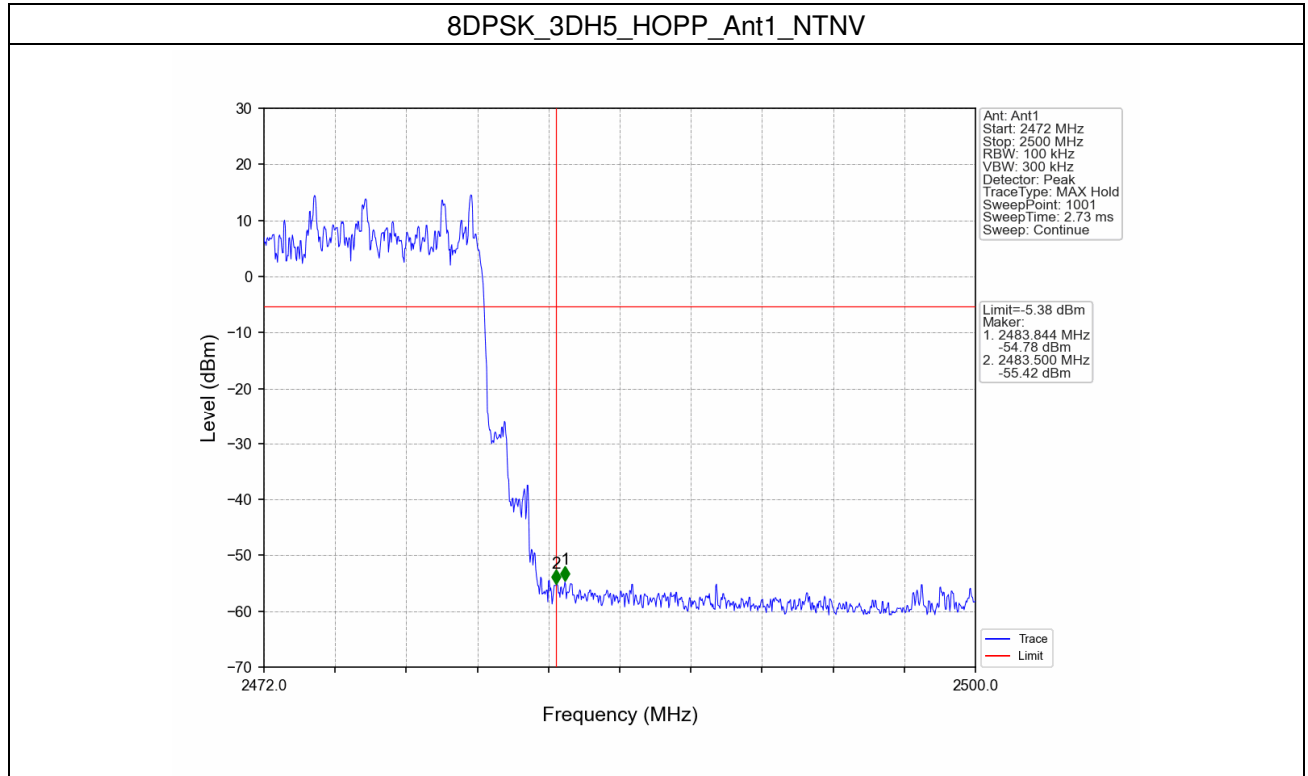


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Report No.: FYCR230200004902

Page: 120 of 171

### 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	5.000	57.78	2.38	0.04
		2441	DH5	2.898	5.000	57.96	2.37	0.04
		2480	DH5	2.899	5.002	57.96	2.37	0.02
Pi/4DQPSK	SISO	2402	2DH5	2.904	5.001	58.07	2.36	0.06
		2441	2DH5	2.903	5.000	58.06	2.36	0.06
		2480	2DH5	2.894	5.000	57.88	2.37	0.04
8DPSK	SISO	2402	3DH5	2.906	5.001	58.11	2.36	0.04
		2441	3DH5	2.895	4.999	57.91	2.37	0.04
		2480	3DH5	2.894	5.000	57.88	2.37	0.04



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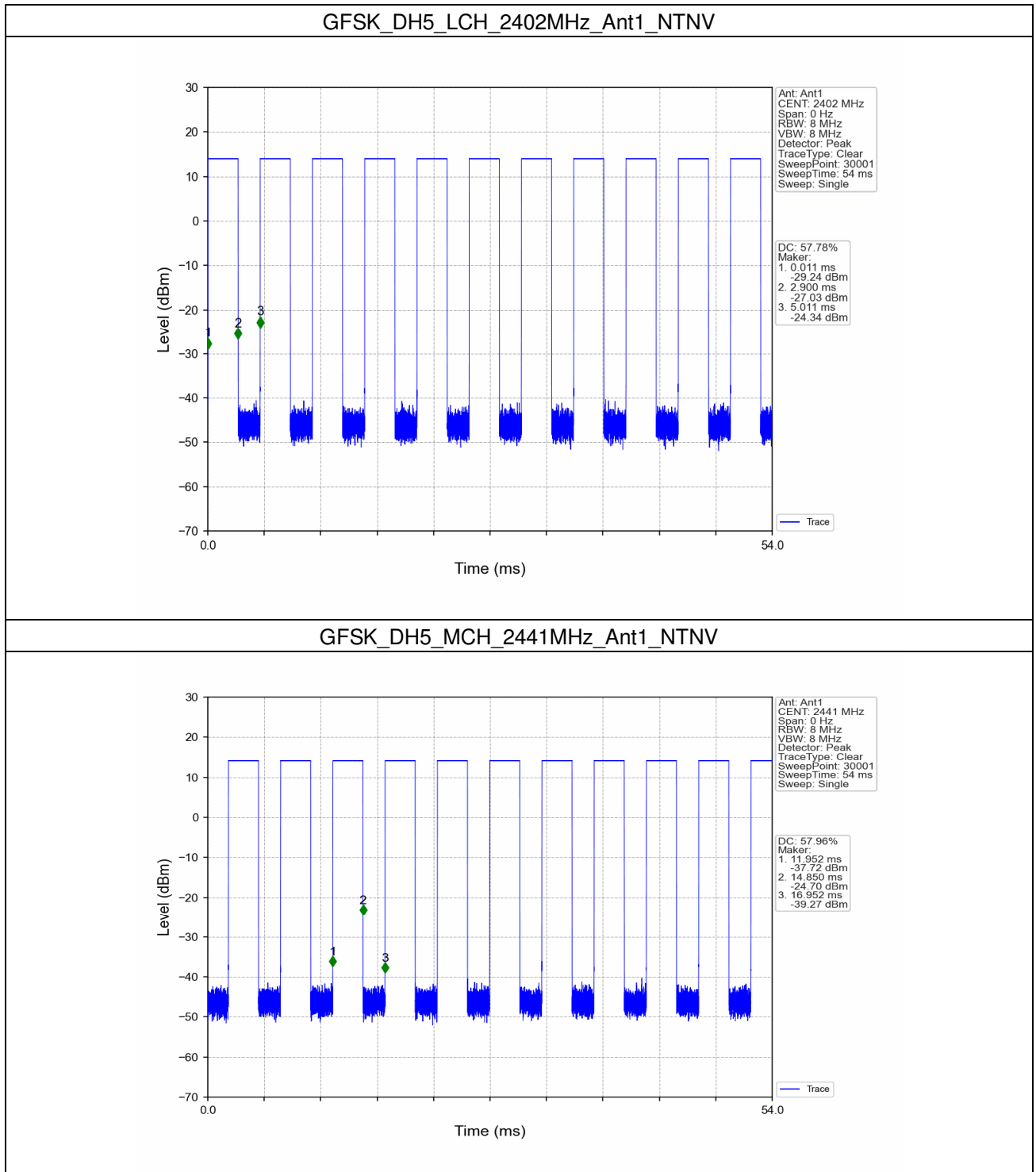
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Page: 121 of 171

### 1.1.2 Test Graph



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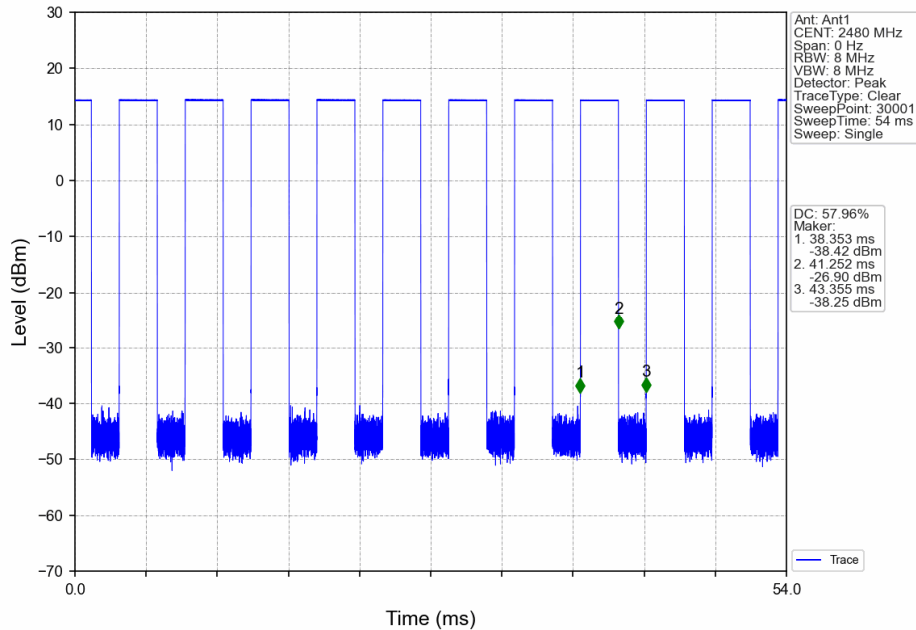
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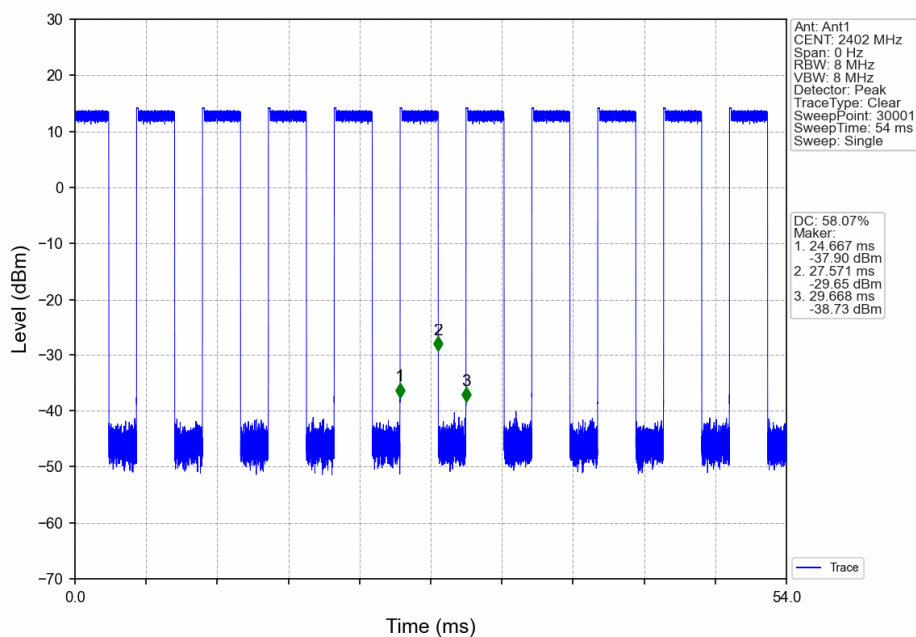
Report No.: FYCR230200004902

Page: 122 of 171

GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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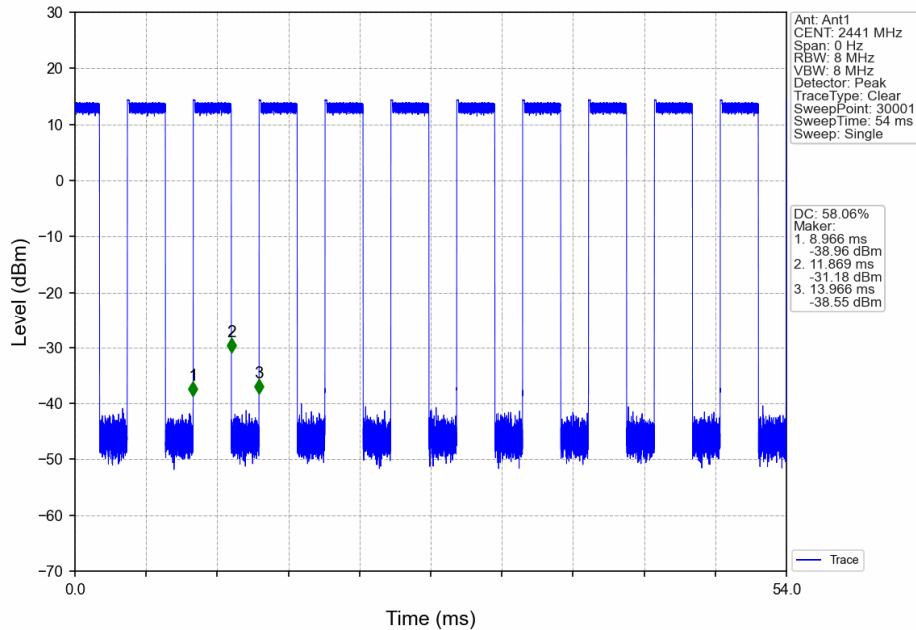
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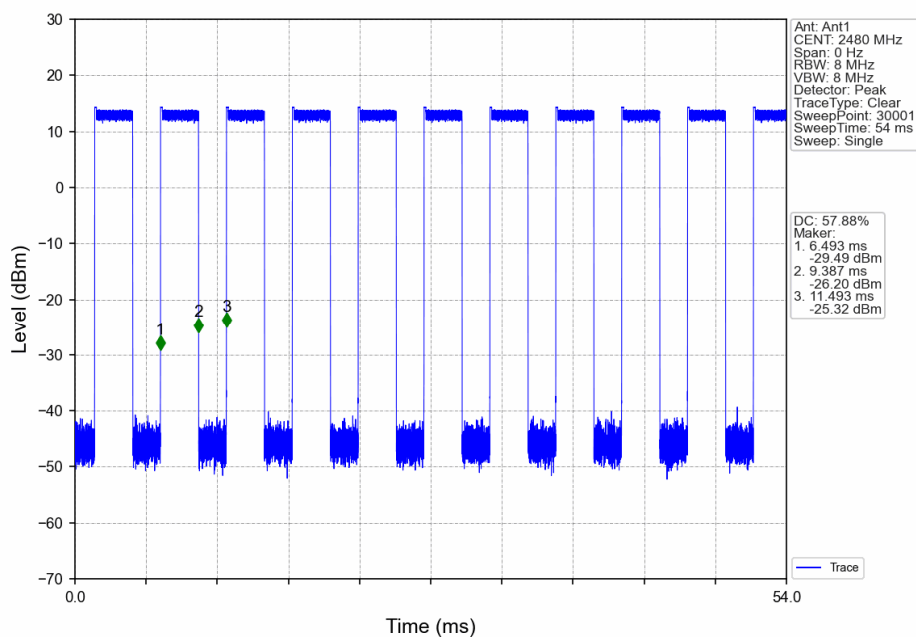
Report No.: FYCR230200004902

Page: 123 of 171

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



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



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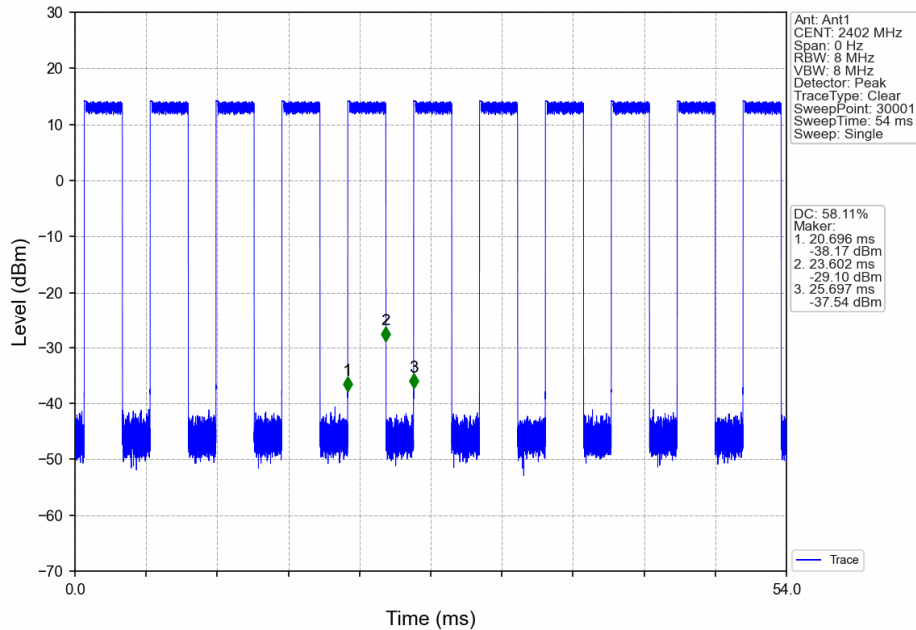
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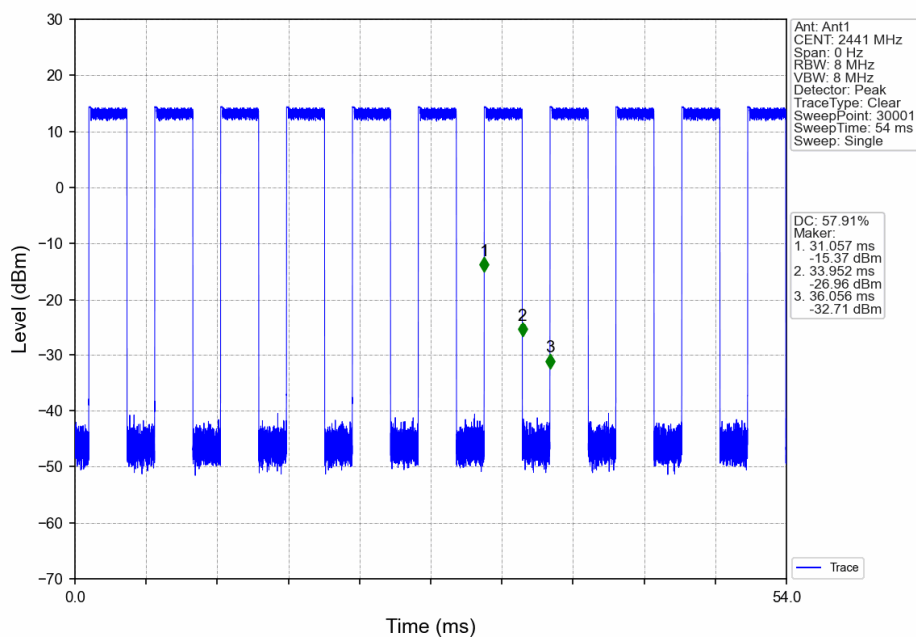
Report No.: FYCR230200004902

Page: 124 of 171

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



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



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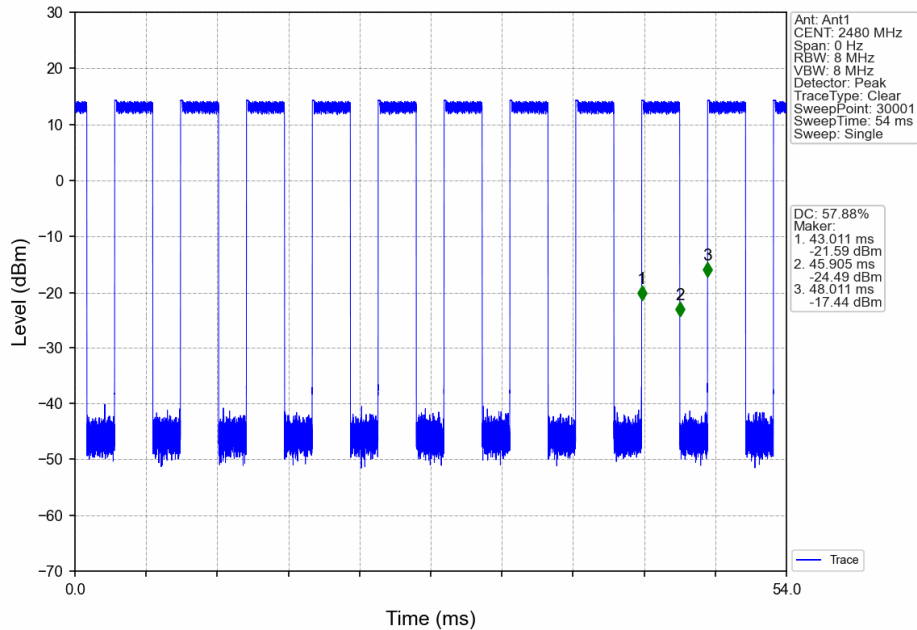
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 126 of 171

## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.939	Pass
		2441	DH5	1	0.939	Pass
		2480	DH5	1	0.945	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.139	Pass
		2441	2DH5	1	1.186	Pass
		2480	2DH5	1	1.139	Pass
8DPSK	SISO	2402	3DH5	1	1.152	Pass
		2441	3DH5	1	1.148	Pass
		2480	3DH5	1	1.152	Pass



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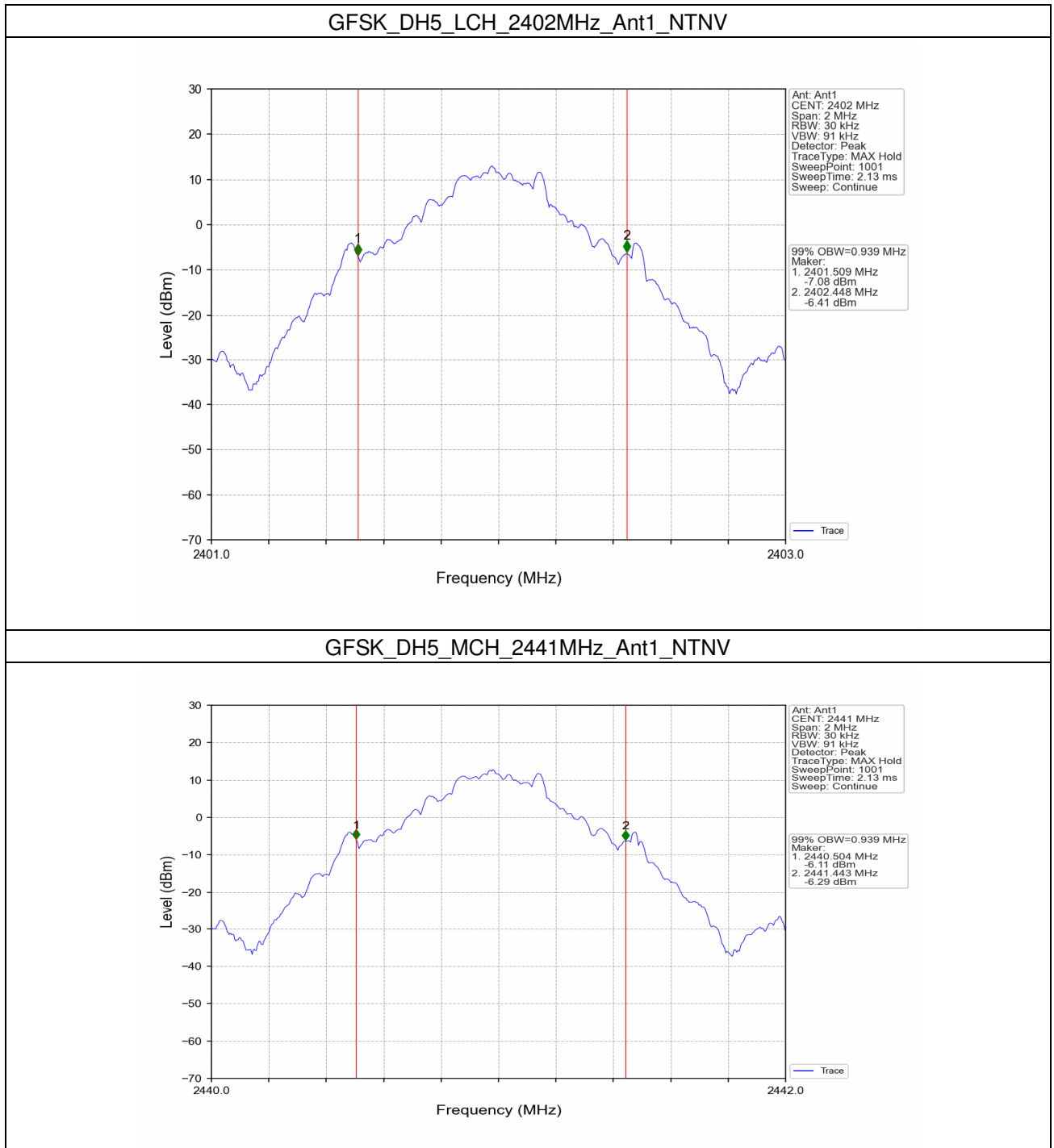
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Page: 127 of 171

### 2.1.2 Test Graph



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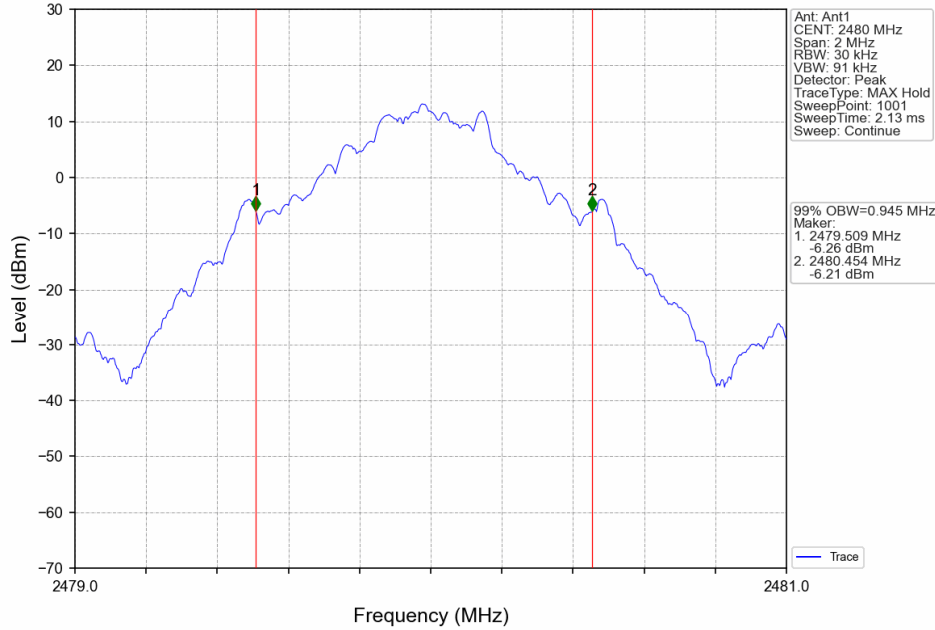
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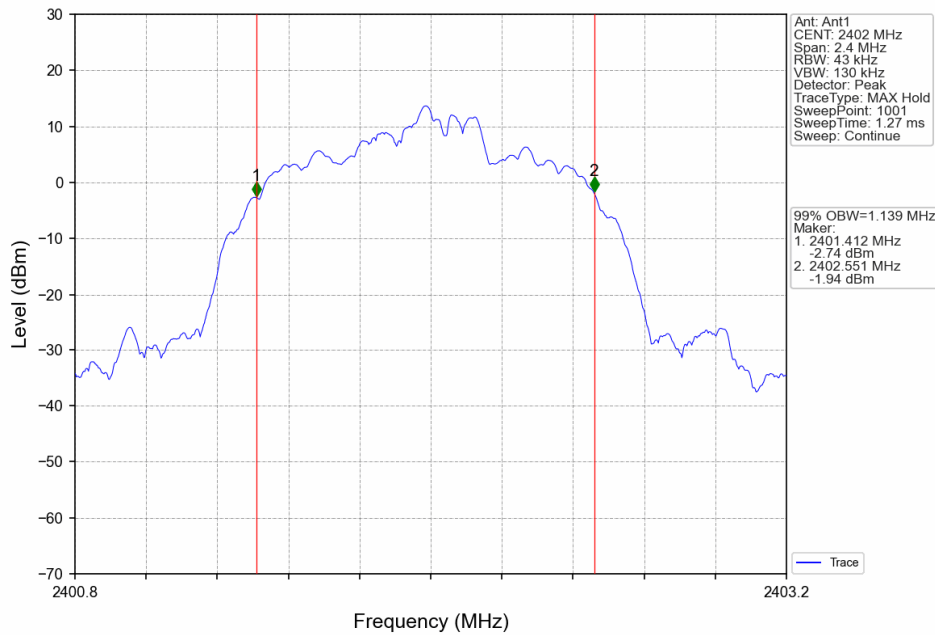
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Page: 128 of 171

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



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



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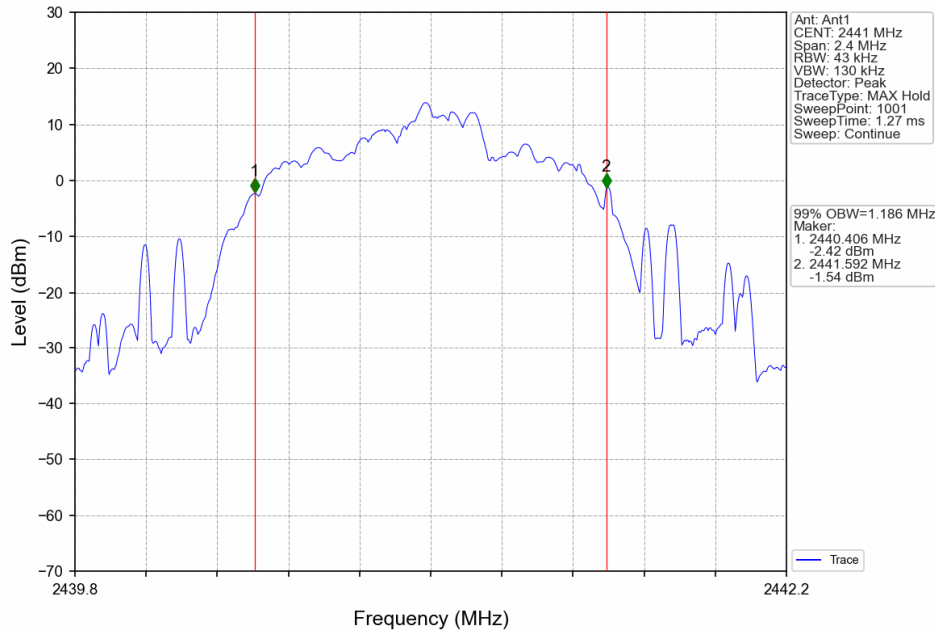
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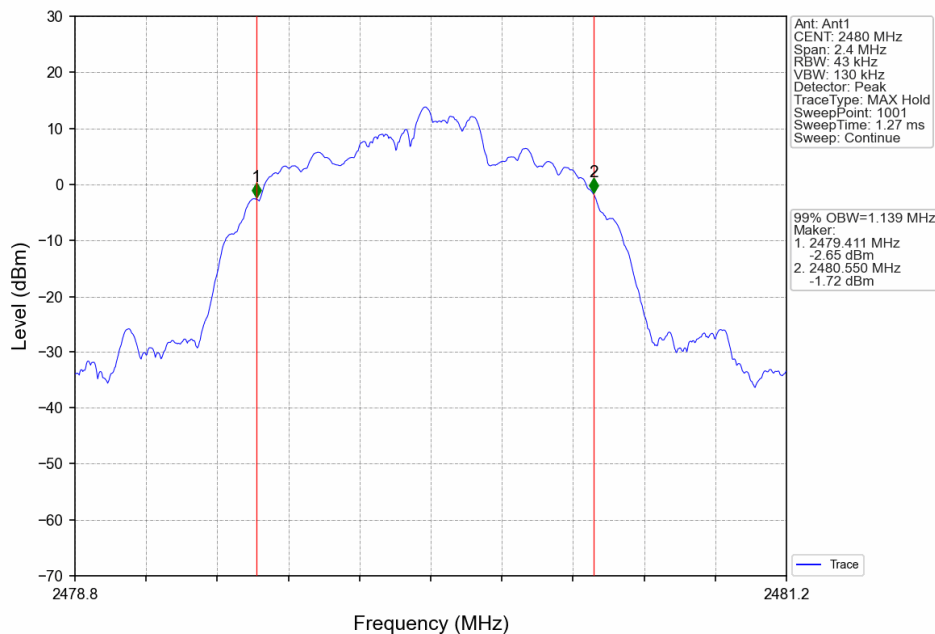
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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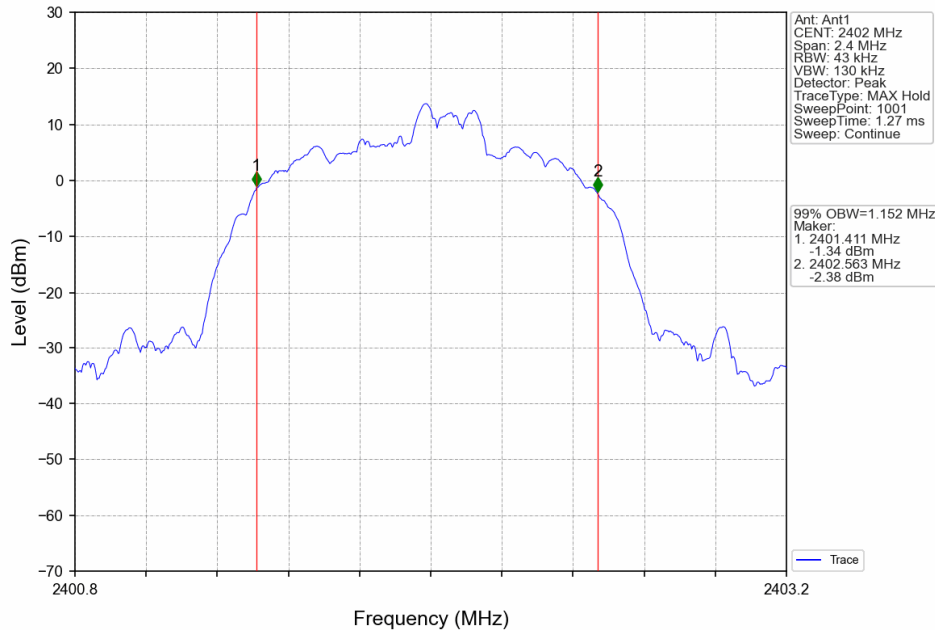
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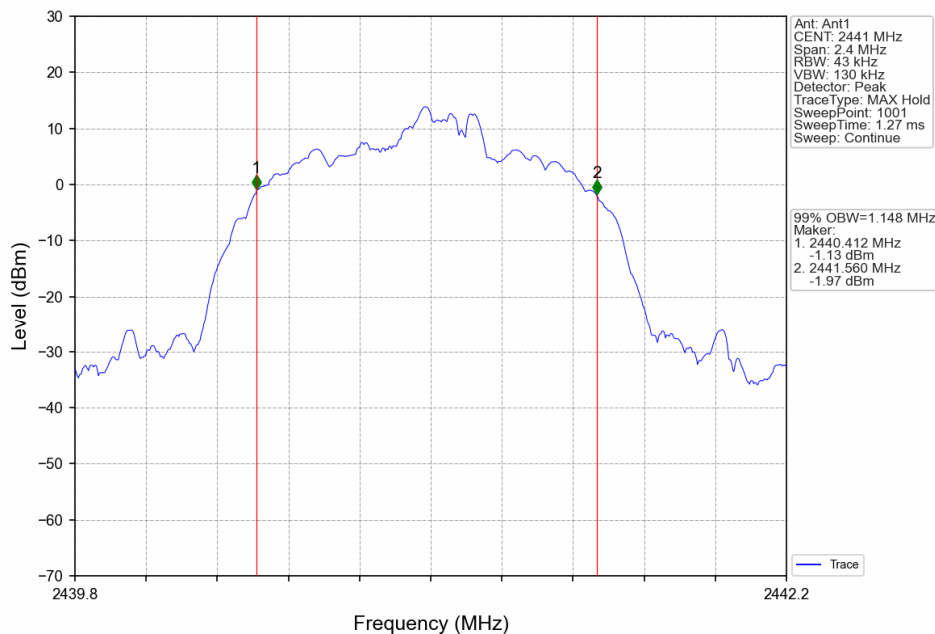
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Page: 130 of 171

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



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



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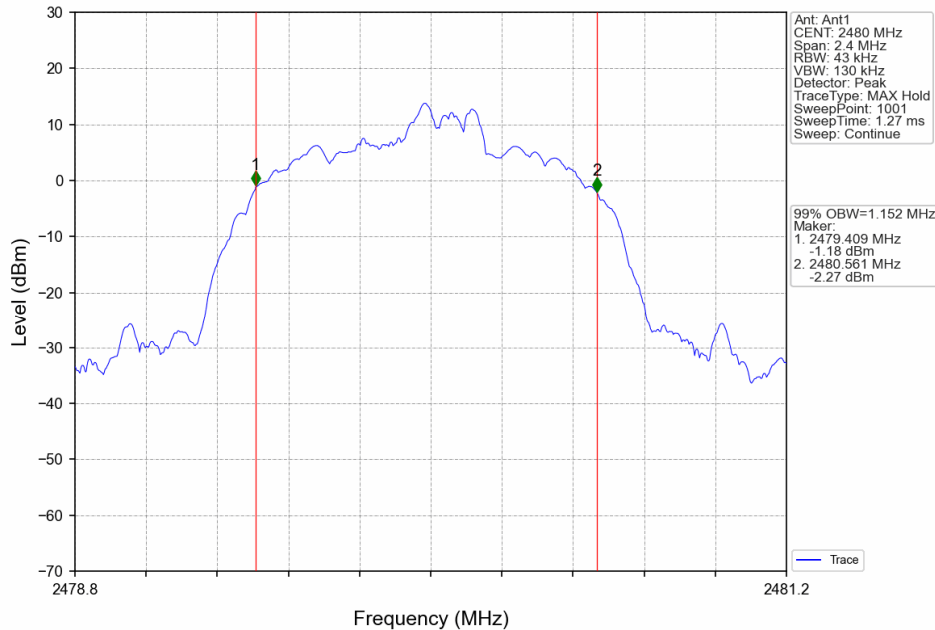
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Page: 131 of 171

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 132 of 171

### 2.2 20dB BW

#### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.047	Pass
		2441	DH5	1	1.021	Pass
		2480	DH5	1	1.045	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.250	Pass
		2441	2DH5	1	1.251	Pass
		2480	2DH5	1	1.260	Pass
8DPSK	SISO	2402	3DH5	1	1.277	Pass
		2441	3DH5	1	1.276	Pass
		2480	3DH5	1	1.276	Pass



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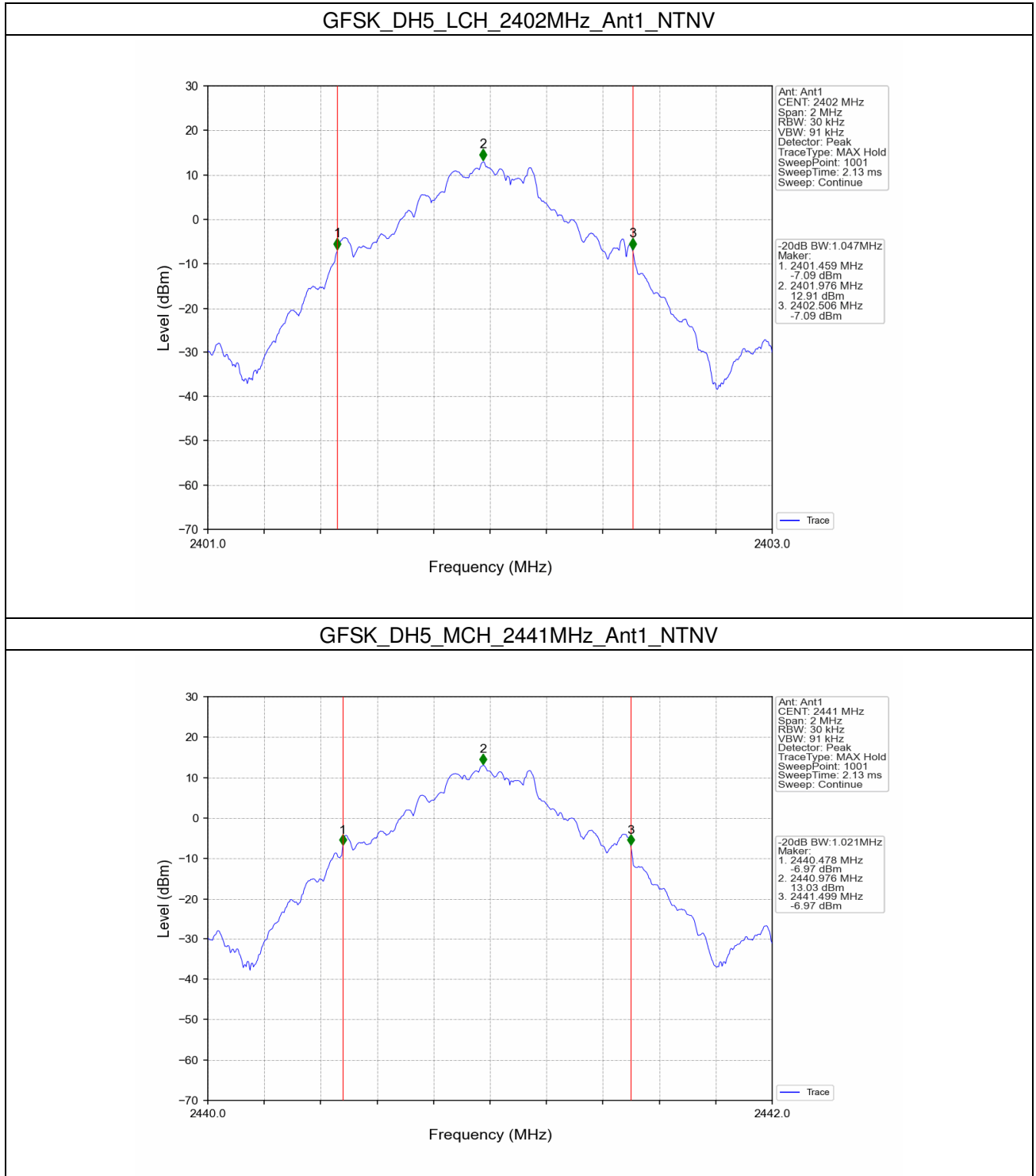
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 133 of 171

### 2.2.2 Test Graph



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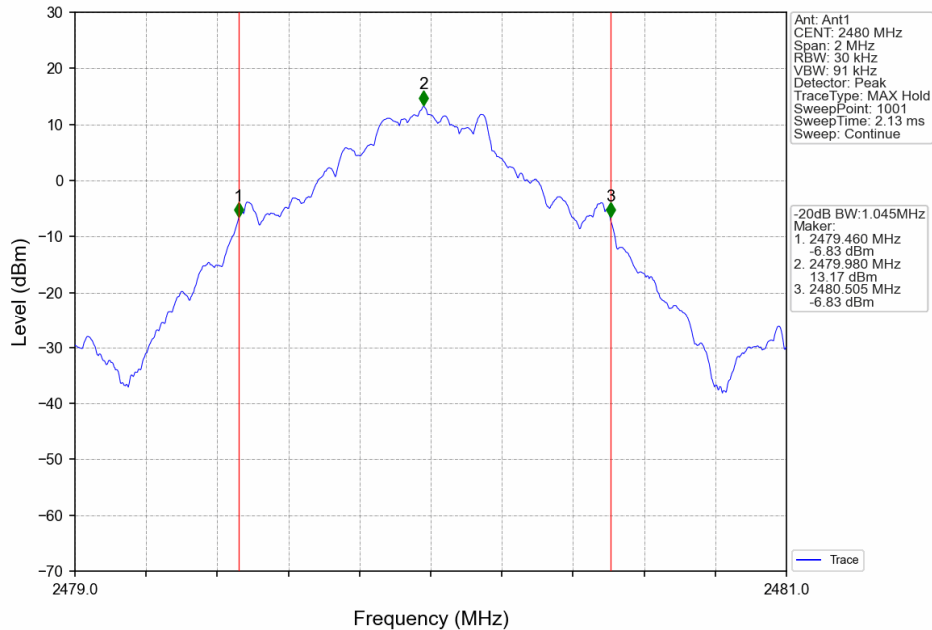
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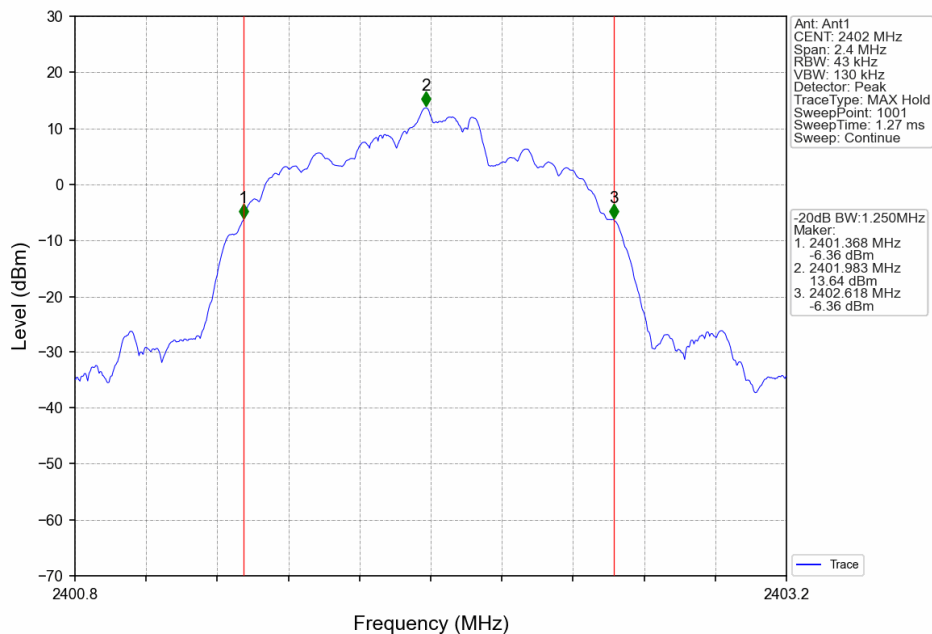
Report No.: FYCR230200004902

Page: 134 of 171

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



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



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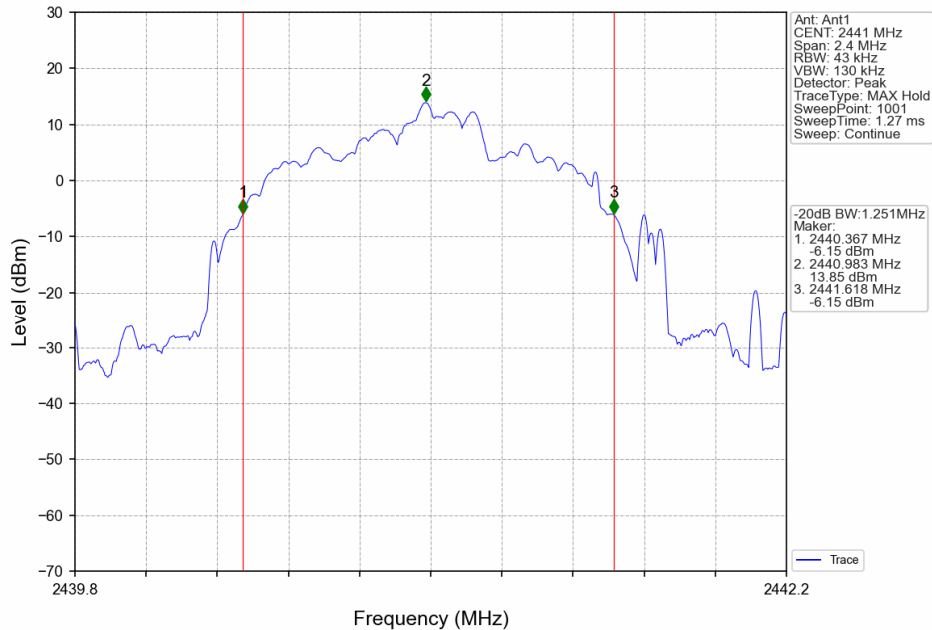
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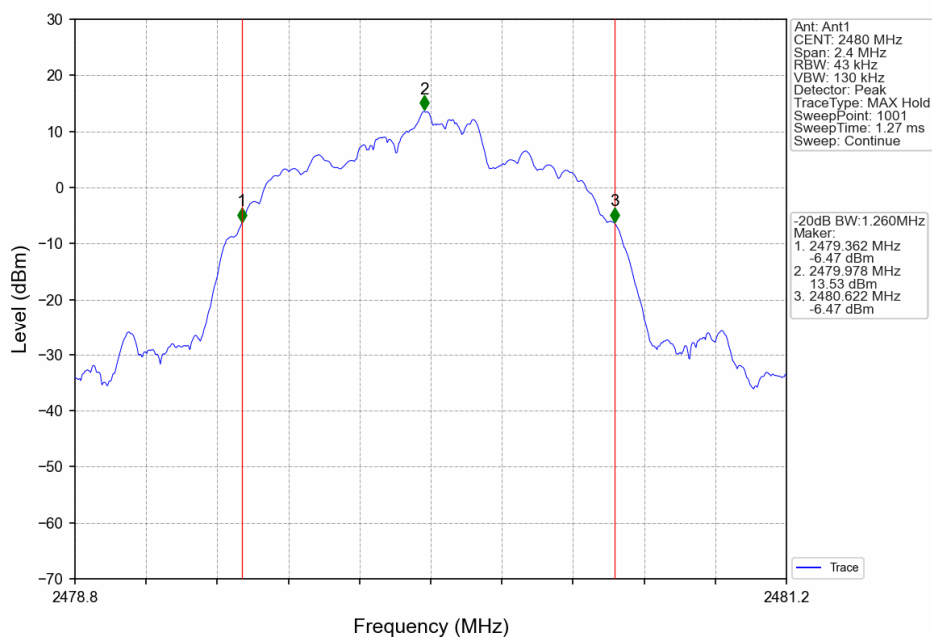
Report No.: FYCR230200004902

Page: 135 of 171

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



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



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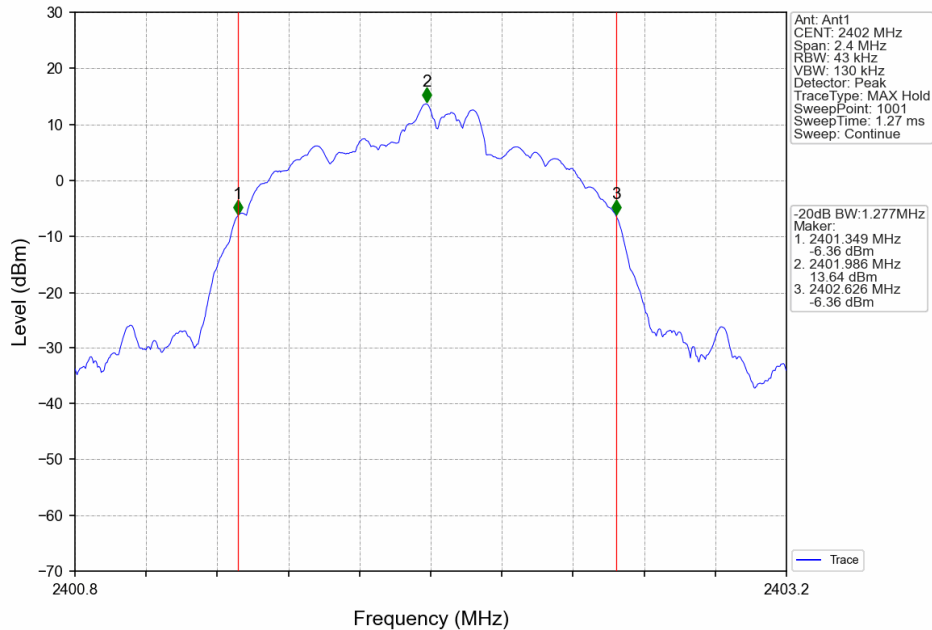
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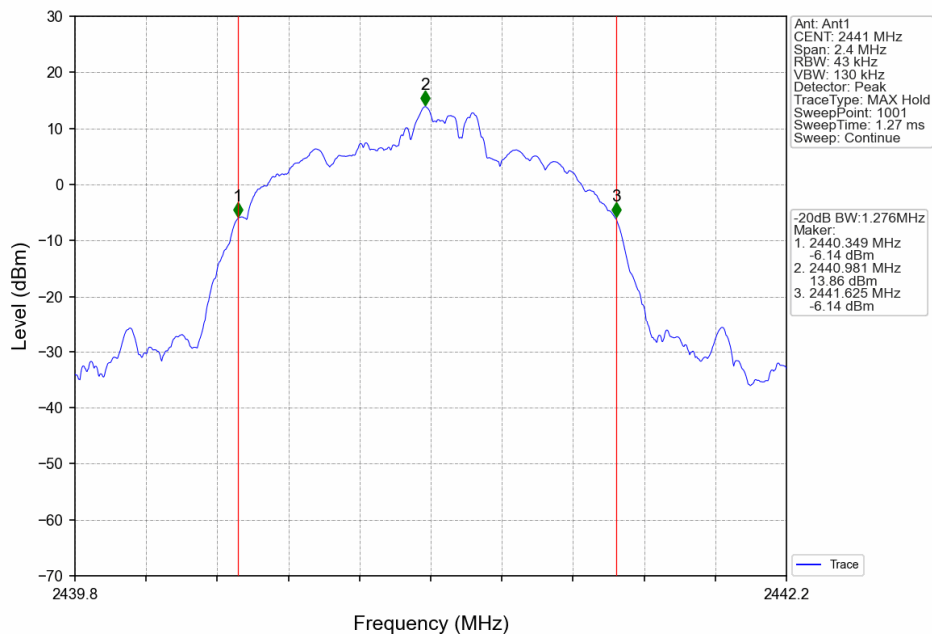
Report No.: FYCR230200004902

Page: 136 of 171

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



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



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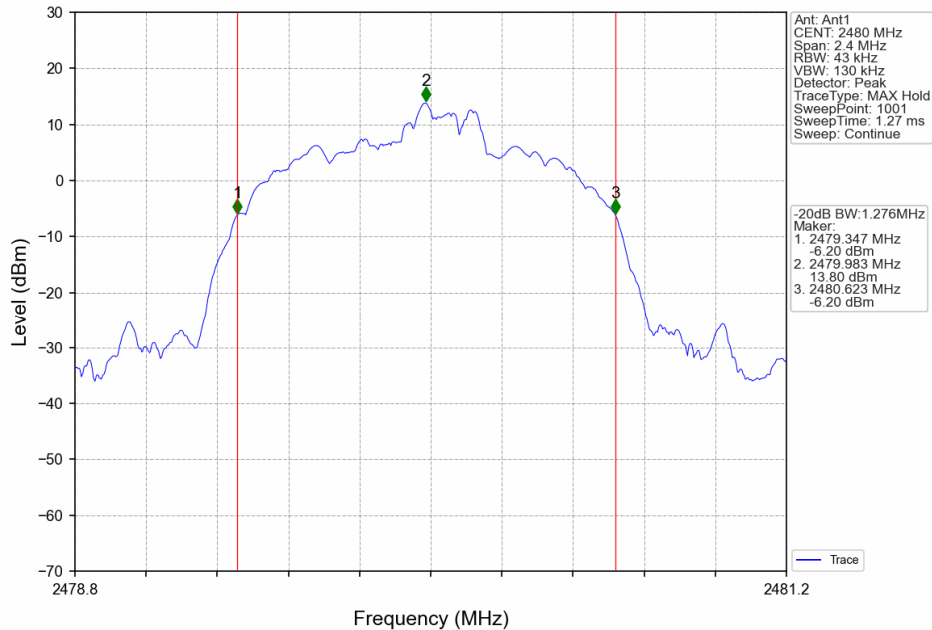
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Page: 137 of 171

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



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 138 of 171

### 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	14.04	$\leq 20.97$	Pass
		2441	DH5	14.17	$\leq 20.97$	Pass
		2480	DH5	14.36	$\leq 20.97$	Pass
Pi/4DQPSK	SISO	2402	2DH5	14.19	$\leq 20.97$	Pass
		2441	2DH5	14.38	$\leq 20.97$	Pass
		2480	2DH5	14.31	$\leq 20.97$	Pass
8DPSK	SISO	2402	3DH5	14.20	$\leq 20.97$	Pass
		2441	3DH5	14.38	$\leq 20.97$	Pass
		2480	3DH5	14.30	$\leq 20.97$	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	1.000	1.047	$\geq 0.698$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.994	1.260	$\geq 0.84$	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.277	$\geq 0.851$	Pass



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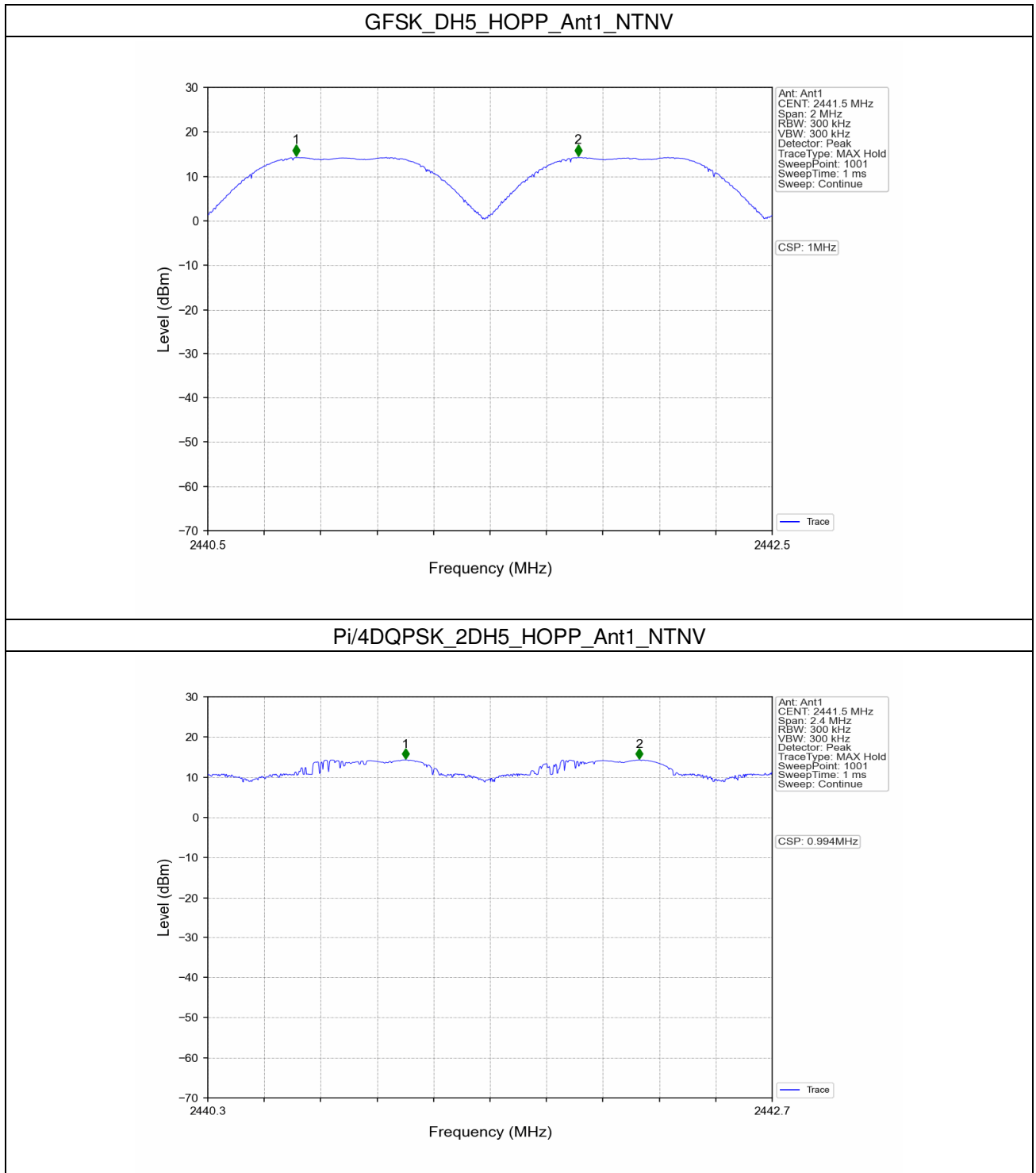
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Page: 139 of 171

### 4.1.2 Test Graph



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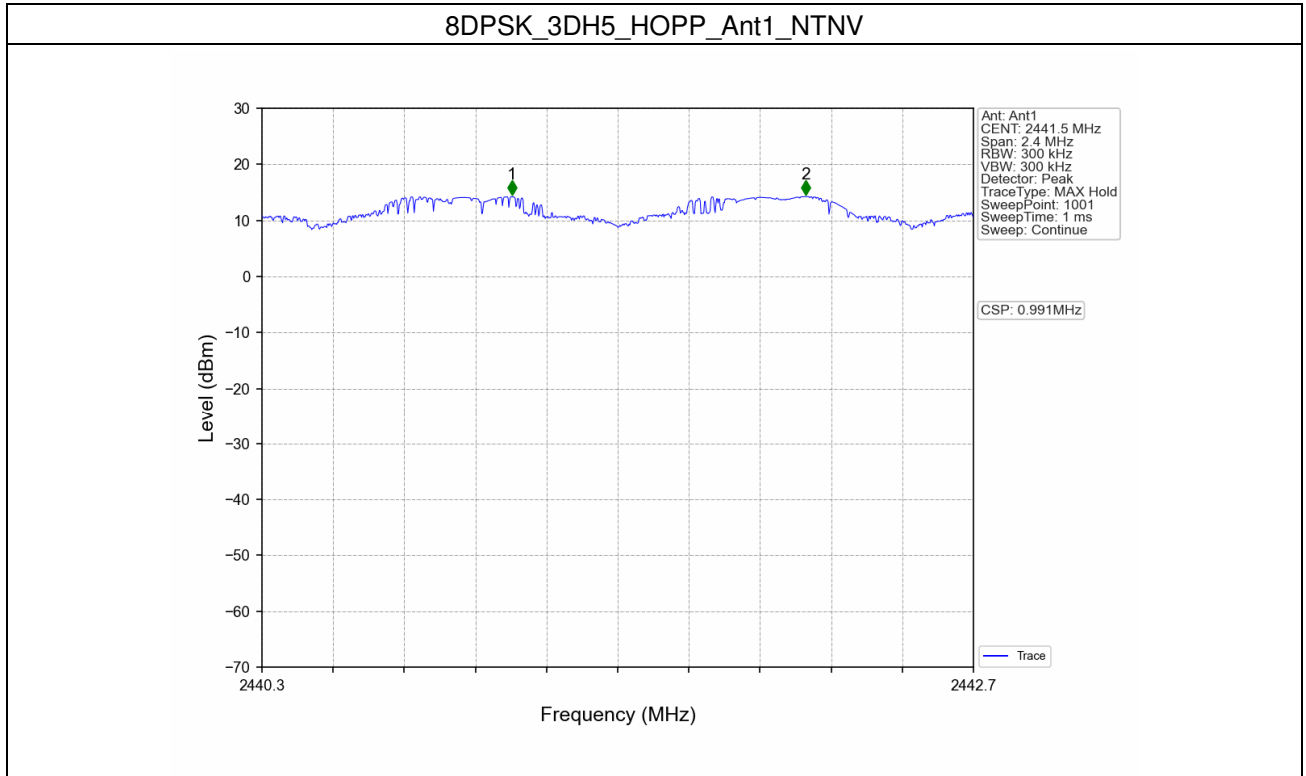
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 141 of 171

## 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



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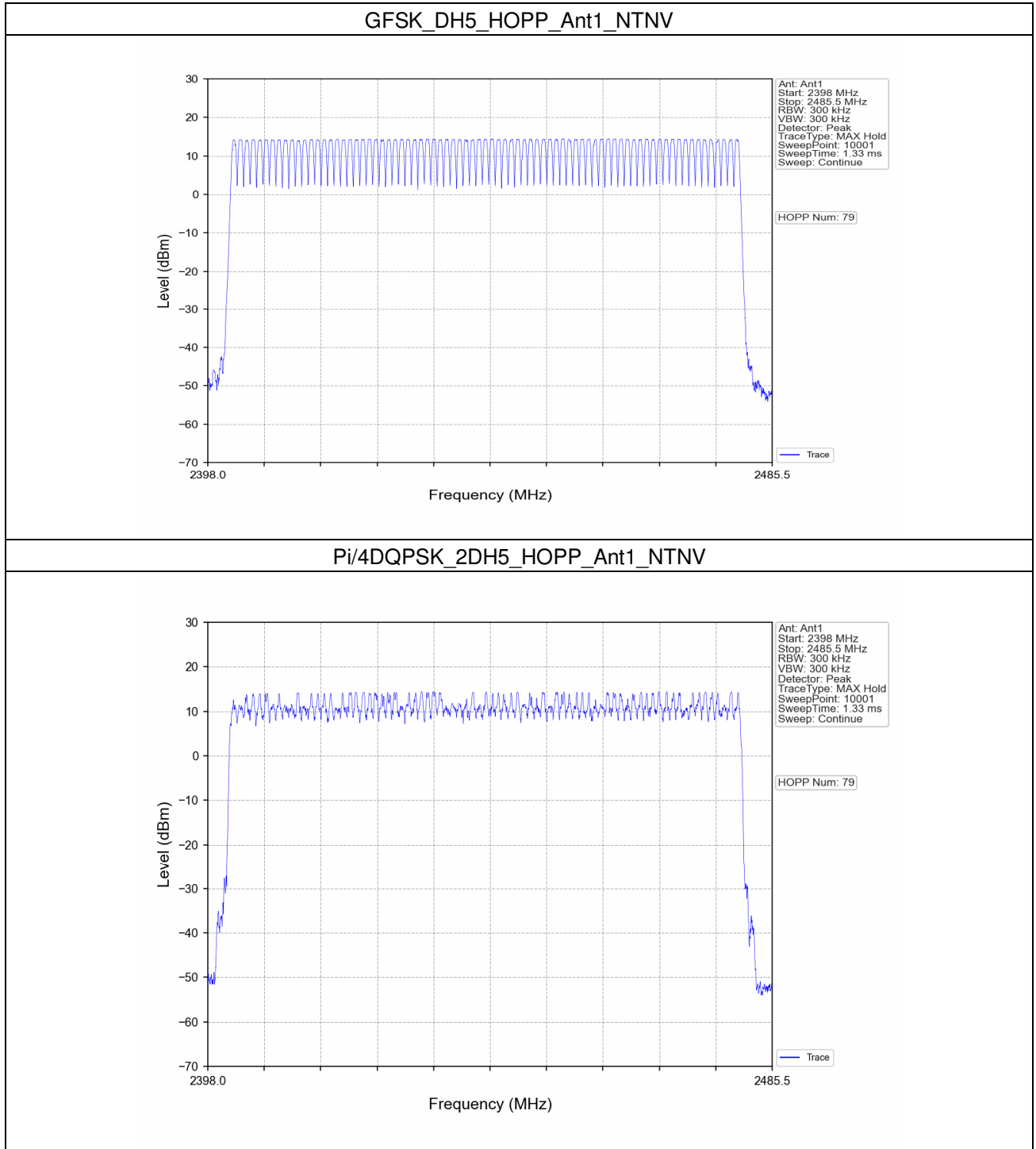
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Report No.: FYCR230200004902

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### 5.1.2 Test Graph



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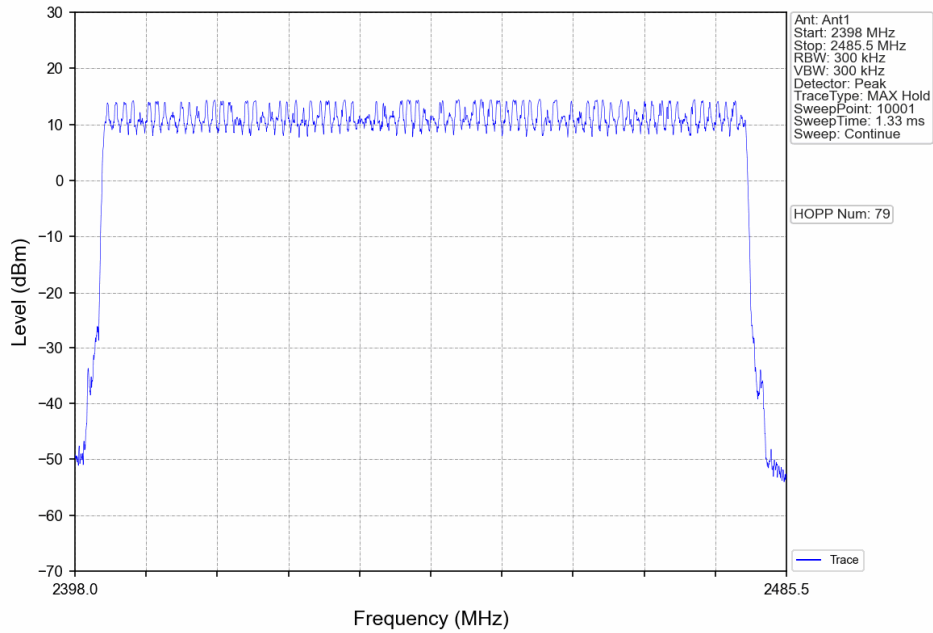
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 143 of 171

8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 144 of 171

### 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	0.388	31.600	150	58.200	<=400	Pass
			DH3	1.644	31.600	114	187.416	<=400	Pass
			DH5	2.888	31.600	82	236.816	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.406	31.600	151	61.306	<=400	Pass
			2DH3	1.658	31.600	115	190.670	<=400	Pass
			2DH5	2.892	31.600	81	234.252	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	170	66.640	<=400	Pass
			3DH3	1.654	31.600	111	183.594	<=400	Pass
			3DH5	2.906	31.600	88	255.728	<=400	Pass



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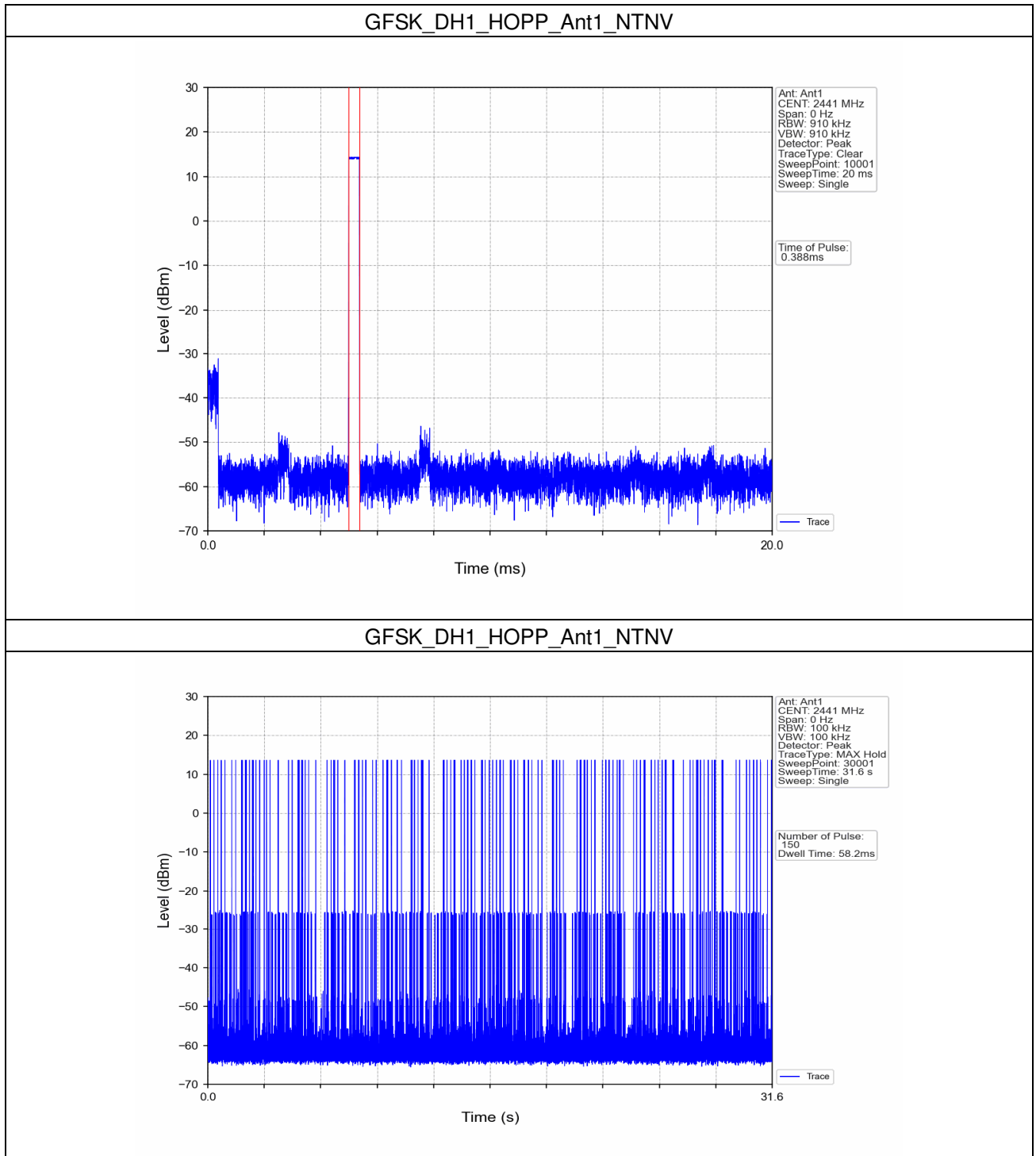
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Report No.: FYCR230200004902

Page: 145 of 171

### 6.1.2 Test Graph



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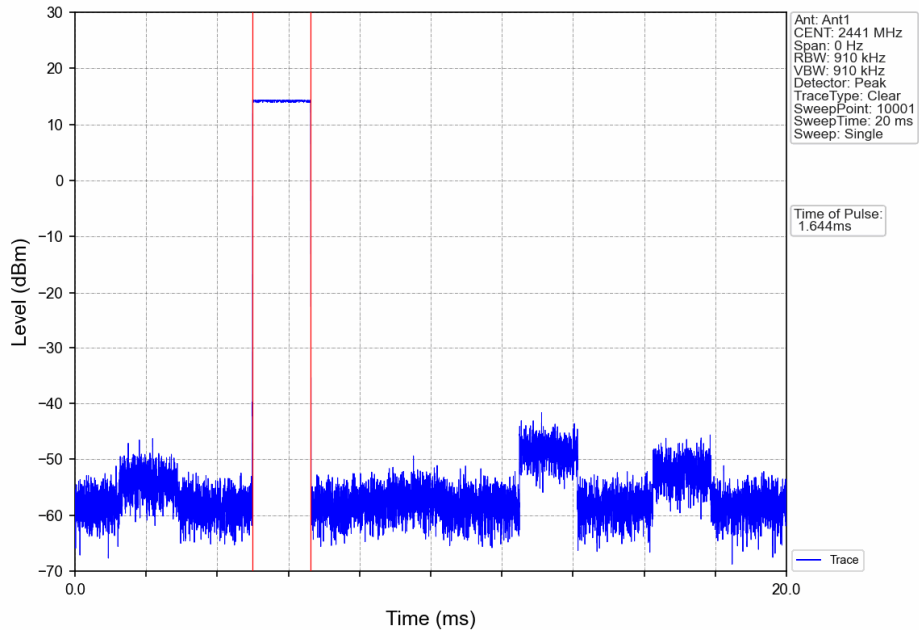
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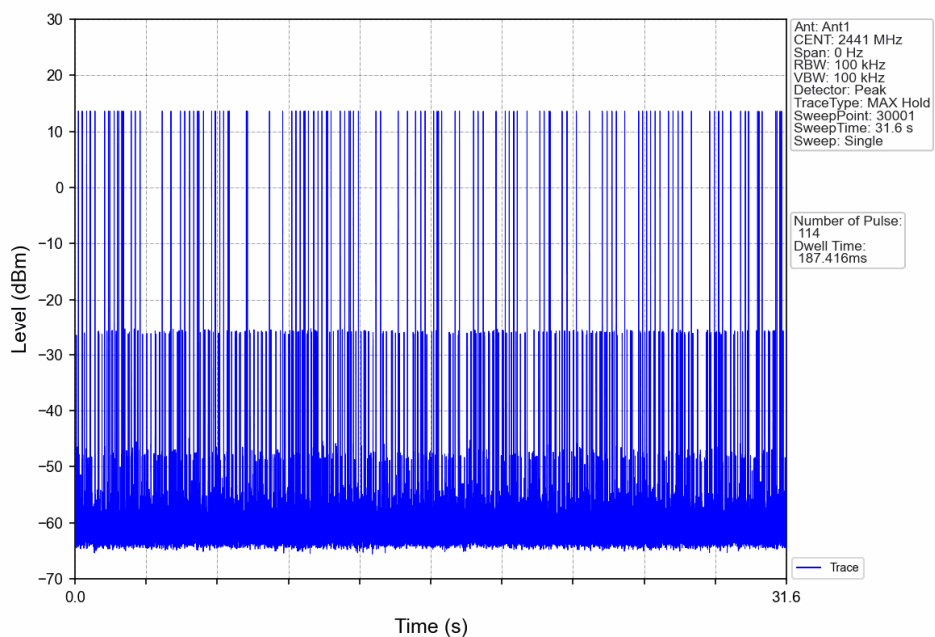
Report No.: FYCR230200004902

Page: 146 of 171

GFSK\_DH3\_HOPP\_Ant1\_NTNV



GFSK\_DH3\_HOPP\_Ant1\_NTNV



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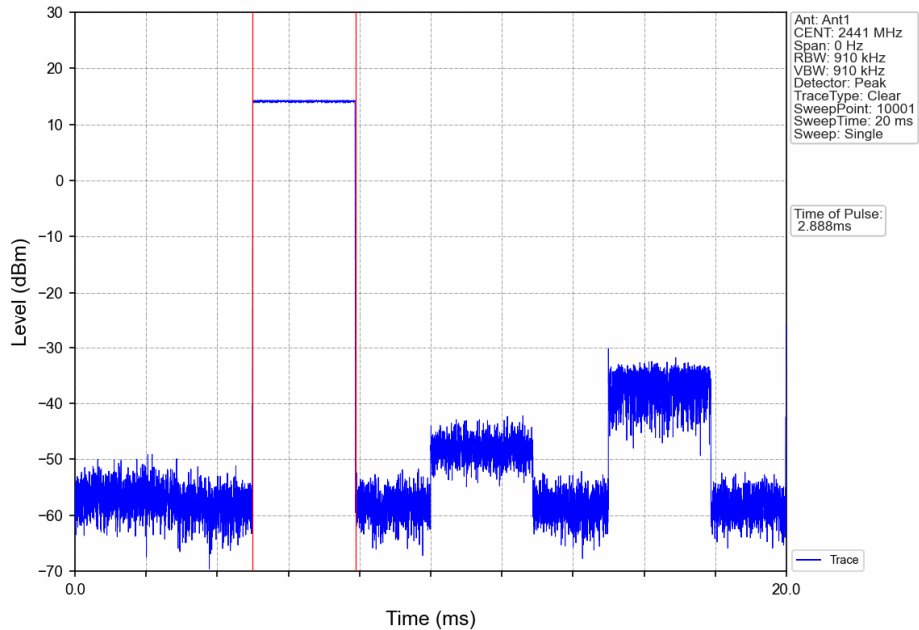
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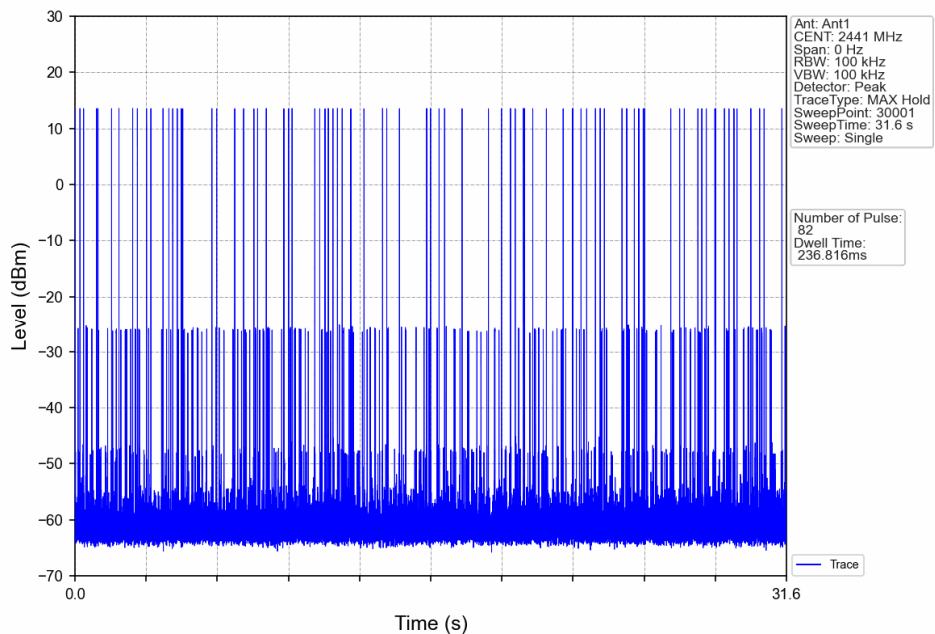
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Page: 147 of 171

GFSK\_DH5\_HOPP\_Ant1\_NTNV



GFSK\_DH5\_HOPP\_Ant1\_NTNV



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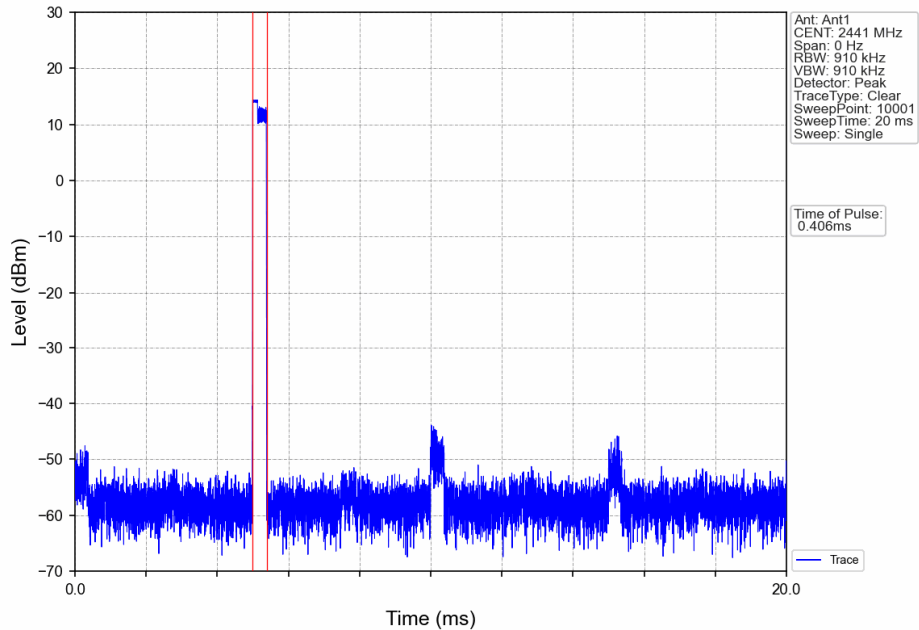
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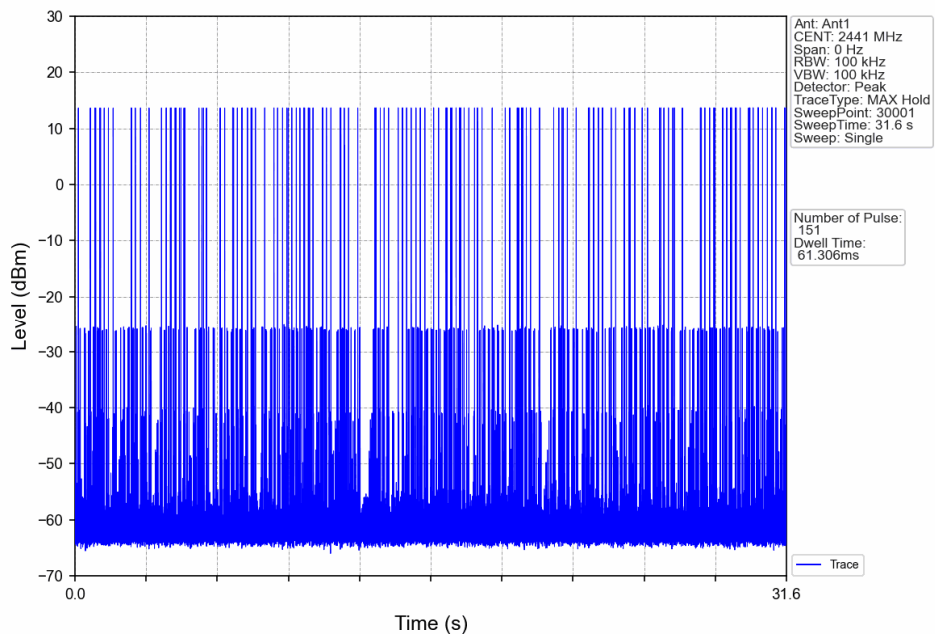
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Page: 148 of 171

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



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



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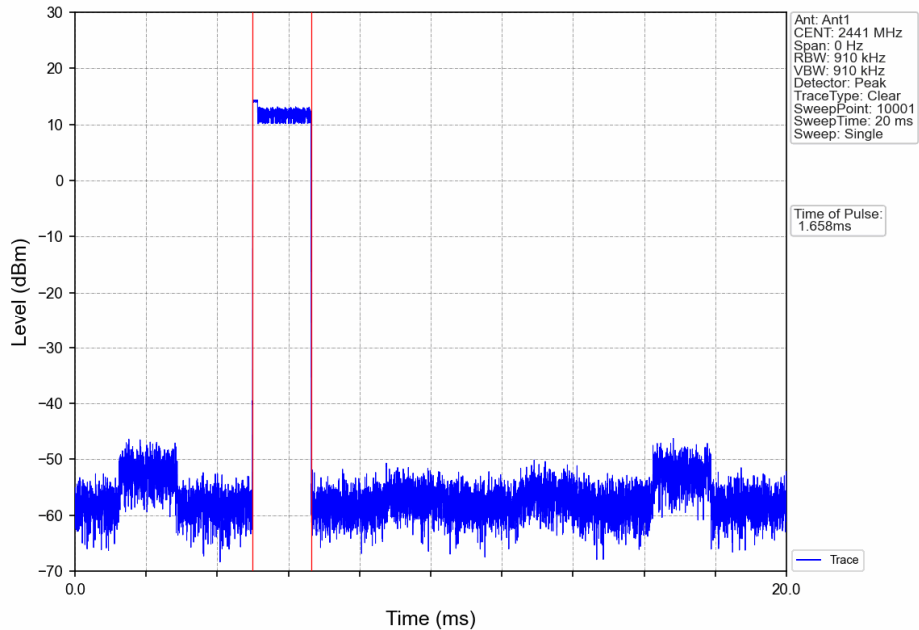
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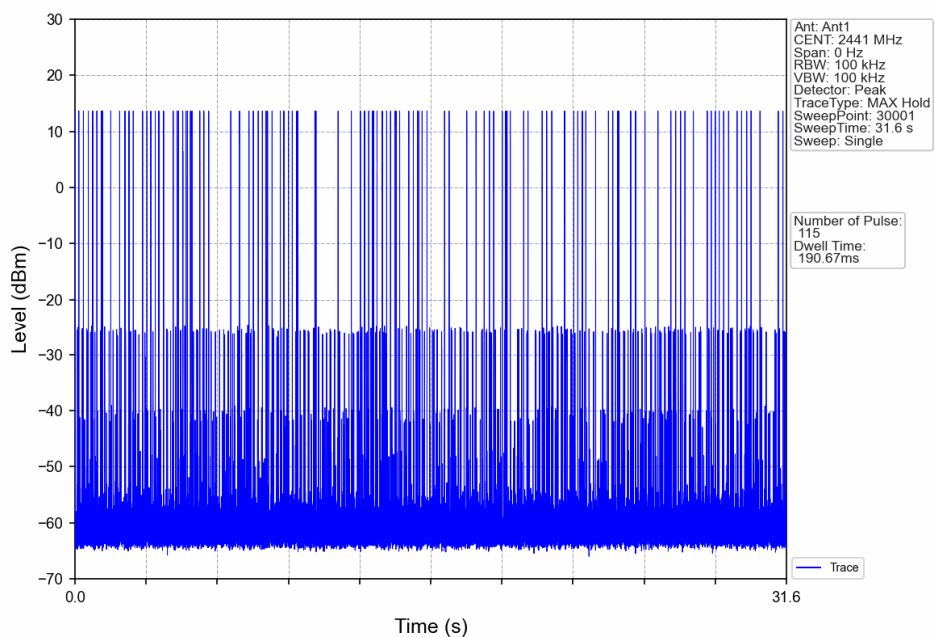
Report No.: FYCR230200004902

Page: 149 of 171

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



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



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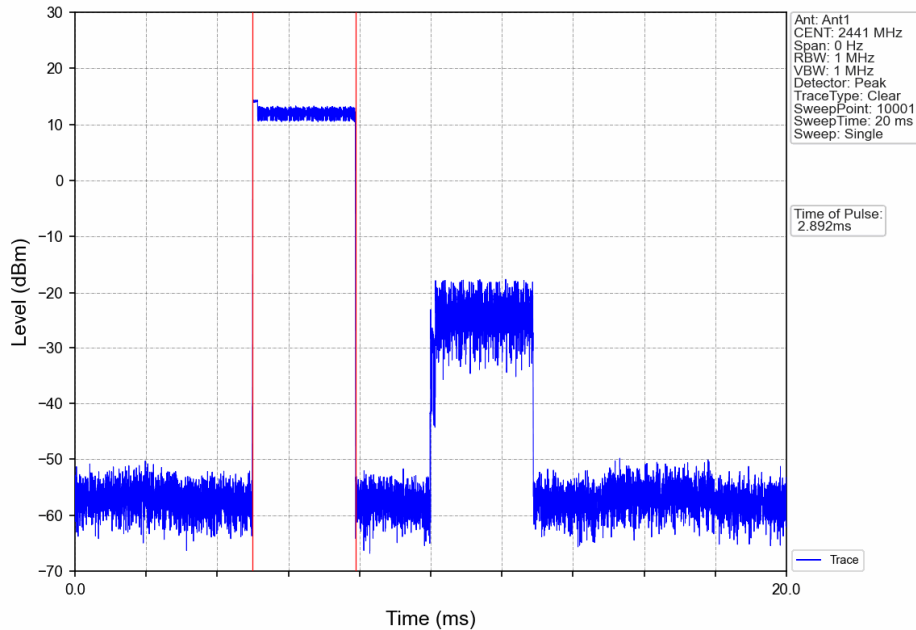
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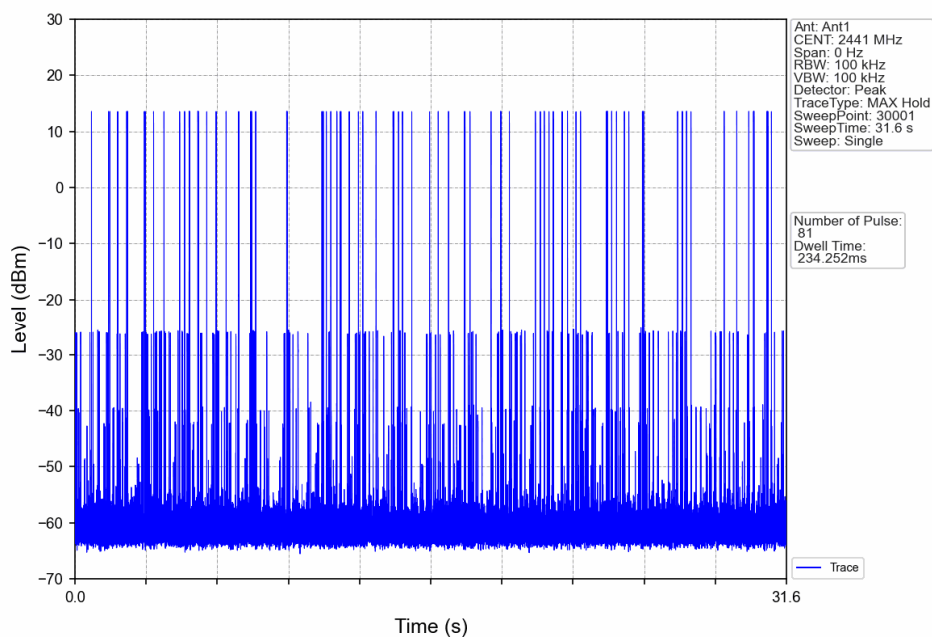
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Page: 150 of 171

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



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



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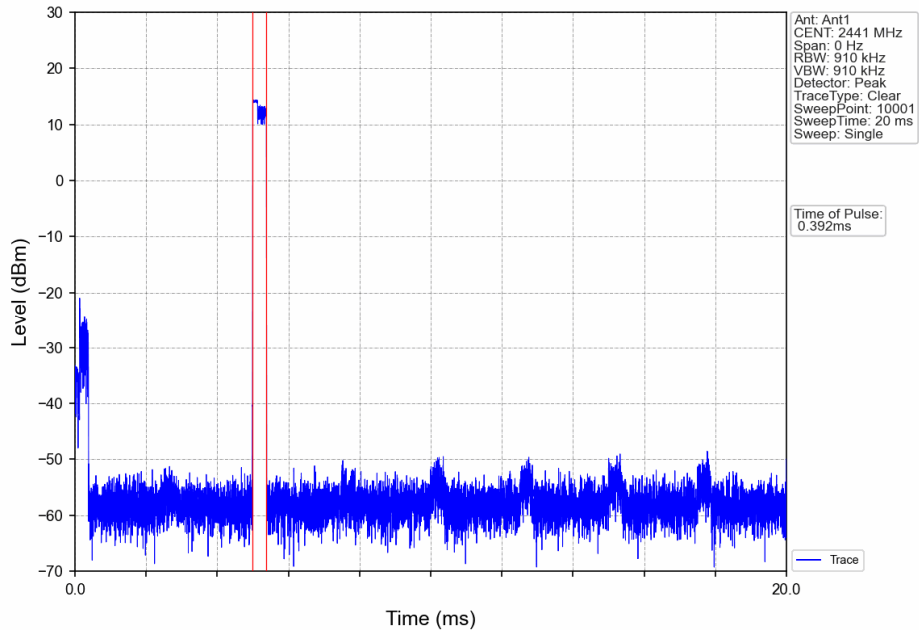
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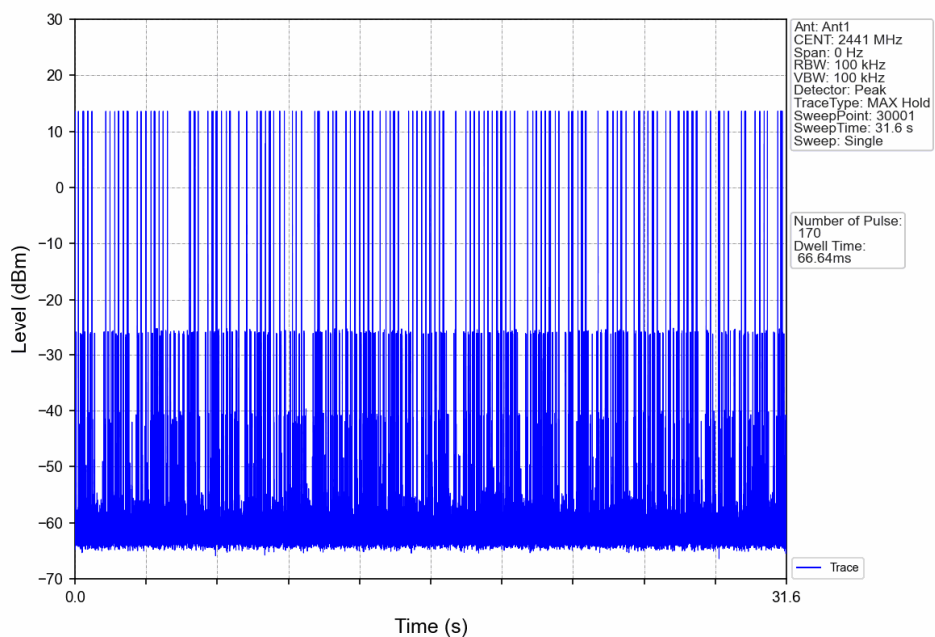
Report No.: FYCR230200004902

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8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



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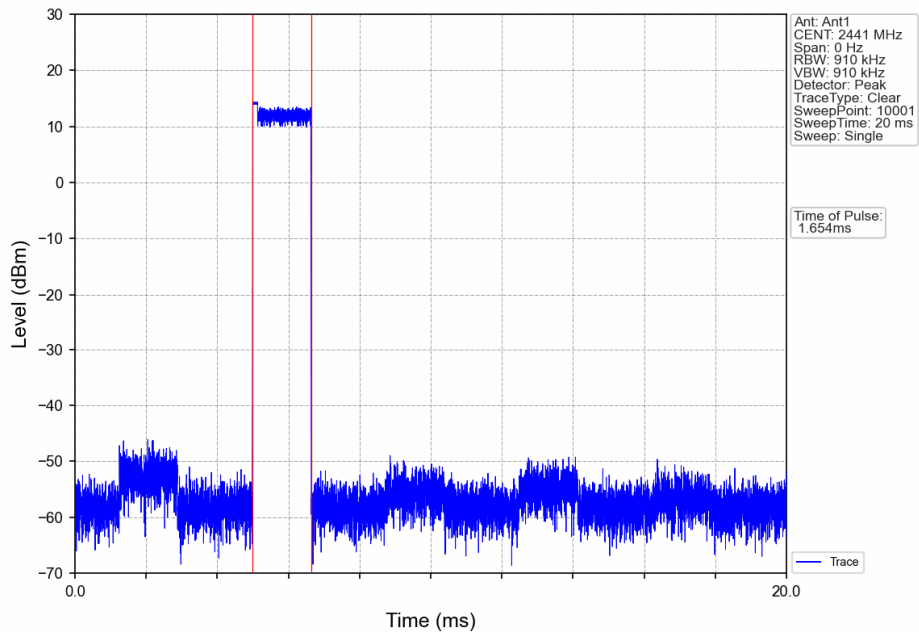
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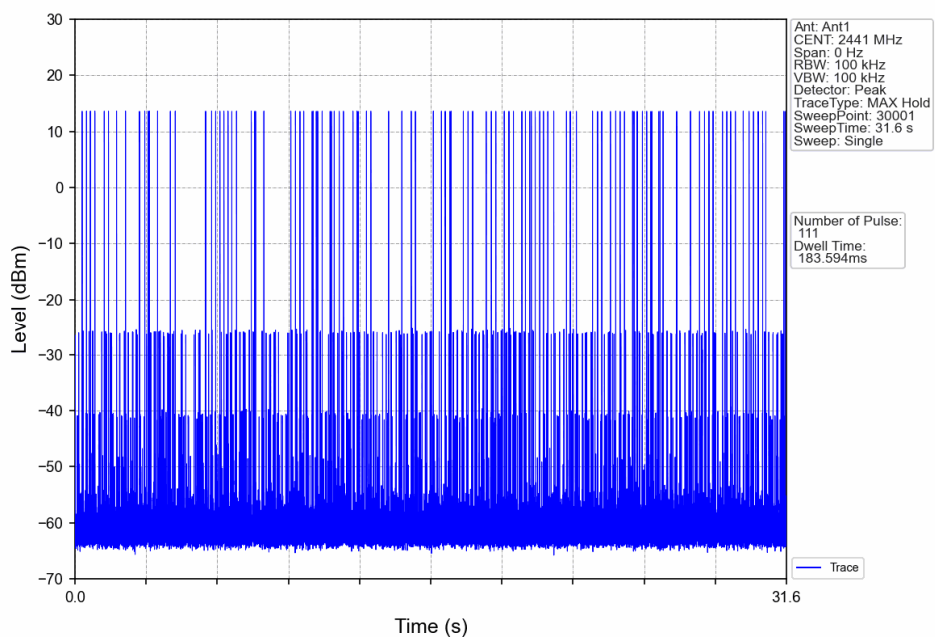
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8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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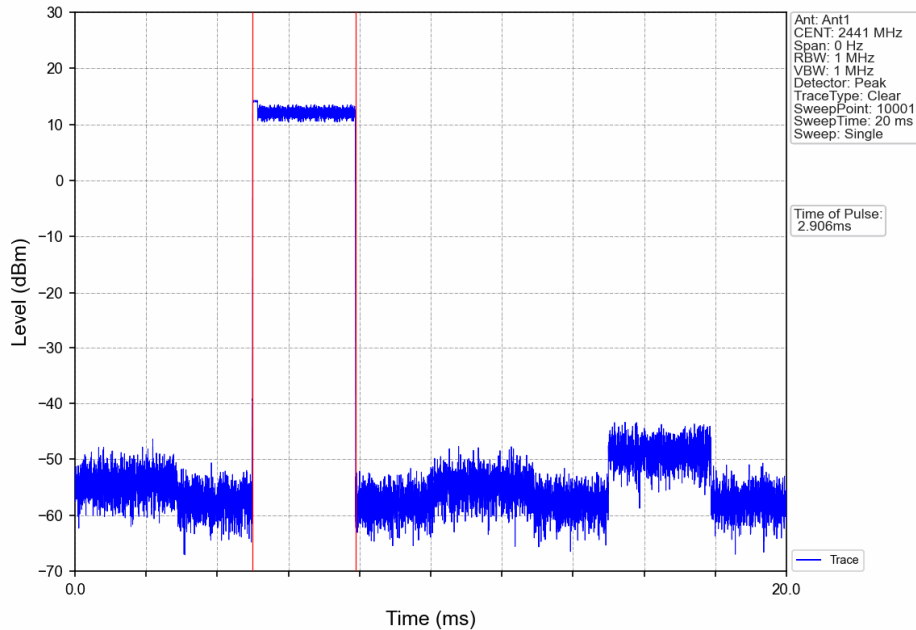
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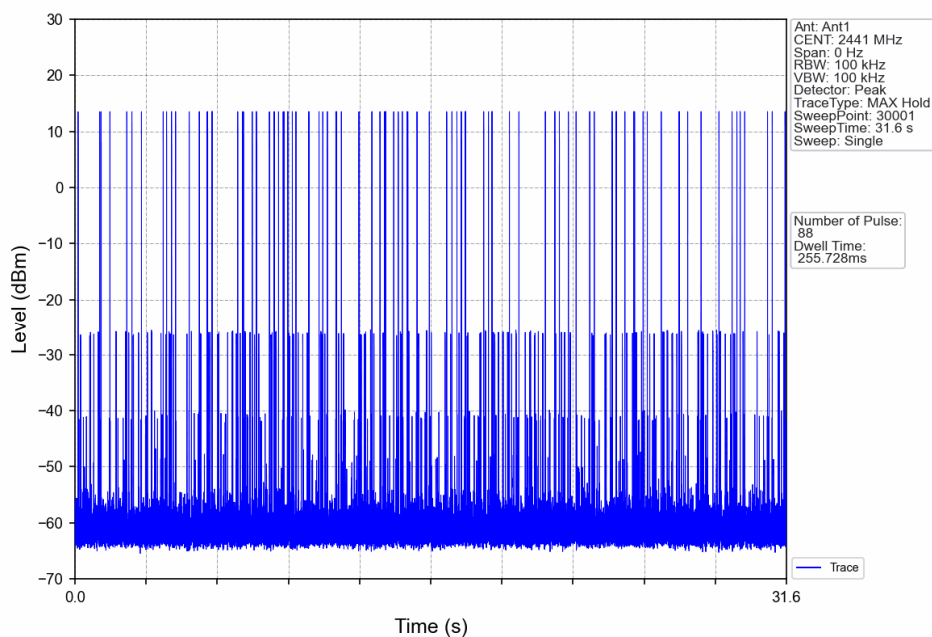
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8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 154 of 171

## 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	13.91
		2441	DH5	1	14.06
		2480	DH5	1	14.10
Pi/4DQPSK	SISO	2402	2DH5	1	13.83
		2441	2DH5	1	14.03
		2480	2DH5	1	13.97
8DPSK	SISO	2402	3DH5	1	13.99
		2441	3DH5	1	14.12
		2480	3DH5	1	14.08



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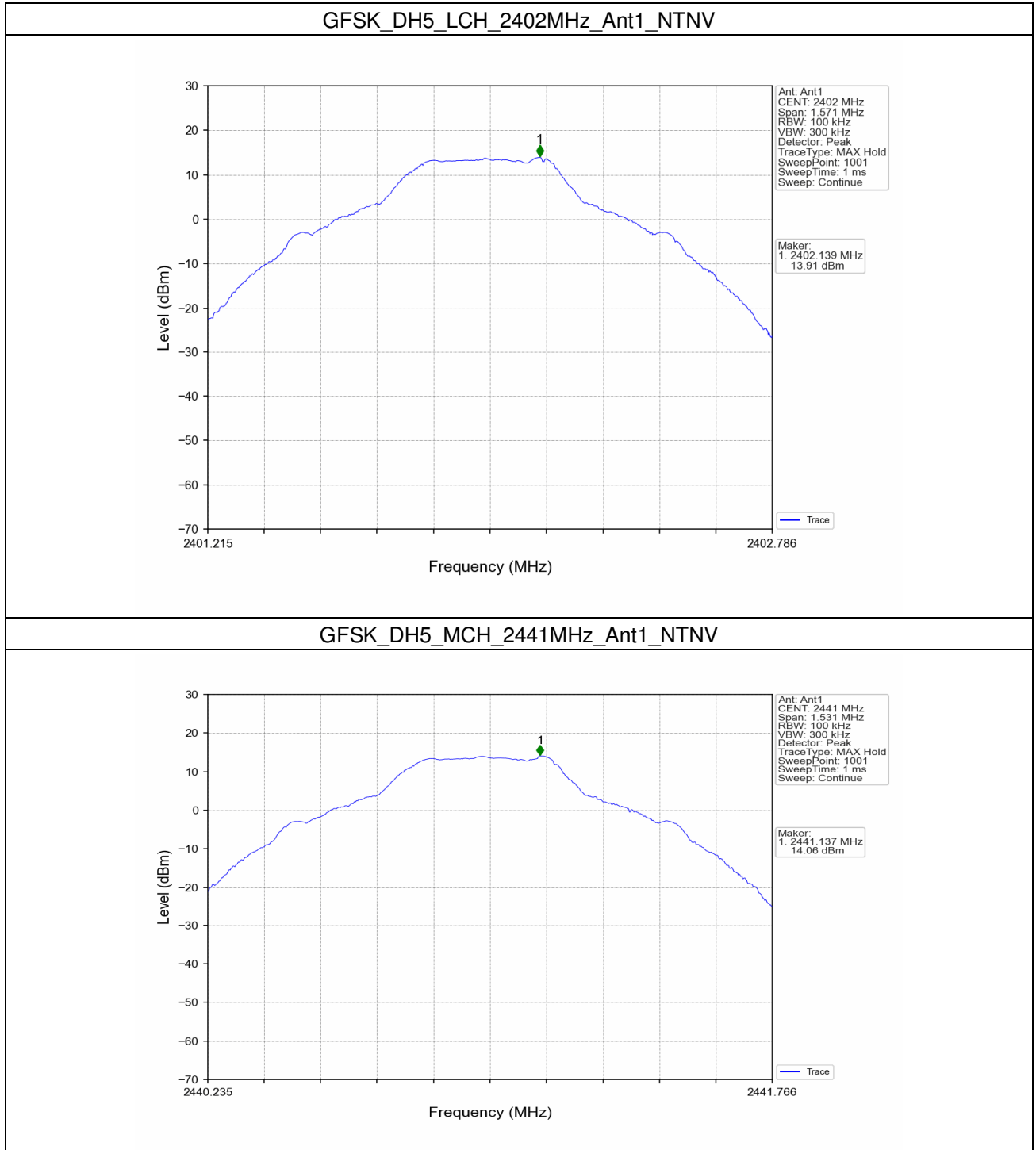
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 155 of 171

### 7.1.2 Test Graph



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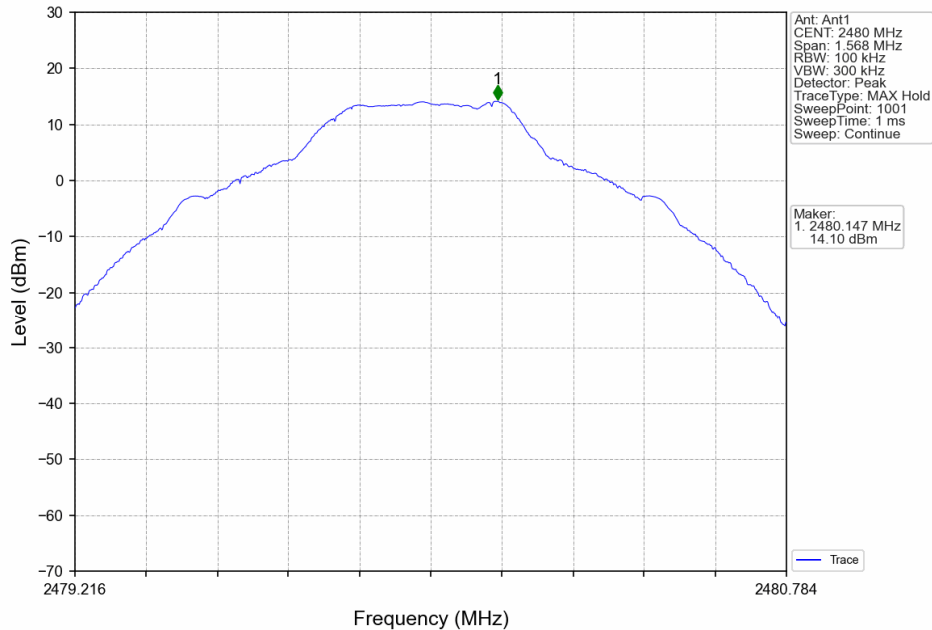
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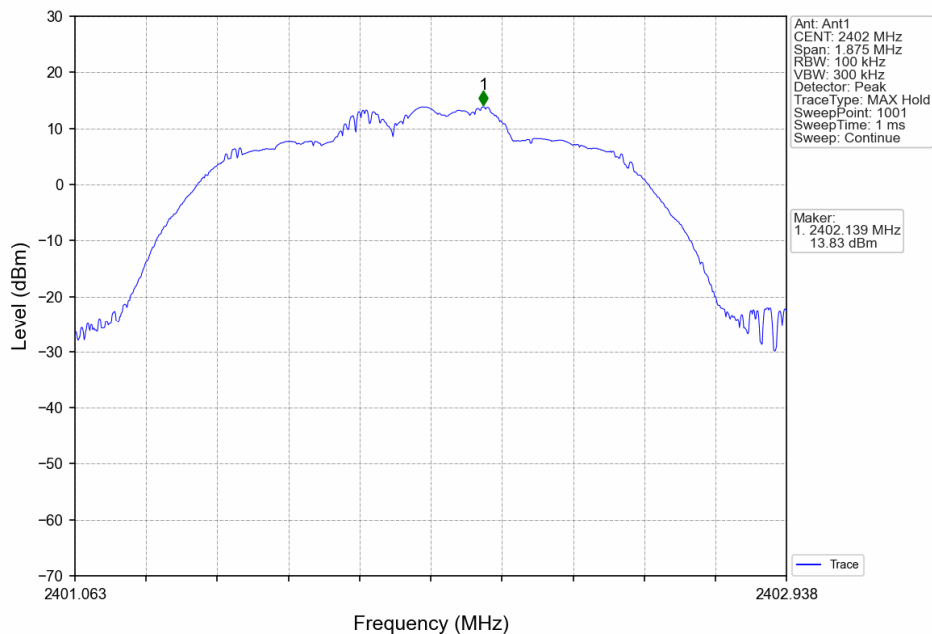
Report No.: FYCR230200004902

Page: 156 of 171

GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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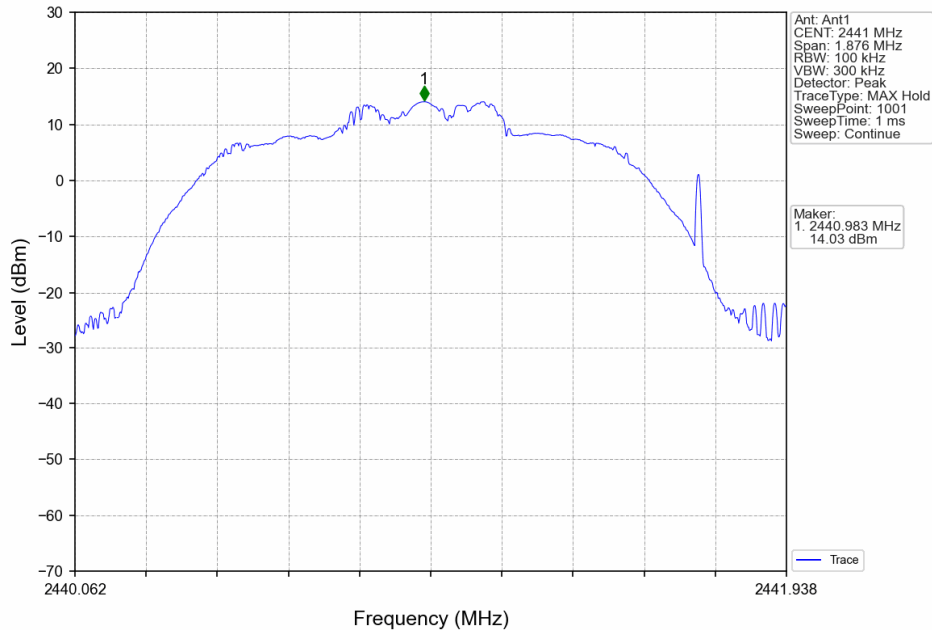
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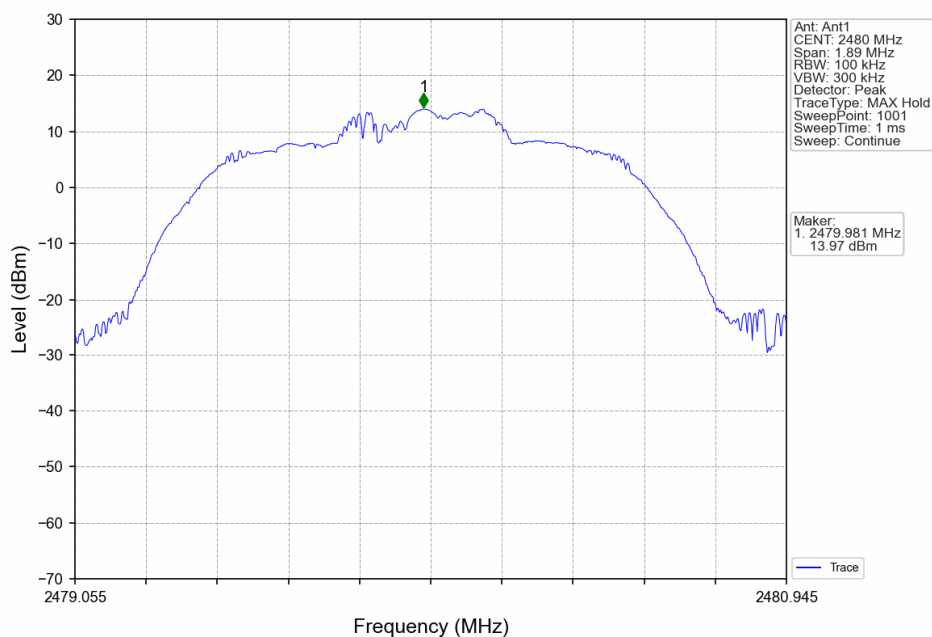
Report No.: FYCR230200004902

Page: 157 of 171

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



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



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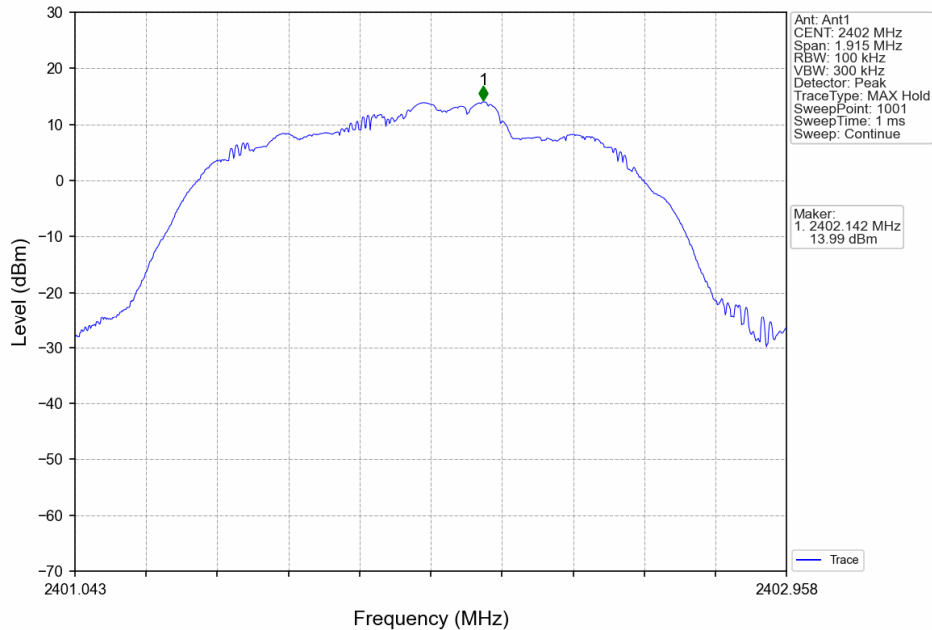
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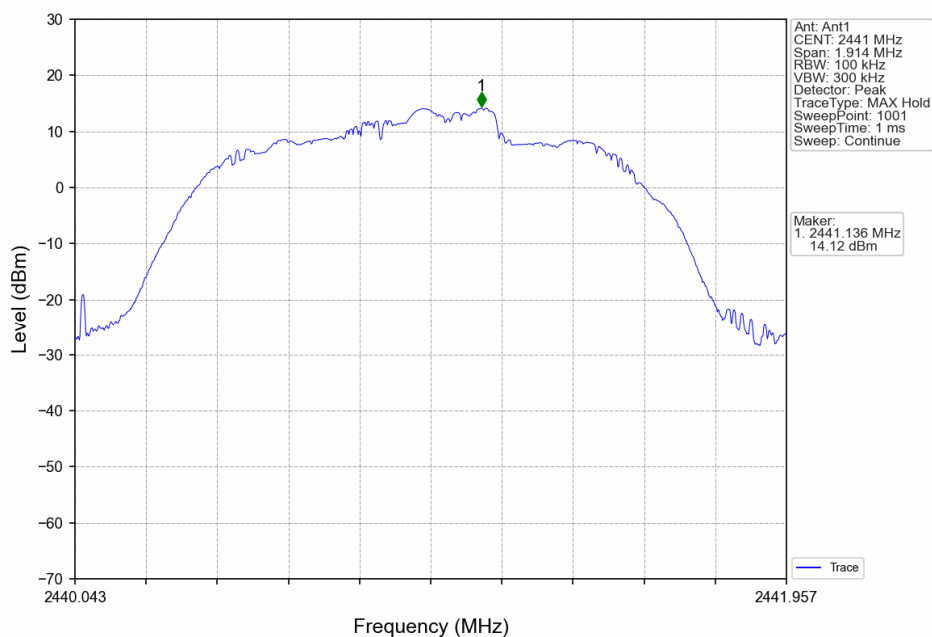
Report No.: FYCR230200004902

Page: 158 of 171

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



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



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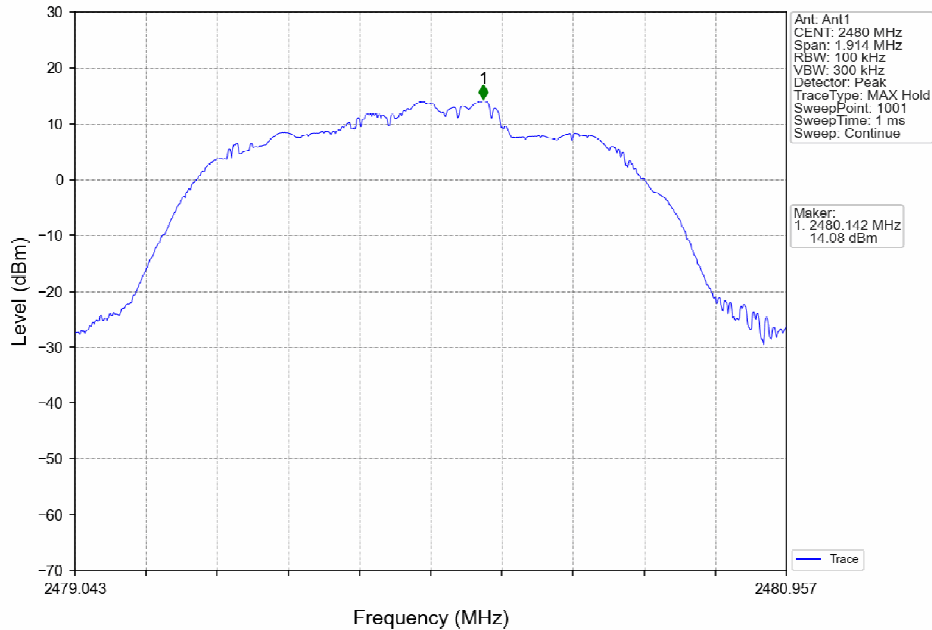
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Page: 159 of 171

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



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230200004902

Page: 160 of 171

### 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	14.10	-5.90	Pass
		2441	DH5	1	14.10	-5.90	Pass
		2480	DH5	1	14.10	-5.90	Pass
		HOPP	DH5	1	14.10	-5.90	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	14.03	-5.97	Pass
		2441	2DH5	1	14.03	-5.97	Pass
		2480	2DH5	1	14.03	-5.97	Pass
		HOPP	2DH5	1	14.03	-5.97	Pass
8DPSK	SISO	2402	3DH5	1	14.12	-5.88	Pass
		2441	3DH5	1	14.12	-5.88	Pass
		2480	3DH5	1	14.12	-5.88	Pass
		HOPP	3DH5	1	14.12	-5.88	Pass



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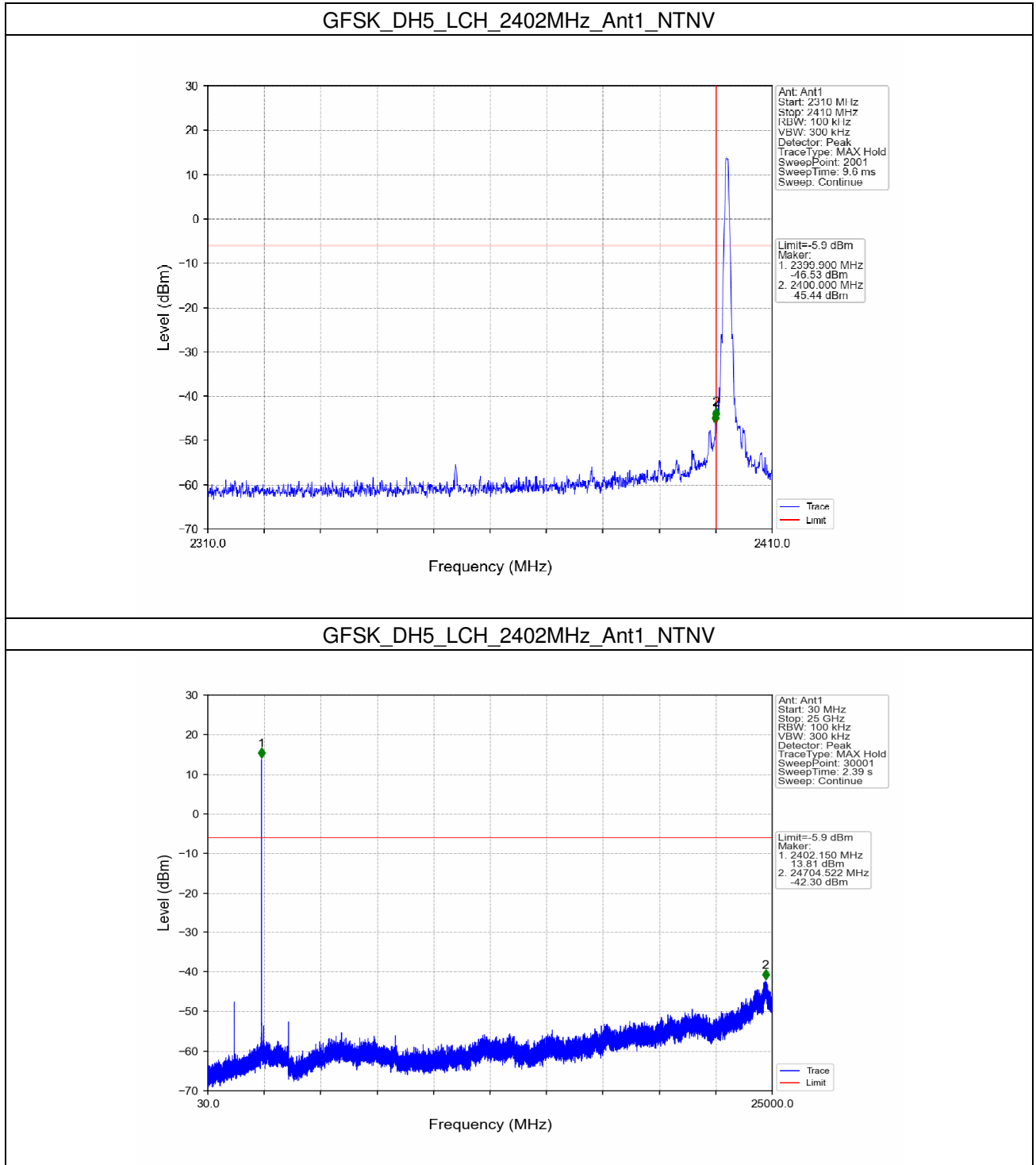
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Report No.: FYCR230200004902

Page: 161 of 171

### 7.2.2 Test Graph



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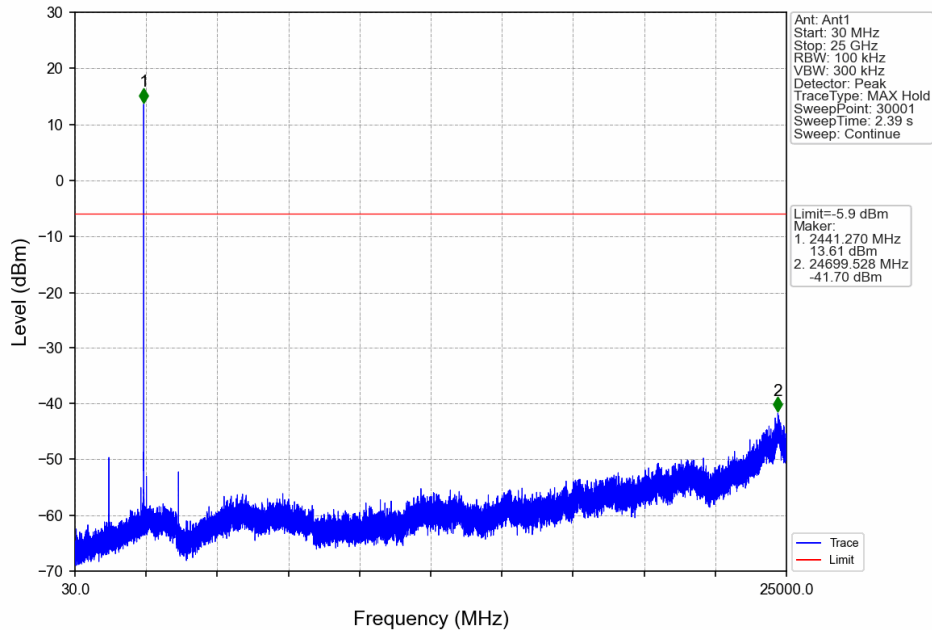
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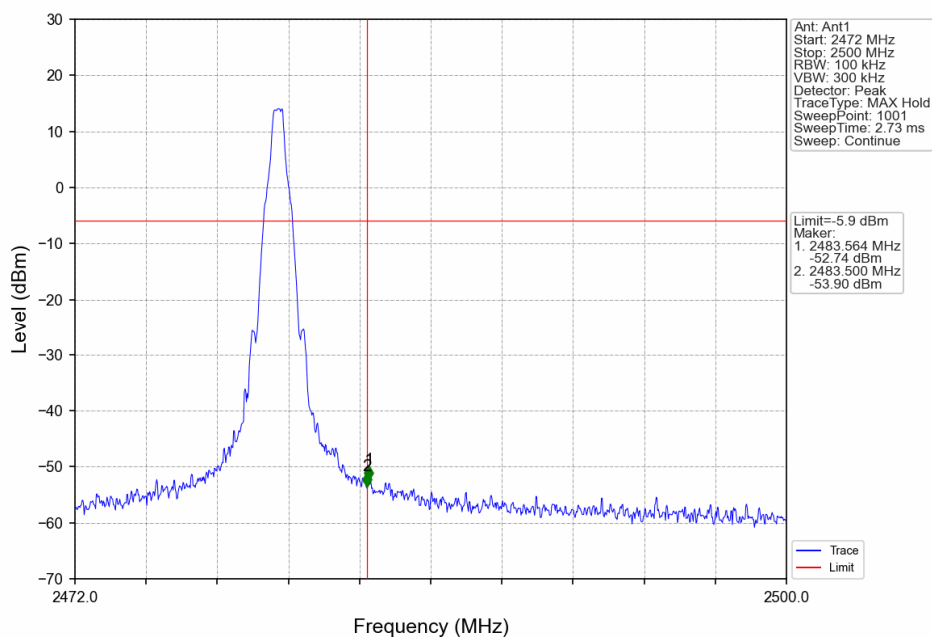
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Page: 162 of 171

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



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



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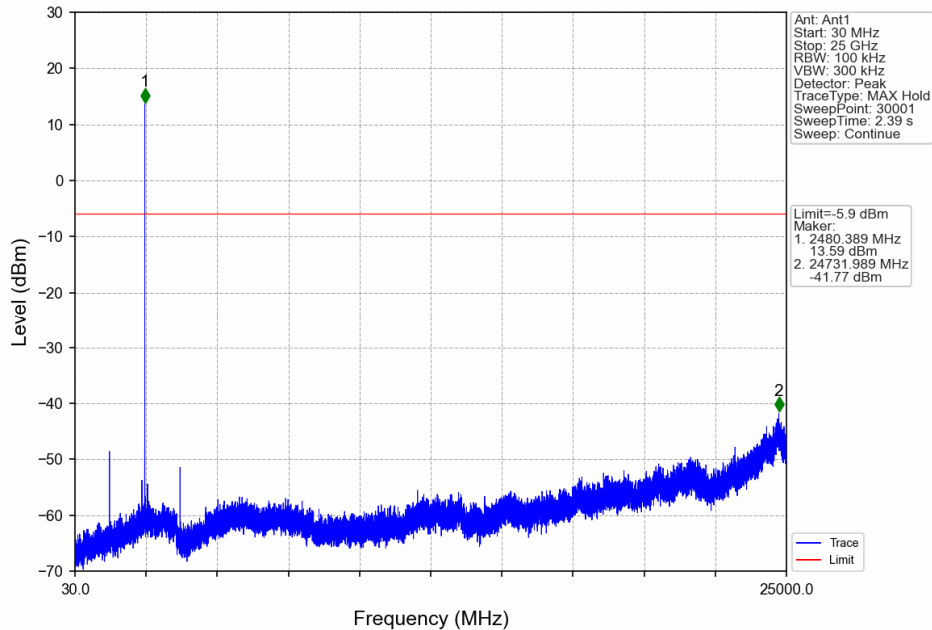
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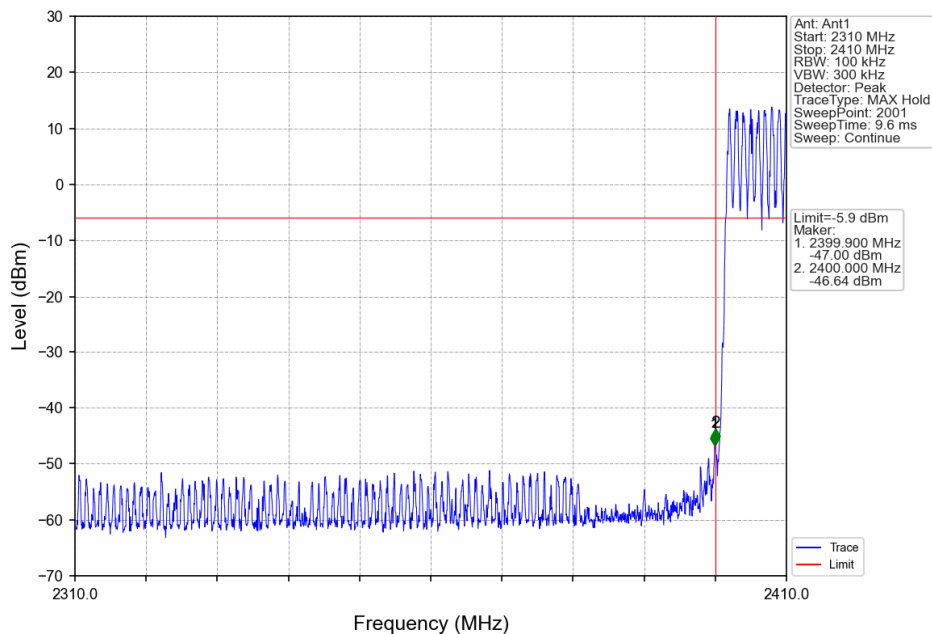
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Page: 163 of 171

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



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



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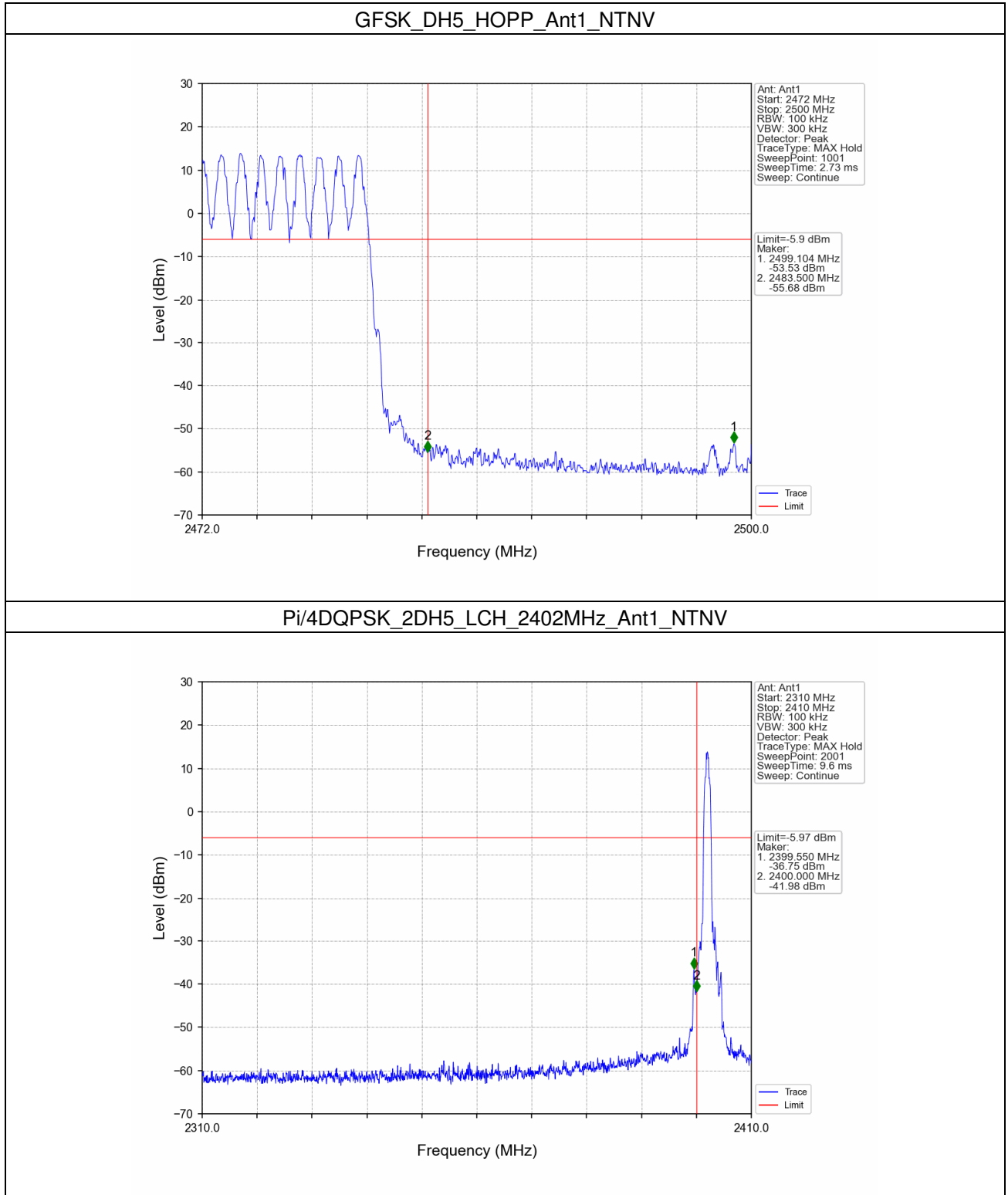
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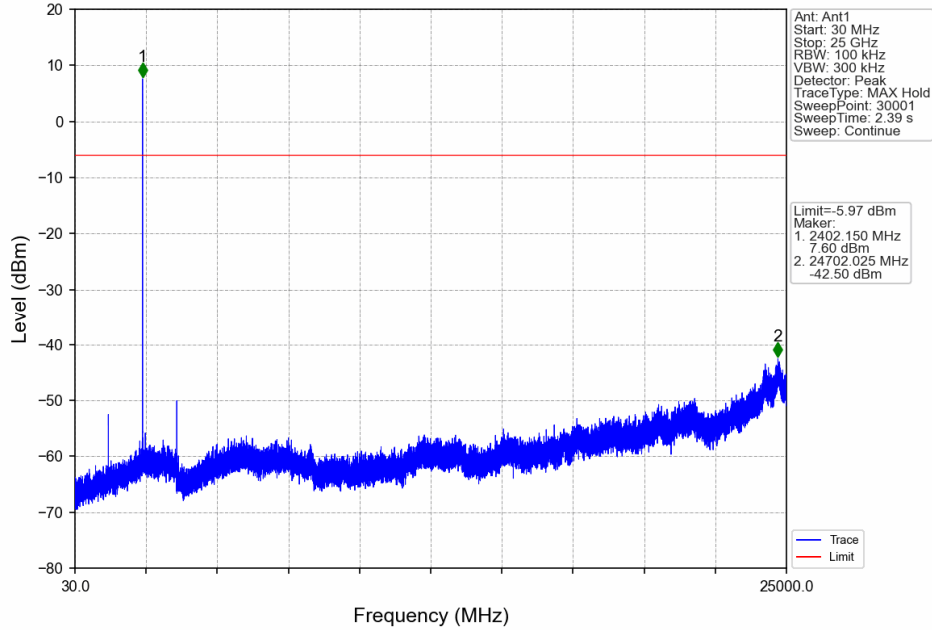
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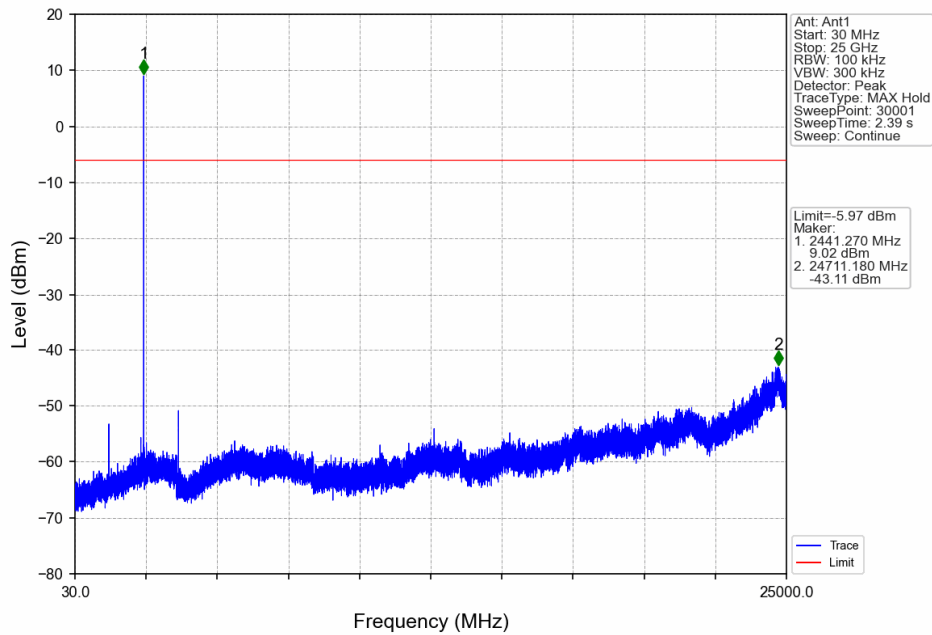
Report No.: FYCR230200004902

Page: 165 of 171

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



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



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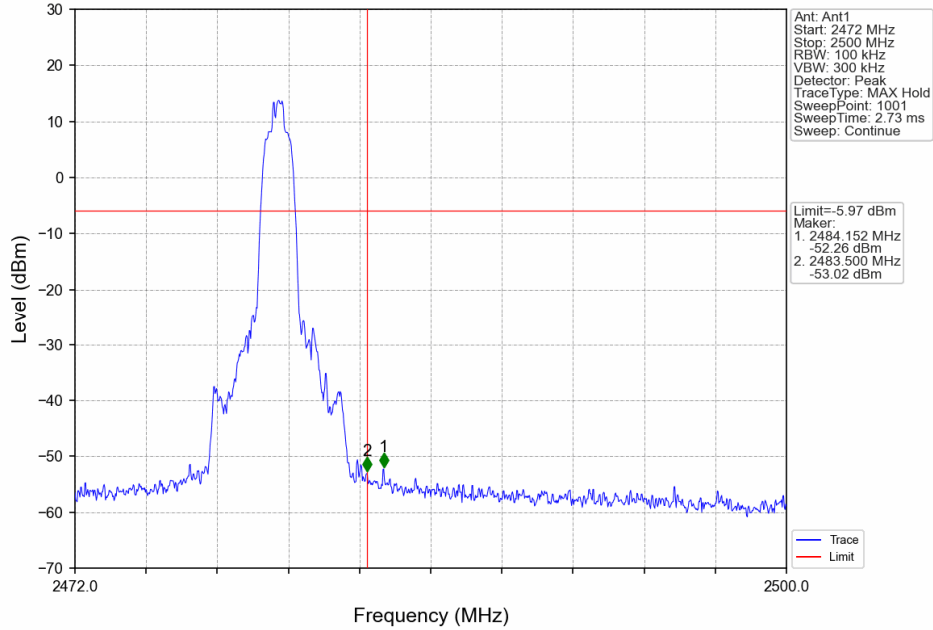
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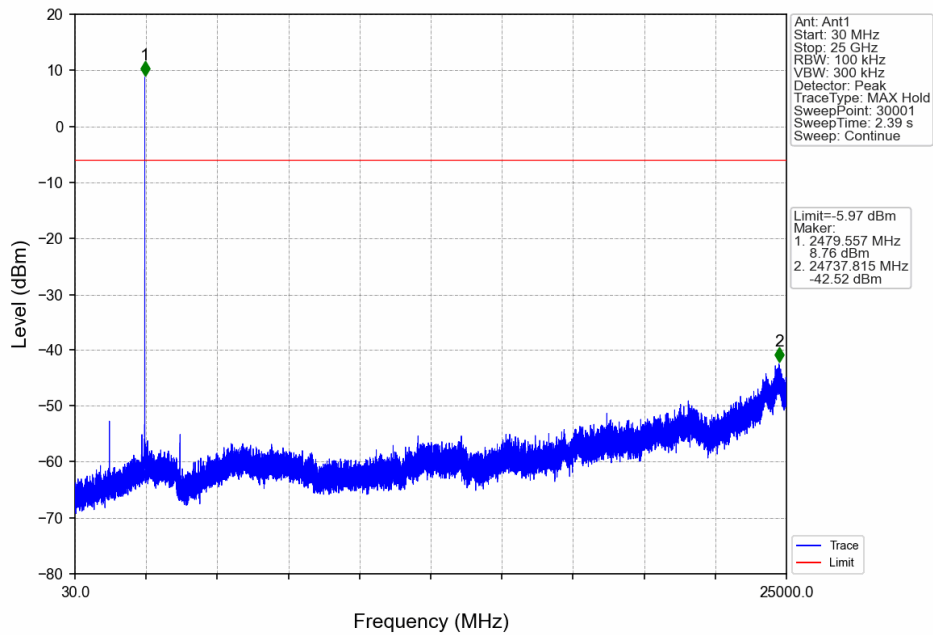
Report No.: FYCR230200004902

Page: 166 of 171

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



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



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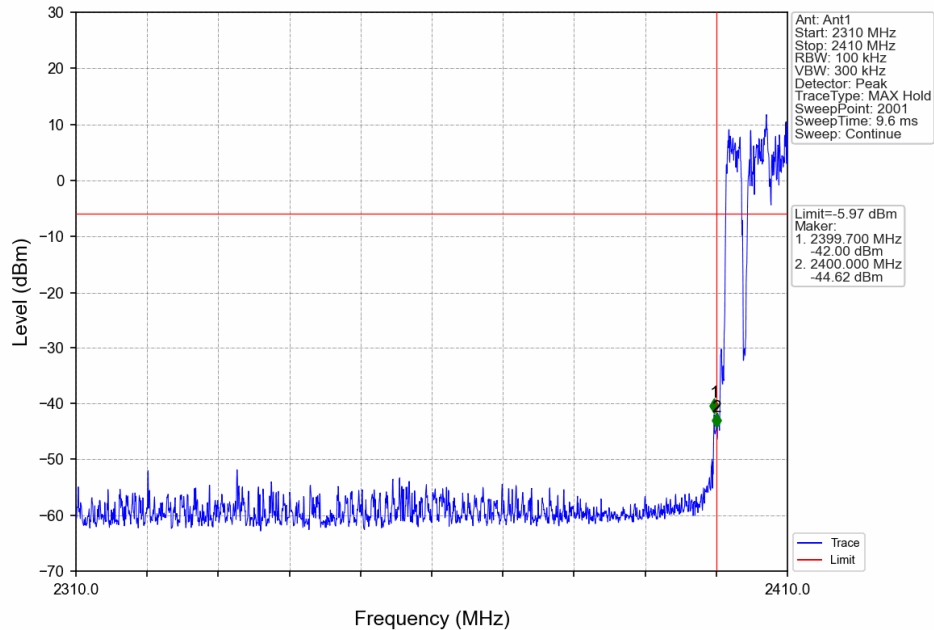
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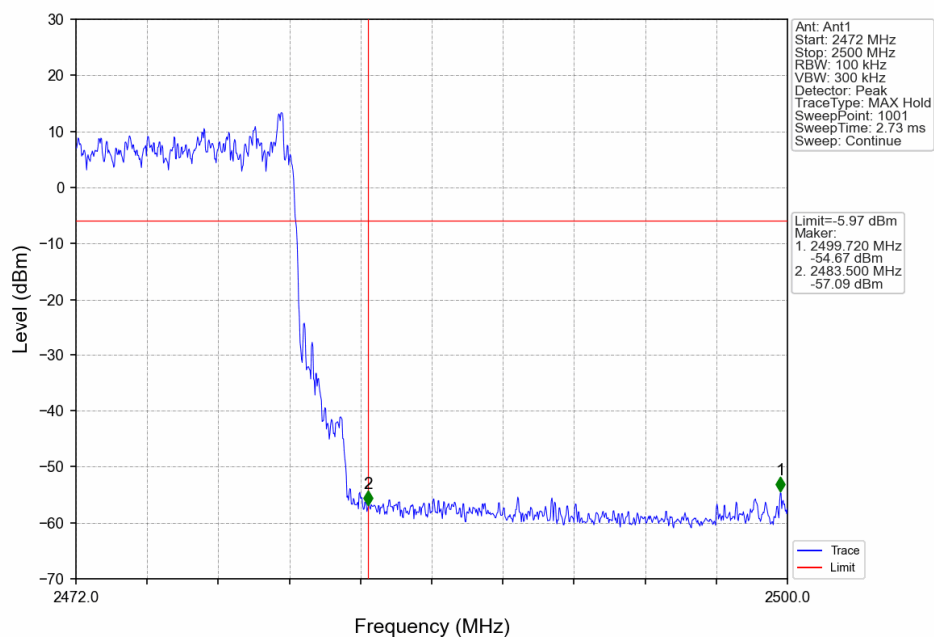
Report No.: FYCR230200004902

Page: 167 of 171

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



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



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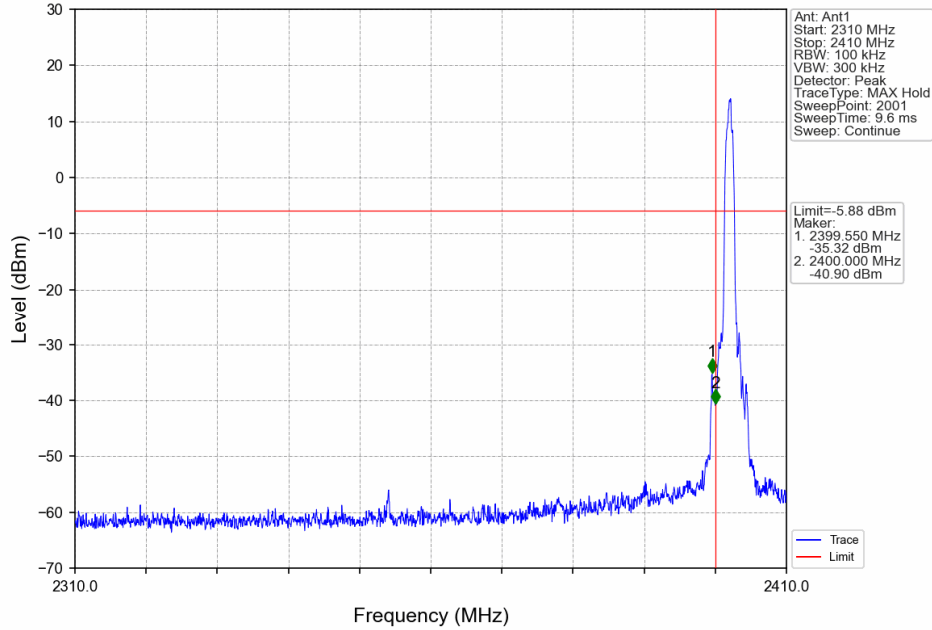
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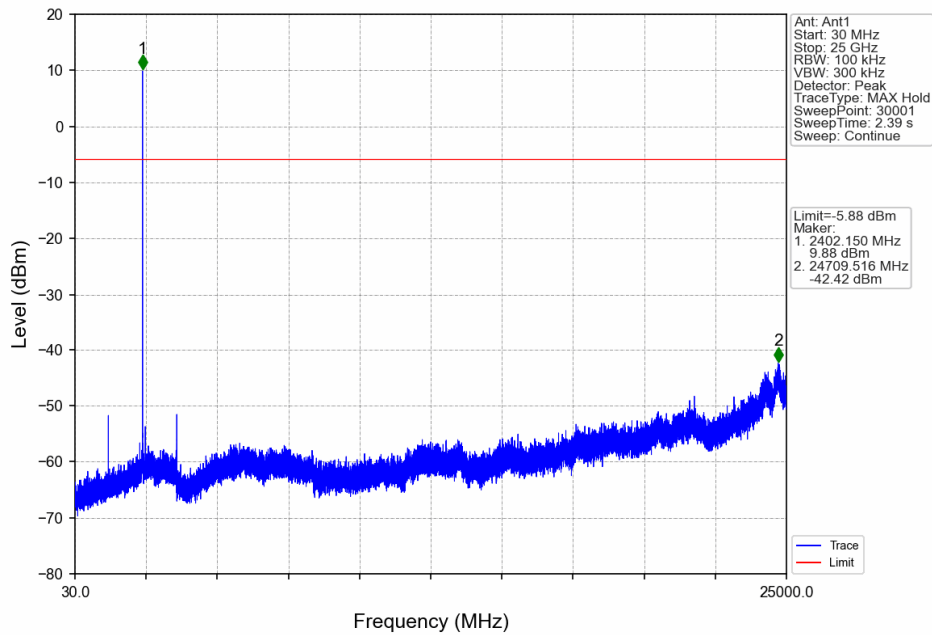
Report No.: FYCR230200004902

Page: 168 of 171

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



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



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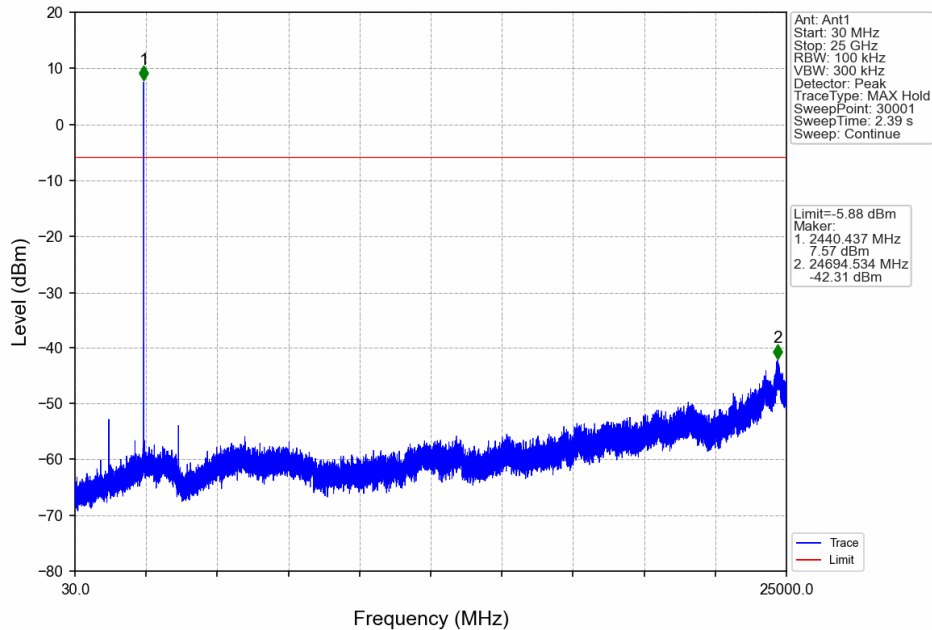
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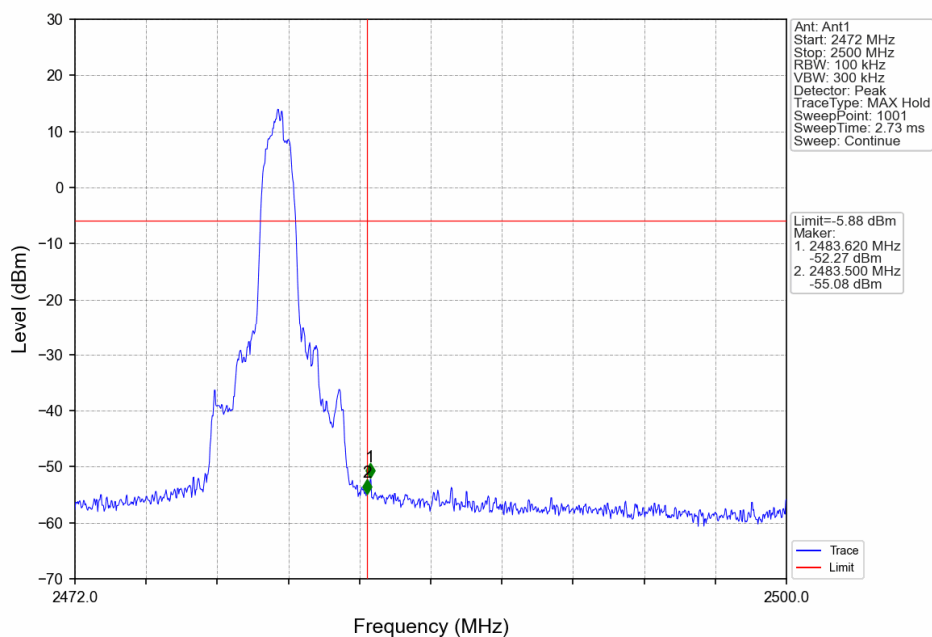
Report No.: FYCR230200004902

Page: 169 of 171

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



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



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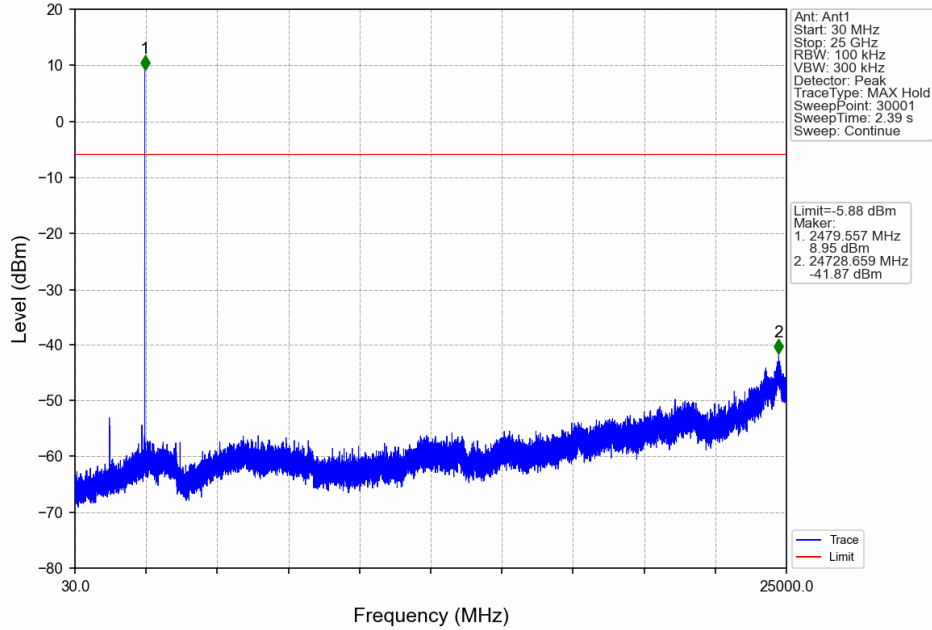
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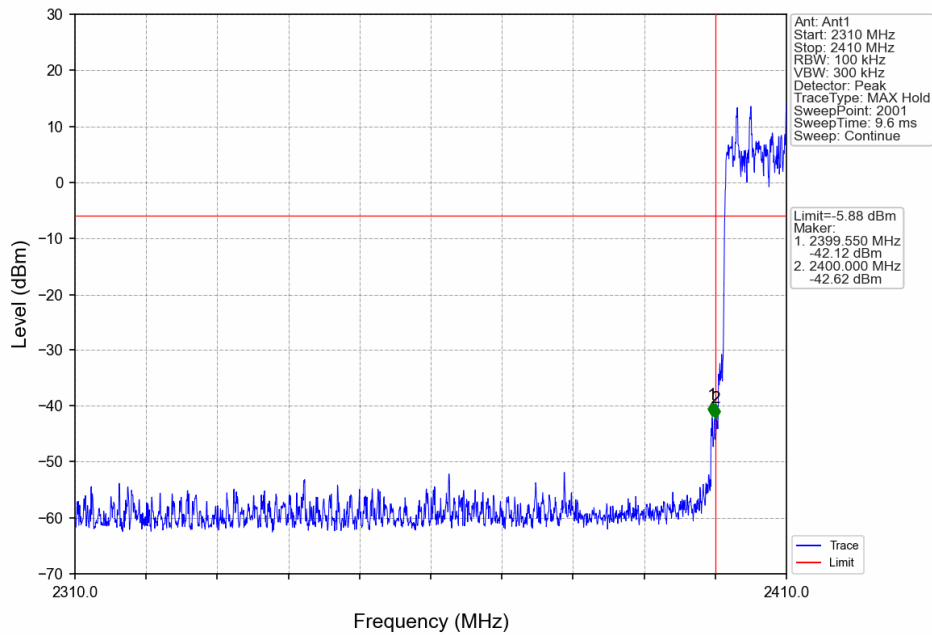
Report No.: FYCR230200004902

Page: 170 of 171

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



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



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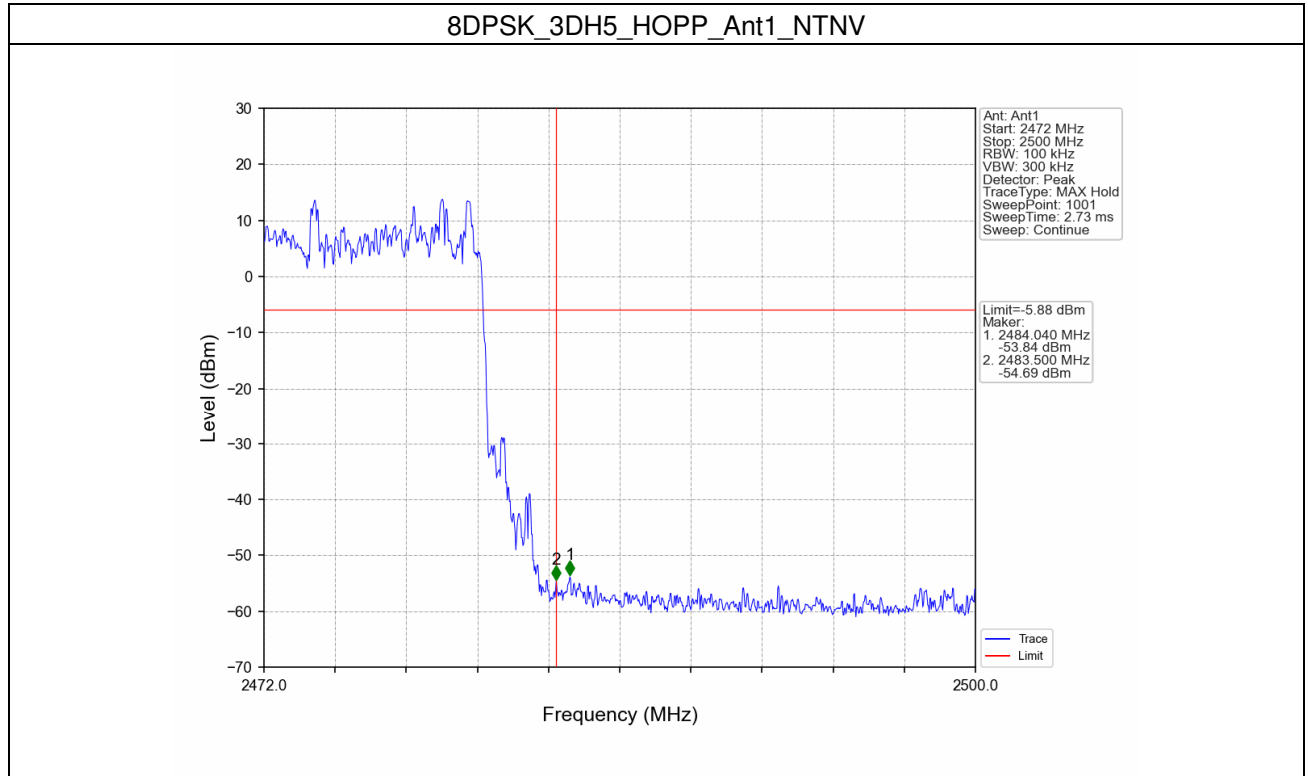


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Report No.: FYCR230200004902

Page: 171 of 171



- End of the Report -



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