

Appendix C for KSCR220100003203AT-FCC-BT-MT7668

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	0.884	Pass
		2441	DH5	1	0.877	Pass
		2480	DH5	1	0.881	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.167	Pass
		2441	2DH5	1	1.169	Pass
		2480	2DH5	1	1.170	Pass
8DPSK	SISO	2402	3DH5	1	1.172	Pass
		2441	3DH5	1	1.174	Pass
		2480	3DH5	1	1.173	Pass

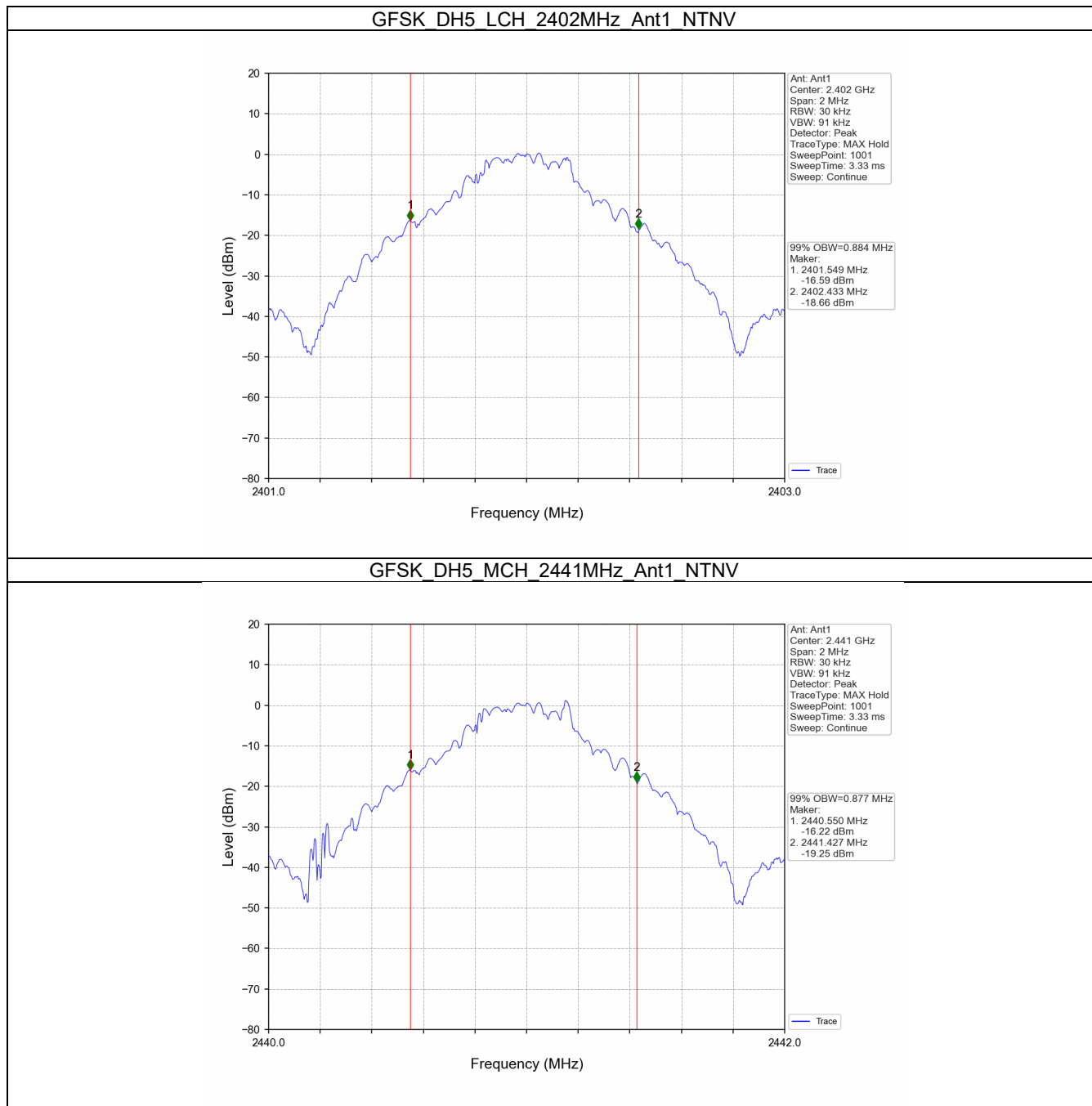


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1.1.2 Test Graph



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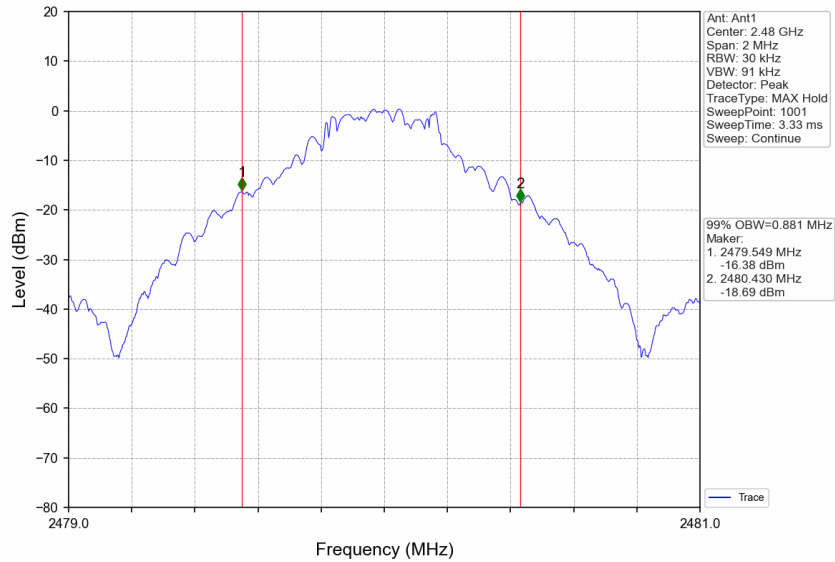
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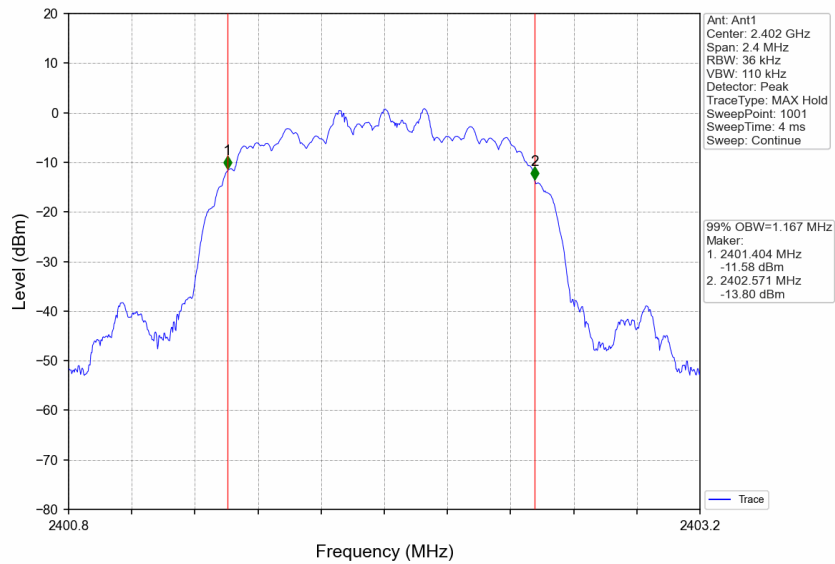
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GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK_2DH5 LCH 2402MHz Ant1 NTN

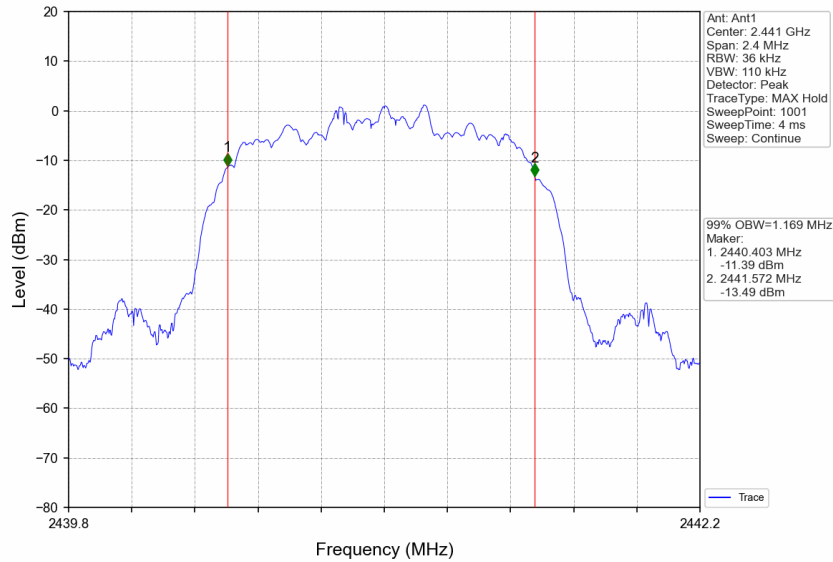


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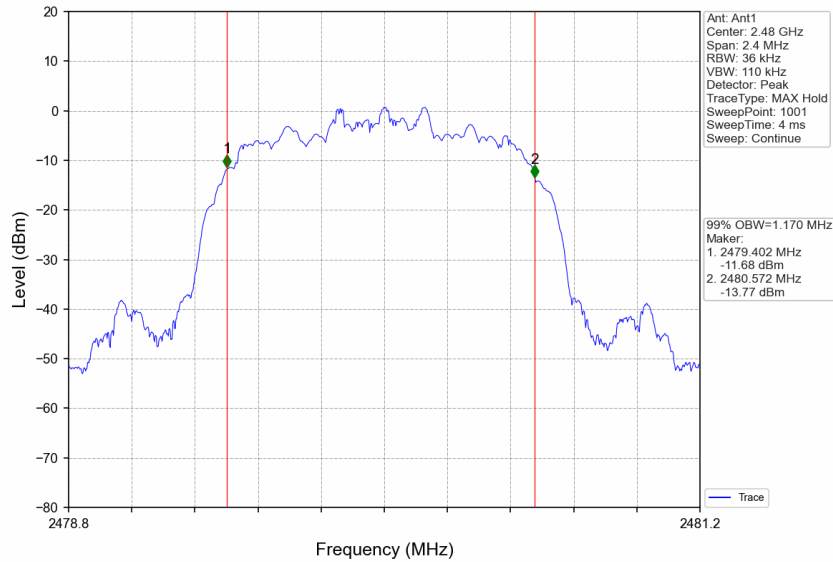
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

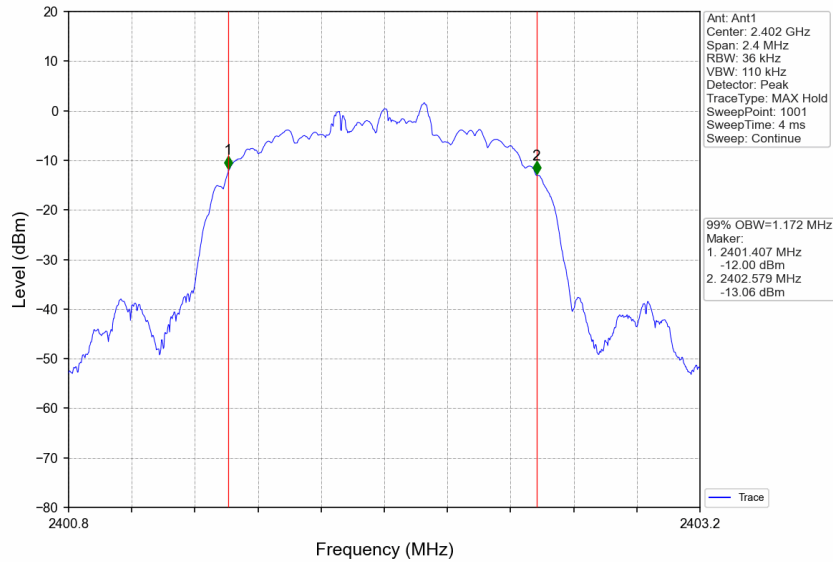


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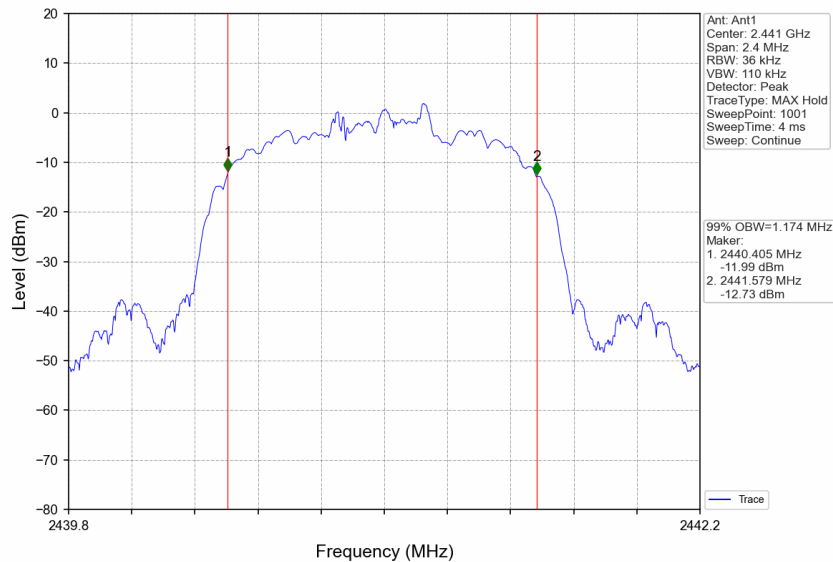


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8DPSK 3DH5 LCH 2402MHz Ant1 NTN

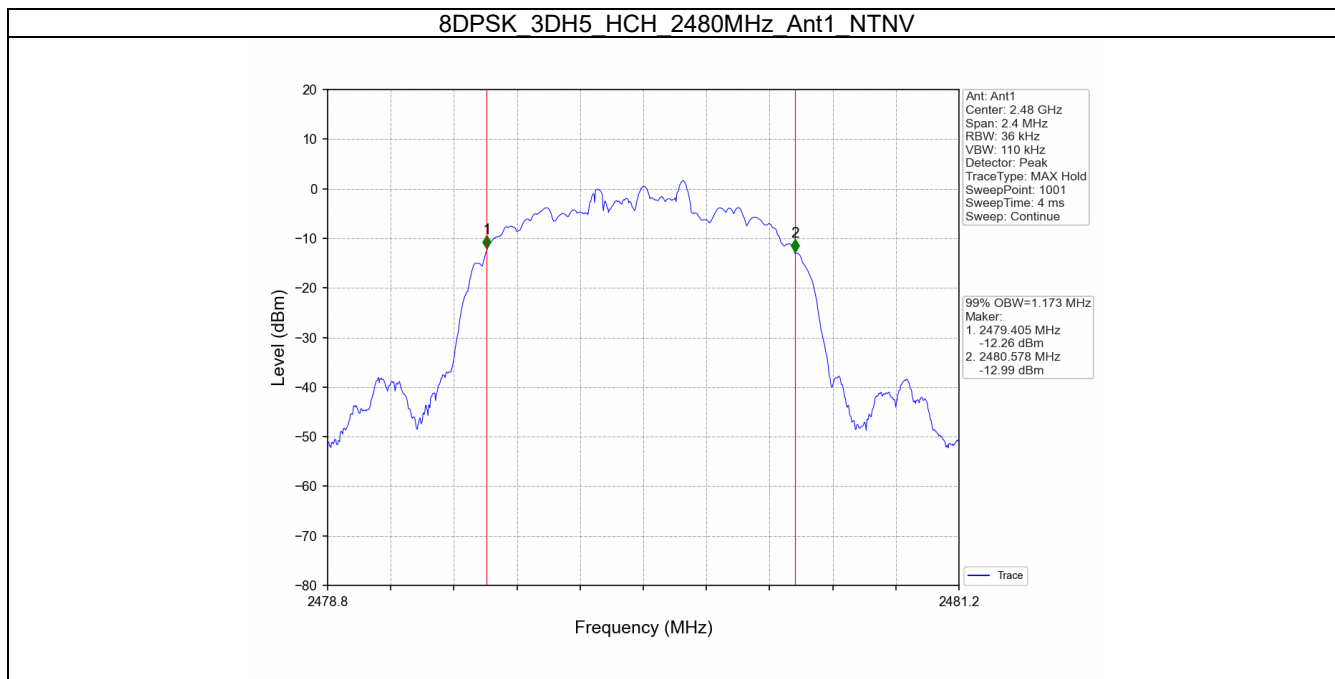


8DPSK 3DH5_MCH 2441MHz Ant1 NTN



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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	0.957	Pass
		2441	DH5	1	0.951	Pass
		2480	DH5	1	0.958	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.303	Pass
		2441	2DH5	1	1.312	Pass
		2480	2DH5	1	1.306	Pass
8DPSK	SISO	2402	3DH5	1	1.299	Pass
		2441	3DH5	1	1.298	Pass
		2480	3DH5	1	1.299	Pass

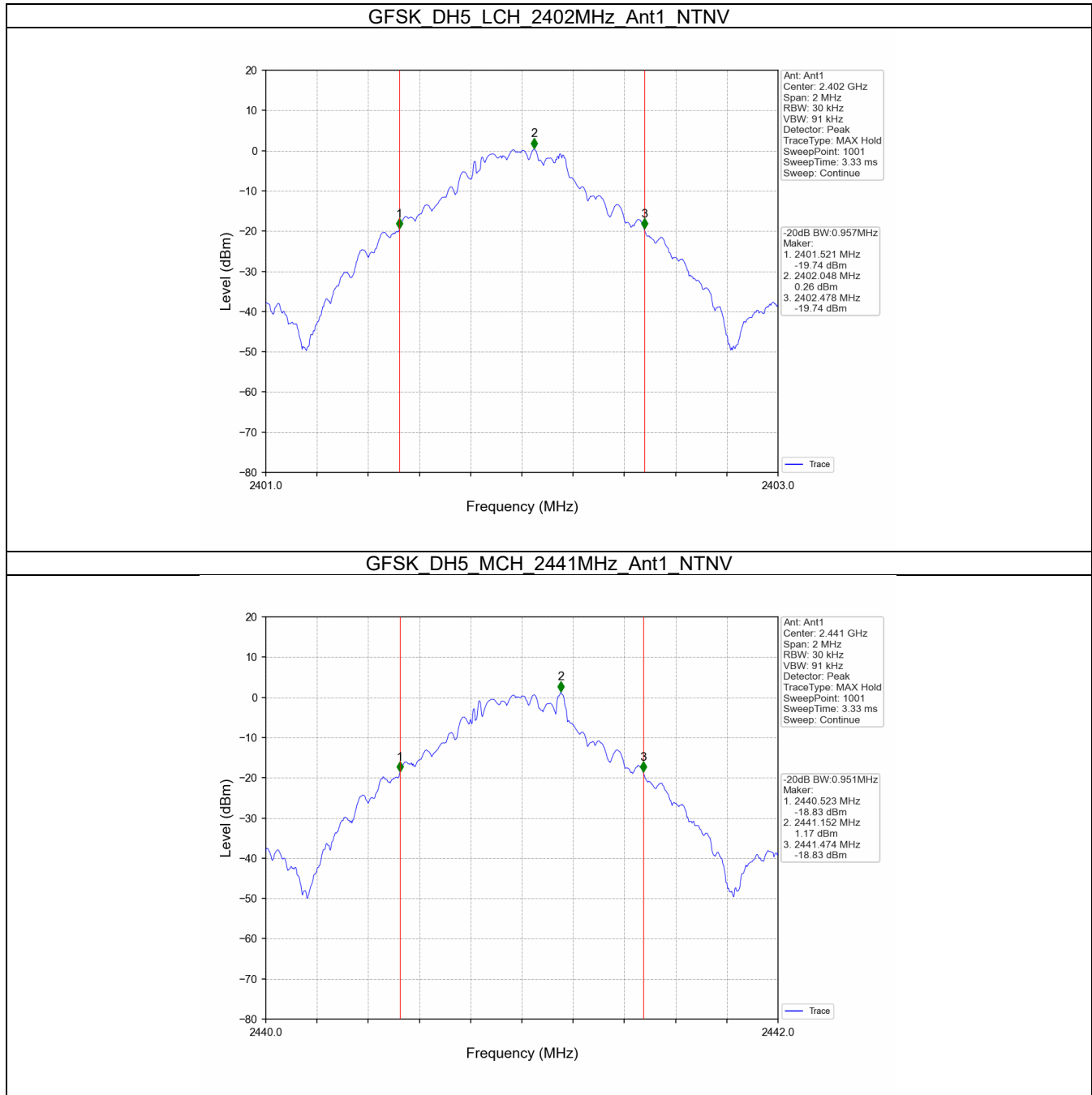


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1.2.2 Test Graph



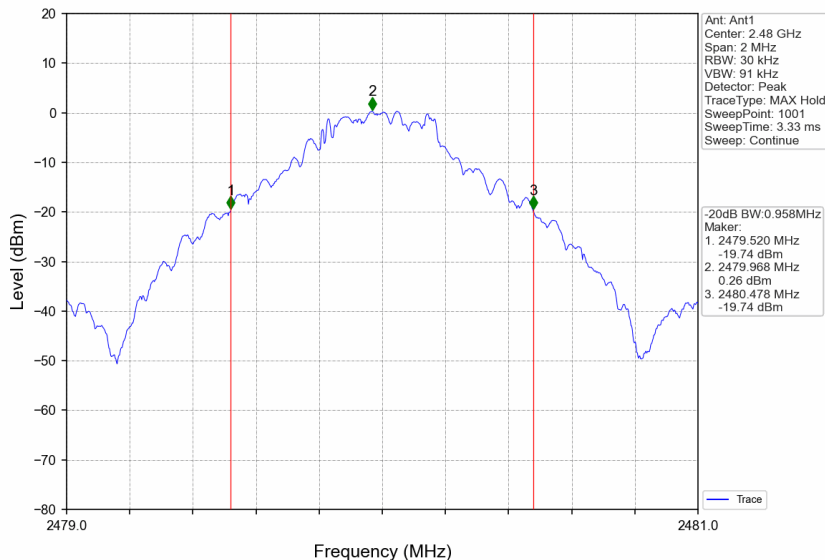
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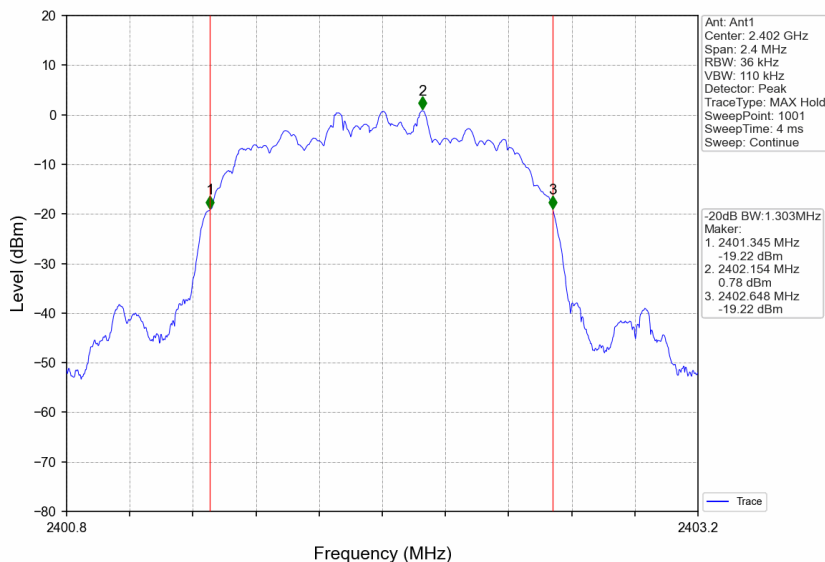
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GFSK DH5 HCH 2480MHz Ant1 NTN



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN



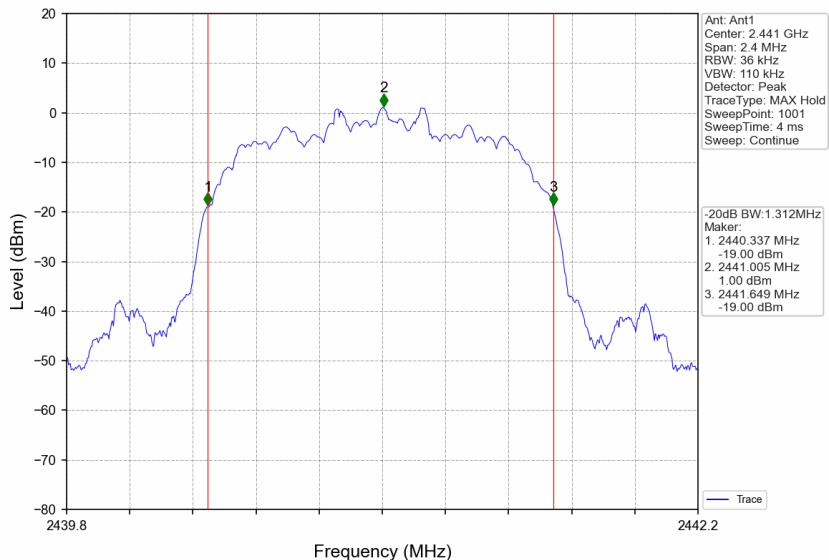
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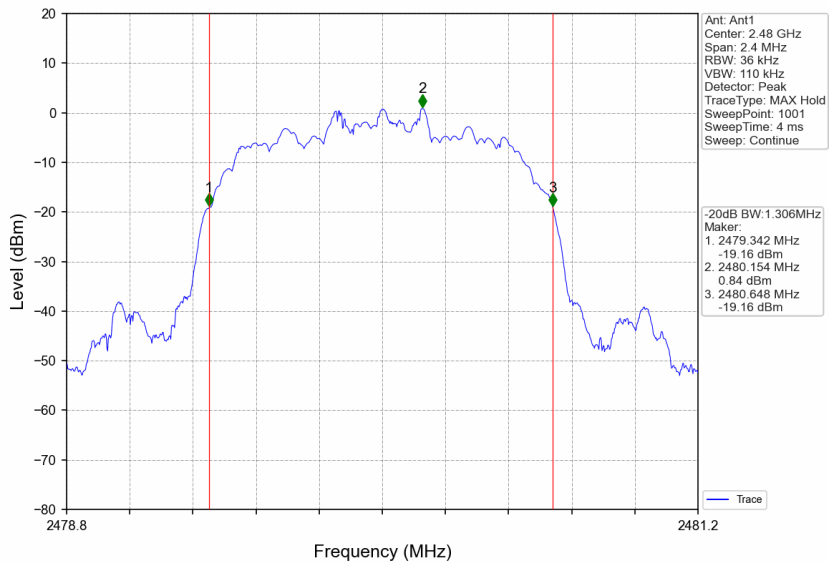
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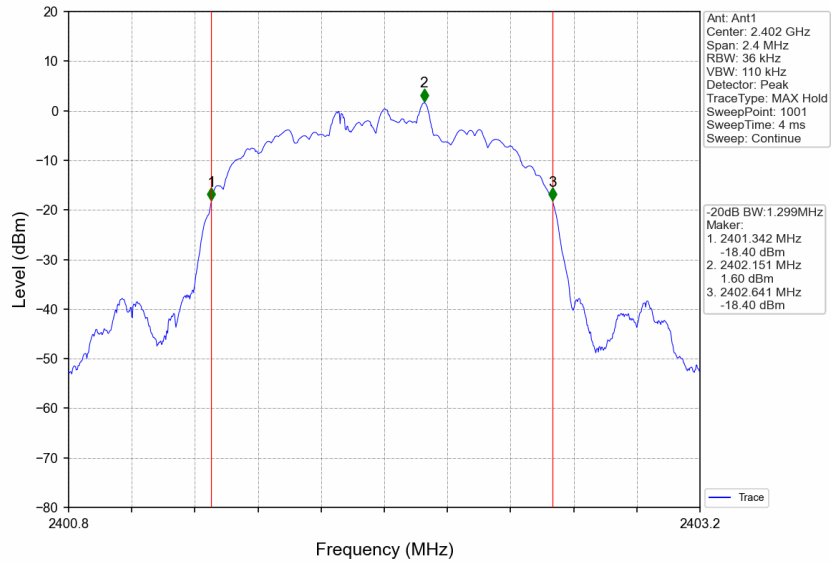


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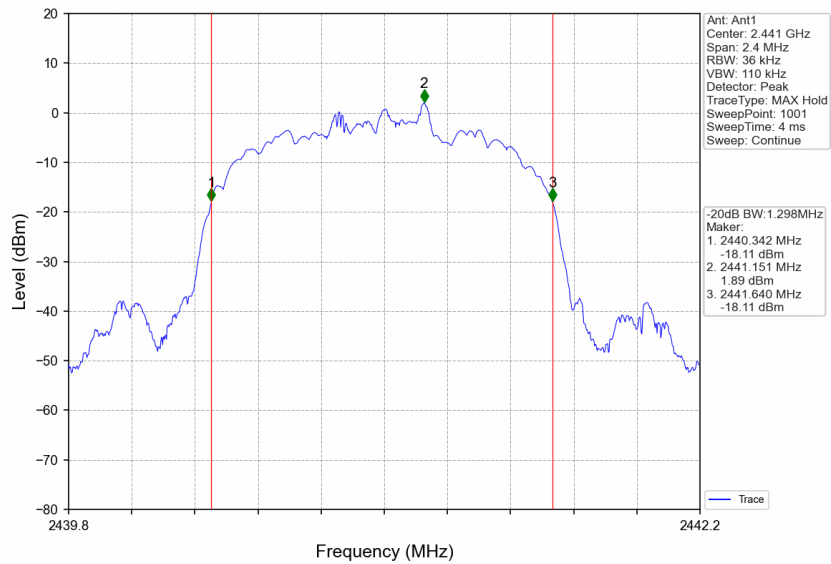


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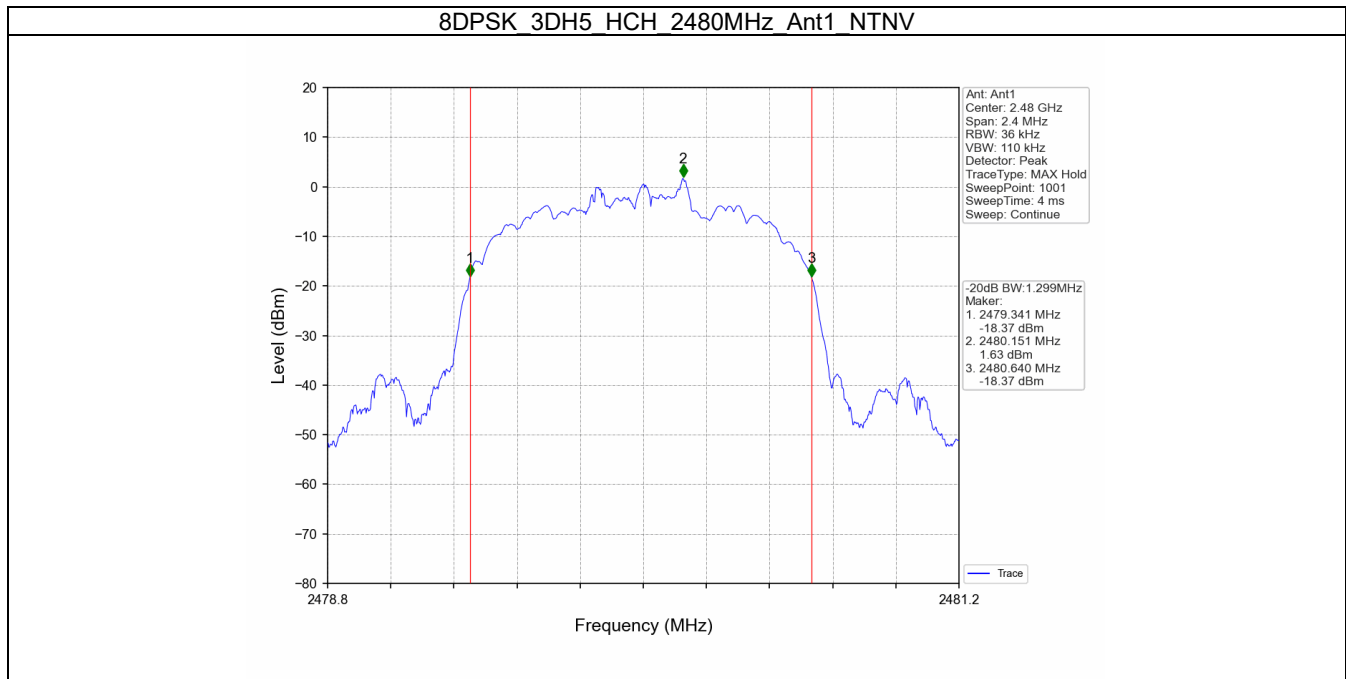
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8DPSK 3DH5_MCH 2441MHz Ant1 NTN



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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	3.57	<=30	Pass
		2441	DH5	3.90	<=30	Pass
		2480	DH5	3.61	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	6.16	<=20.97	Pass
		2441	2DH5	6.45	<=20.97	Pass
		2480	2DH5	6.14	<=20.97	Pass
8DPSK	SISO	2402	3DH5	6.45	<=20.97	Pass
		2441	3DH5	6.72	<=20.97	Pass
		2480	3DH5	6.45	<=20.97	Pass

Note1: Antenna Gain: Ant1: 5.19dBi;

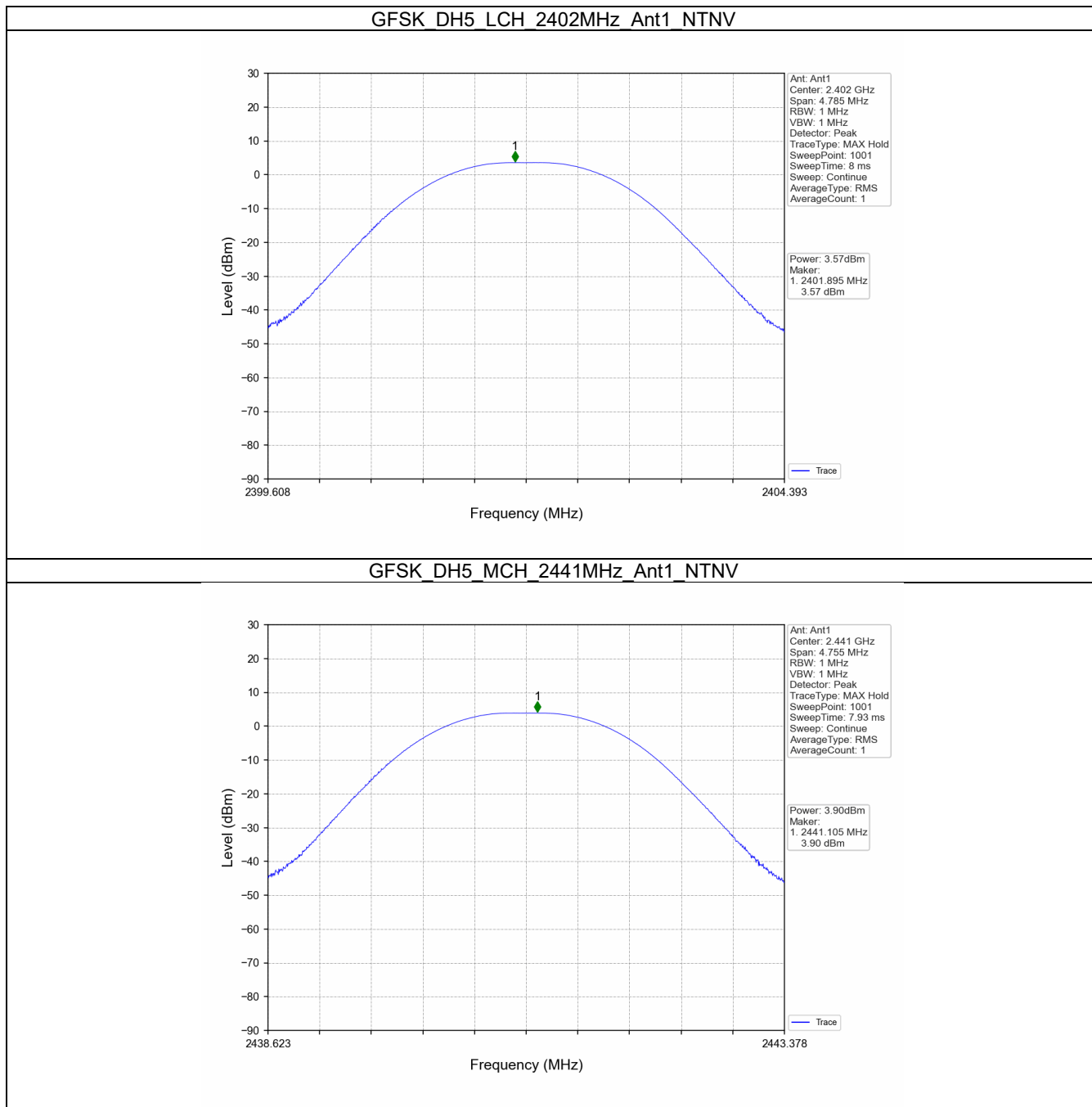


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2.1.2 Test Graph



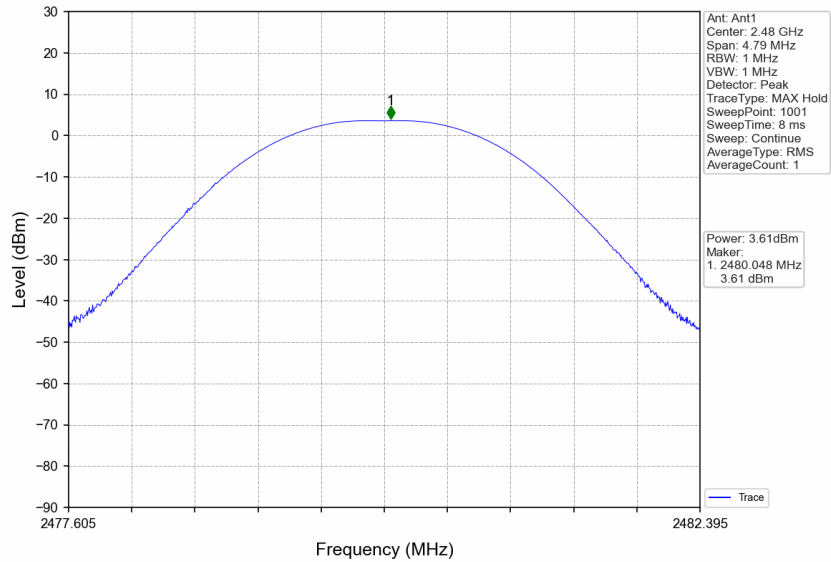
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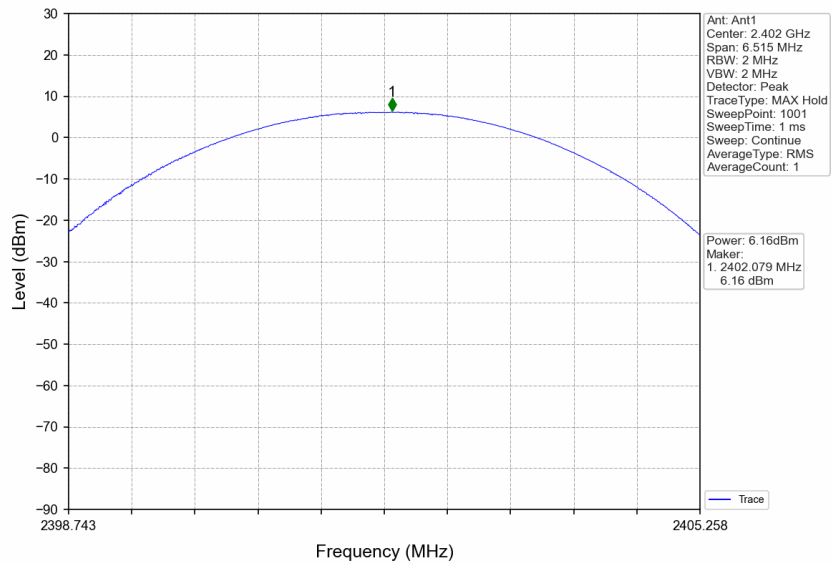
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GFSK DH5 HCH 2480MHz Ant1 NTN

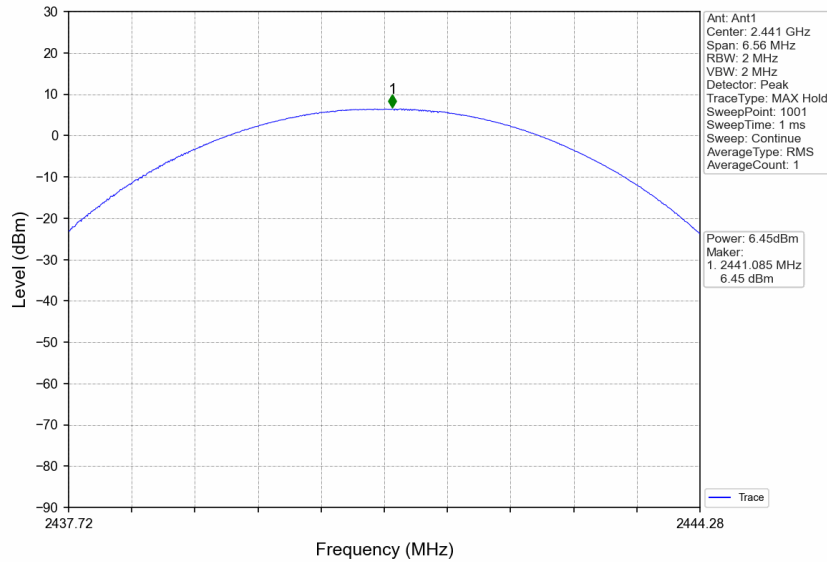


Pi/4DQPSK_2DH5 LCH 2402MHz Ant1 NTN

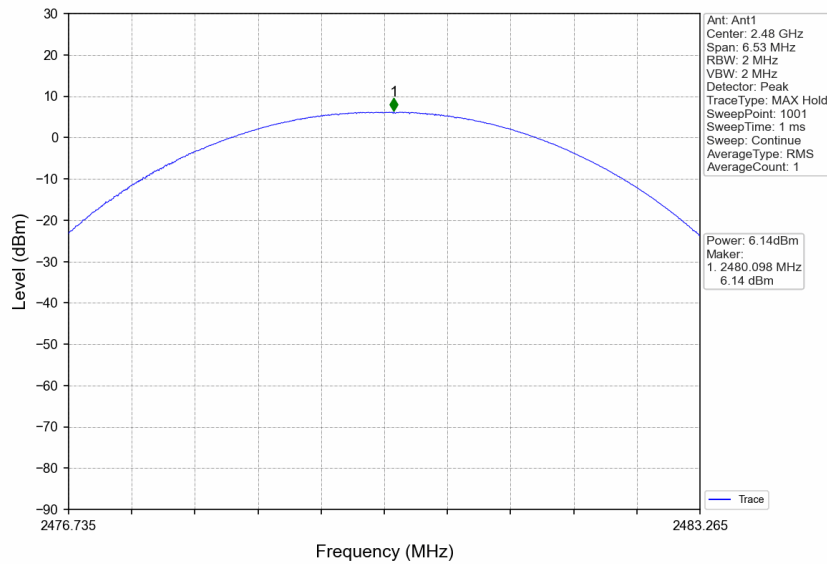


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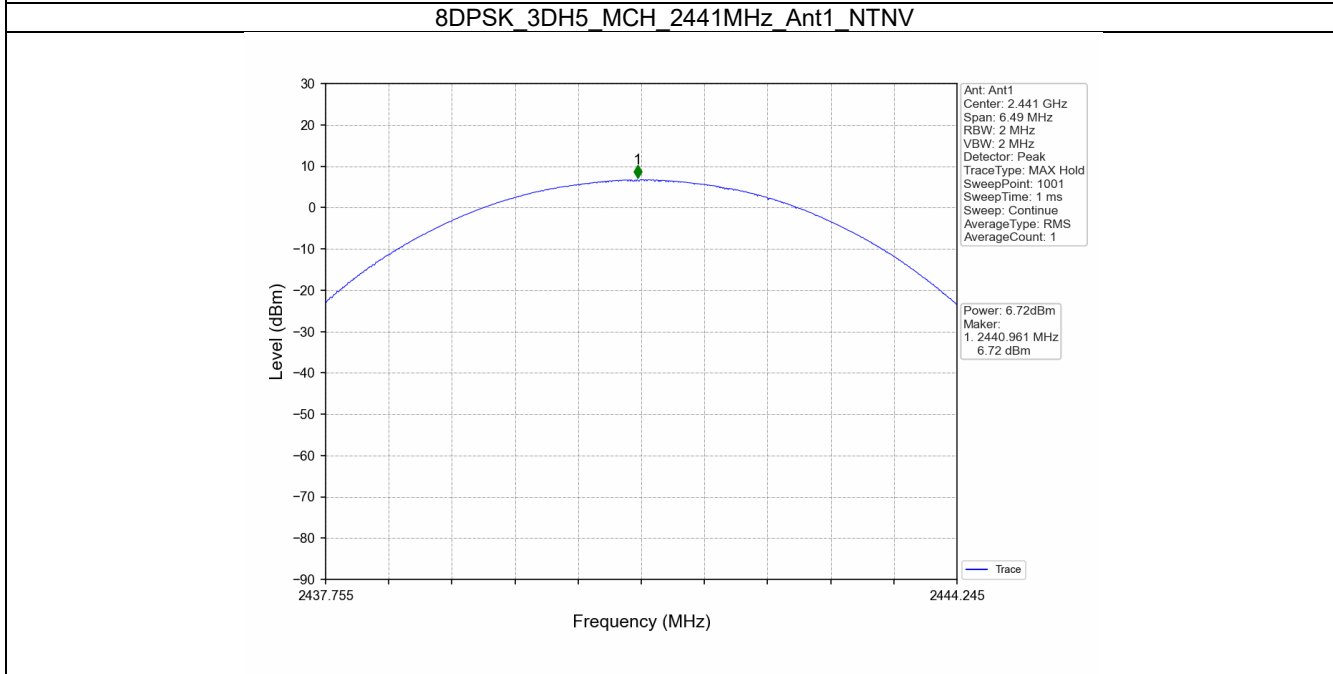
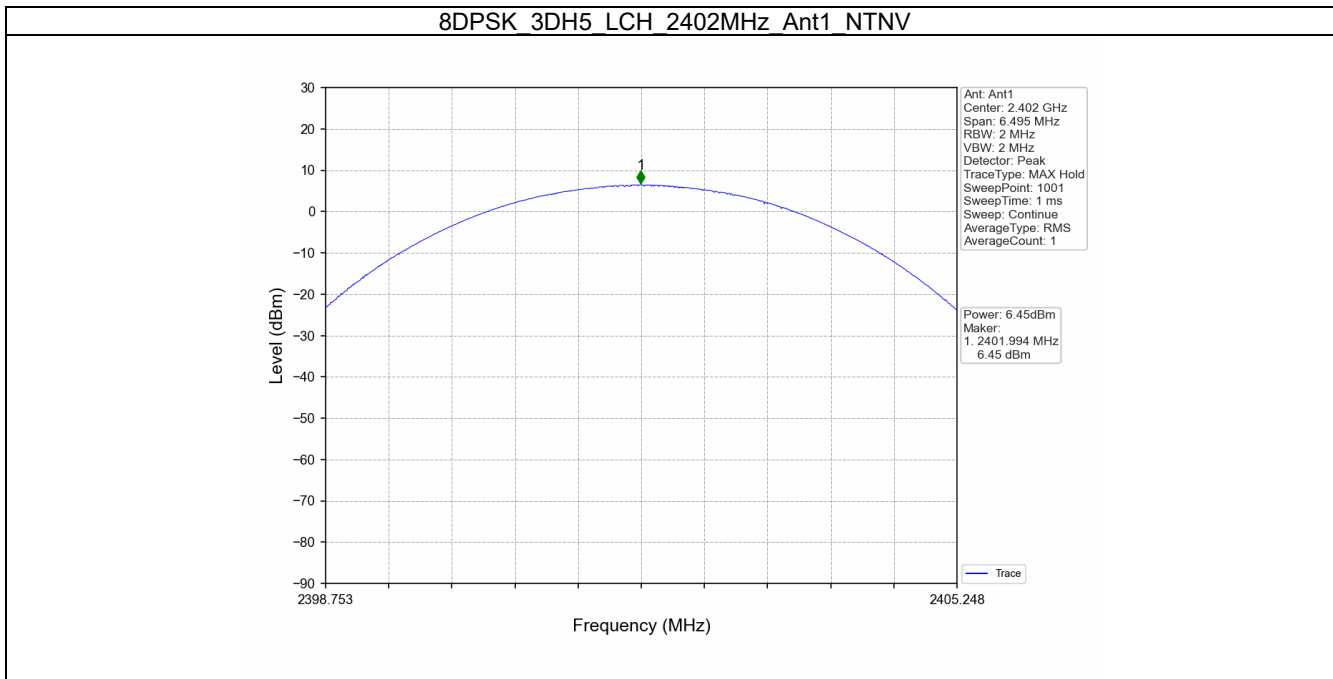
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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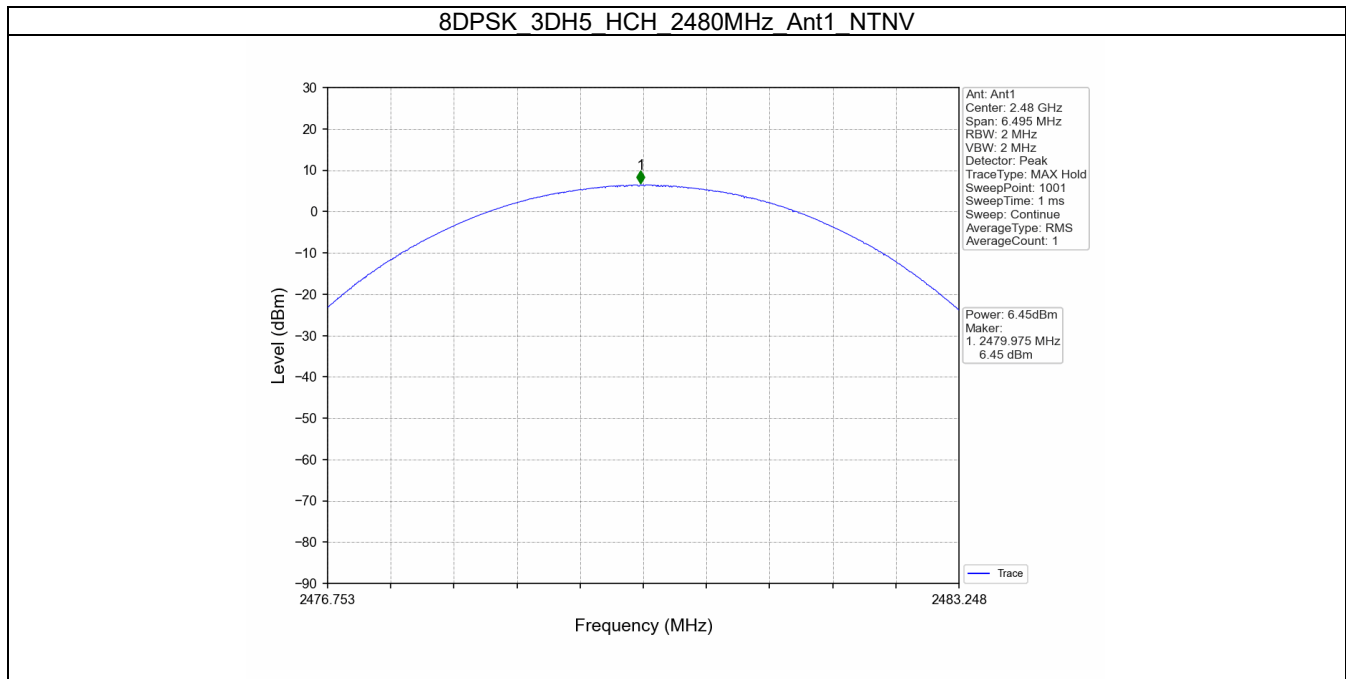
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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.958	>=0.958	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.312	>=0.875	Pass
8DPSK	SISO	HOPP	3DH5	1.003	1.299	>=0.866	Pass

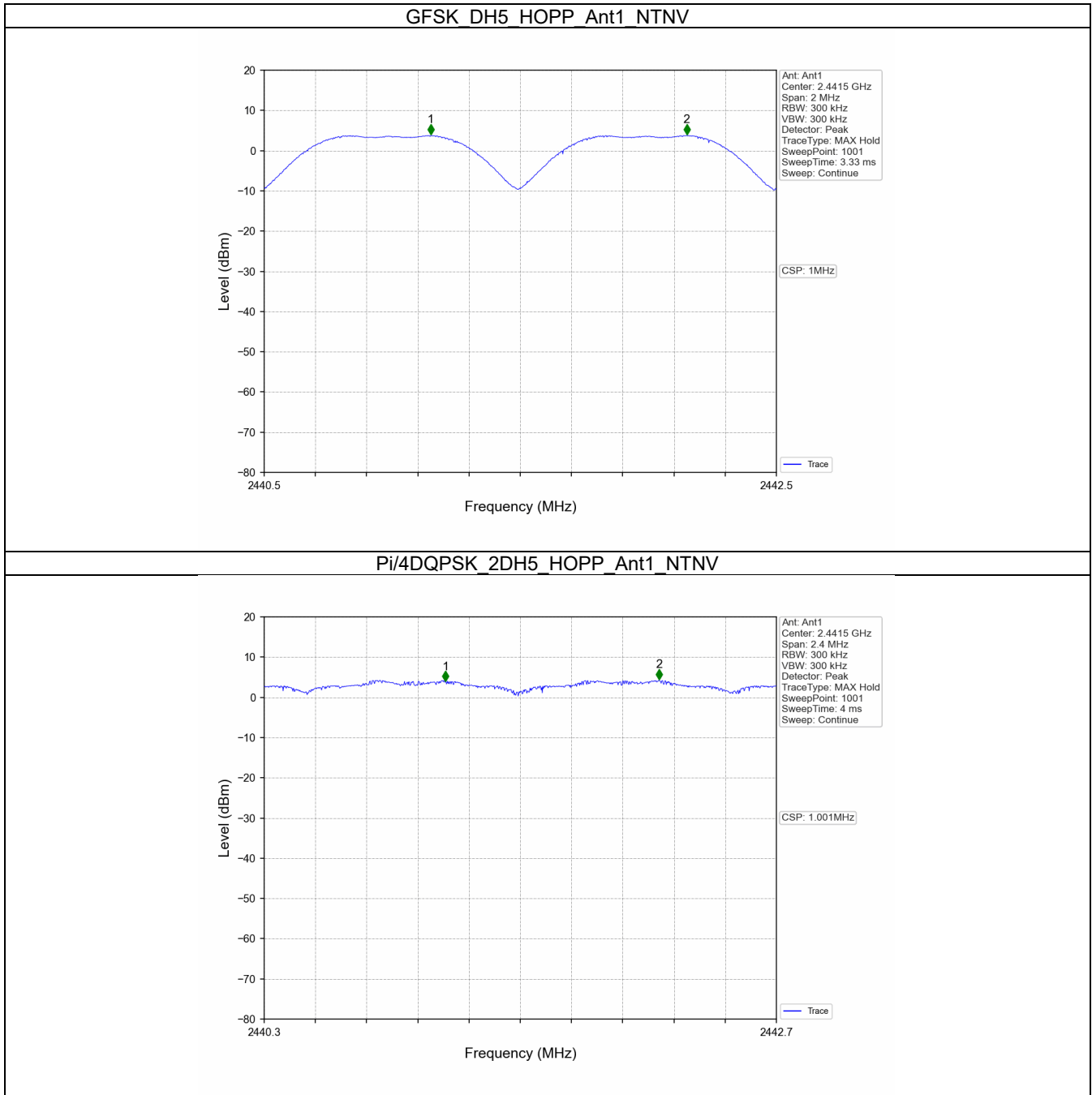


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3.1.2 Test Graph

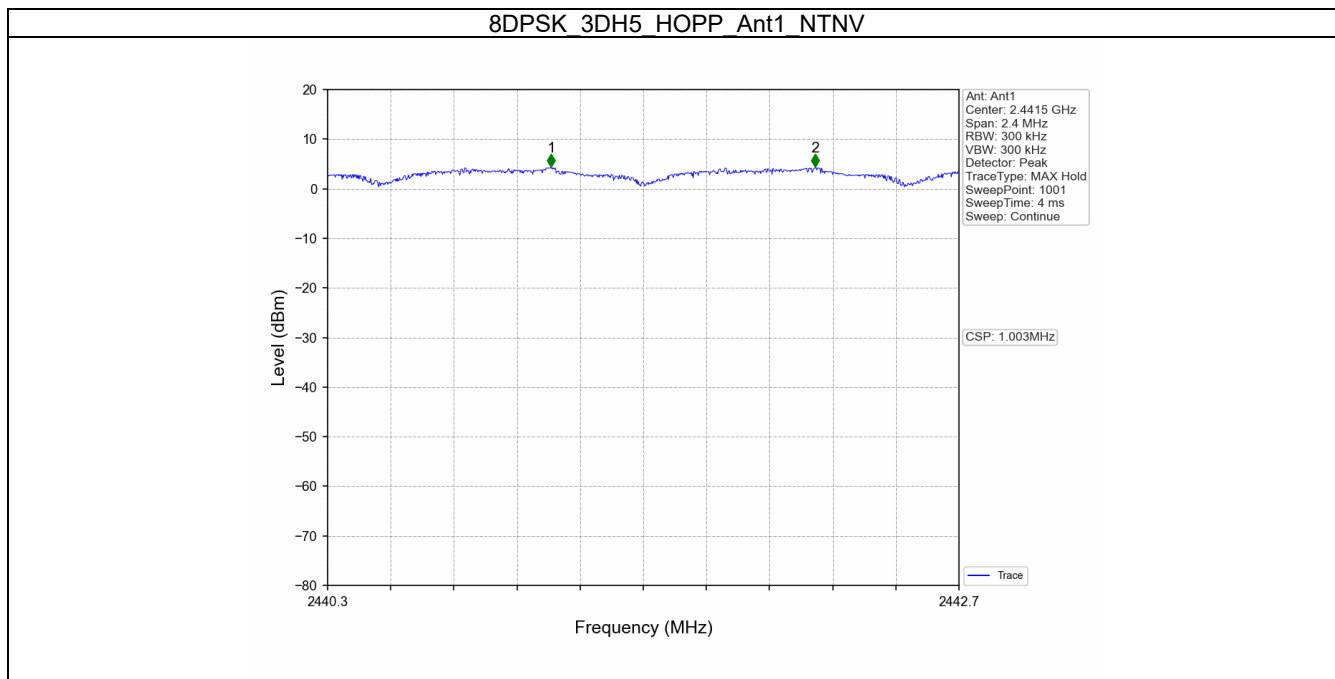


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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

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

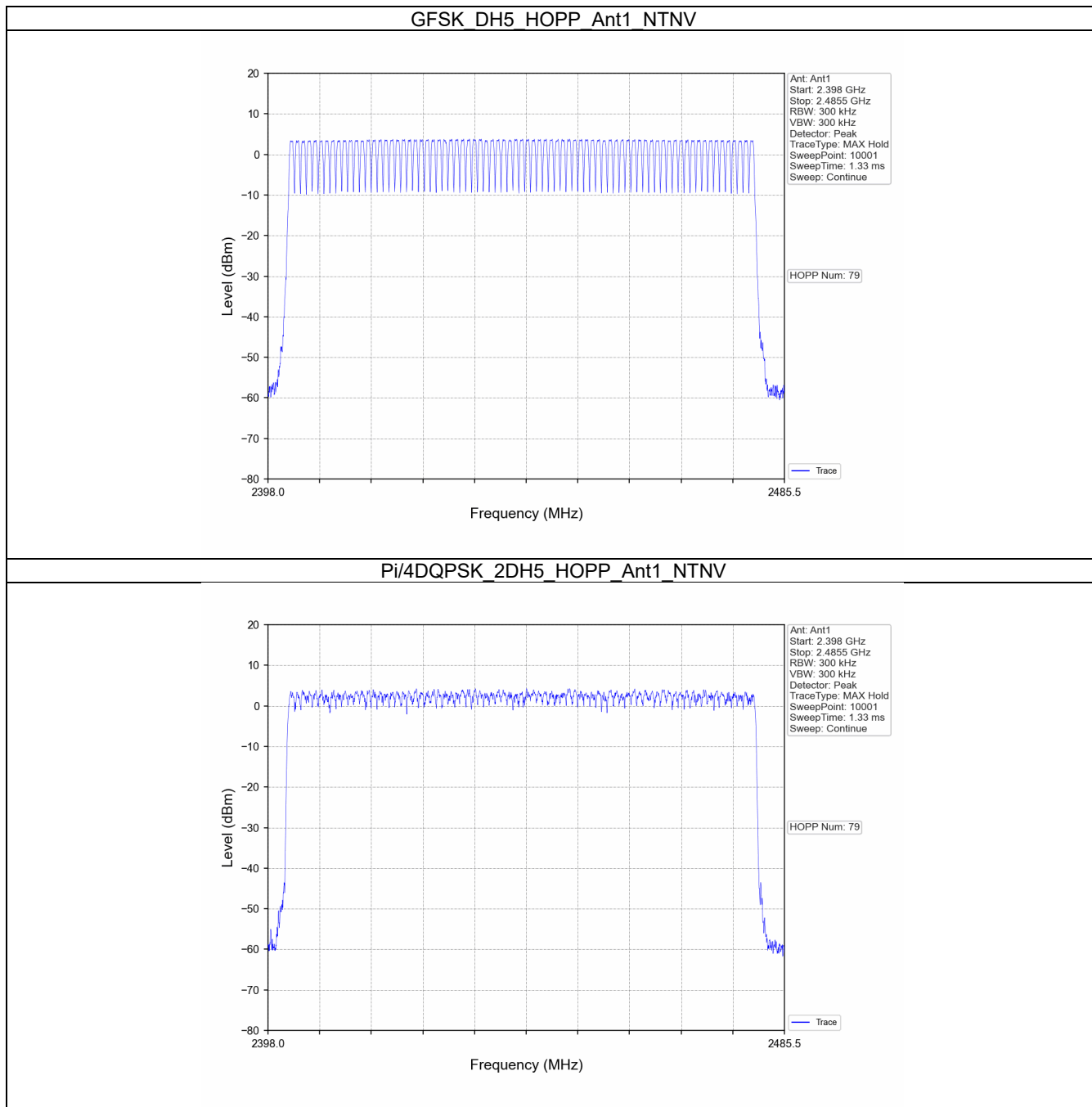


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4.1.2 Test Graph



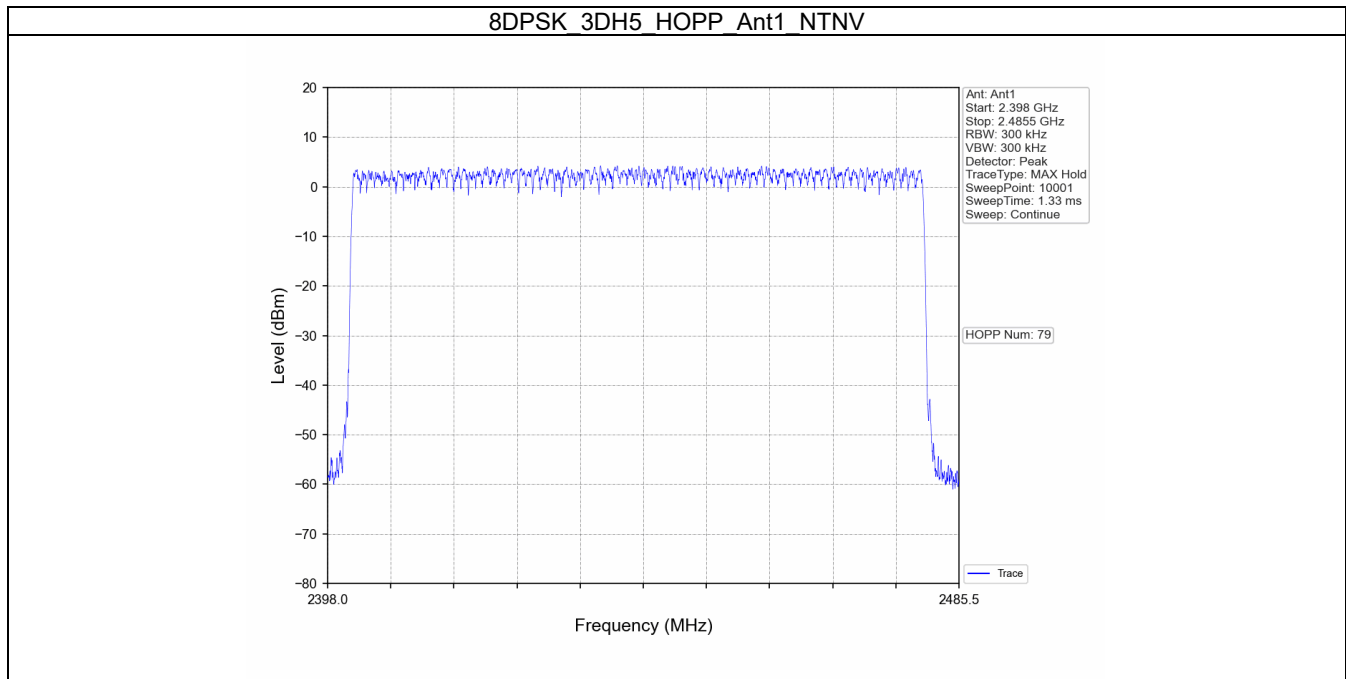
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.372	31.600	163	60.636	<=400	Pass
			DH3	1.630	31.600	158	257.540	<=400	Pass
			DH5	2.876	31.600	76	218.576	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	160	61.120	<=400	Pass
			2DH3	1.634	31.600	164	267.976	<=400	Pass
			2DH5	2.882	31.600	79	227.678	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.384	31.600	164	62.976	<=400	Pass
			3DH3	1.632	31.600	164	267.648	<=400	Pass
			3DH5	2.882	31.600	85	244.970	<=400	Pass

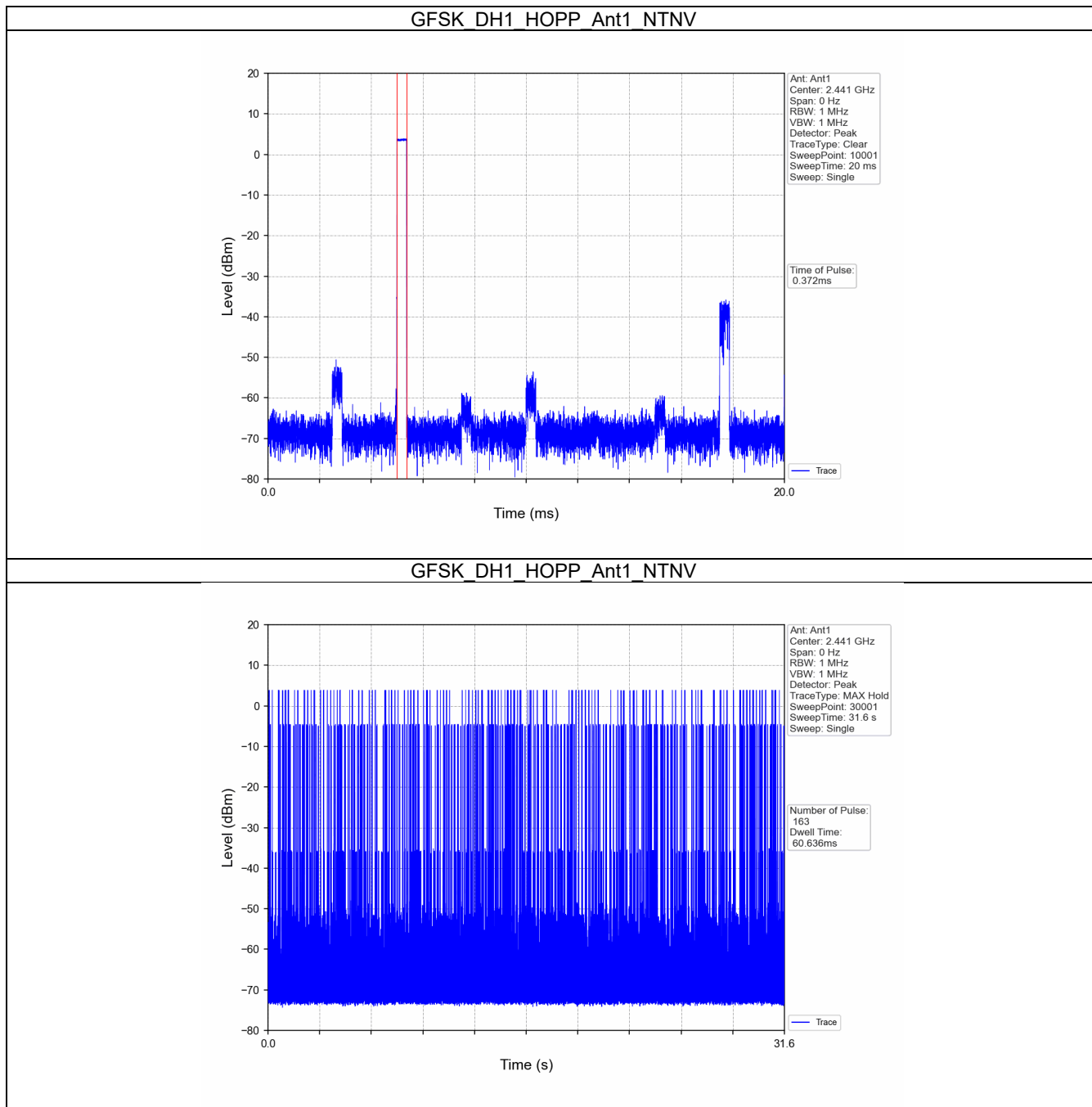


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5.1.2 Test Graph



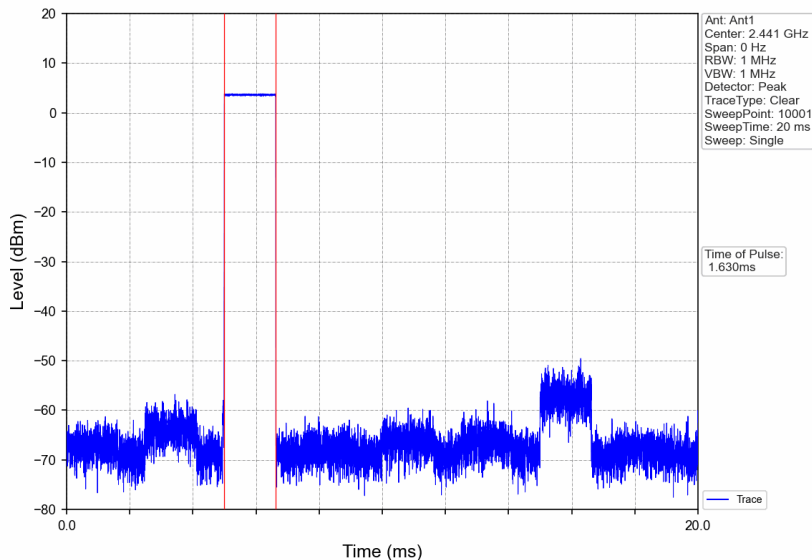
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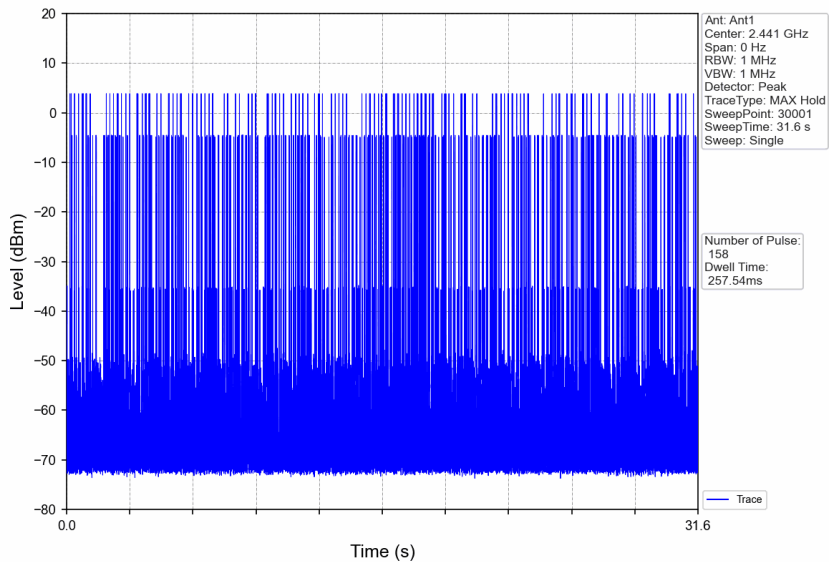
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GFSK DH3 HOPP Ant1 NTN



GFSK DH3_HOPP_Ant1_NTN



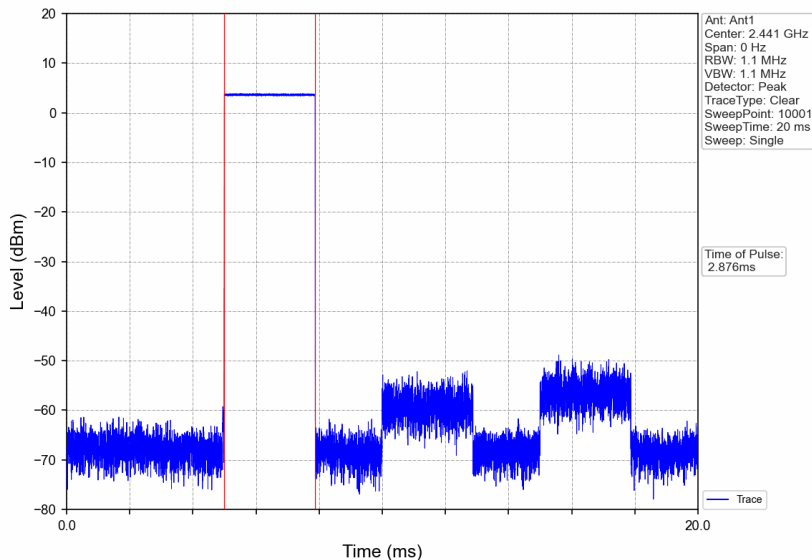
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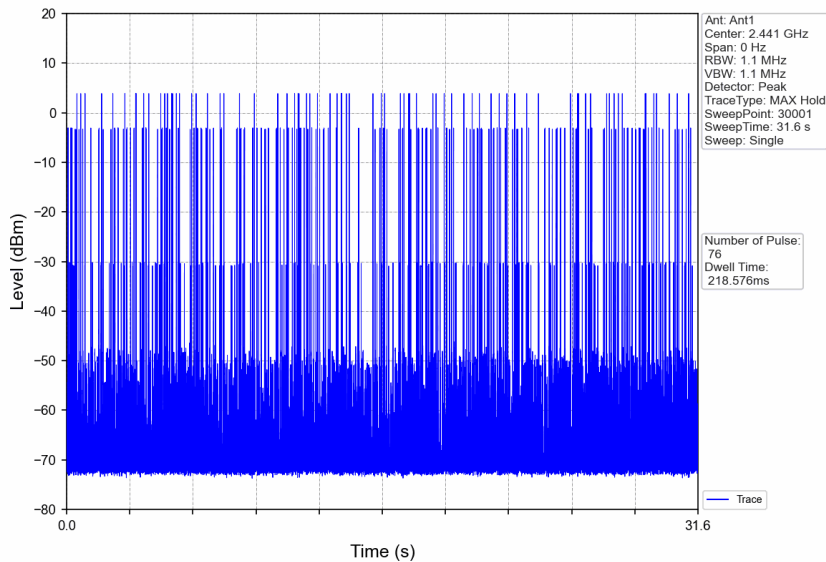
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GFSK DH5 HOPP Ant1 NTN



GFSK DH5_HOPP_Ant1_NTNV



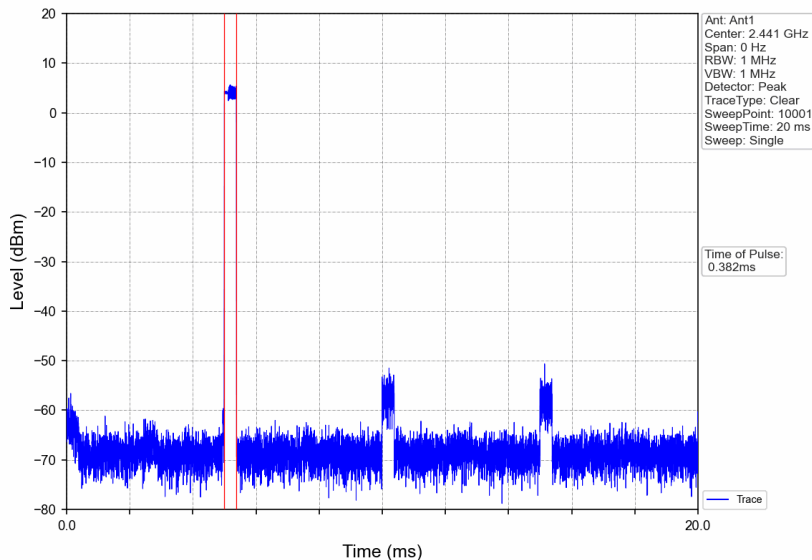
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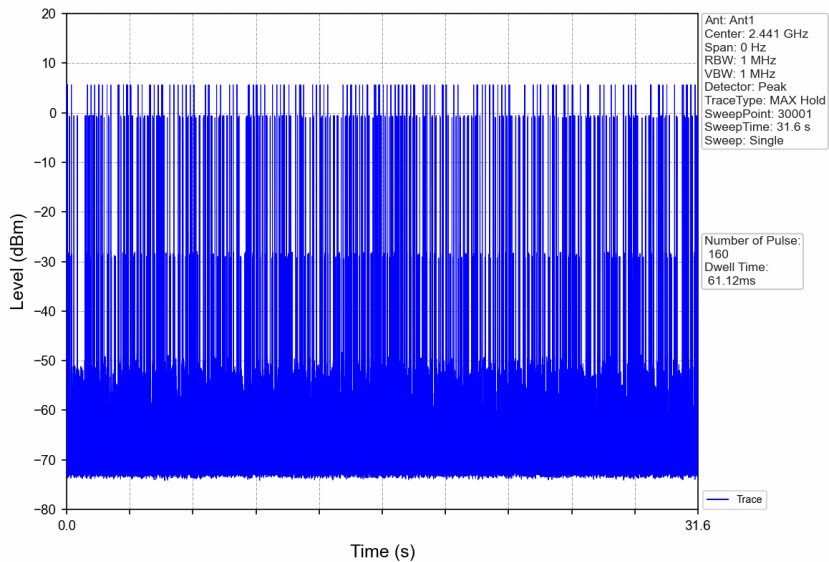
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



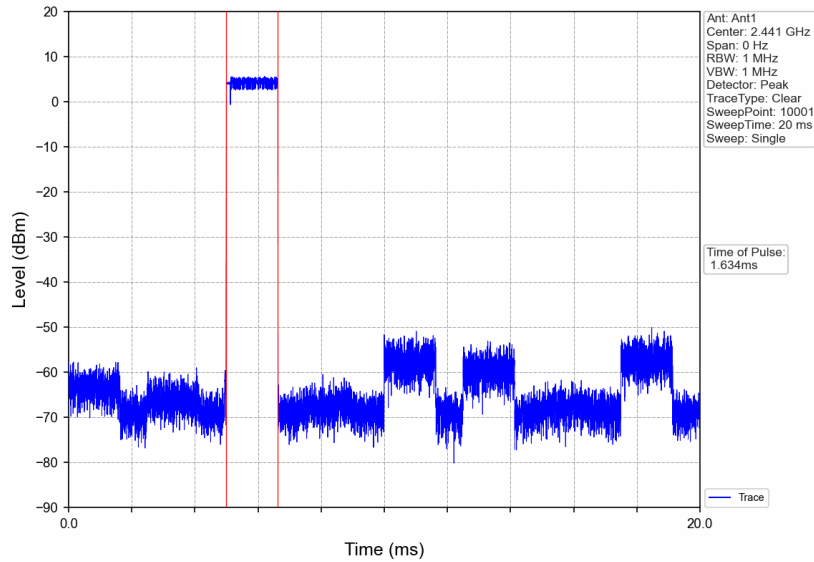
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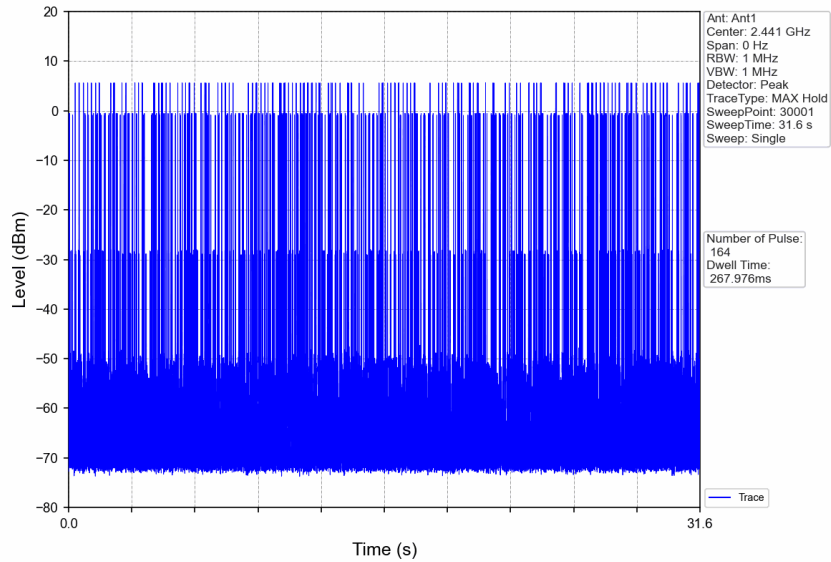
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



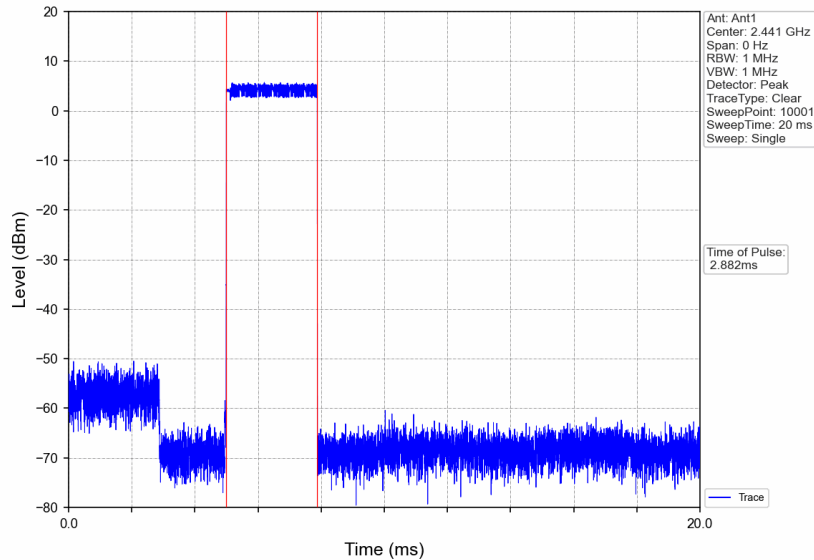
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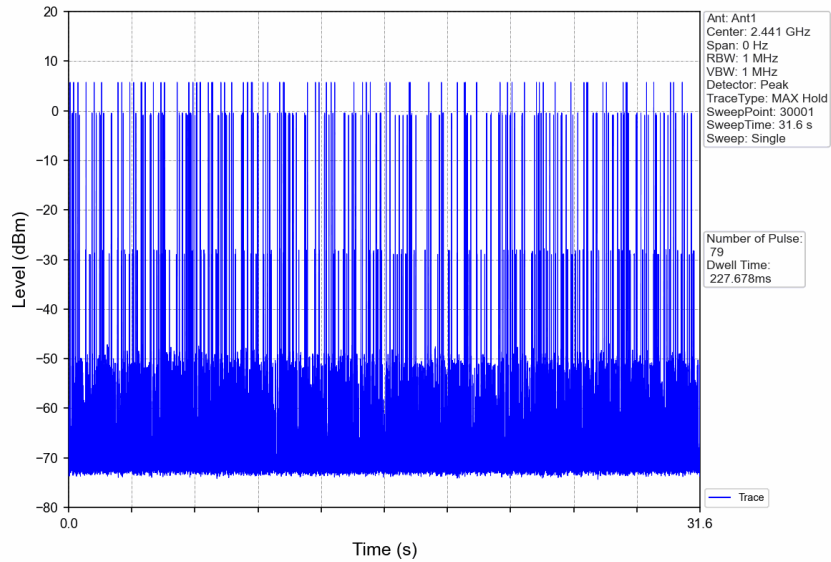
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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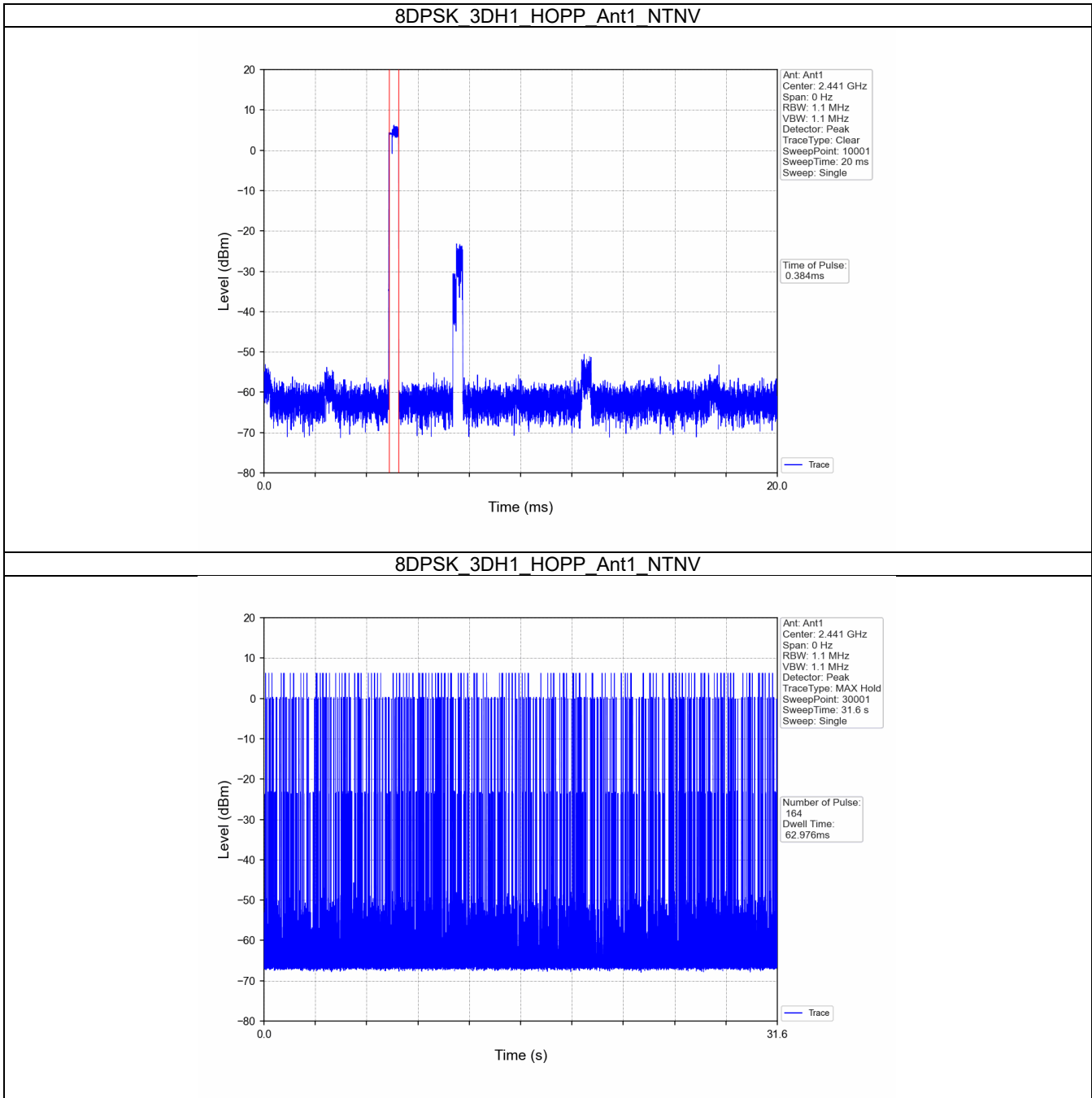


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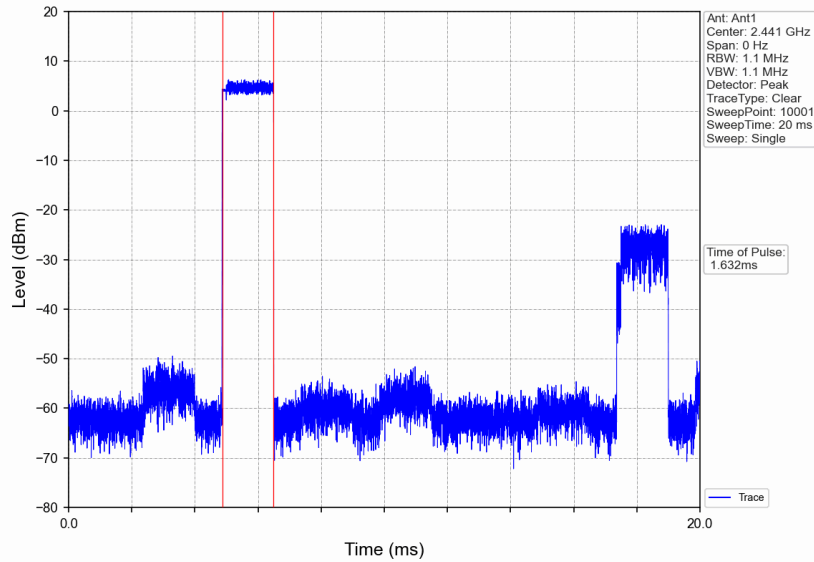
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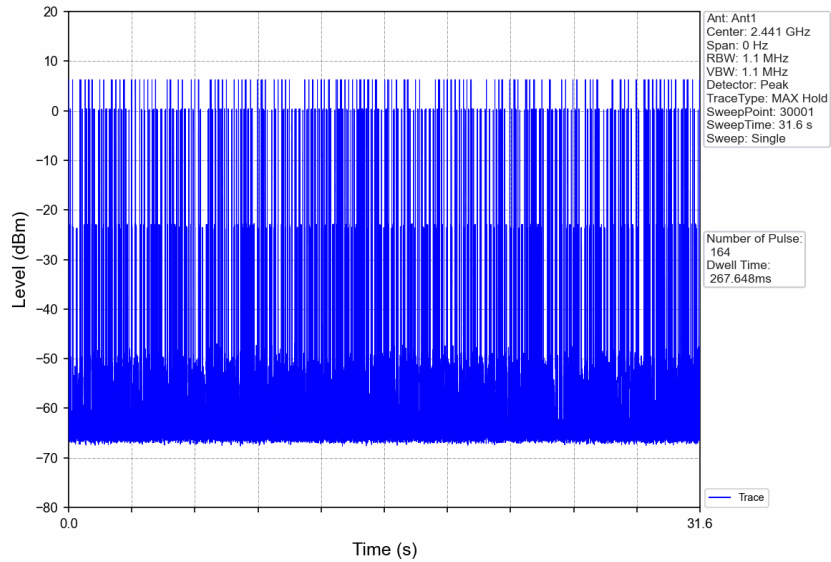
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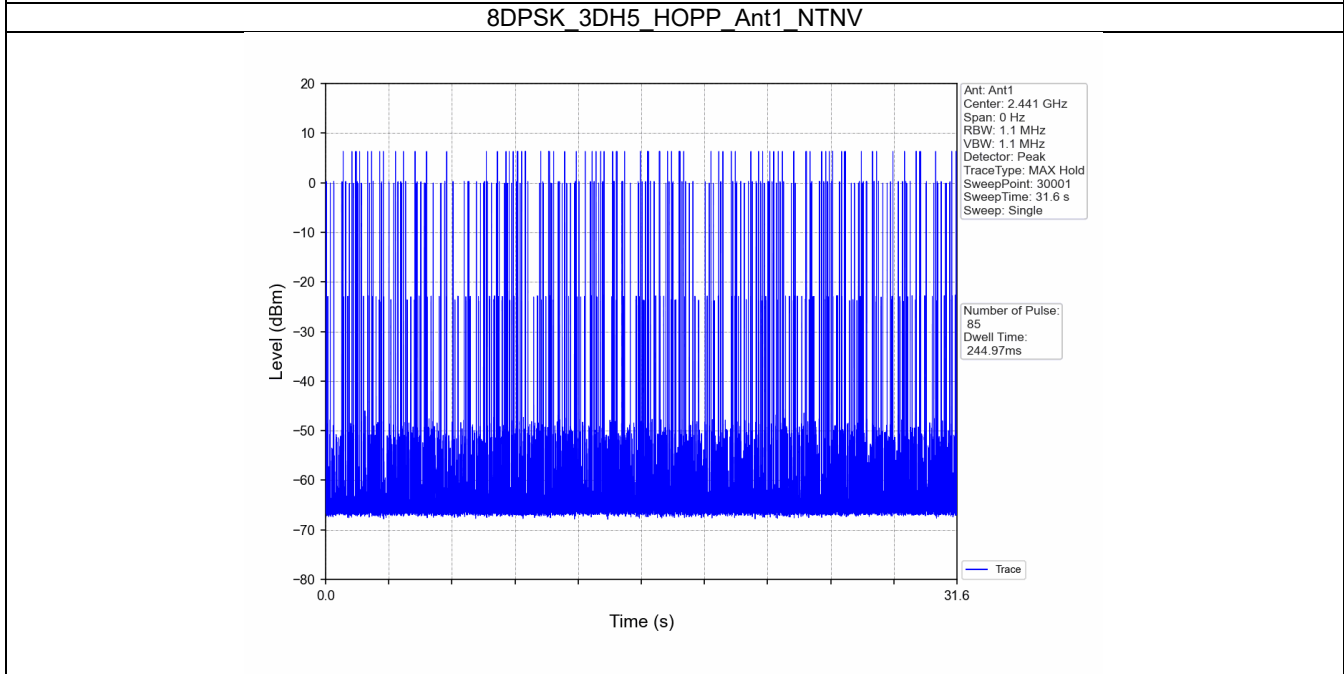
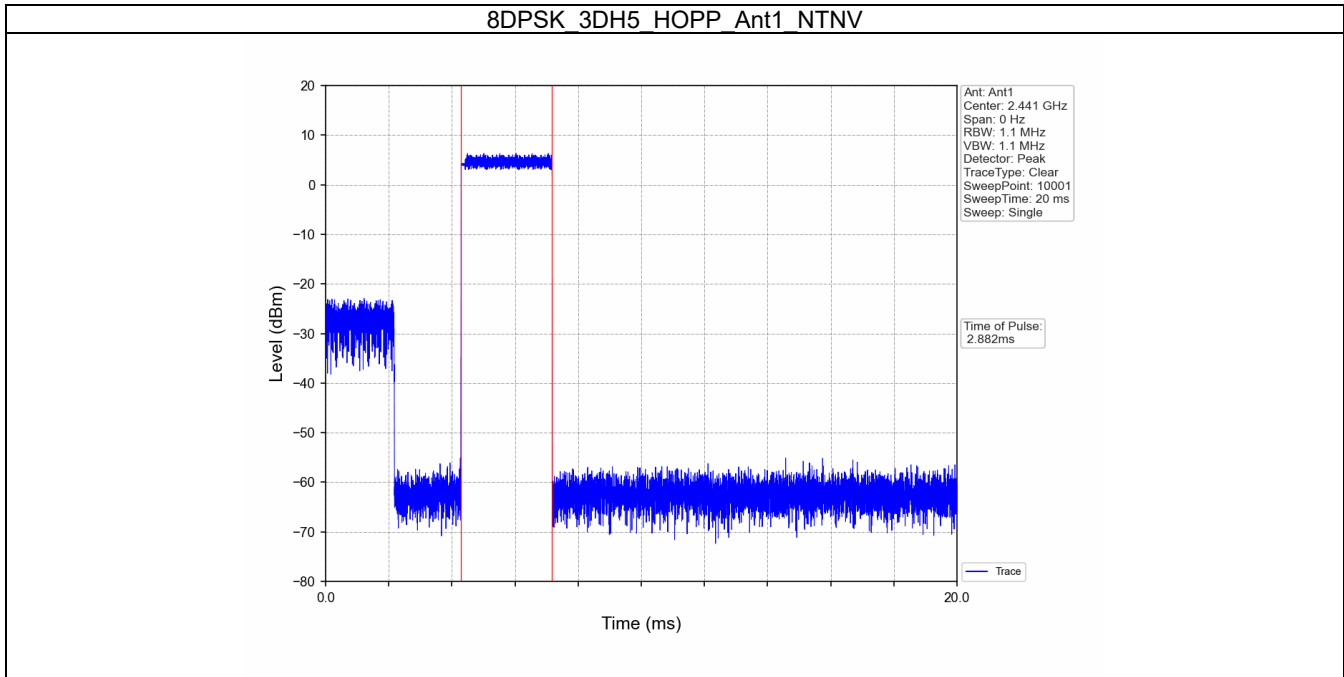
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.17
		2441	DH5	1	3.45
		2480	DH5	1	3.14
Pi/4DQPSK	SISO	2402	2DH5	1	3.54
		2441	2DH5	1	3.95
		2480	2DH5	1	3.64
8DPSK	SISO	2402	3DH5	1	3.56
		2441	3DH5	1	3.83
		2480	3DH5	1	3.50

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



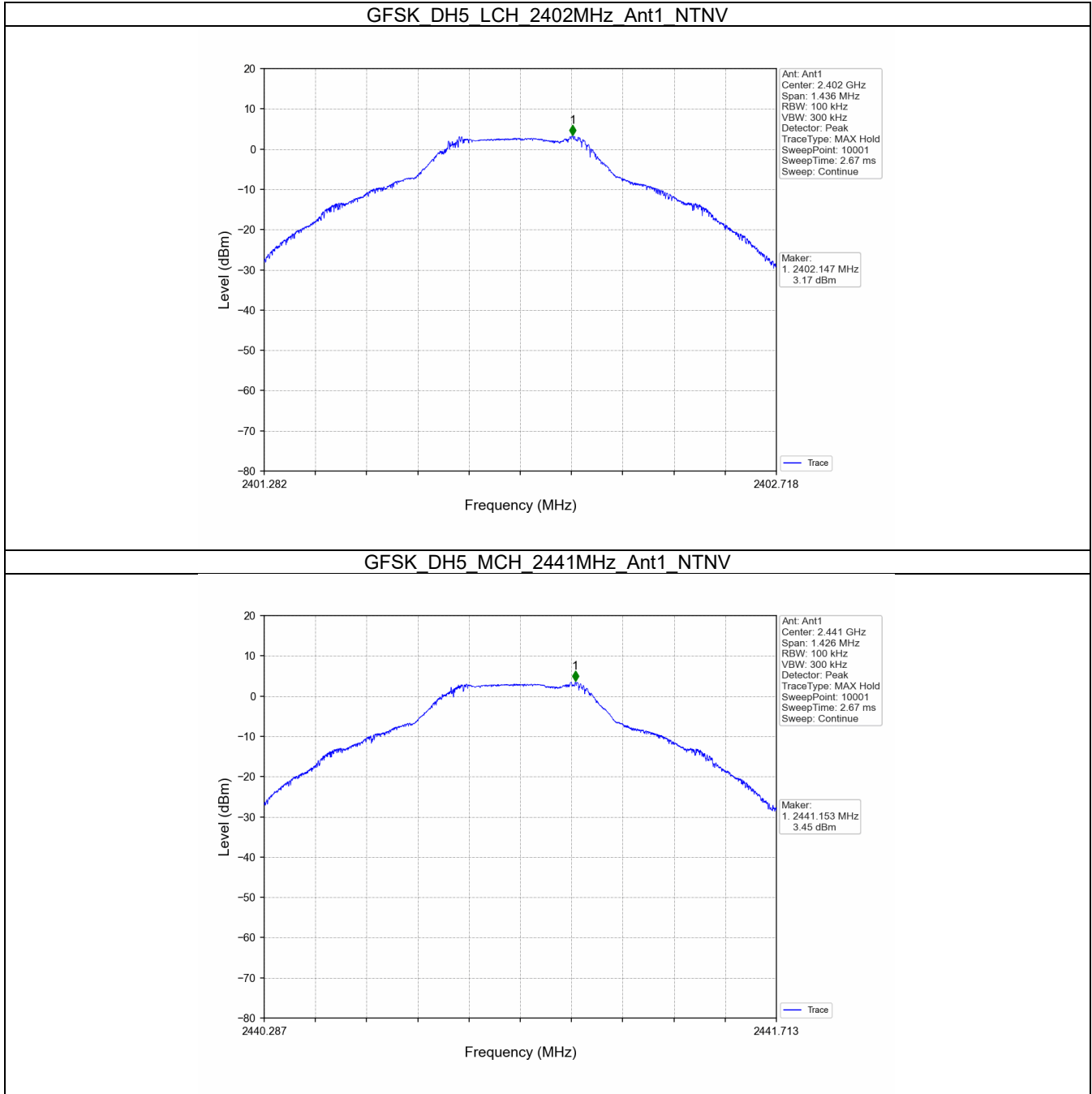
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6.1.2 Test Graph



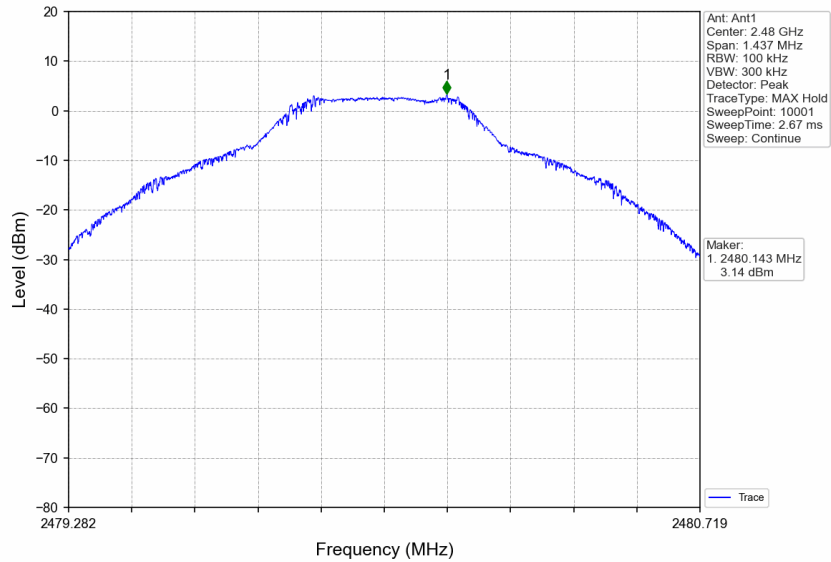
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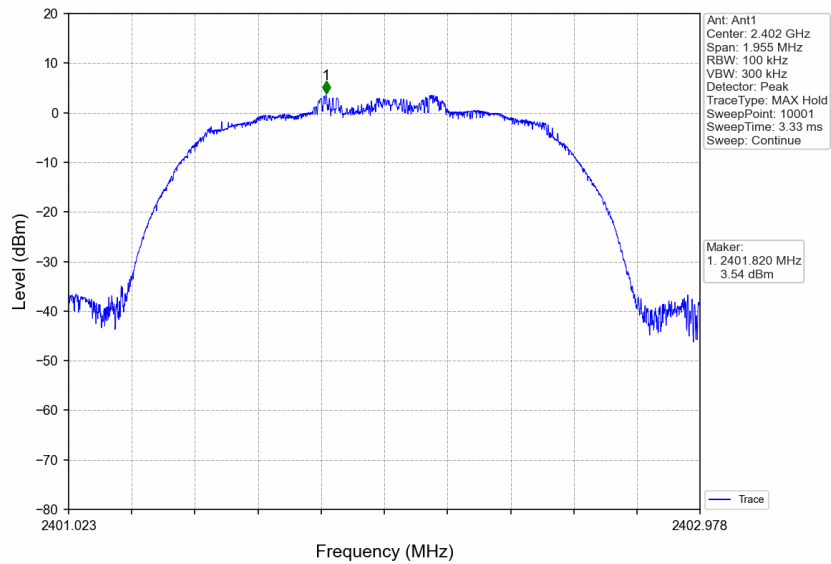
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GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK_2DH5 LCH 2402MHz Ant1 NTN



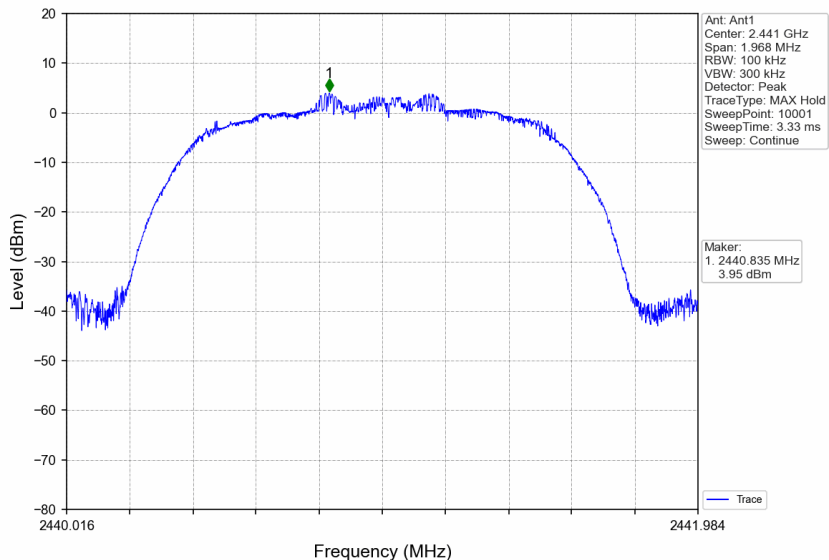
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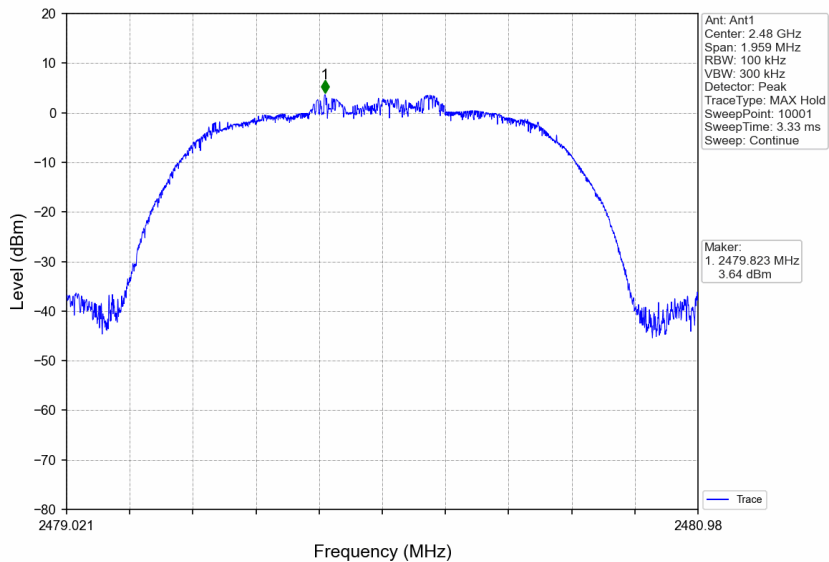
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



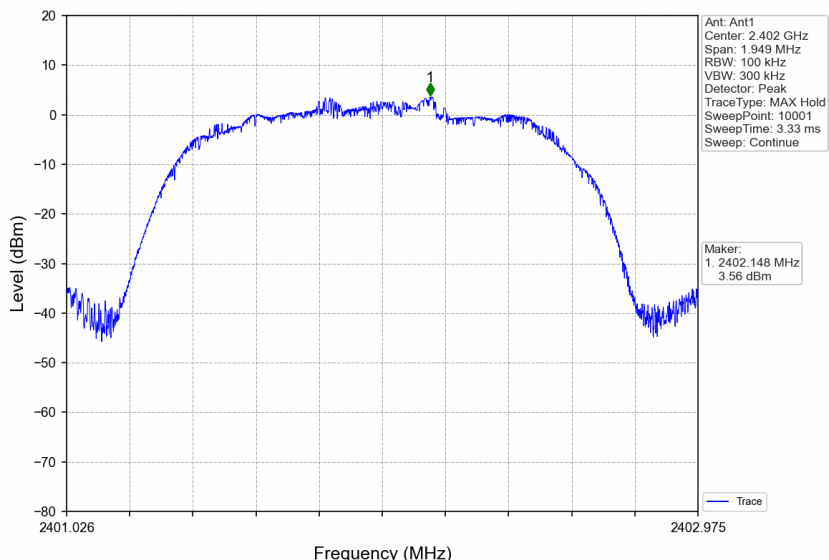
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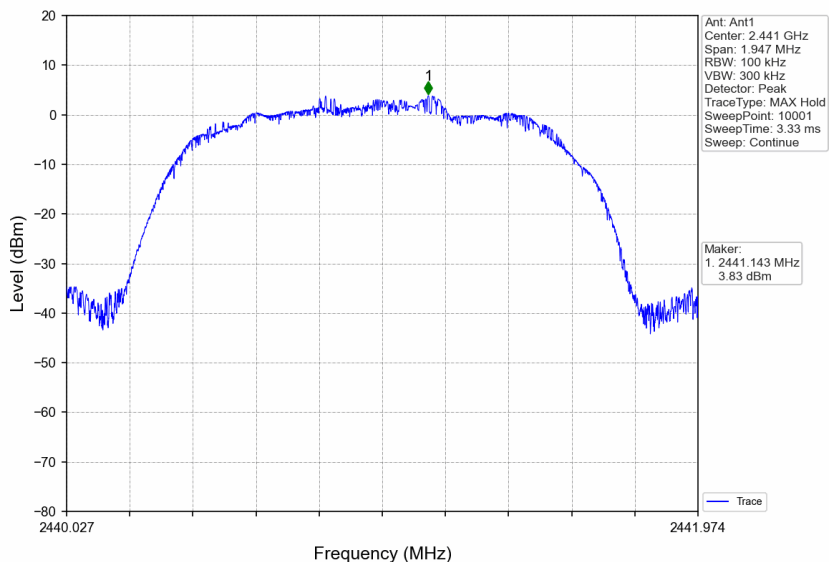
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8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5_MCH 2441MHz Ant1 NTN

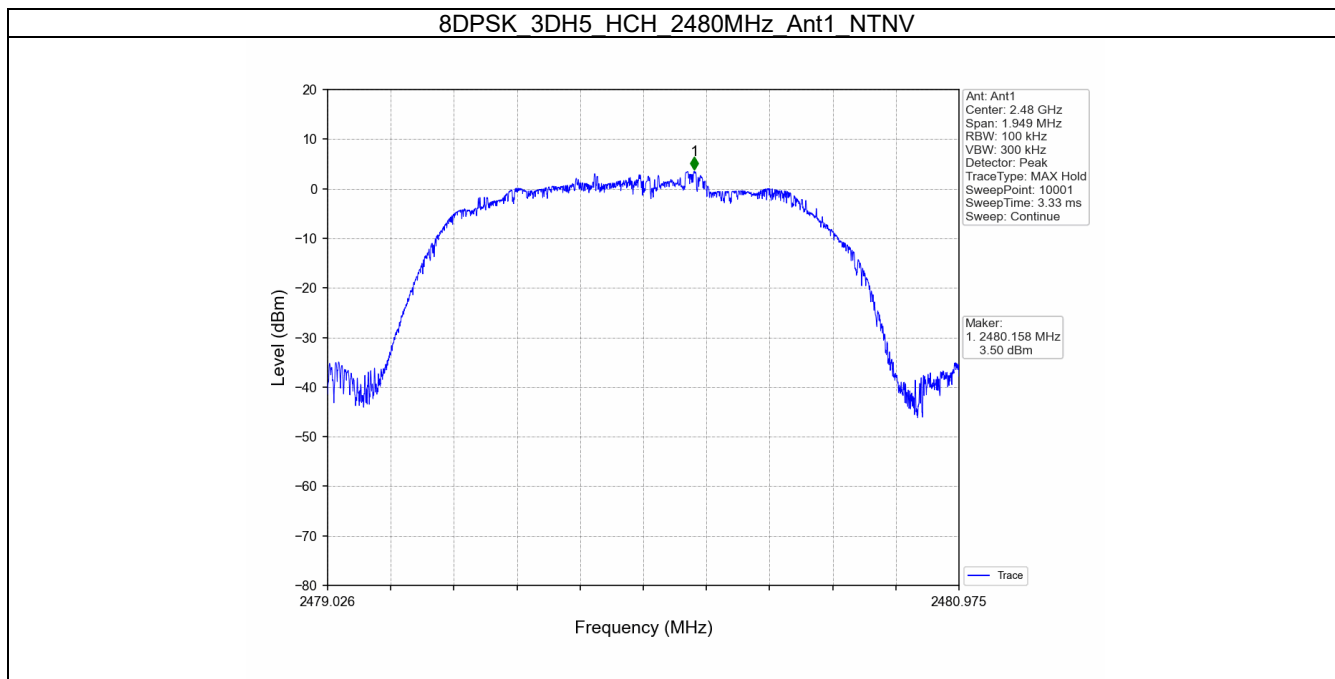


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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.45	-16.55	Pass
		2441	DH5	1	3.45	-16.55	Pass
		2480	DH5	1	3.45	-16.55	Pass
		HOPP	DH5	1	3.45	-16.55	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.95	-16.05	Pass
		2441	2DH5	1	3.95	-16.05	Pass
		2480	2DH5	1	3.95	-16.05	Pass
		HOPP	2DH5	1	3.95	-16.05	Pass
8DPSK	SISO	2402	3DH5	1	3.83	-16.17	Pass
		2441	3DH5	1	3.83	-16.17	Pass
		2480	3DH5	1	3.83	-16.17	Pass
		HOPP	3DH5	1	3.83	-16.17	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



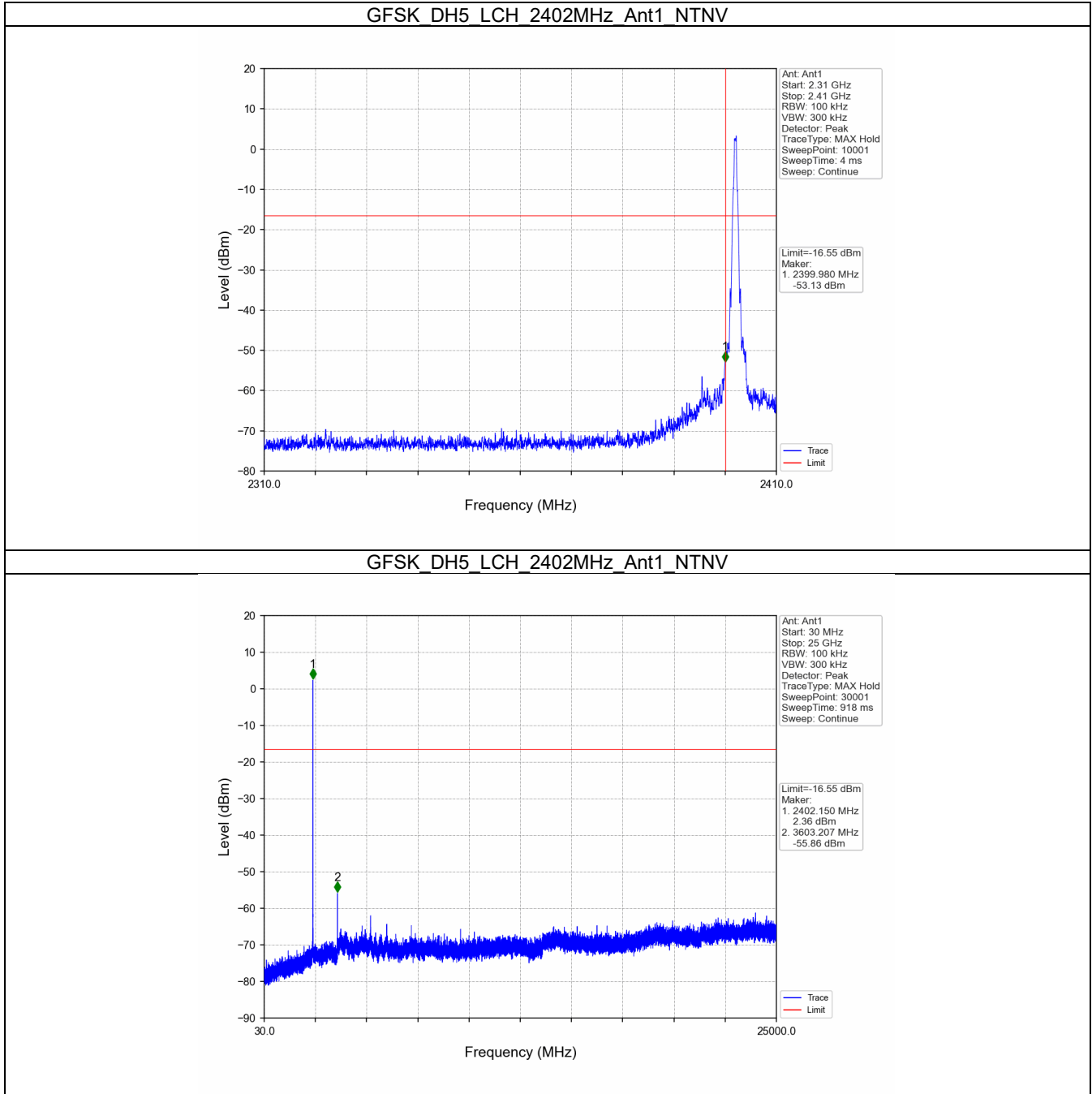
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6.2.2 Test Graph



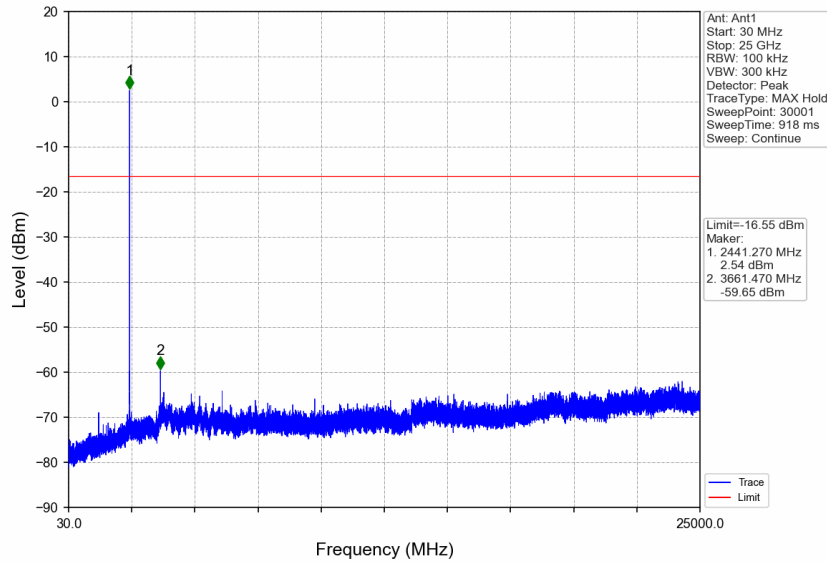
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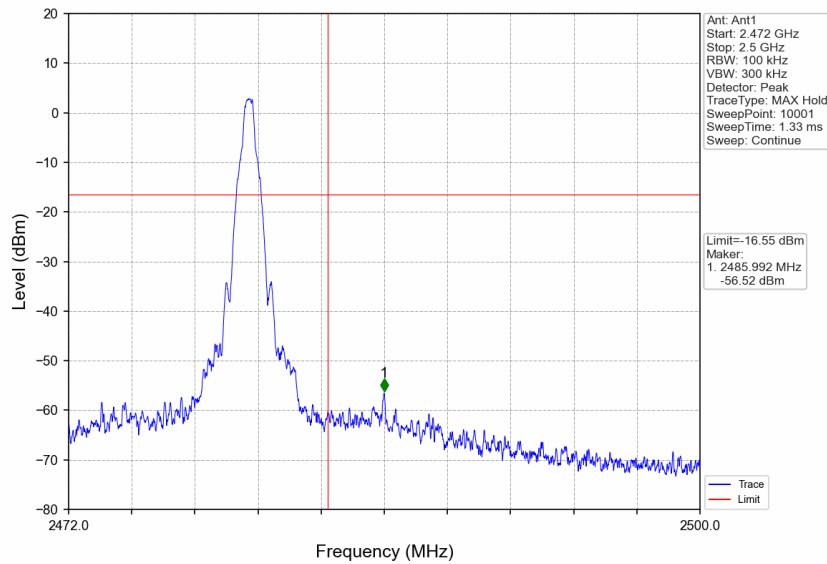
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GFSK DH5 MCH 2441MHz Ant1 NTN

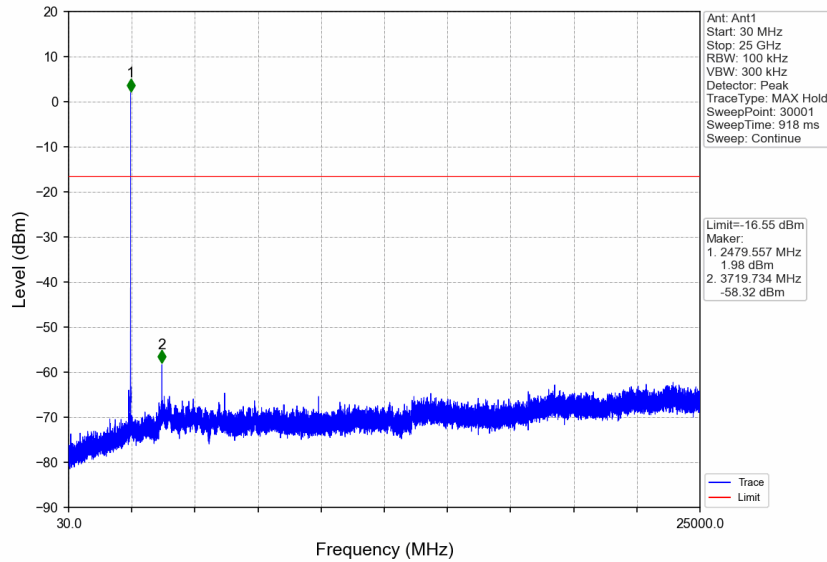


GFSK DH5_HCH_2480MHz_Ant1 NTN

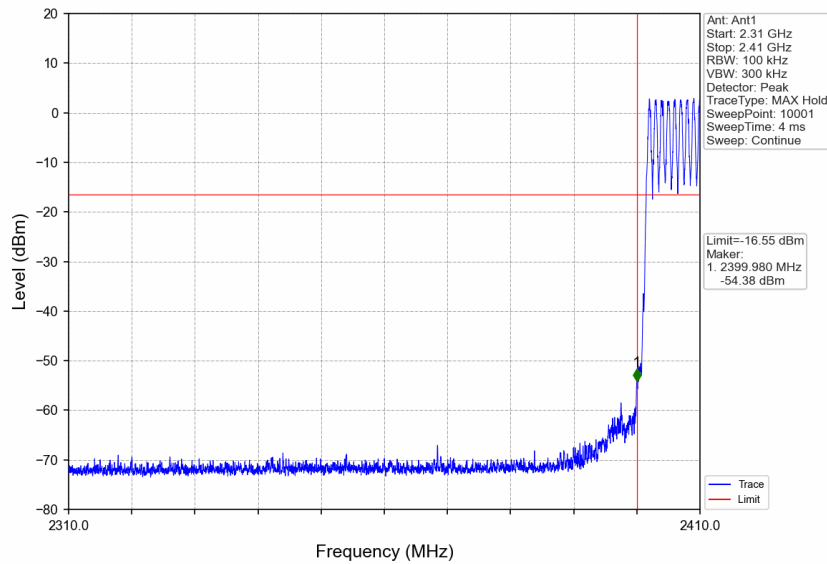


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GFSK DH5 HCH 2480MHz Ant1 NTN



GFSK DH5_HOPP_Ant1_NTN



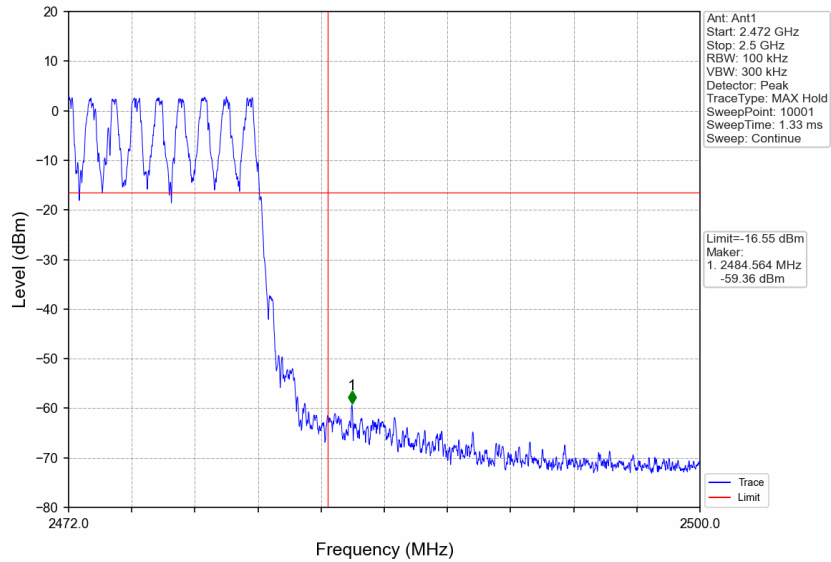
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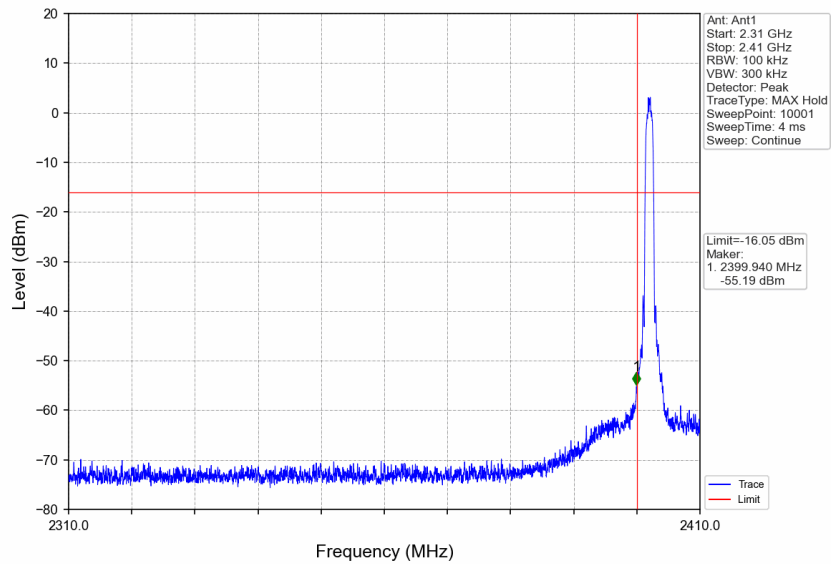
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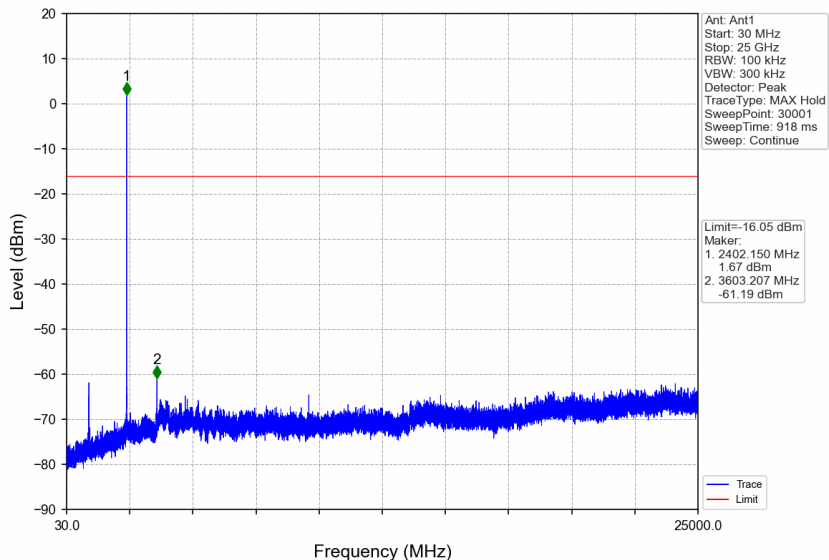


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN

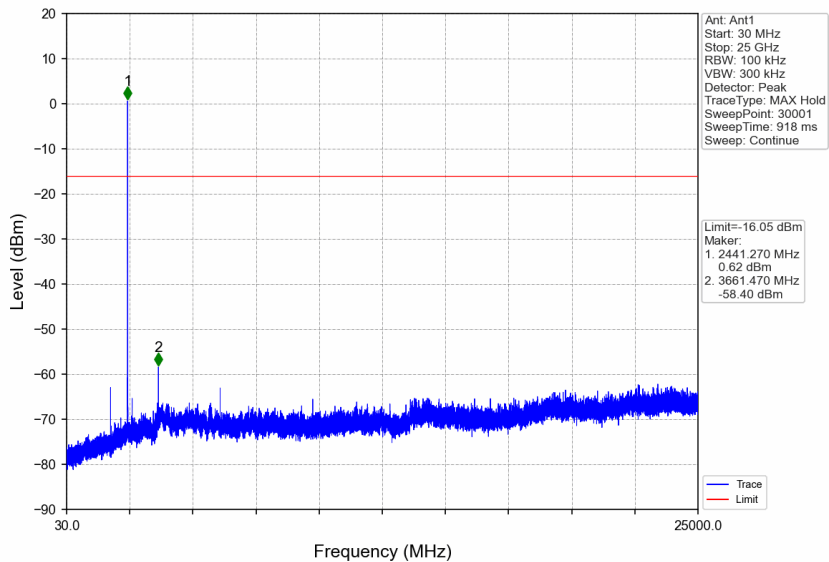


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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



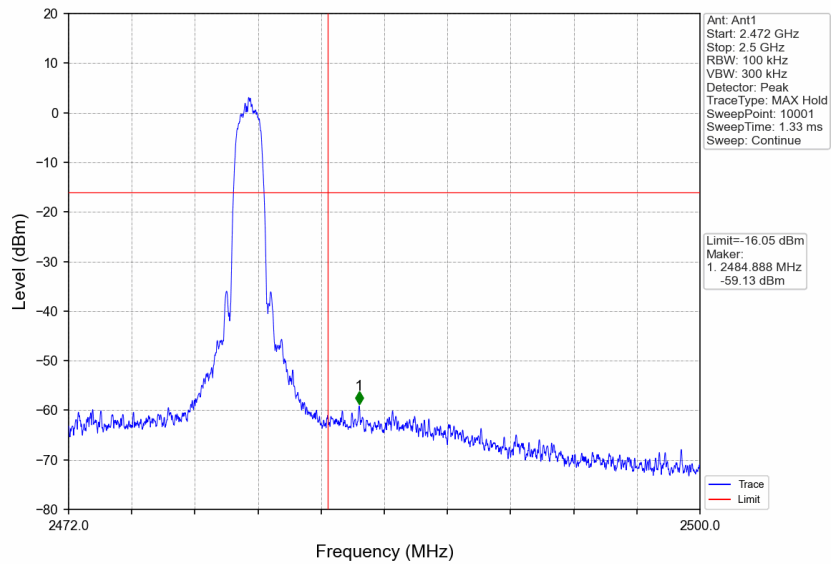
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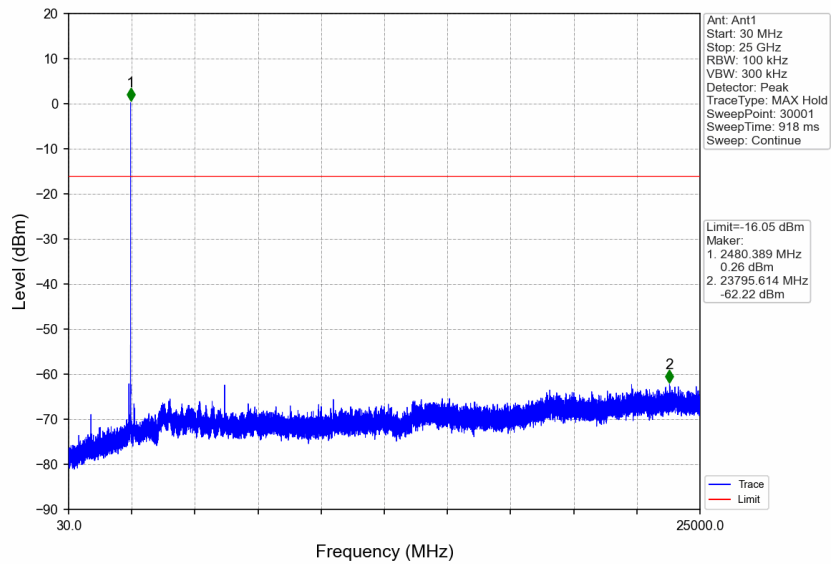
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

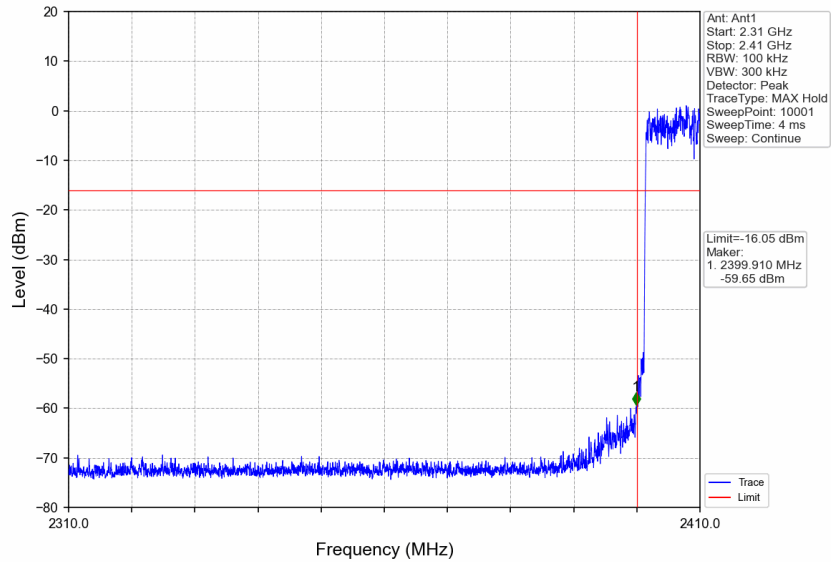


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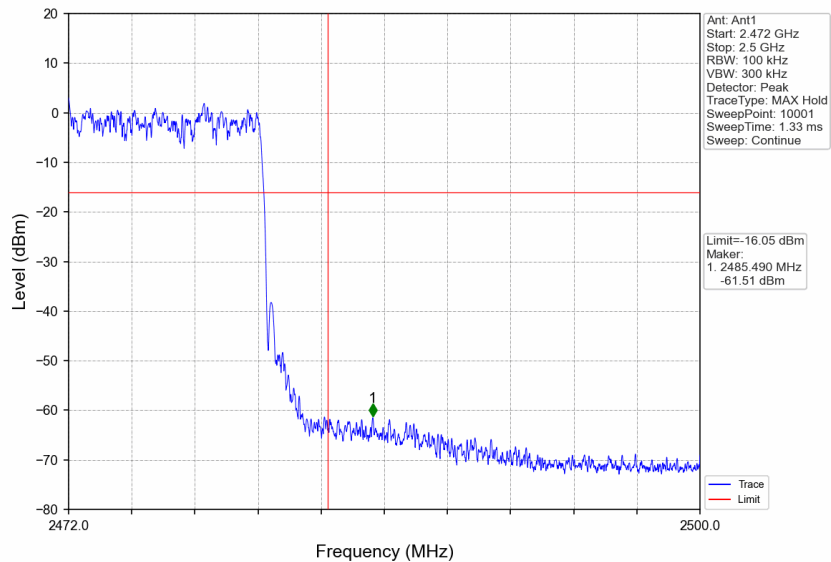


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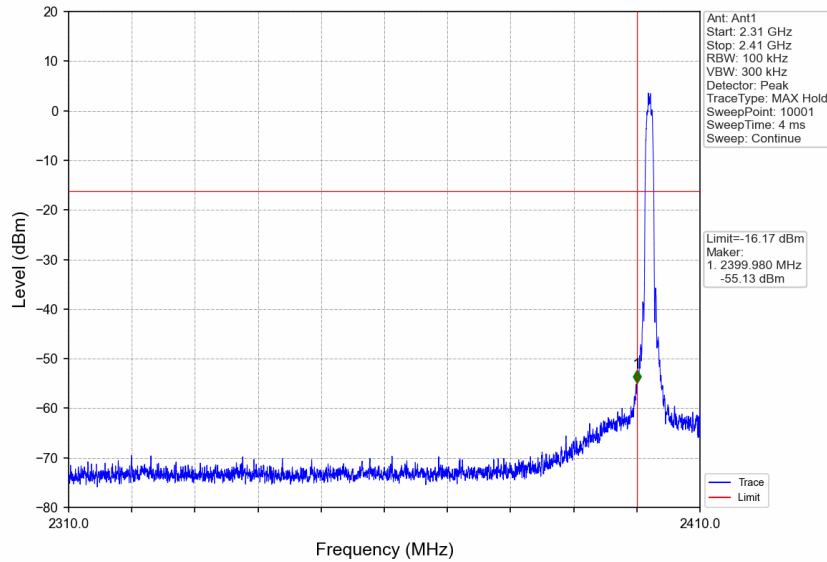


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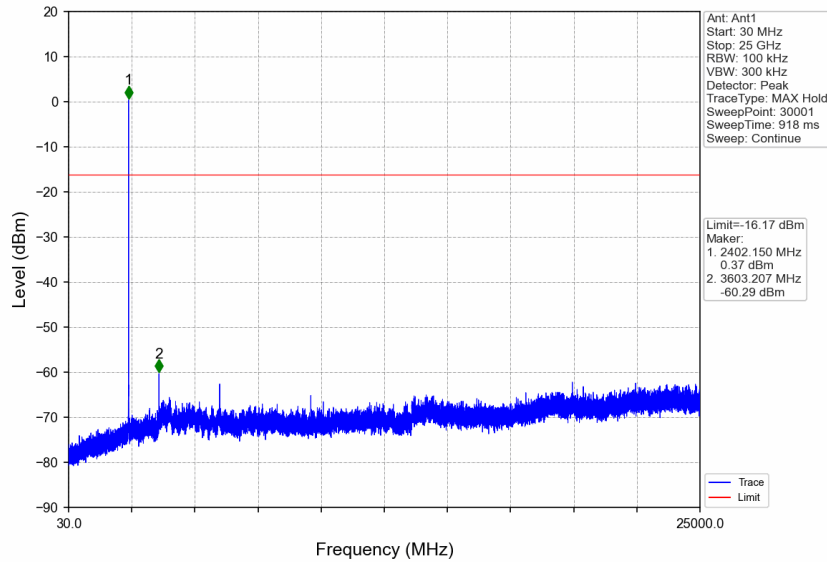


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8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 LCH 2402MHz Ant1 NTN



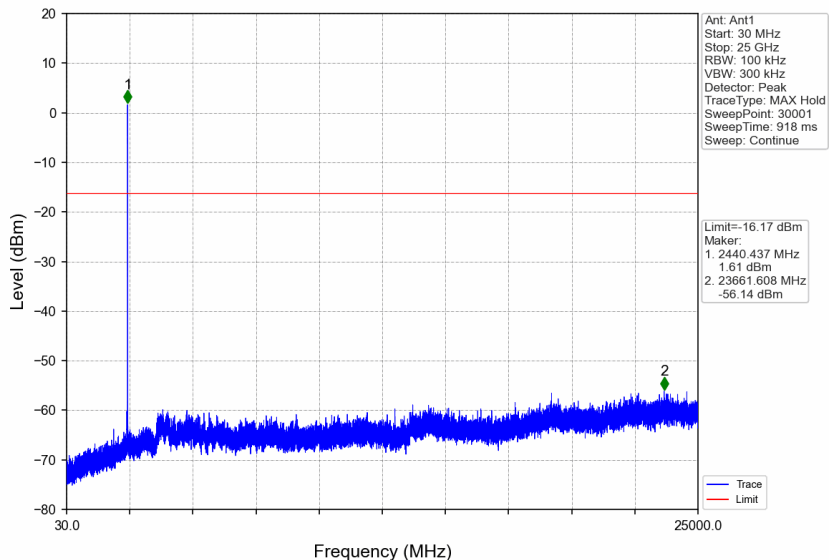
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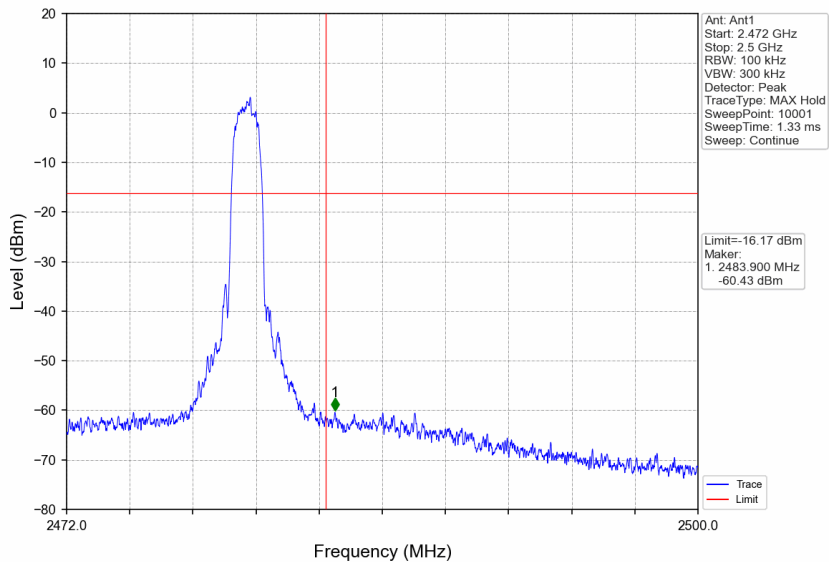
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



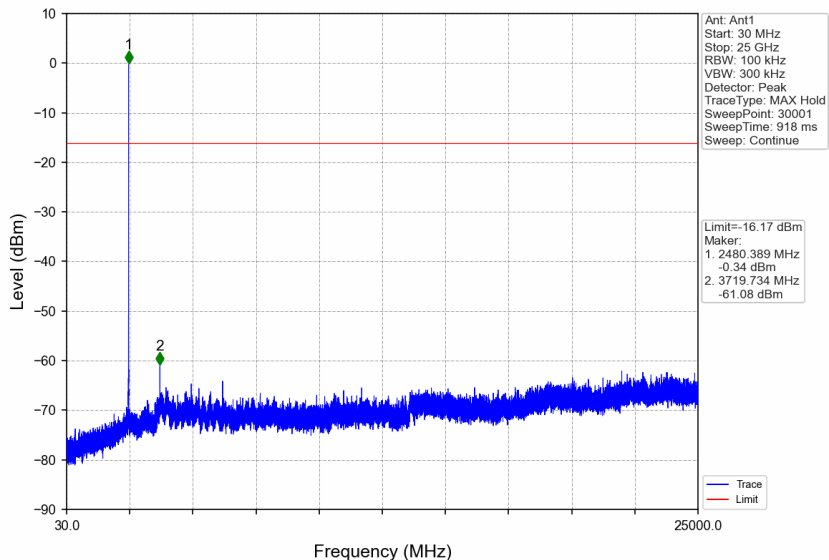
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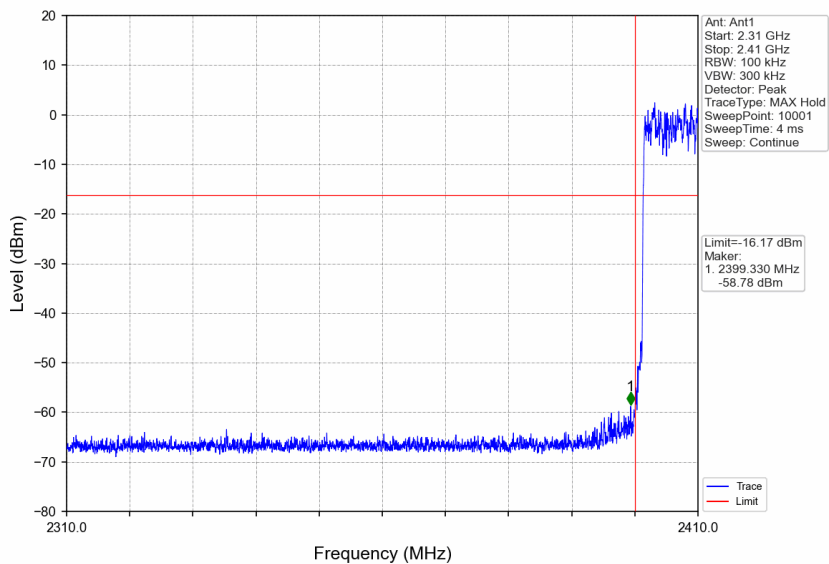
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8DPSK 3DH5 HCH 2480MHz Ant1 NTV



8DPSK 3DH5_HOPP_Ant1_NTV

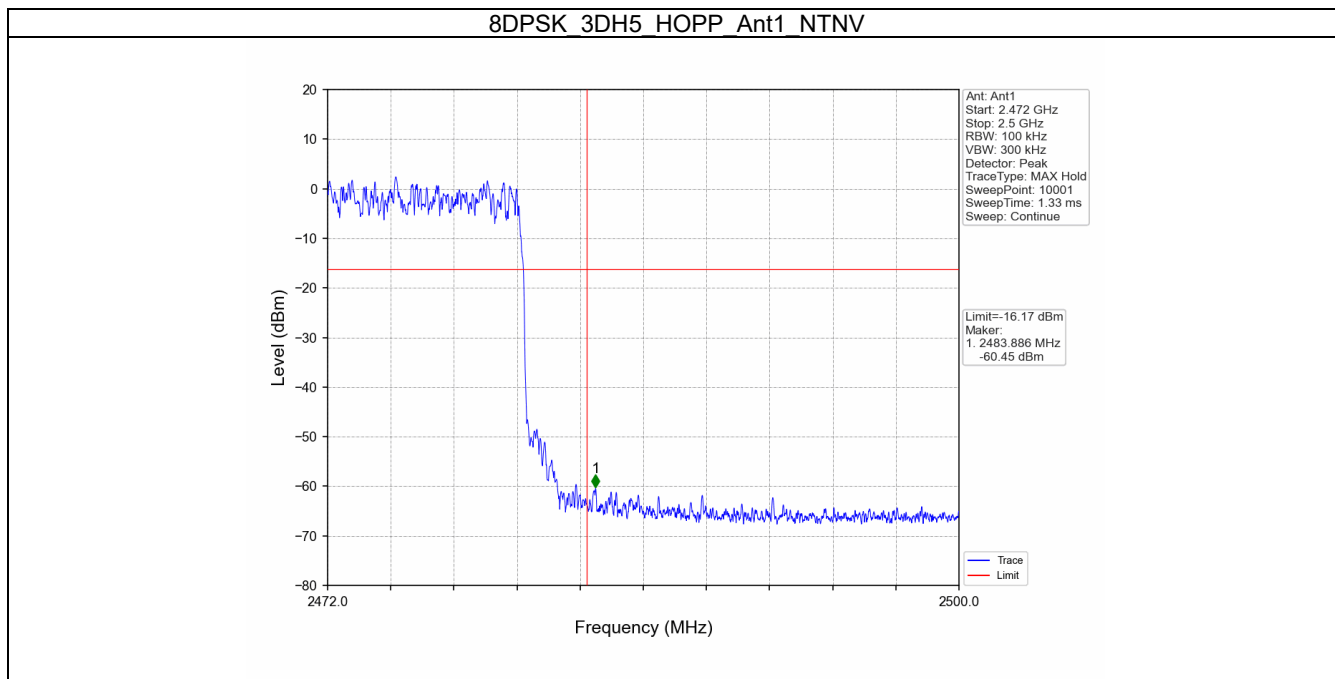


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