9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2108020989AT

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10 Appendix

1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.955	Pass
		2441	DH5	1	0.954	Pass
		2480	DH5	1	0.953	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.307	Pass
		2441	2DH5	1	1.308	Pass
		2480	2DH5	1	1.313	Pass
8DPSK	SISO	2402	3DH5	1	1.306	Pass
		2441	3DH5	1	1.305	Pass
		2480	3DH5	1	1.306	Pass

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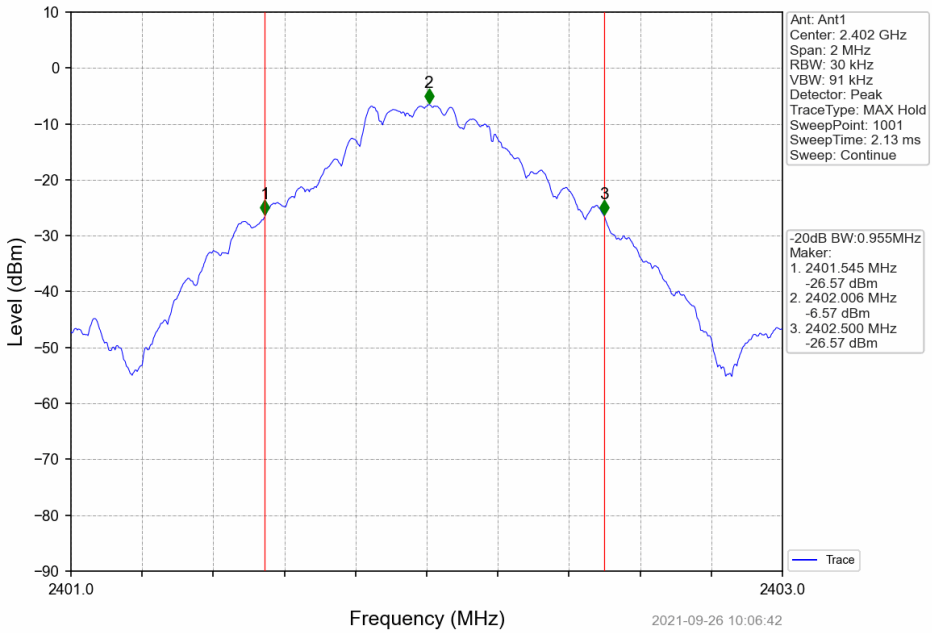
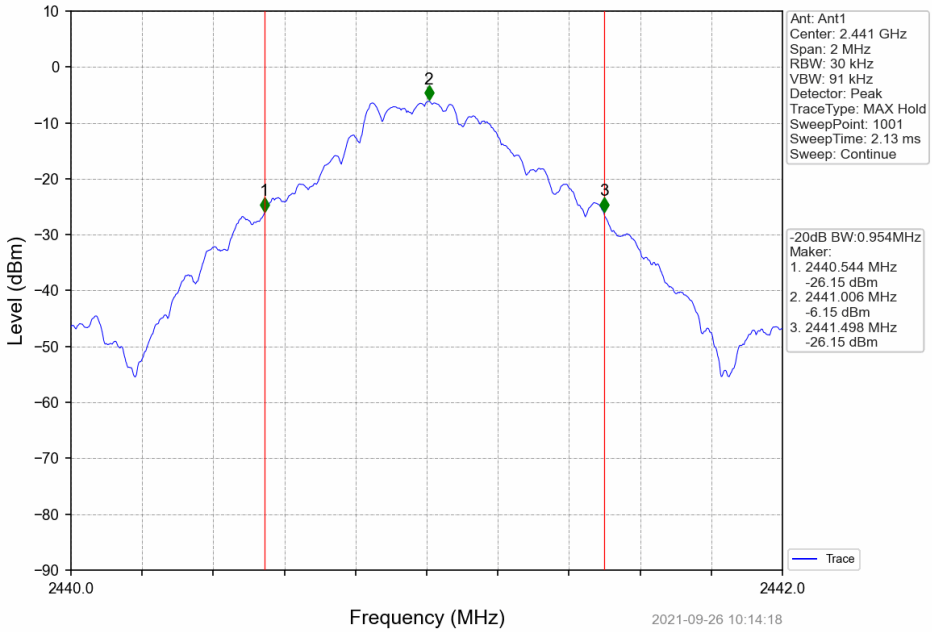
1.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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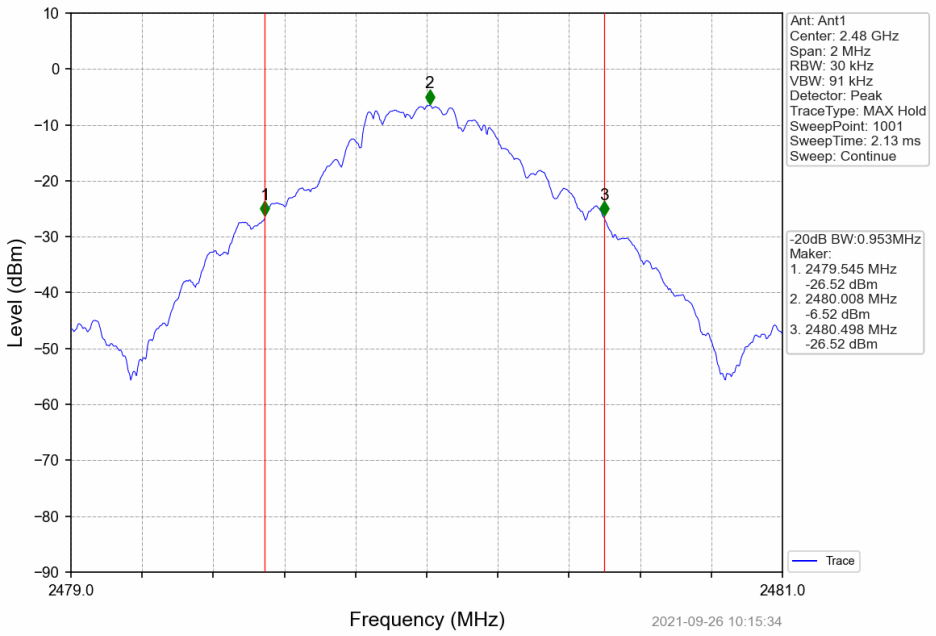
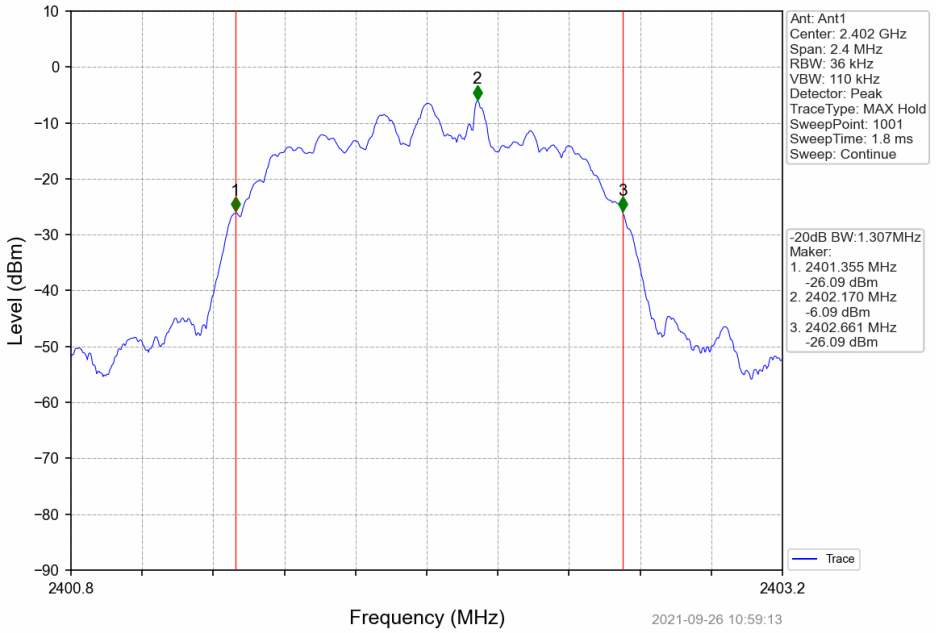
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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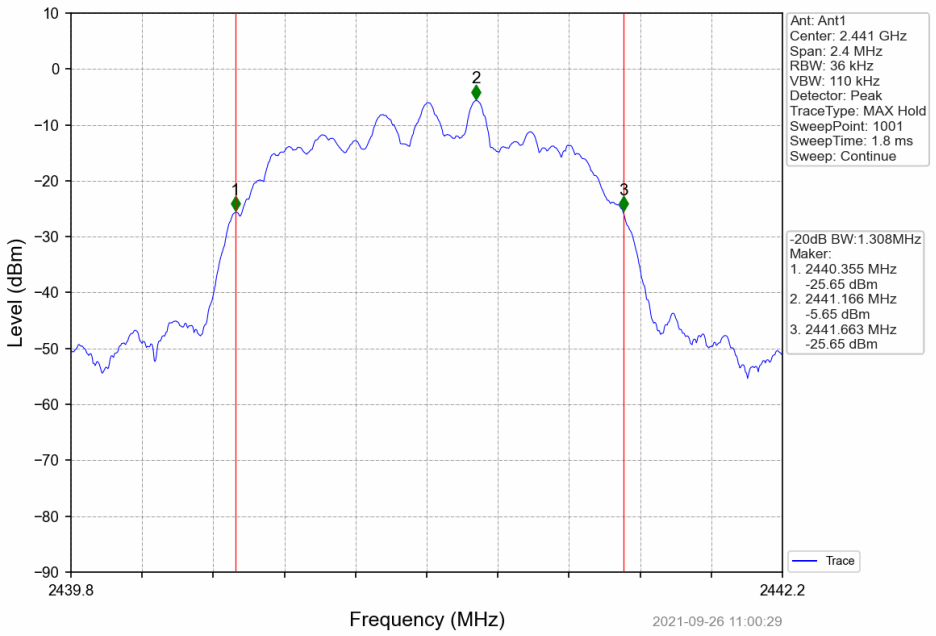
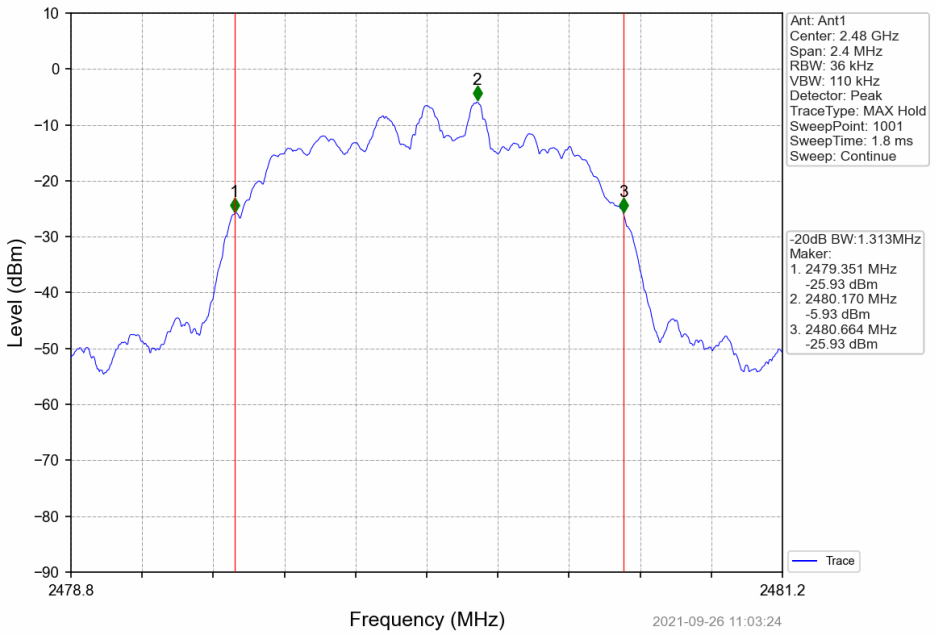
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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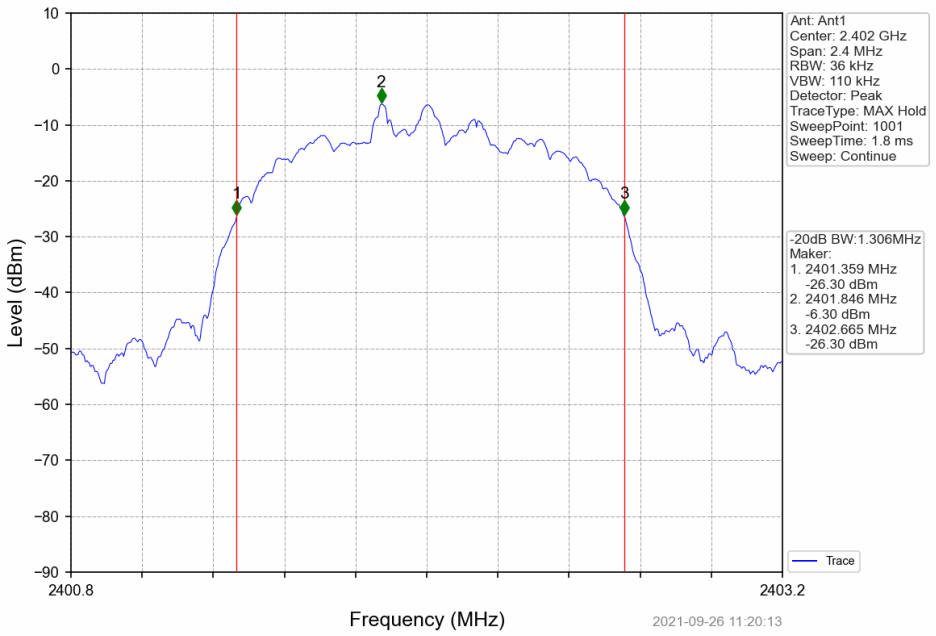
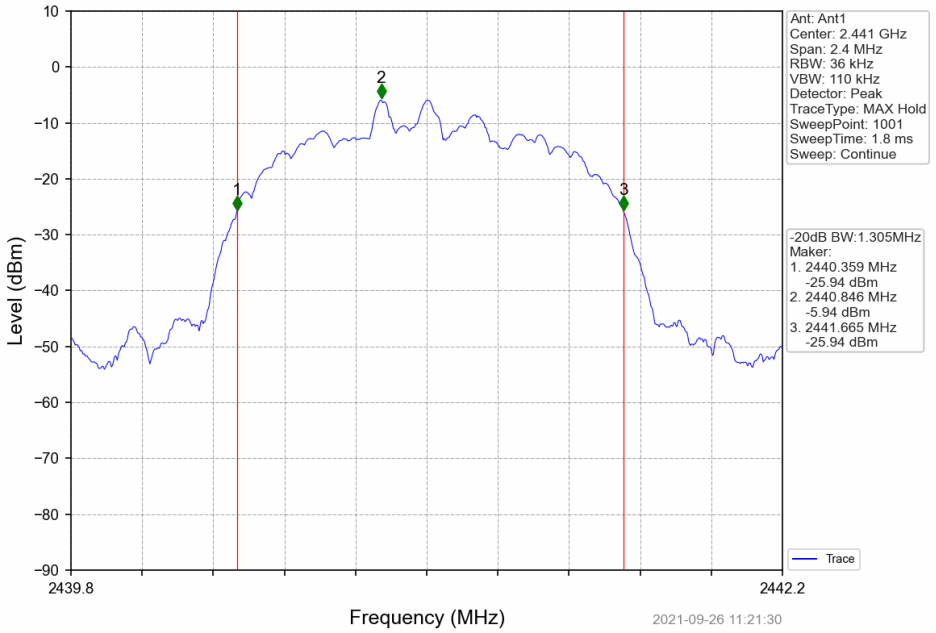
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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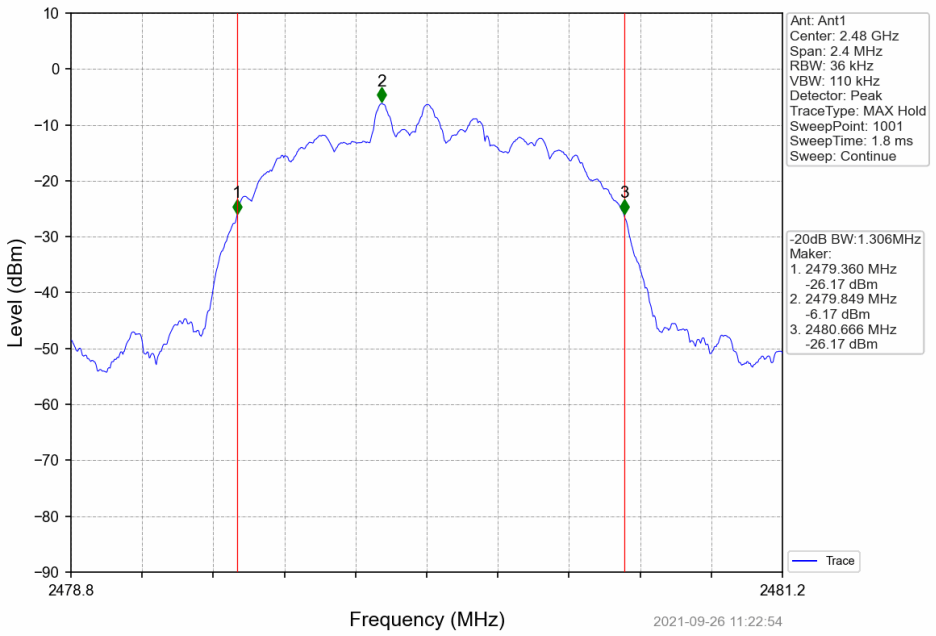
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	-4.06	<=30	Pass
		2441	DH5	-3.75	<=30	Pass
		2480	DH5	-4.06	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-3.44	<=20.97	Pass
		2441	2DH5	-3.12	<=20.97	Pass
		2480	2DH5	-3.37	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-3.07	<=20.97	Pass
		2441	3DH5	-2.70	<=20.97	Pass
		2480	3DH5	-3.01	<=20.97	Pass
Note1: Antenna Gain: Ant1: 0.00dBi;						

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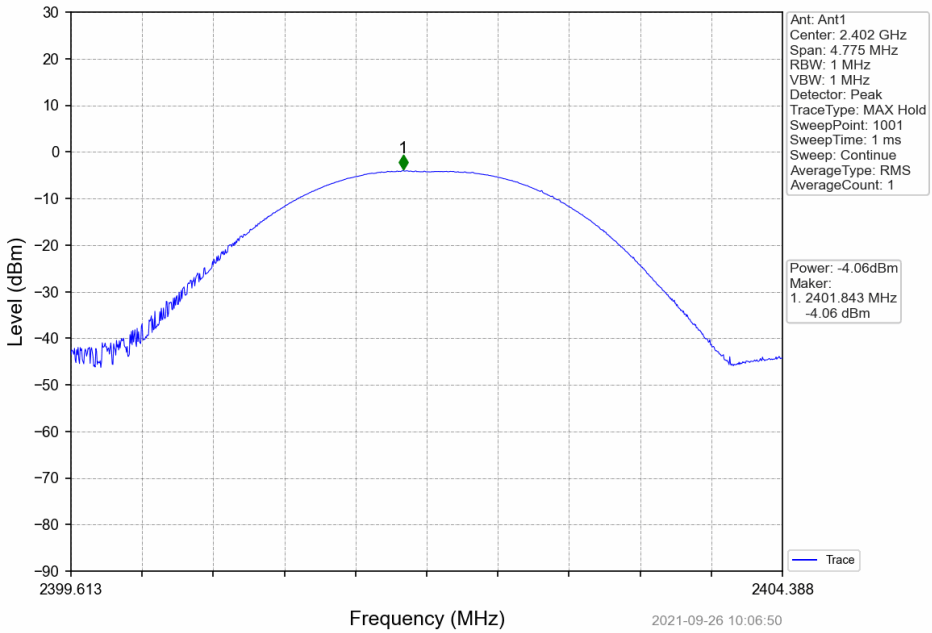
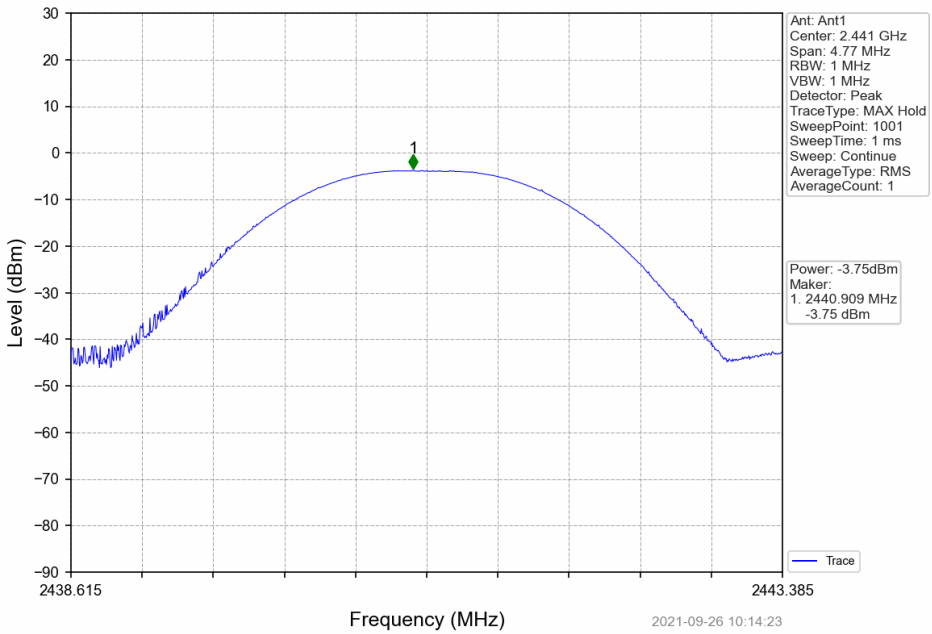
2.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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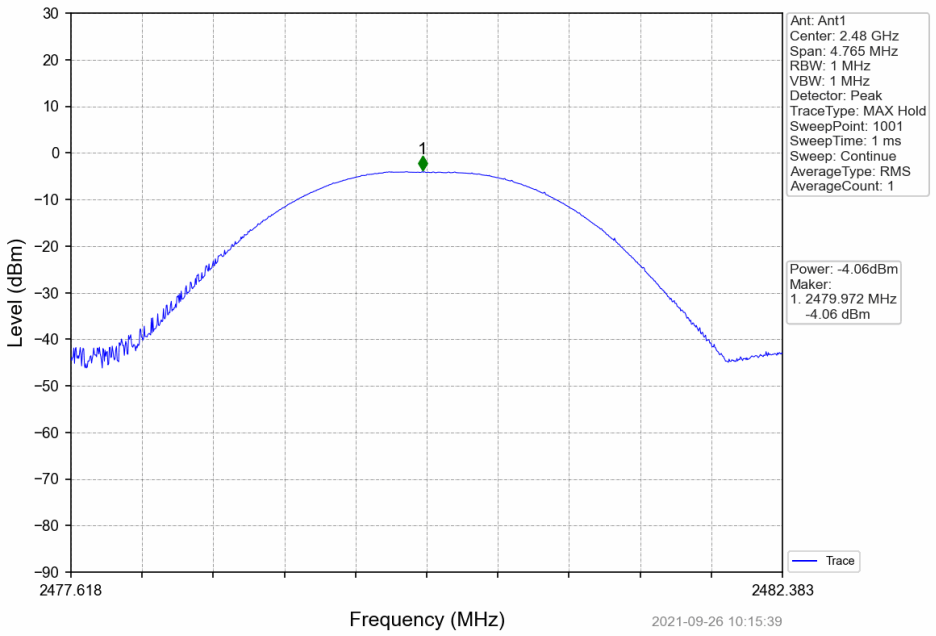
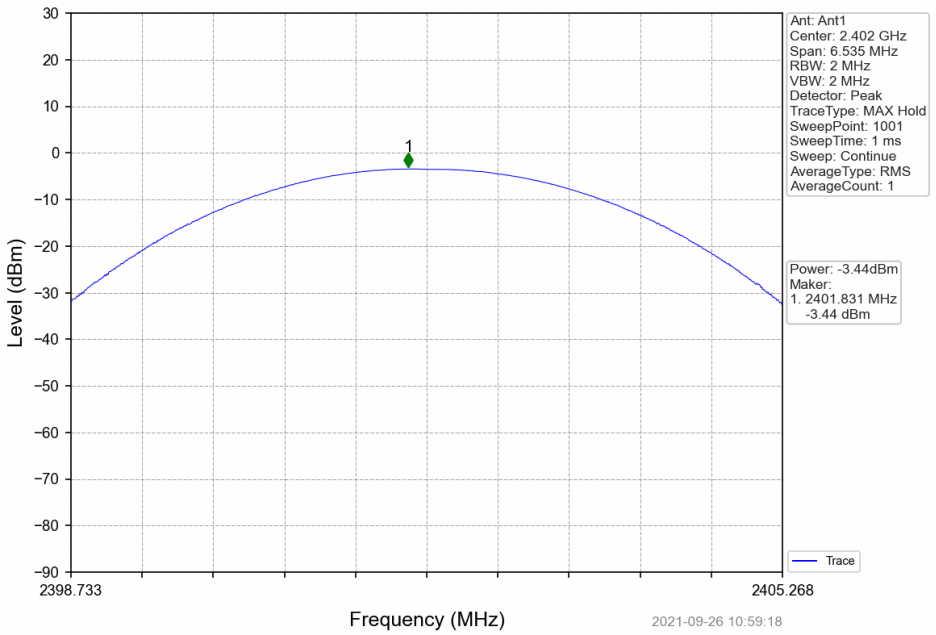
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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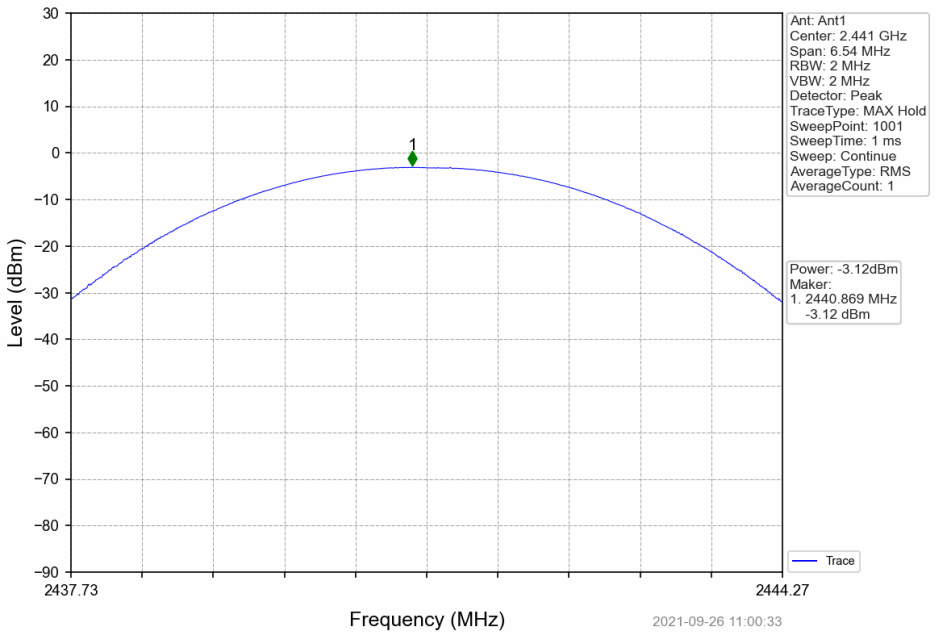
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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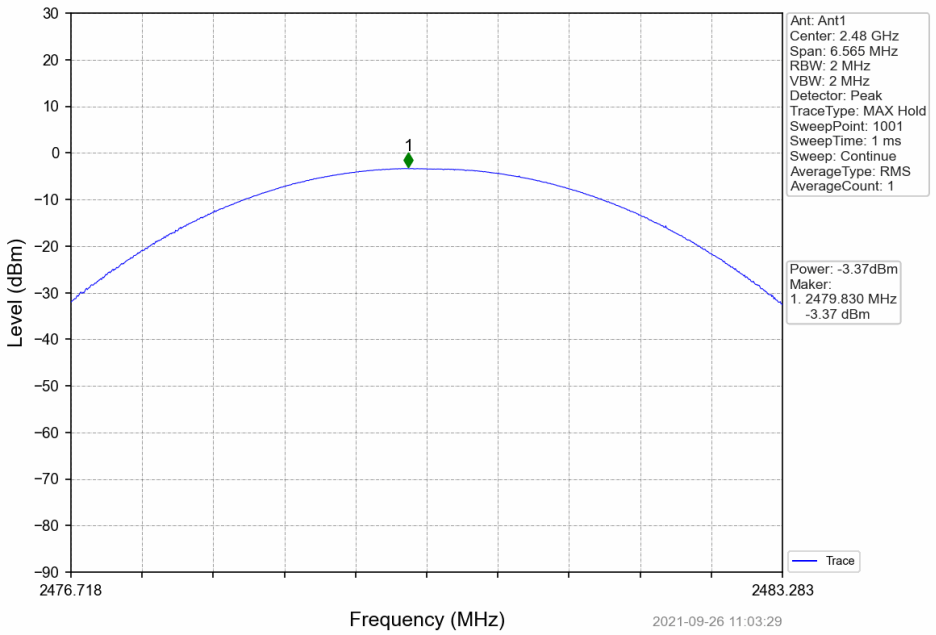

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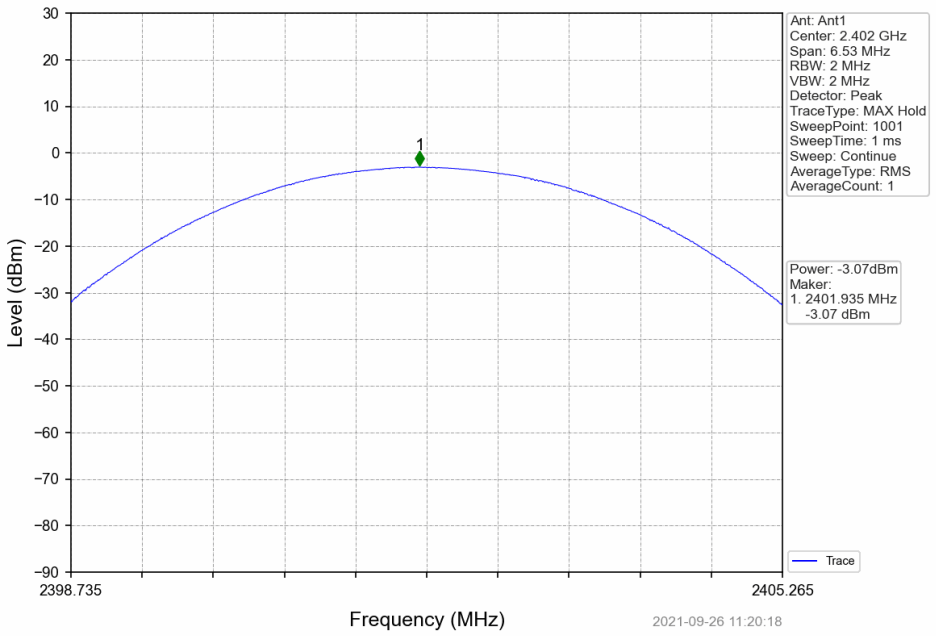
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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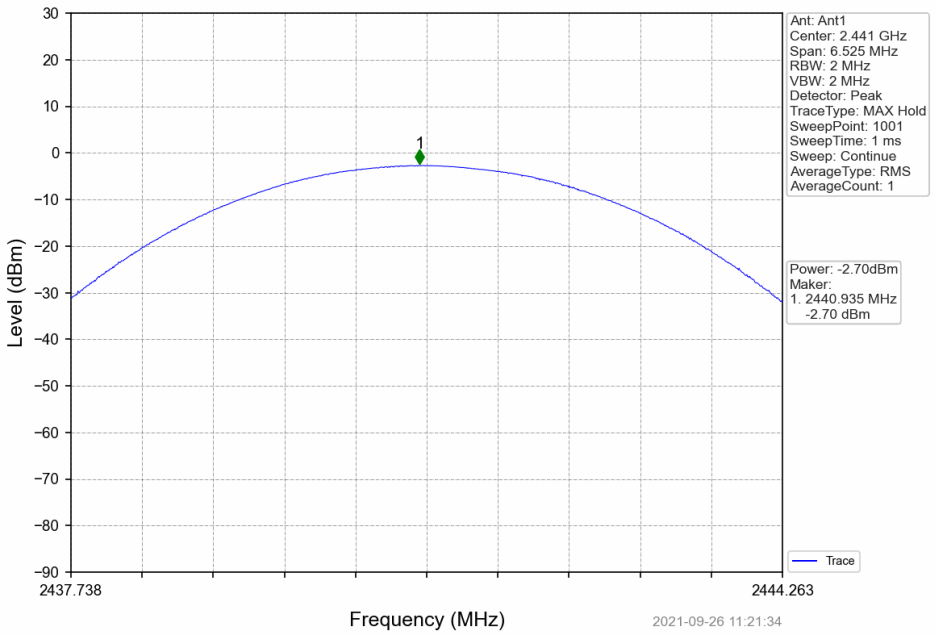

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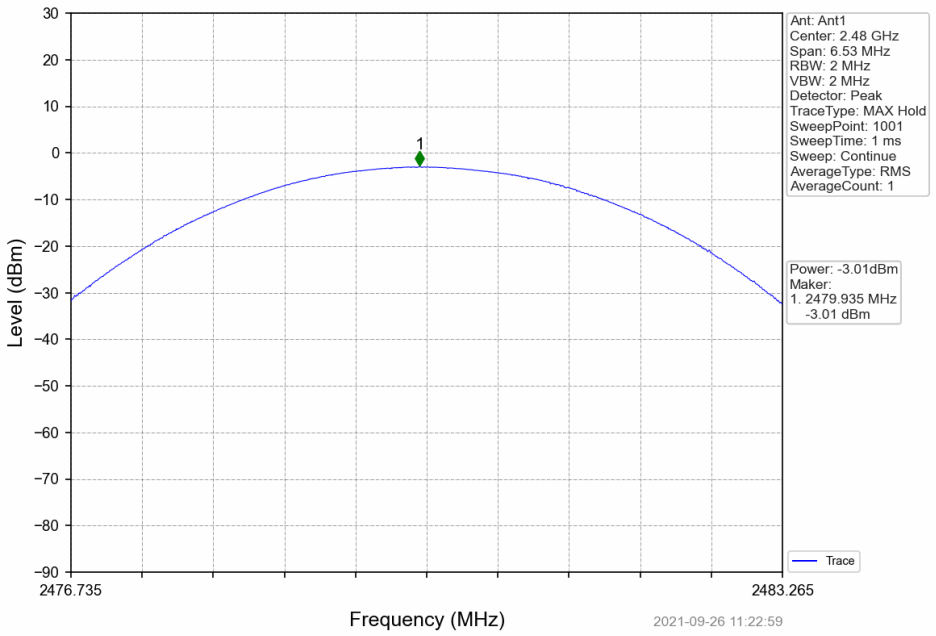
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1.008	0.955	>=0.955	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.017	1.313	>=0.875	Pass
8DPSK	SISO	HOPP	3DH5	0.997	1.306	>=0.871	Pass

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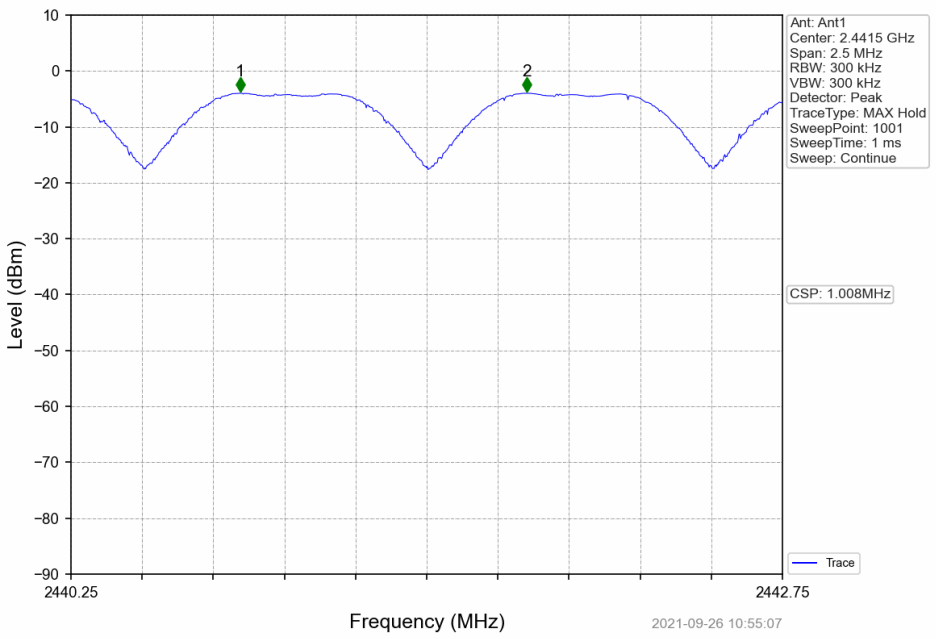
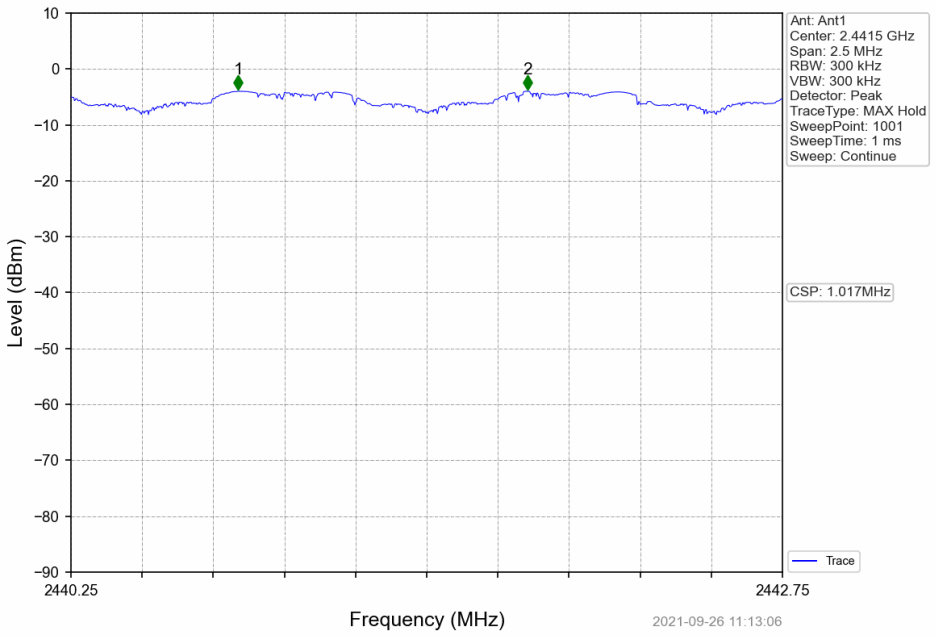
3.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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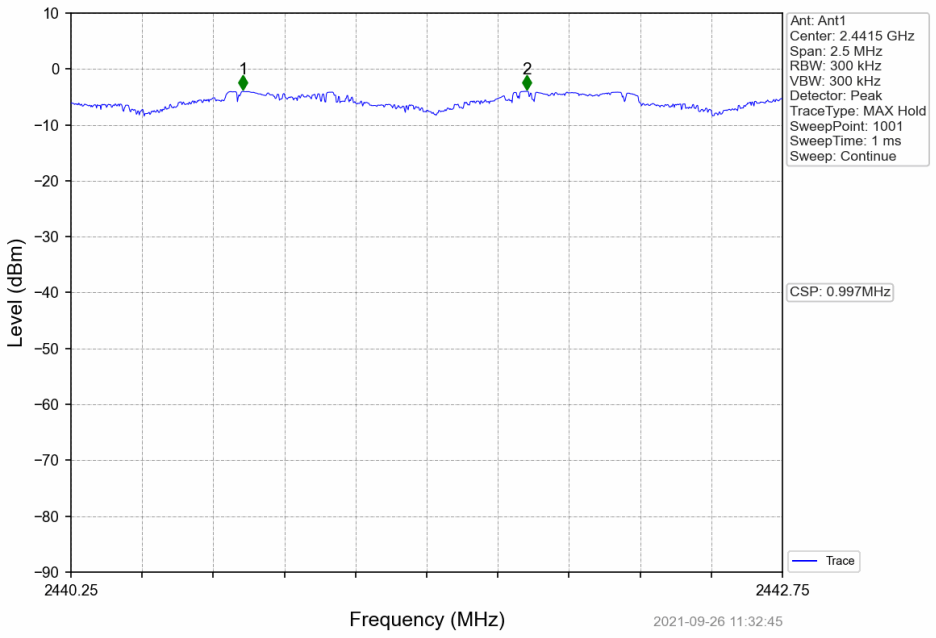

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4. Number of Hopping Frequencies

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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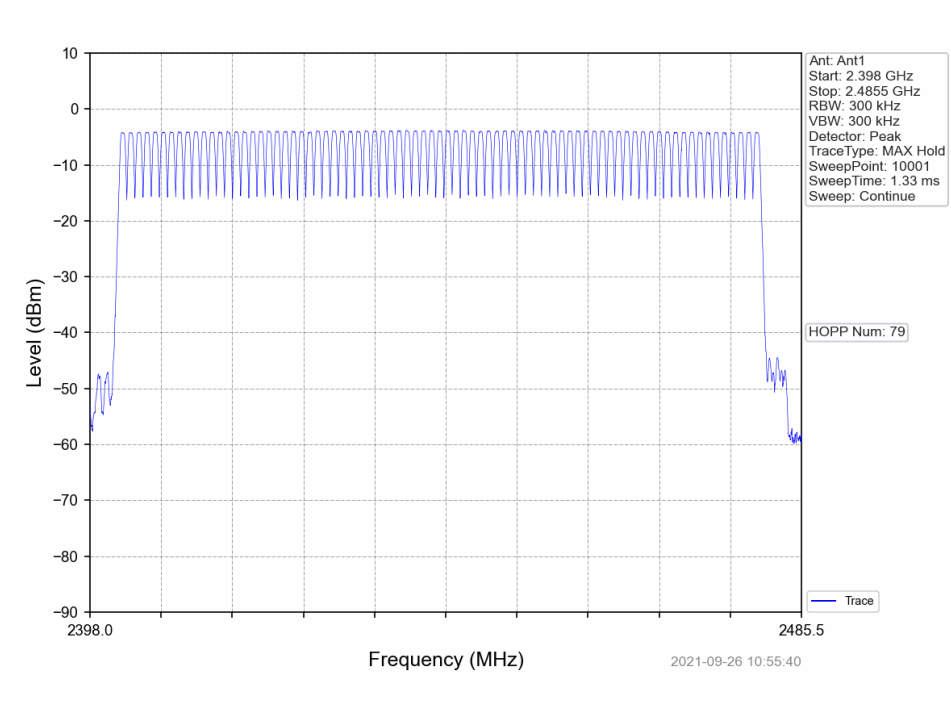
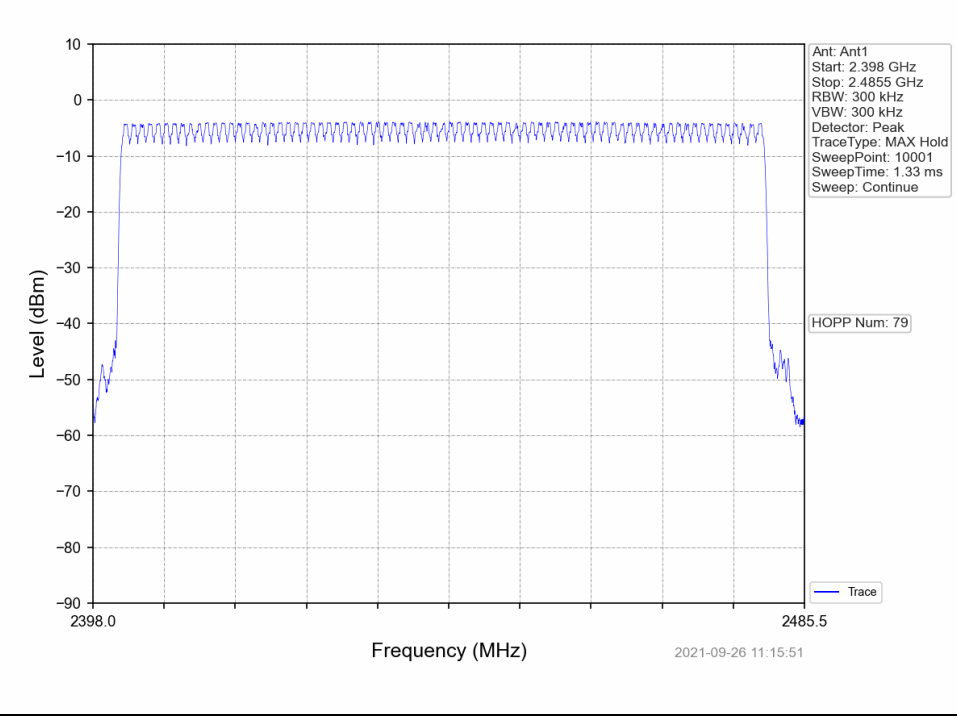
4.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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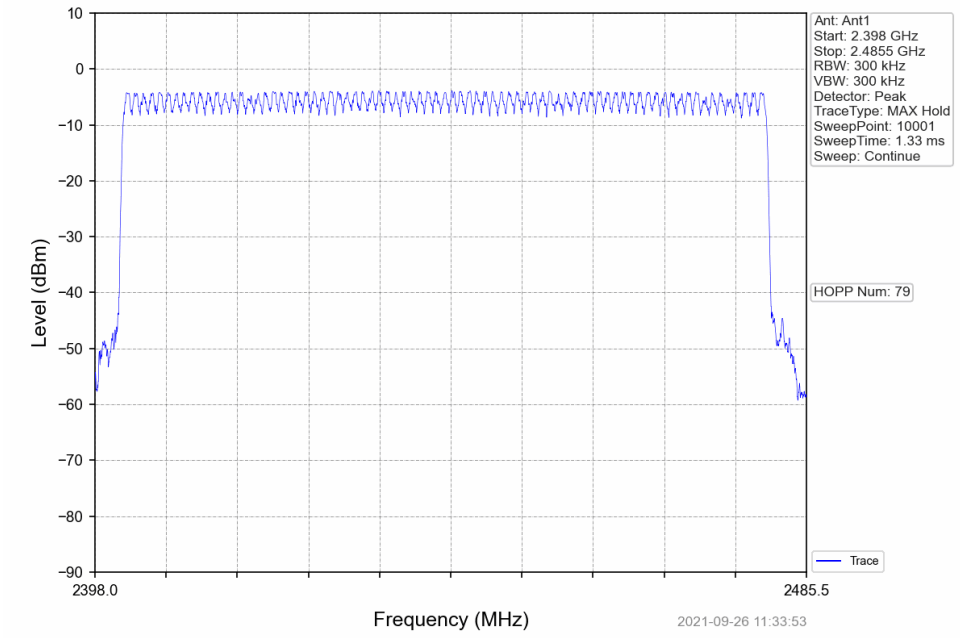
8DPSK_3DH5_HOPP_Ant1_NTNV



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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	0.378	31.600	320	120.960	<=400	Pass
			DH3	1.632	31.600	161	262.752	<=400	Pass
			DH5	2.880	31.600	106	305.280	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.386	31.600	320	123.520	<=400	Pass
			2DH3	1.638	31.600	161	263.718	<=400	Pass
			2DH5	2.886	31.600	99	285.714	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.386	31.600	320	123.520	<=400	Pass
			3DH3	1.638	31.600	162	265.356	<=400	Pass
			3DH5	2.890	31.600	100	289.000	<=400	Pass

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5.1.2 Test Graph

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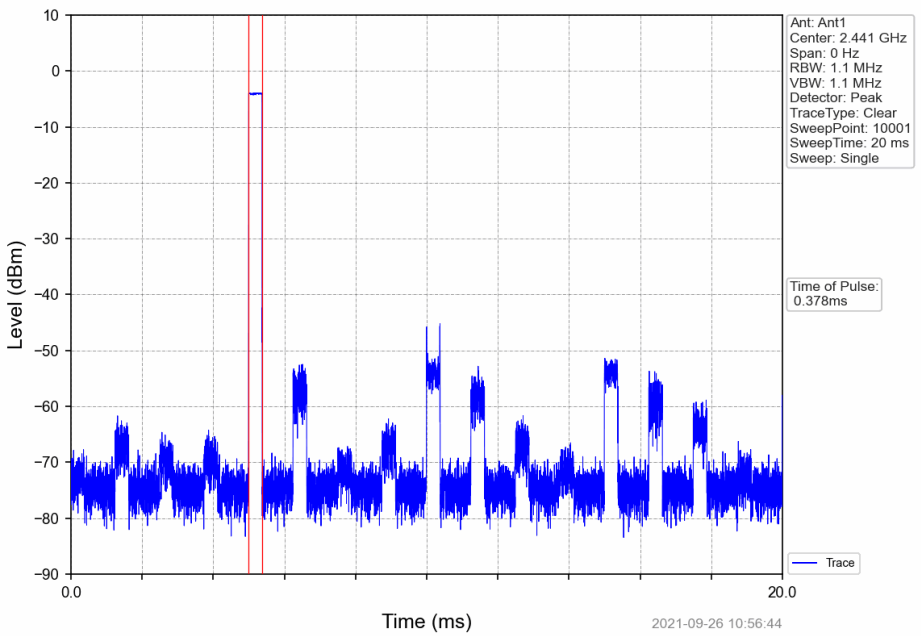

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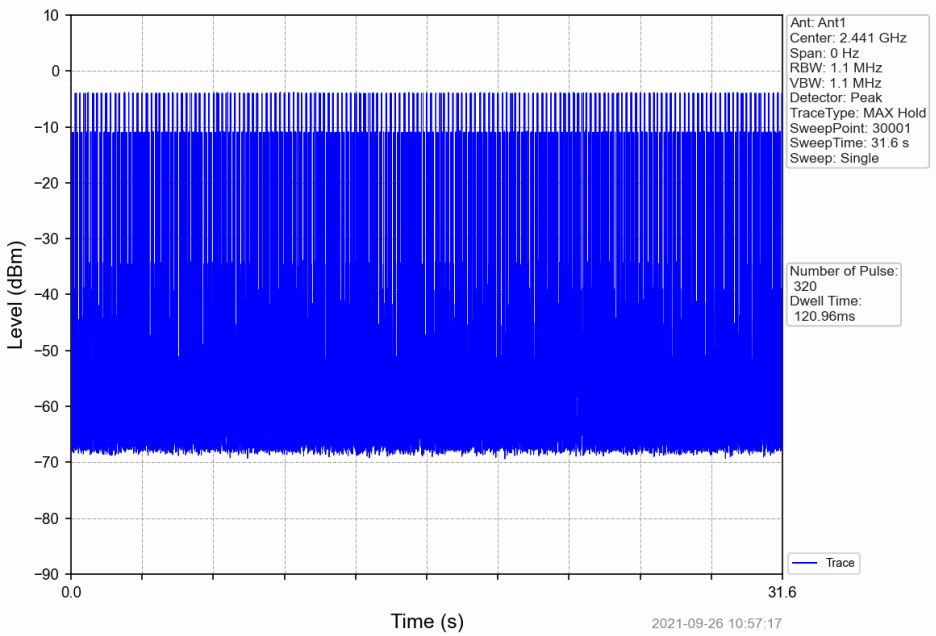

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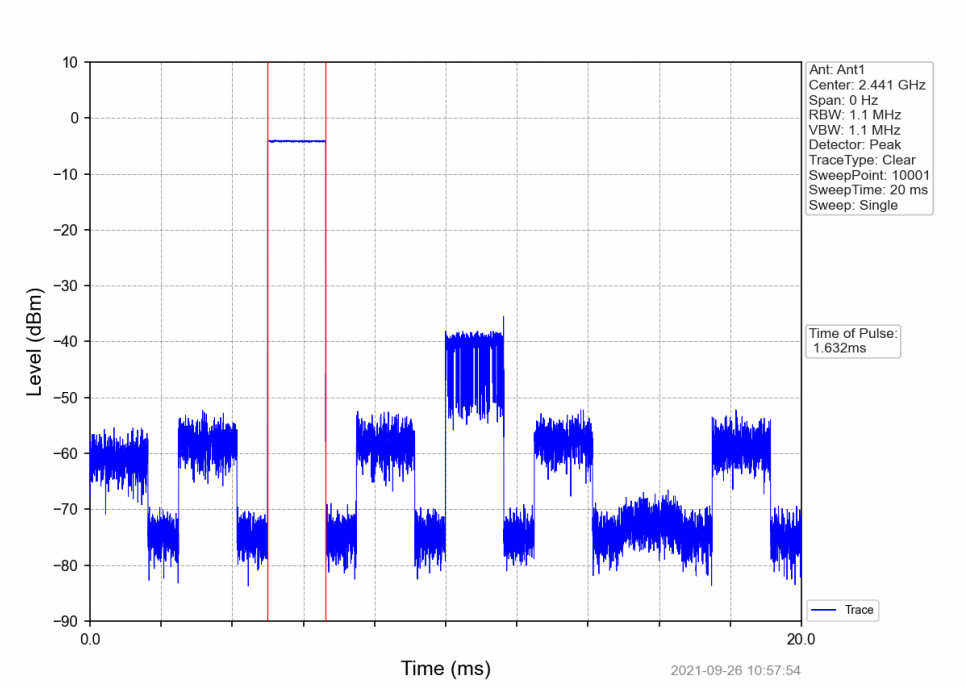
GFSK_DH3_HOPP_Ant1_NTNV



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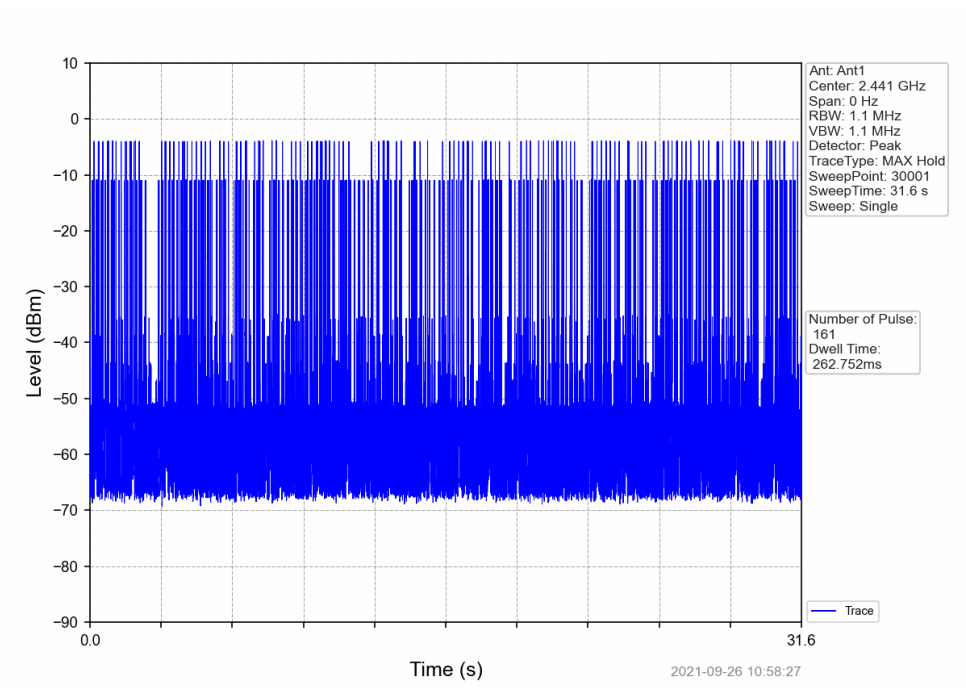

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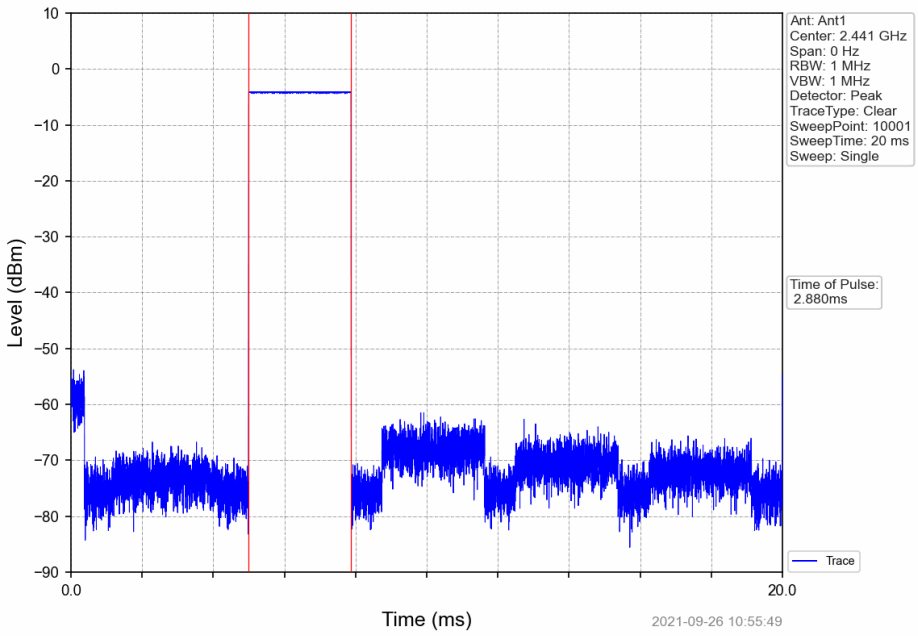

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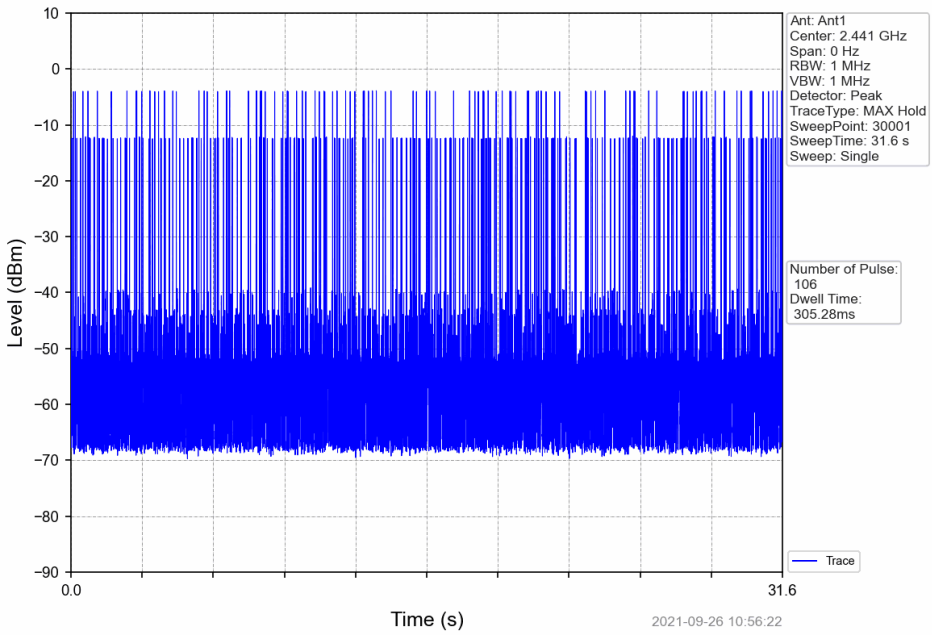

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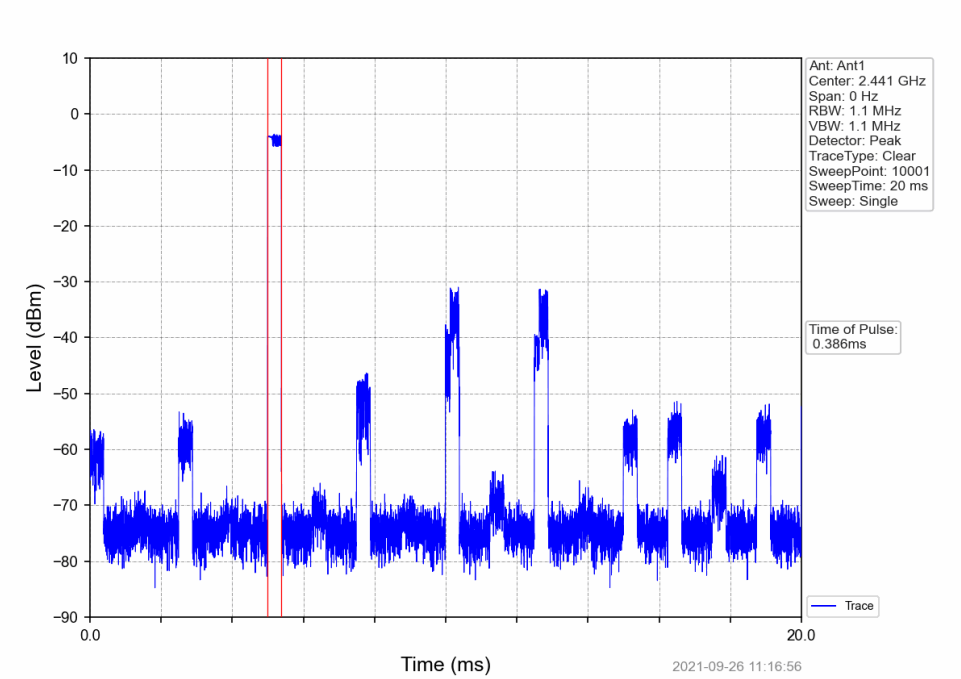
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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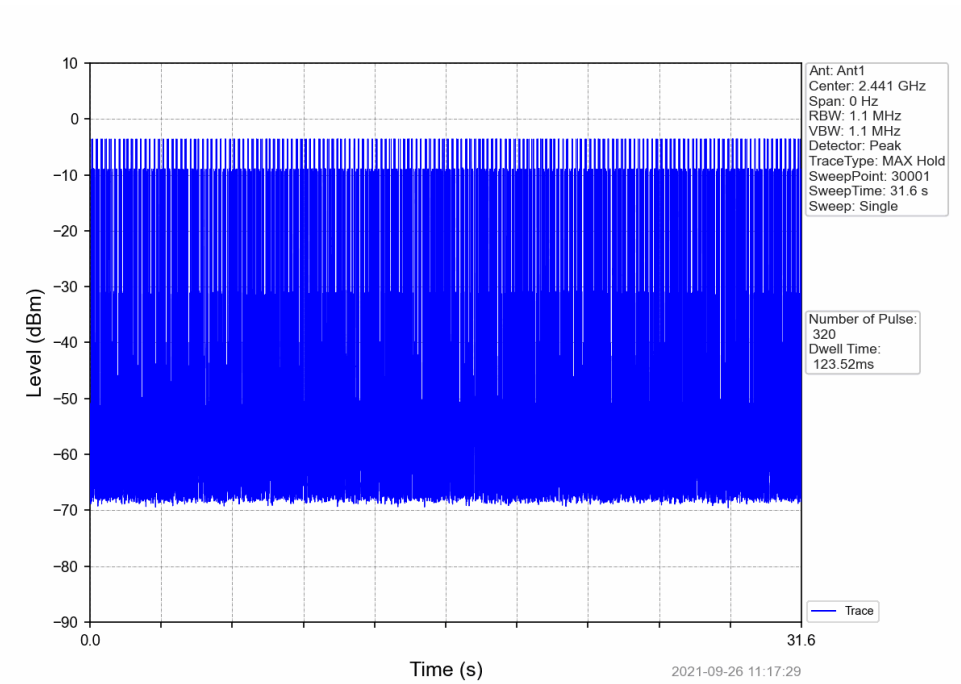

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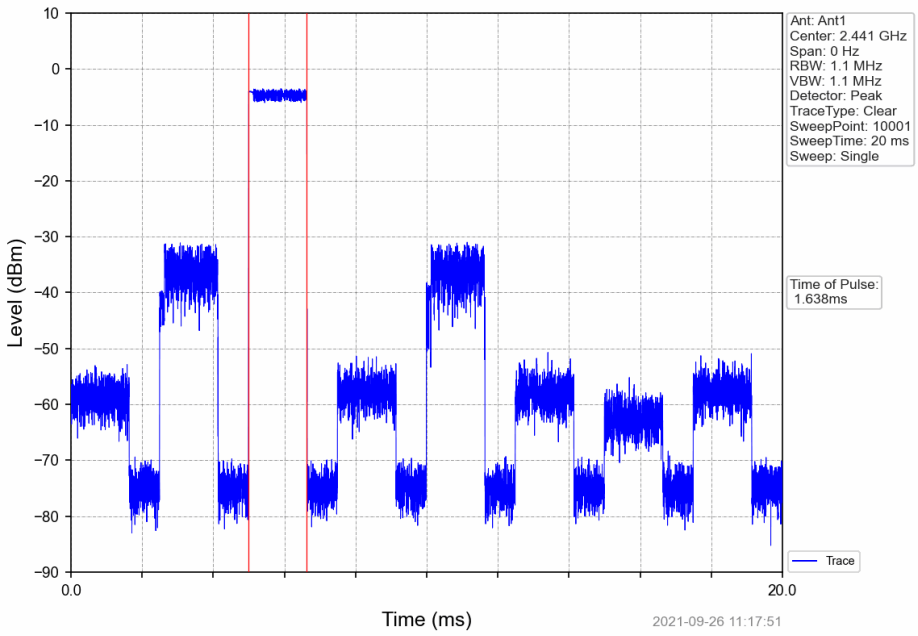
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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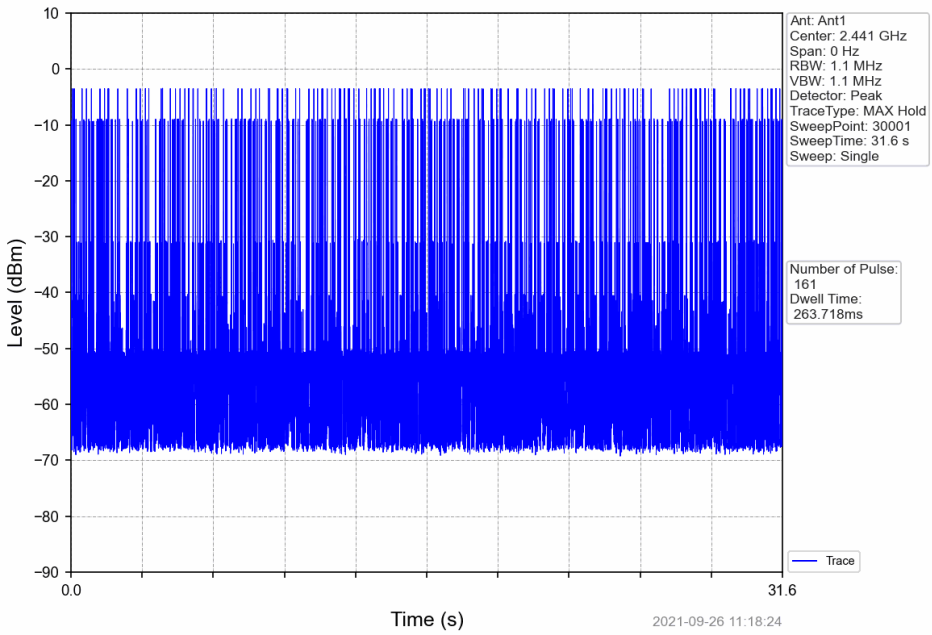

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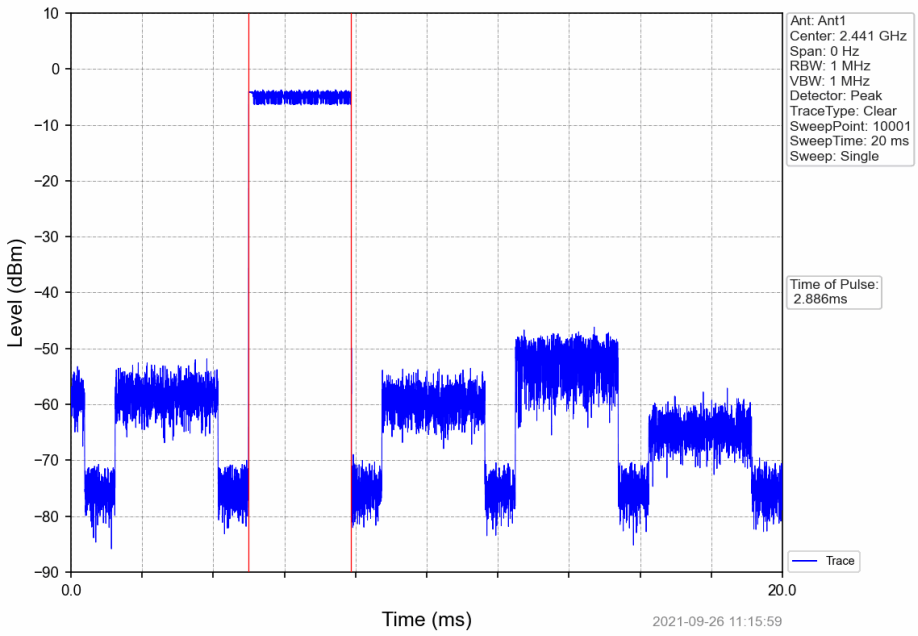

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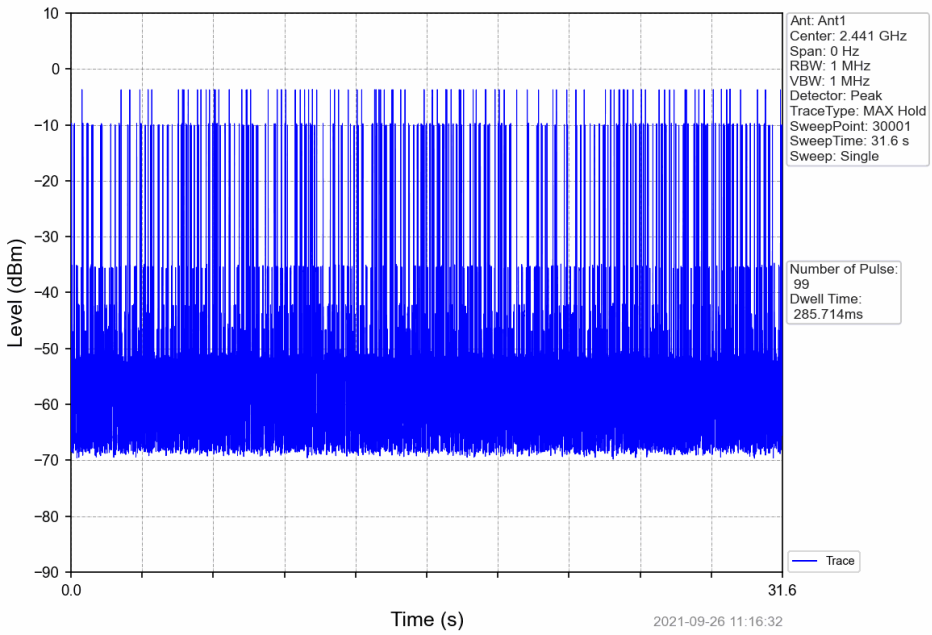

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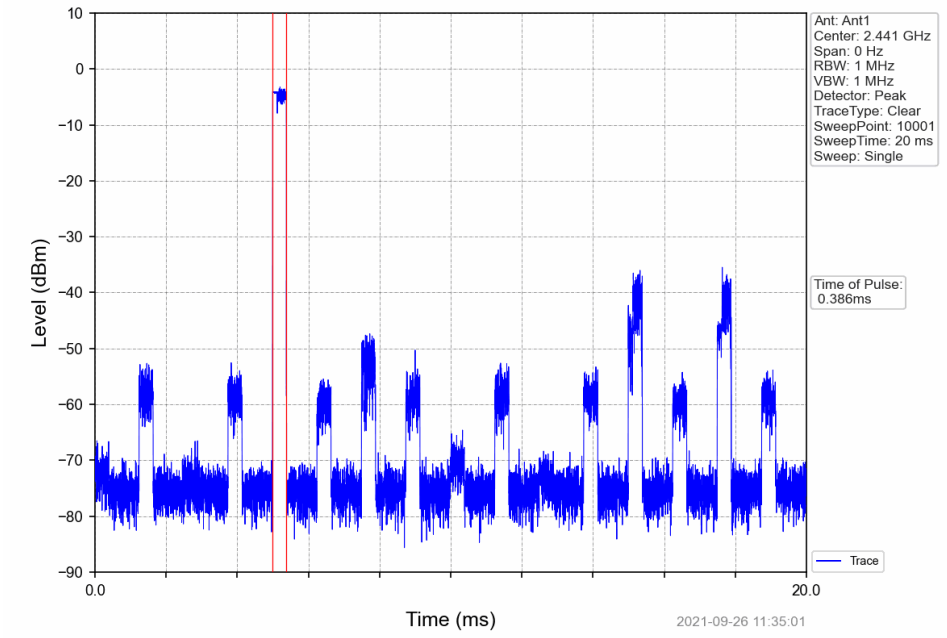

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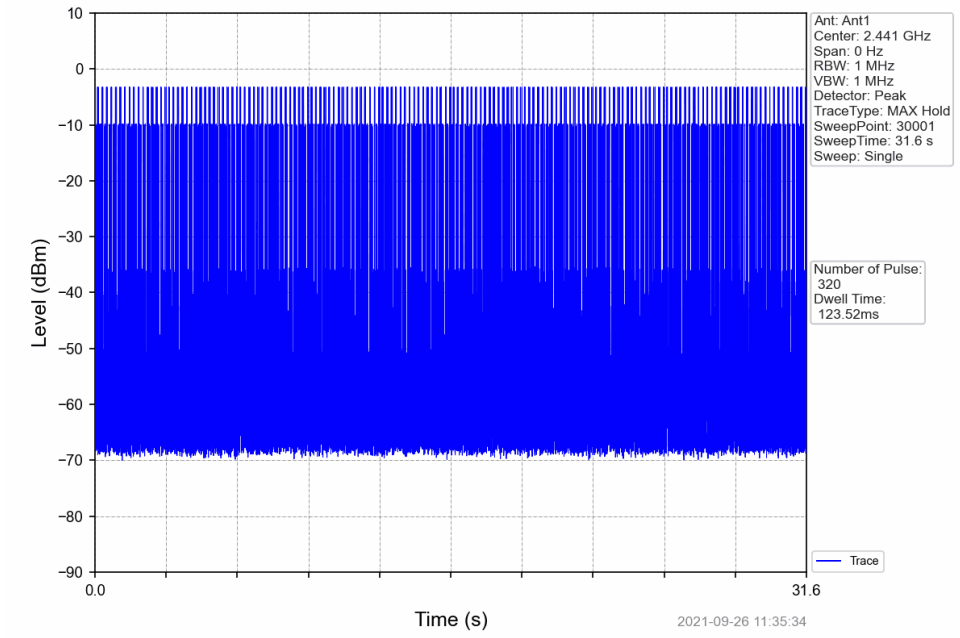

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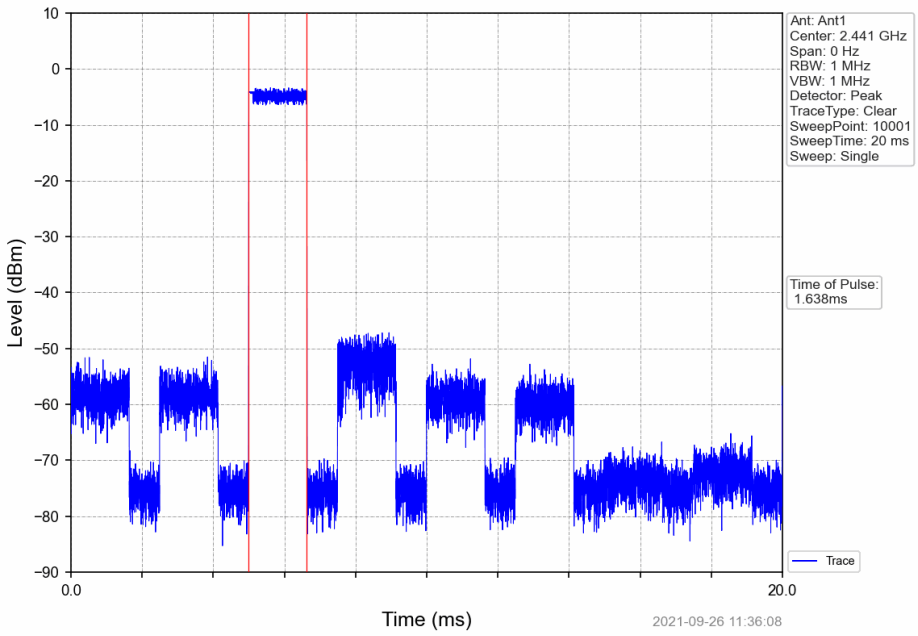
8DPSK_3DH3_HOPP_Ant1_NTNV



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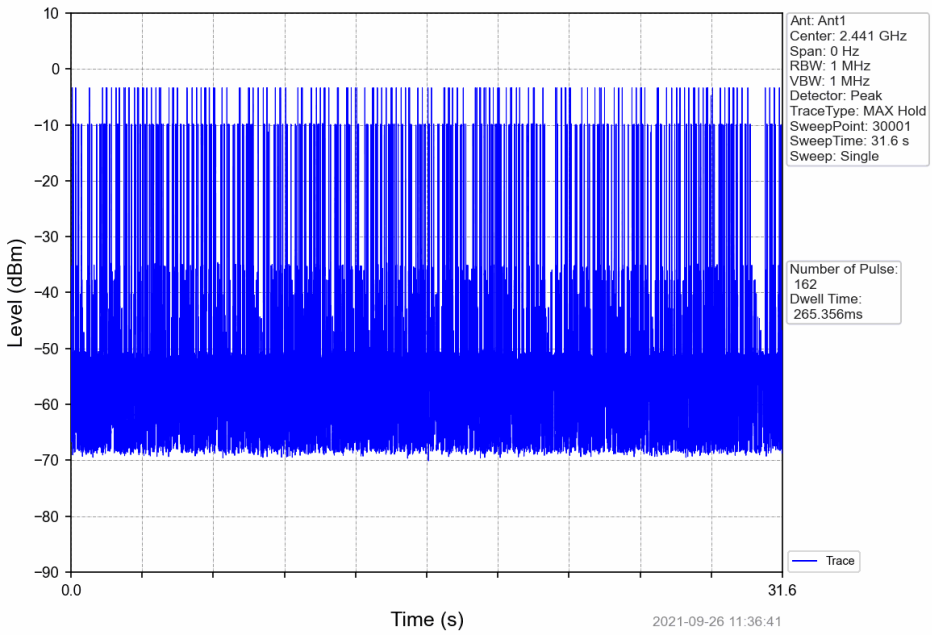

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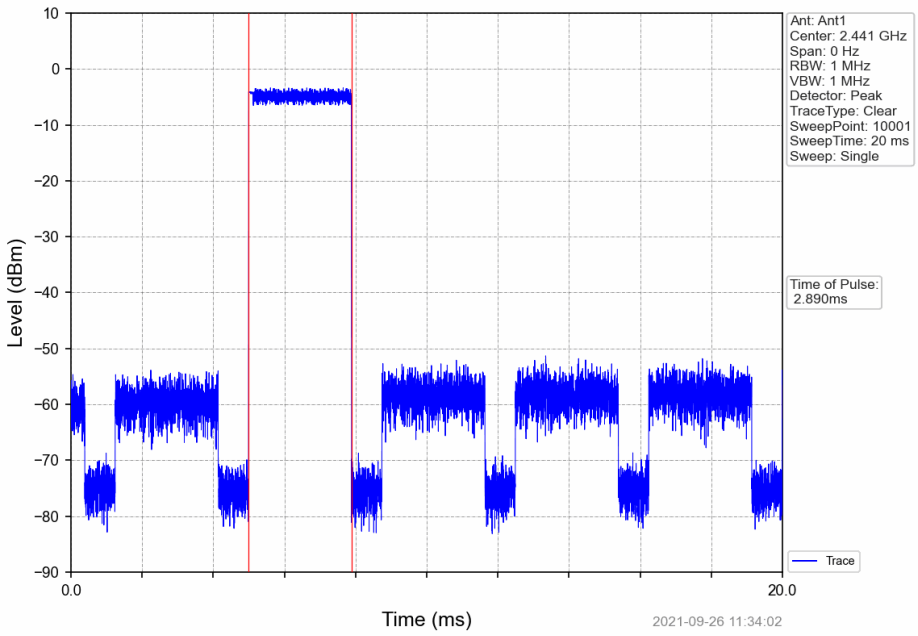

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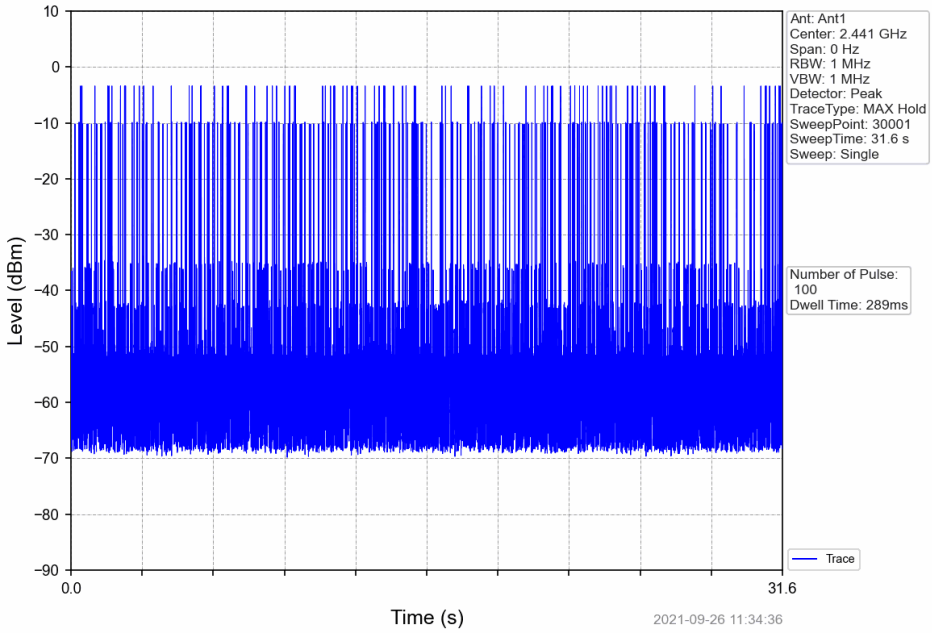

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6. Unwanted Emissions In Non-restricted Frequency Bands

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	-4.34
		2441	DH5	1	-4.03
		2480	DH5	1	-4.30
Pi/4DQPSK	SISO	2402	2DH5	1	-4.61
		2441	2DH5	1	-4.32
		2480	2DH5	1	-4.47
8DPSK	SISO	2402	3DH5	1	-4.52
		2441	3DH5	1	-4.08
		2480	3DH5	1	-4.37
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.					

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6.1.2 Test Graph

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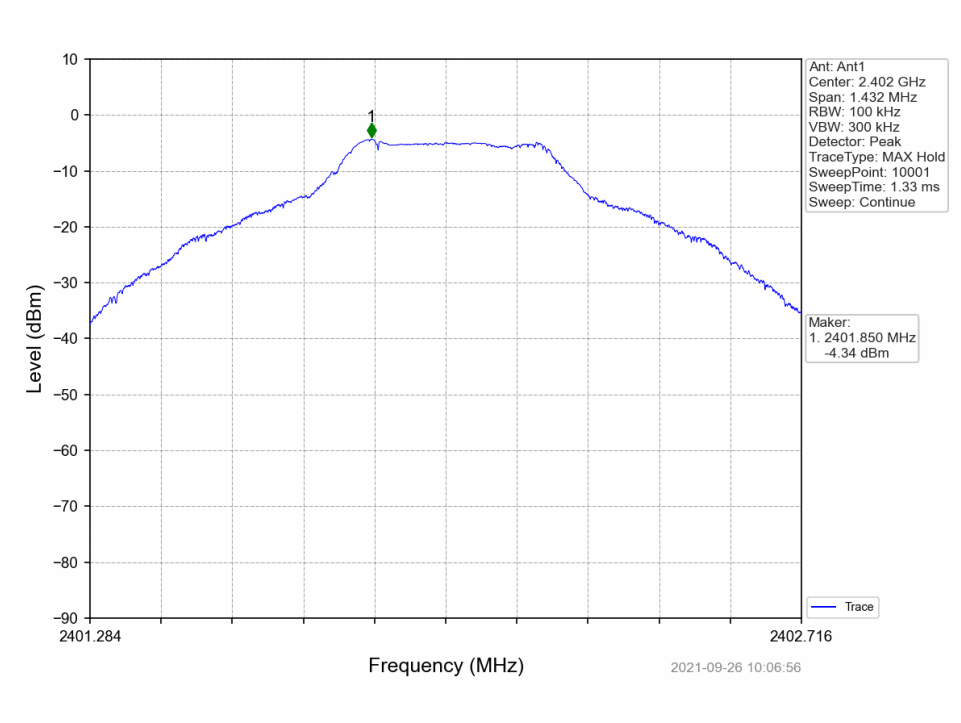

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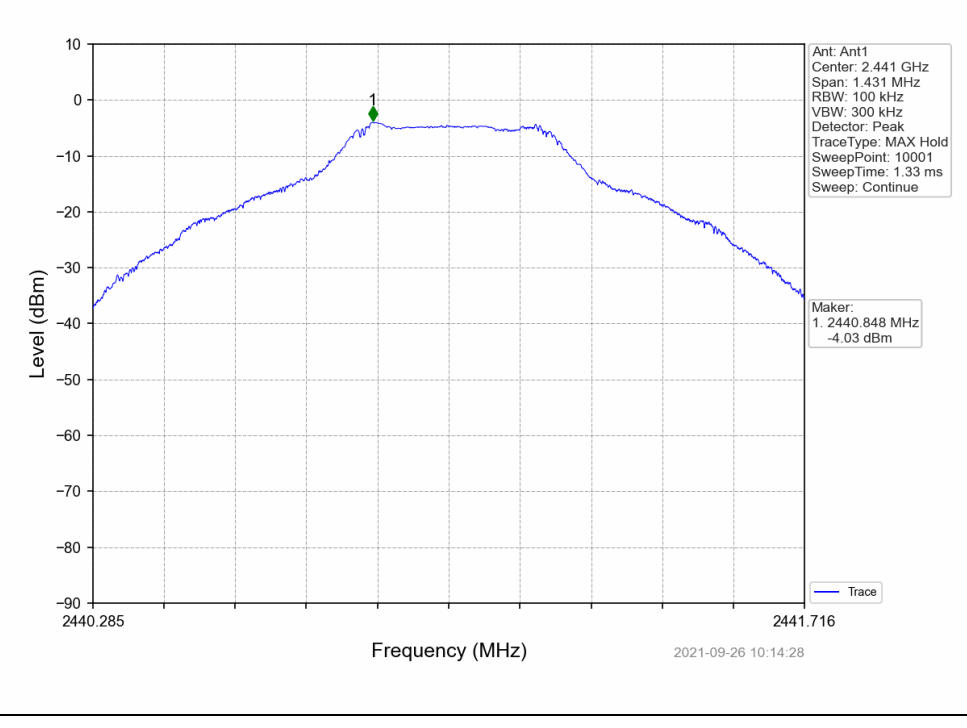

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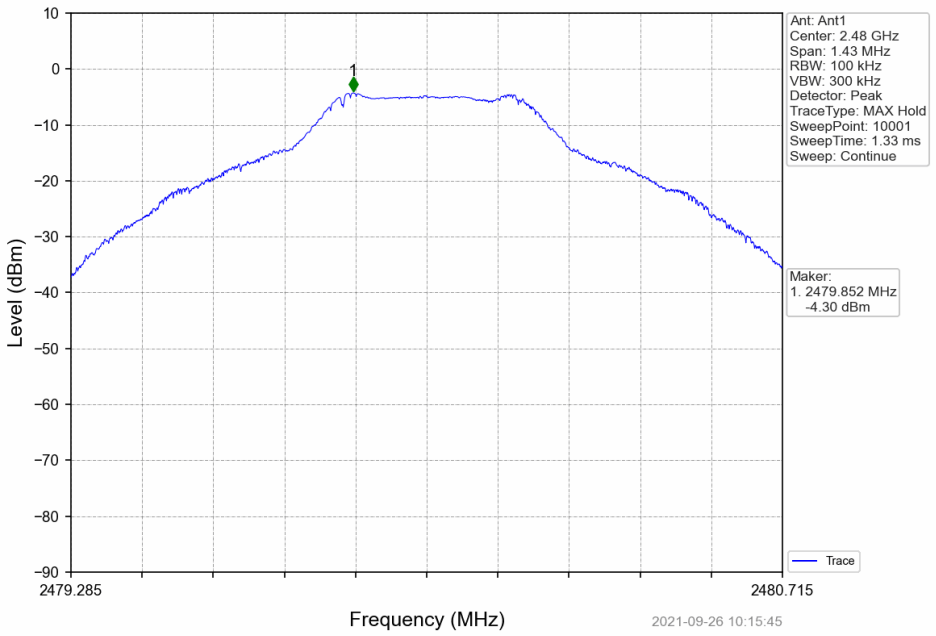
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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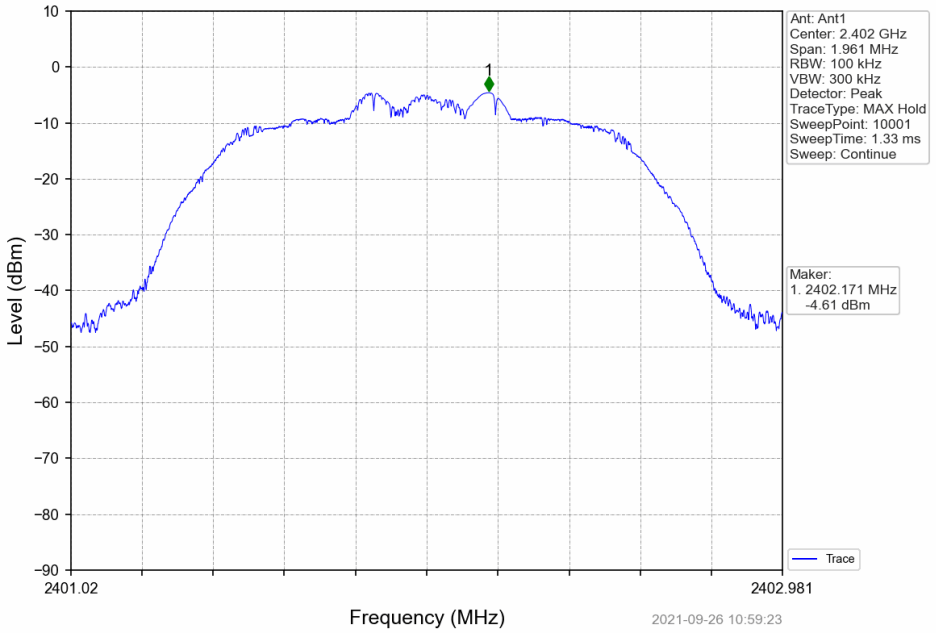

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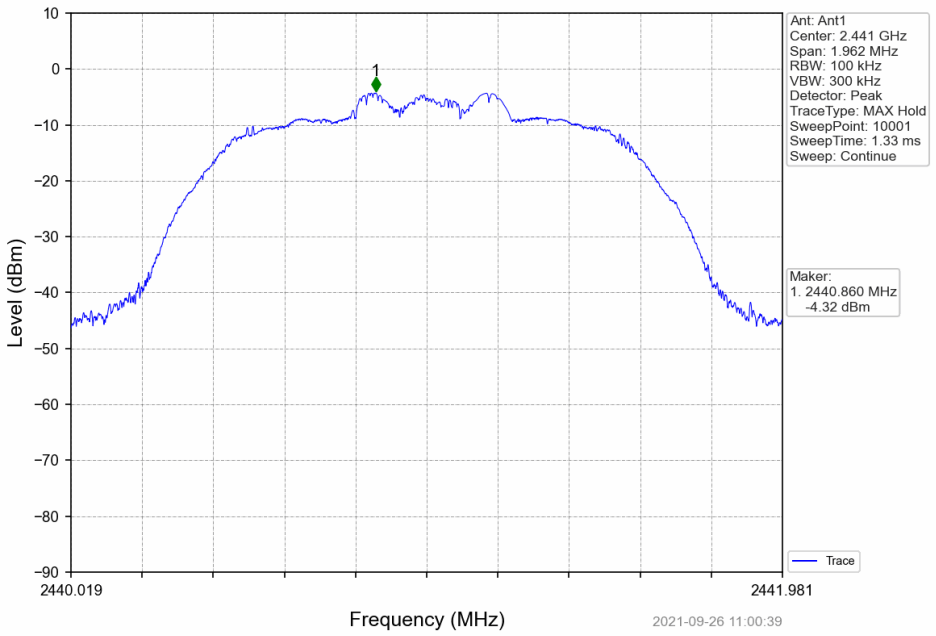

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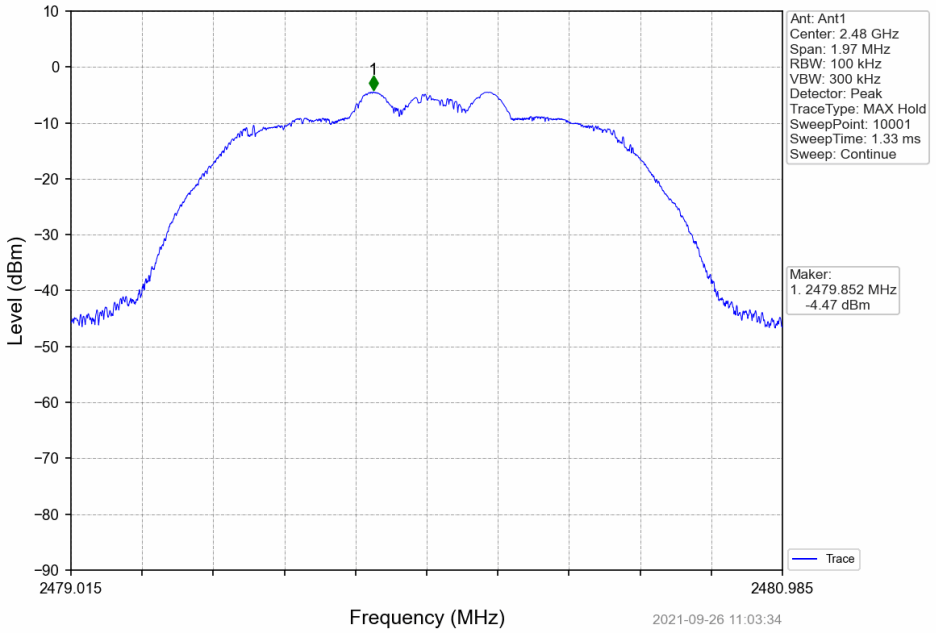

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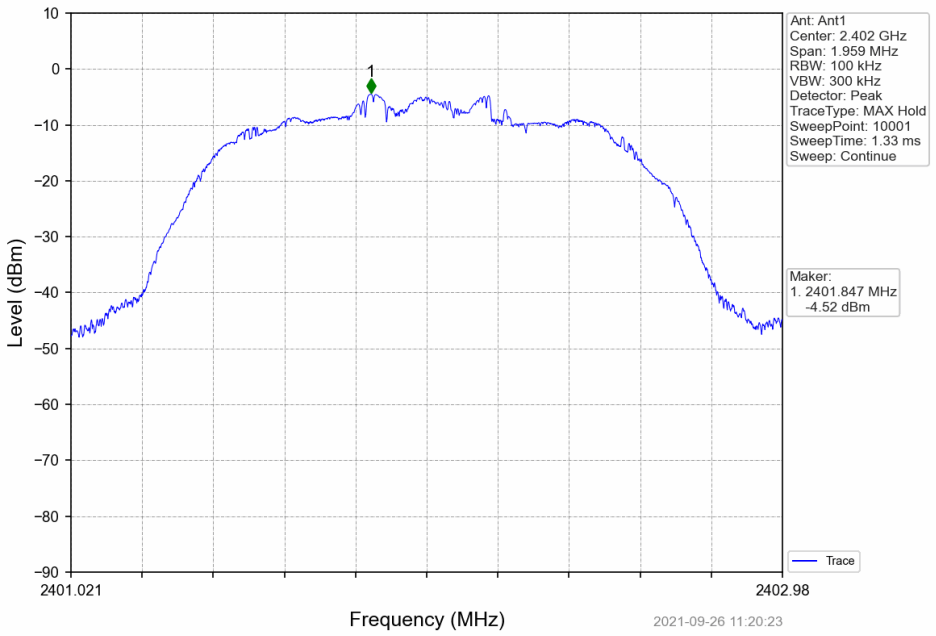
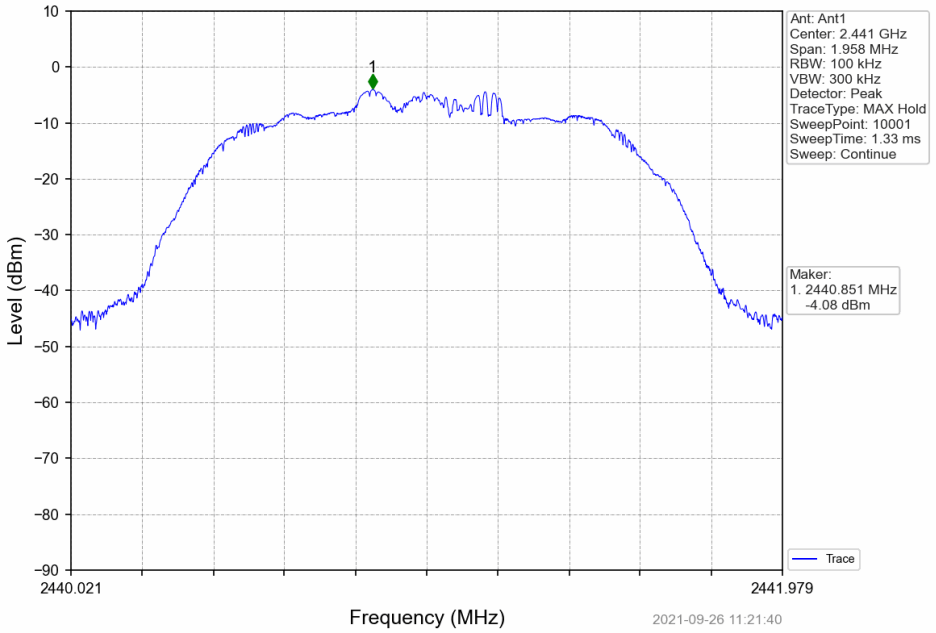


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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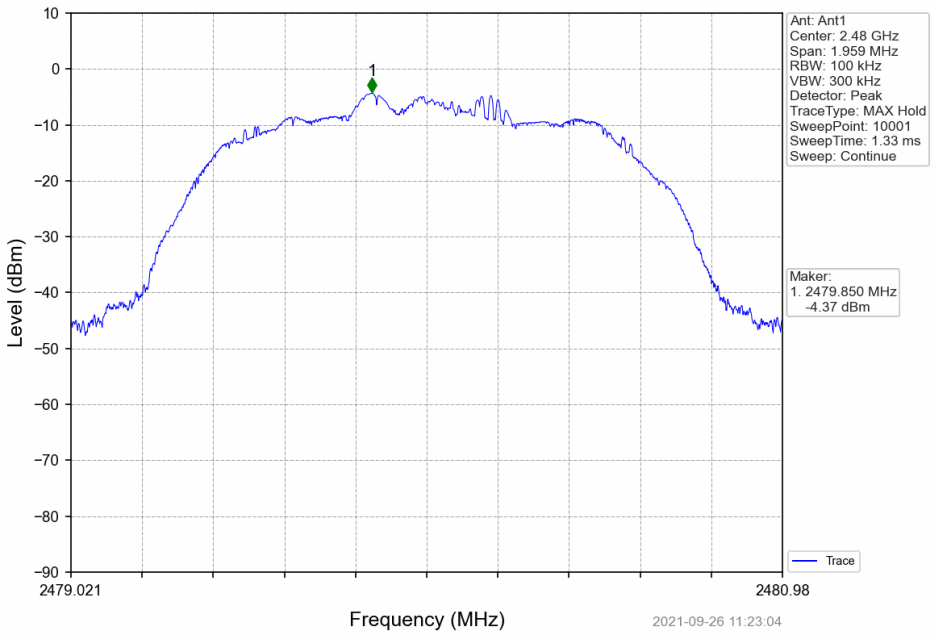
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	-4.03	-24.03	Pass
		2441	DH5	1	-4.03	-24.03	Pass
		2480	DH5	1	-4.03	-24.03	Pass
		HOPP	DH5	1	-4.03	-24.03	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-4.32	-24.32	Pass
		2441	2DH5	1	-4.32	-24.32	Pass
		2480	2DH5	1	-4.32	-24.32	Pass
		HOPP	2DH5	1	-4.32	-24.32	Pass
8DPSK	SISO	2402	3DH5	1	-4.08	-24.08	Pass
		2441	3DH5	1	-4.08	-24.08	Pass
		2480	3DH5	1	-4.08	-24.08	Pass
		HOPP	3DH5	1	-4.08	-24.08	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.							

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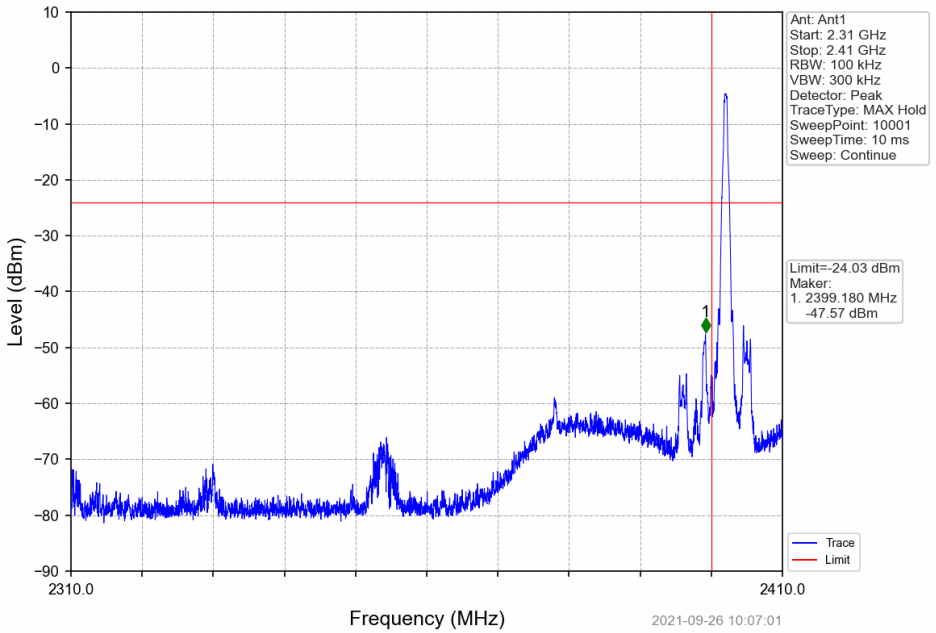
6.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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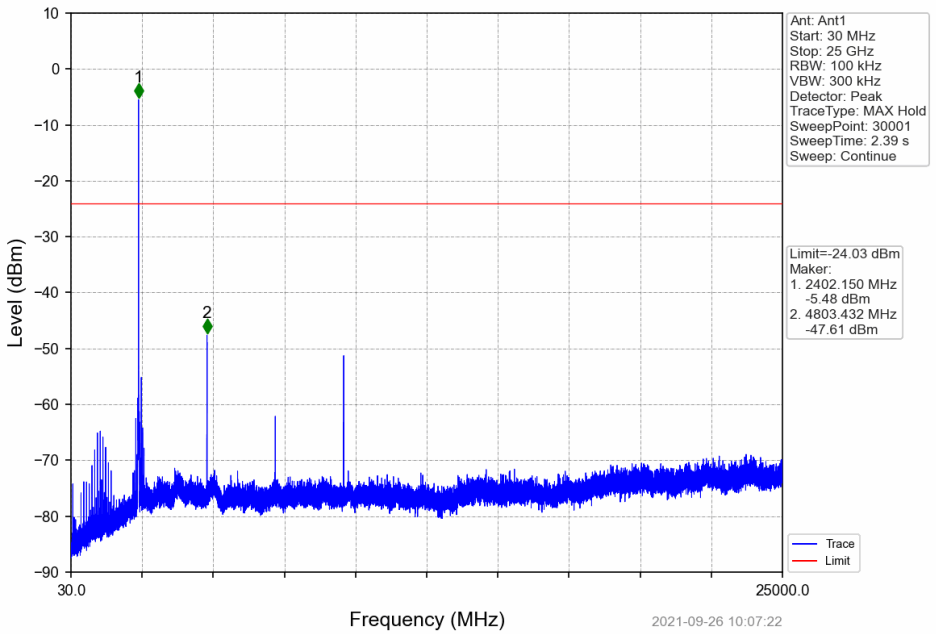

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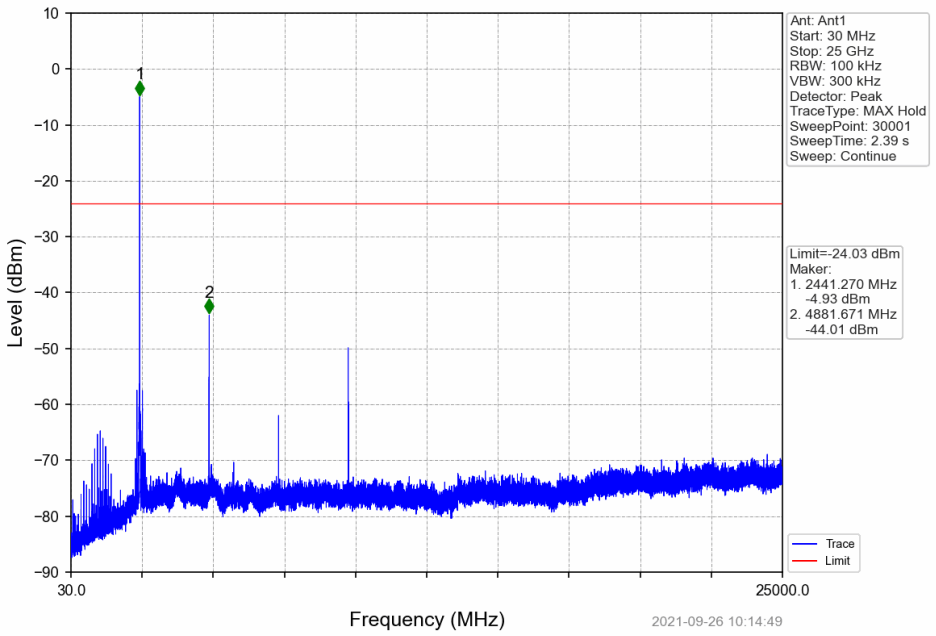
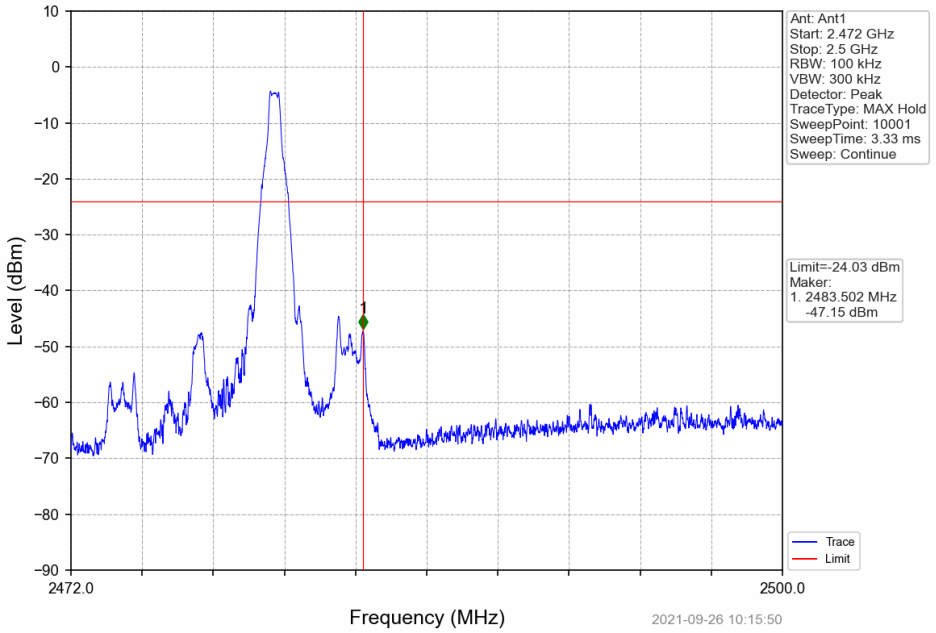
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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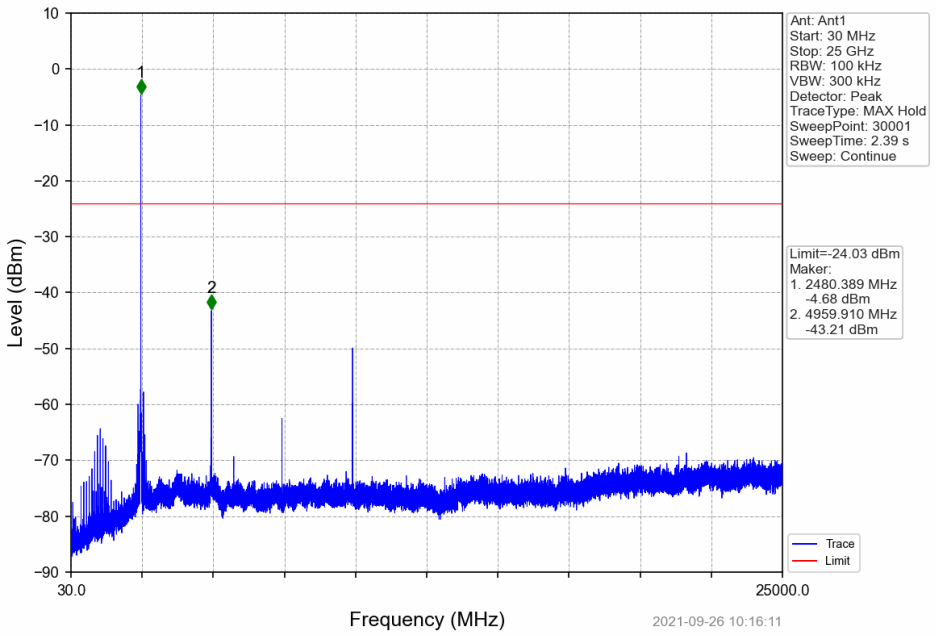
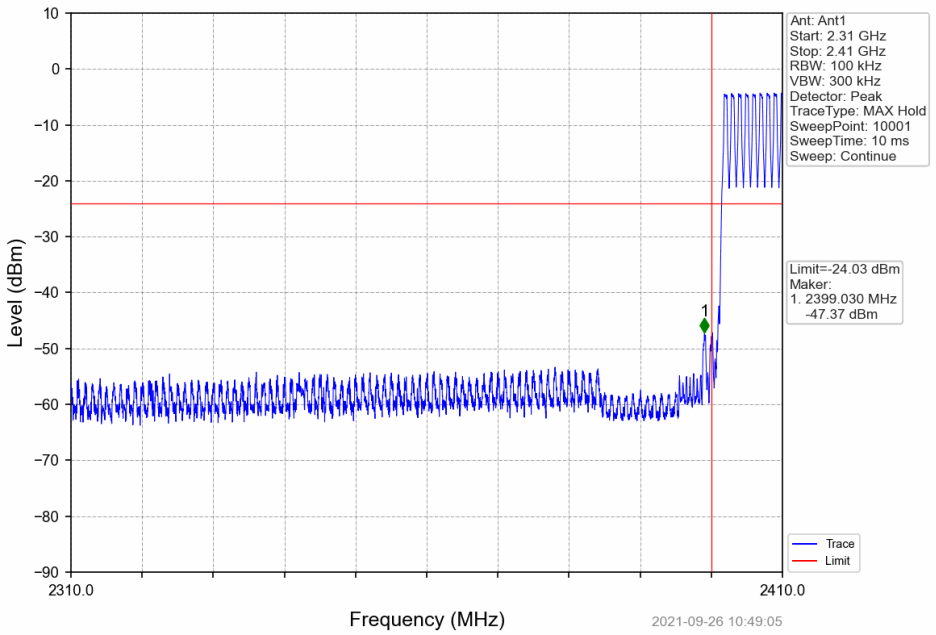
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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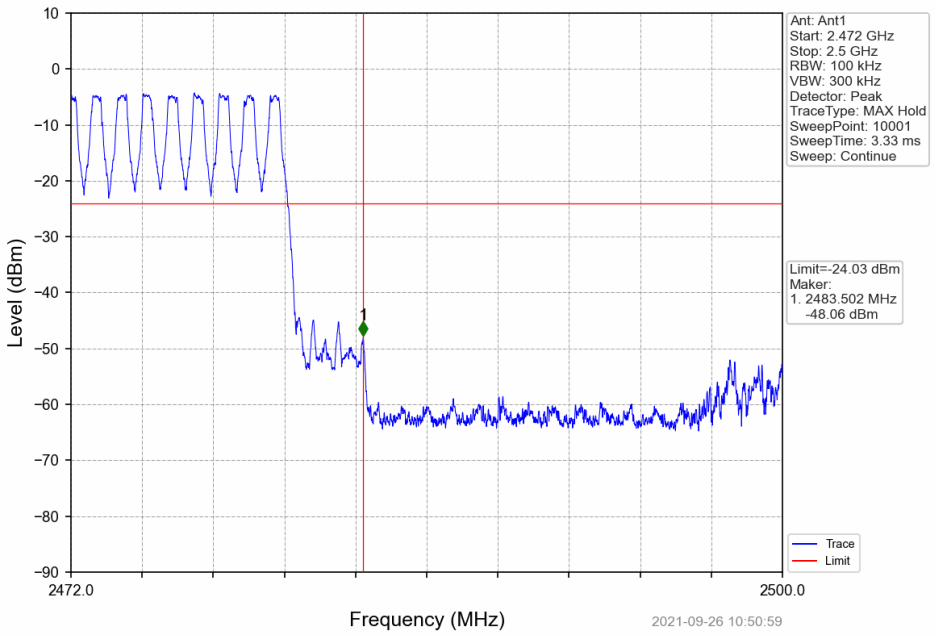
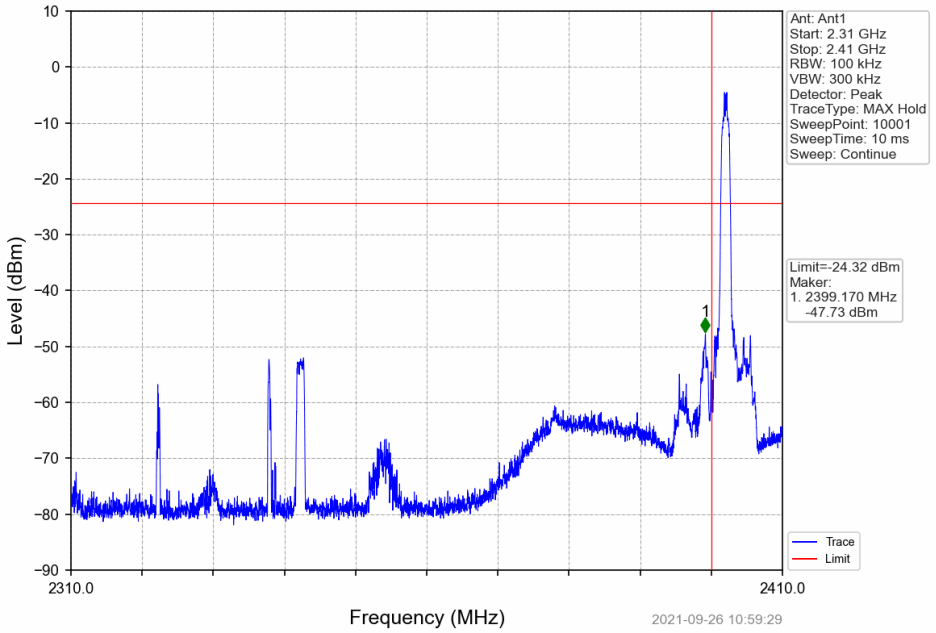
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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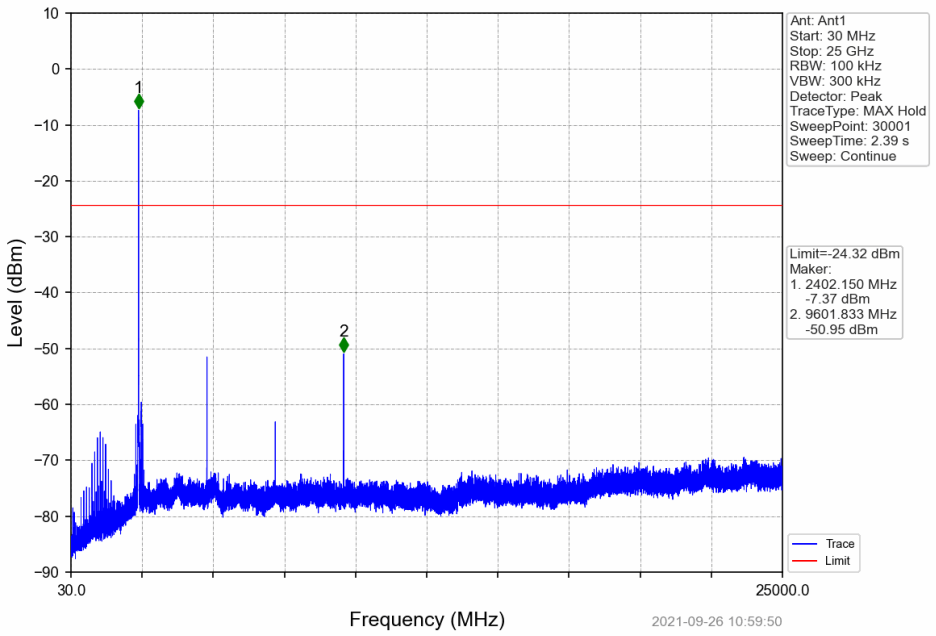

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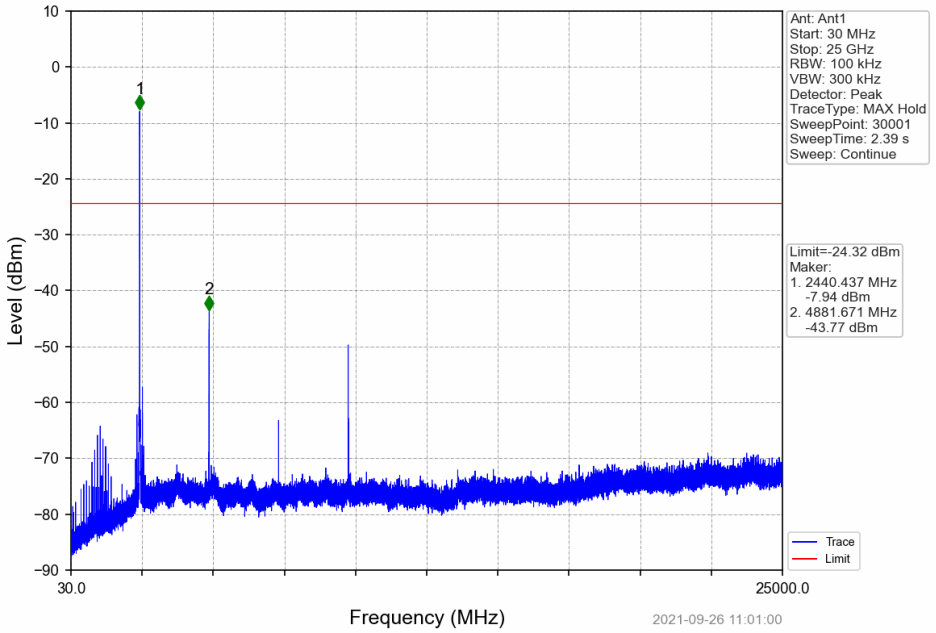

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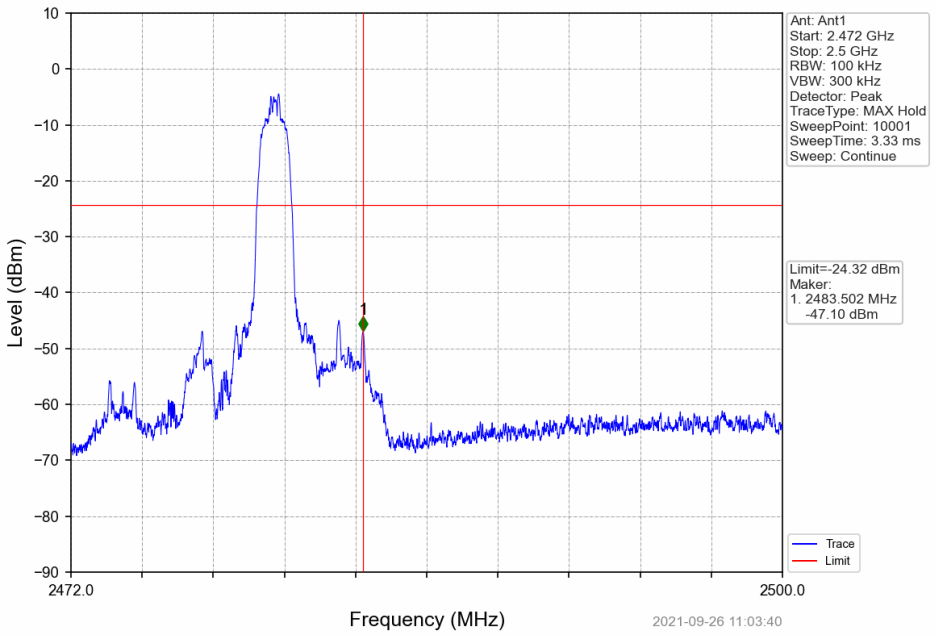
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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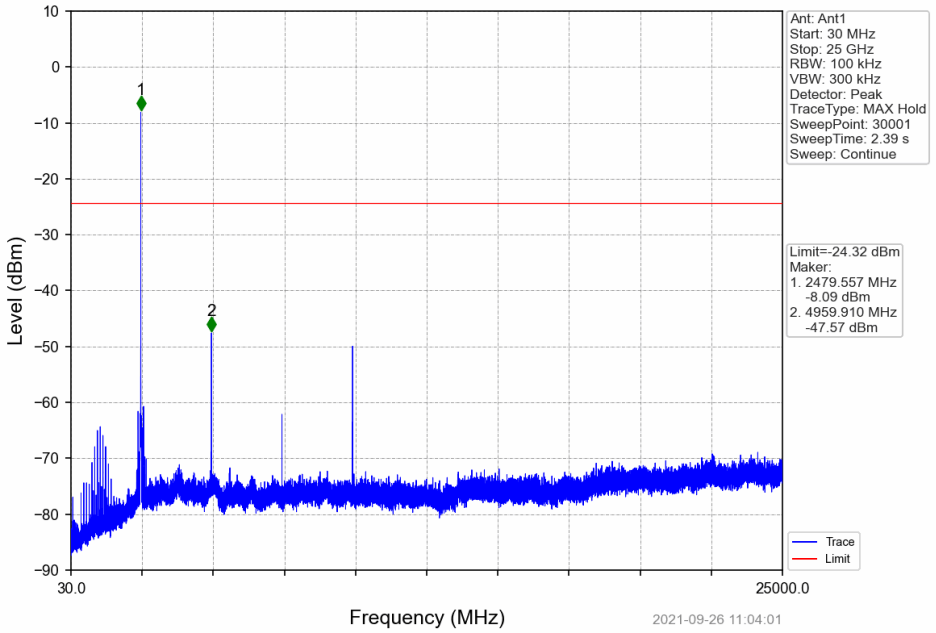

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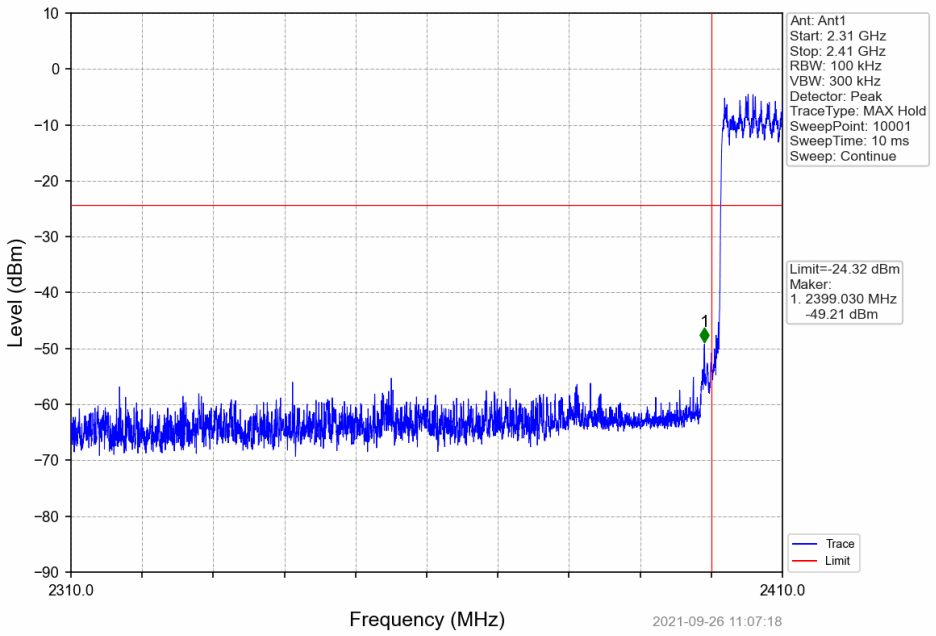
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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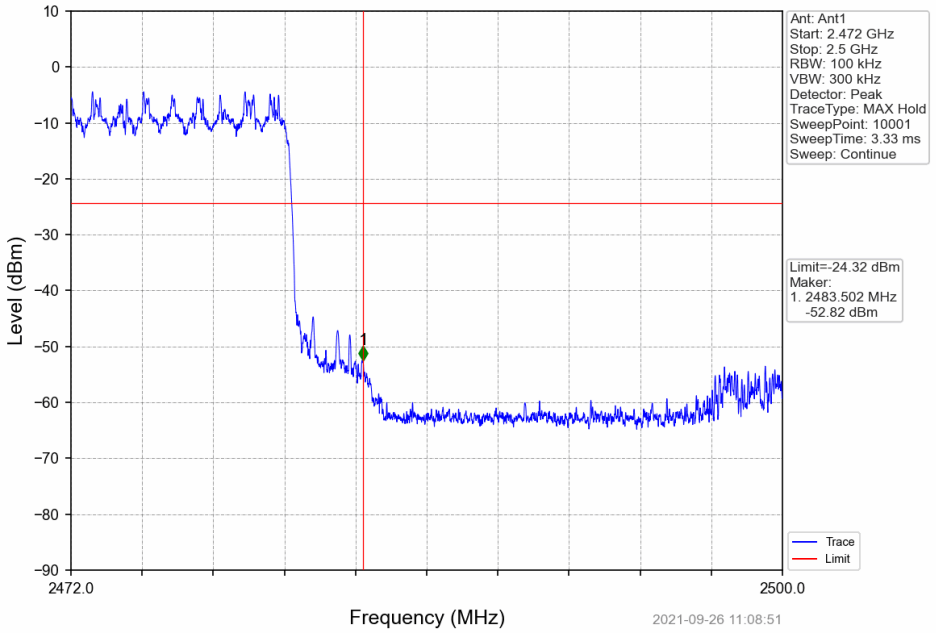

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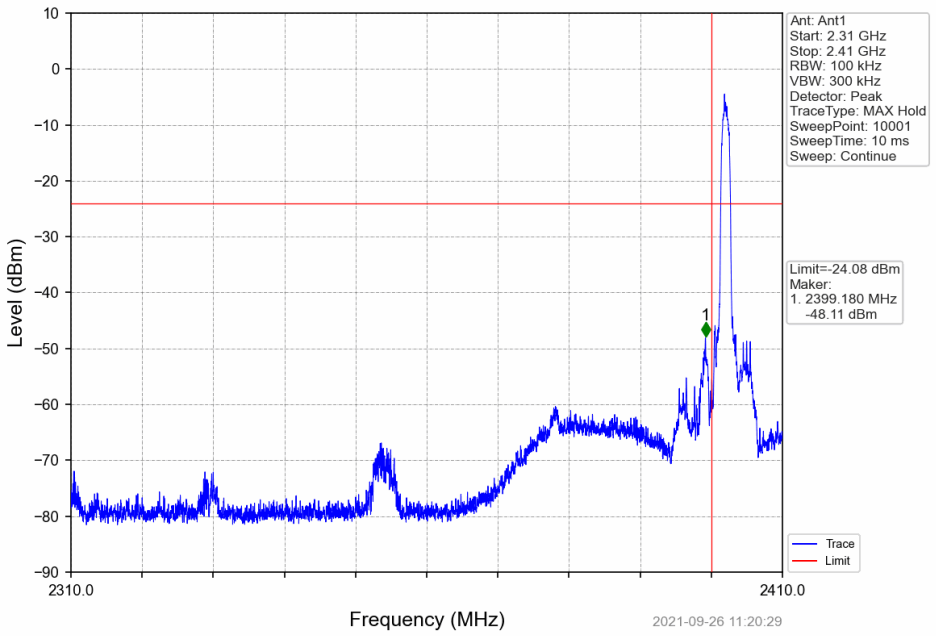
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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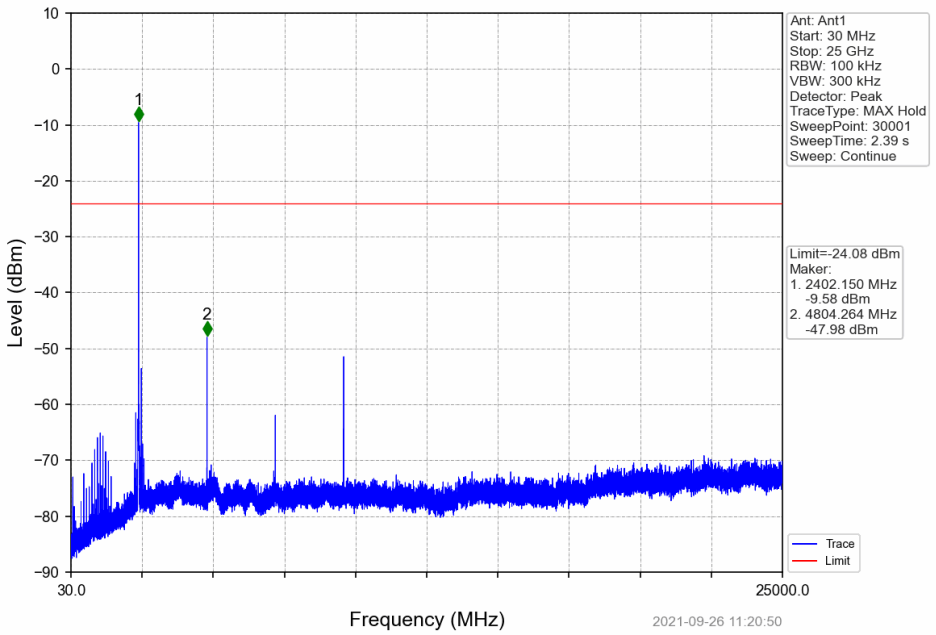

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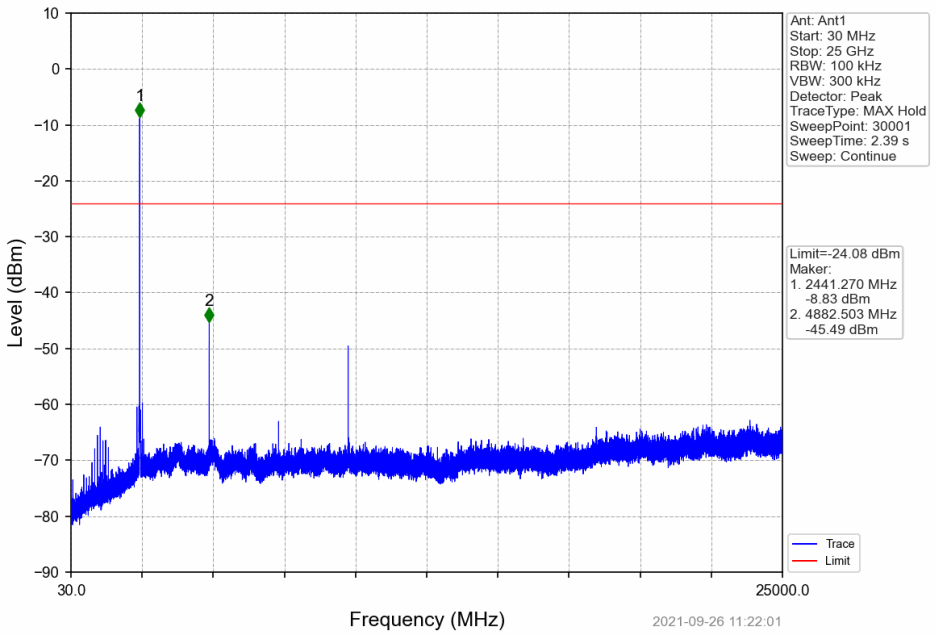
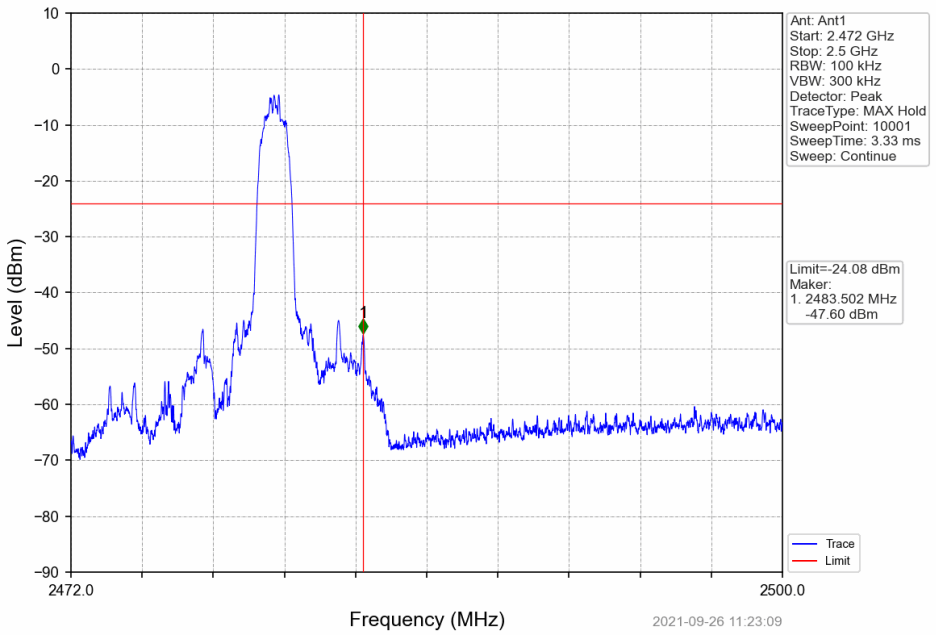
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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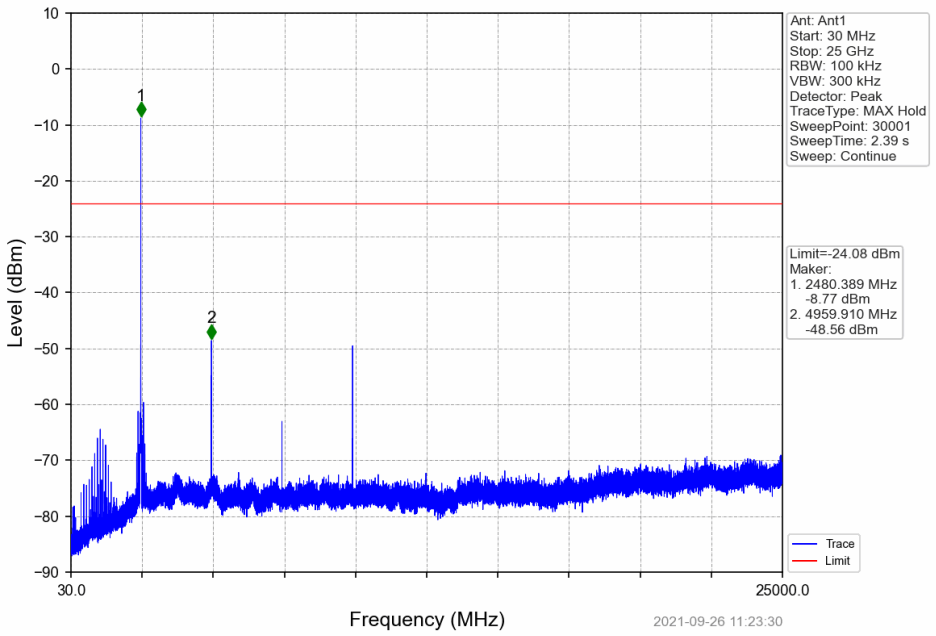
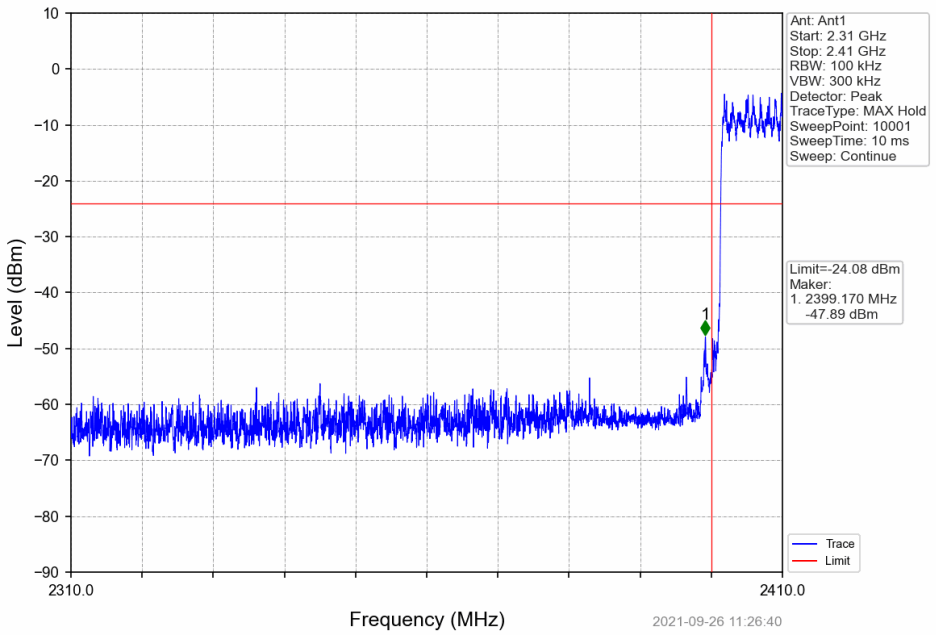
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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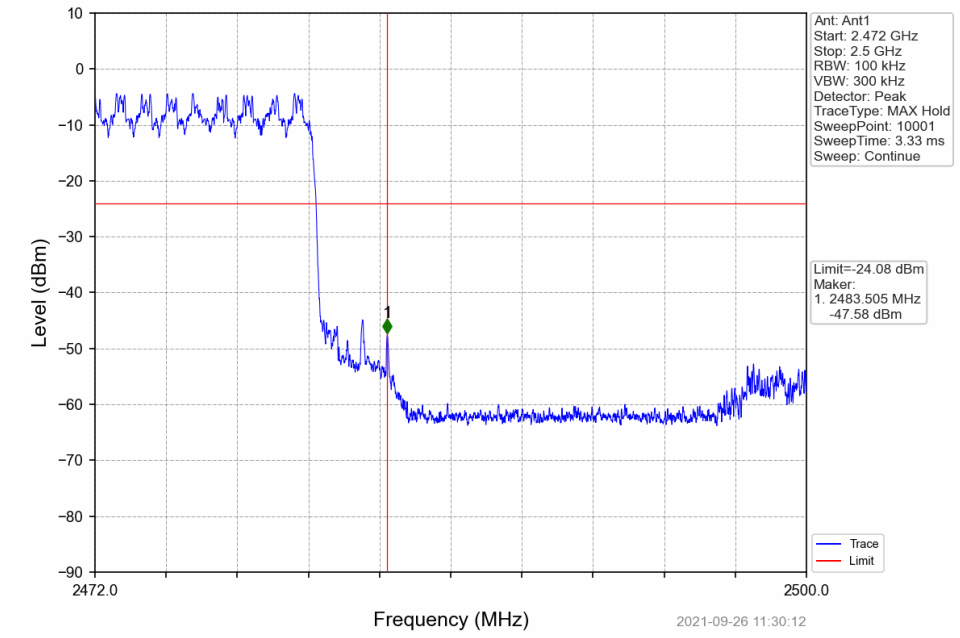

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