1. Bandwidth

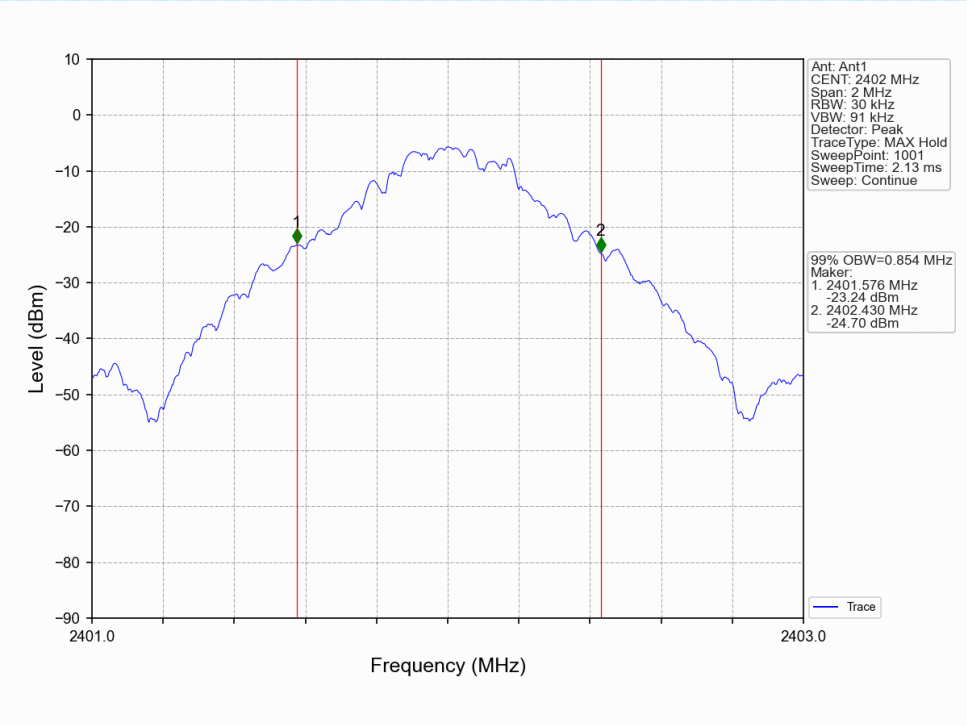
1.1 OBW

1.1.1 Test Result

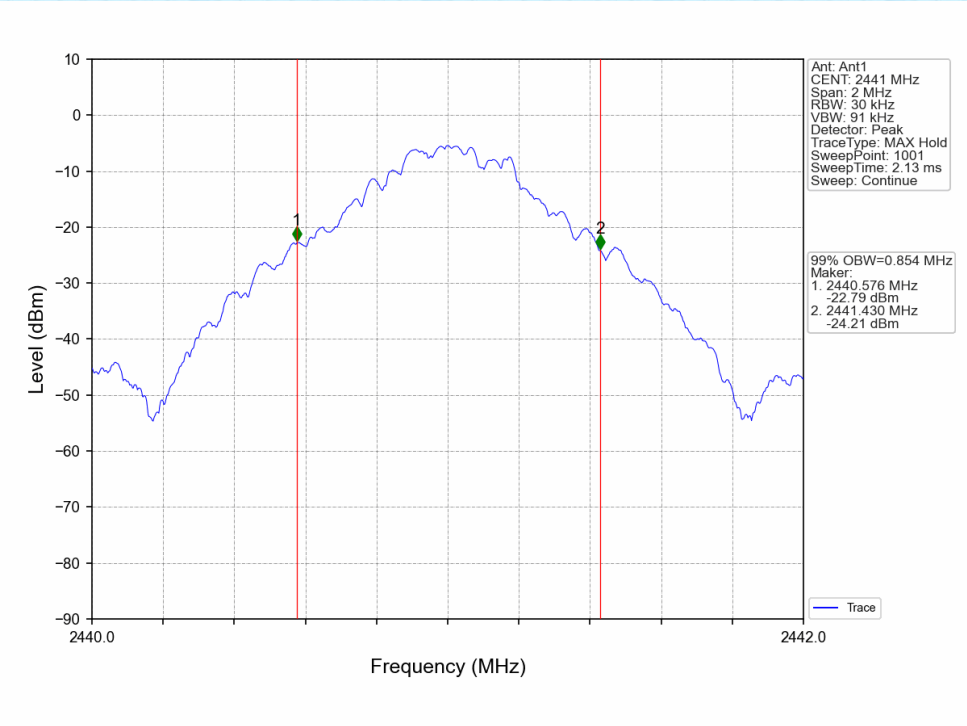
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
GFSK	SISO	2402	DH5	1	0.854	Pass
		2441	DH5	1	0.854	Pass
		2480	DH5	1	0.853	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.182	Pass
		2441	2DH5	1	1.182	Pass
		2480	2DH5	1	1.185	Pass

1.1.2 Test Graph

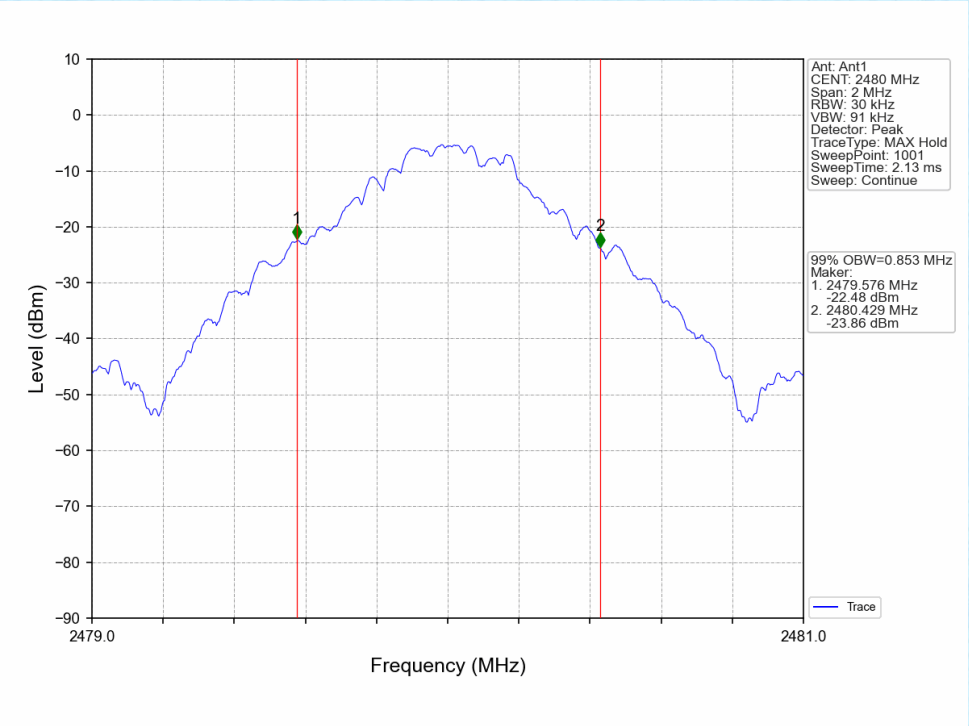
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



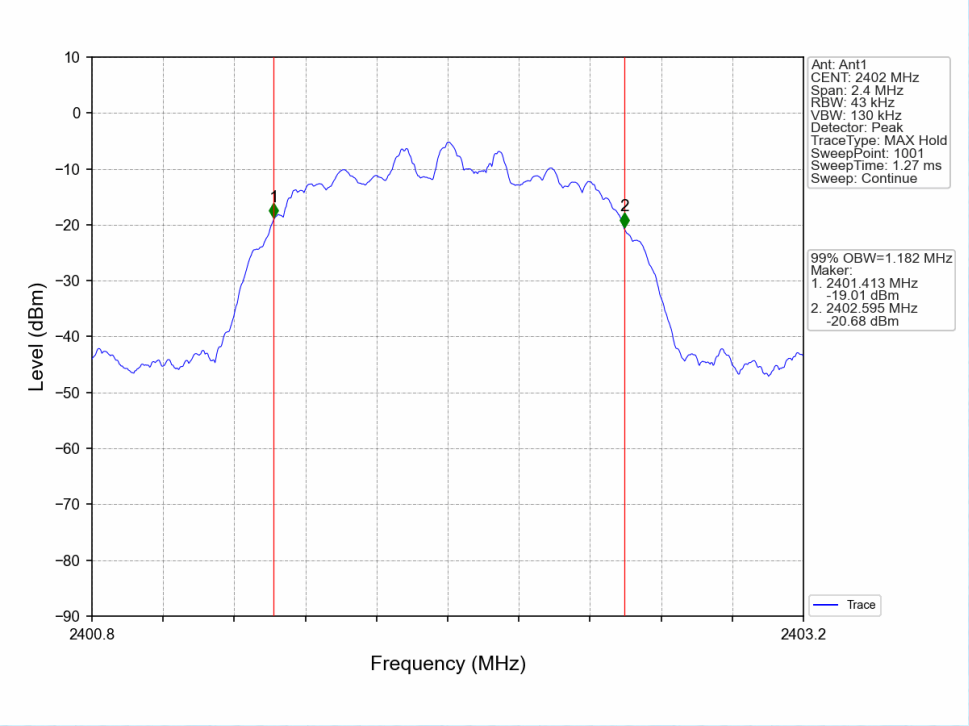
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



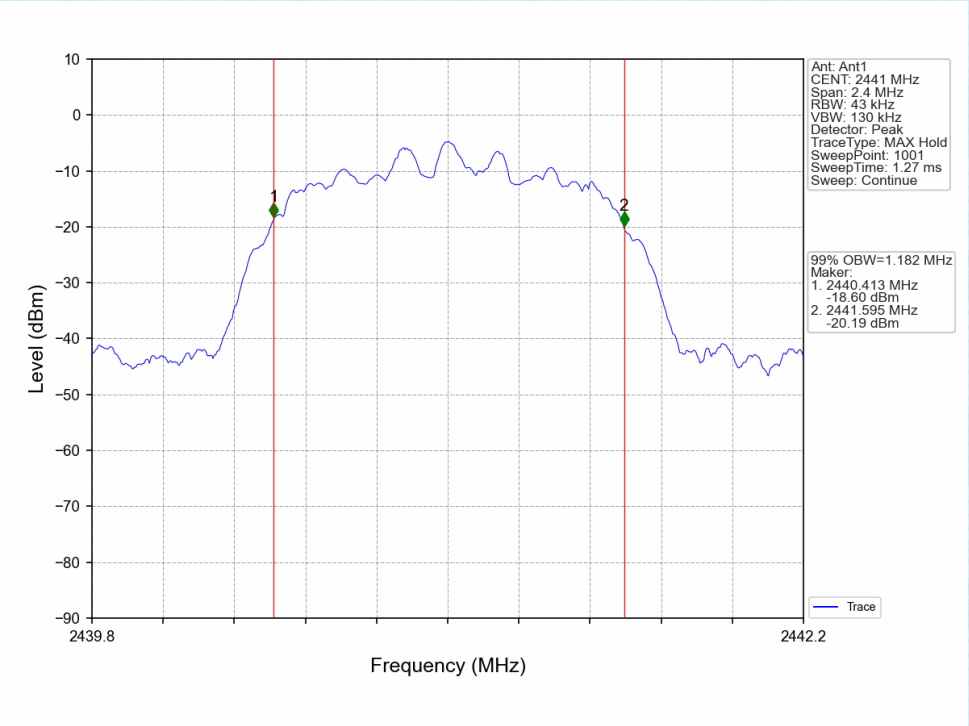
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



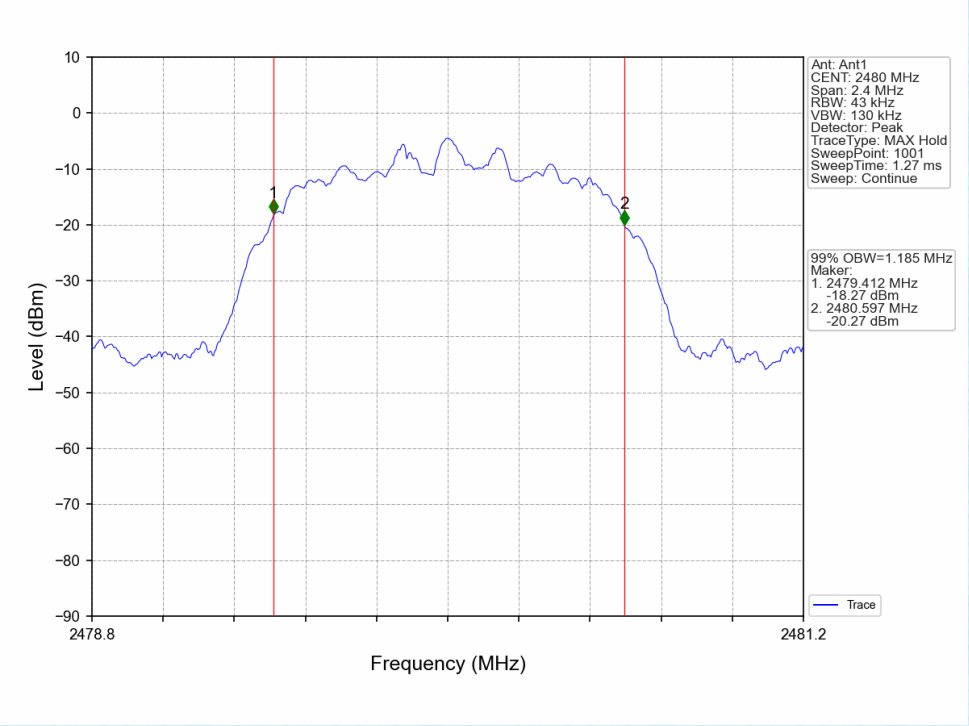
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



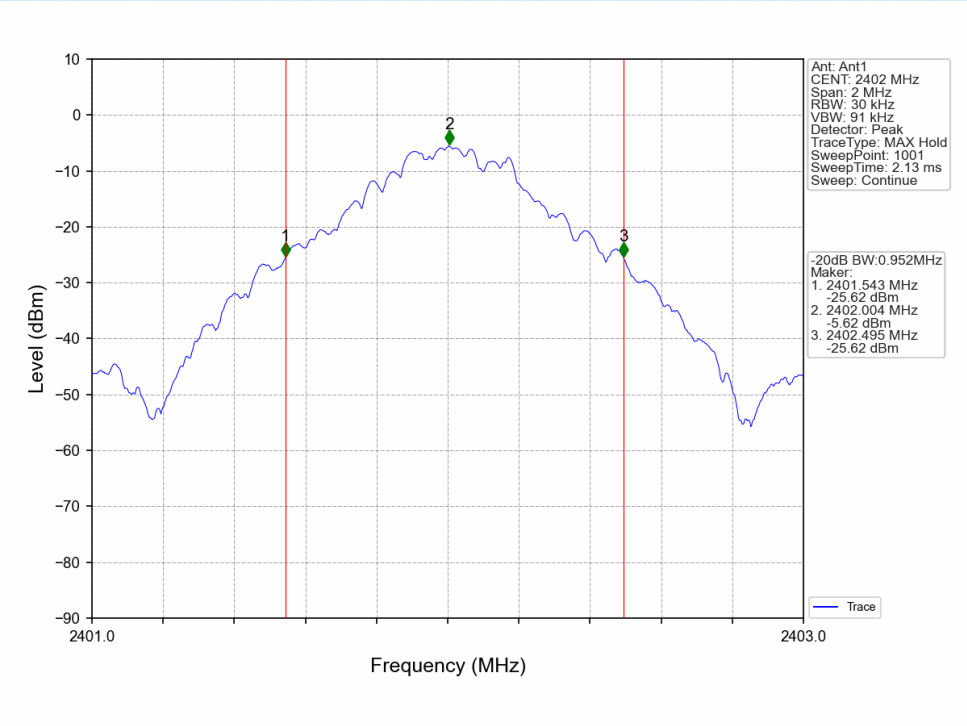
1.2 20dB BW

1.2.1 Test Result

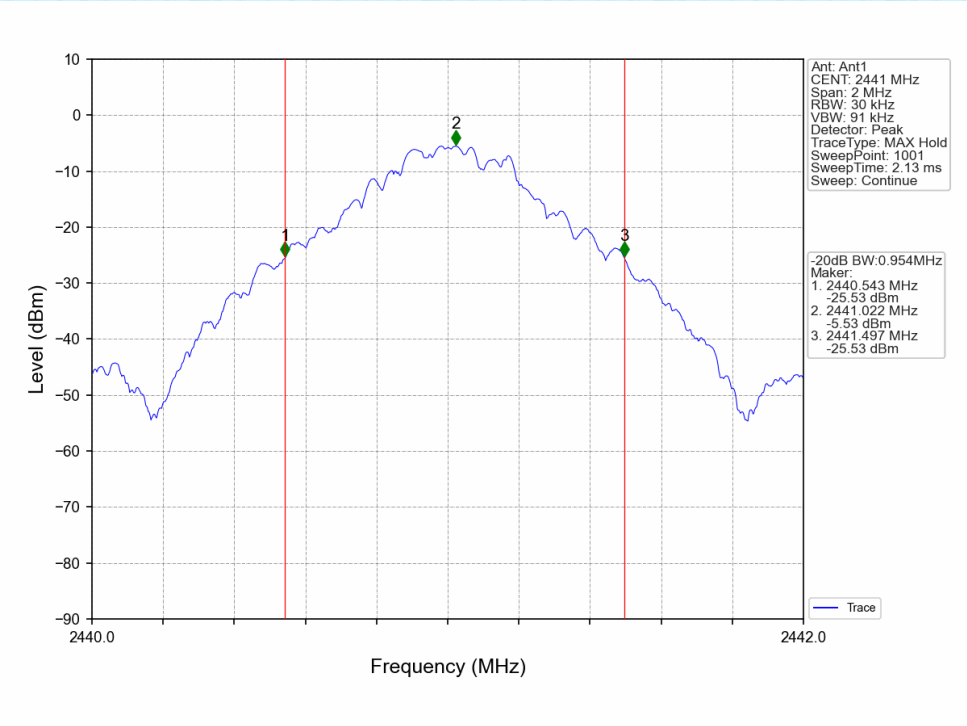
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.952	Pass
		2441	DH5	1	0.954	Pass
		2480	DH5	1	0.952	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.333	Pass
		2441	2DH5	1	1.333	Pass
		2480	2DH5	1	1.335	Pass

1.2.2 Test Graph

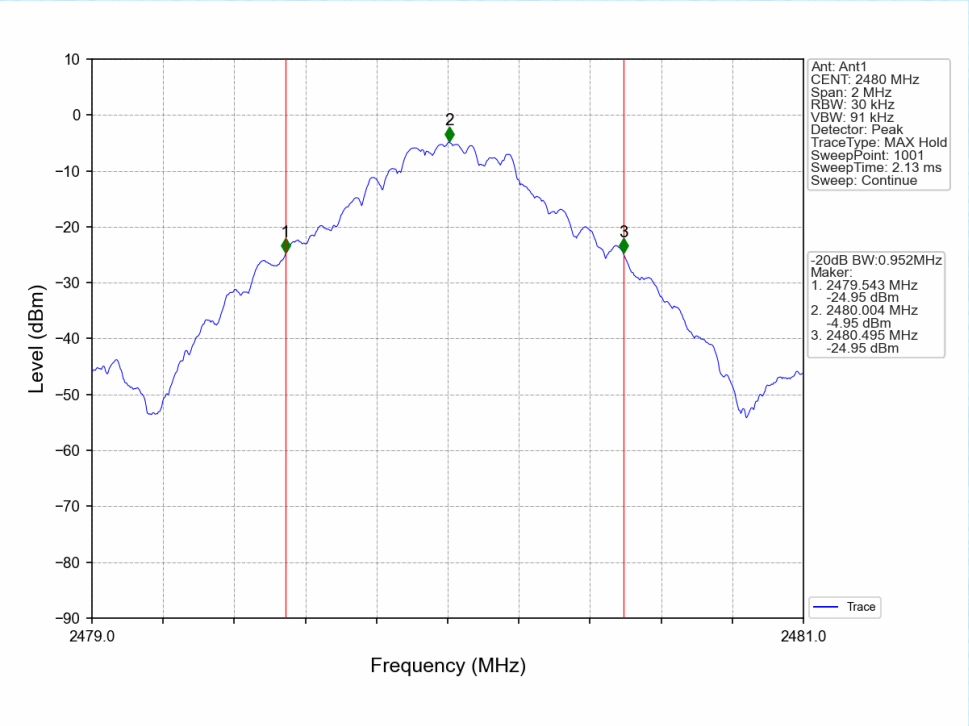
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



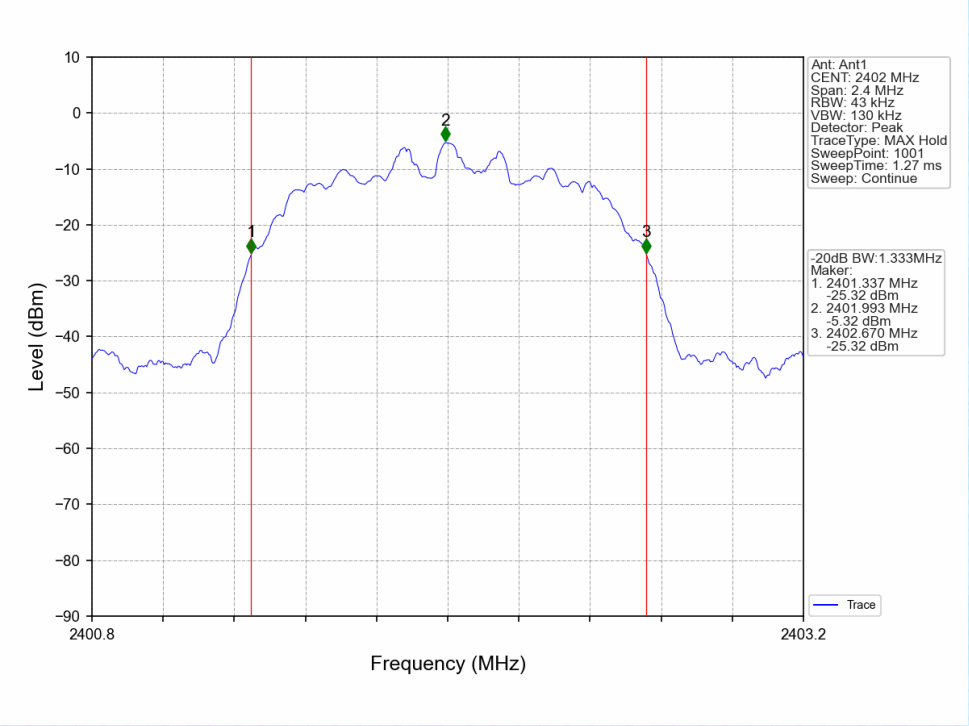
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



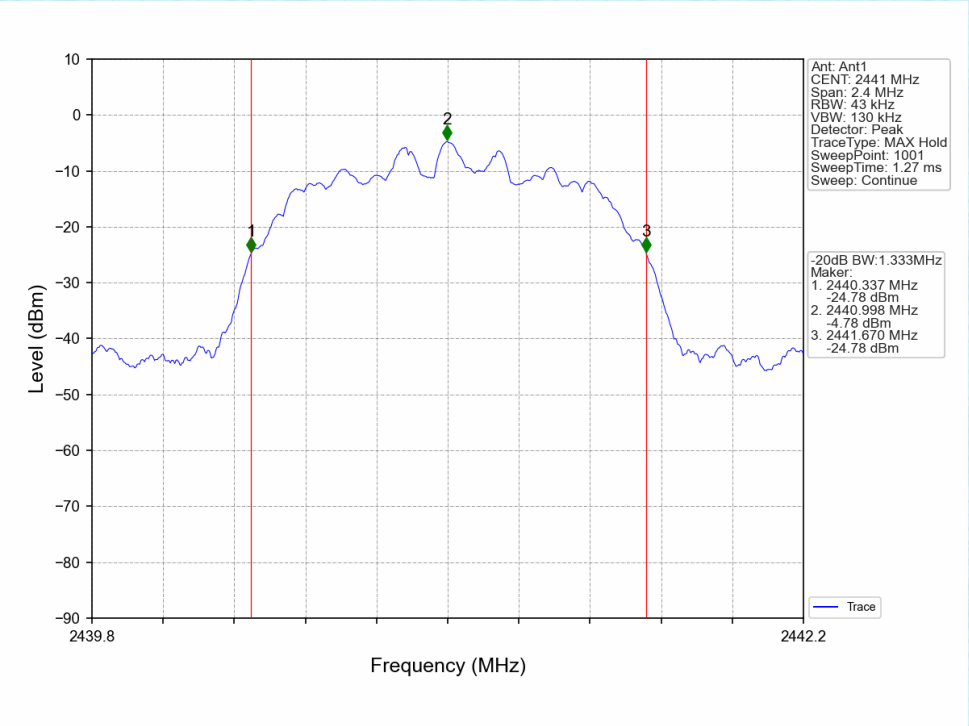
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



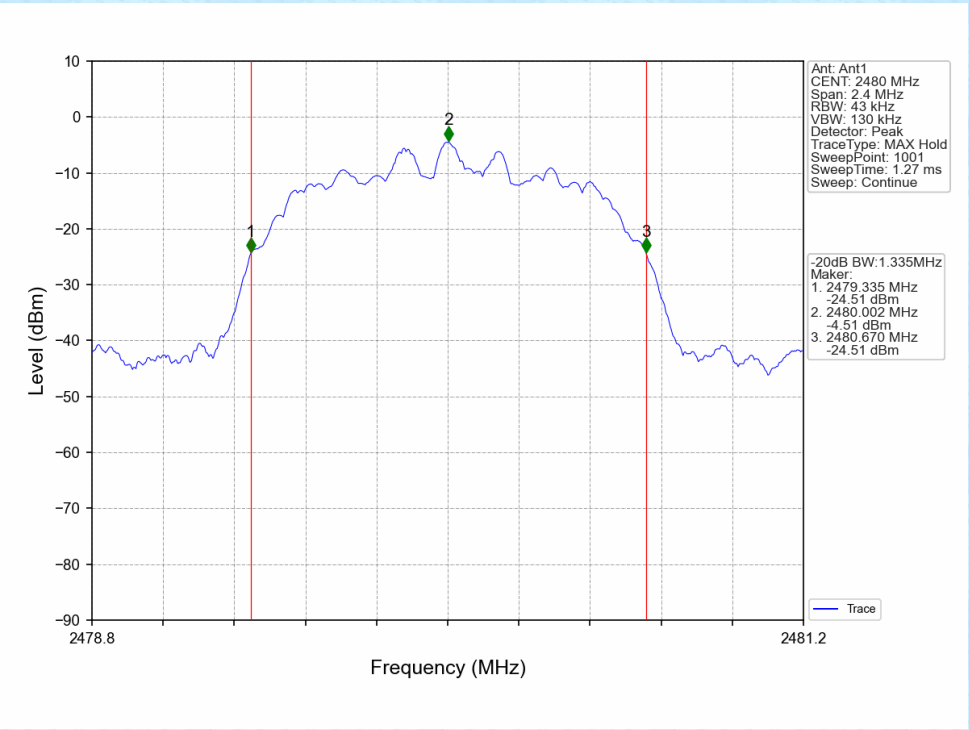
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



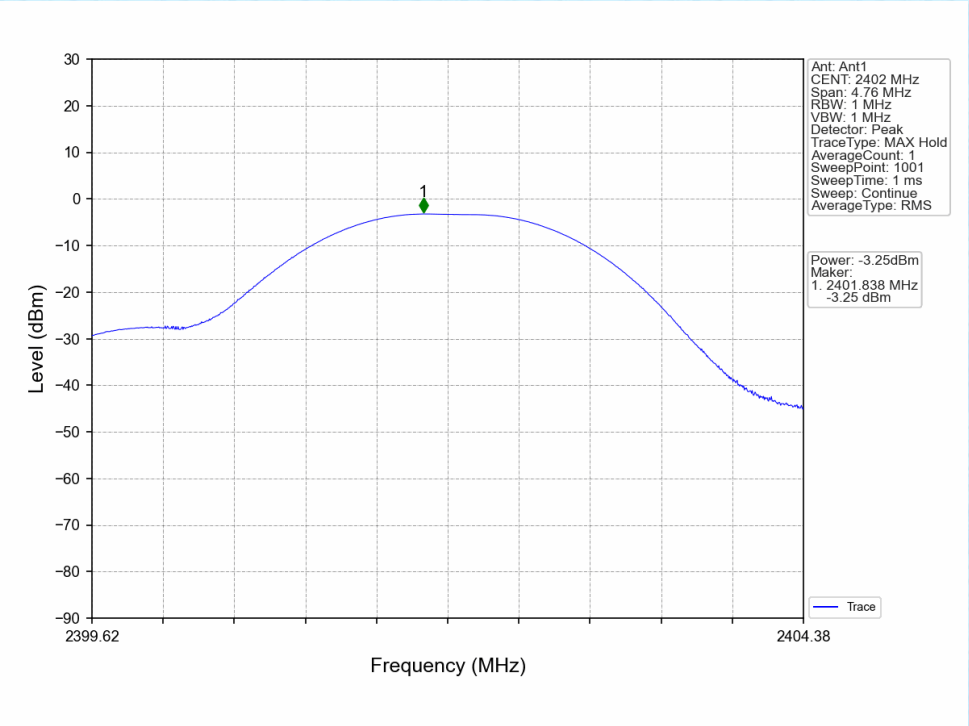
2. Maximum Conducted Output Power

2.1 Test Result

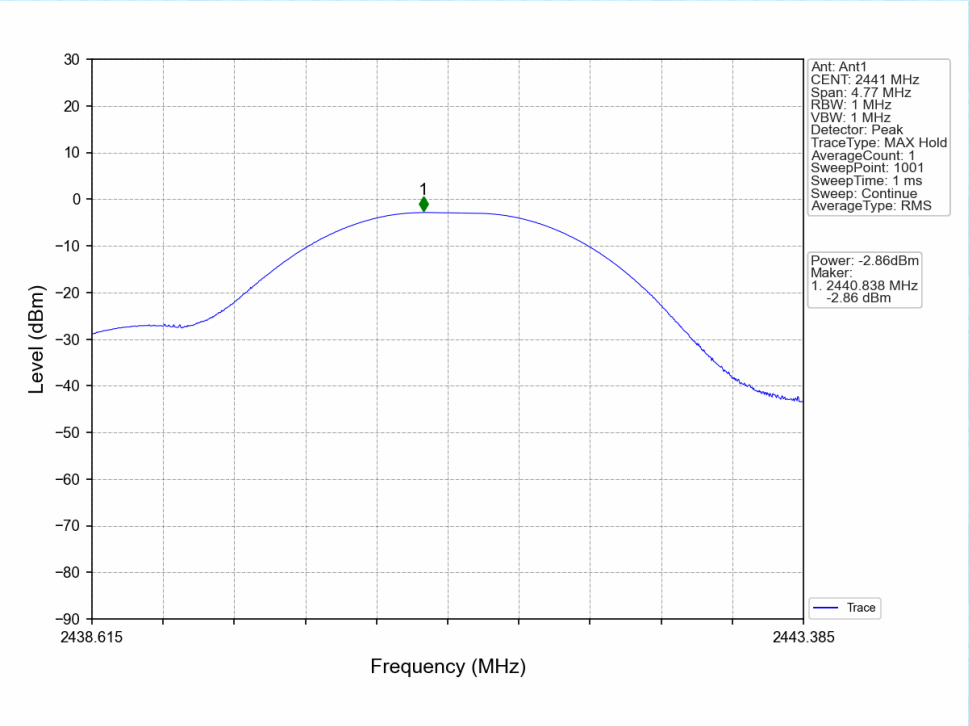
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-3.25	<=30	Pass
		2441	DH5	-2.86	<=30	Pass
		2480	DH5	-2.59	<=30	Pass
π/4DQPSK	SISO	2402	2DH5	-2.41	<=20.97	Pass
		2441	2DH5	-2.07	<=20.97	Pass
		2480	2DH5	-1.82	<=20.97	Pass

2.2 Test Graph

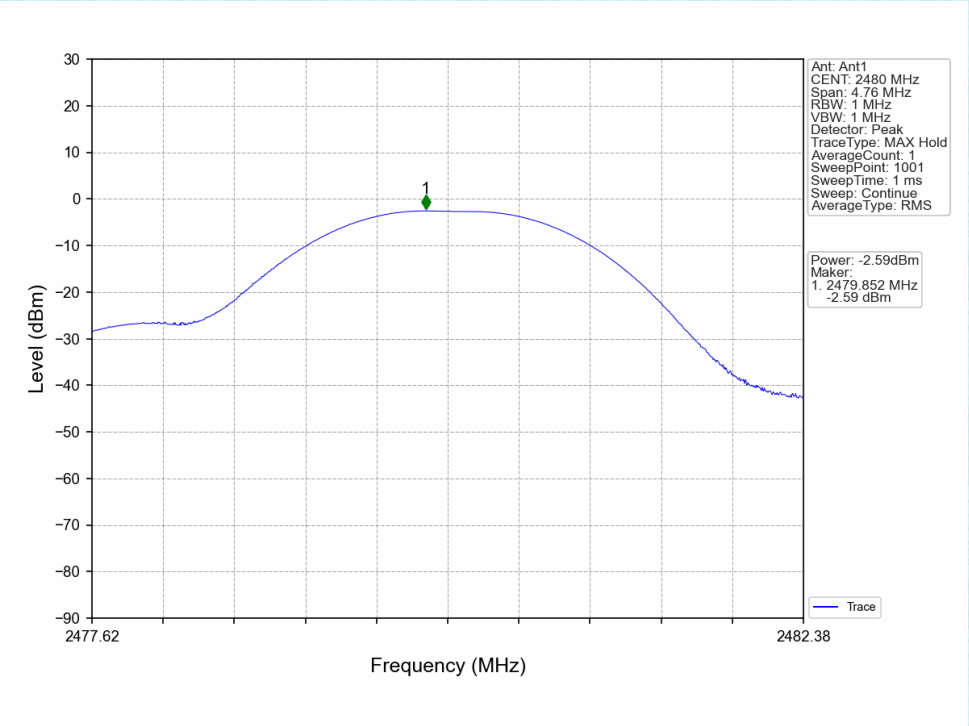
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



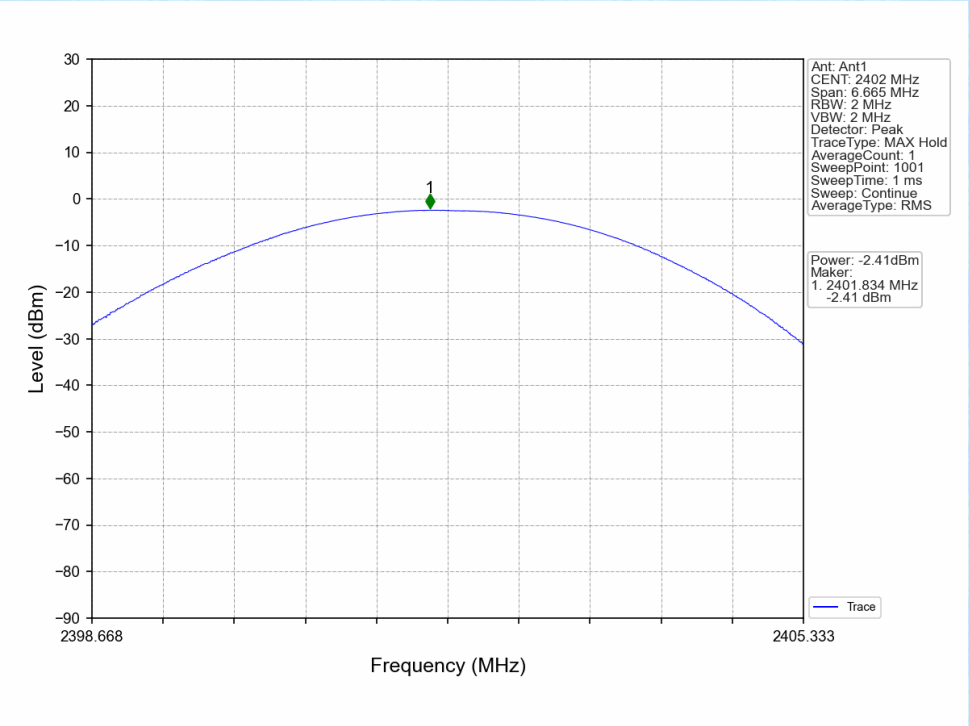
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



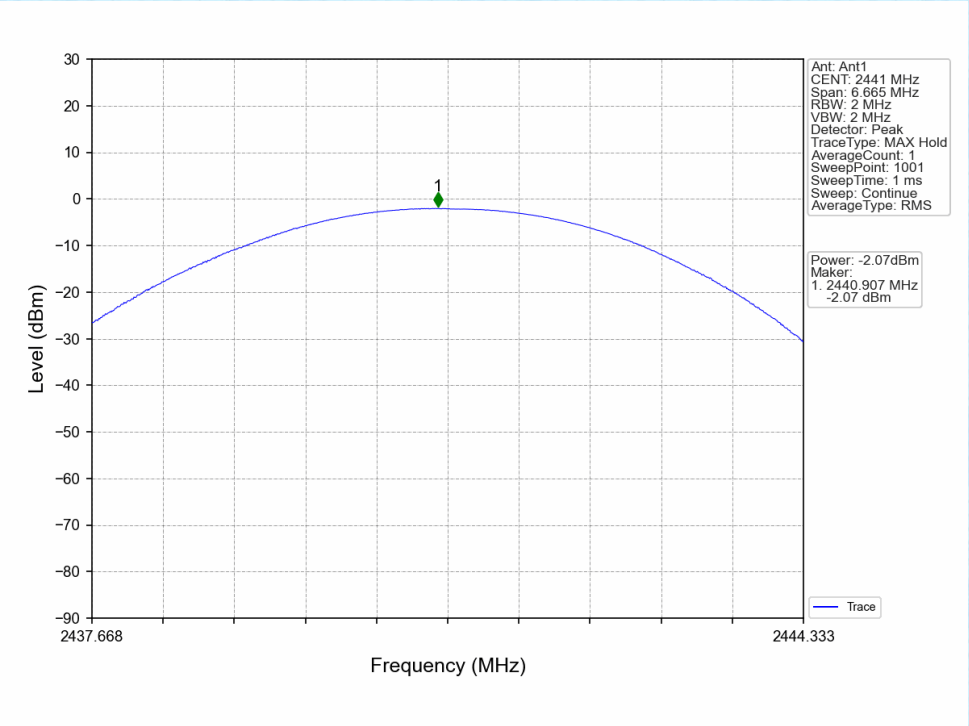
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



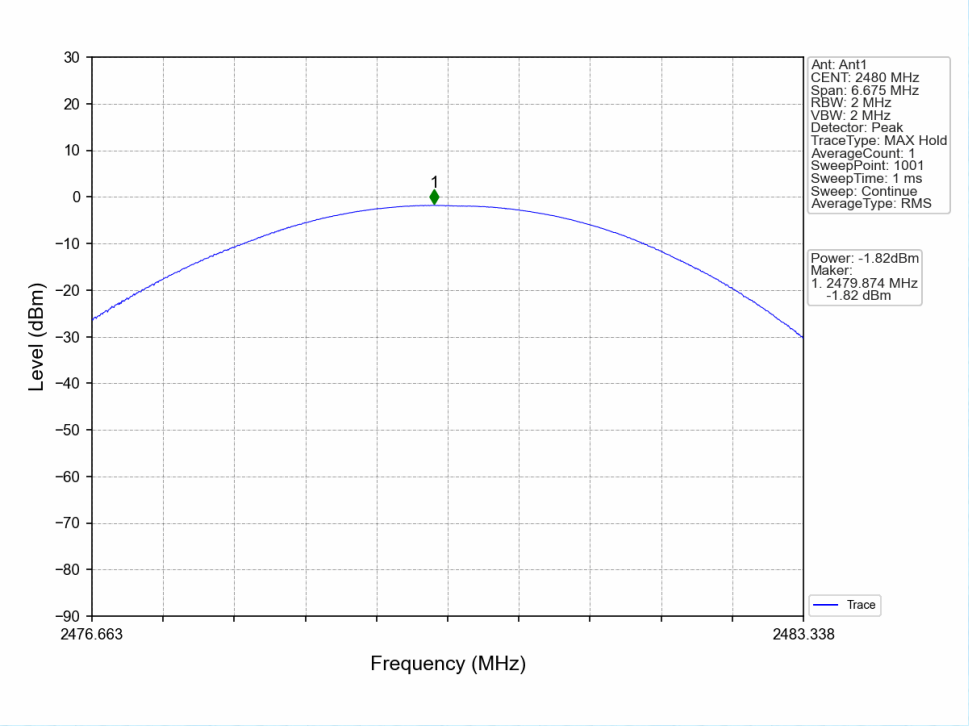
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



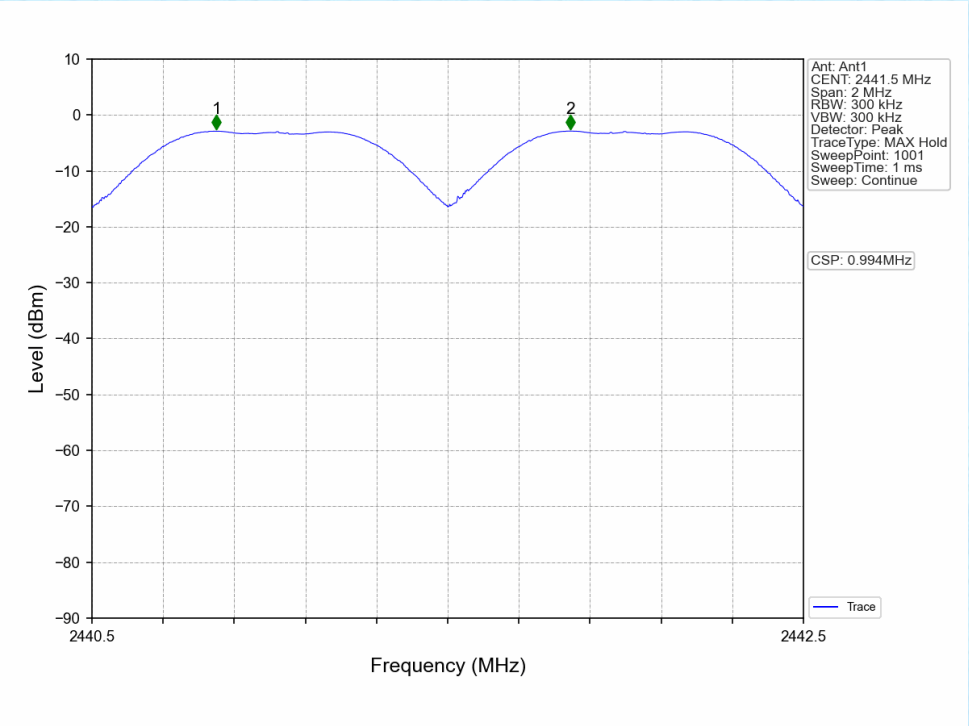
3. Carrier Frequency Separation

3.1 Test Result

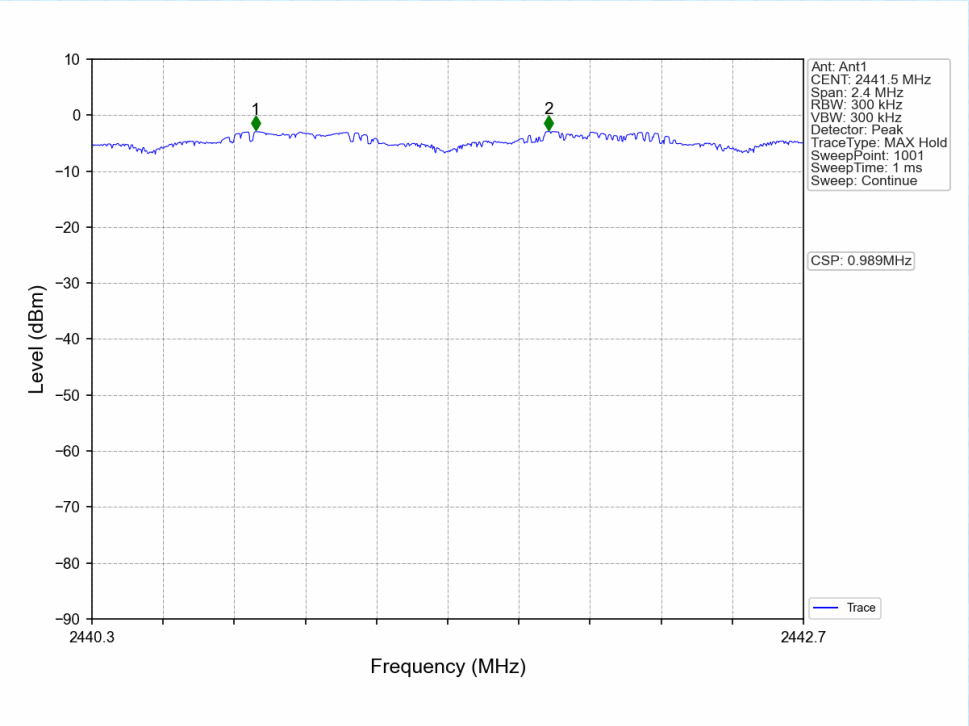
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.994	0.954	>=0.954	Pass
π/4DQPSK	SISO	HOPP	2DH5	0.989	1.335	>=0.89	Pass

3.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



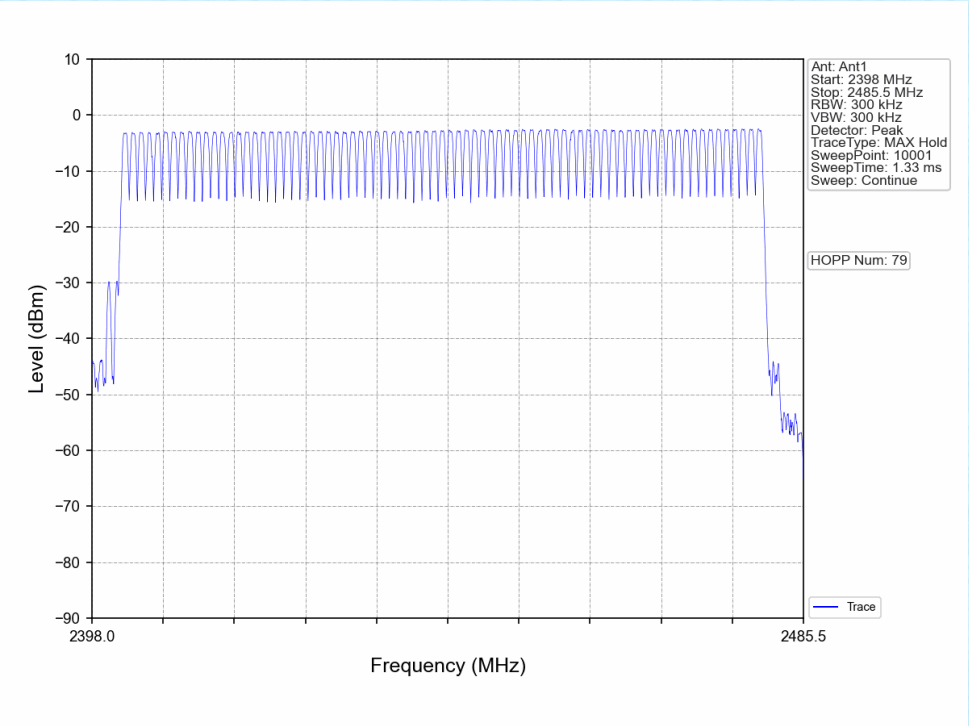
4. Number of Hopπng Frequencies

4.1 Test Result

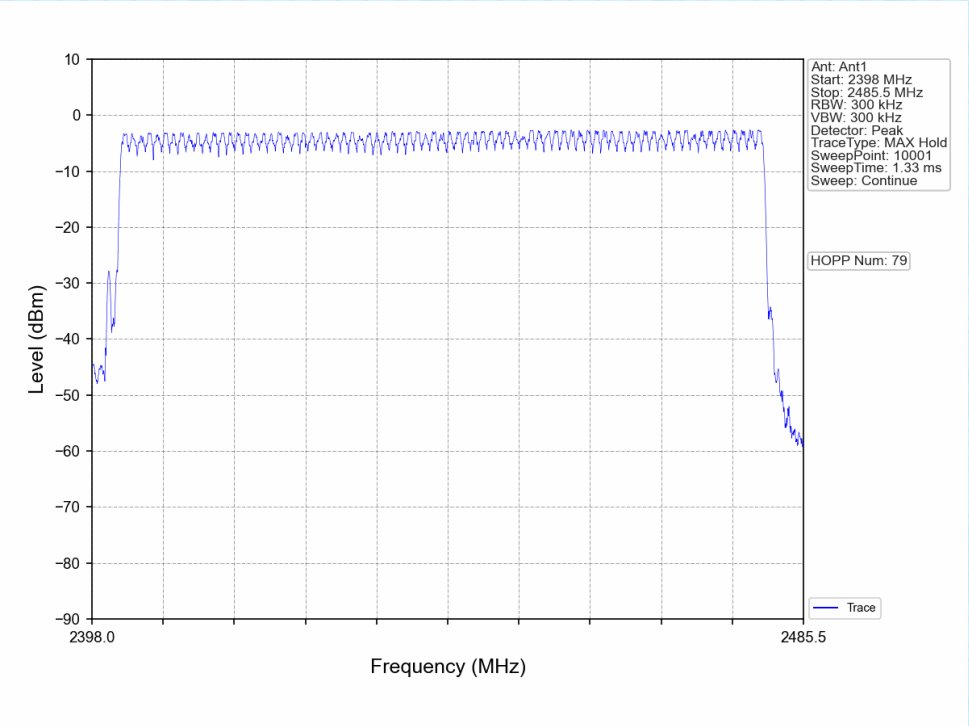
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopπng Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
π/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass

4.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



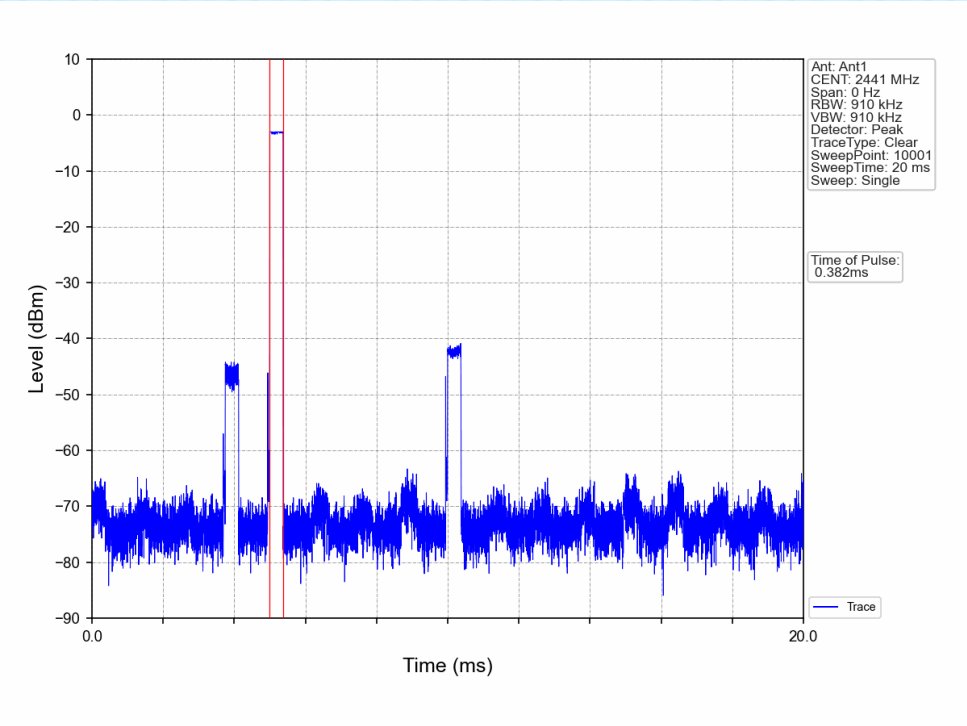
5. Time of Occupancy (Dwell Time)

5.1 Test Result

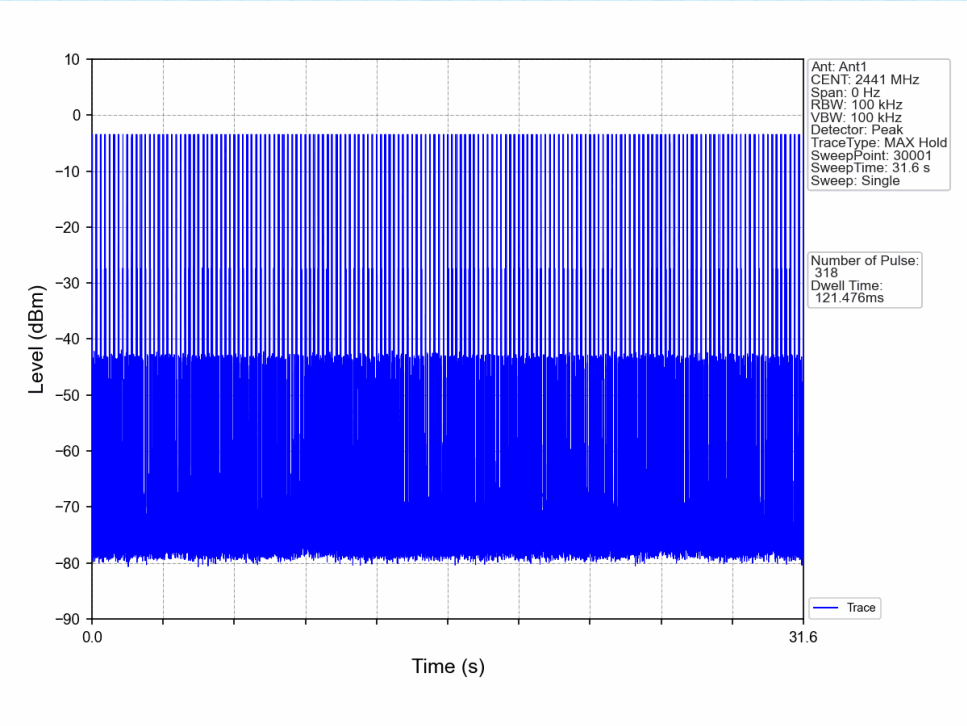
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.382	31.600	318	121.476	<=400	Pass
			DH3	1.636	31.600	163	266.668	<=400	Pass
			DH5	2.884	31.600	104	299.936	<=400	Pass
π/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	319	125.048	<=400	Pass
			2DH3	1.644	31.600	150	246.600	<=400	Pass
			2DH5	2.890	31.600	108	312.120	<=400	Pass

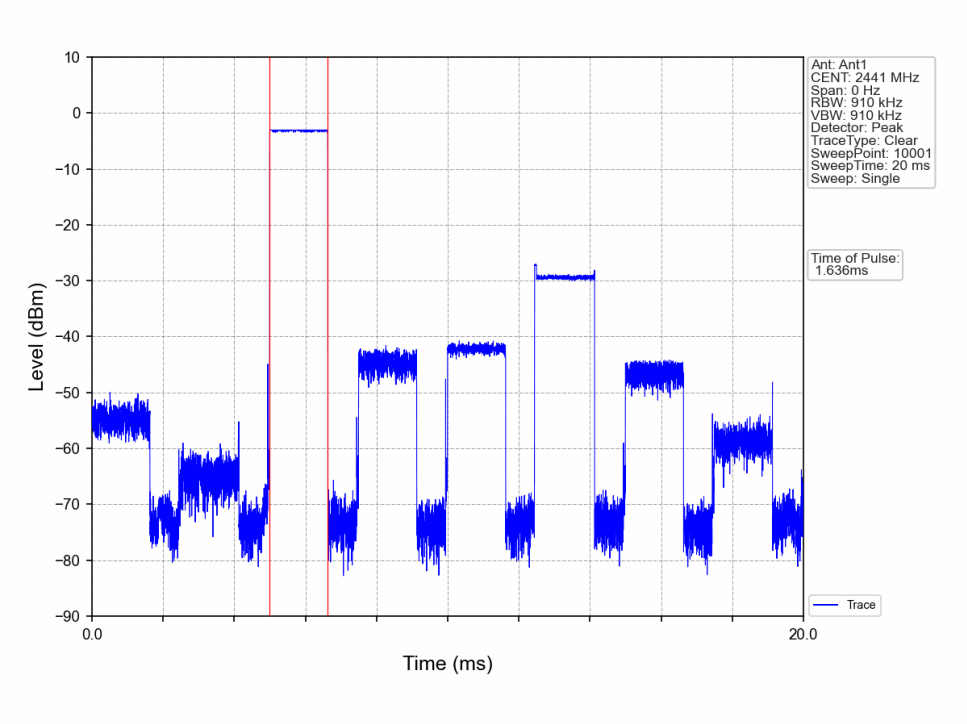
5.2 Test Graph

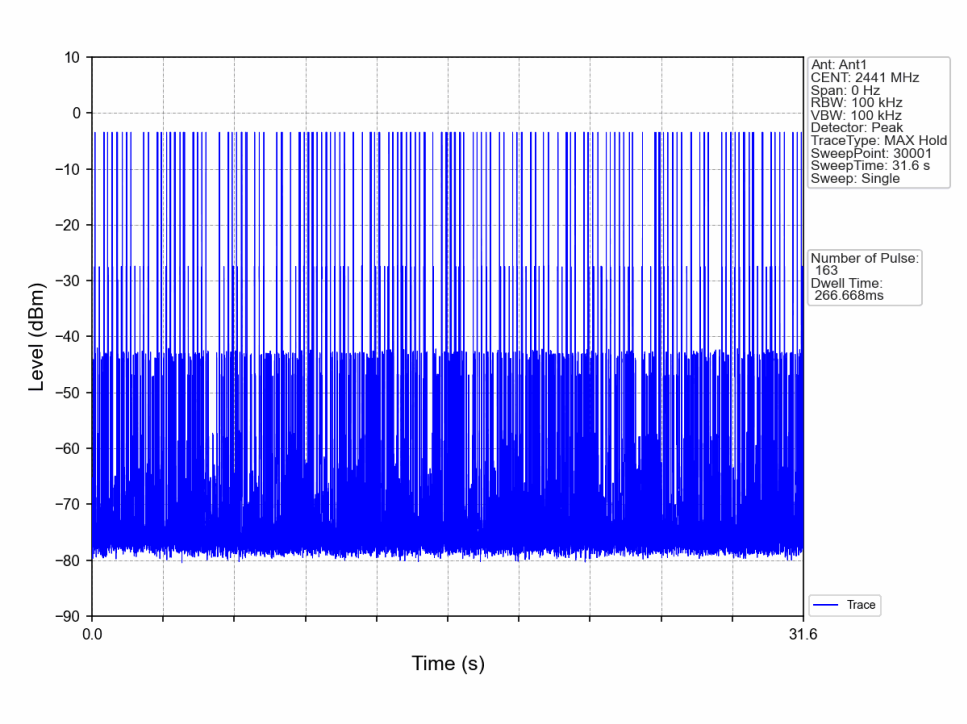
GFSK_DH1_HOPP_Ant1_NTNV



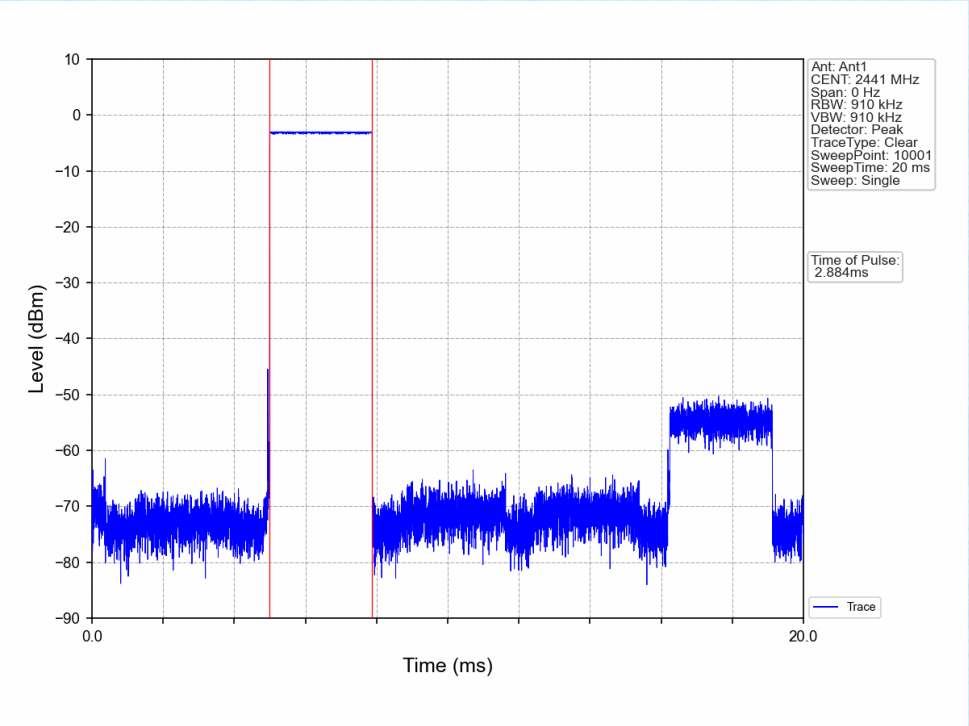
GFSK_DH1_HOPP_Ant1_NTNV



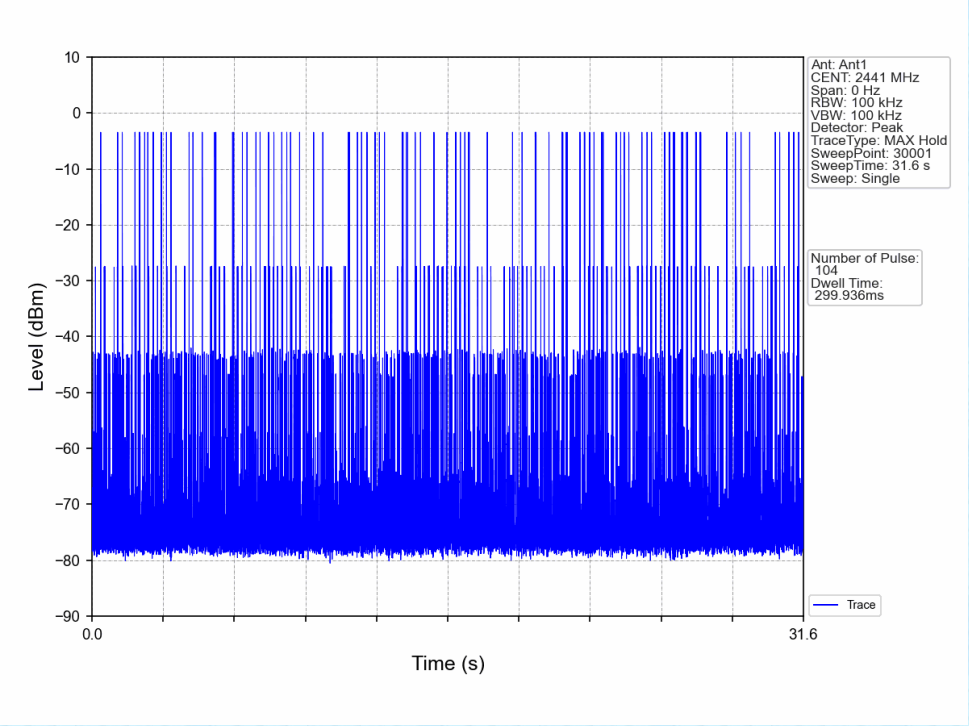
GFSK_DH3_HOPP_Ant1_NTNV


GFSK_DH3_HOPP_Ant1_NTNV


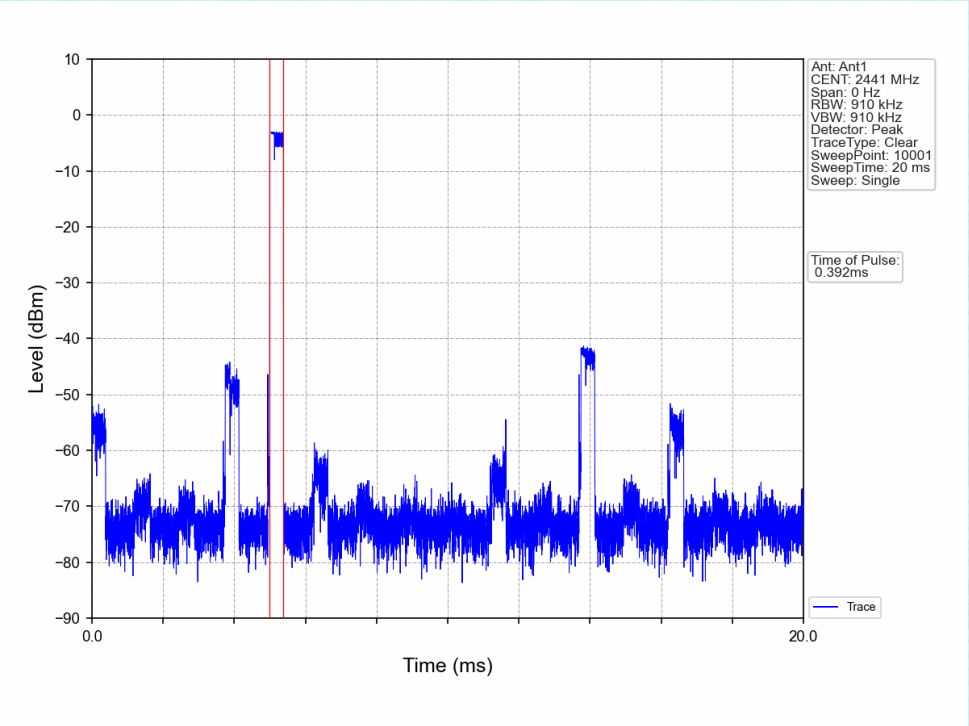
GFSK_DH5_HOPP_Ant1_NTNV



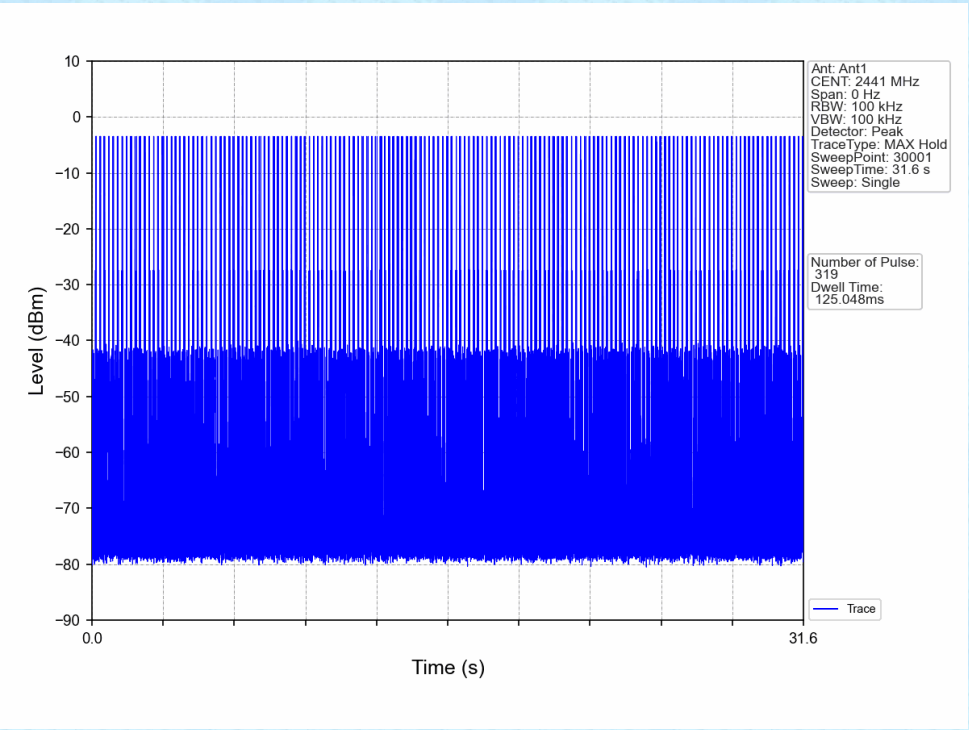
GFSK_DH5_HOPP_Ant1_NTNV



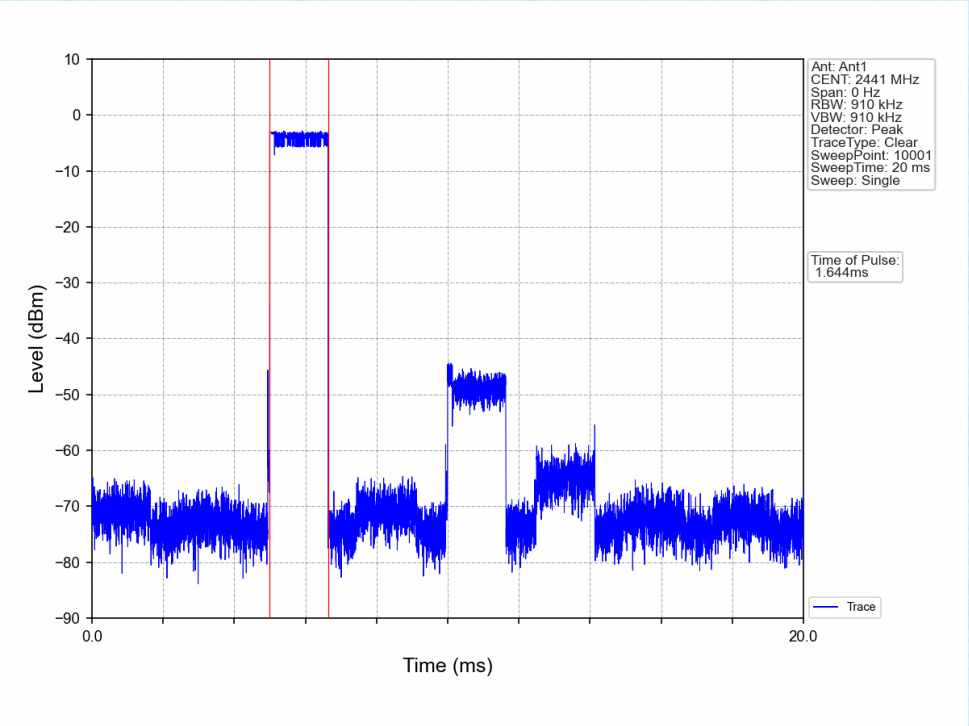
π/4DQPSK_2DH1_HOPP_Ant1_NTNV



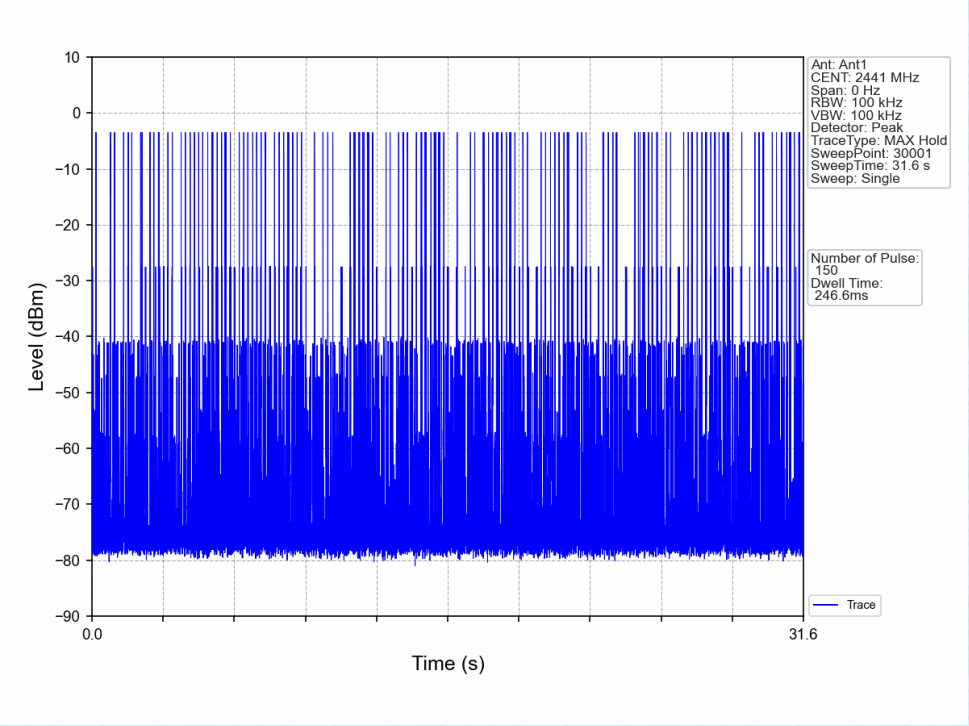
π/4DQPSK_2DH1_HOPP_Ant1_NTNV



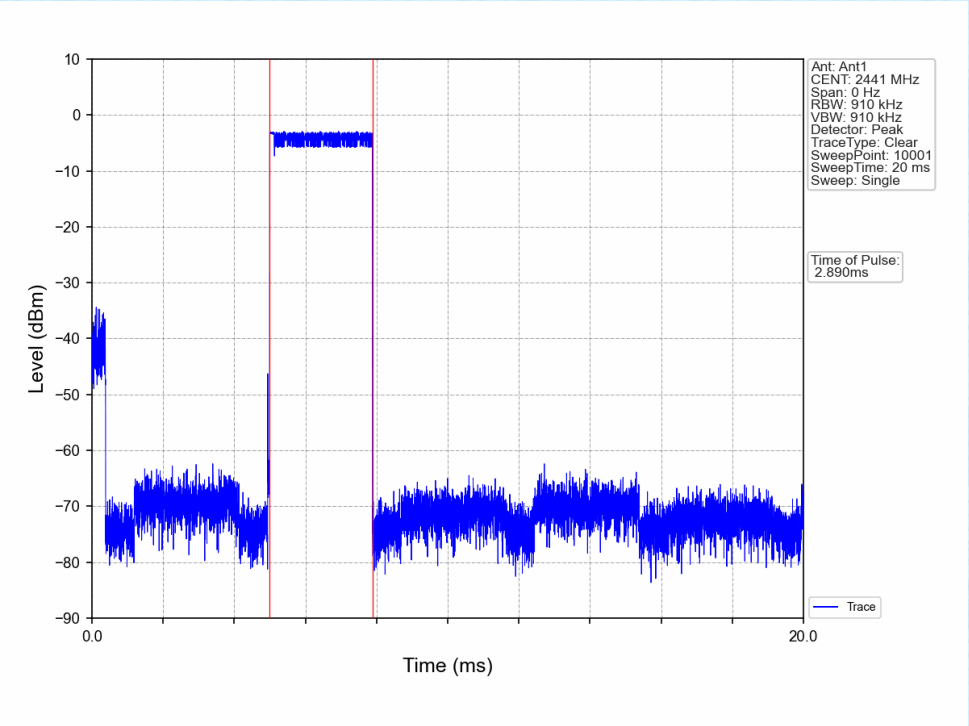
π/4DQPSK_2DH3_HOPP_Ant1_NTNV



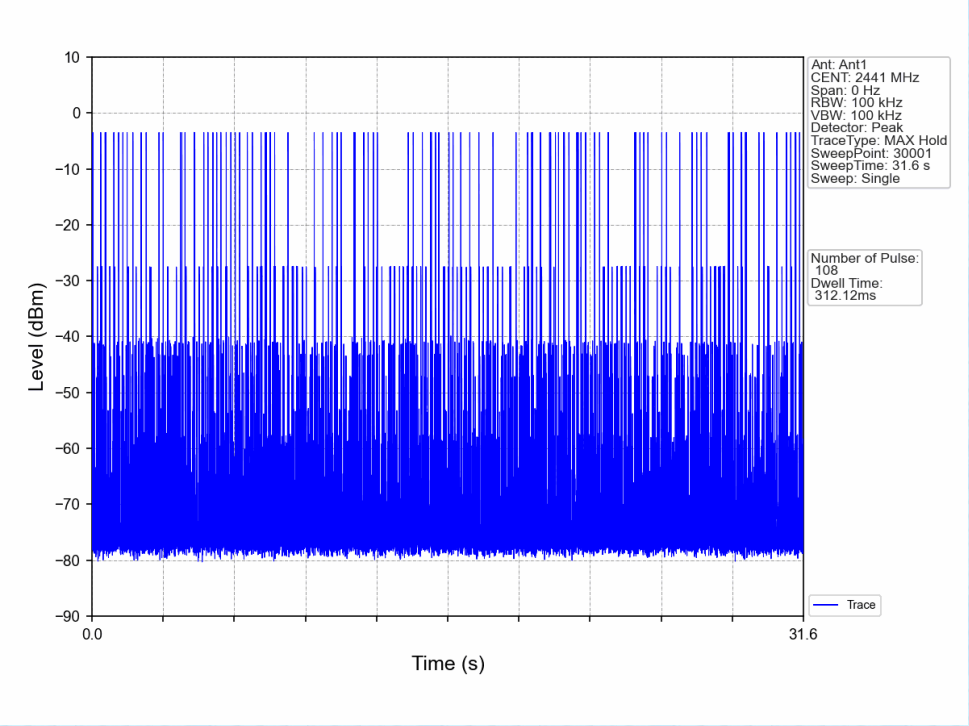
π/4DQPSK_2DH3_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

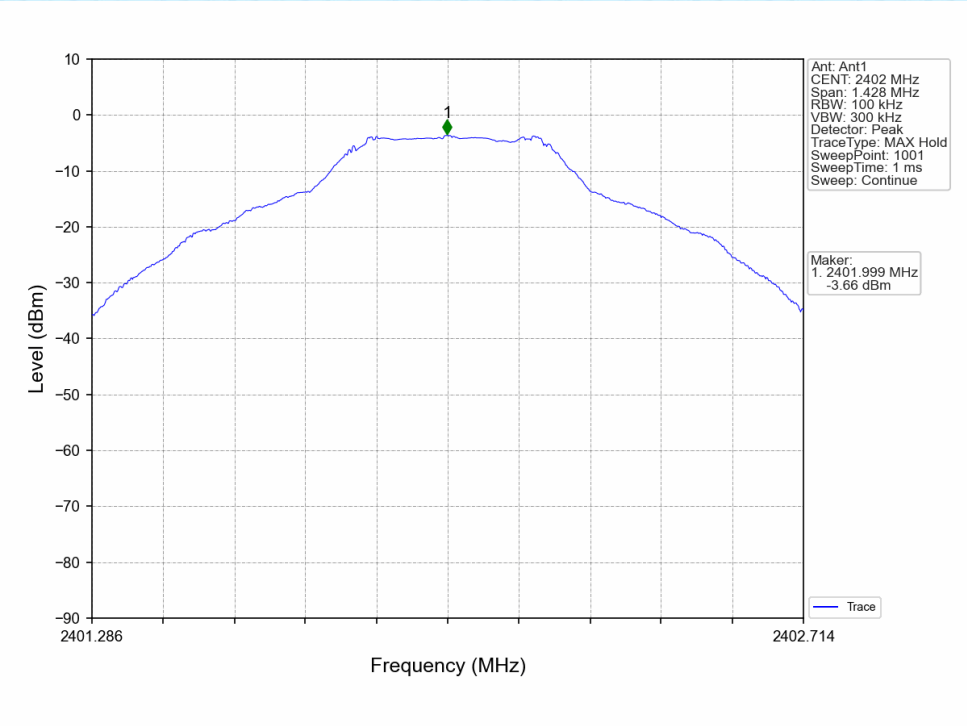
6.1 Ref

6.1.1 Test Result

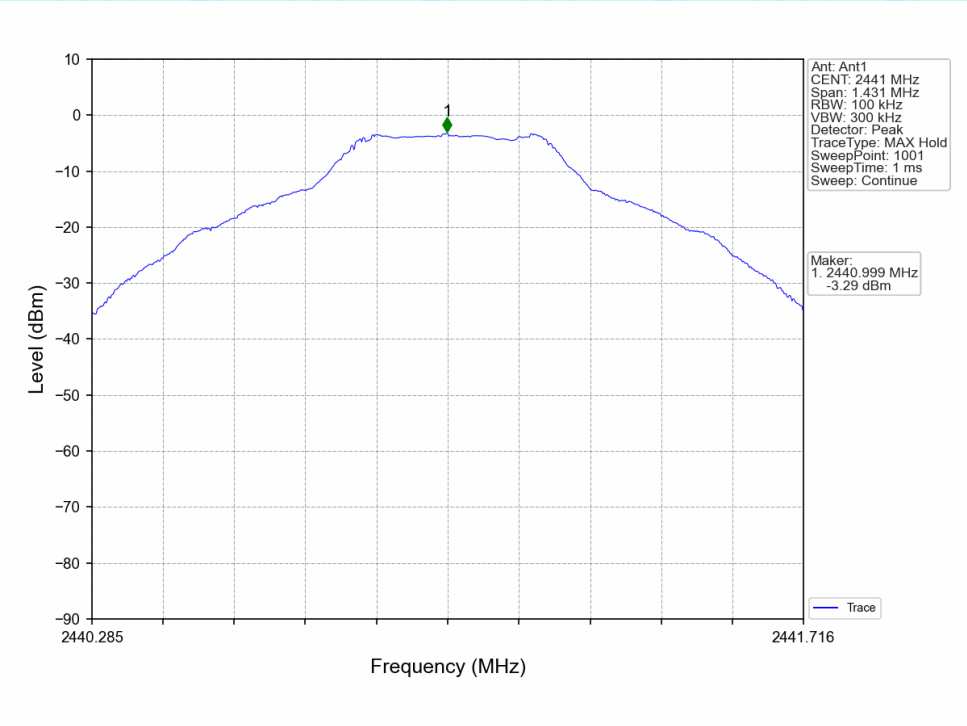
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-3.66
		2441	DH5	1	-3.29
		2480	DH5	1	-3.06
π/4DQPSK	SISO	2402	2DH5	1	-3.54
		2441	2DH5	1	-3.11
		2480	2DH5	1	-2.86
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.					

6.1.2 Test Graph

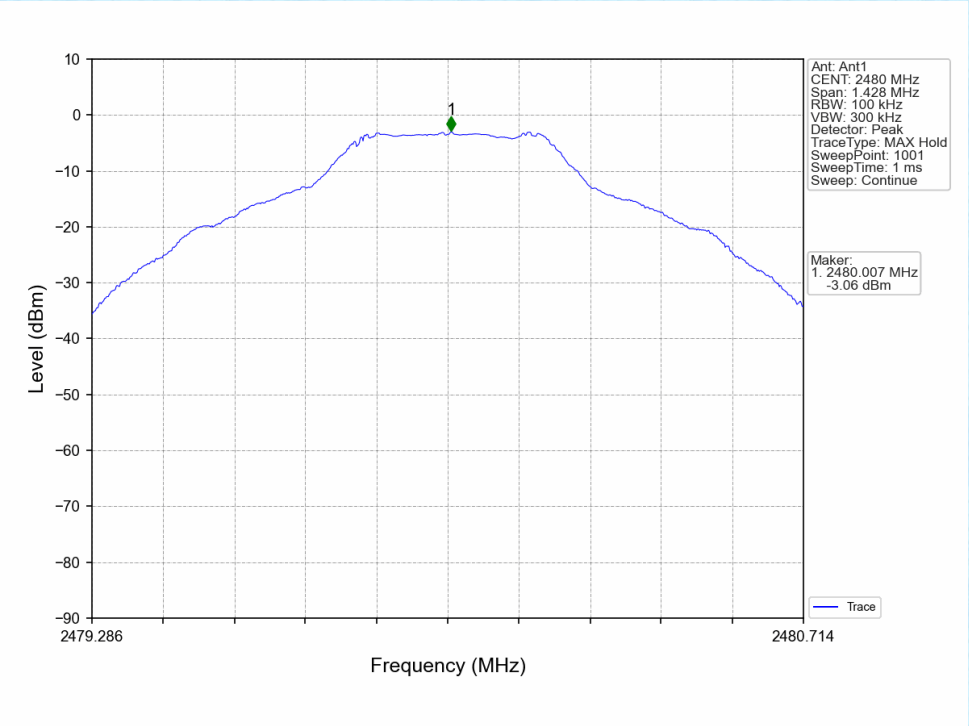
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



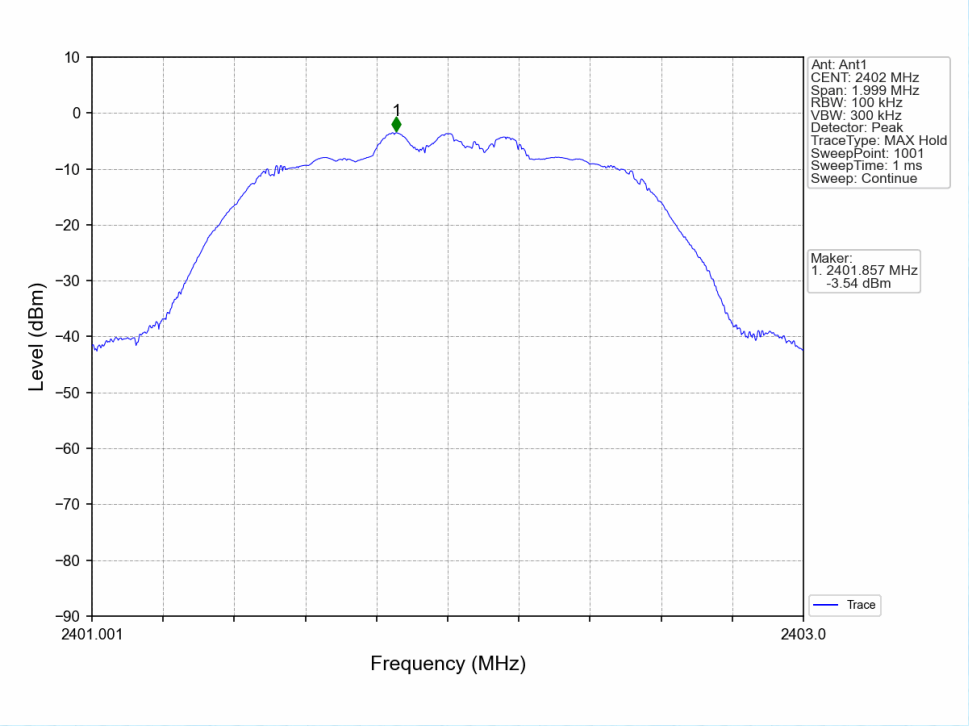
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



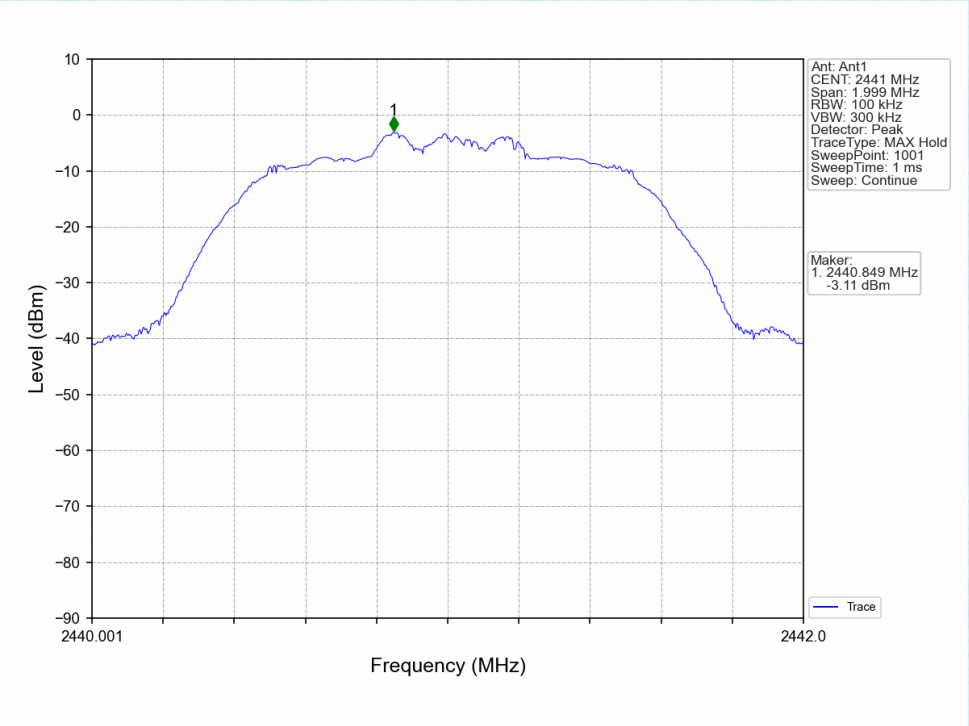
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



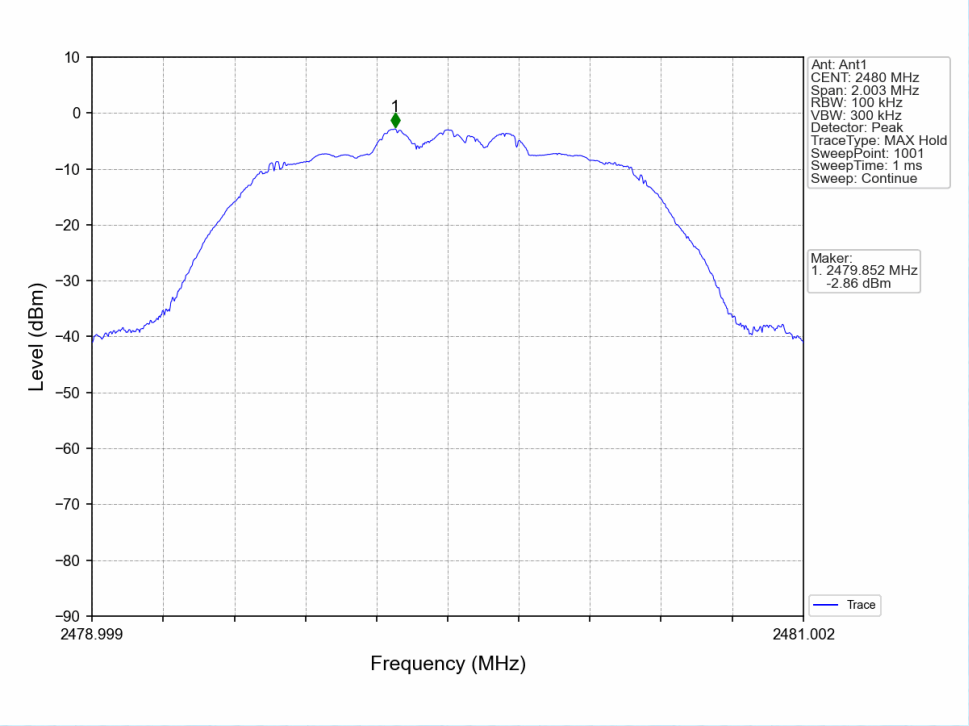
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



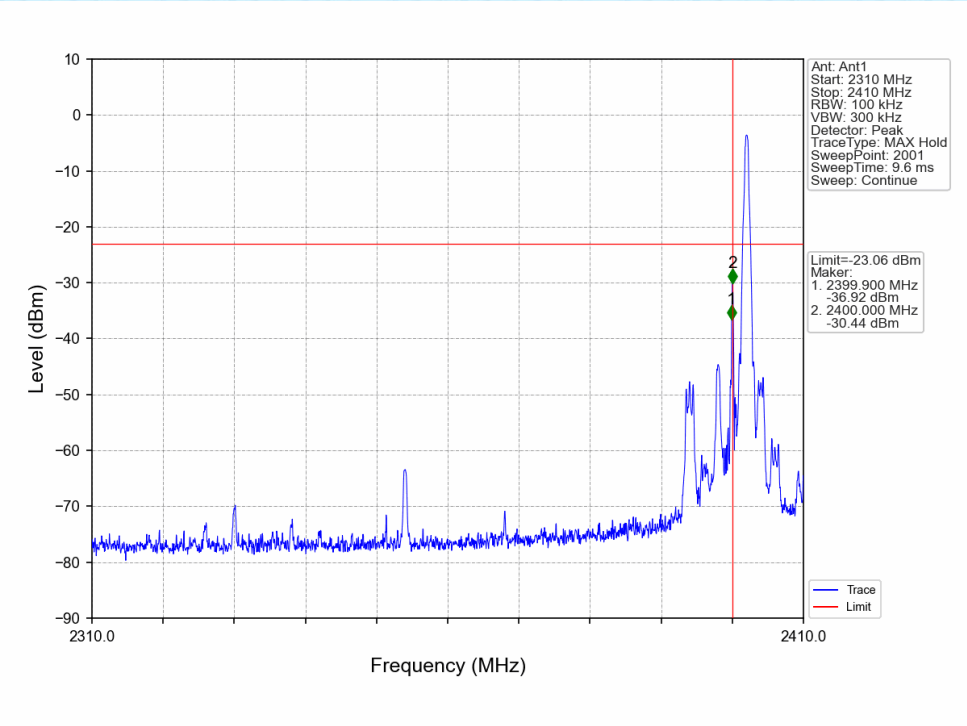
6.2 CSE

6.2.1 Test Result

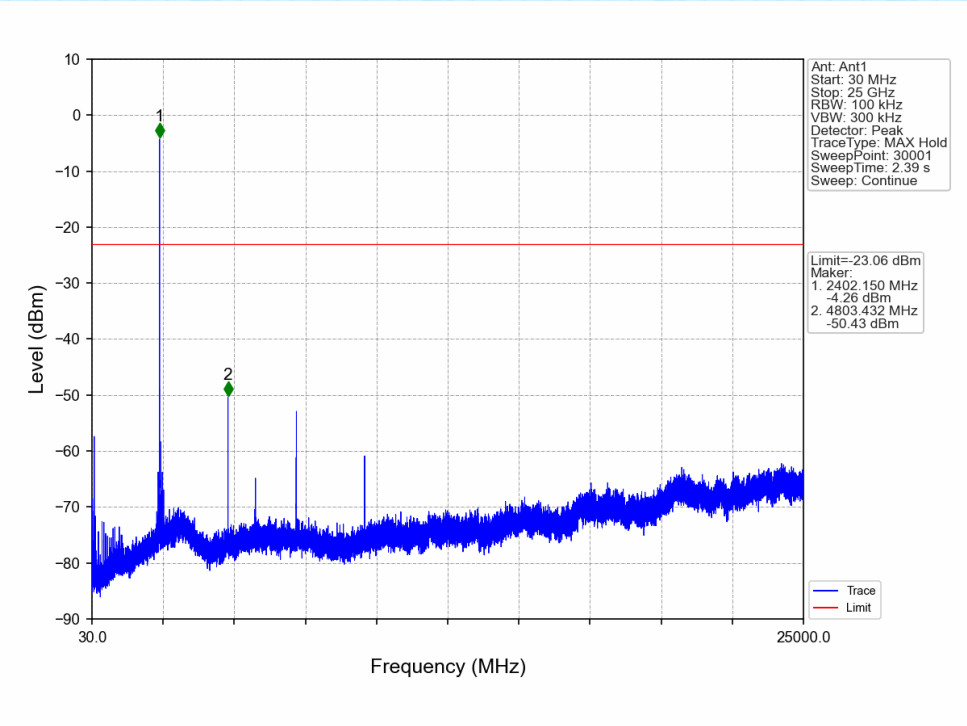
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-3.06	-23.06	Pass
		2441	DH5	1	-3.06	-23.06	Pass
		2480	DH5	1	-3.06	-23.06	Pass
		HOPP	DH5	1	-3.06	-23.06	Pass
π/4DQPSK	SISO	2402	2DH5	1	-2.86	-22.86	Pass
		2441	2DH5	1	-2.86	-22.86	Pass
		2480	2DH5	1	-2.86	-22.86	Pass
		HOPP	2DH5	1	-2.86	-22.86	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.							

6.2.2 Test Graph

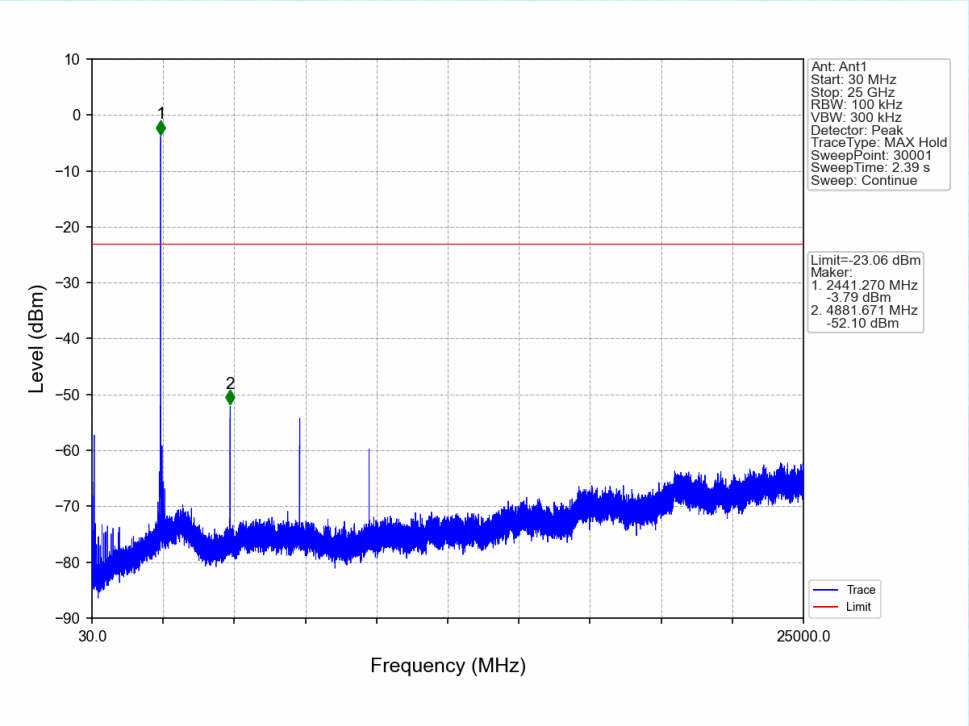
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



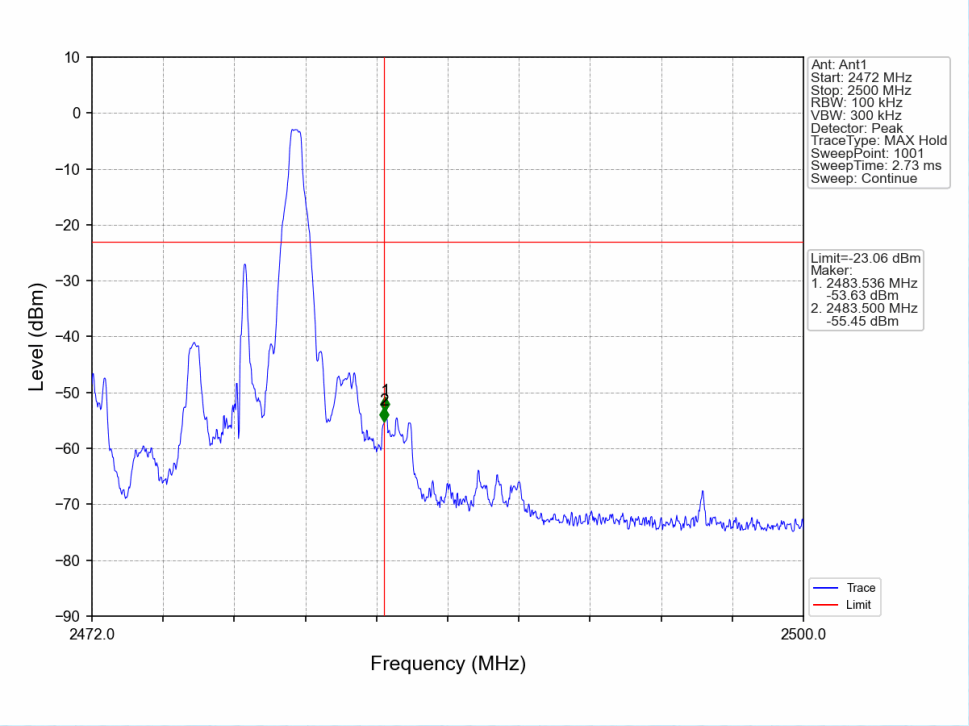
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



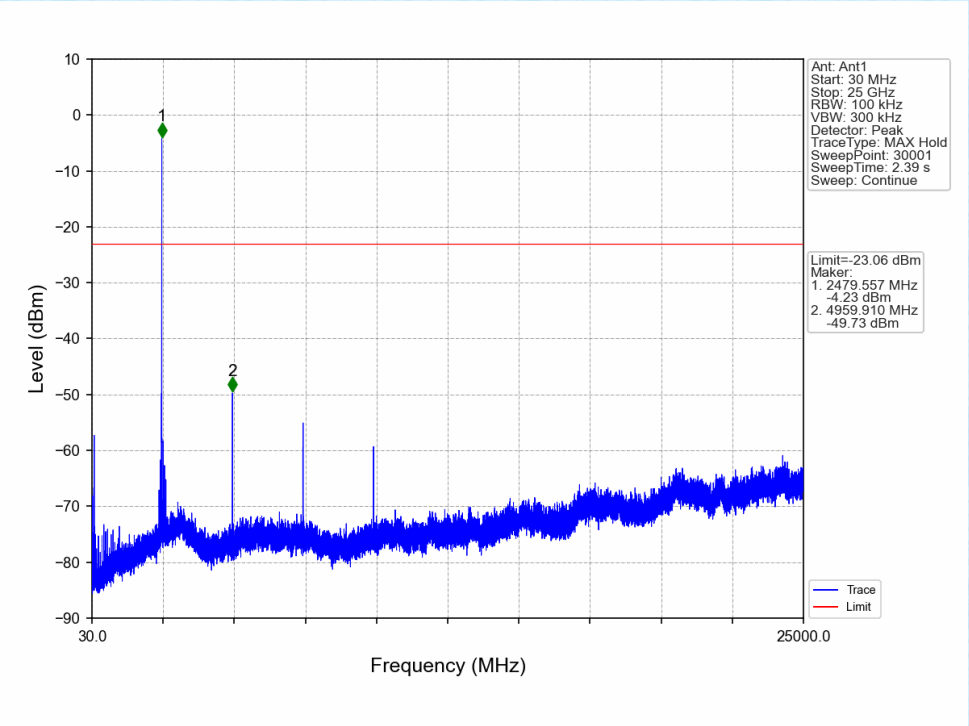
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



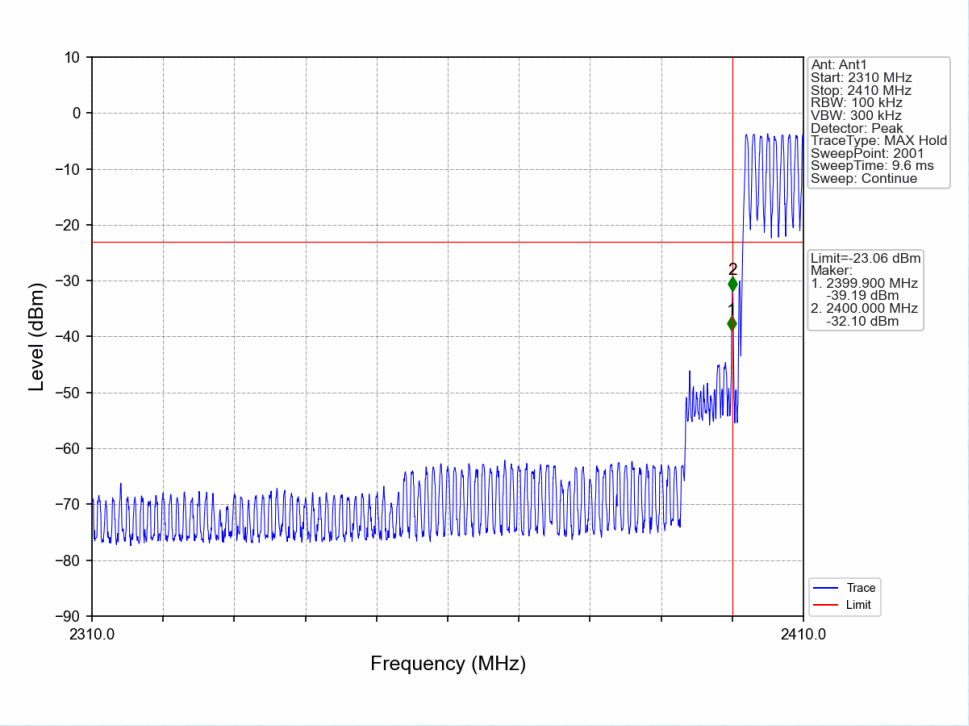
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



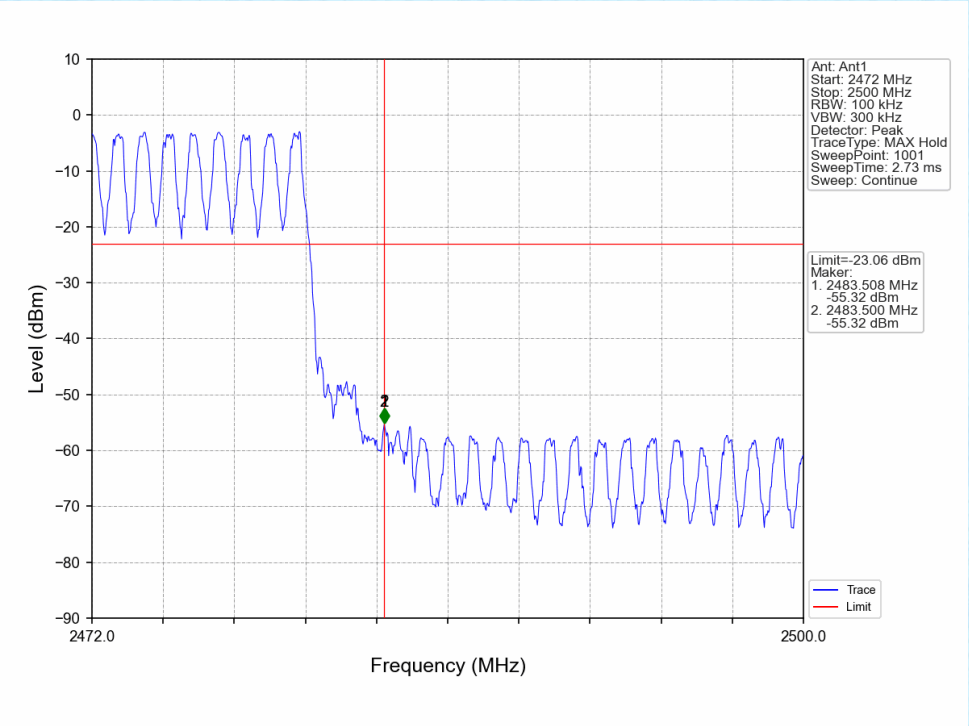
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



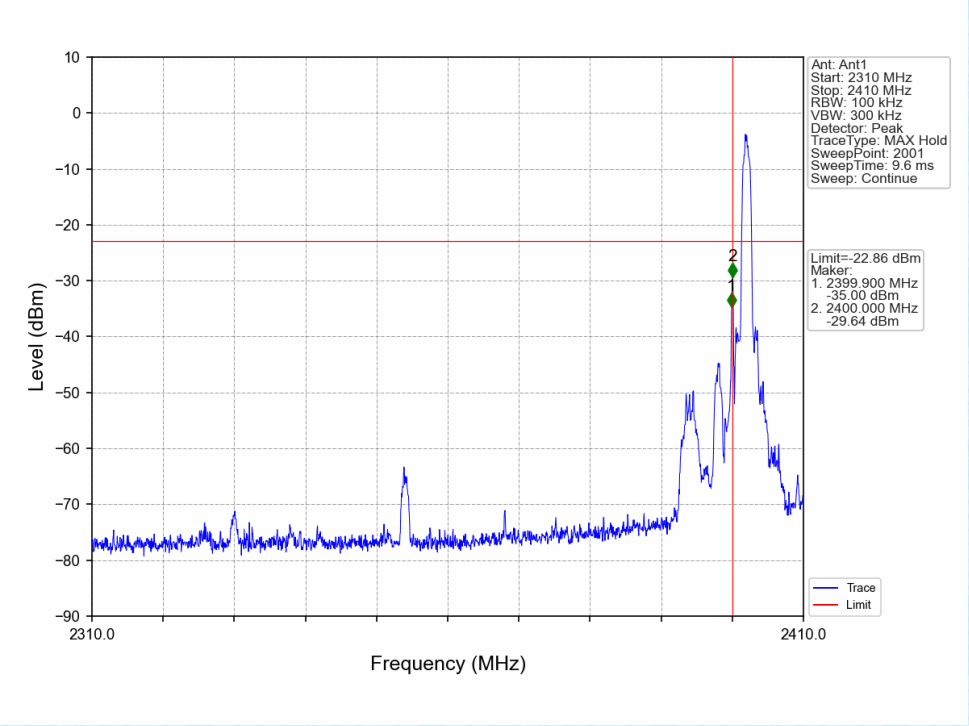
GFSK_DH5_HOPP_Ant1_NTNV



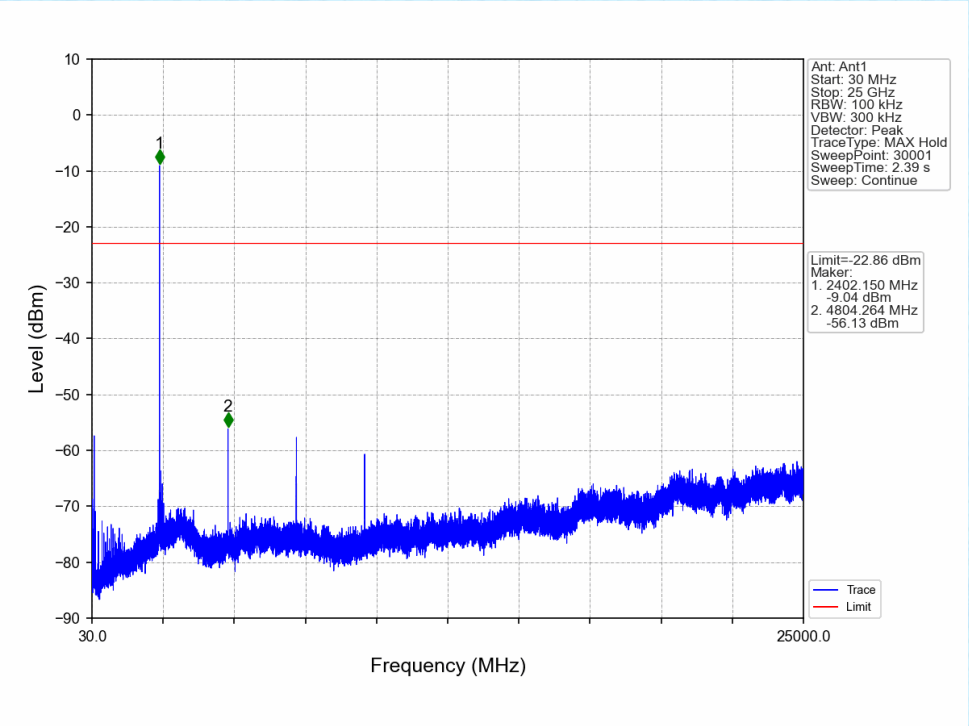
GFSK_DH5_HOPP_Ant1_NTNV



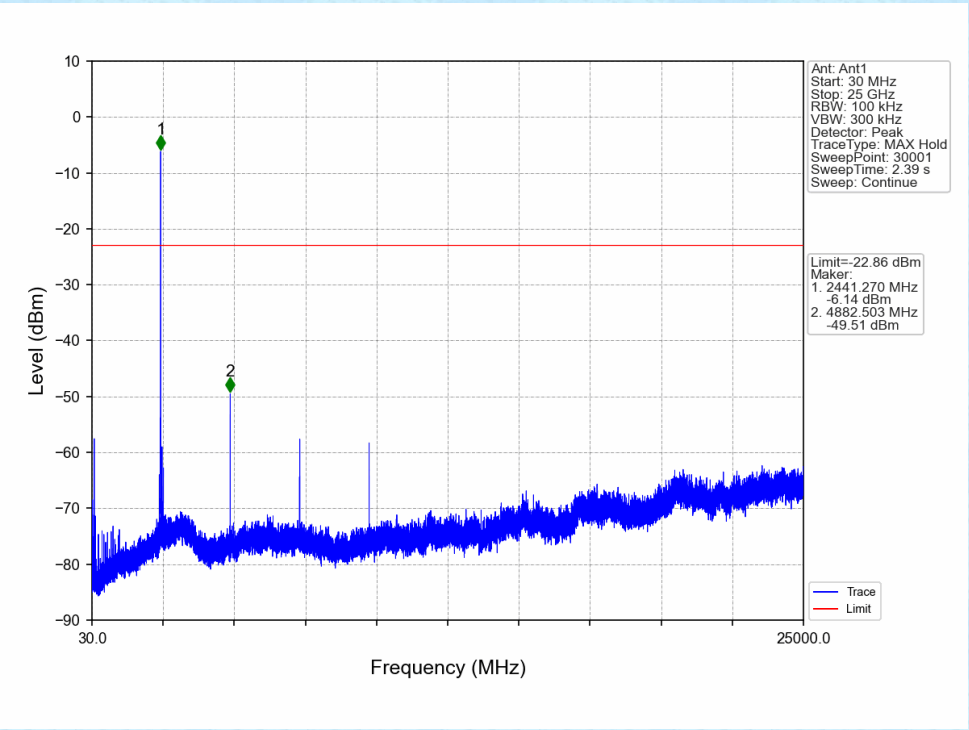
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



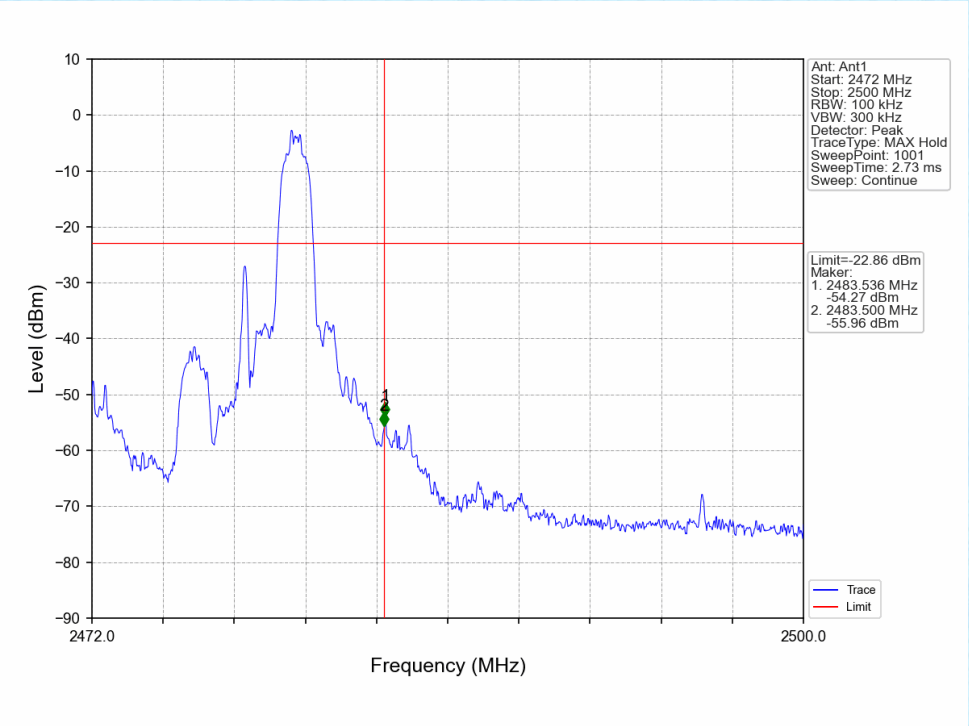
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



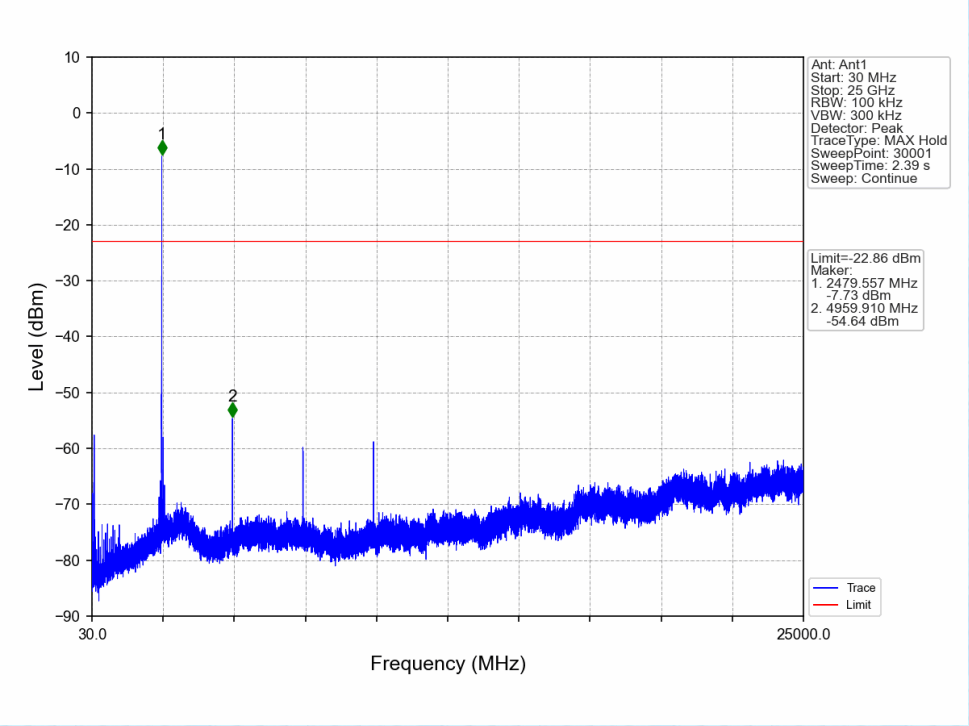
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



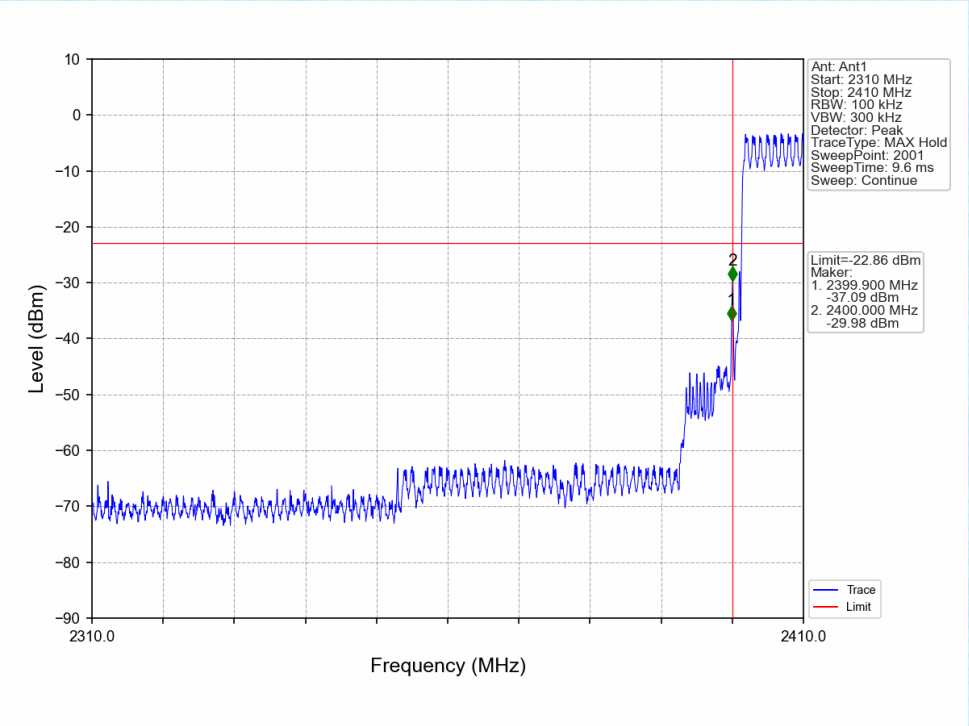
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



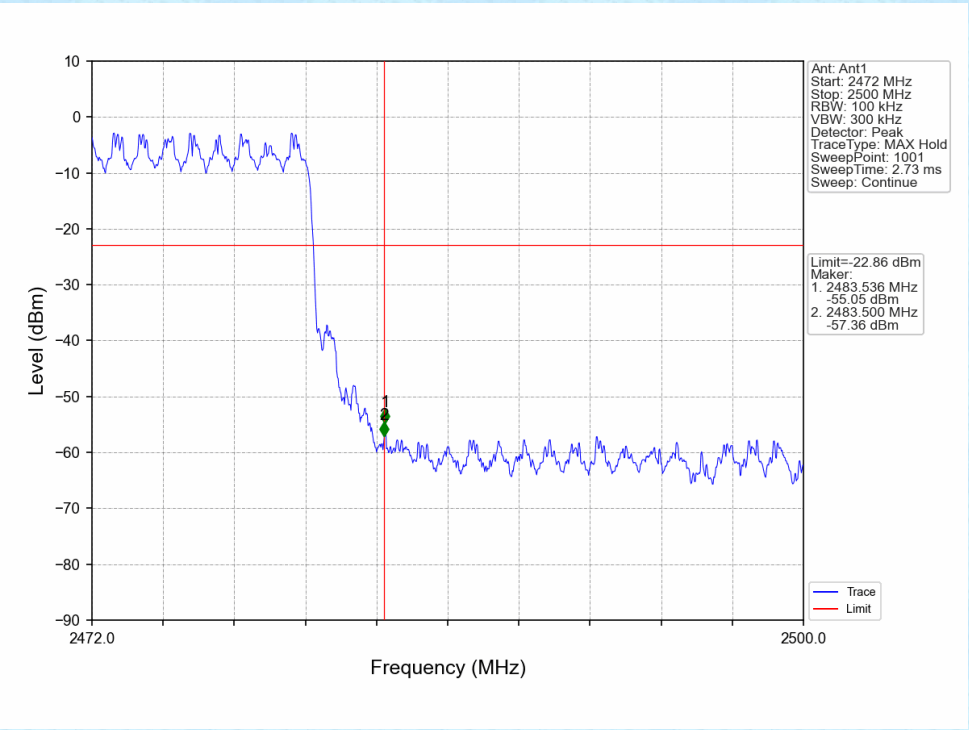
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



------End------