

Appendix RF test data for BT

1. Bandwidth

1.1 Test Result

1.1.1 OBW

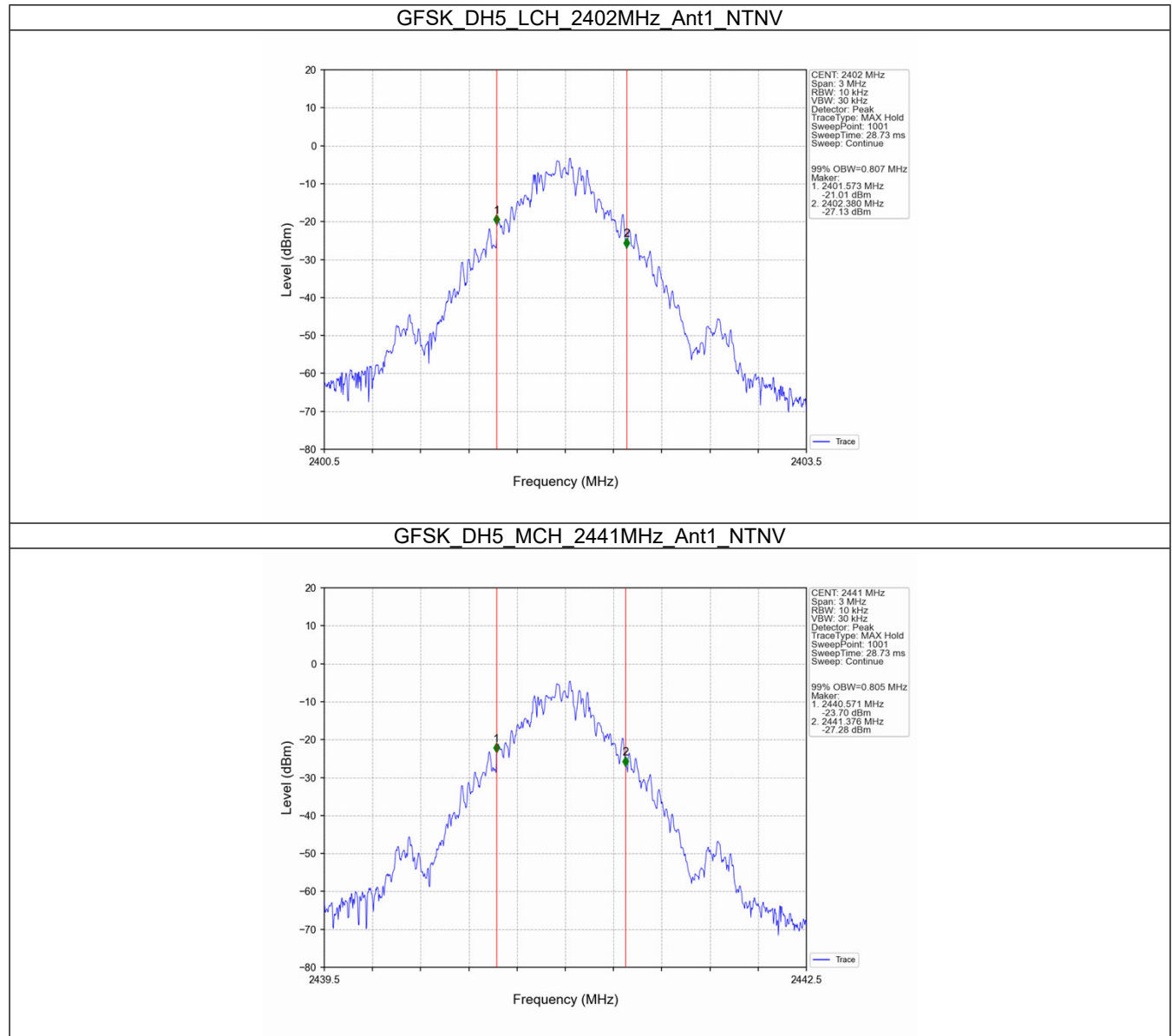
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.807	/	Pass
		2441	DH5	1	0.805	/	Pass
		2480	DH5	1	0.803	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.160	/	Pass
		2441	2DH5	1	1.163	/	Pass
		2480	2DH5	1	1.158	/	Pass
8DPSK	SISO	2402	3DH5	1	1.173	/	Pass
		2441	3DH5	1	1.177	/	Pass
		2480	3DH5	1	1.166	/	Pass

1.1.2 20dB BW

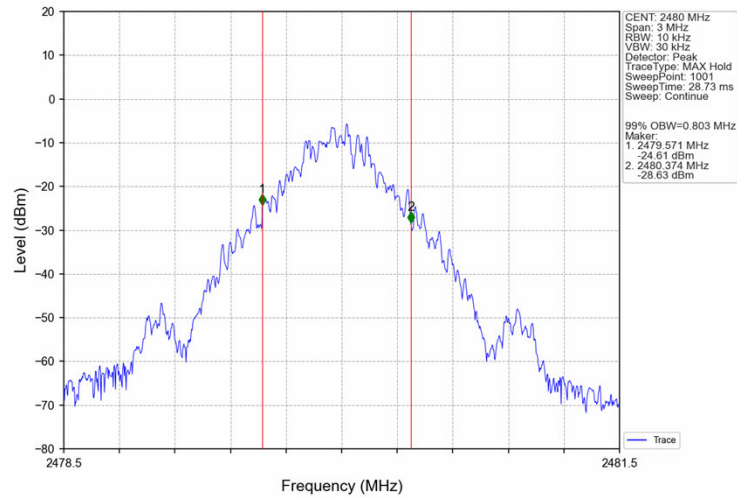
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.881	/	Pass
		2441	DH5	1	0.883	/	Pass
		2480	DH5	1	0.883	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.313	/	Pass
		2441	2DH5	1	1.305	/	Pass
		2480	2DH5	1	1.307	/	Pass
8DPSK	SISO	2402	3DH5	1	1.277	/	Pass
		2441	3DH5	1	1.276	/	Pass
		2480	3DH5	1	1.286	/	Pass

1.2 Test Graph

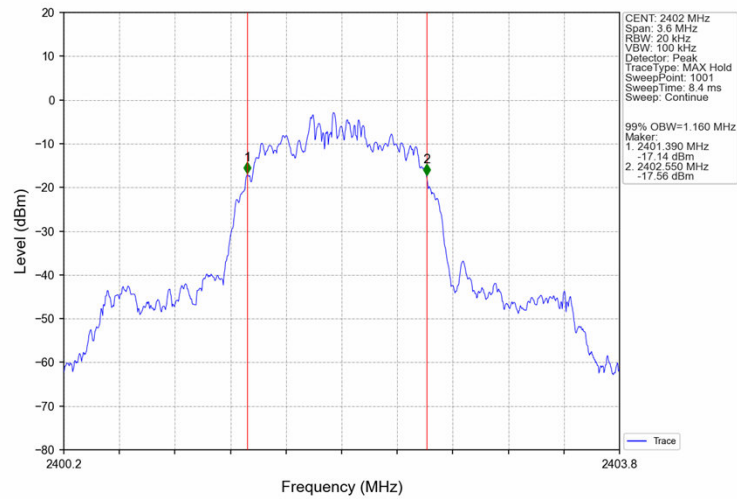
1.2.1 OBW



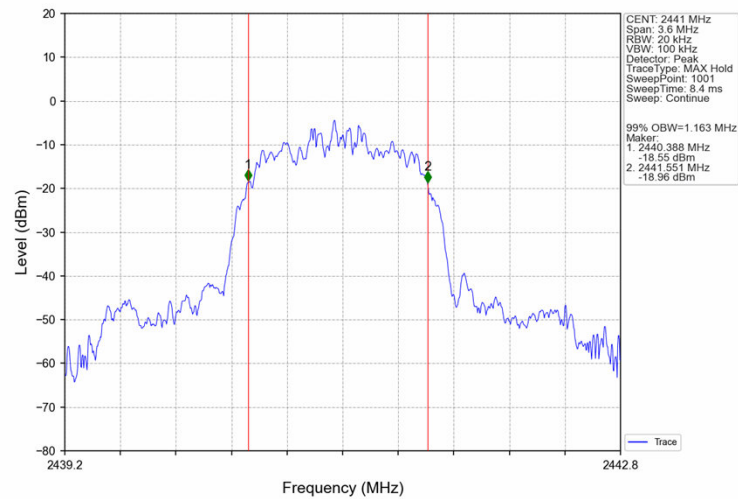
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



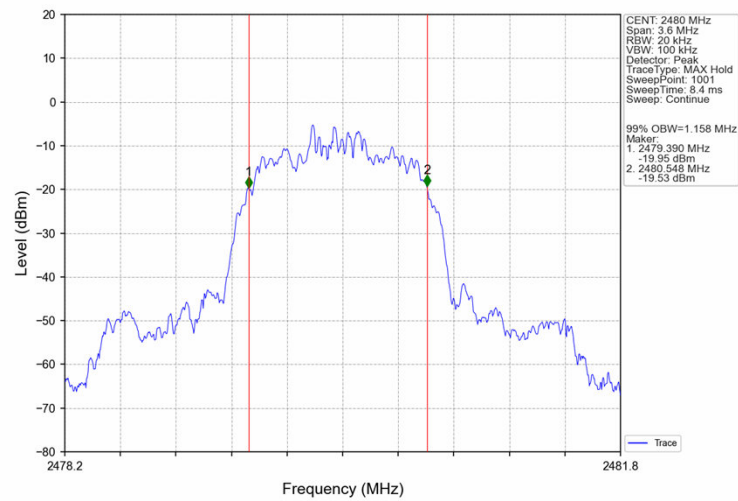
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



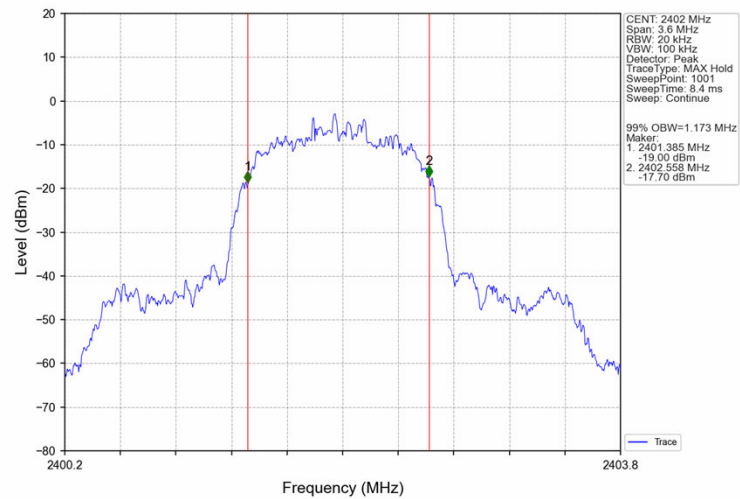
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



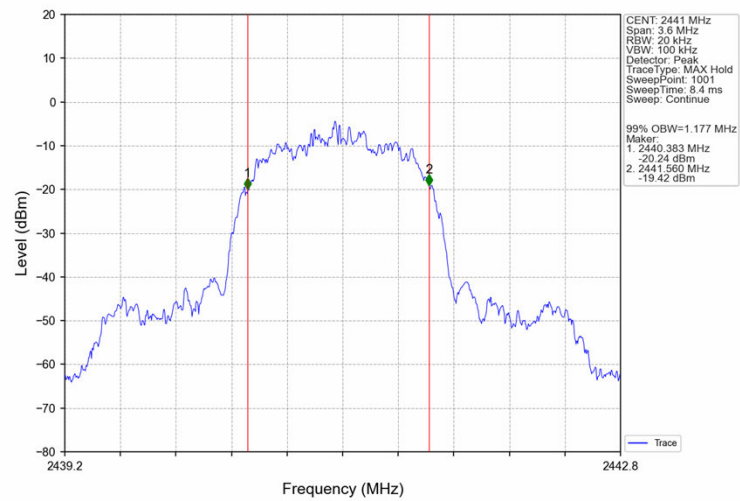
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



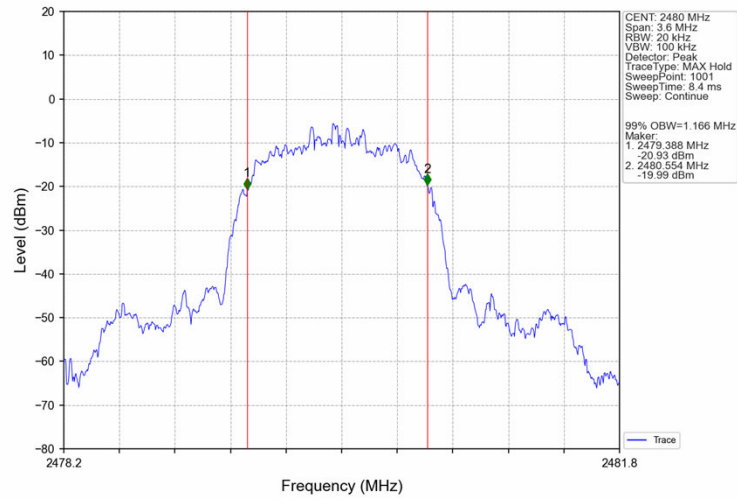
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

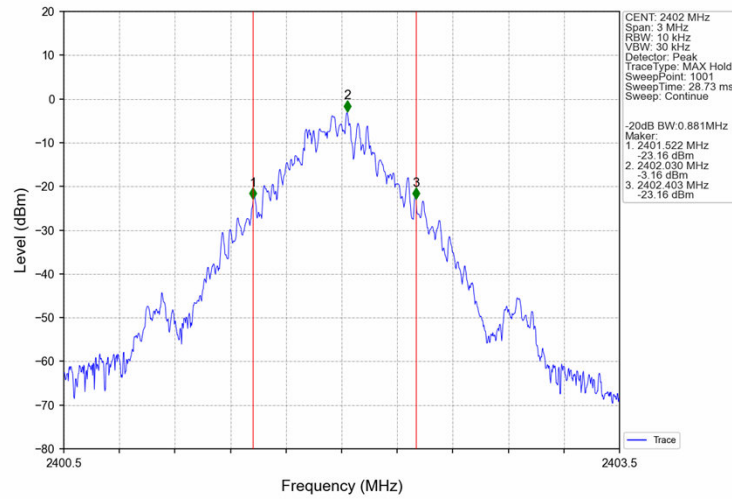


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

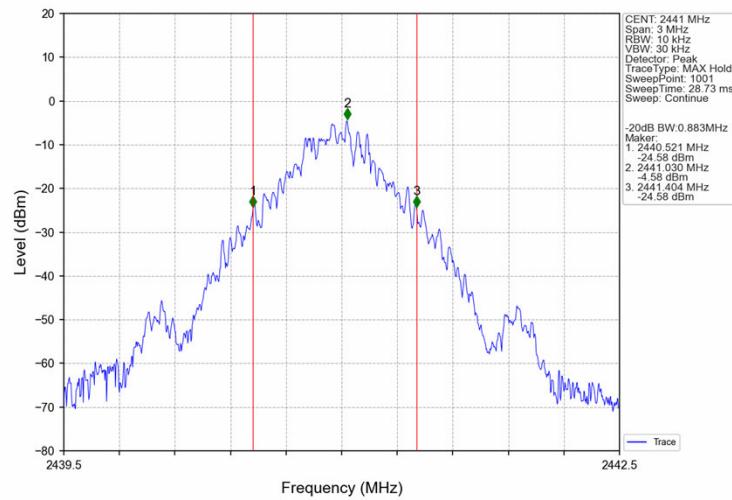


1.2.2 20dB BW

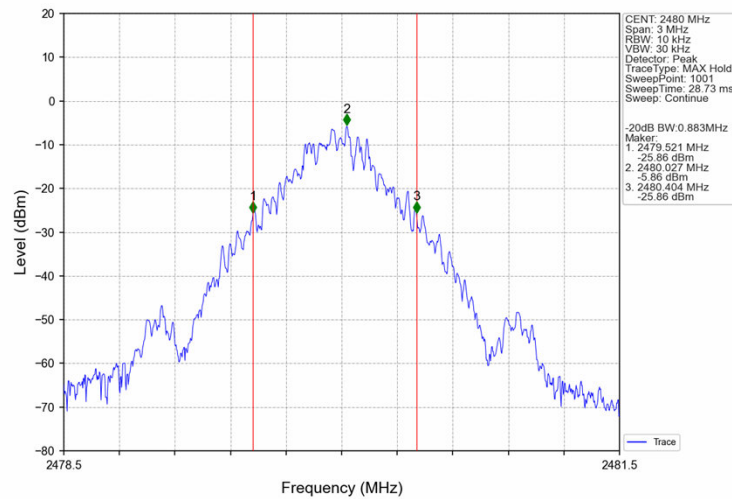
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



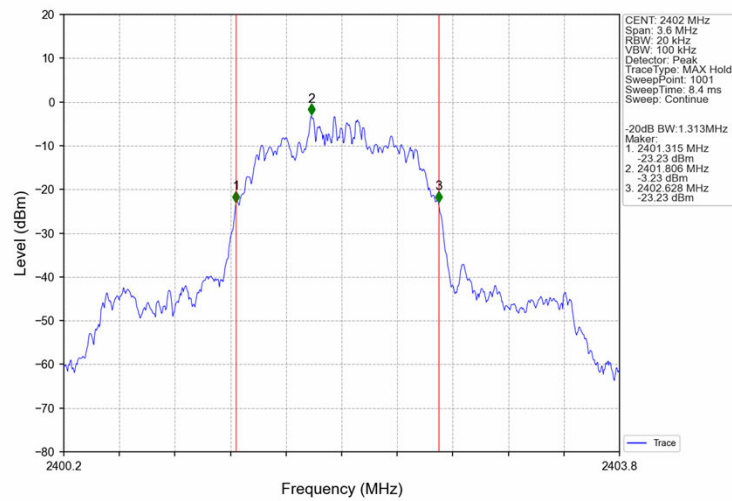
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



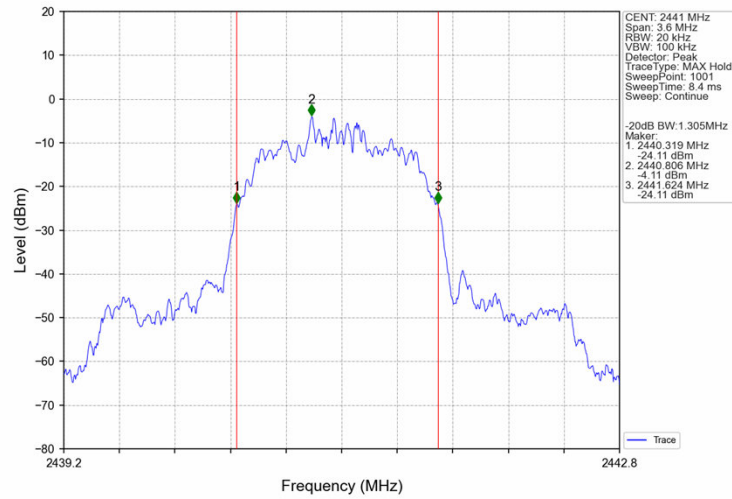
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



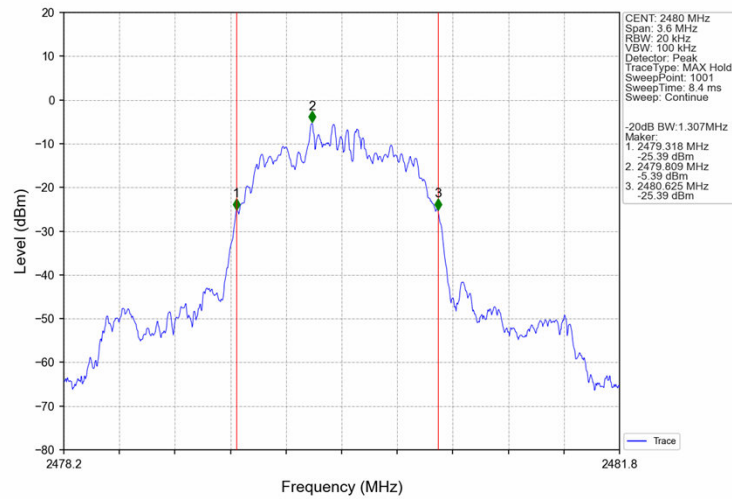
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



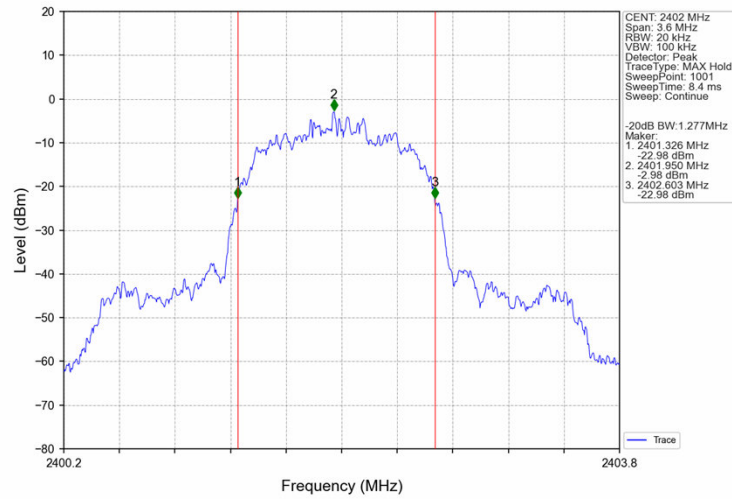
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



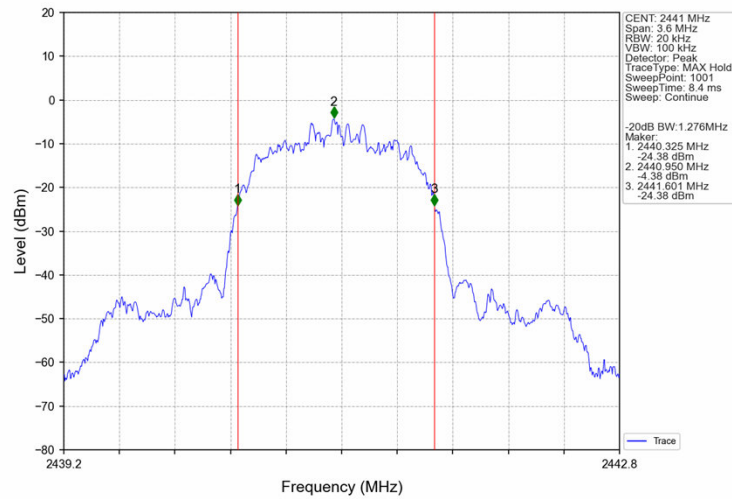
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



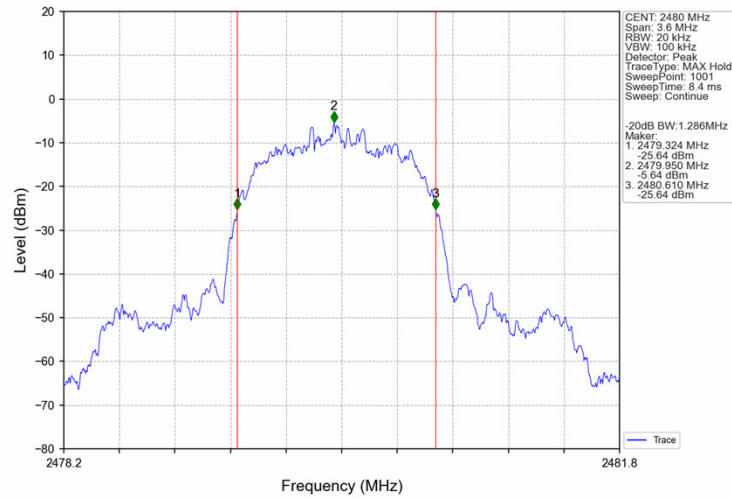
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

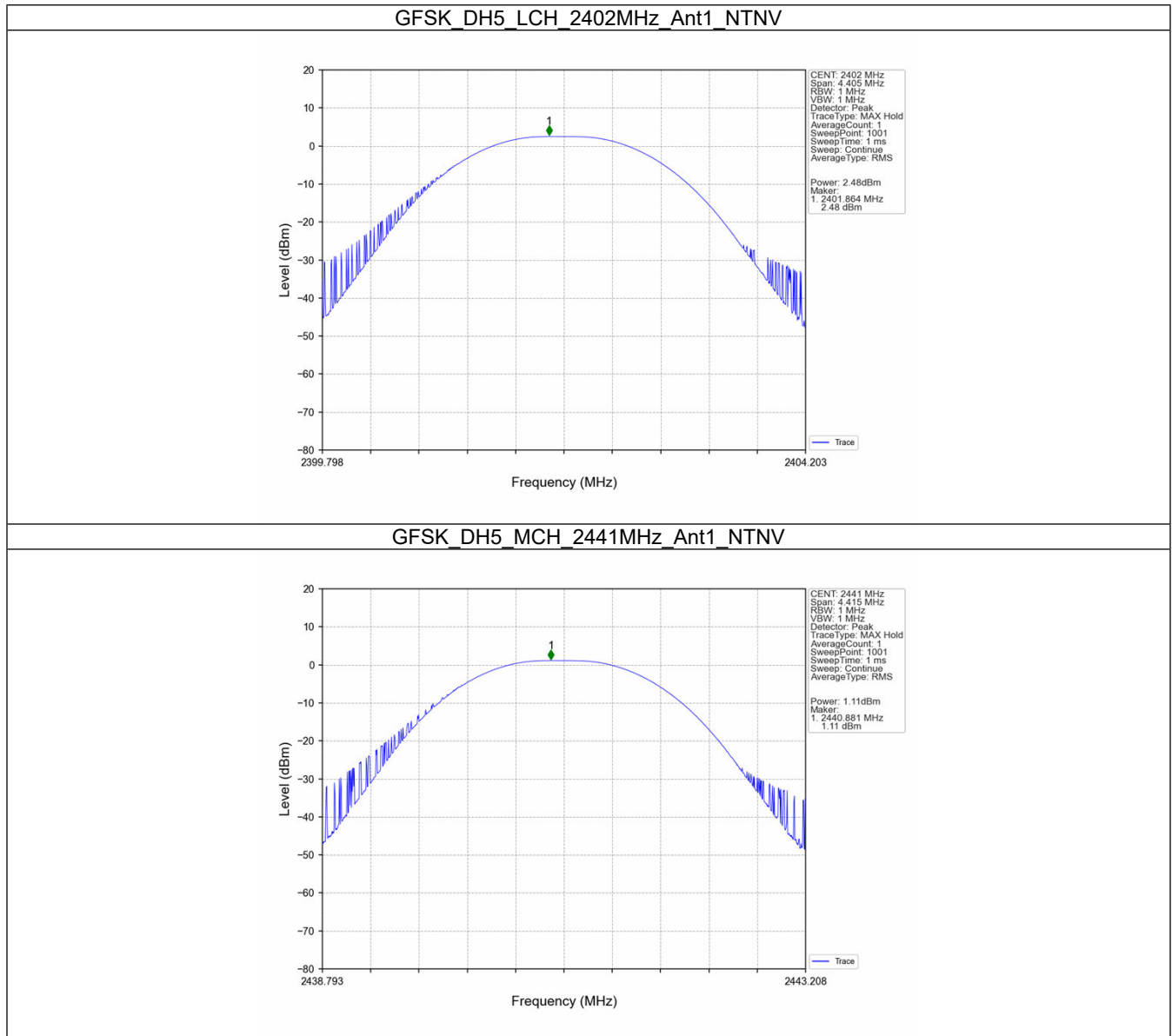
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.48	≤ 30	Pass
		2441	DH5	1.11	≤ 30	Pass
		2480	DH5	-0.12	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.27	≤ 20.97	Pass
		2441	2DH5	1.90	≤ 20.97	Pass
		2480	2DH5	0.70	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	3.96	≤ 20.97	Pass
		2441	3DH5	2.54	≤ 20.97	Pass
		2480	3DH5	1.35	≤ 20.97	Pass

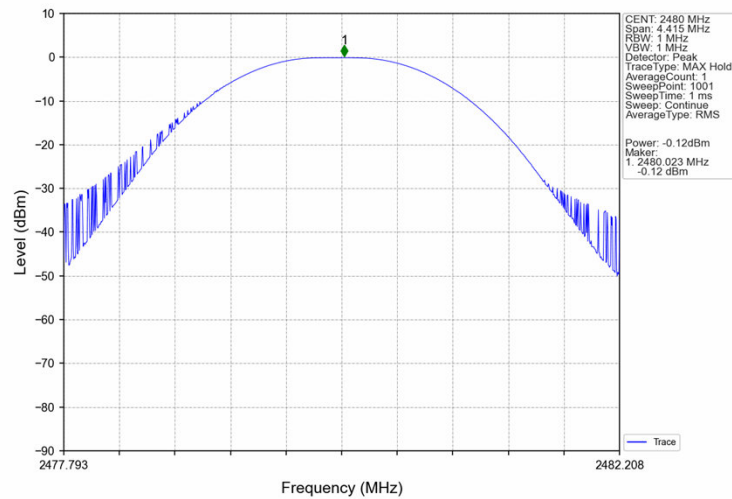
Note1: Antenna Gain: Ant1: -0.58dBi;

2.2 Test Graph

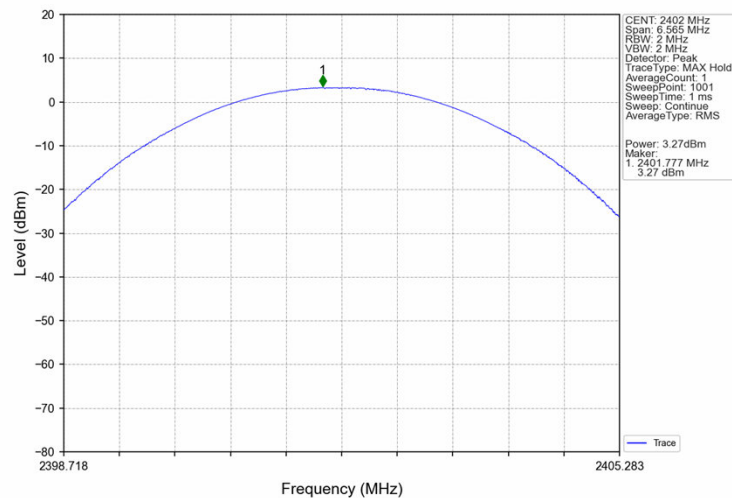
2.2.1 Power



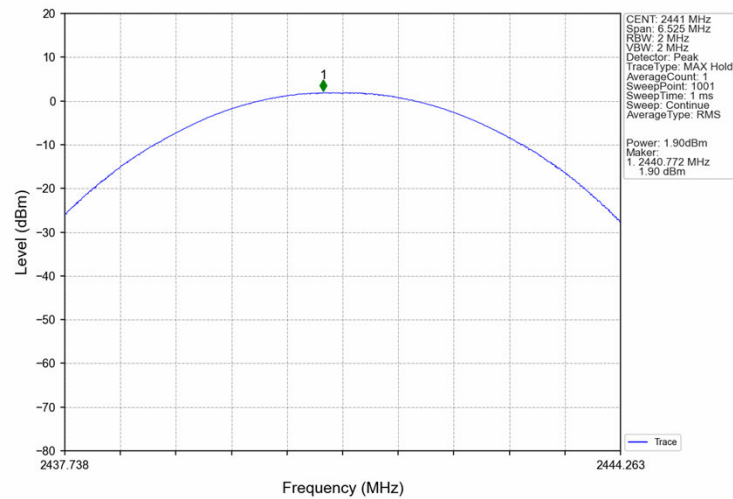
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



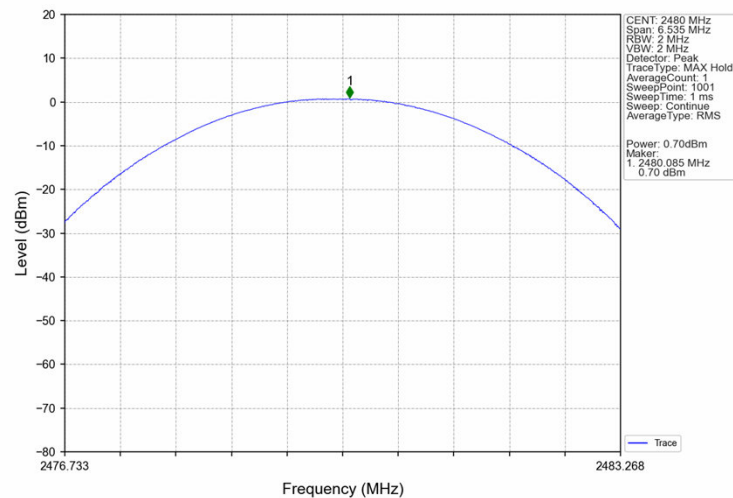
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



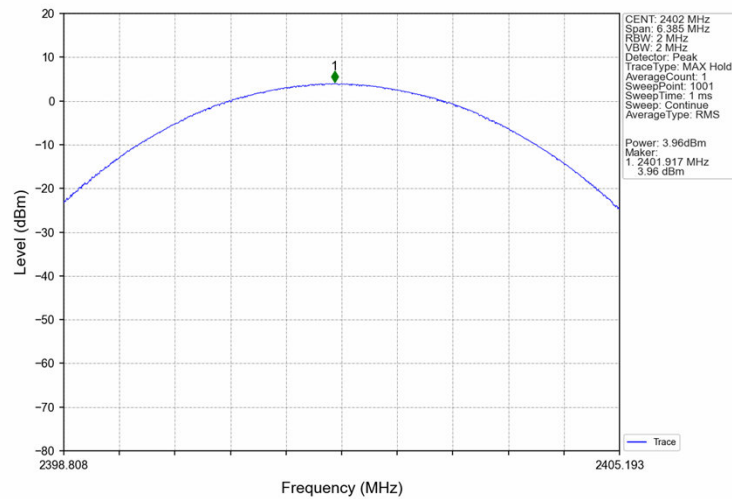
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



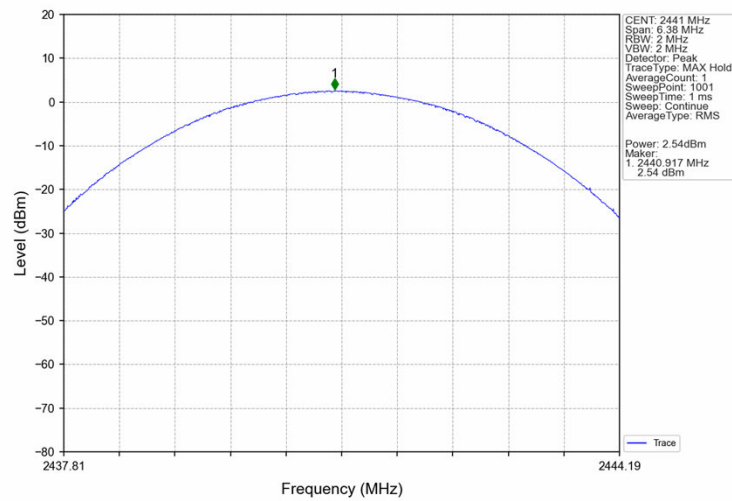
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



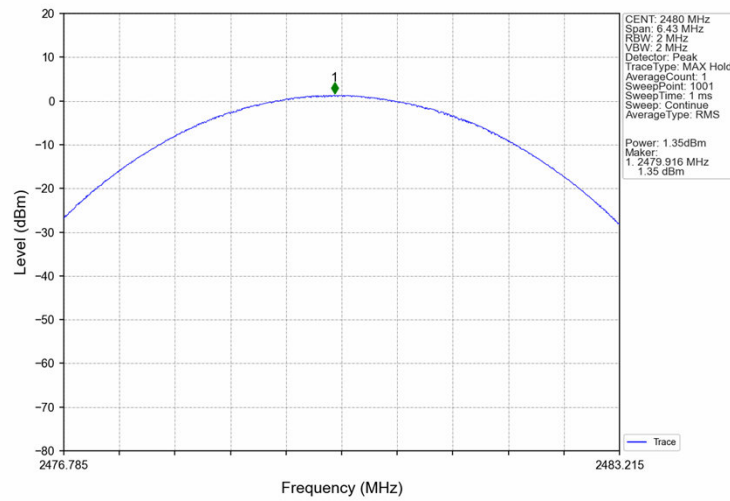
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Carrier Frequency Separation

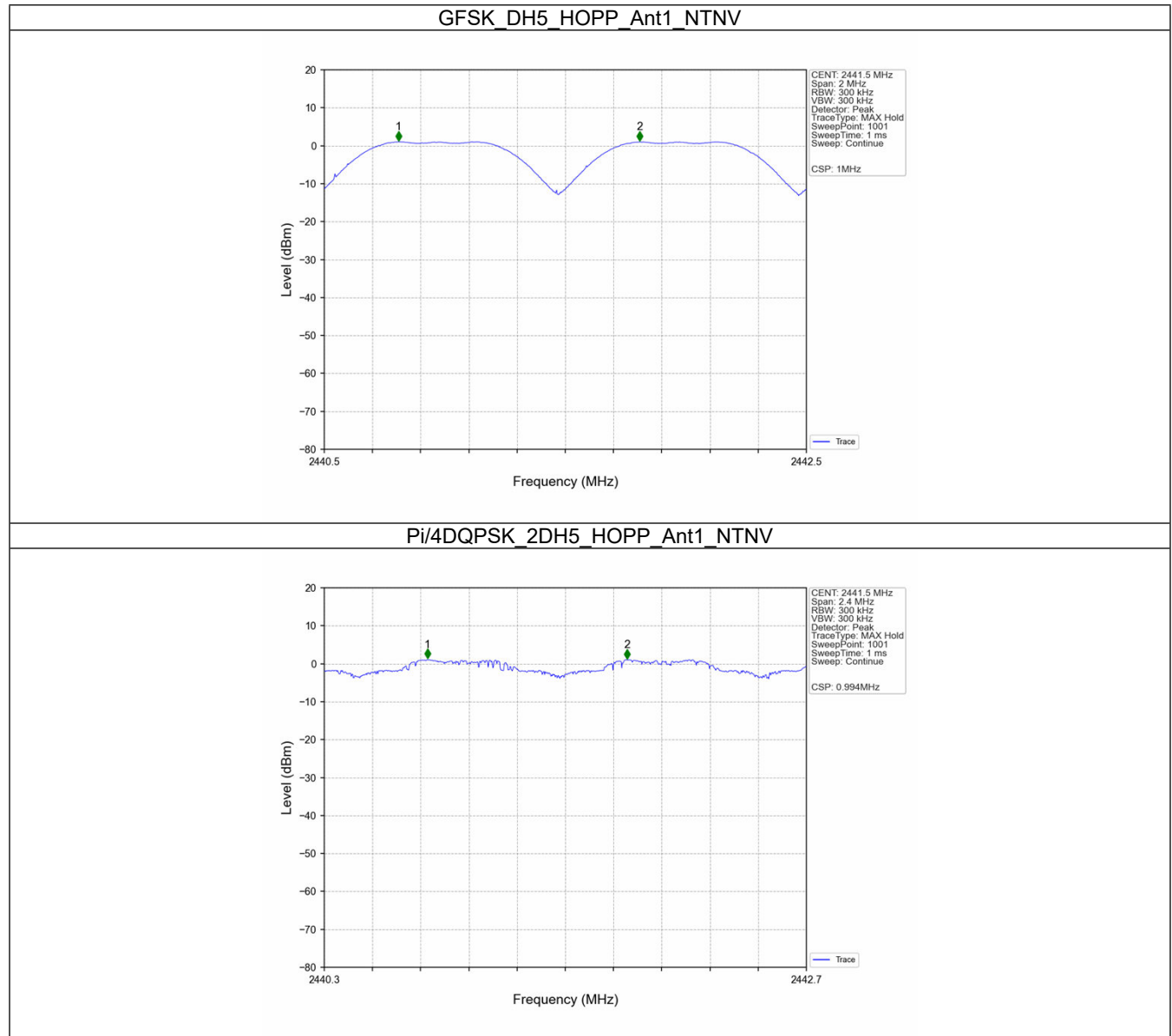
3.1 Test Result

3.1.1 Ant1

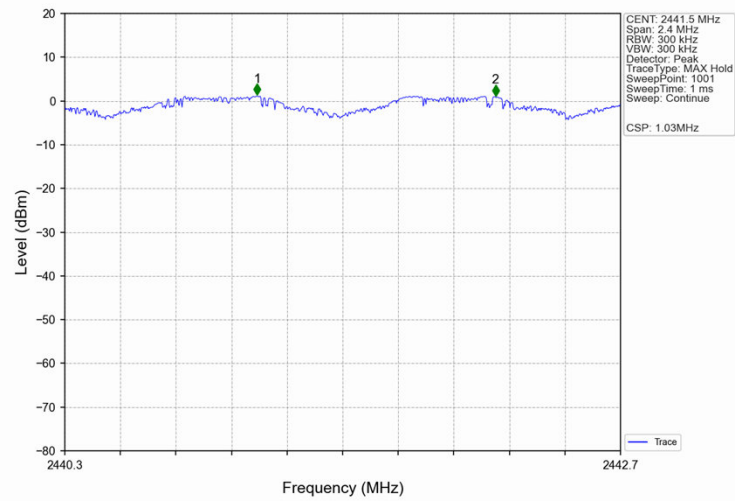
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.883	≥ 0.883	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.994	1.313	≥ 0.875	Pass
8DPSK	SISO	HOPP	3DH5	1.030	1.286	≥ 0.857	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Number of Hopping Frequencies

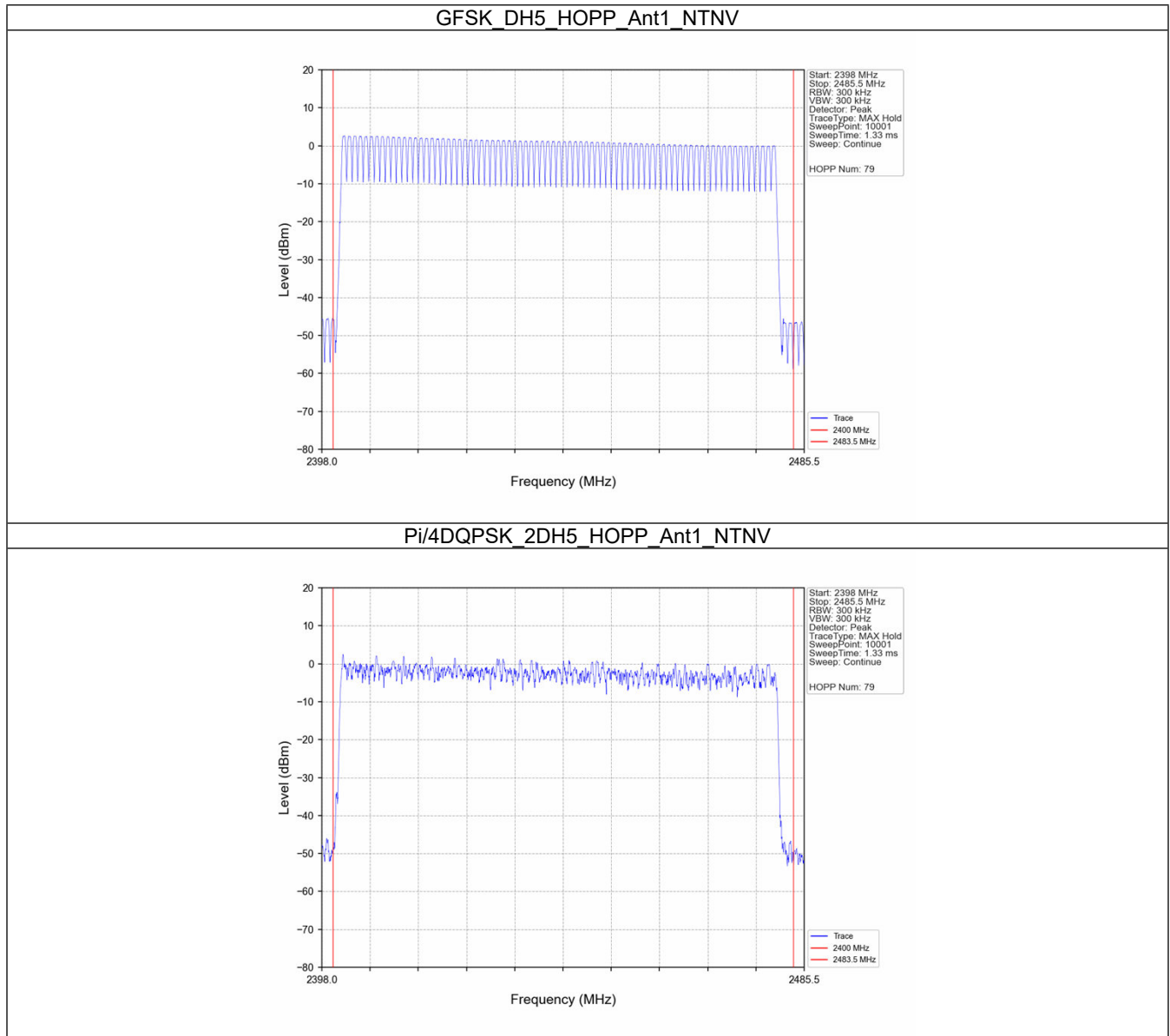
4.1 Test Result

4.1.1 HoppNum

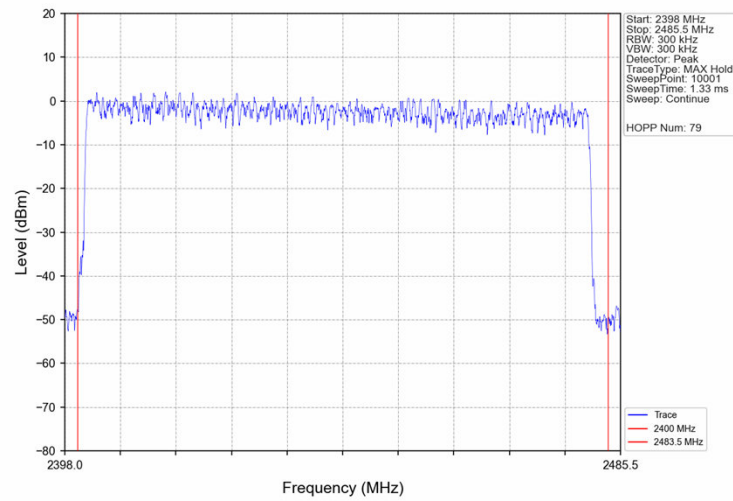
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

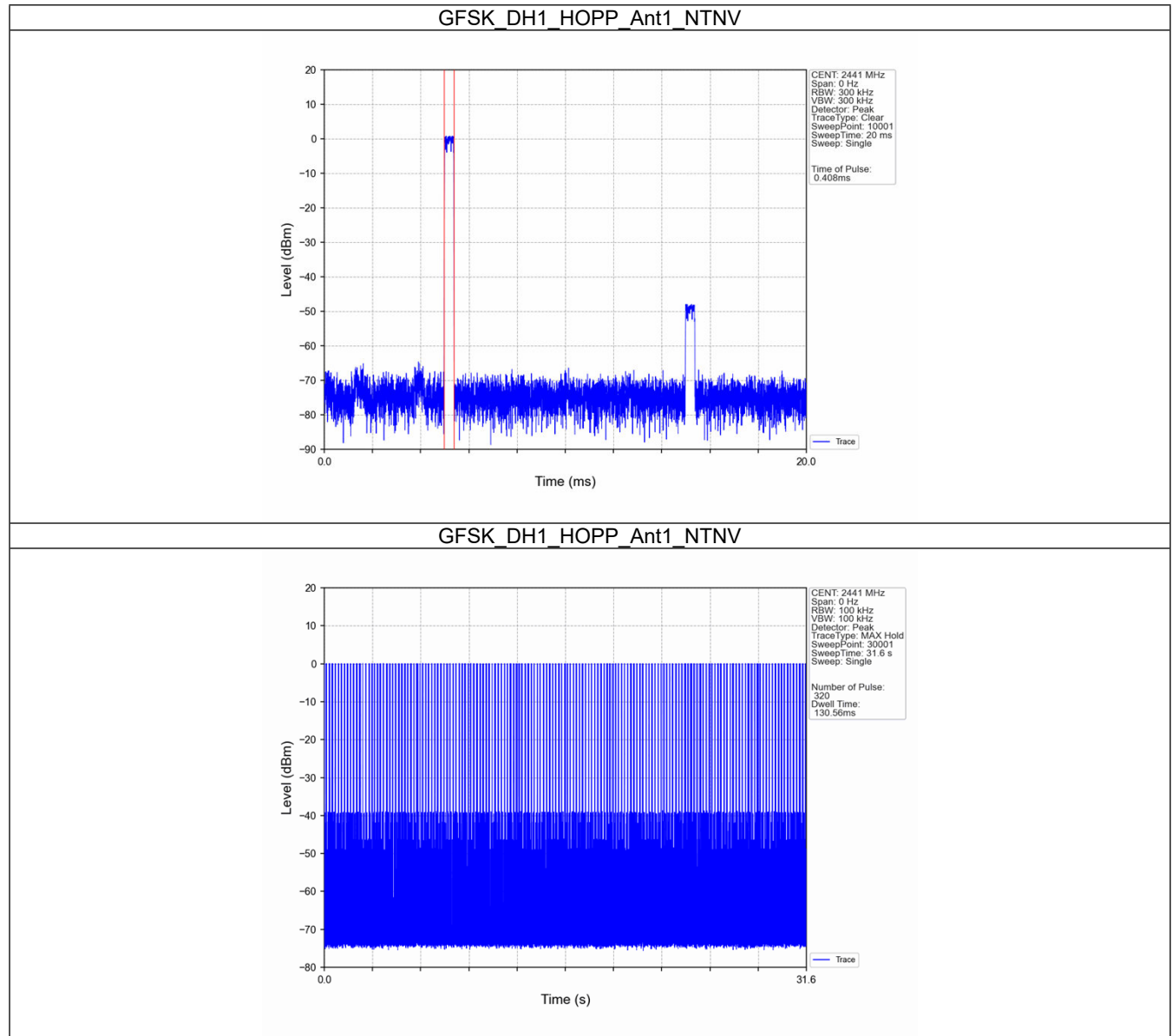
5.1 Test Result

5.1.1 Ant1

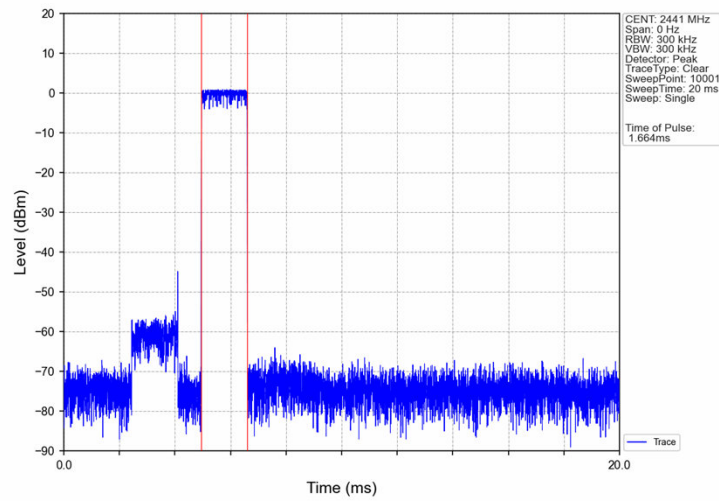
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.408	31.600	320	130.560	<=400	Pass
			DH3	1.664	31.600	162	269.568	<=400	Pass
			DH5	2.906	31.600	90	261.540	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.418	31.600	320	133.760	<=400	Pass
			2DH3	1.670	31.600	163	272.210	<=400	Pass
			2DH5	2.920	31.600	114	332.880	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.412	31.600	320	131.840	<=400	Pass
			3DH3	1.662	31.600	157	260.934	<=400	Pass
			3DH5	2.918	31.600	109	318.062	<=400	Pass

5.2 Test Graph

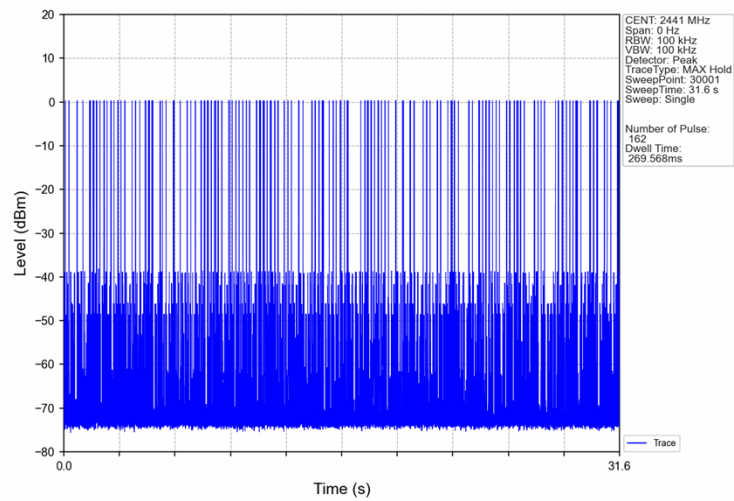
5.2.1 Ant1



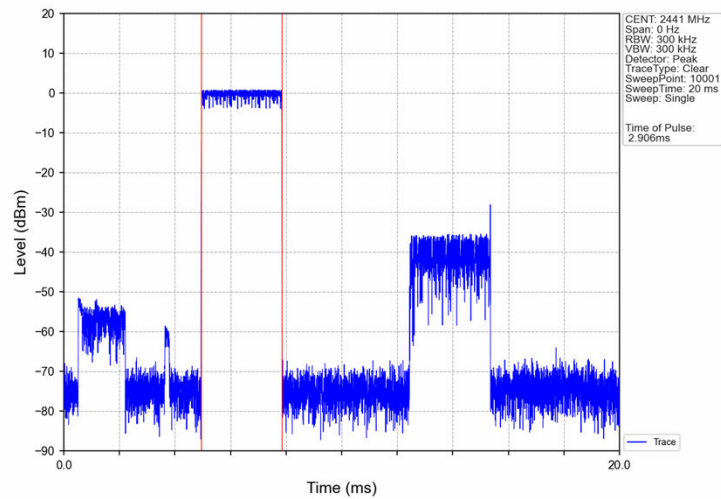
GFSK_DH3_HOPP_Ant1_NTNV



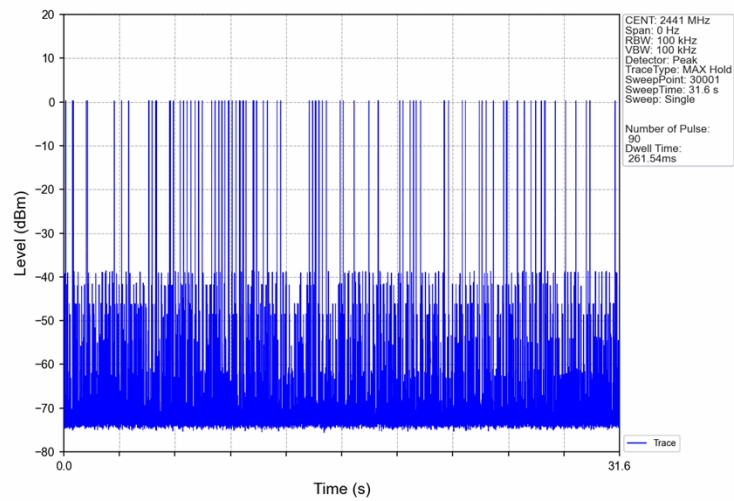
GFSK_DH3_HOPP_Ant1_NTNV



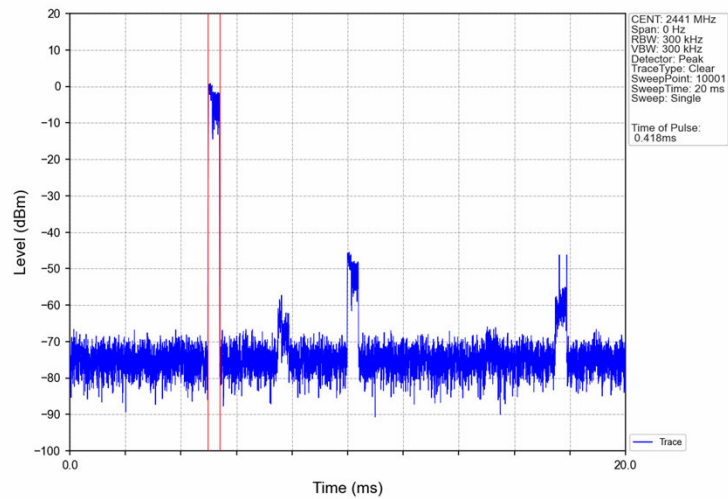
GFSK_DH5_HOPP_Ant1_NTNV



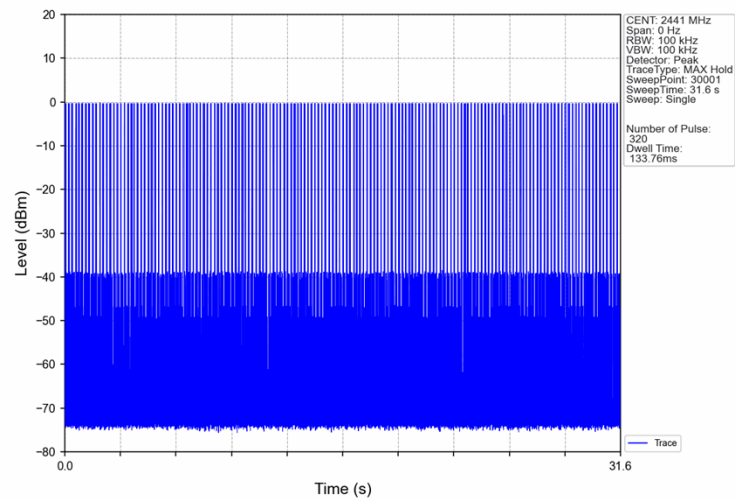
GFSK_DH5_HOPP_Ant1_NTNV



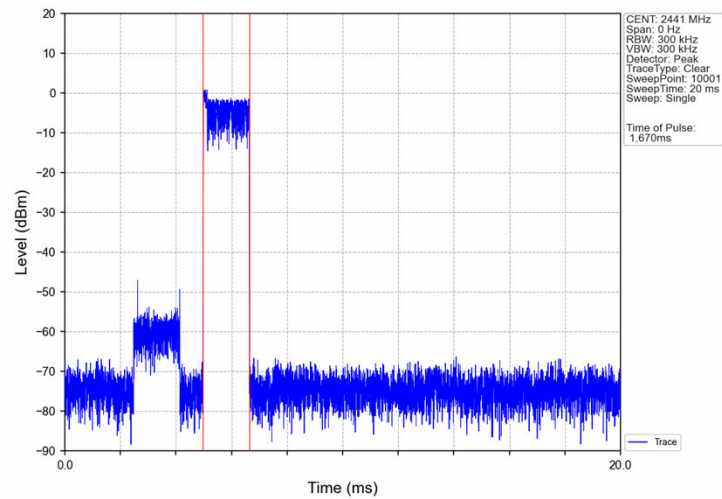
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



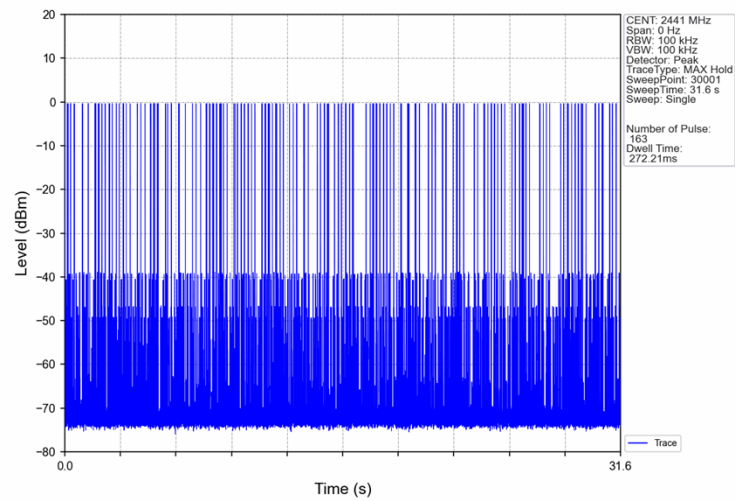
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



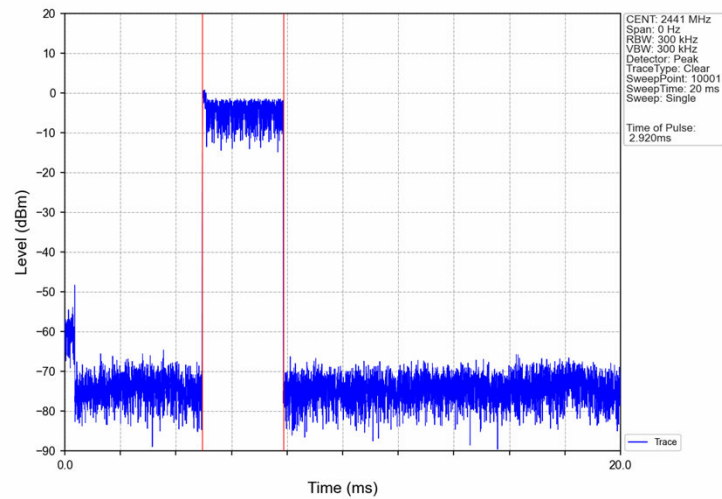
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



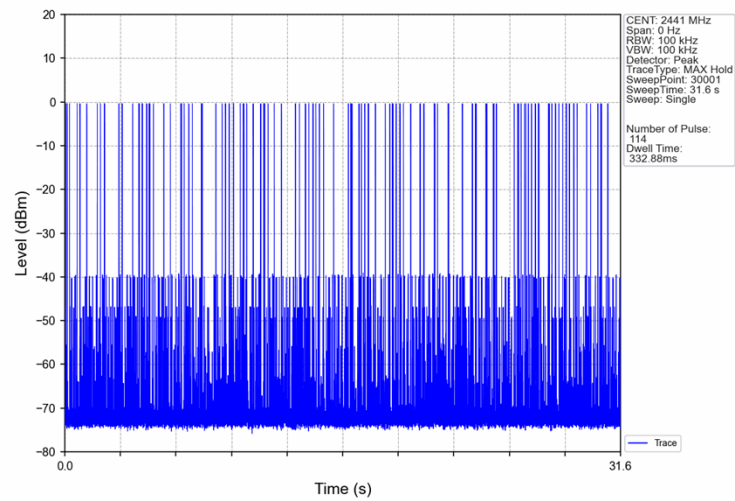
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



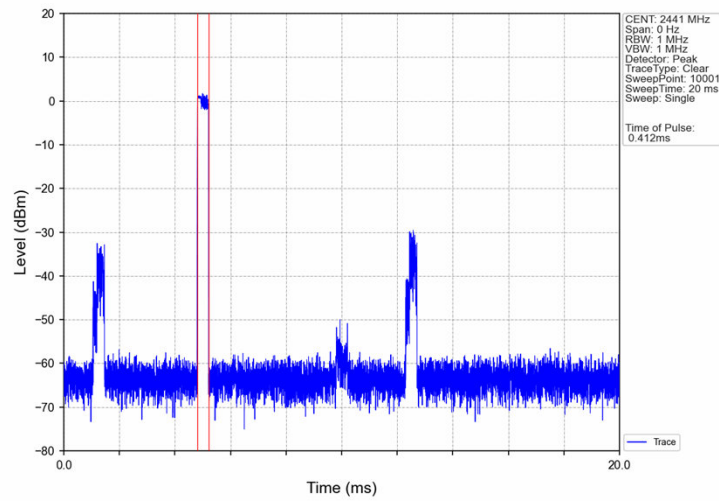
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV

