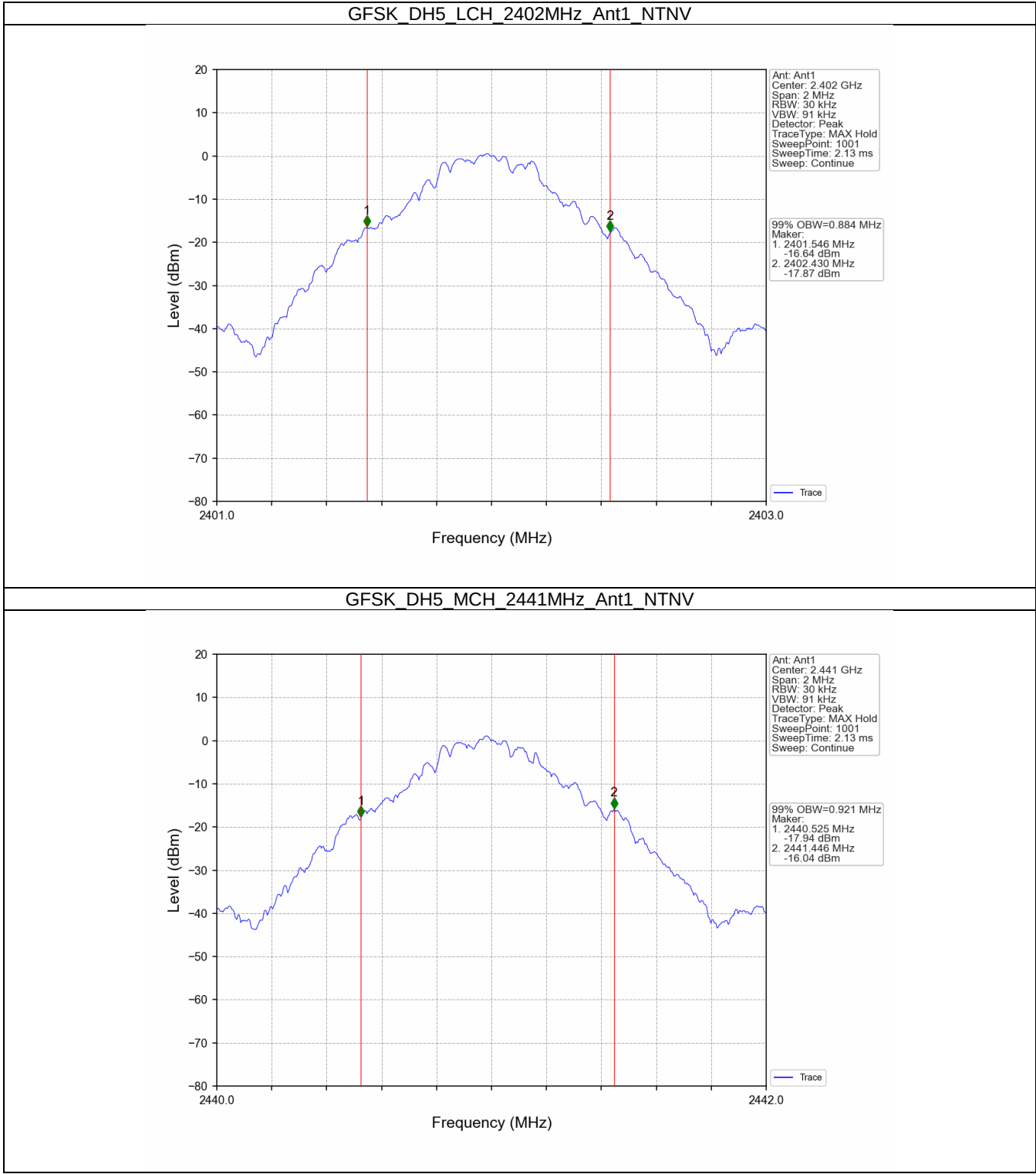


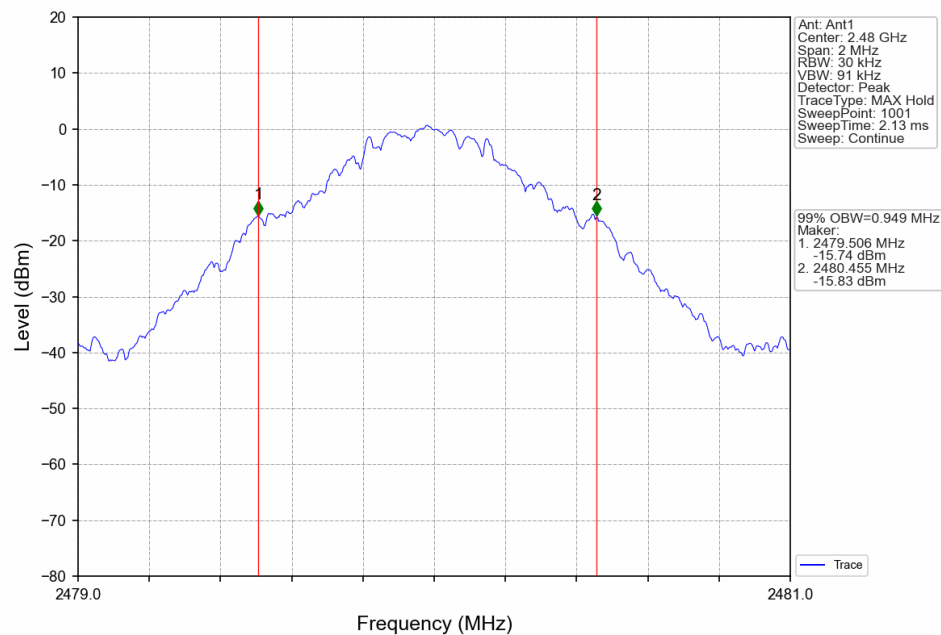
Appendix for 15.247**Product Name: Multimedia Speaker System****Test Model: EA055****1. Bandwidth****1.1 OBW****1.1.1 Test Result**

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	0.921	Pass
		2480	DH5	1	0.949	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.183	Pass
		2441	2DH5	1	1.207	Pass
		2480	2DH5	1	1.240	Pass
8DPSK	SISO	2402	3DH5	1	1.178	Pass
		2441	3DH5	1	1.202	Pass
		2480	3DH5	1	1.233	Pass

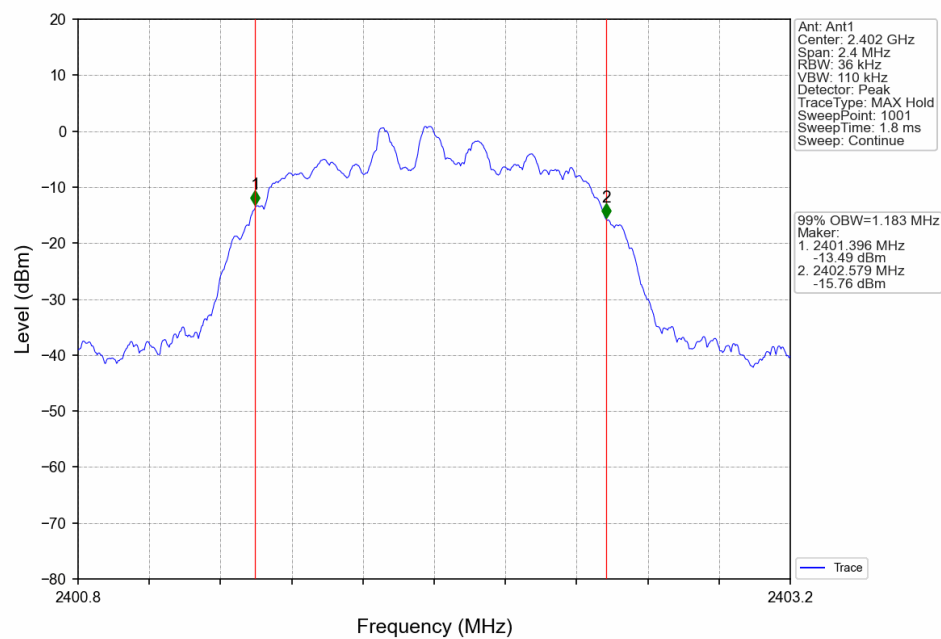
1.1.2 Test Graph

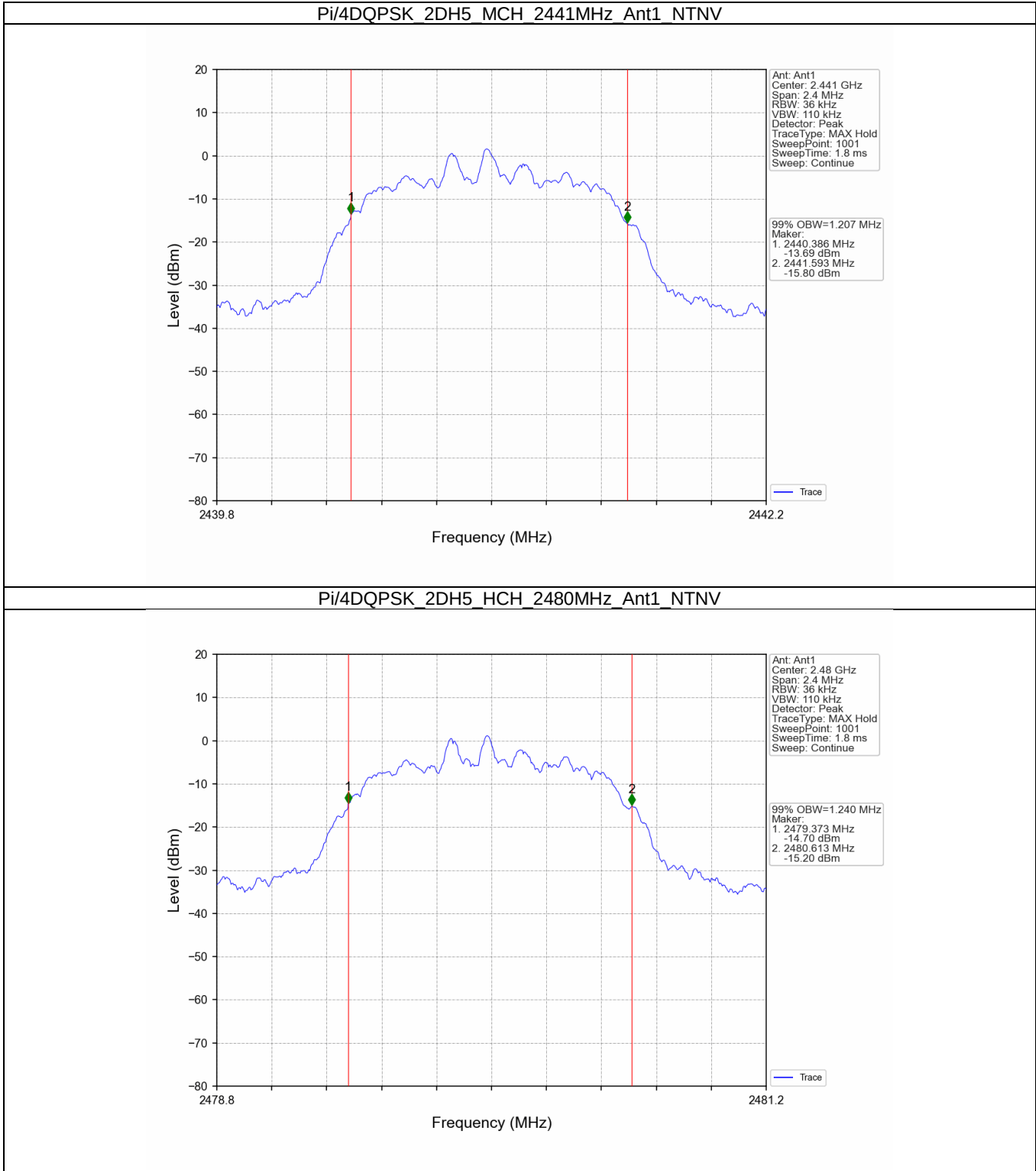


GFSK DH5 HCH 2480MHz Ant1 NTN

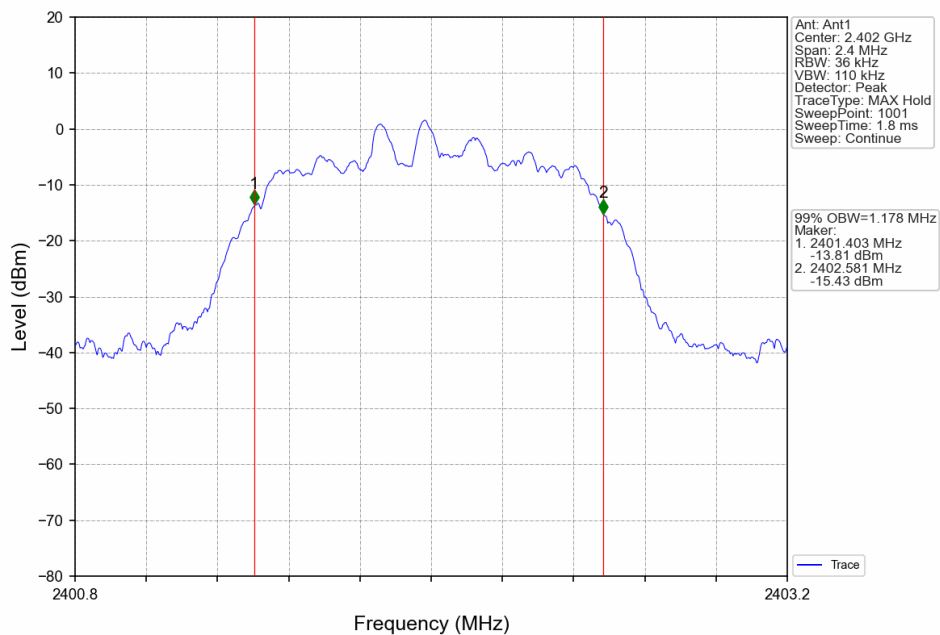


Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN

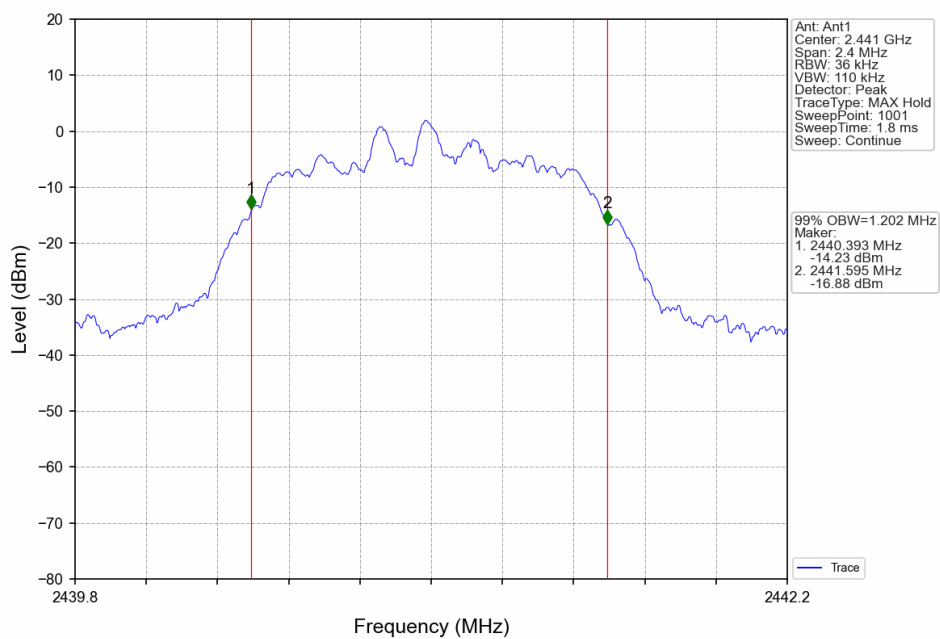


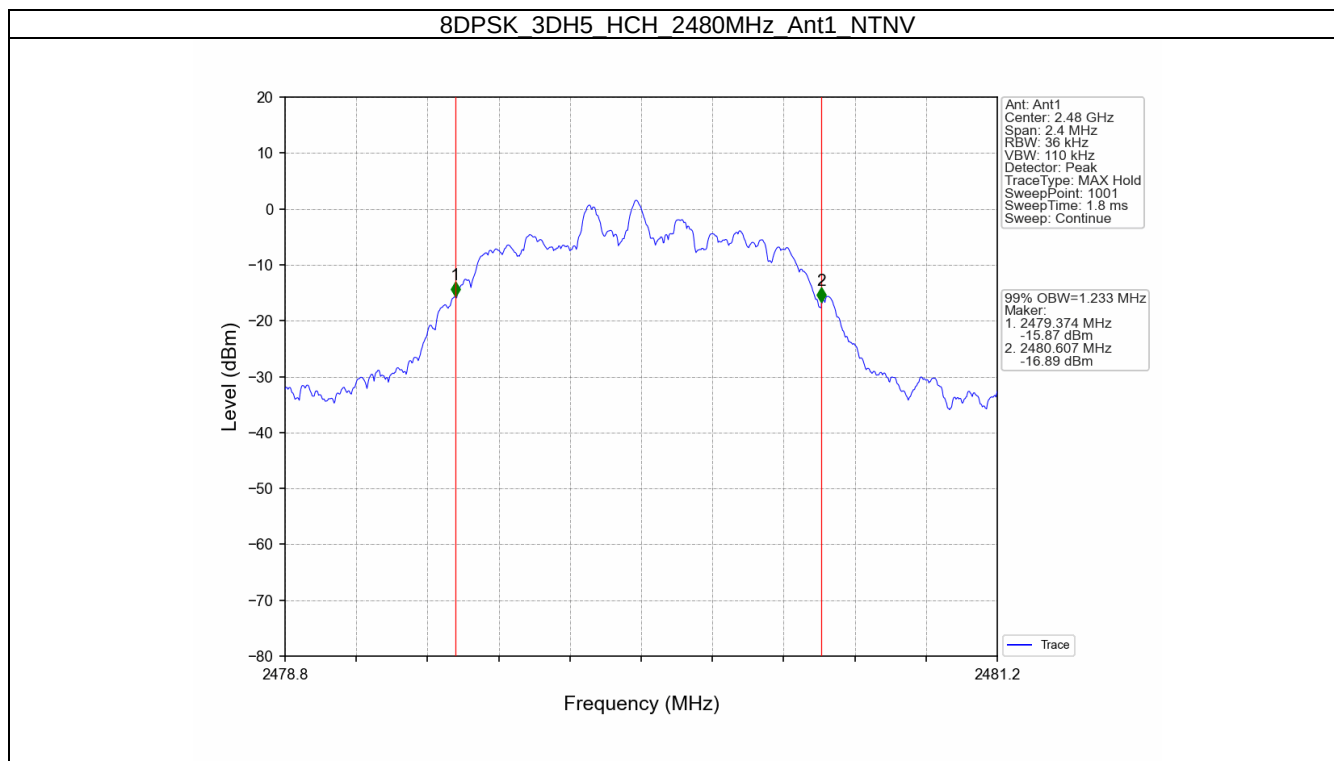


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



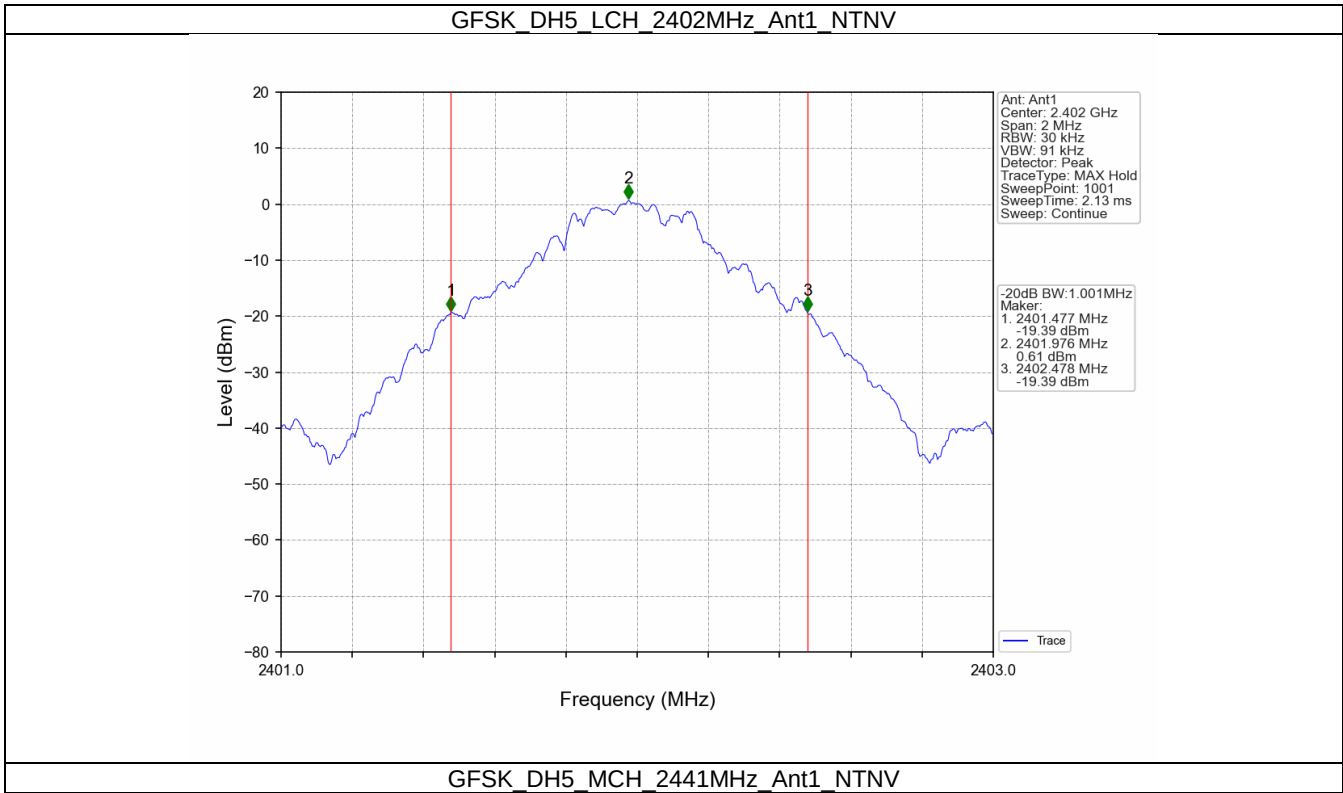


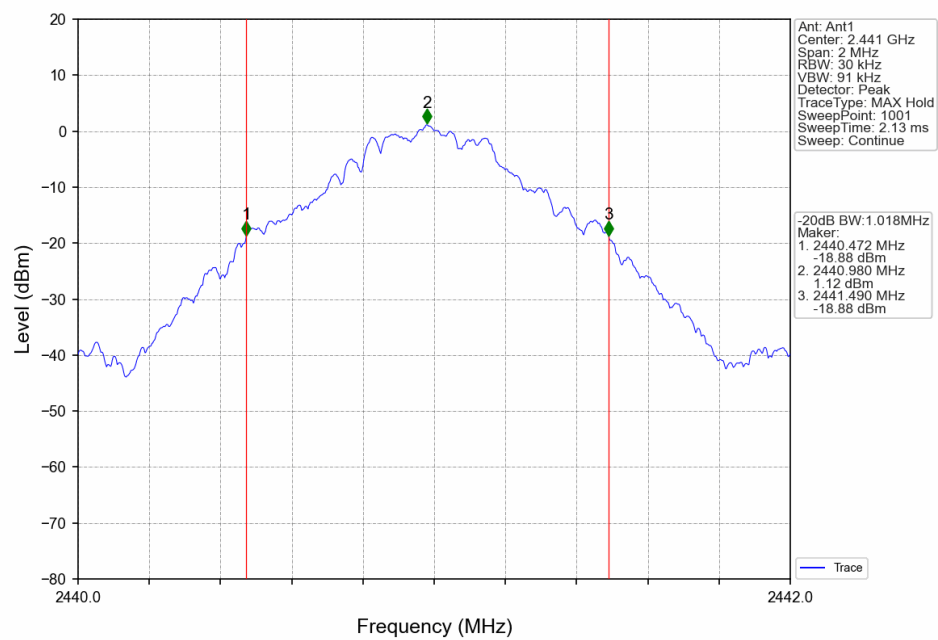
1.2 20dB BW

1.2.1 Test Result

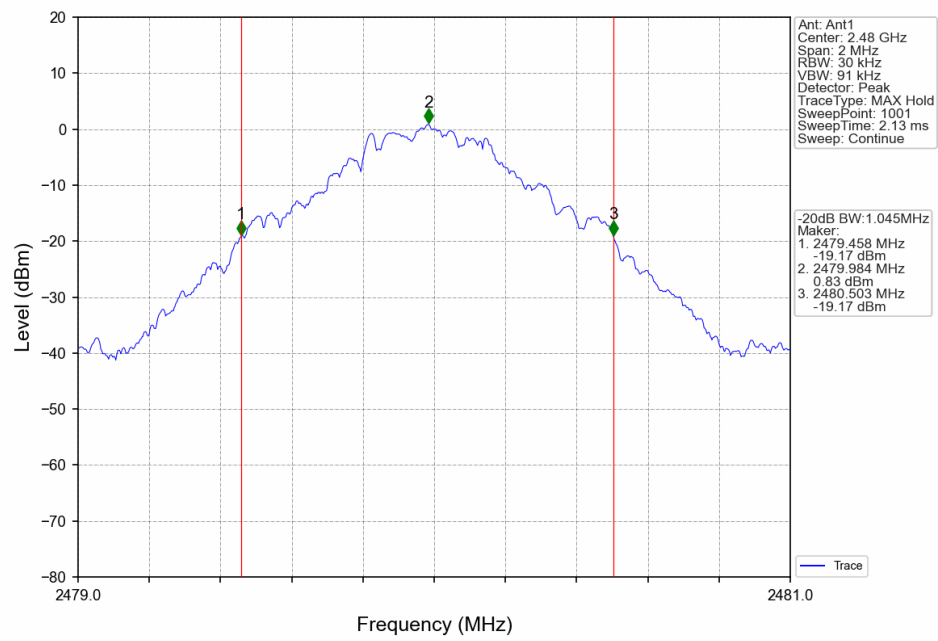
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.001	Pass
		2441	DH5	1	1.018	Pass
		2480	DH5	1	1.045	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.318	Pass
		2441	2DH5	1	1.330	Pass
		2480	2DH5	1	1.349	Pass
8DPSK	SISO	2402	3DH5	1	1.297	Pass
		2441	3DH5	1	1.323	Pass
		2480	3DH5	1	1.341	Pass

1.2.2 Test Graph

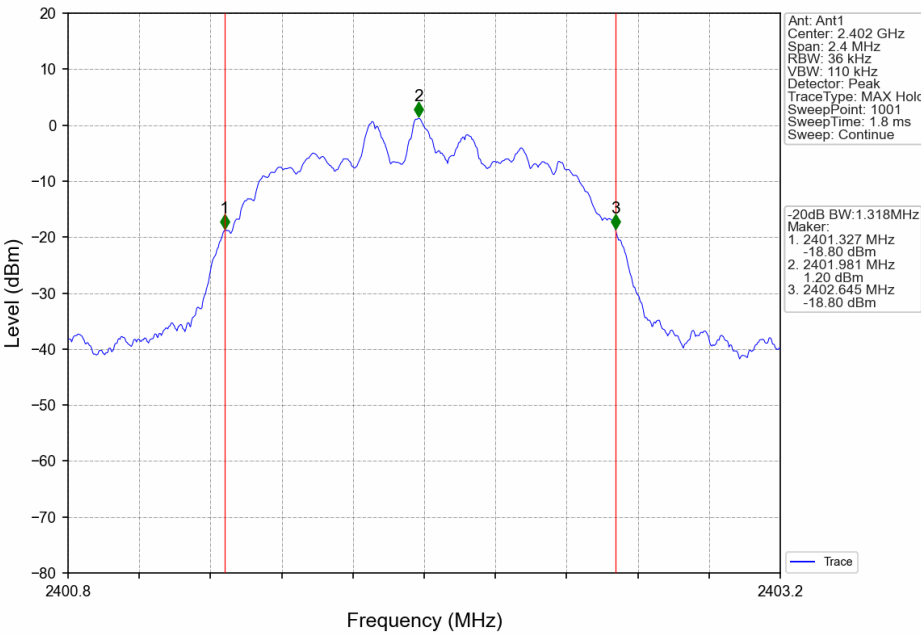




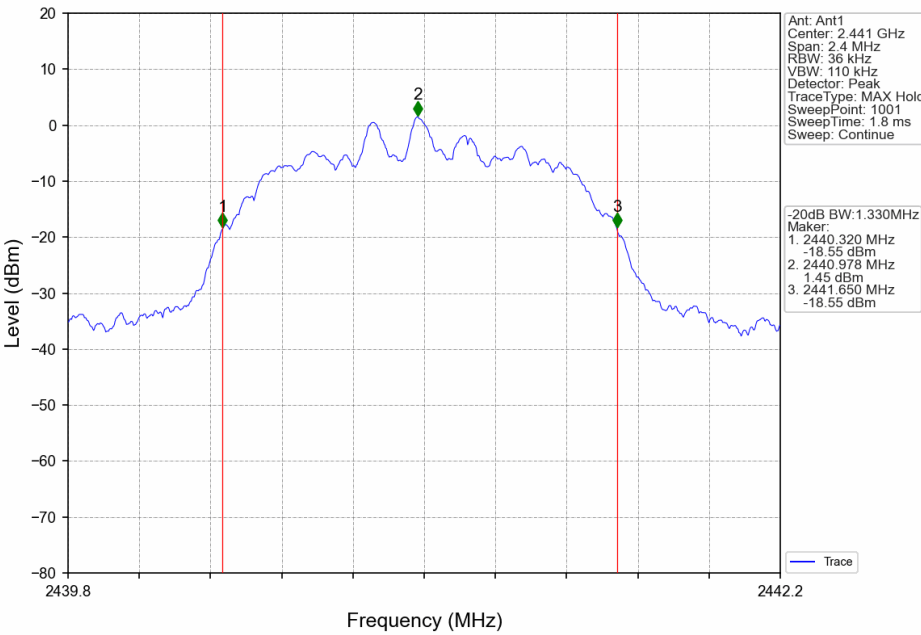
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



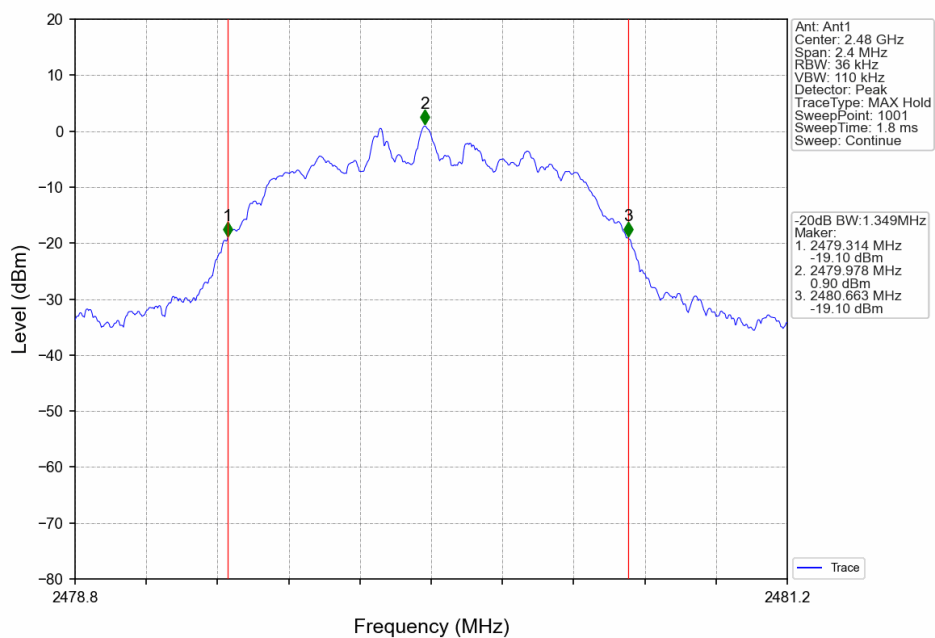
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



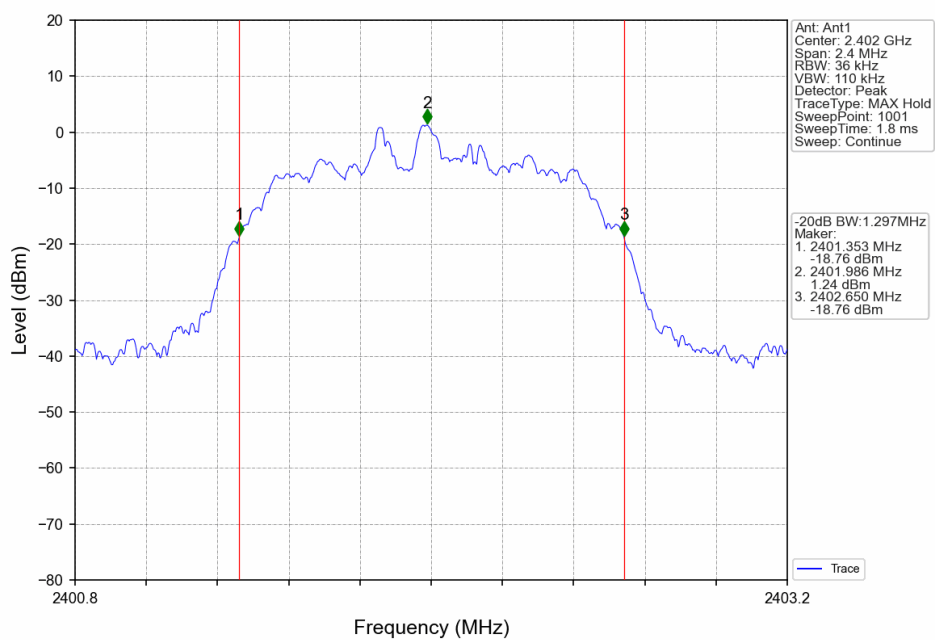
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



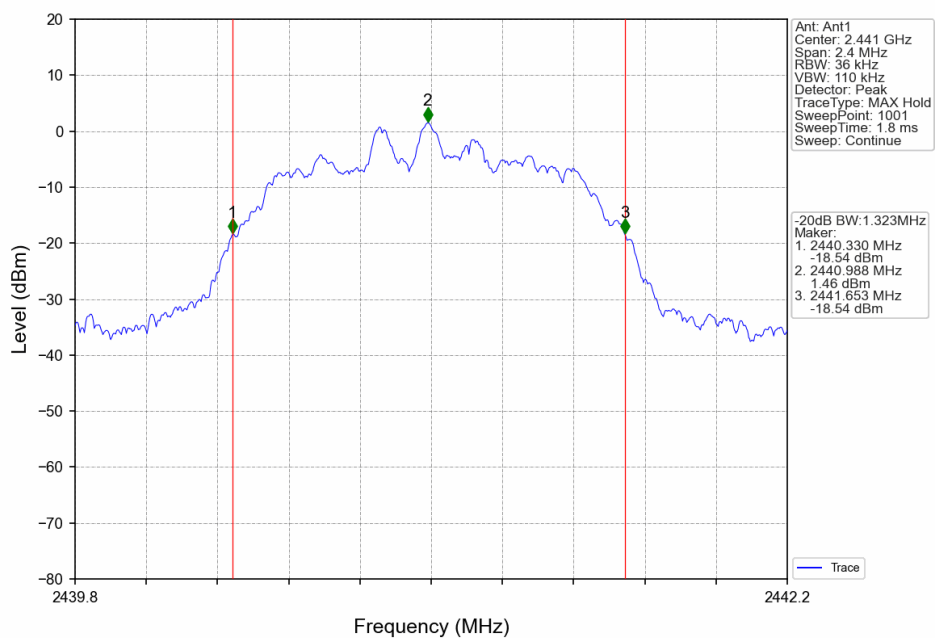
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



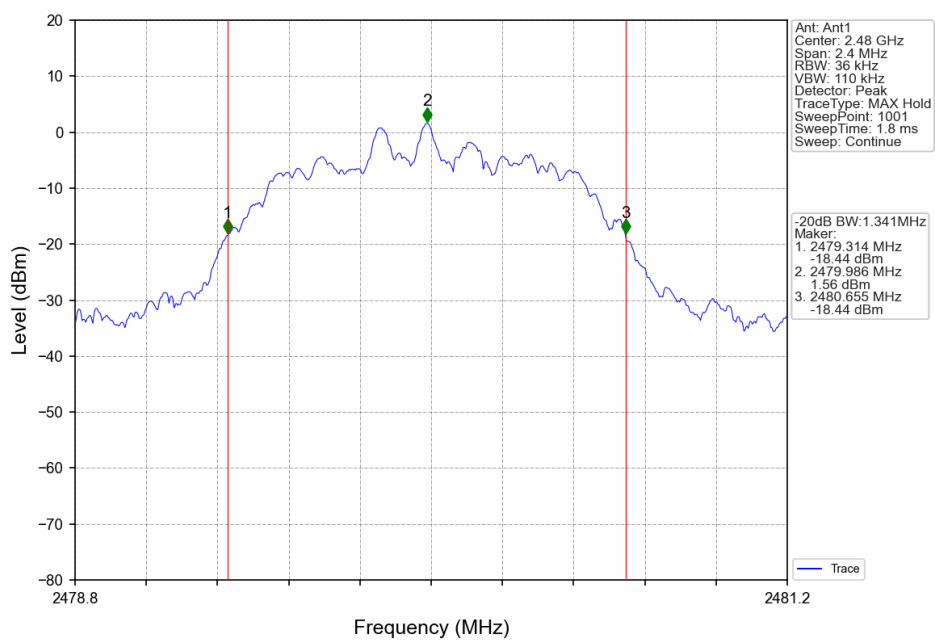
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

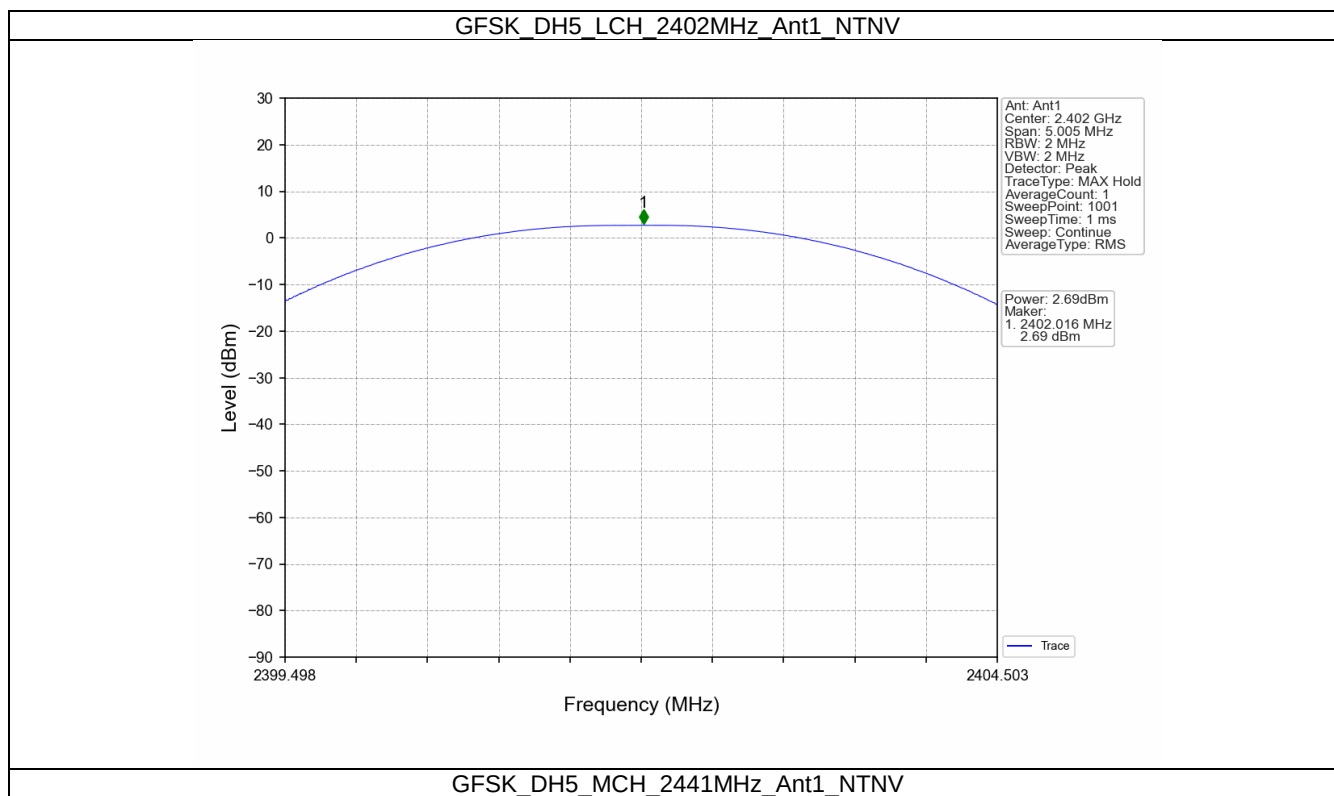
2.1 Power

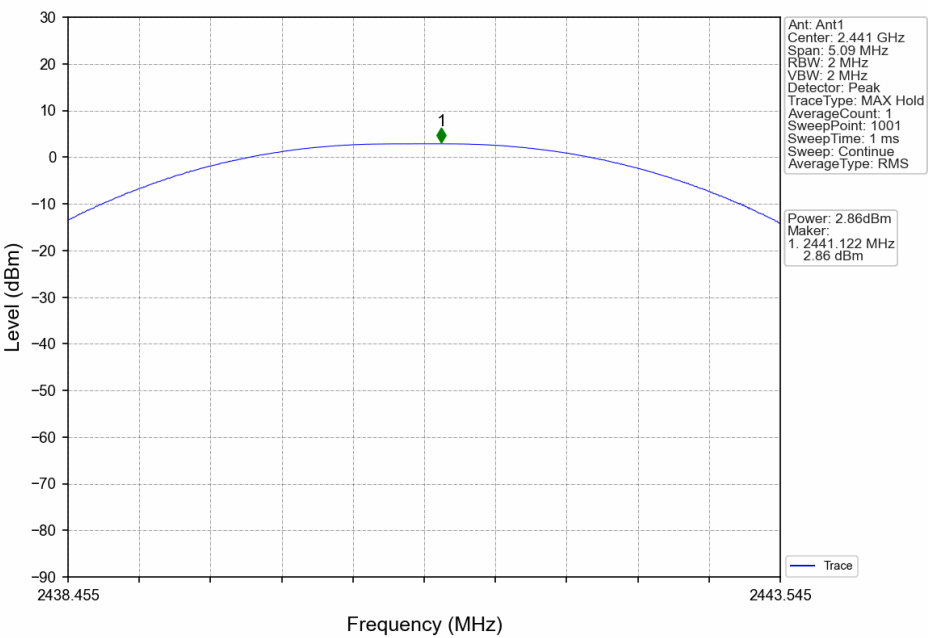
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.69	<=20.97	Pass
		2441	DH5	2.86	<=20.97	Pass
		2480	DH5	2.79	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.38	<=20.97	Pass
		2441	2DH5	3.39	<=20.97	Pass
		2480	2DH5	3.27	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.63	<=20.97	Pass
		2441	3DH5	3.66	<=20.97	Pass
		2480	3DH5	3.54	<=20.97	Pass

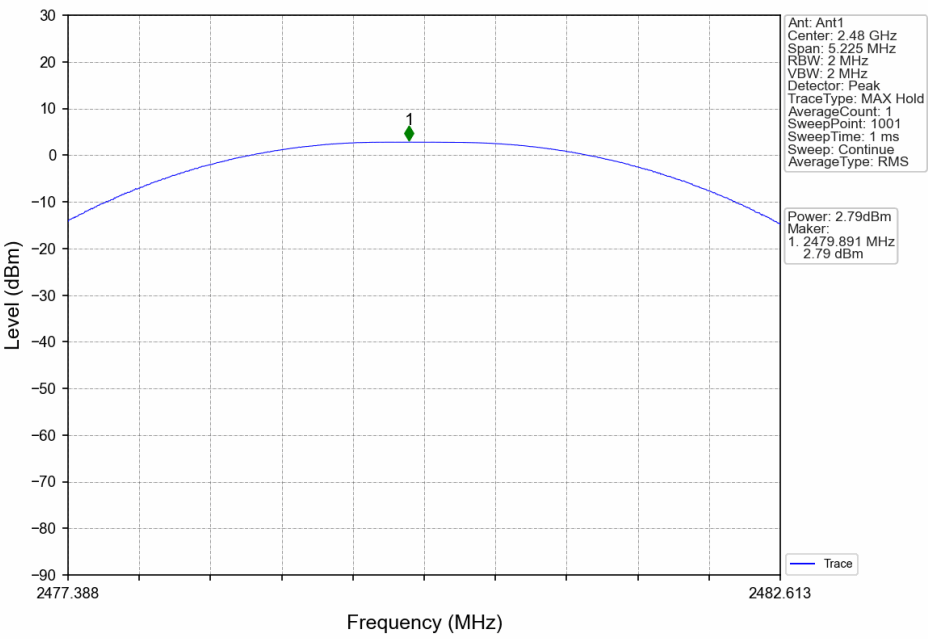
Note1: Antenna Gain: Ant1: 0.00dBi;

2.1.2 Test Graph

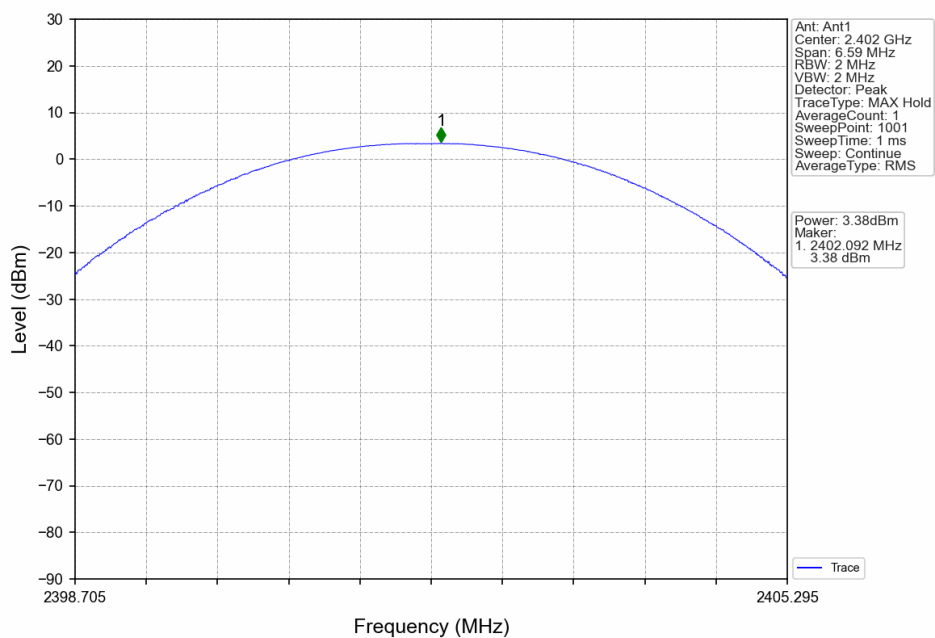




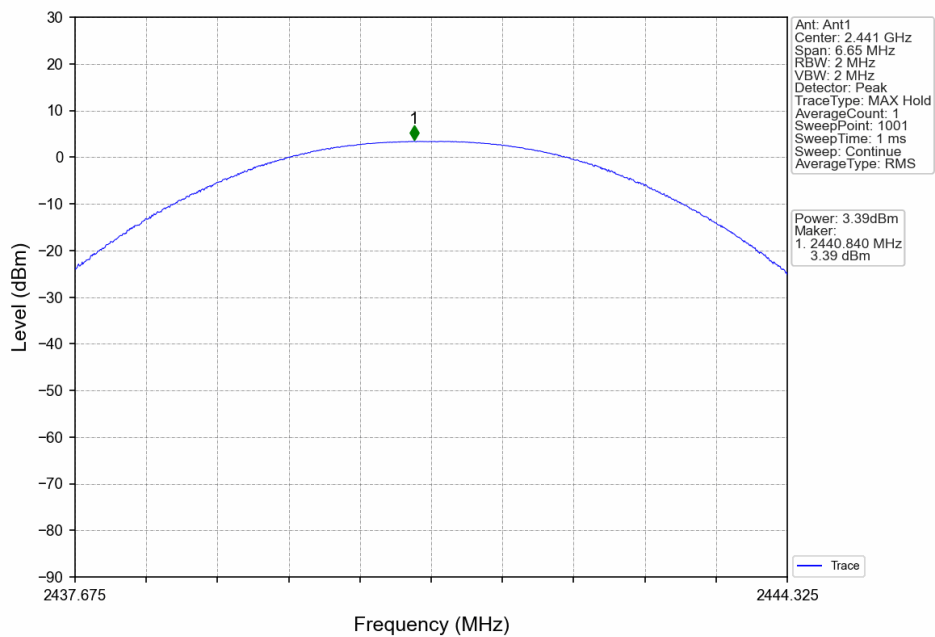
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



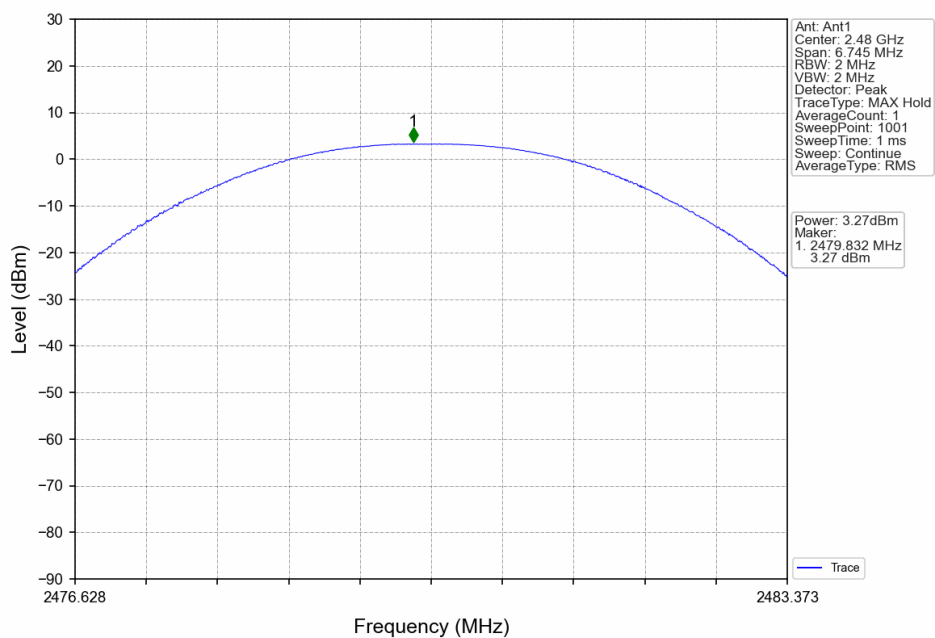
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



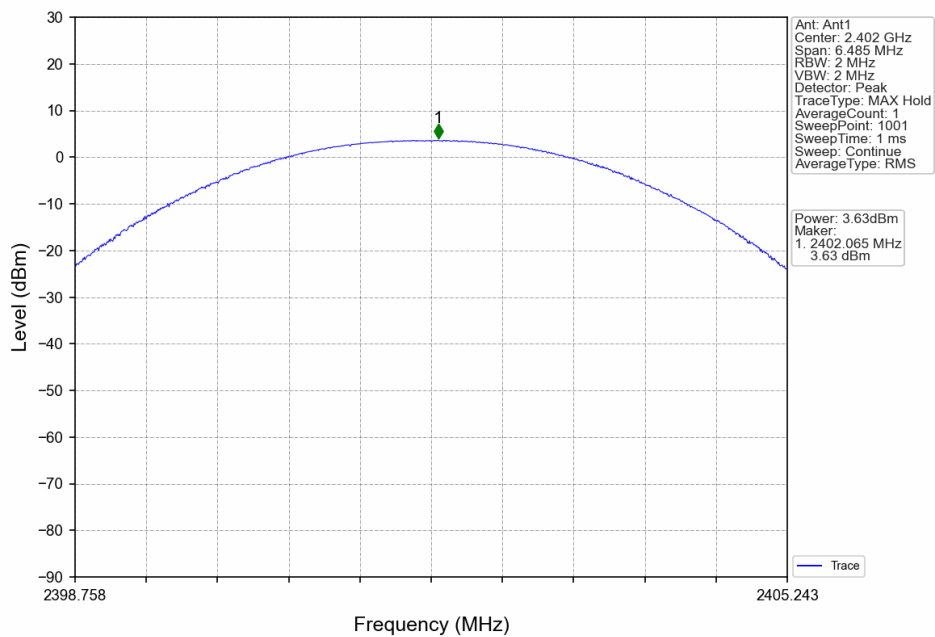
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNv



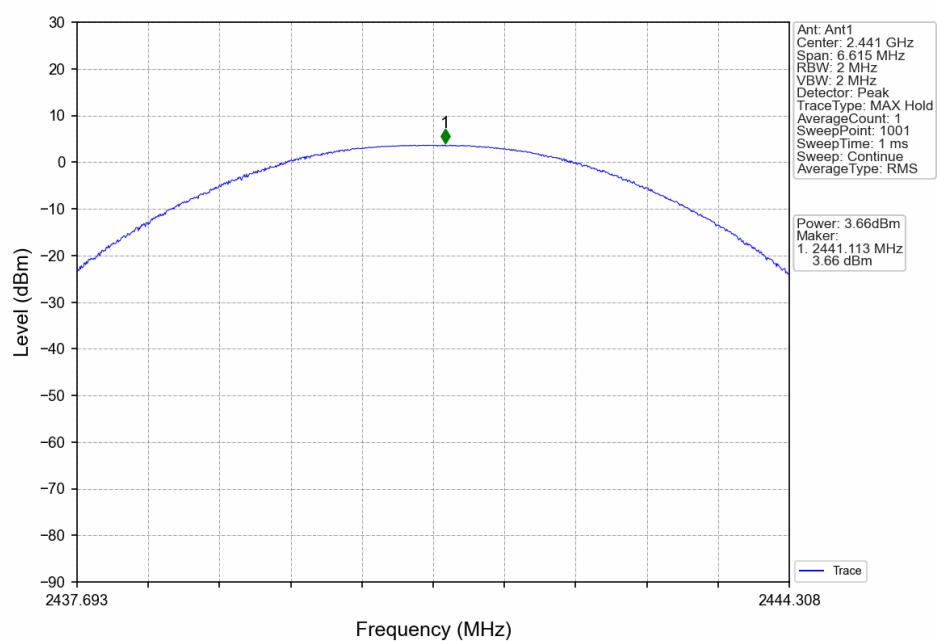
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNv



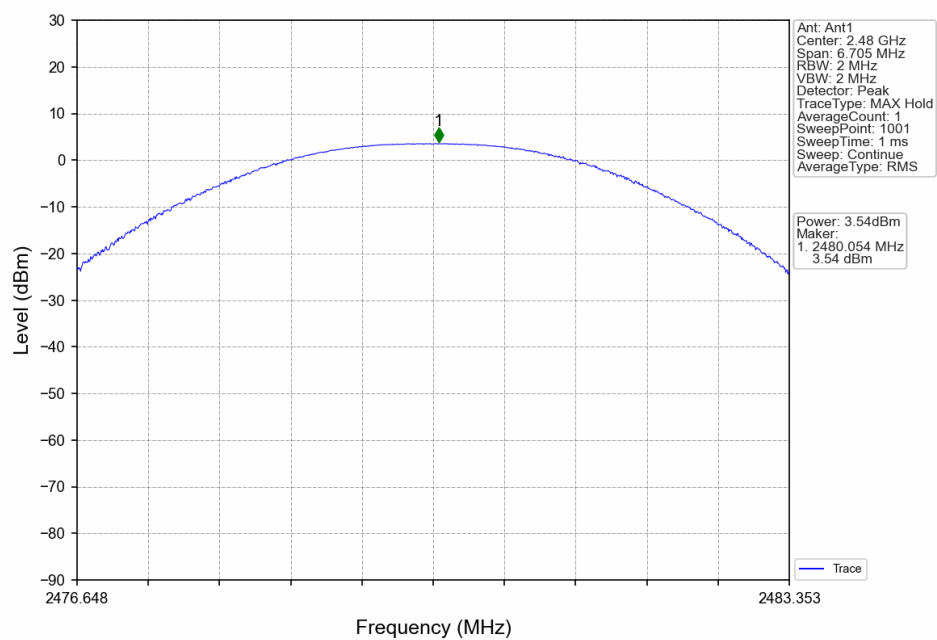
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



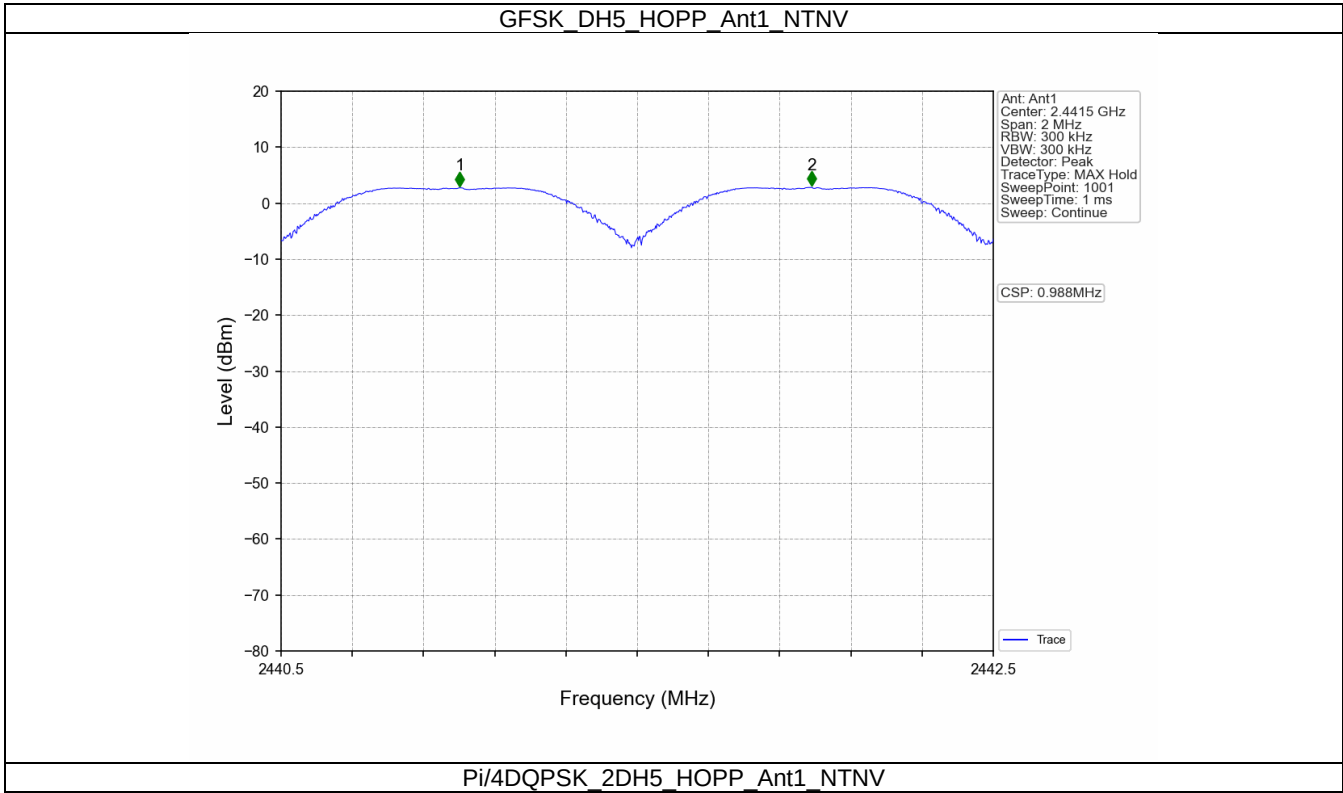
3. Carrier Frequency Separation

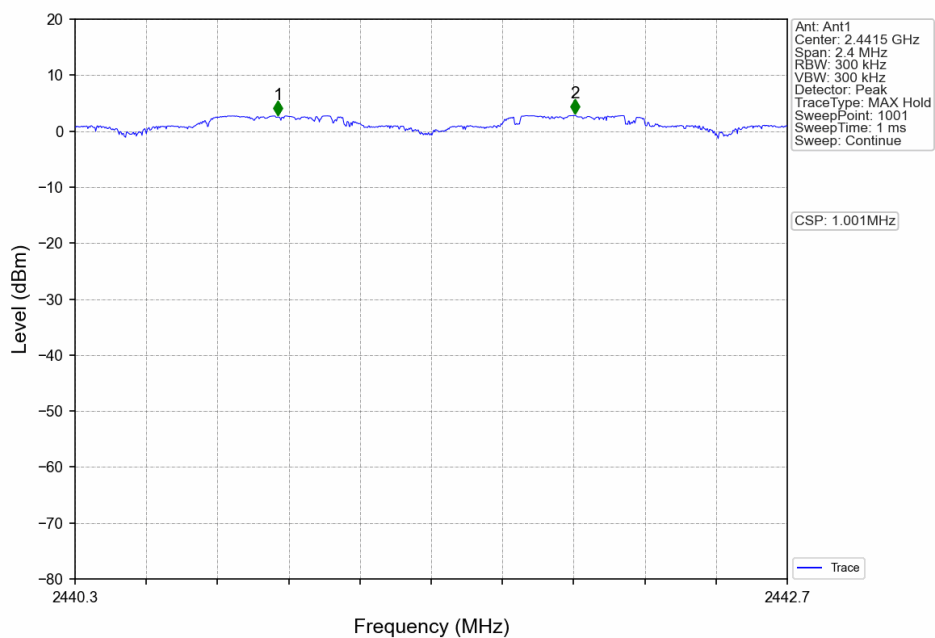
3.1 Ant1

3.1.1 Test Result

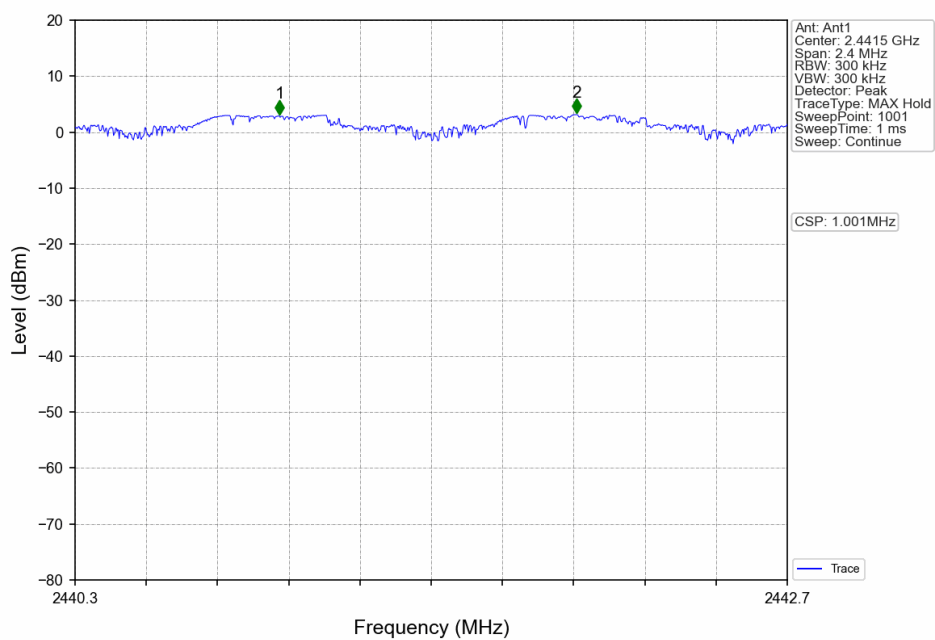
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.988	1.045	≥ 0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.349	≥ 0.899	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.341	≥ 0.894	Pass

3.1.2 Test Graph





8DPSK_3DH5_HOPP_Ant1_NTNV



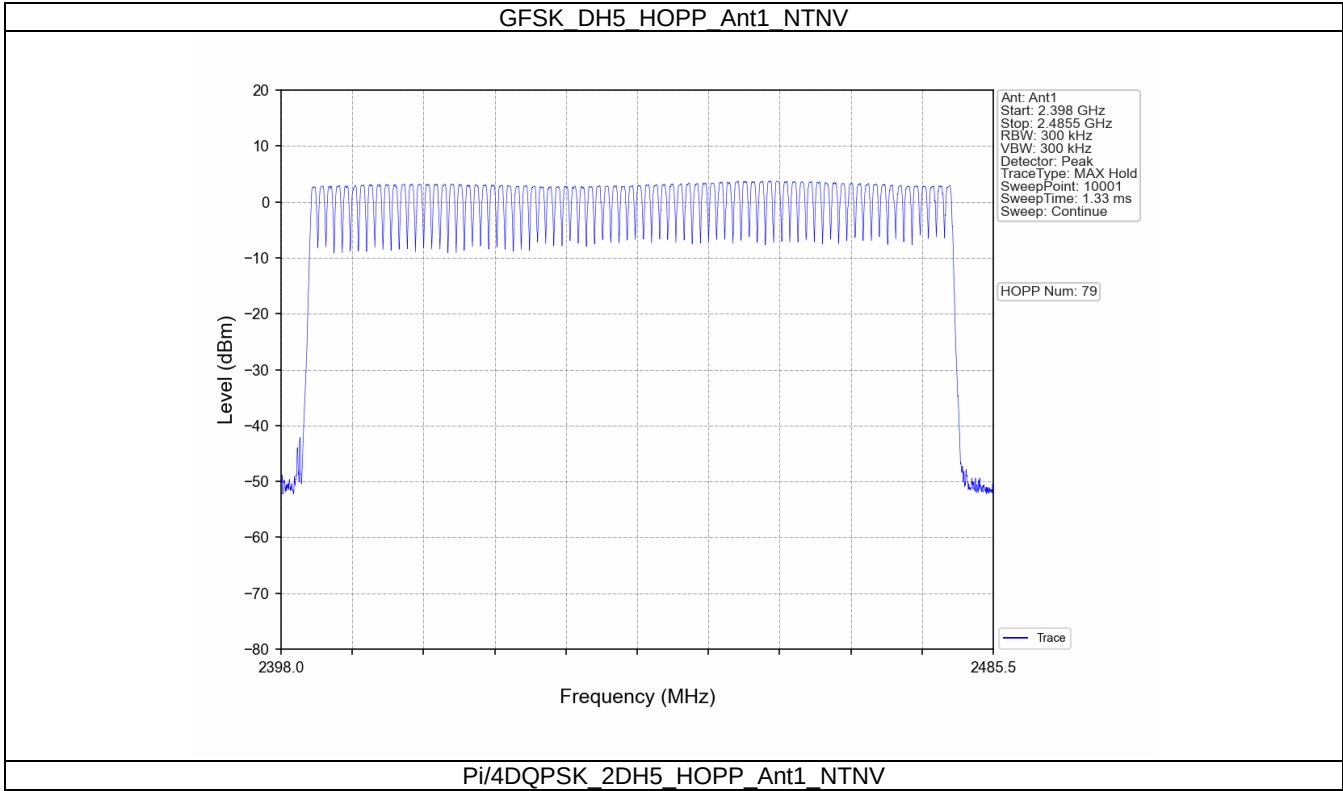
4. Number of Hopping Frequencies

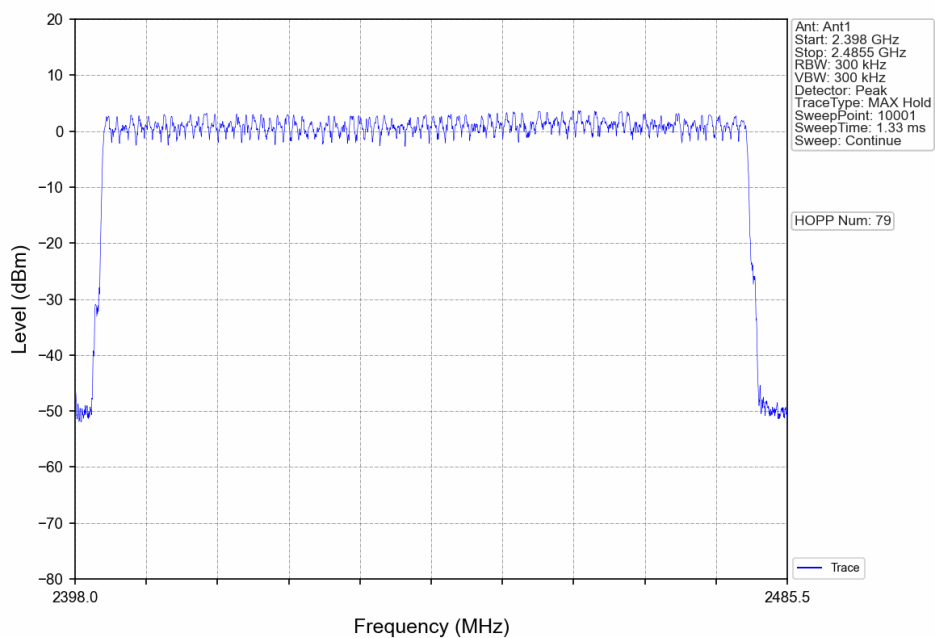
4.1 HopNum

4.1.1 Test Result

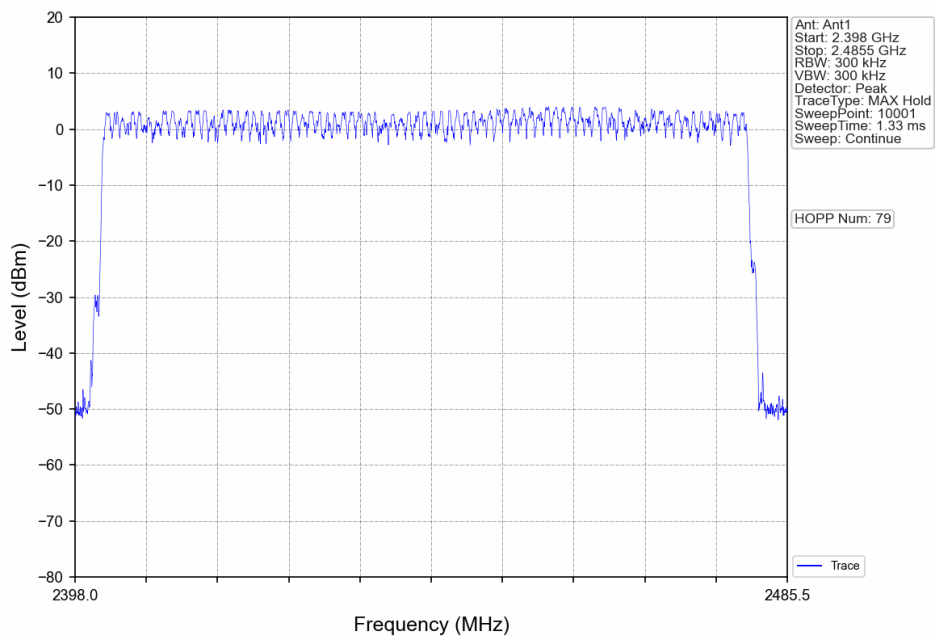
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.1.2 Test Graph





8DPSK_3DH5_HOPP_Ant1_NTNV



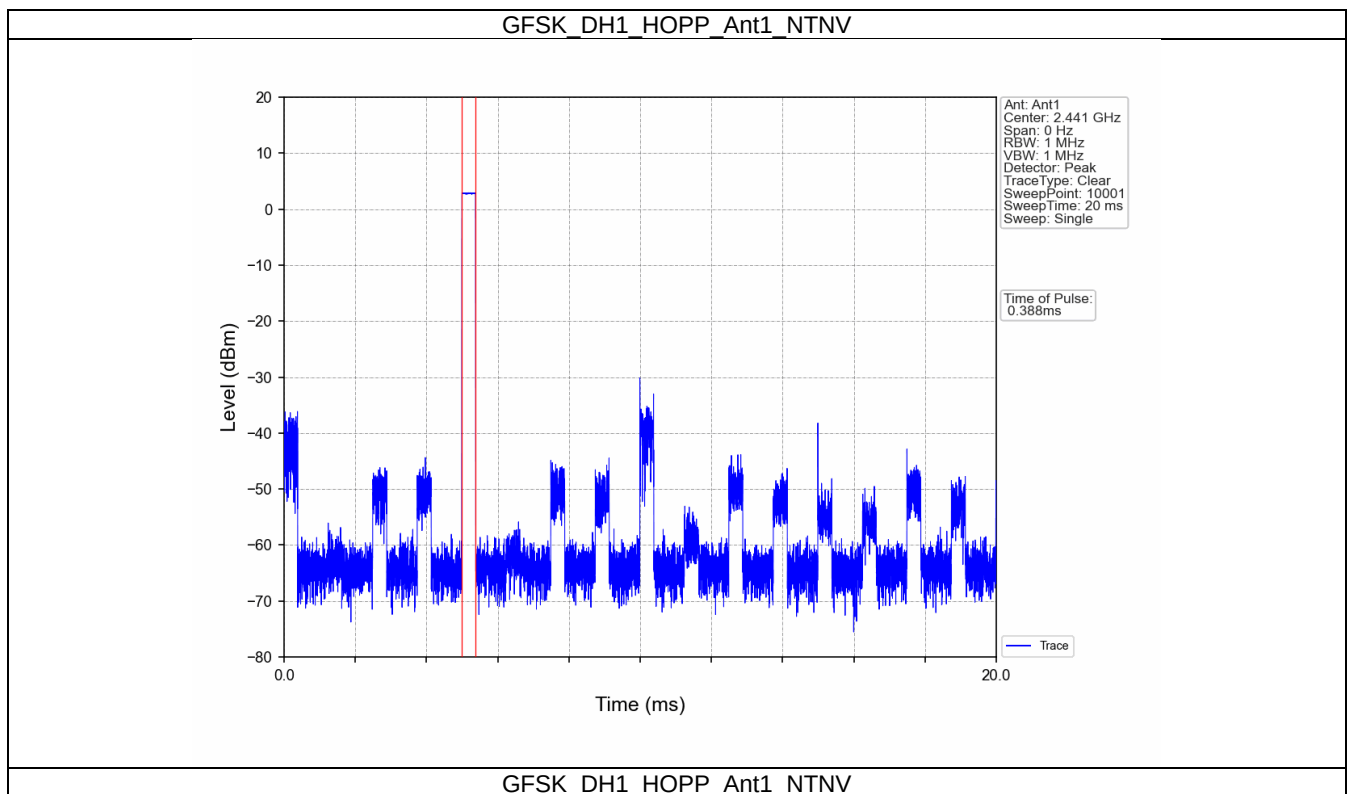
5. Time of Occupancy (Dwell Time)

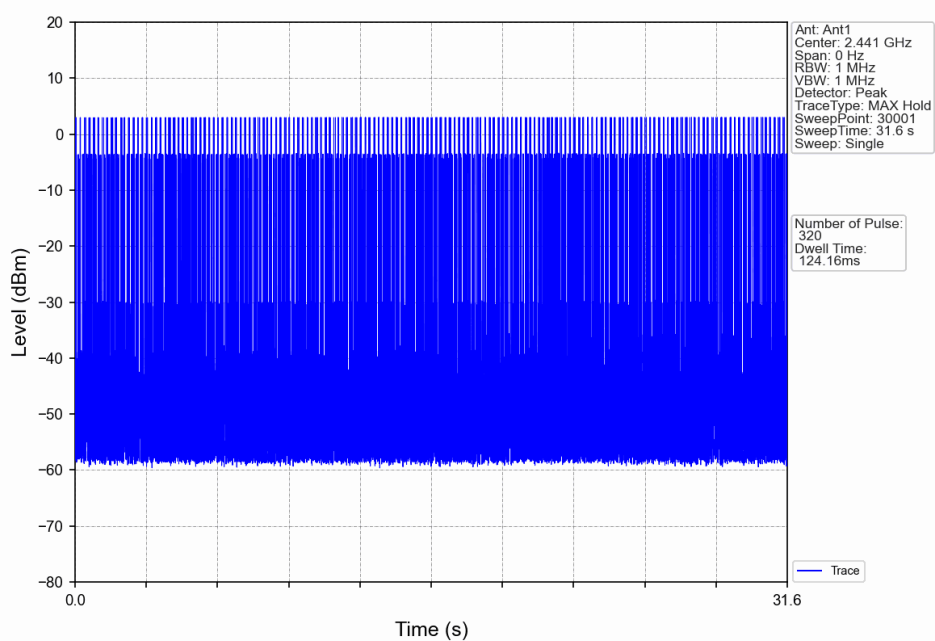
5.1 Ant1

5.1.1 Test Result

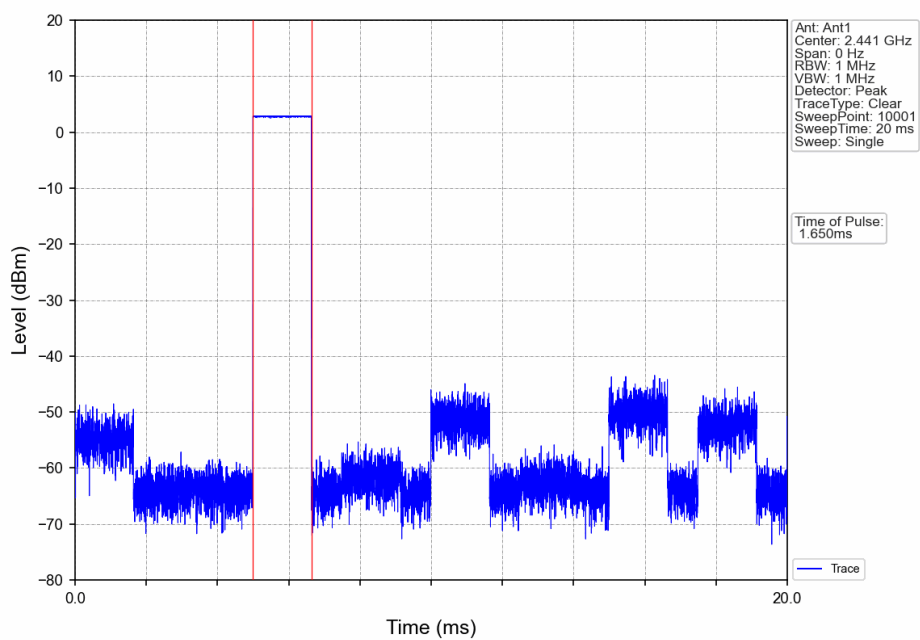
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.388	31.600	320	124.160	<=400	Pass
			DH3	1.650	31.600	163	268.950	<=400	Pass
			DH5	2.896	31.600	89	257.744	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	317	124.898	<=400	Pass
			2DH3	1.654	31.600	154	254.716	<=400	Pass
			2DH5	2.902	31.600	107	310.514	<=400	Pass
8DPSK	SISO	HOPP	3DH1	6.678	31.600	54	360.612	<=400	Pass
			3DH3	0.656	31.600	153	100.368	<=400	Pass
			3DH5	0.906	31.600	118	106.908	<=400	Pass

5.1.2 Test Graph

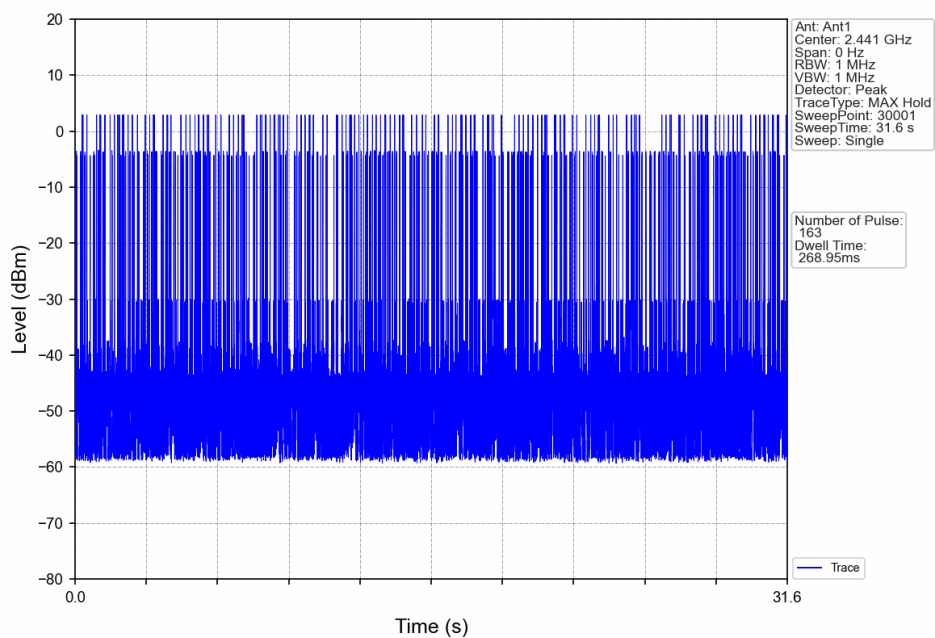




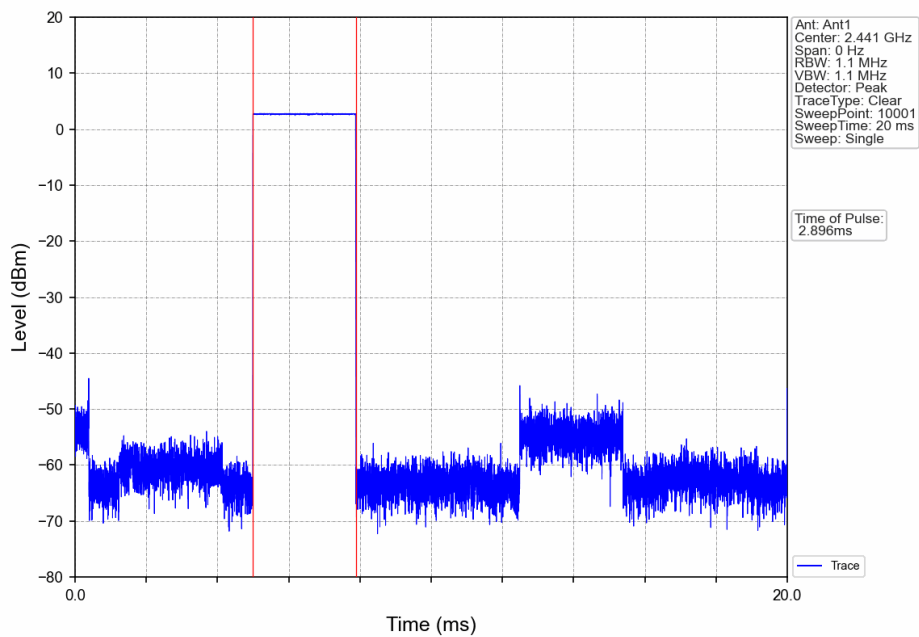
GFSK_DH3_HOPP_Ant1_NTNV



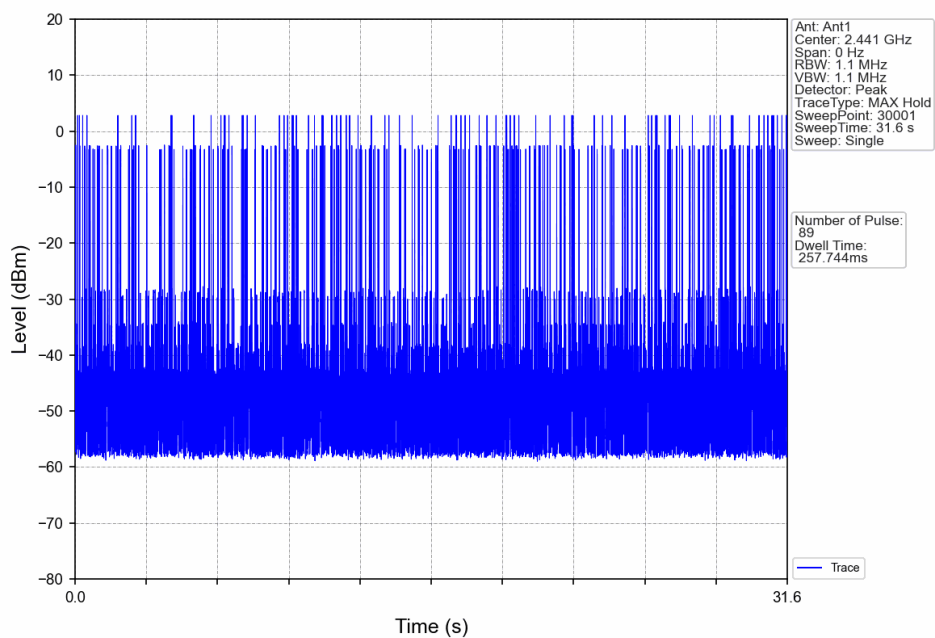
GFSK_DH3_HOPP_Ant1_NTNV



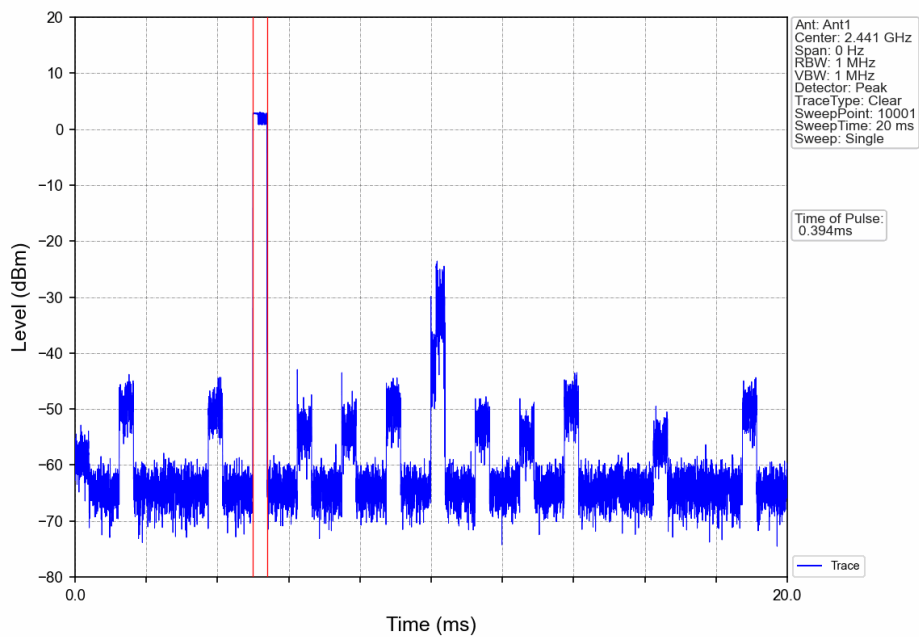
GFSK_DH5_HOPP_Ant1_NTNV



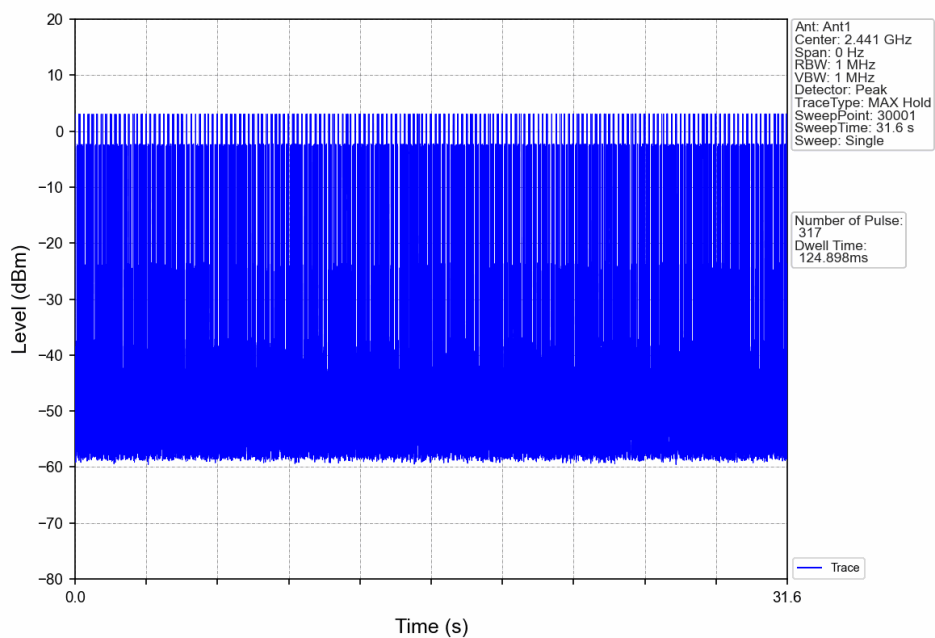
GFSK_DH5_HOPP_Ant1_NTNV



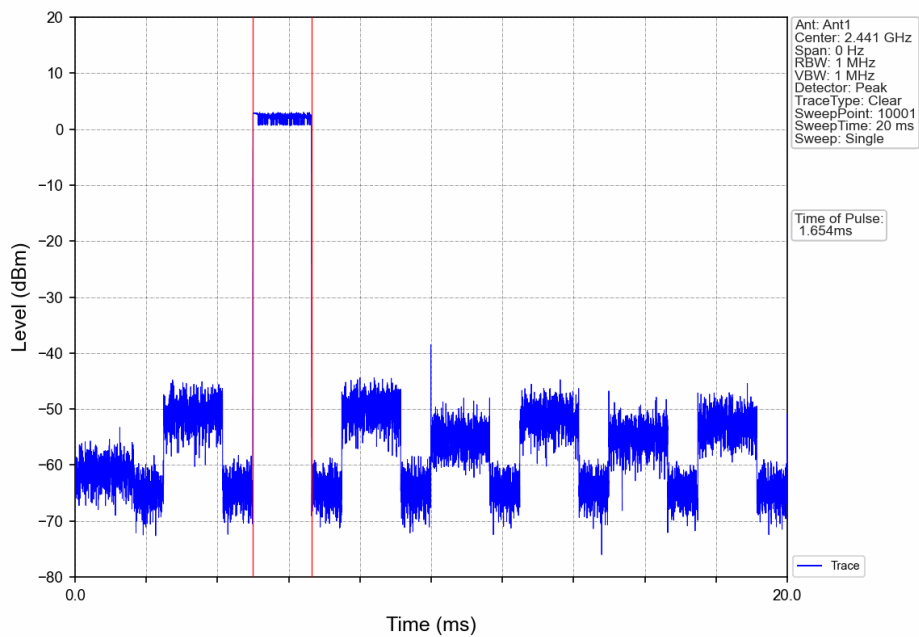
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



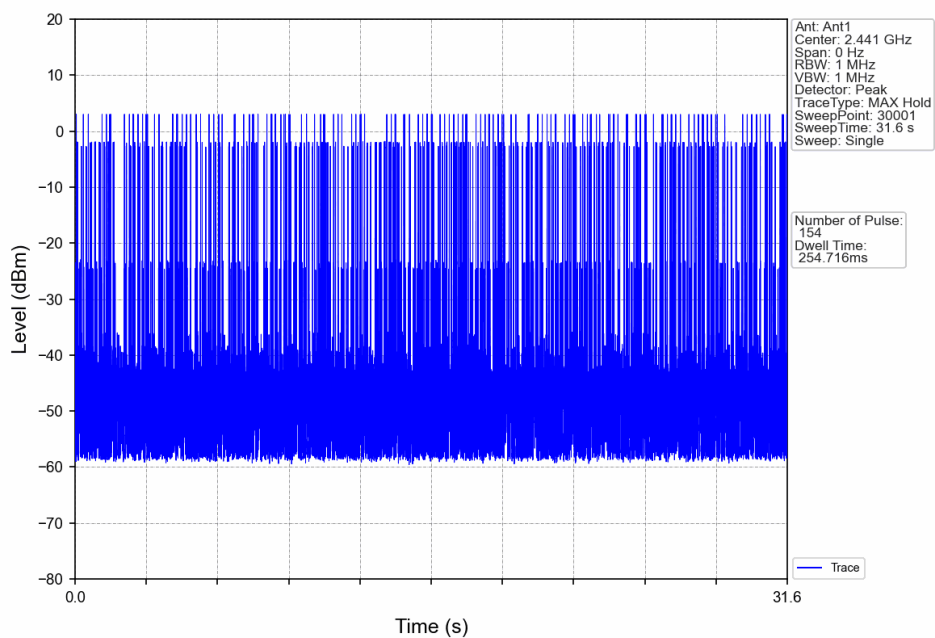
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



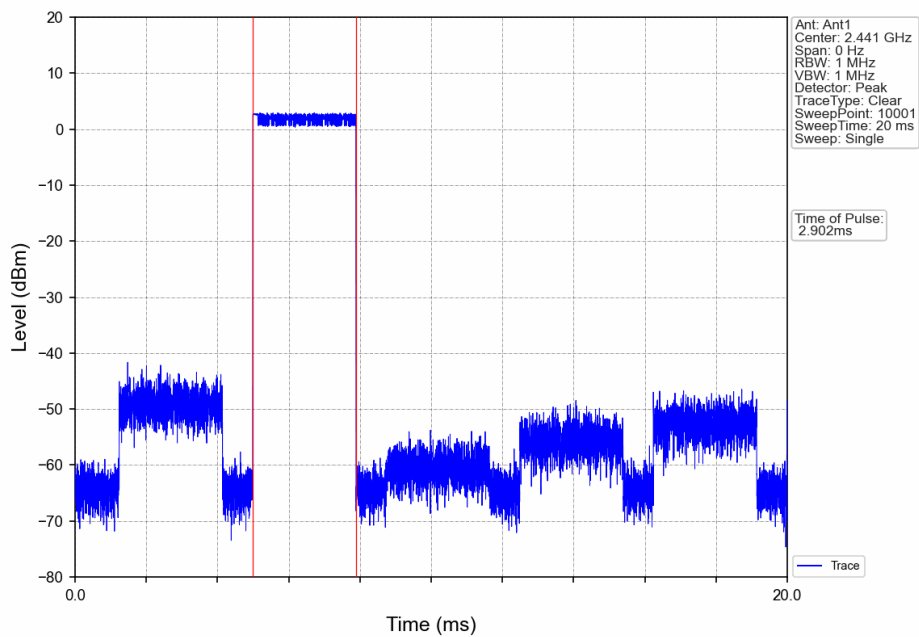
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



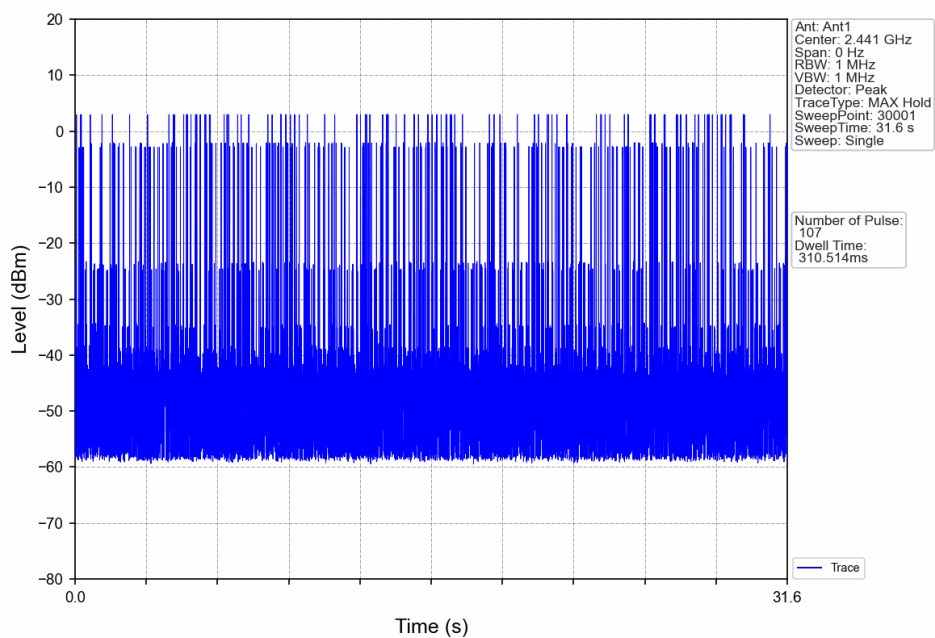
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



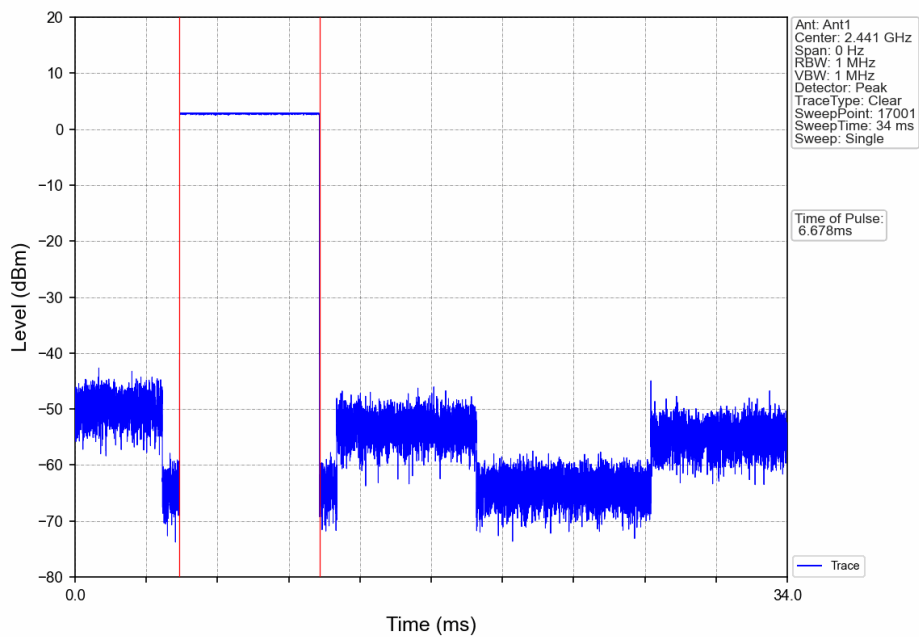
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



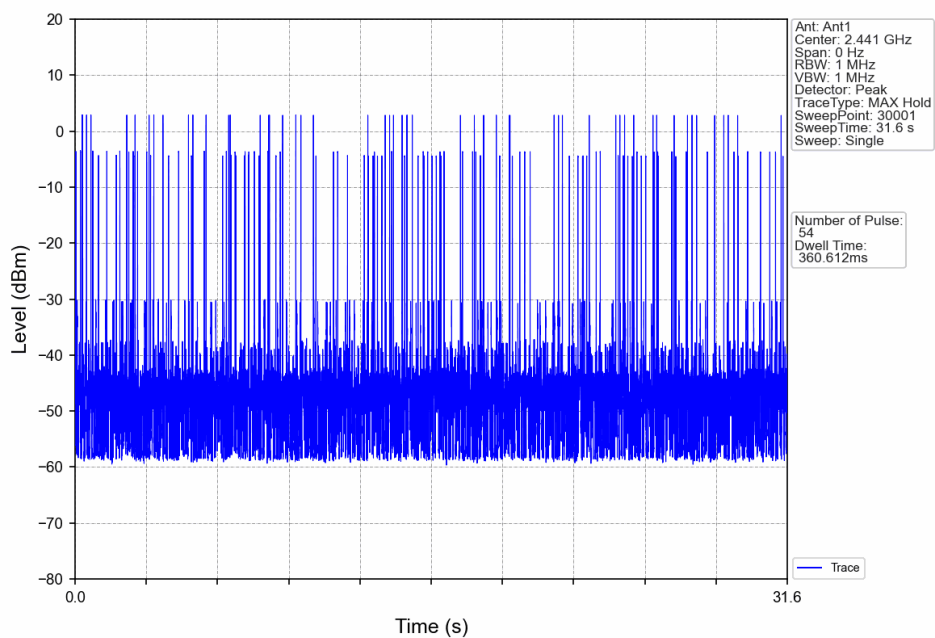
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



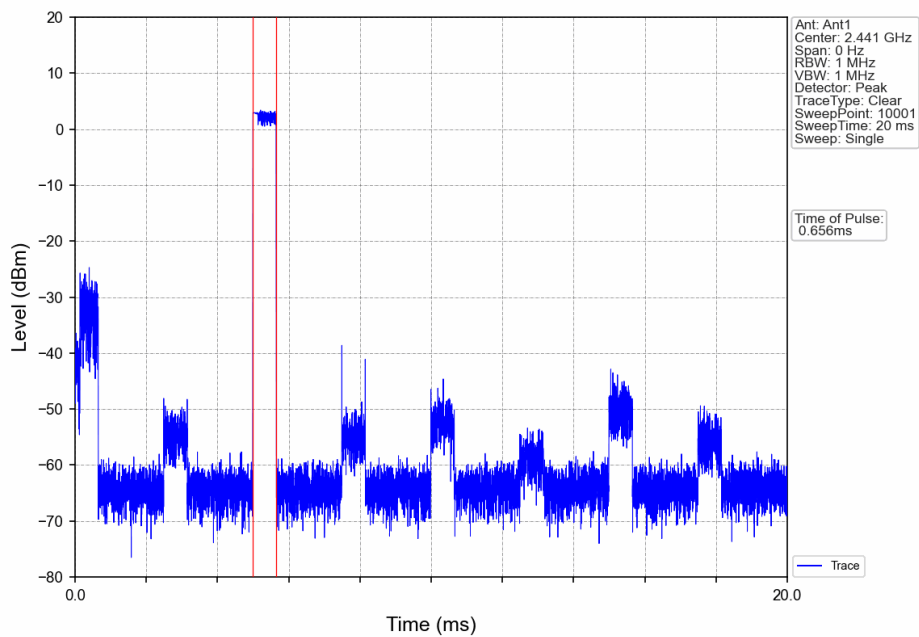
8DPSK_3DH1_HOPP_Ant1_NTNV



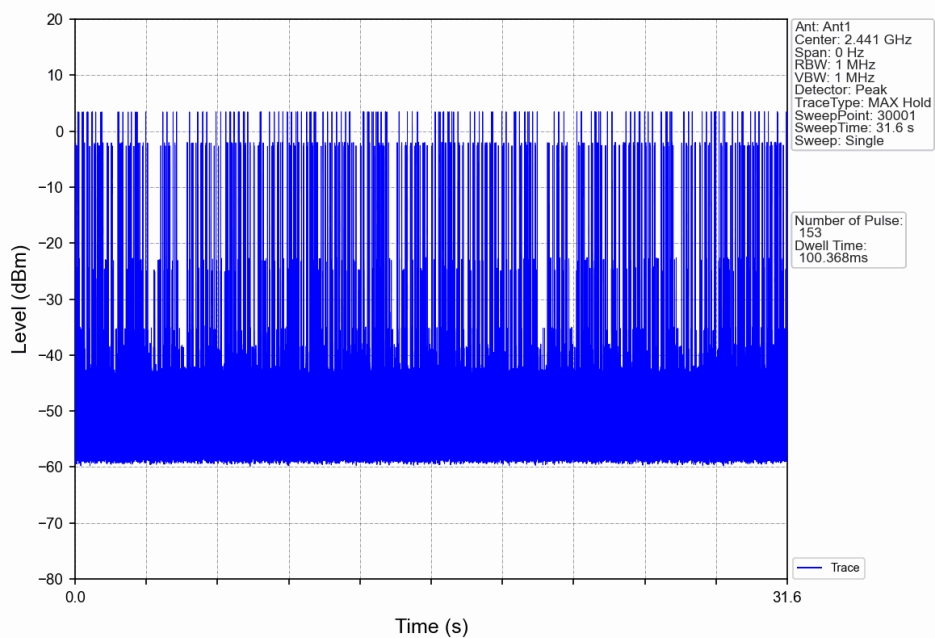
8DPSK_3DH1_HOPP_Ant1_NTNV



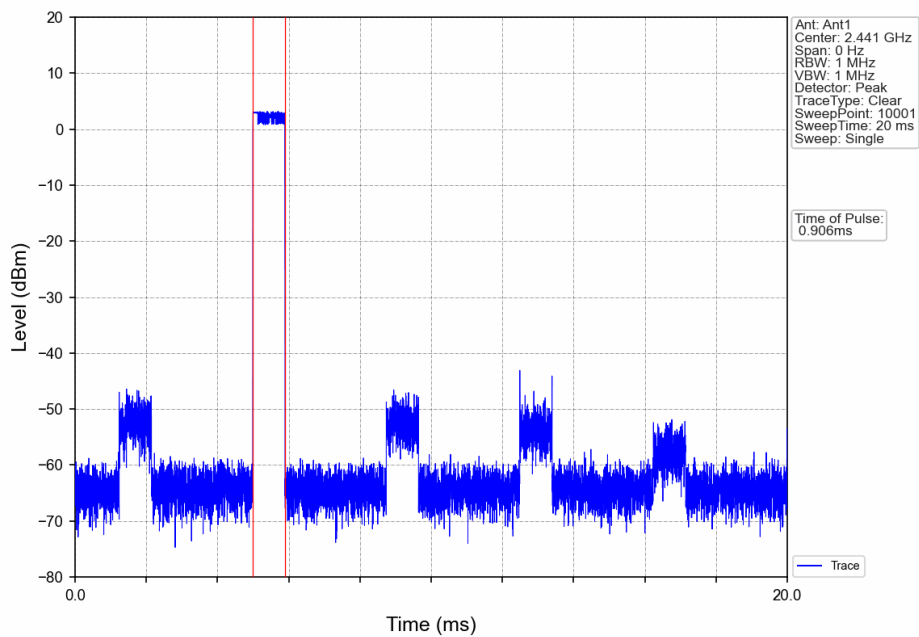
8DPSK_3DH3_HOPP_Ant1_NTNV



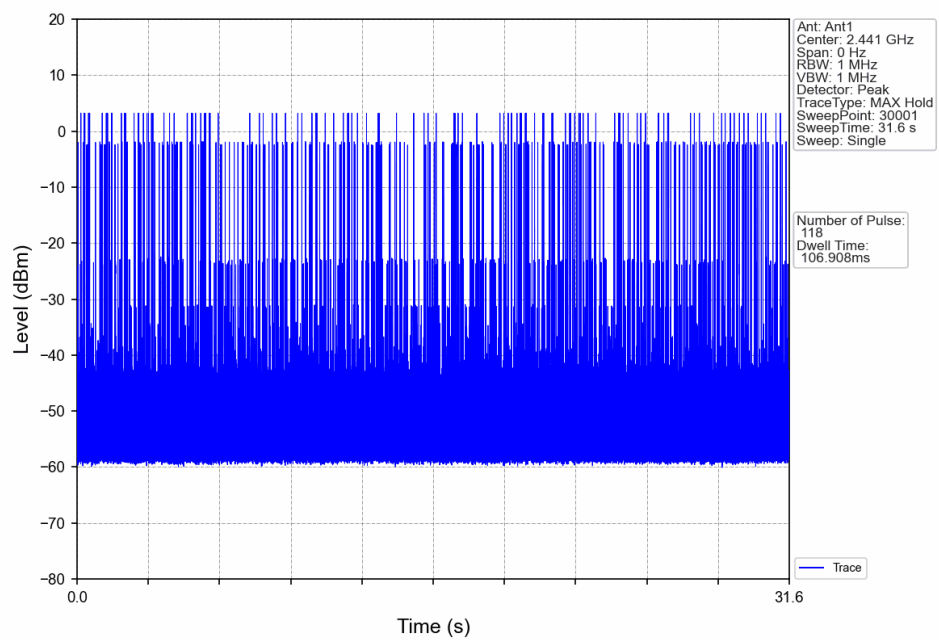
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

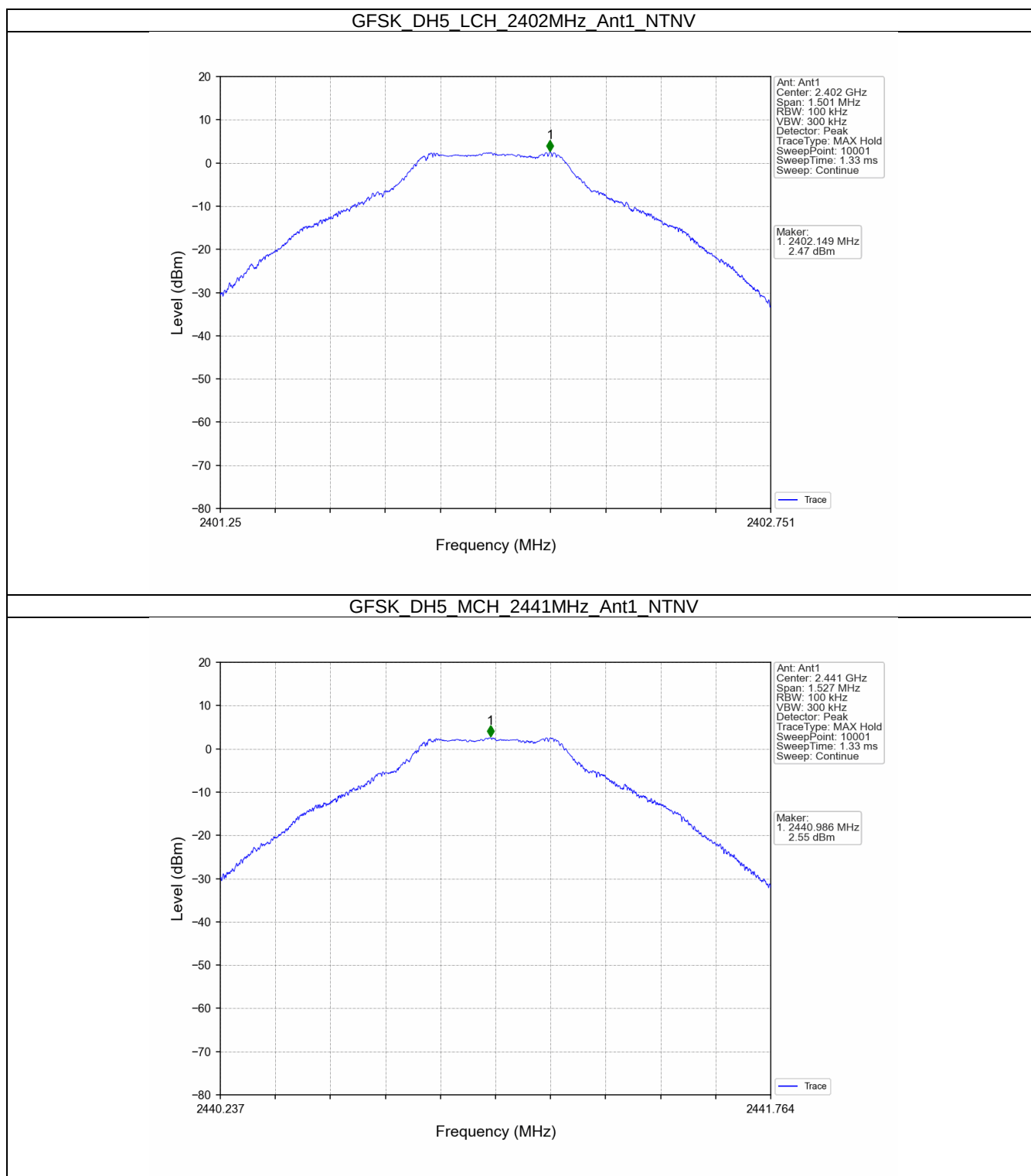
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.47
		2441	DH5	1	2.55
		2480	DH5	1	2.49
Pi/4DQPSK	SISO	2402	2DH5	1	2.51
		2441	2DH5	1	2.57
		2480	2DH5	1	2.43
8DPSK	SISO	2402	3DH5	1	2.80
		2441	3DH5	1	2.89
		2480	3DH5	1	2.76

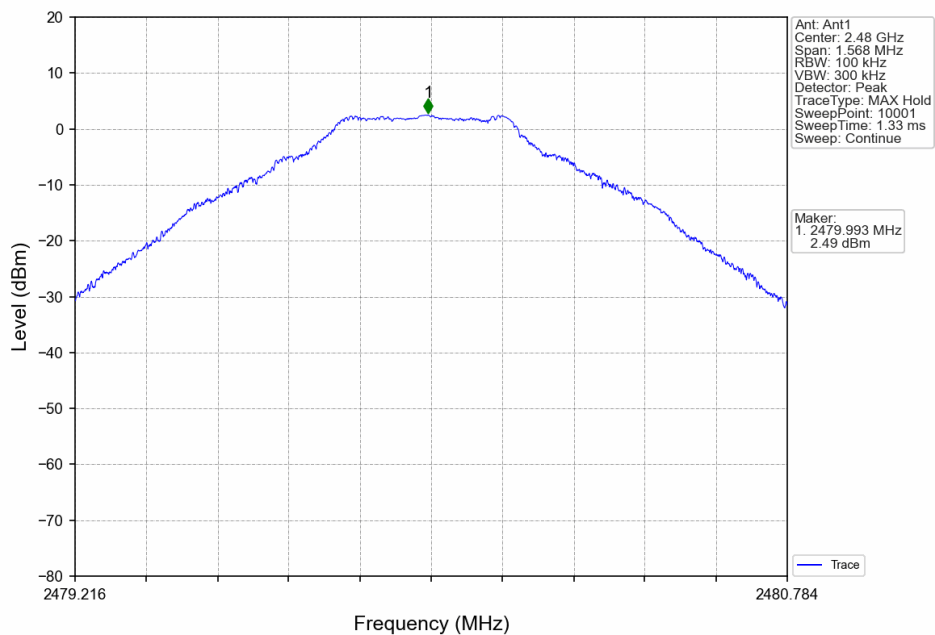
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.

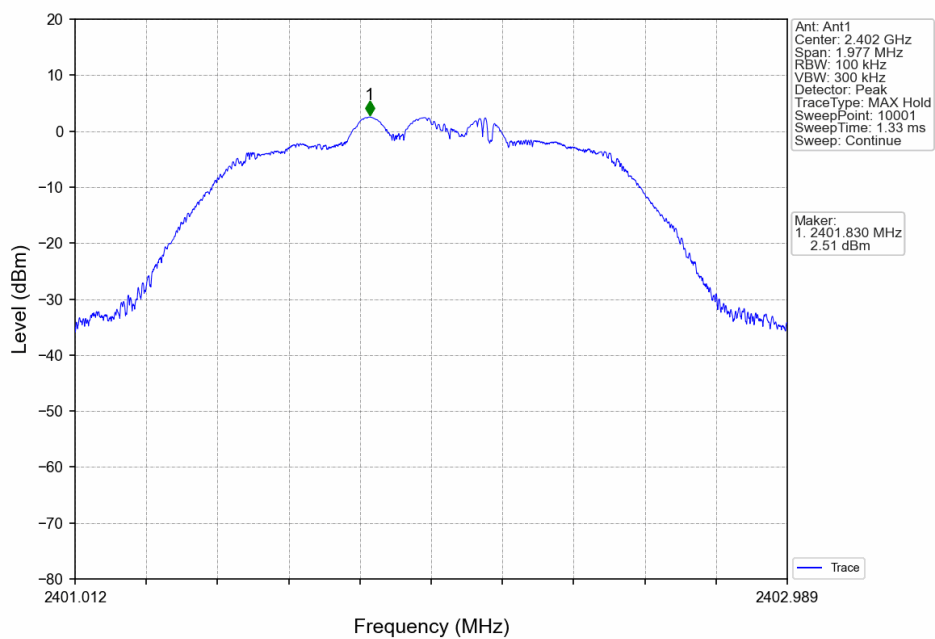
6.1.2 Test Graph



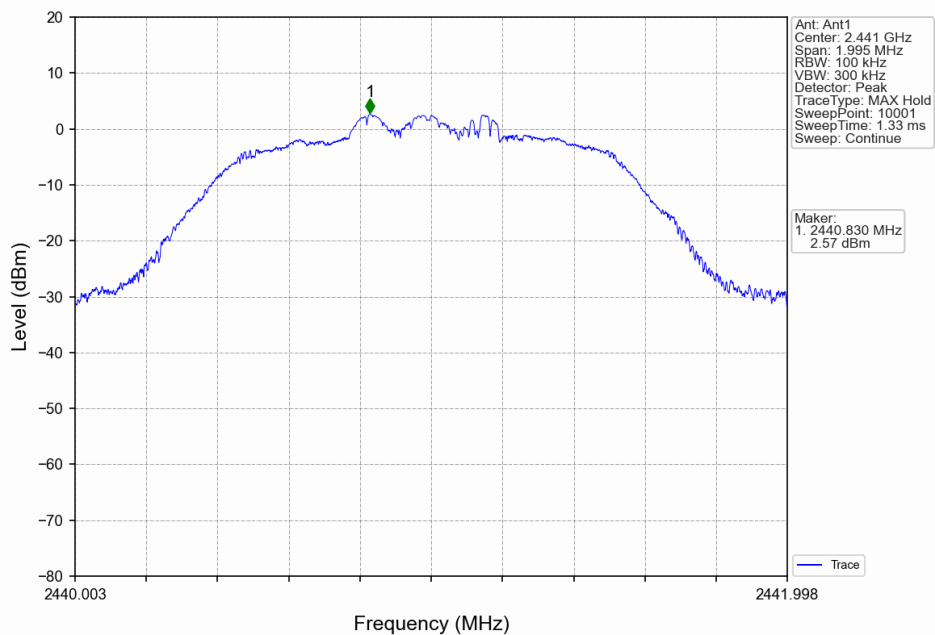
GFSK DH5 HCH 2480MHz Ant1 NTN



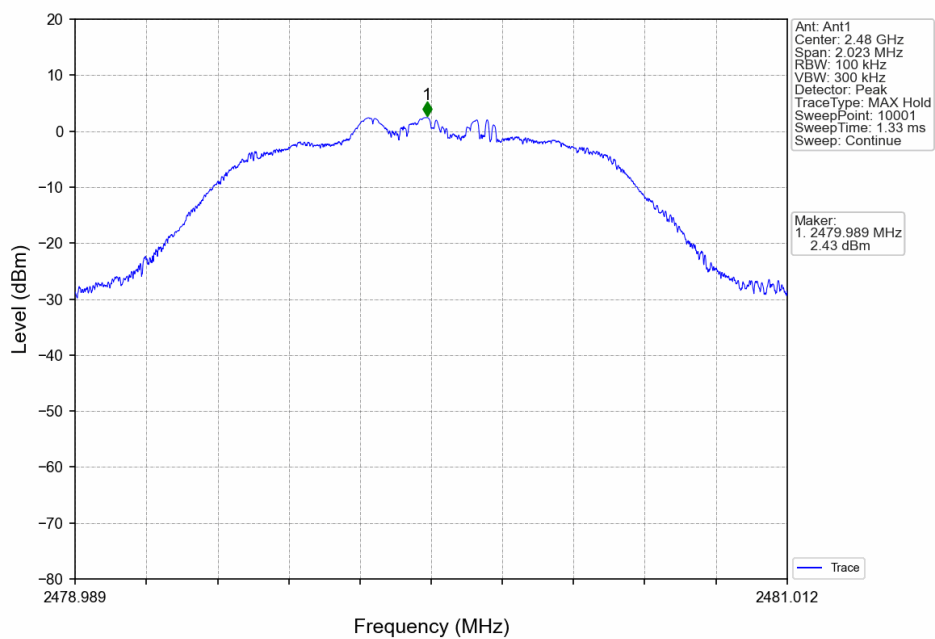
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



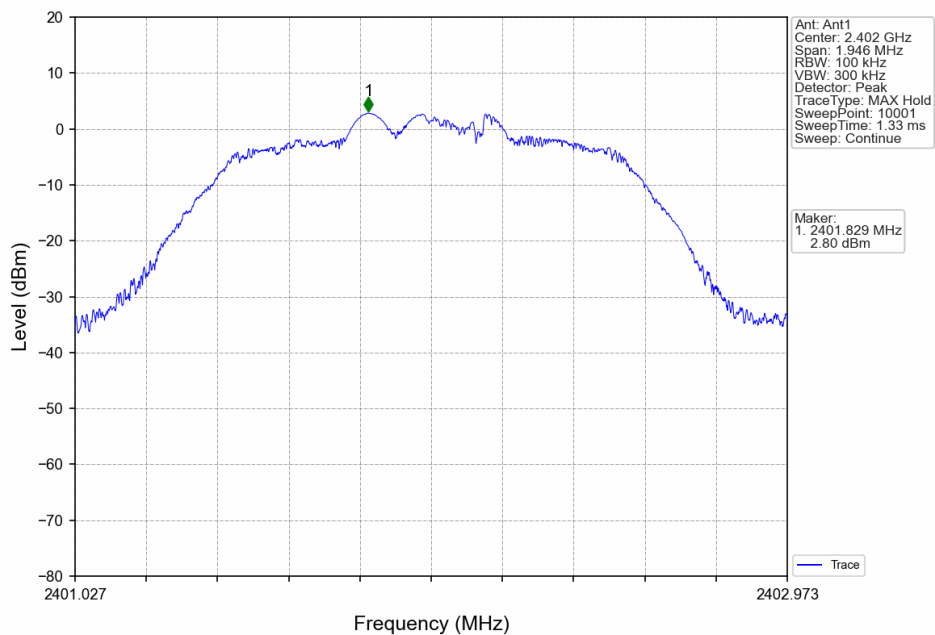
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



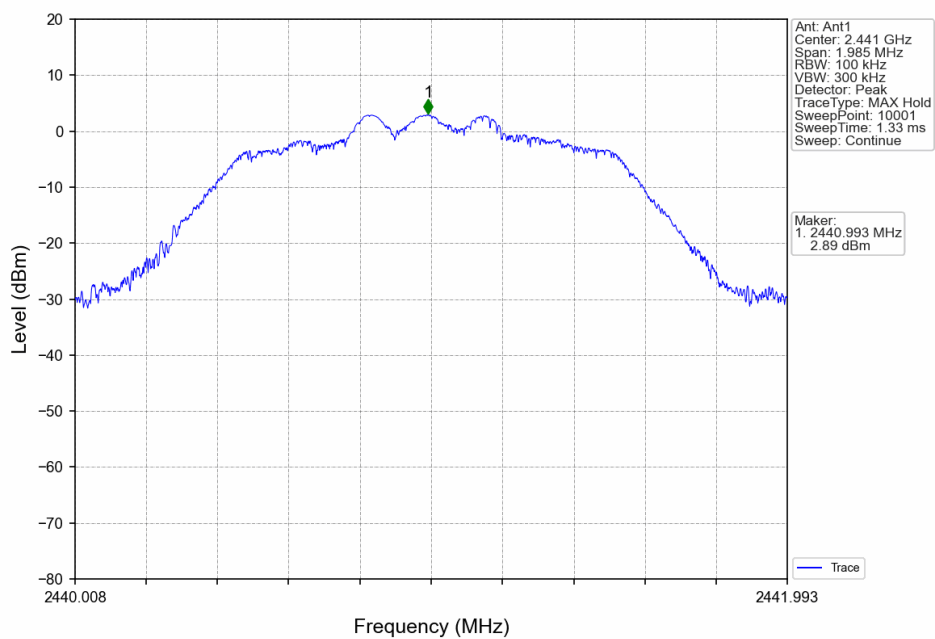
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

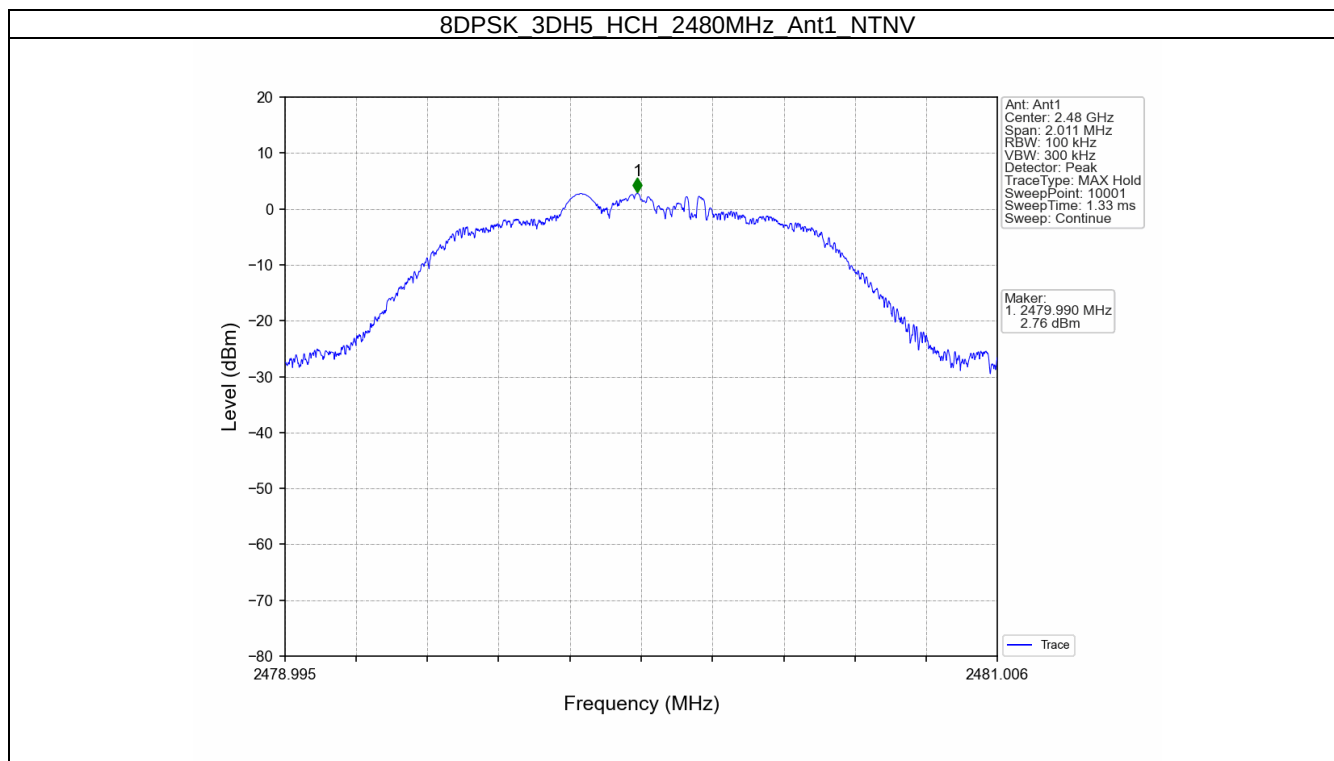


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





6.2 CSE

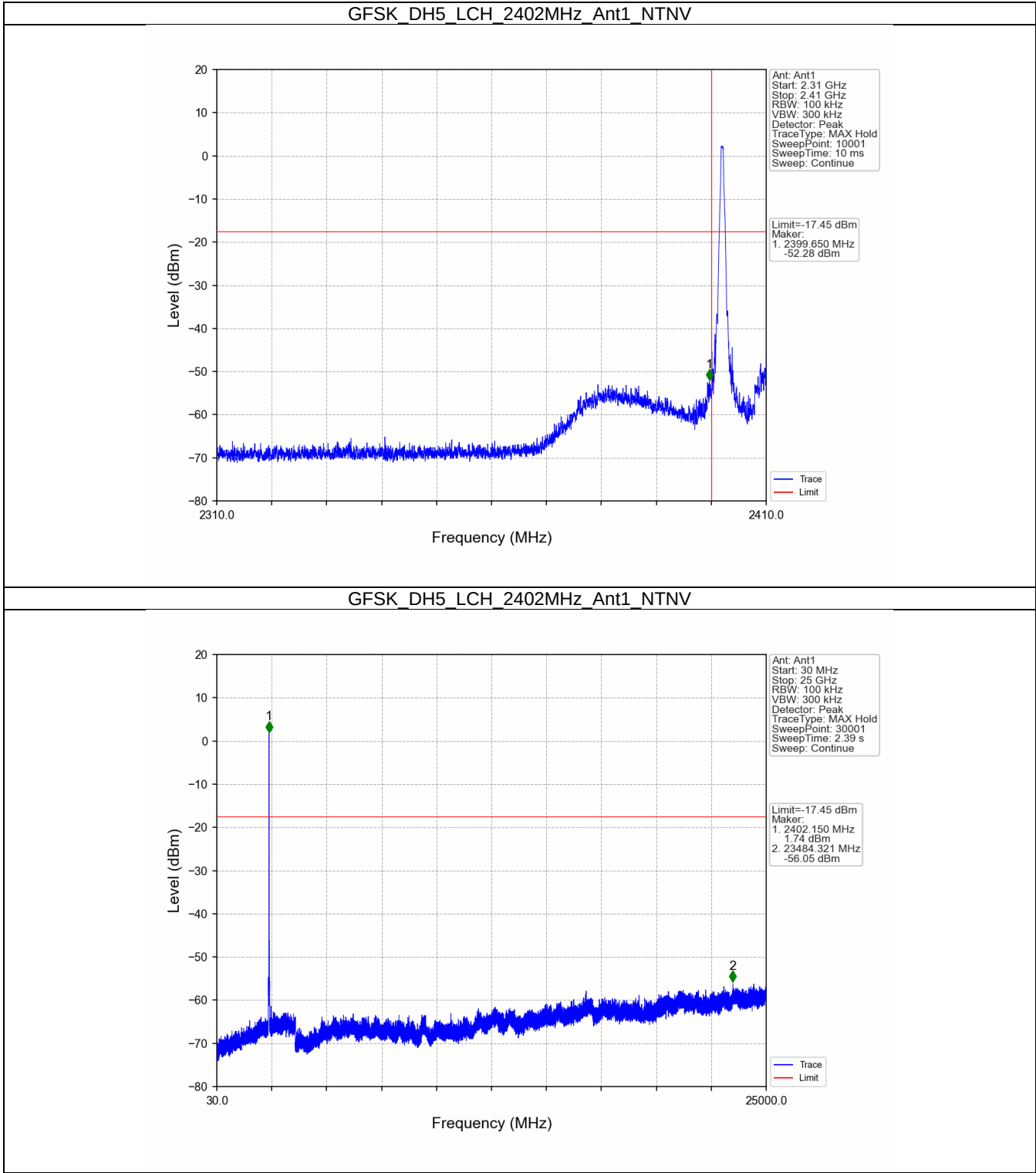
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.55	-17.45	Pass
		2441	DH5	1	2.55	-17.45	Pass
		2480	DH5	1	2.55	-17.45	Pass
		HOPP	DH5	1	2.55	-17.45	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.57	-17.43	Pass
		2441	2DH5	1	2.57	-17.43	Pass
		2480	2DH5	1	2.57	-17.43	Pass
		HOPP	2DH5	1	2.57	-17.43	Pass
8DPSK	SISO	2402	3DH5	1	2.89	-17.11	Pass
		2441	3DH5	1	2.89	-17.11	Pass
		2480	3DH5	1	2.89	-17.11	Pass
		HOPP	3DH5	1	2.89	-17.11	Pass

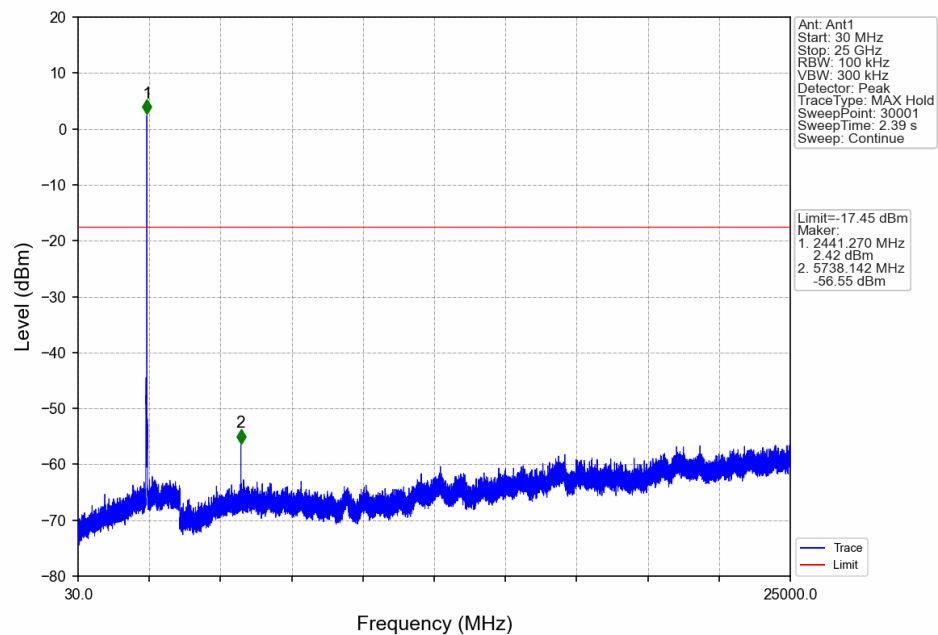
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.

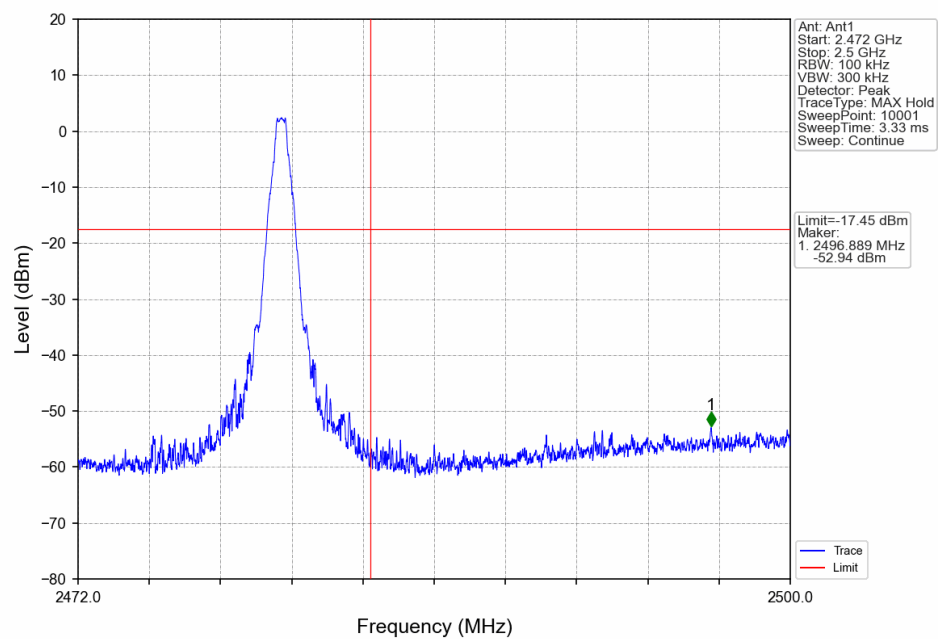
6.2.2 Test Graph

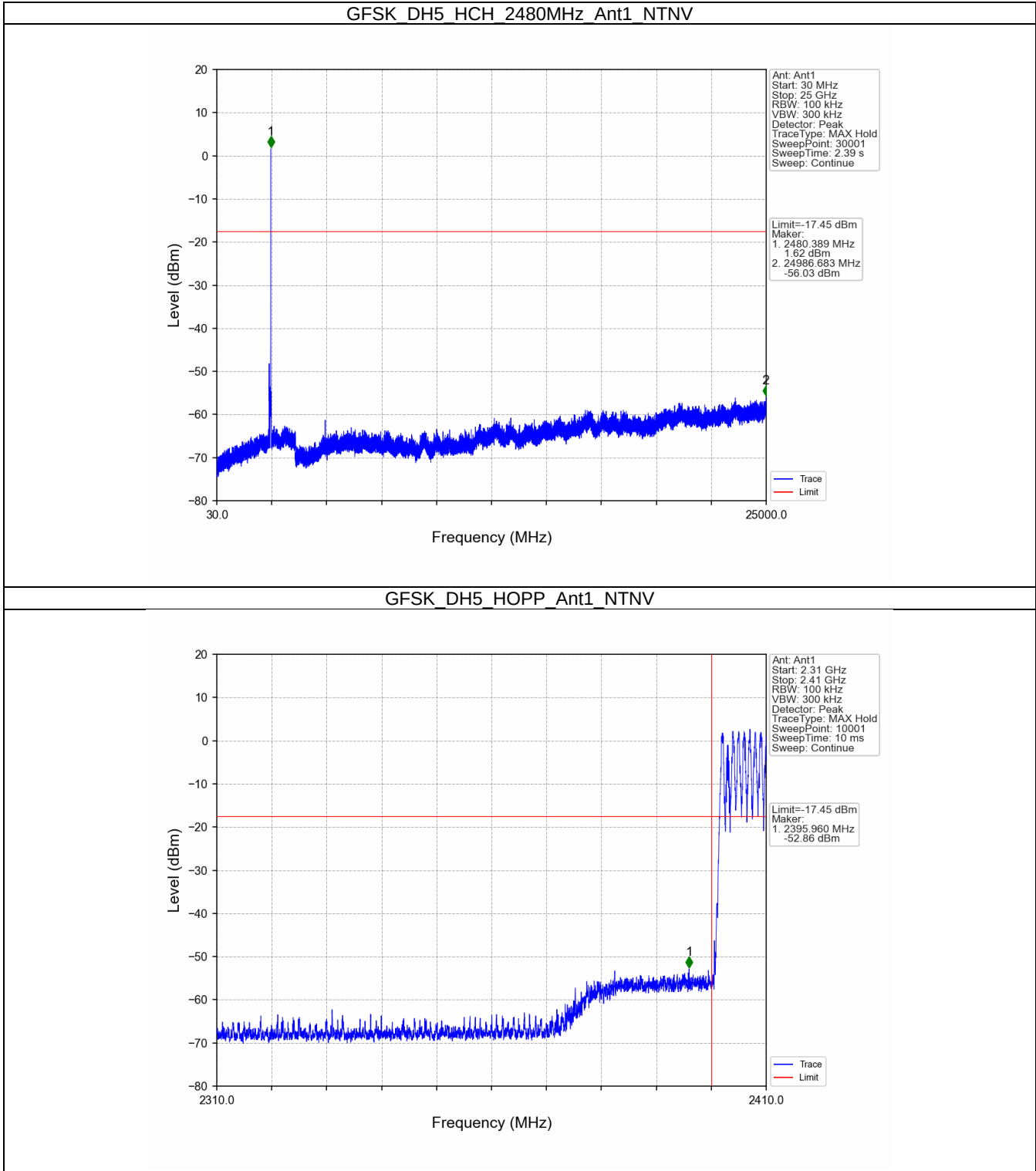


GFSK DH5 MCH 2441MHz Ant1 NTN

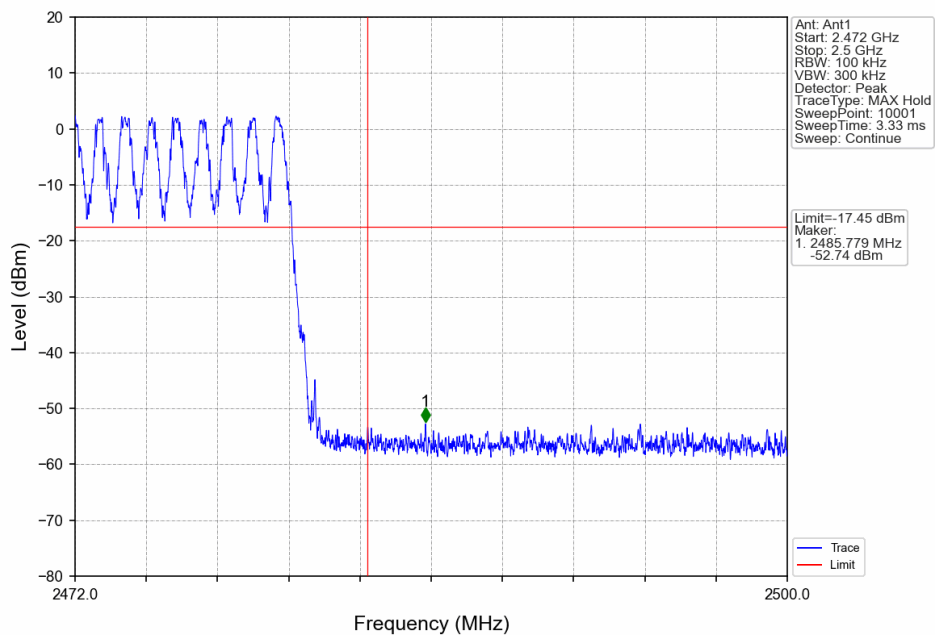


GFSK_DH5_HCH_2480MHz_Ant1_NTN

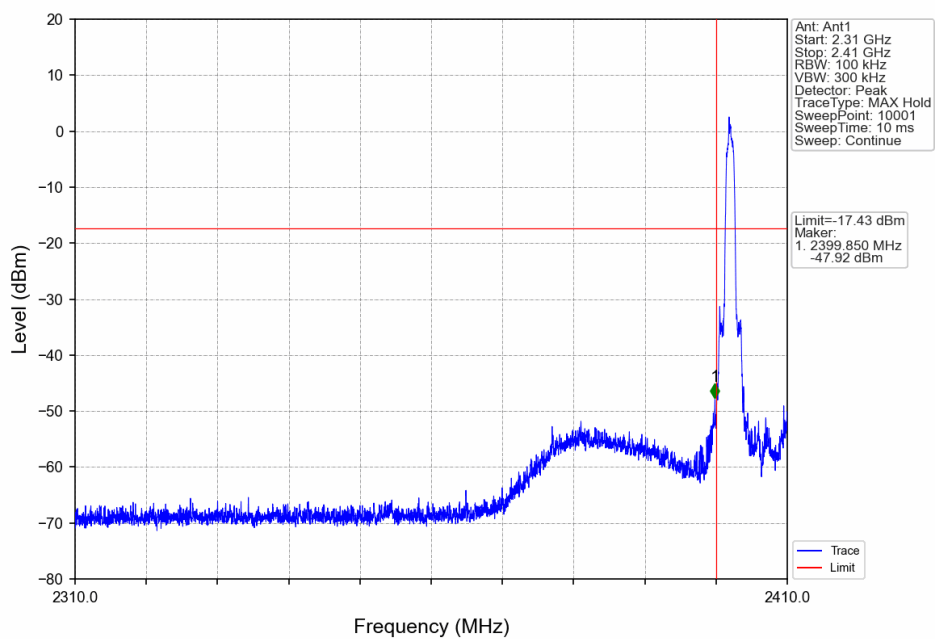




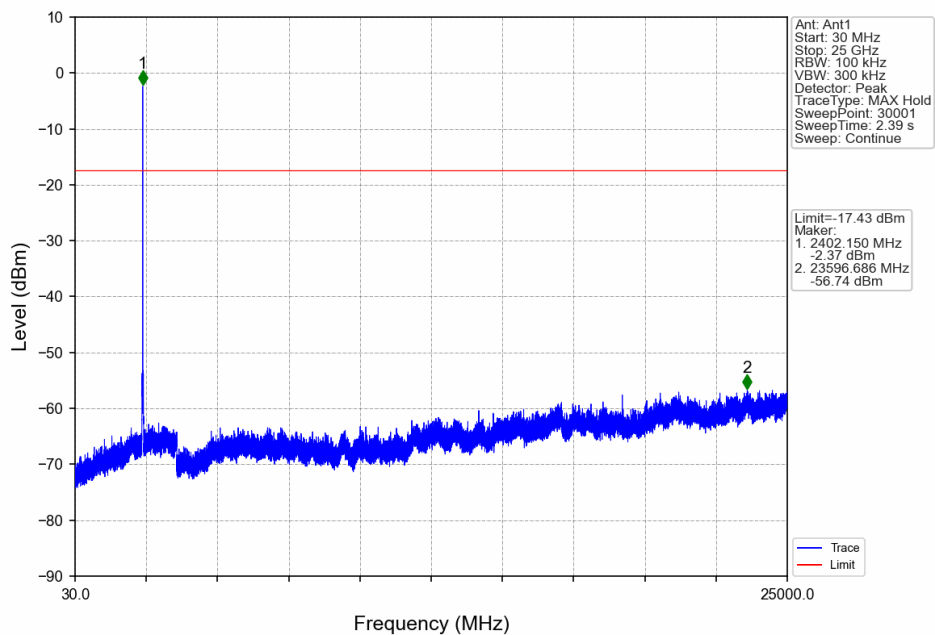
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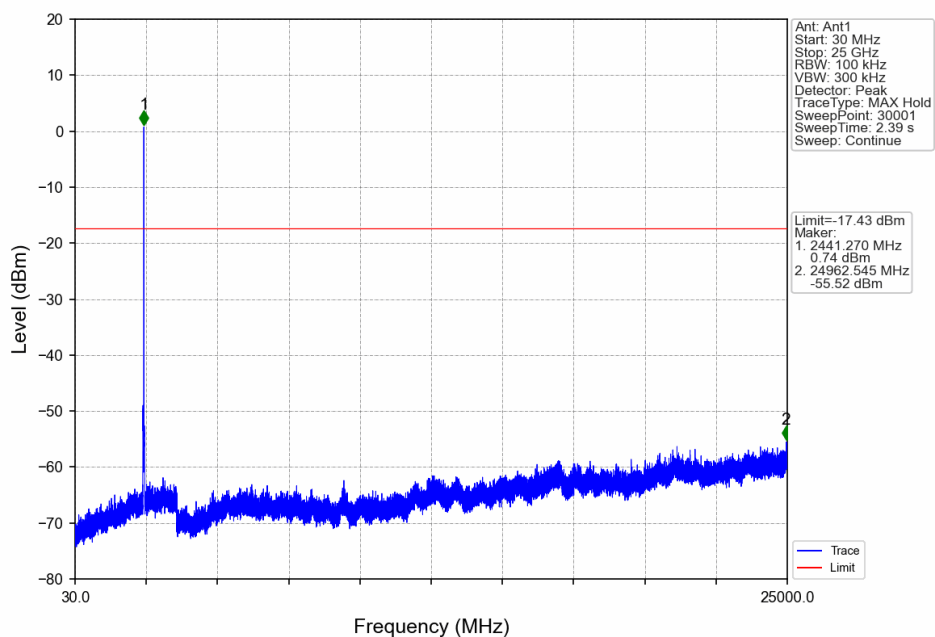
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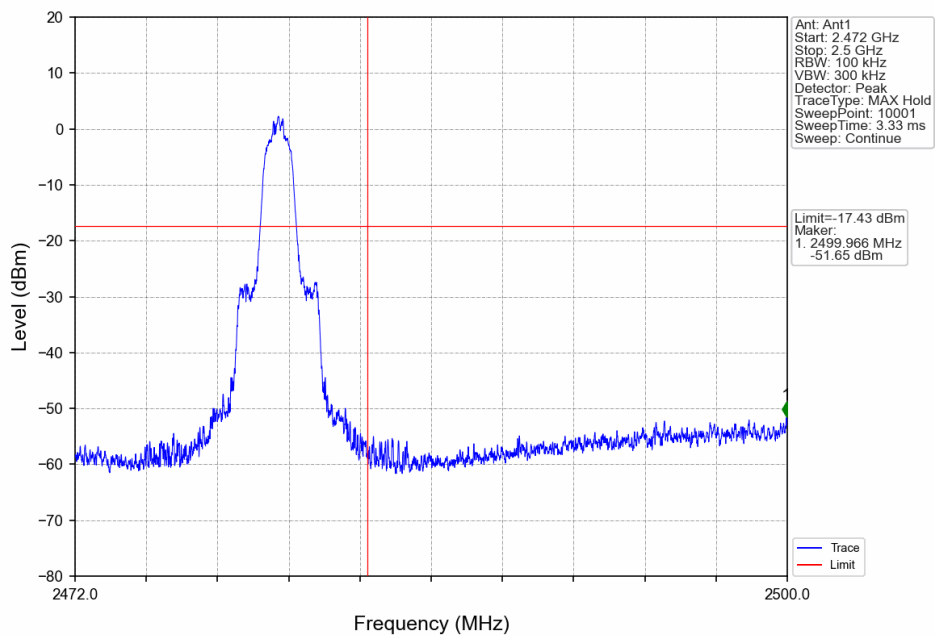
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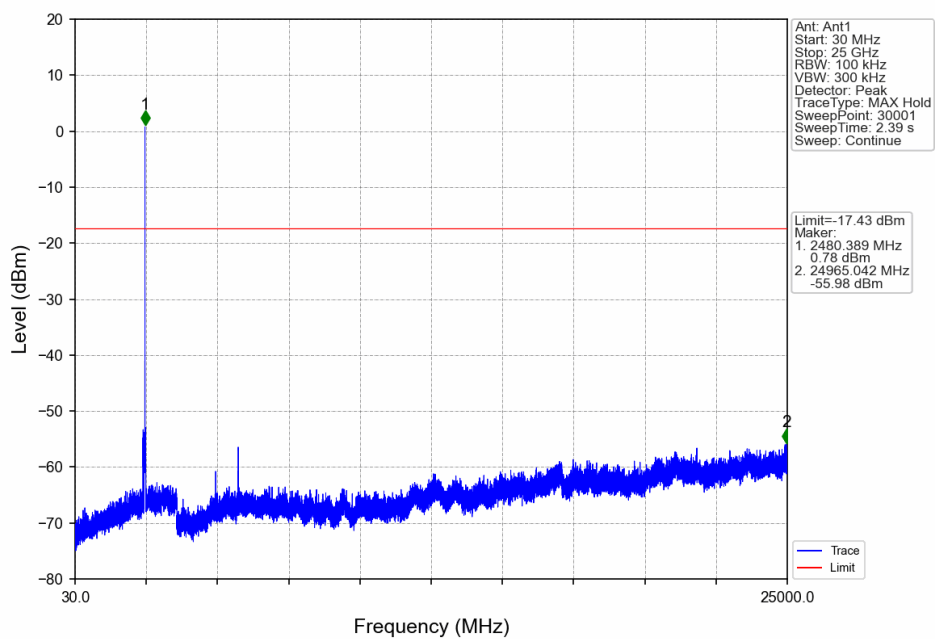
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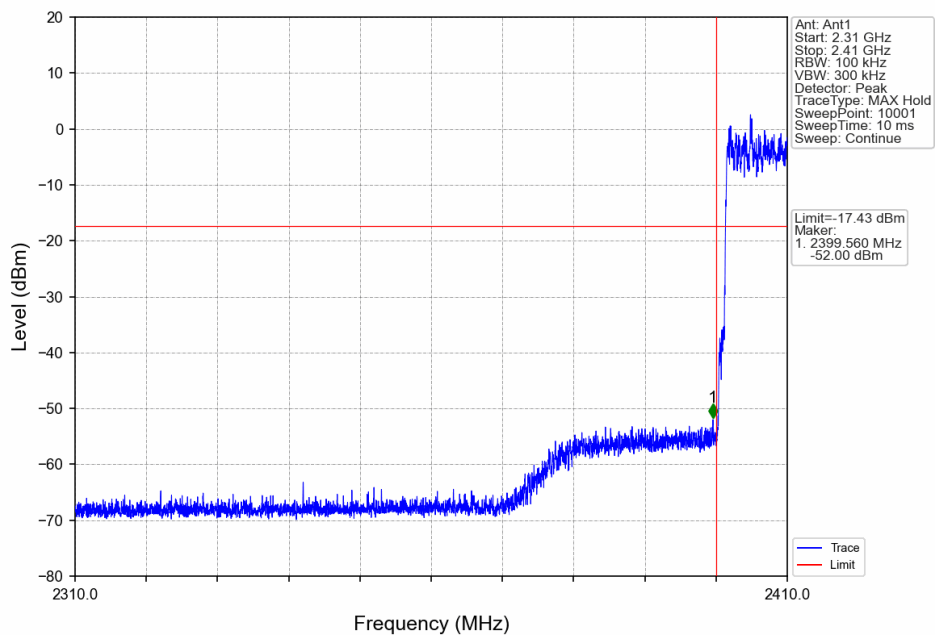
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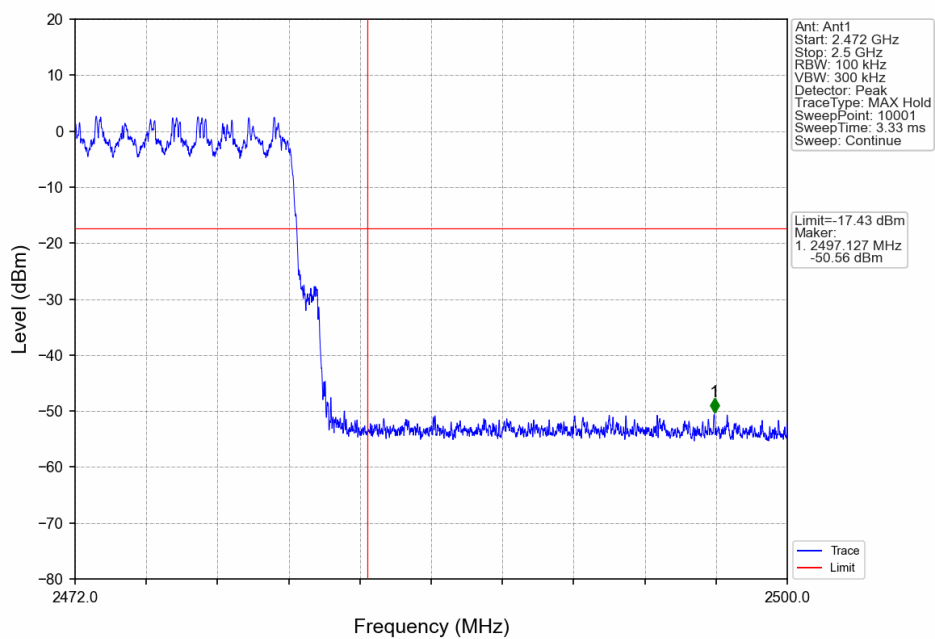
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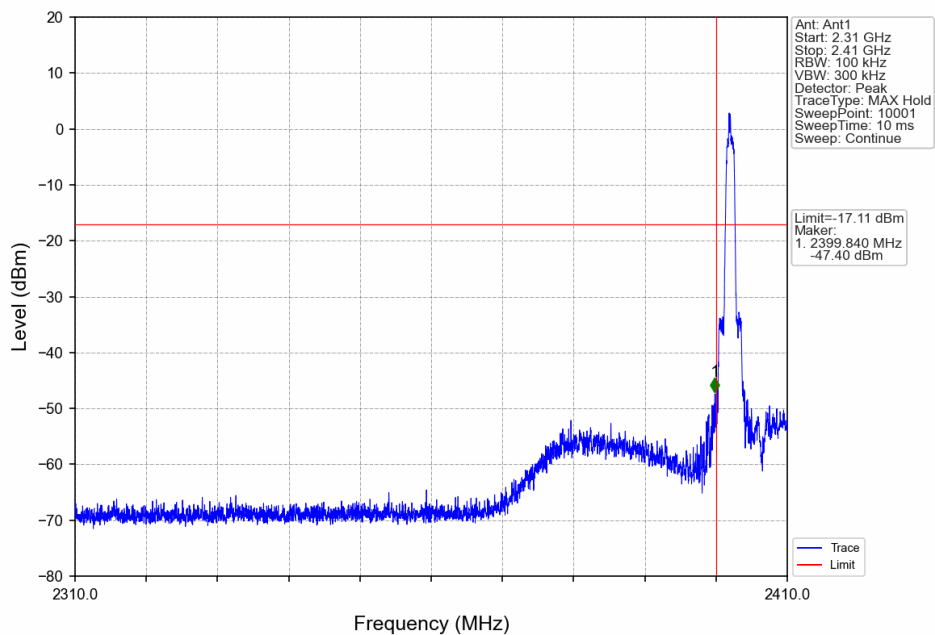
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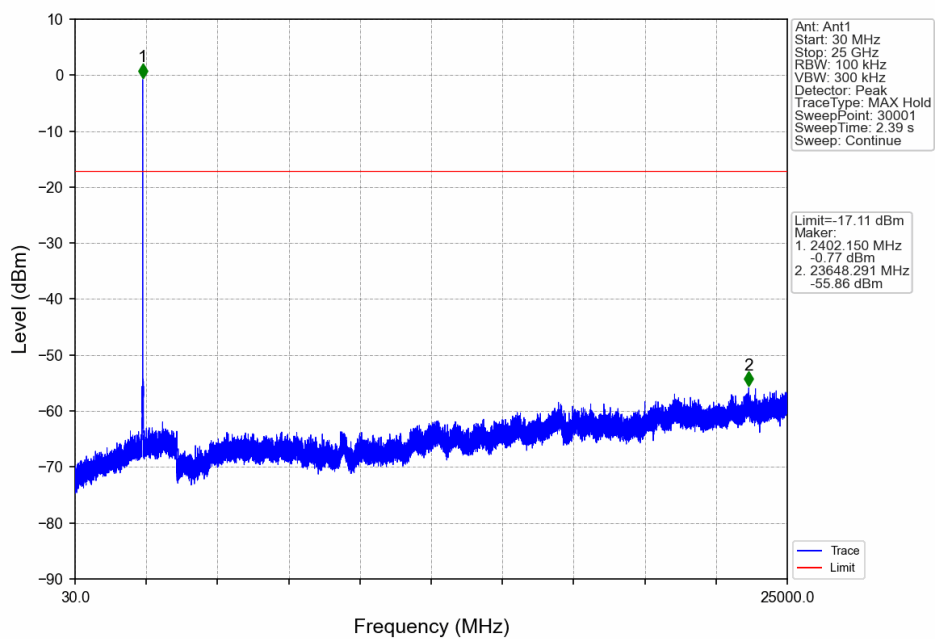
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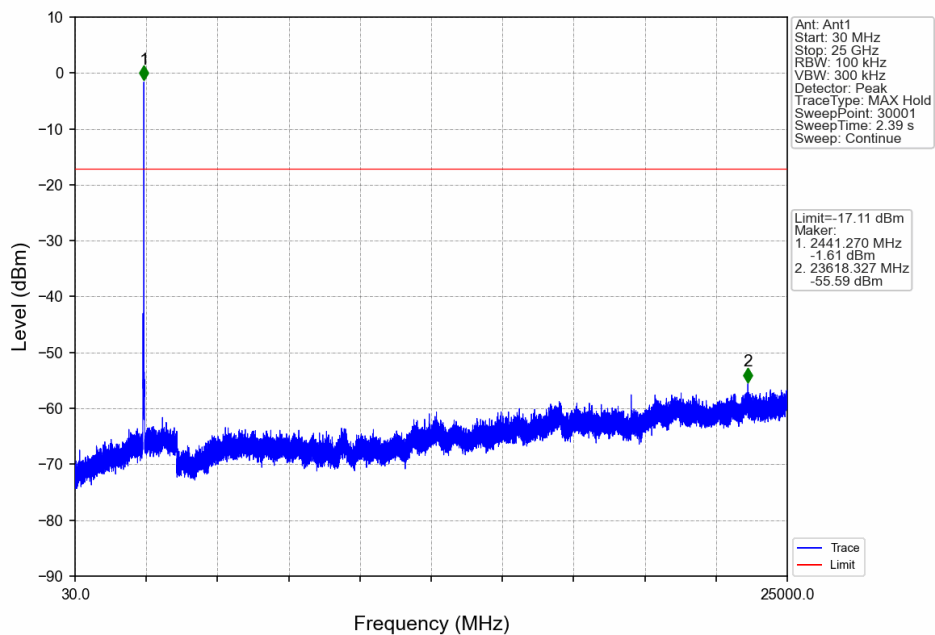
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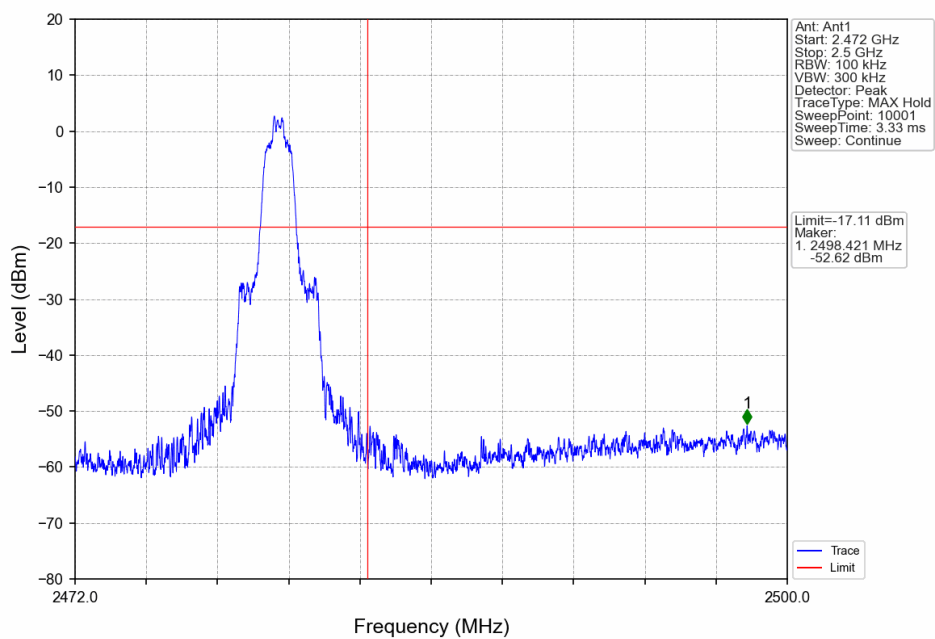
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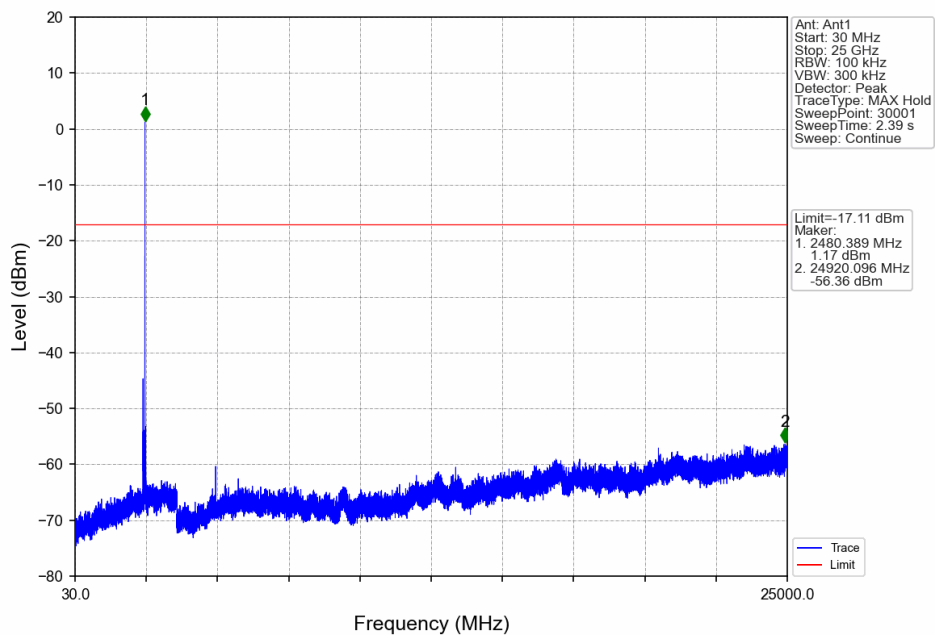
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HOPP Ant1 NTN

