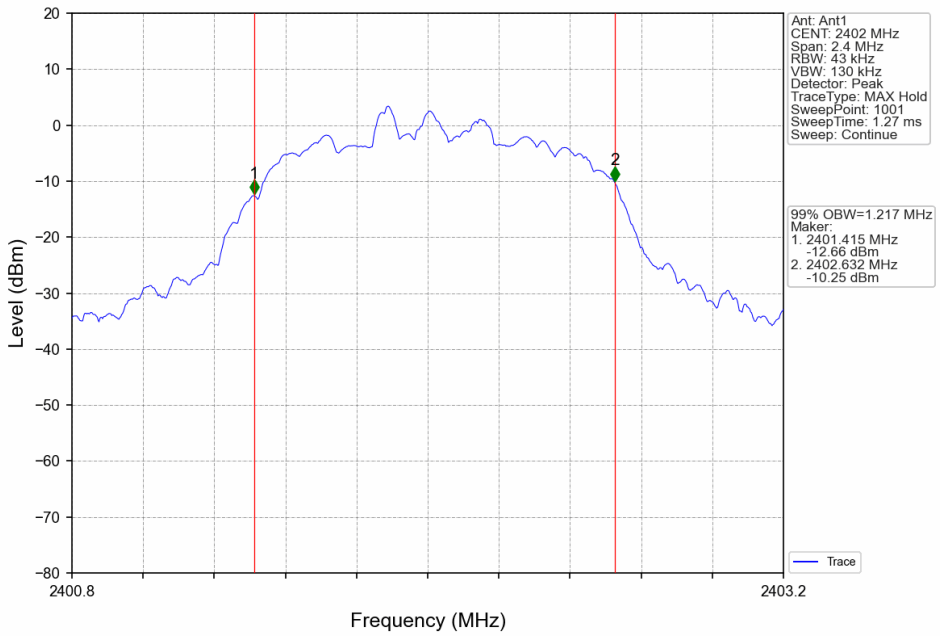
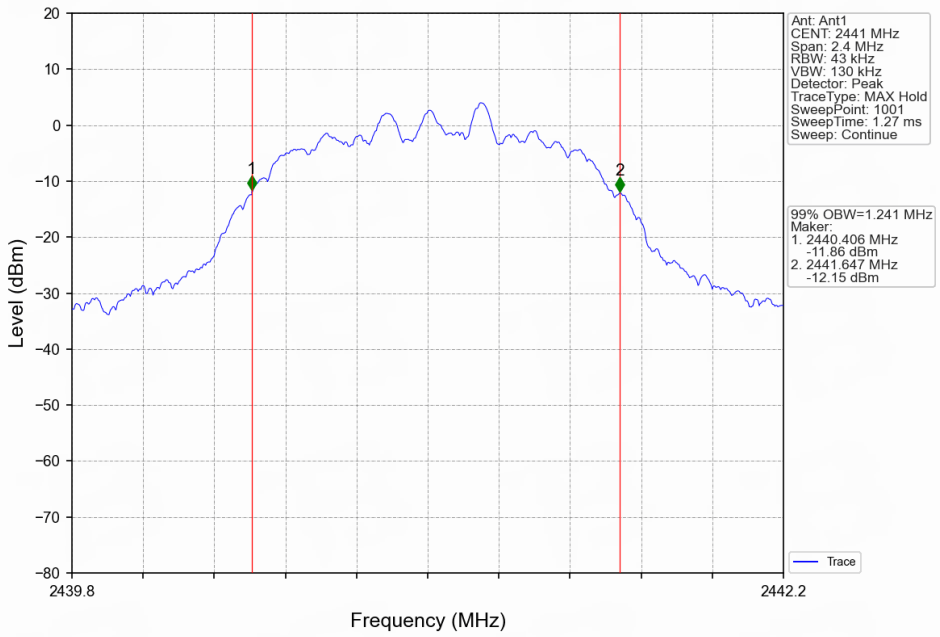
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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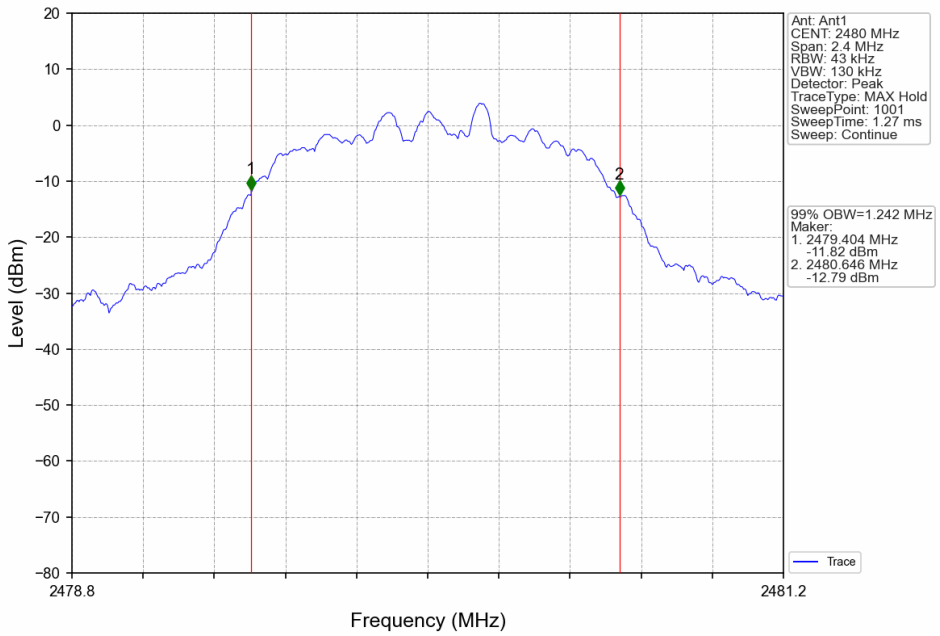
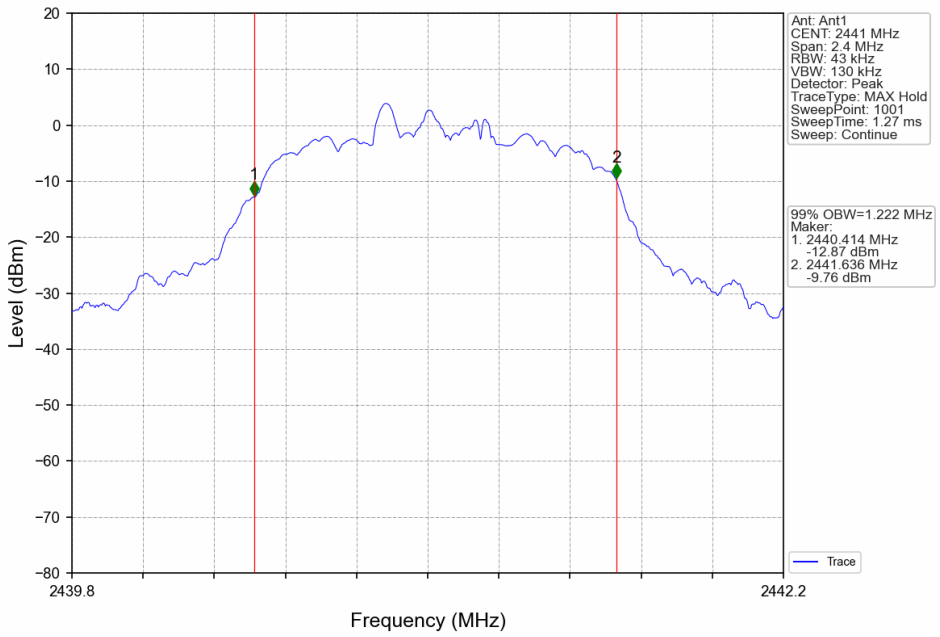
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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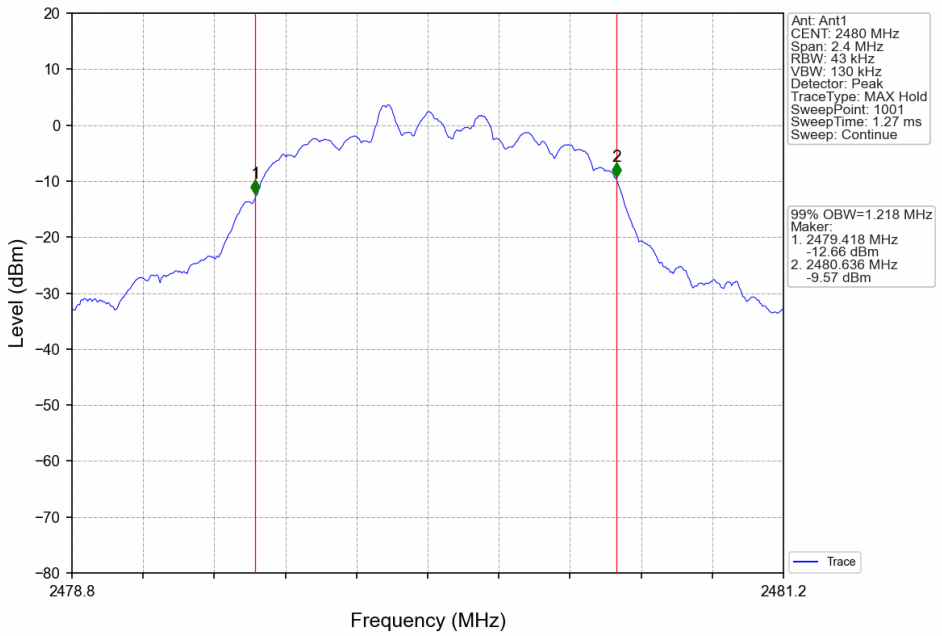
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz) Result	Verdict
GFSK	SISO	2402	DH5	1	1.055	Pass
		2441	DH5	1	1.065	Pass
		2480	DH5	1	1.066	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.343	Pass
8DPSK	SISO	2402	3DH5	1	1.315	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.351	Pass
		2480	2DH5	1	1.359	Pass
8DPSK	SISO	2441	3DH5	1	1.310	Pass
		2480	3DH5	1	1.323	Pass

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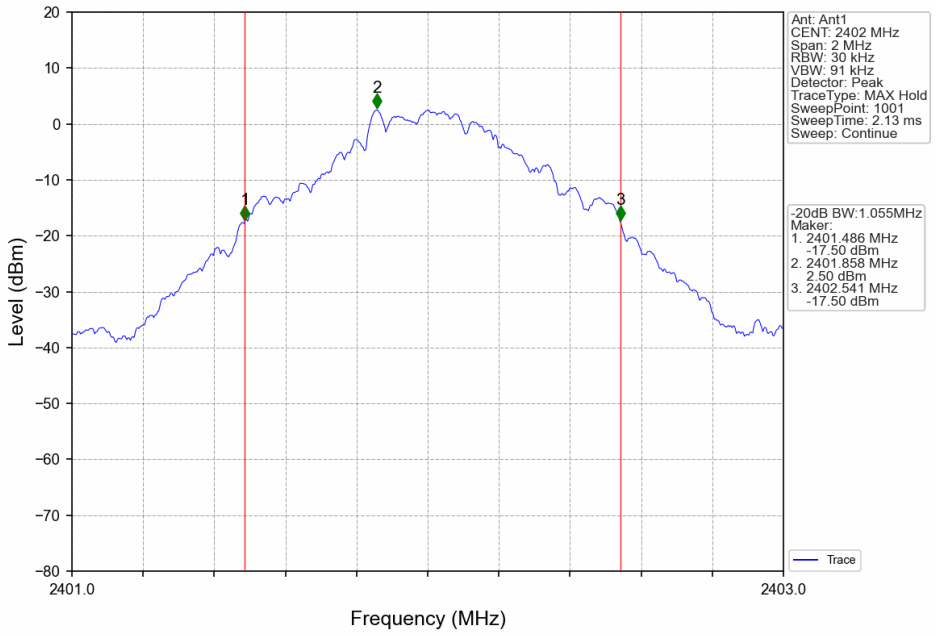
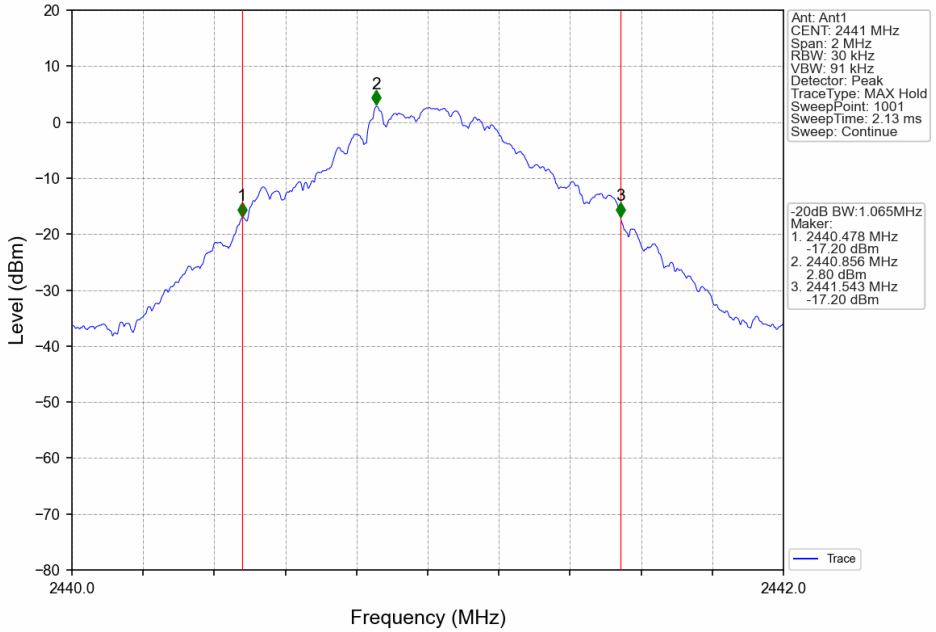
1.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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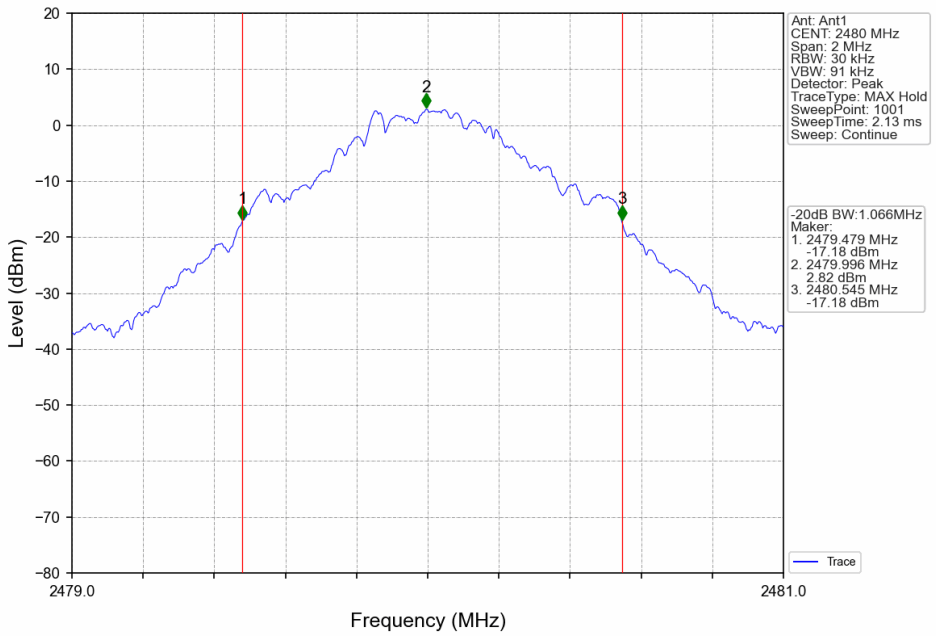
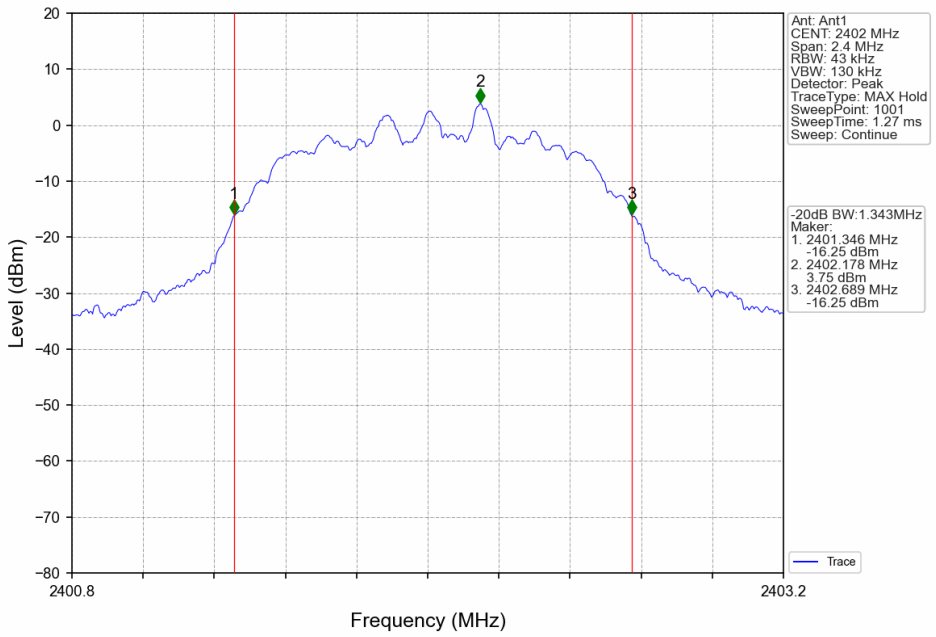
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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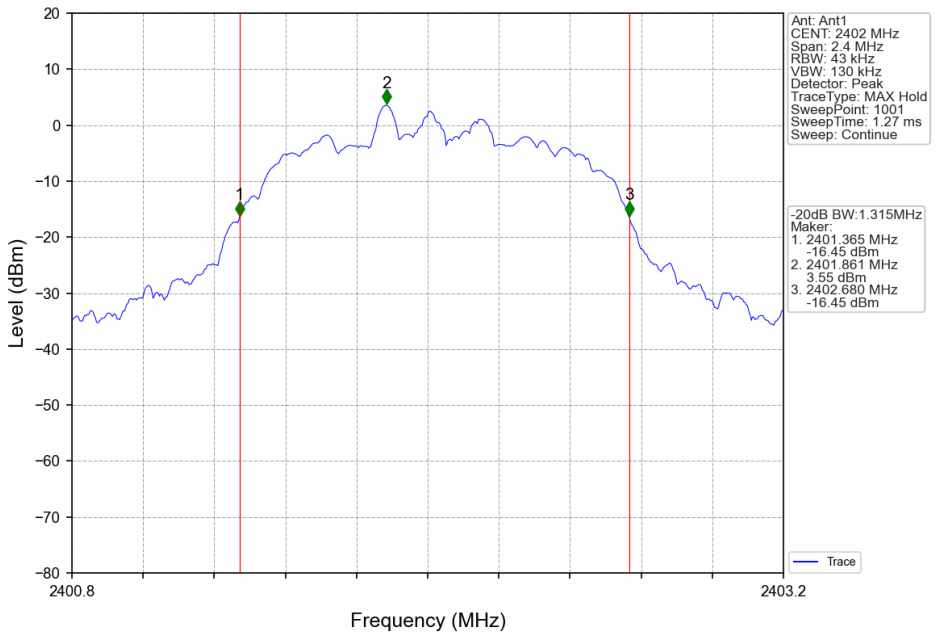
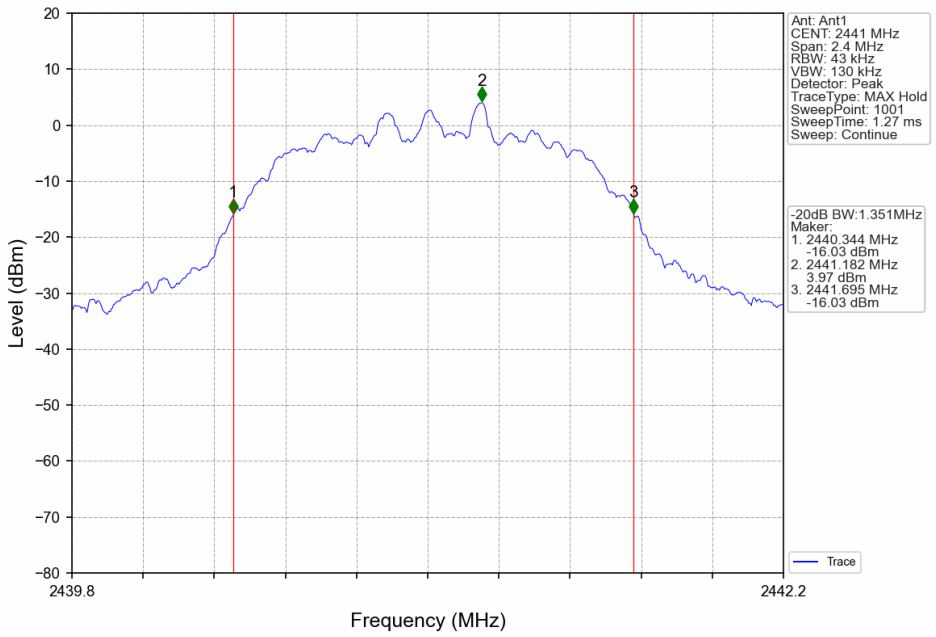
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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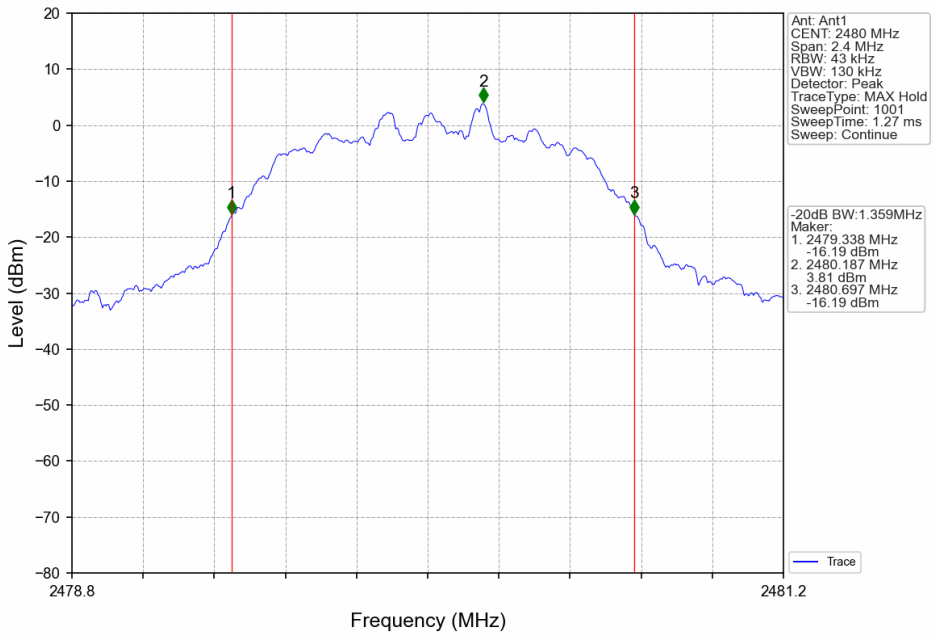
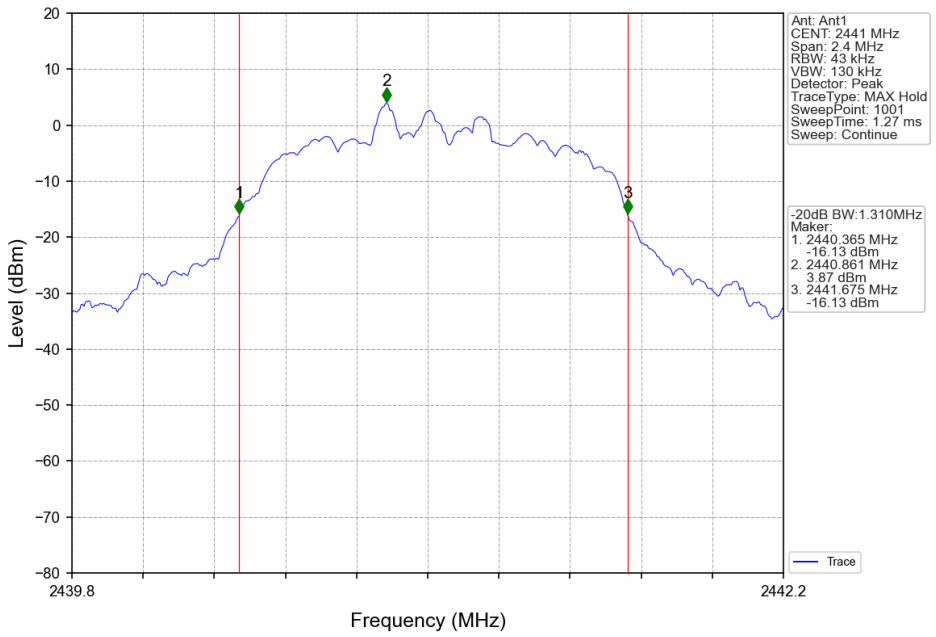
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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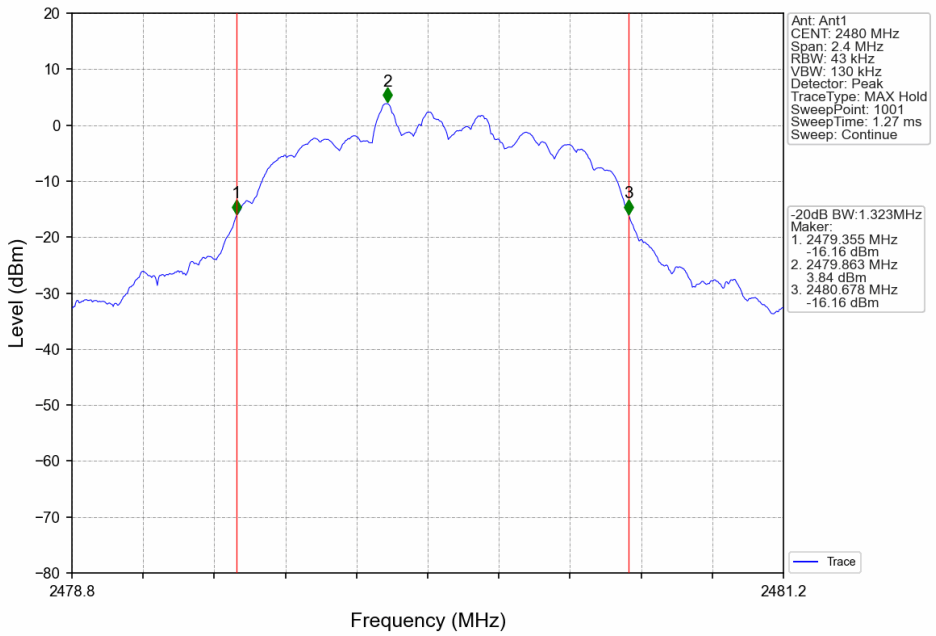
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	4.70	<=20.97	Pass
		2441	DH5	5.02	<=20.97	Pass
		2480	DH5	5.09	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	5.35	<=20.97	Pass
8DPSK	SISO	2402	3DH5	5.57	<=20.97	Pass
Pi/4DQPSK	SISO	2441	2DH5	5.63	<=20.97	Pass
		2480	2DH5	5.65	<=20.97	Pass
8DPSK	SISO	2441	3DH5	5.89	<=20.97	Pass
		2480	3DH5	5.89	<=20.97	Pass
Note1: Antenna Gain: Ant1: 0.00dBi;						

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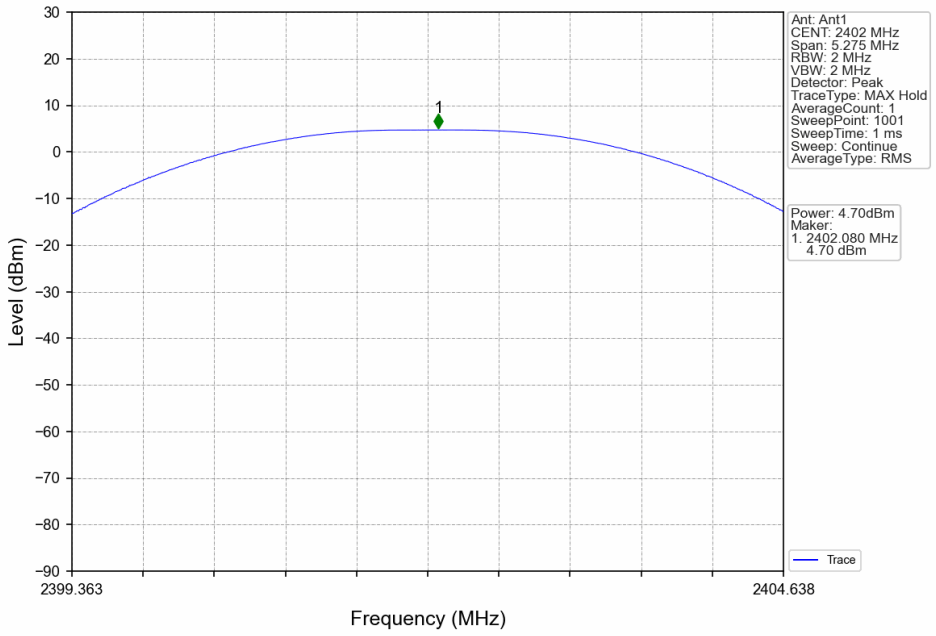
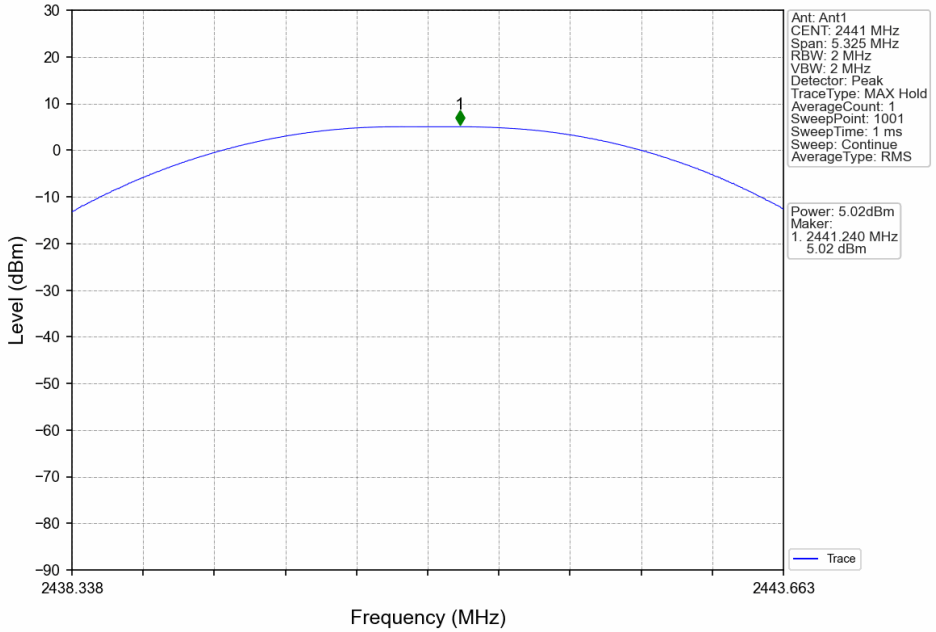
2.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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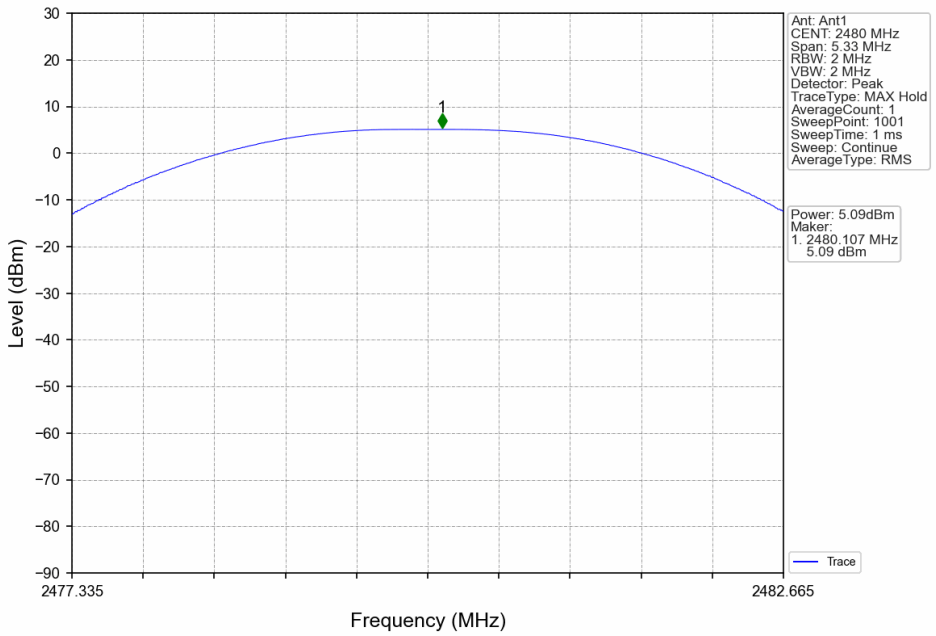
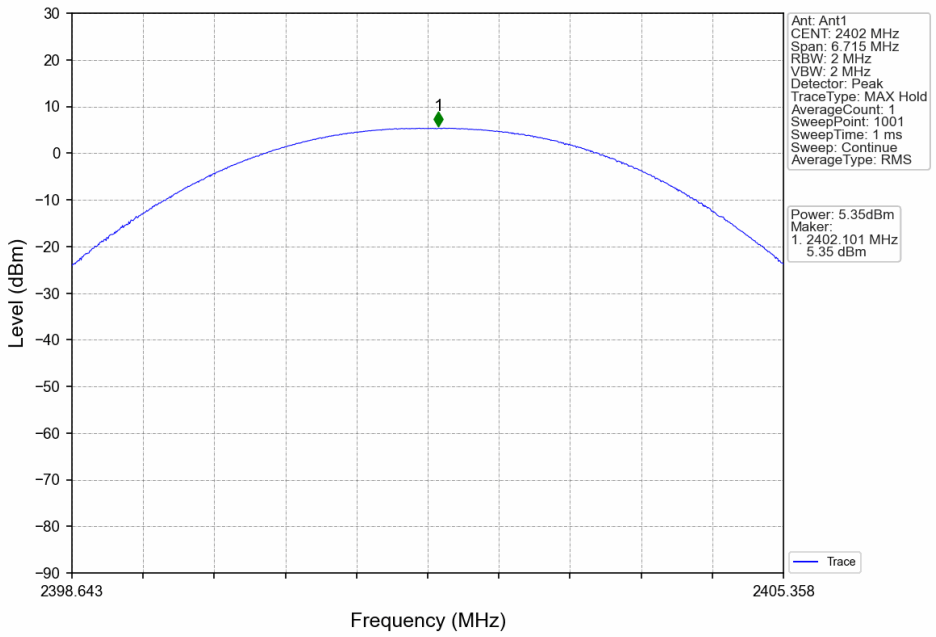
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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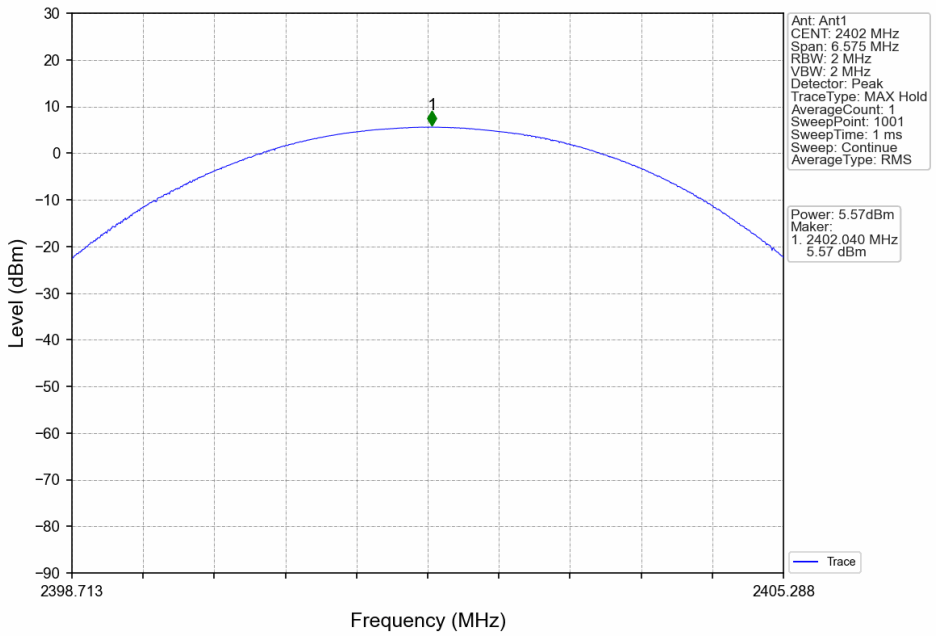
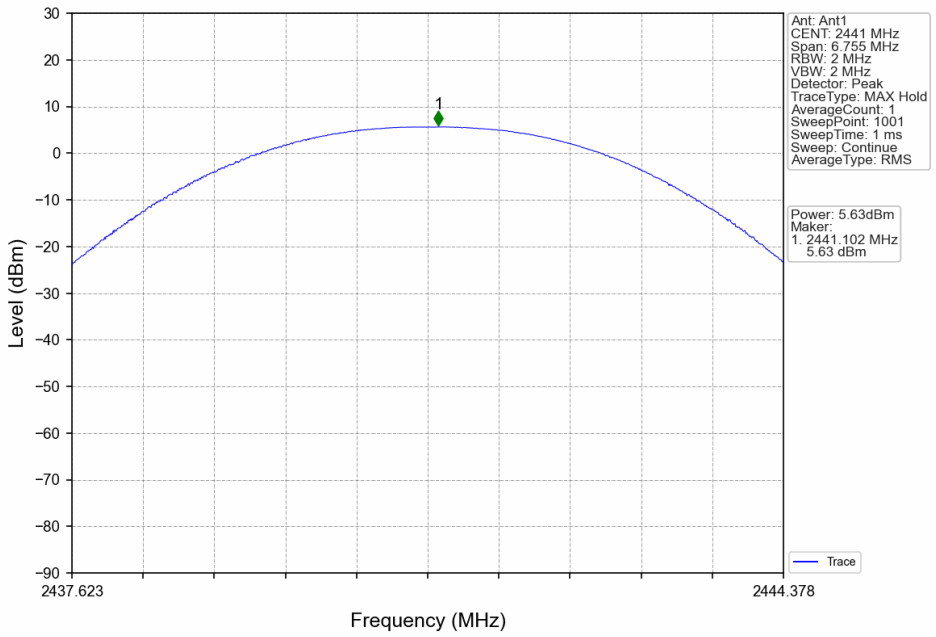
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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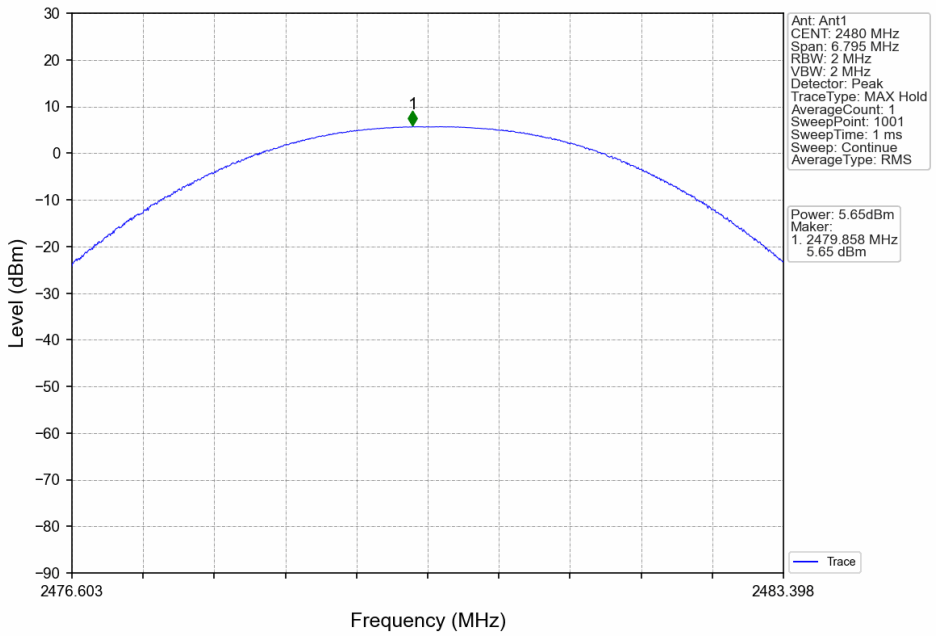
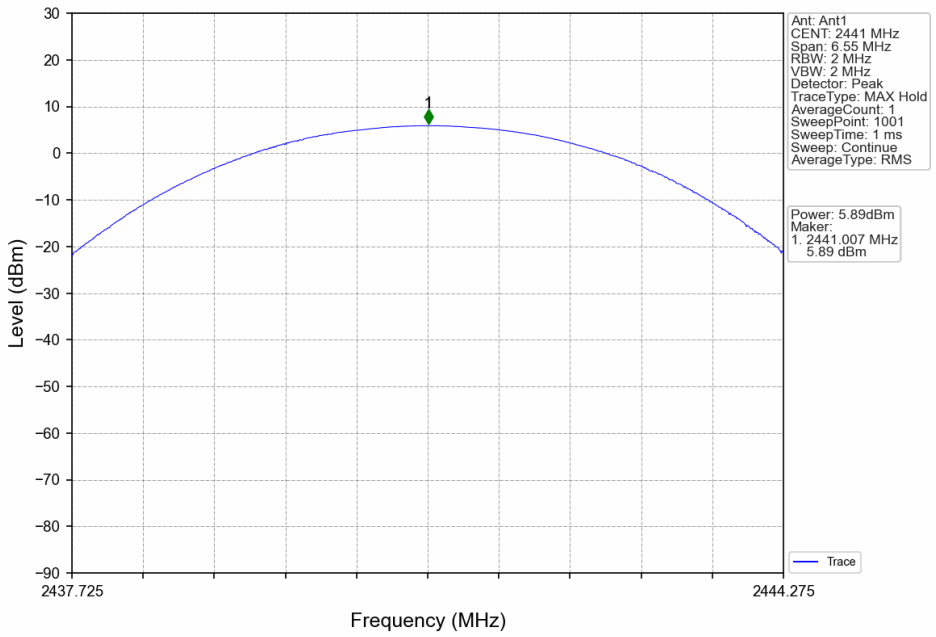
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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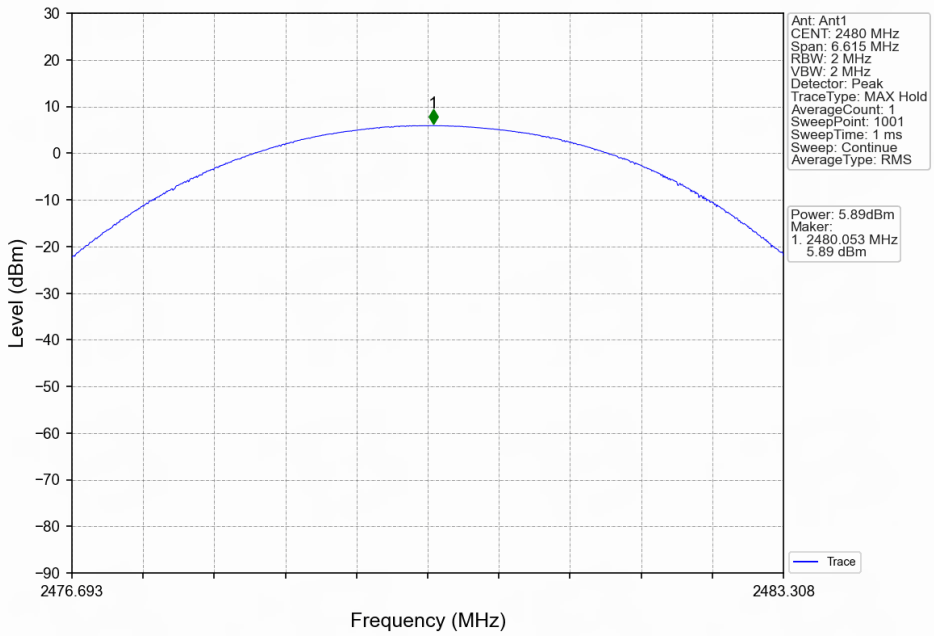
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	1.014	1.066	>=0.711	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.008	1.359	>=0.906	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.323	>=0.882	Pass

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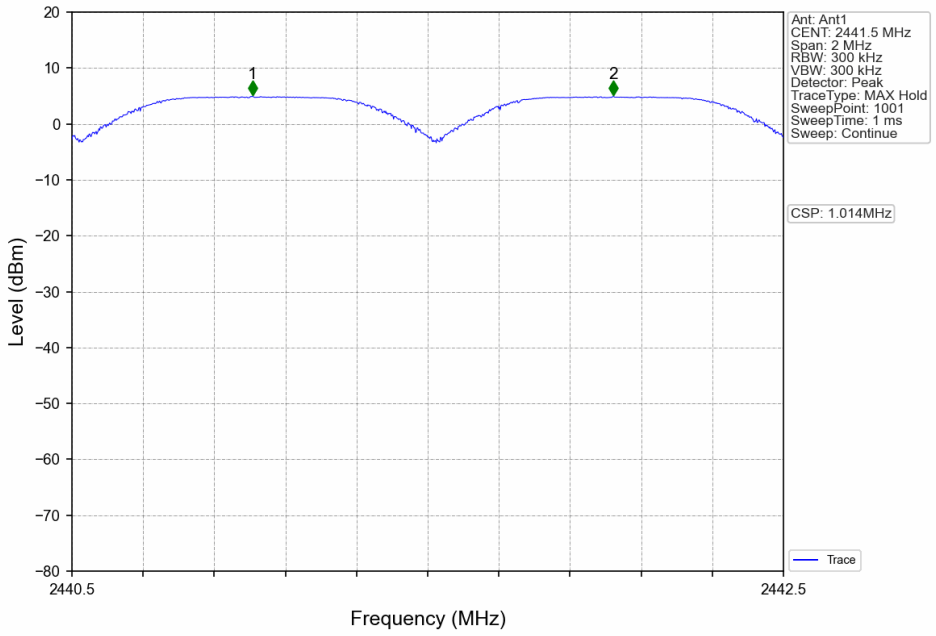
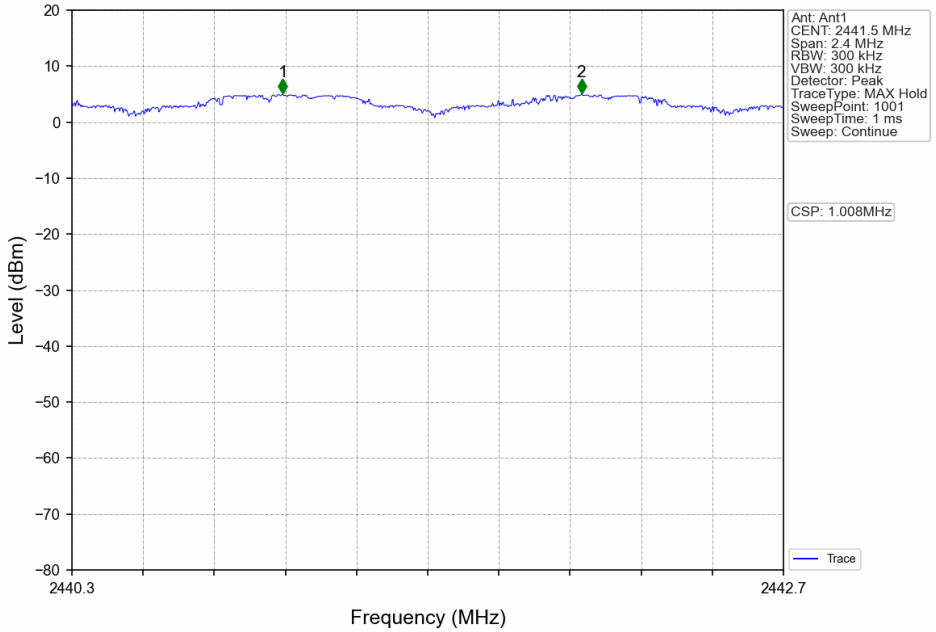
3.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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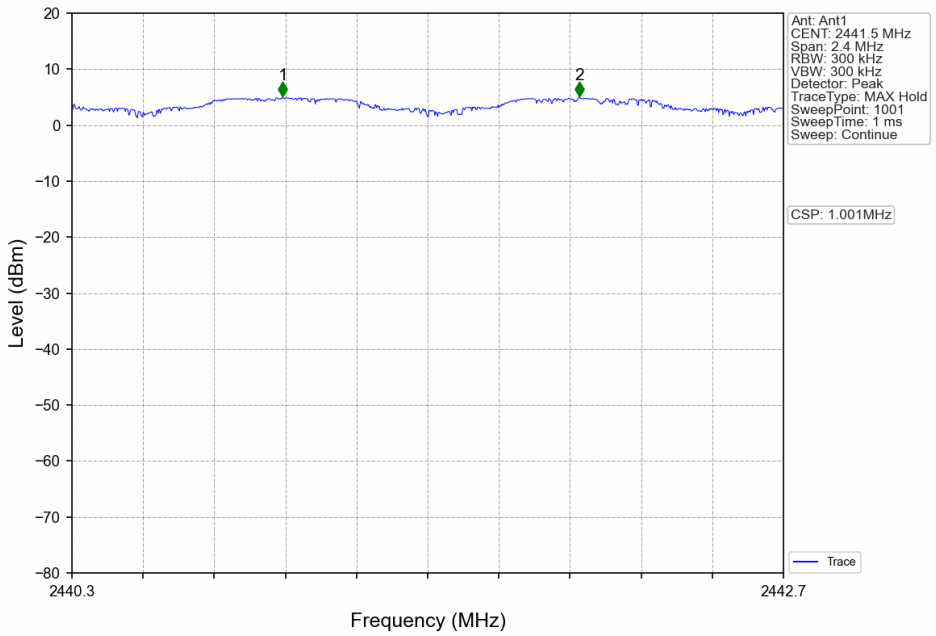
8DPSK_3DH5_HOPP_Ant1_NTNV



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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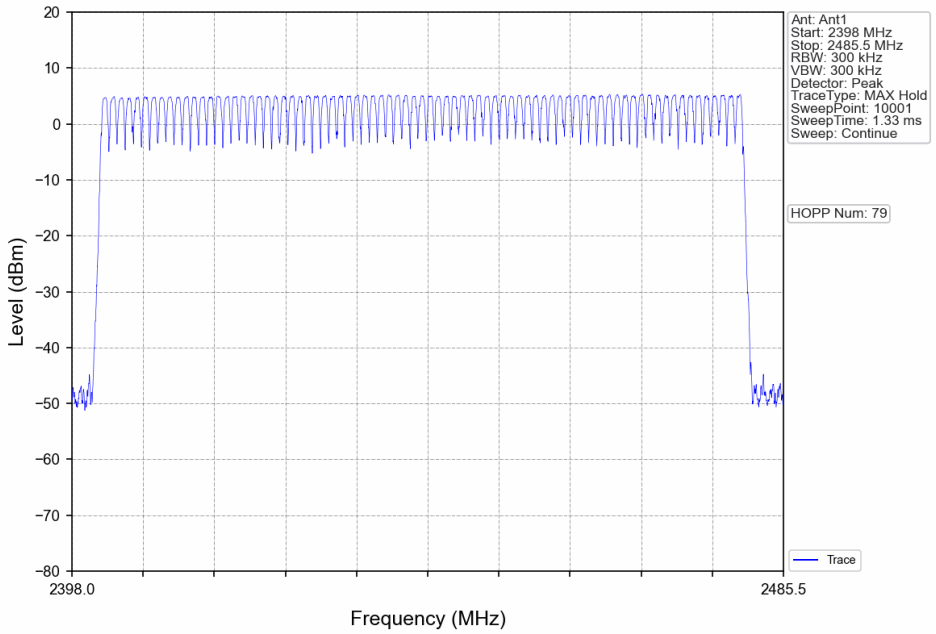
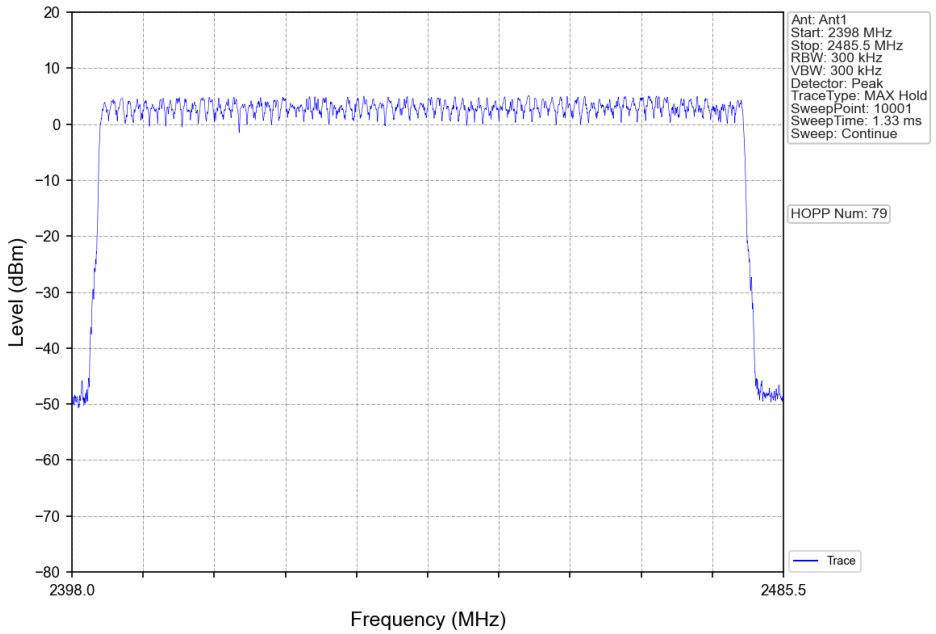
4.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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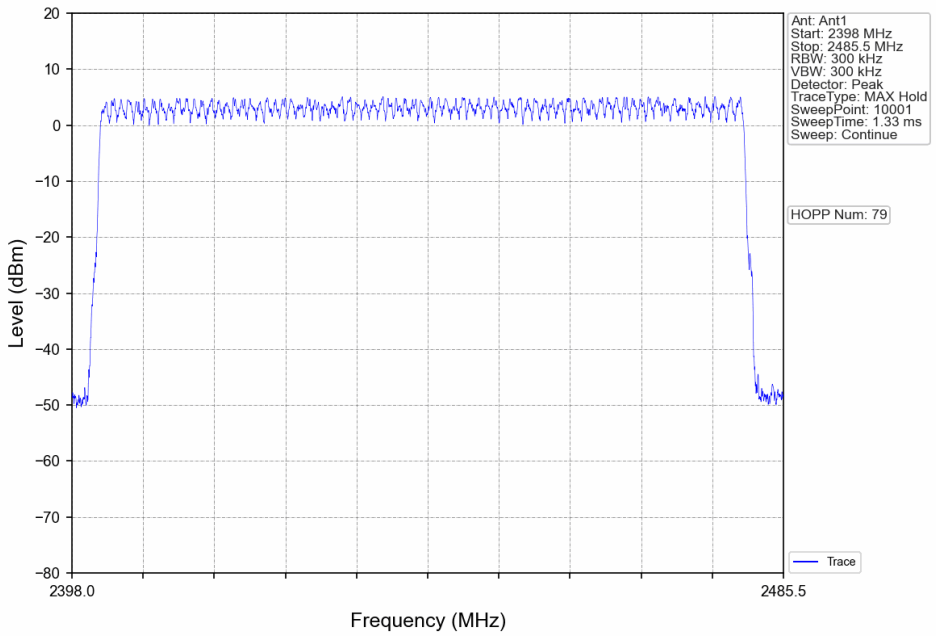
8DPSK_3DH5_HOPP_Ant1_NTNV



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	0.380	31.600	320	121.600	<=400	Pass
			DH3	1.636	31.600	169	276.484	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	318	124.020	<=400	Pass
			2DH3	1.642	31.600	158	259.436	<=400	Pass
GFSK	SISO	HOPP	DH5	2.886	31.600	124	357.864	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.896	31.600	99	286.704	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	319	125.048	<=400	Pass
			3DH3	1.640	31.600	159	260.760	<=400	Pass
			3DH5	2.894	31.600	108	312.552	<=400	Pass

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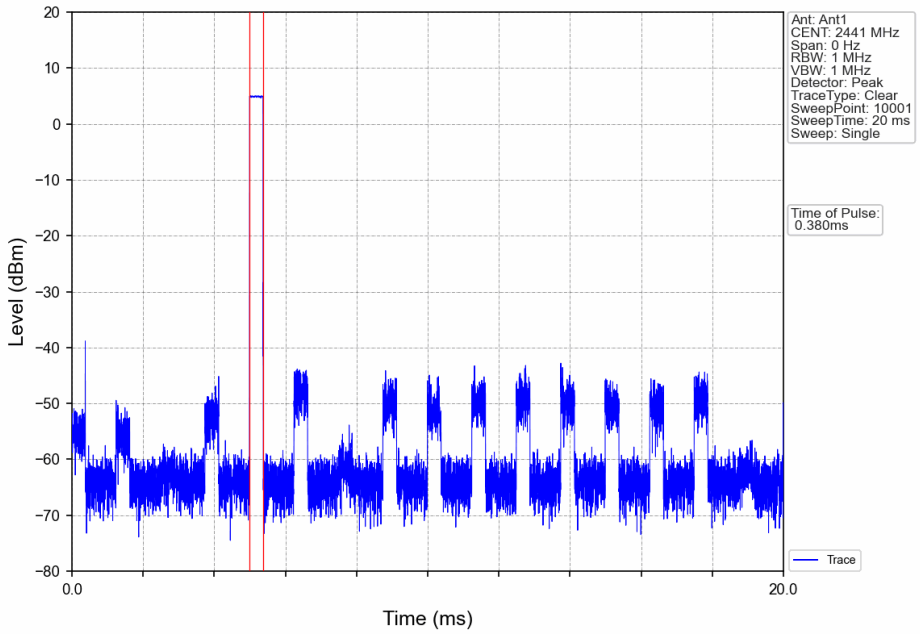
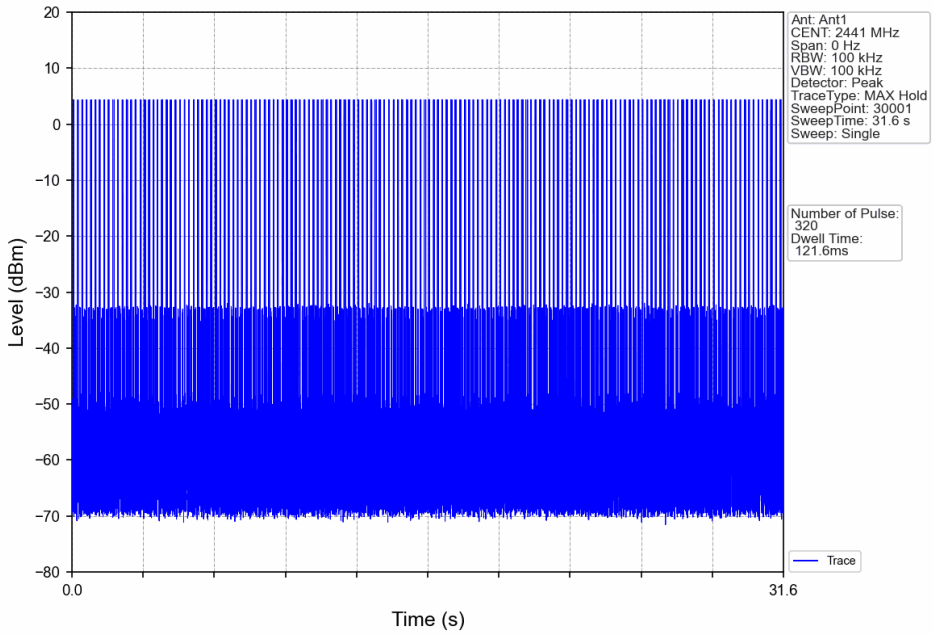
5.1.2 Test Graph

GFSK_DH1_HOPP_Ant1_NTNV



GFSK_DH1_HOPP_Ant1_NTNV



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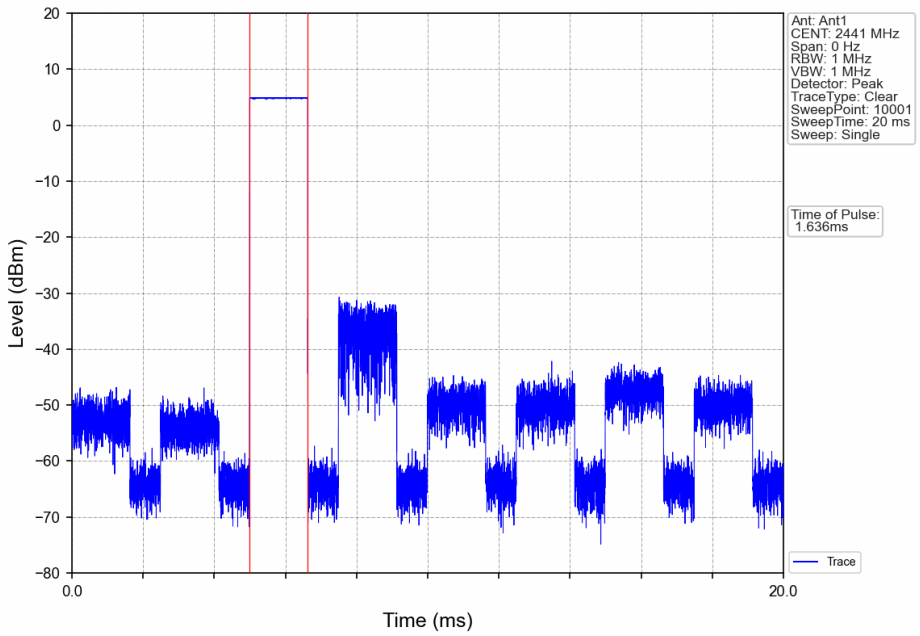
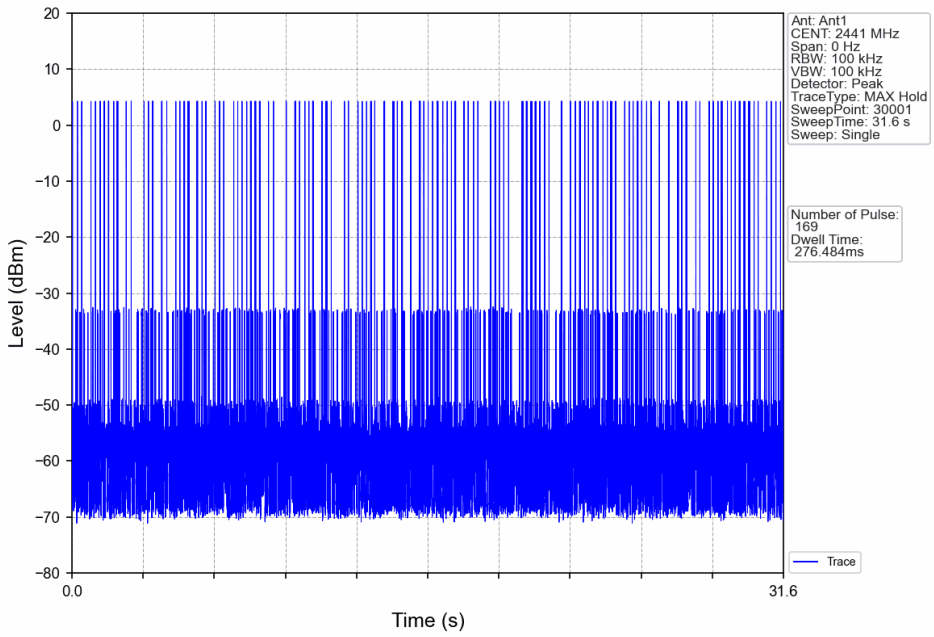
GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV



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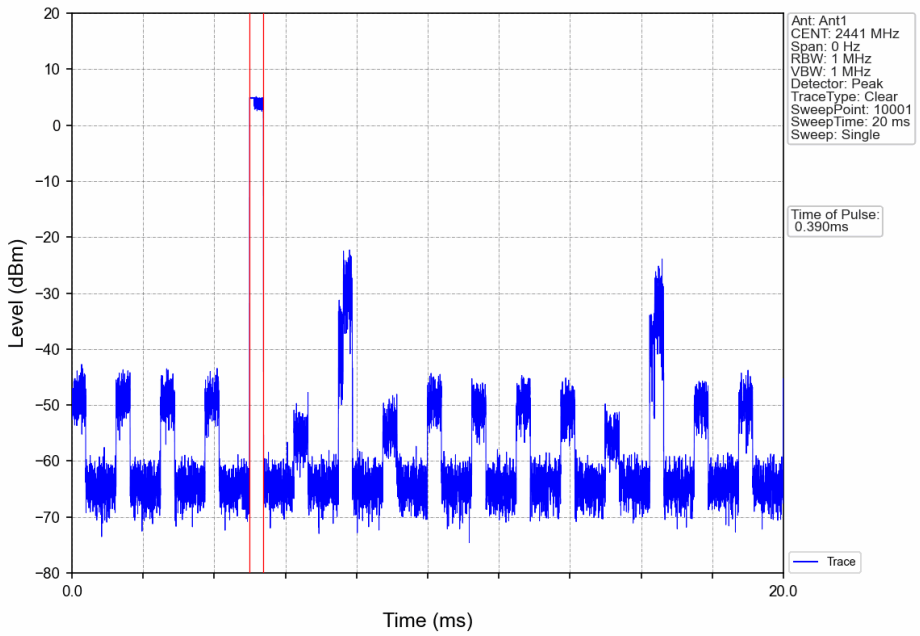
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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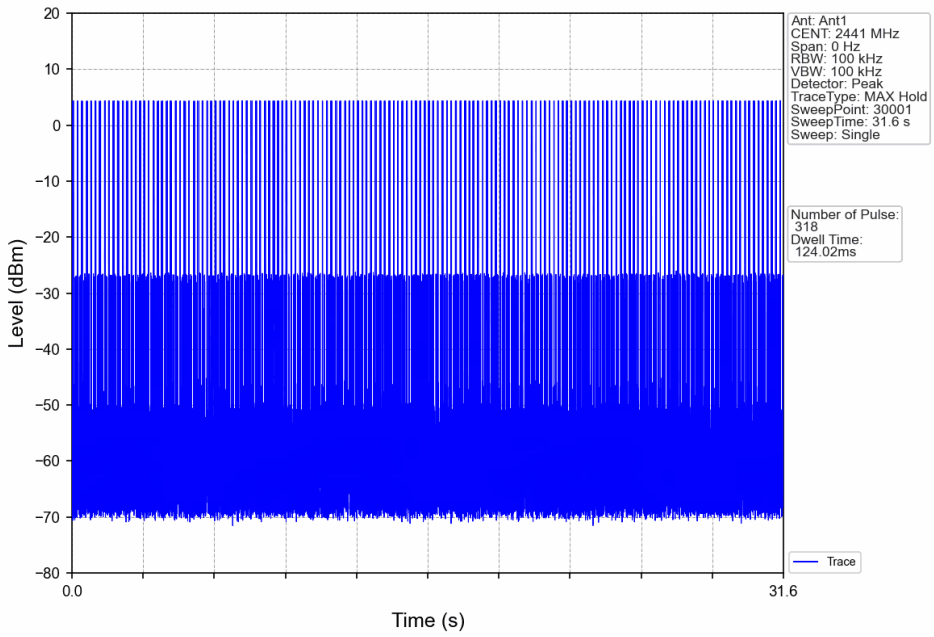

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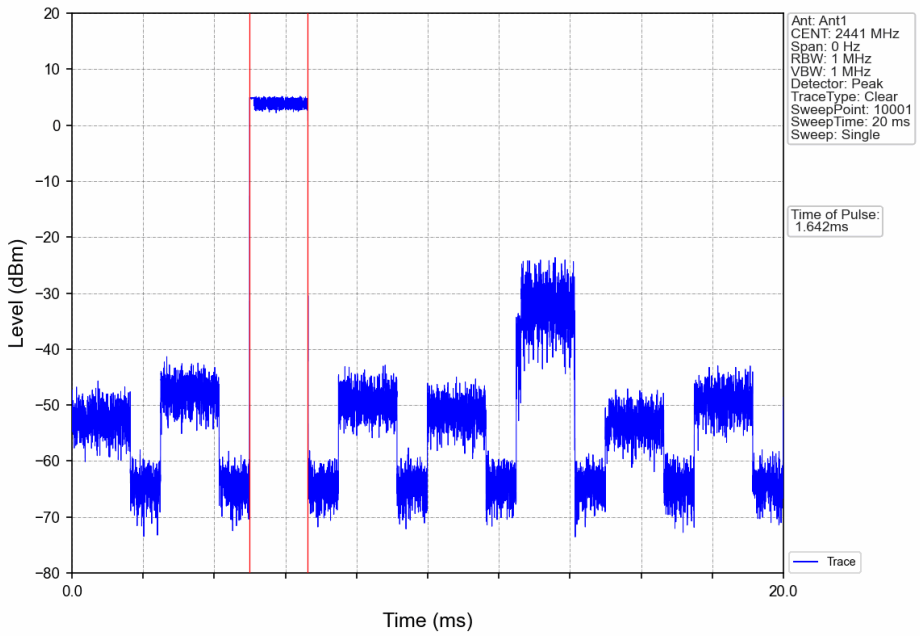
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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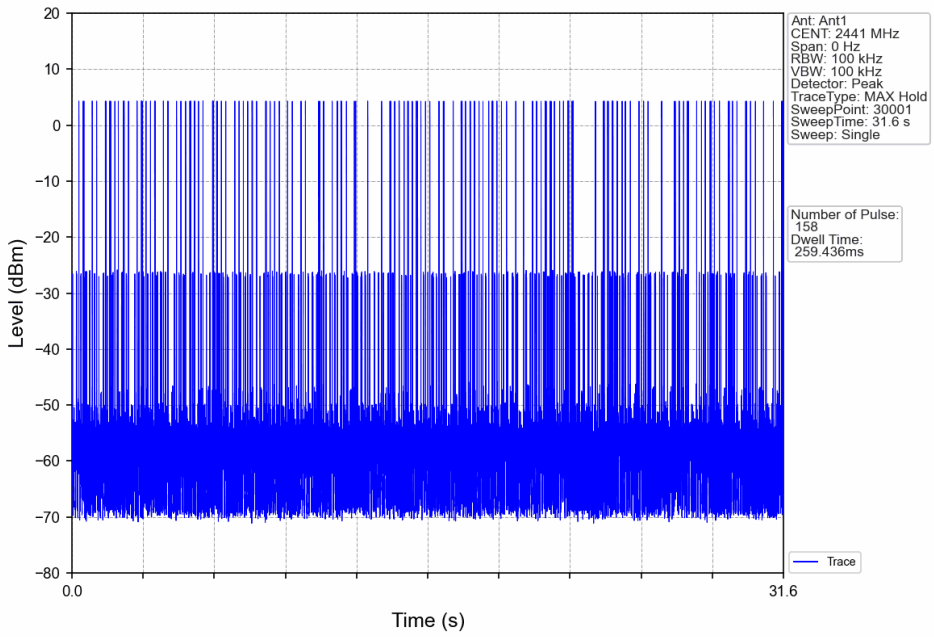

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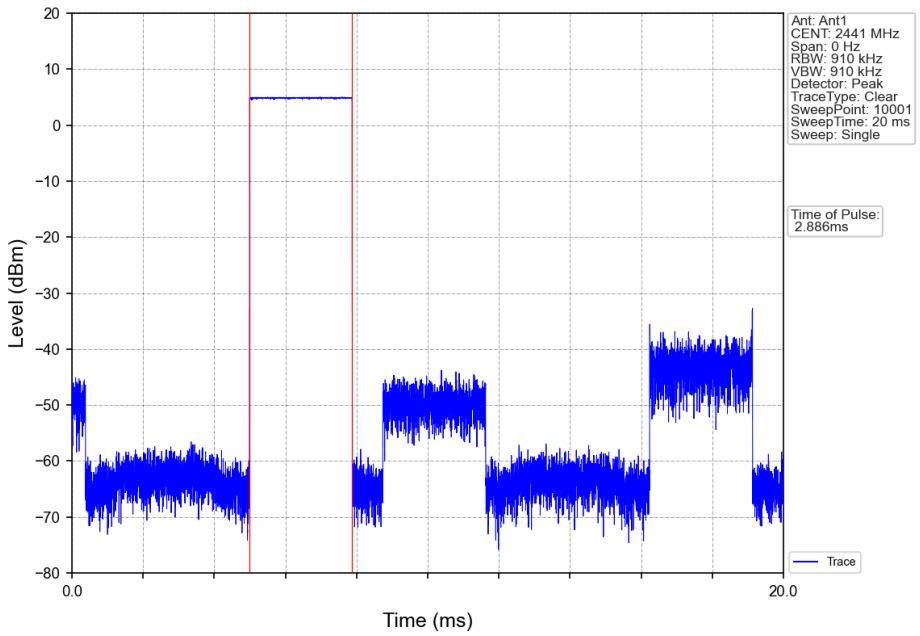
GFSK_DH5_HOPP_Ant1_NTNV



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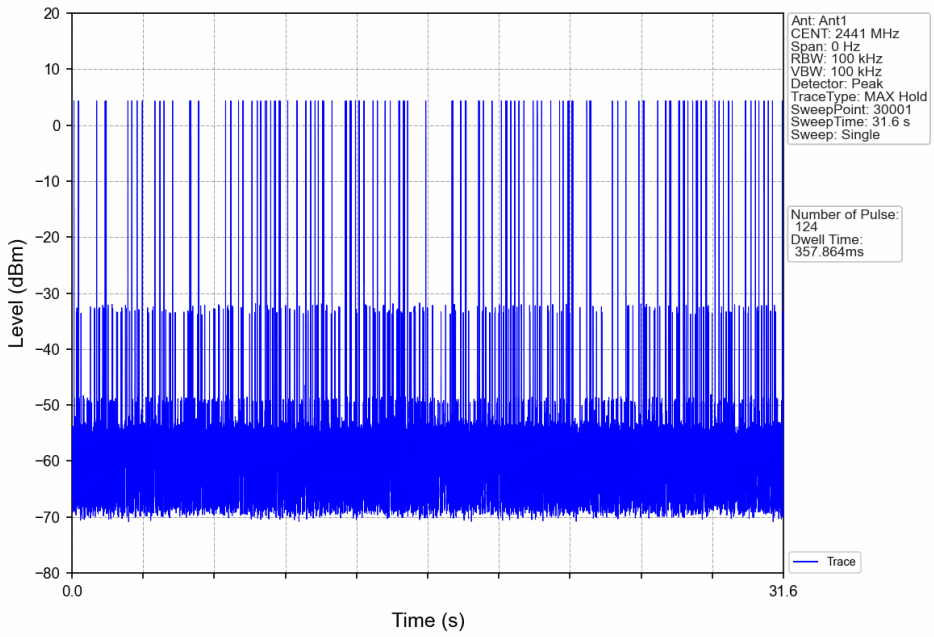

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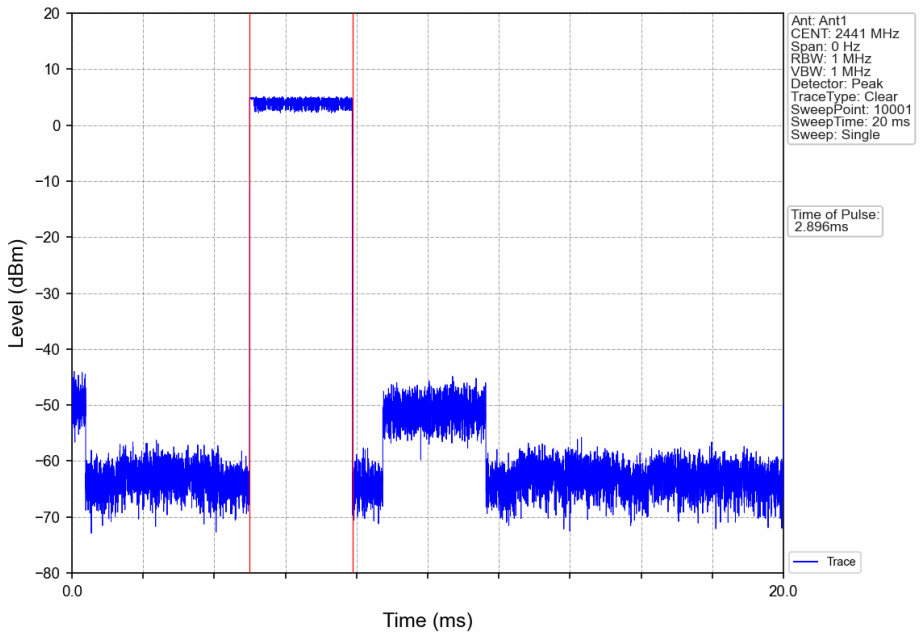
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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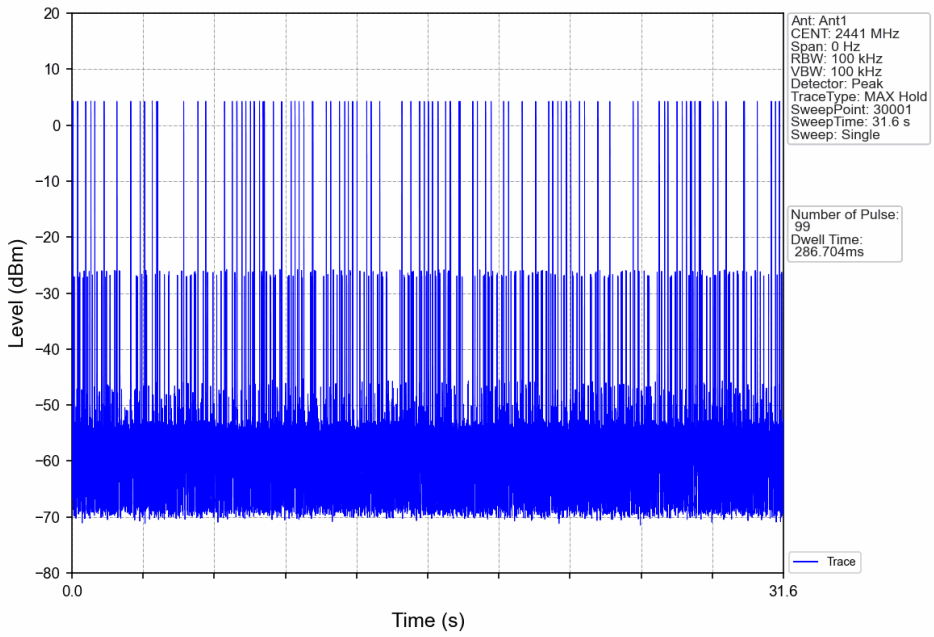

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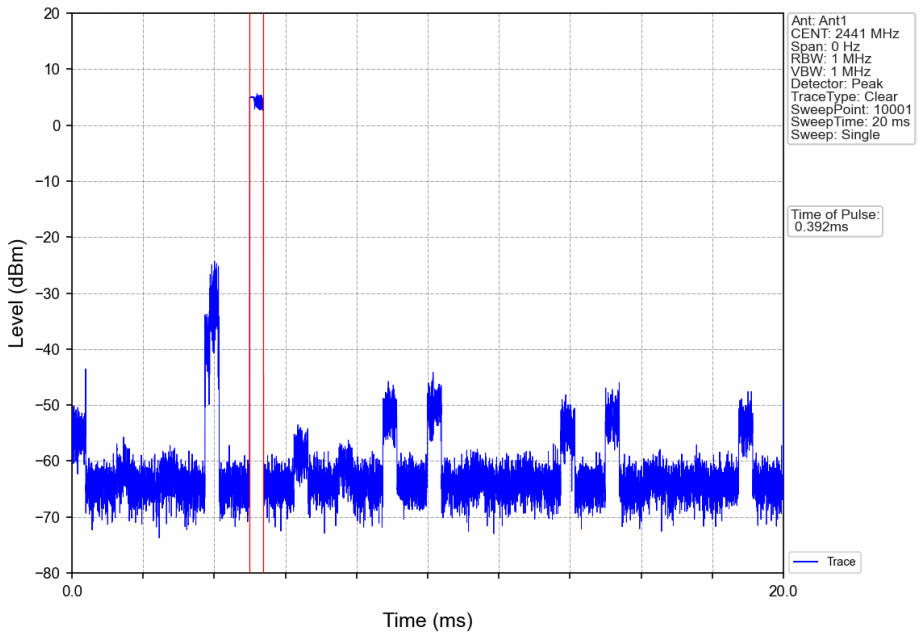
8DPSK_3DH1_HOPP_Ant1_NTNV



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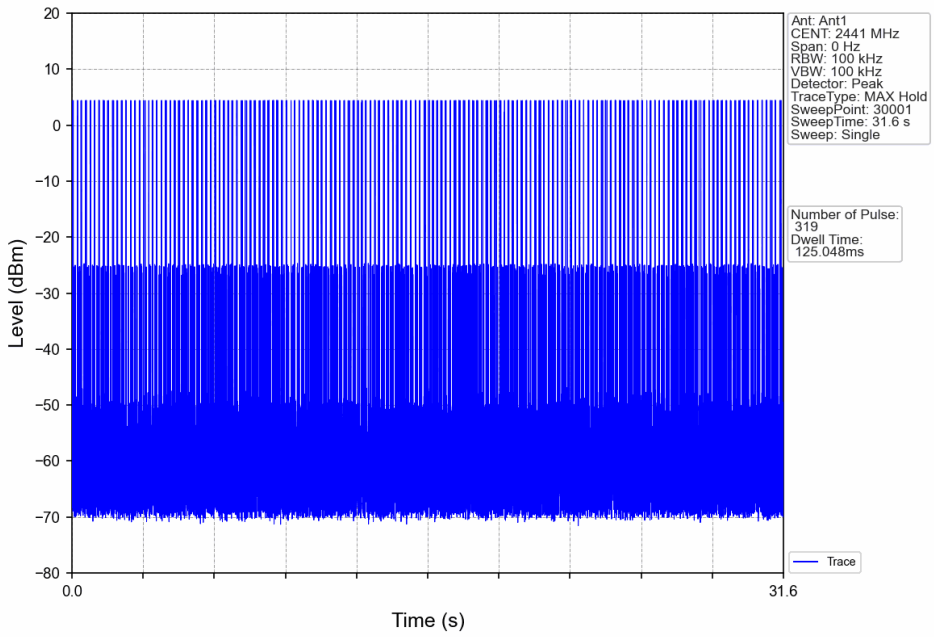

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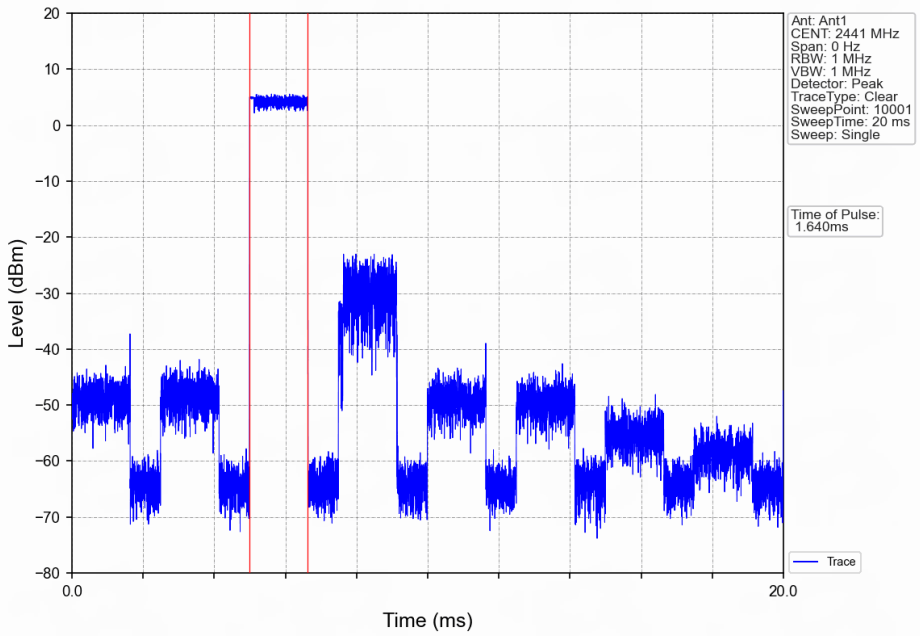
8DPSK_3DH3_HOPP_Ant1_NTNV



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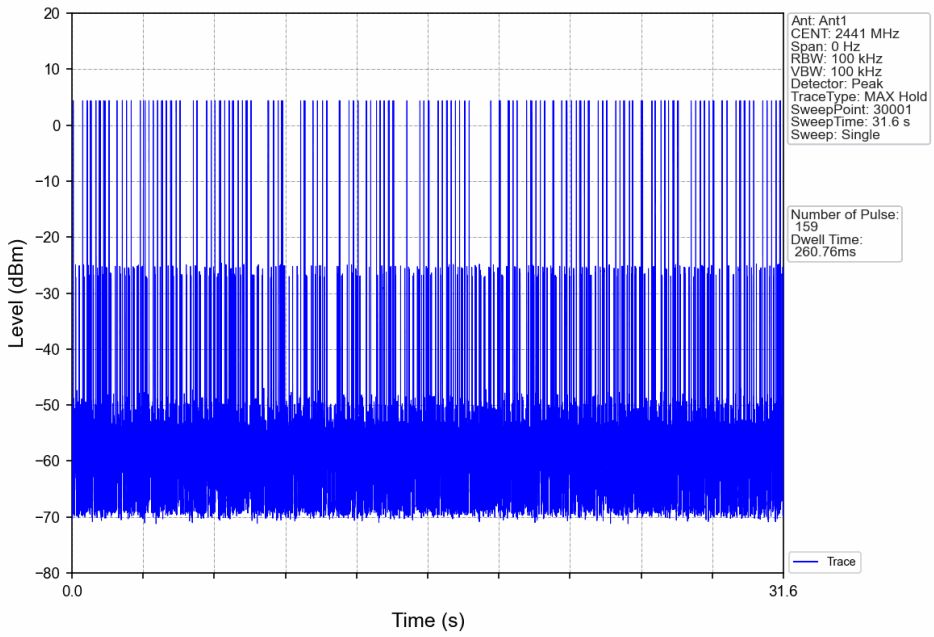

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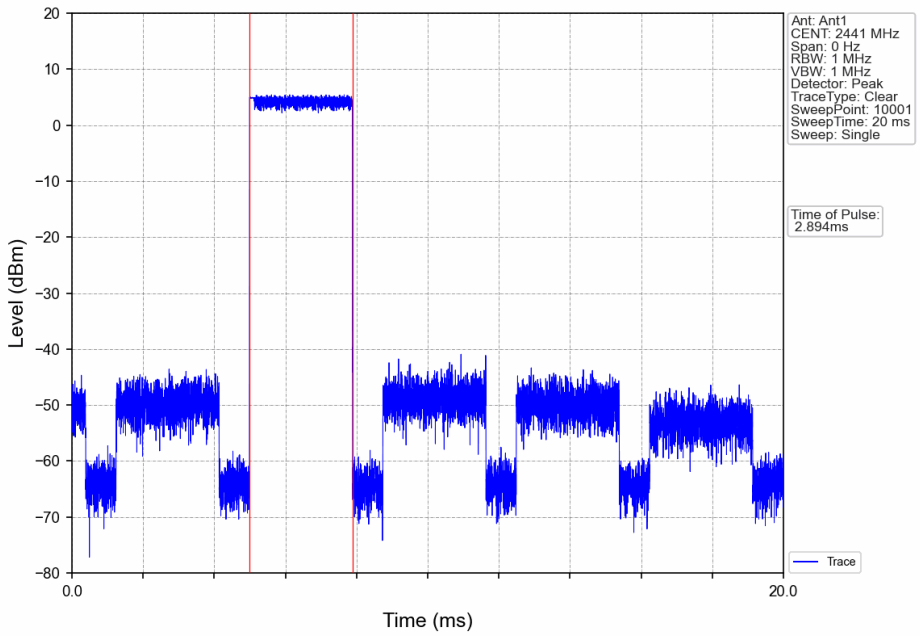
8DPSK_3DH5_HOPP_Ant1_NTNV



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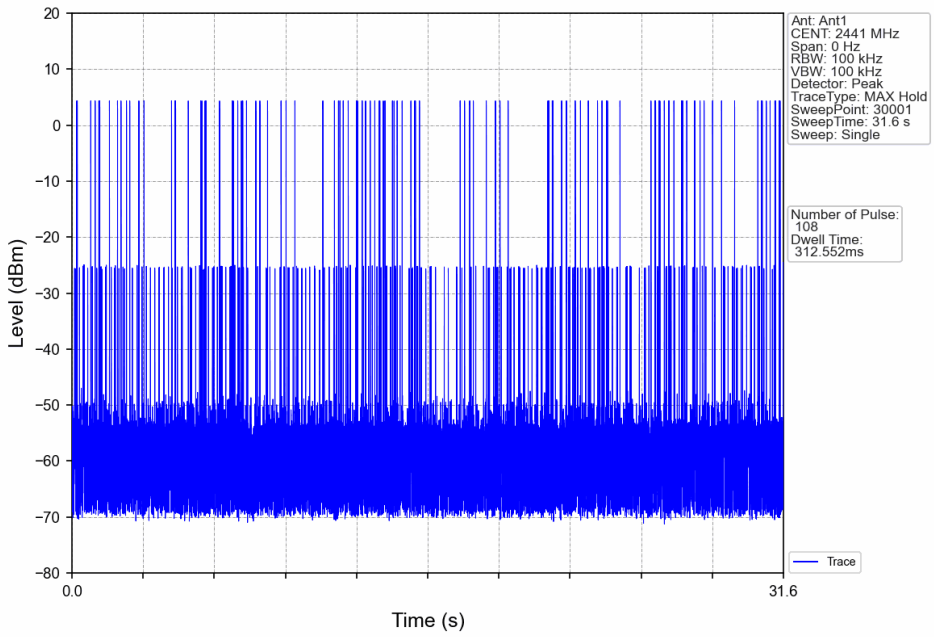

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6. Unwanted Emissions In Non-restricted Frequency Bands

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	4.40
		2441	DH5	1	4.69
		2480	DH5	1	4.75
Pi/4DQPSK	SISO	2402	2DH5	1	4.34
8DPSK	SISO	2402	3DH5	1	4.35
Pi/4DQPSK	SISO	2441	2DH5	1	4.63
		2480	2DH5	1	4.68
8DPSK	SISO	2441	3DH5	1	4.66
		2480	3DH5	1	4.73
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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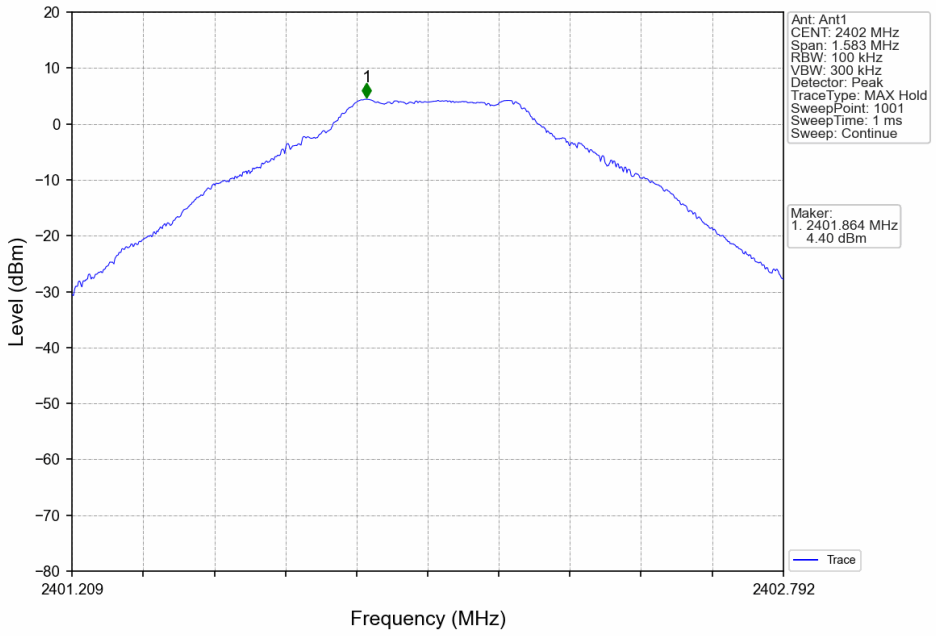
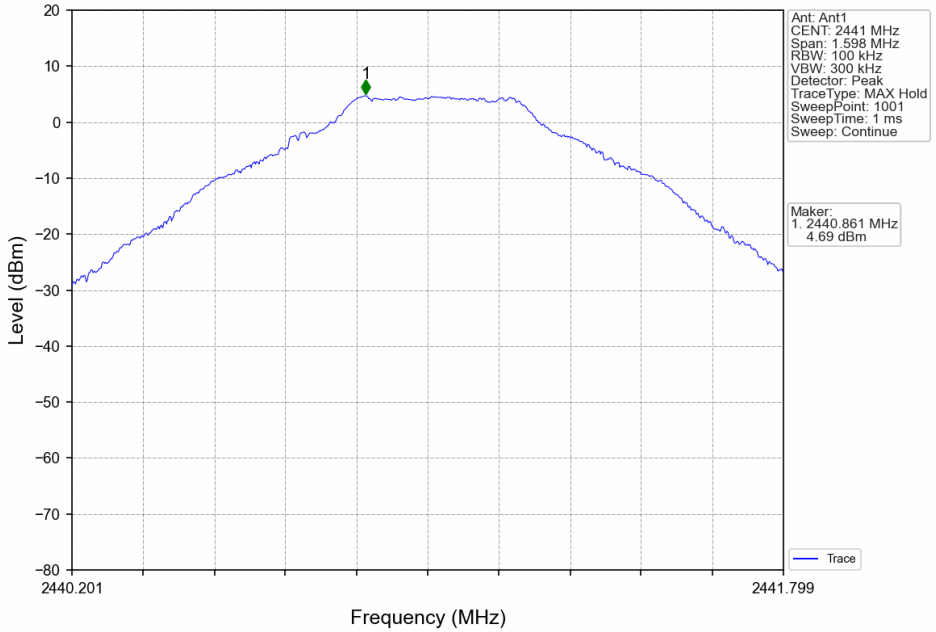
6.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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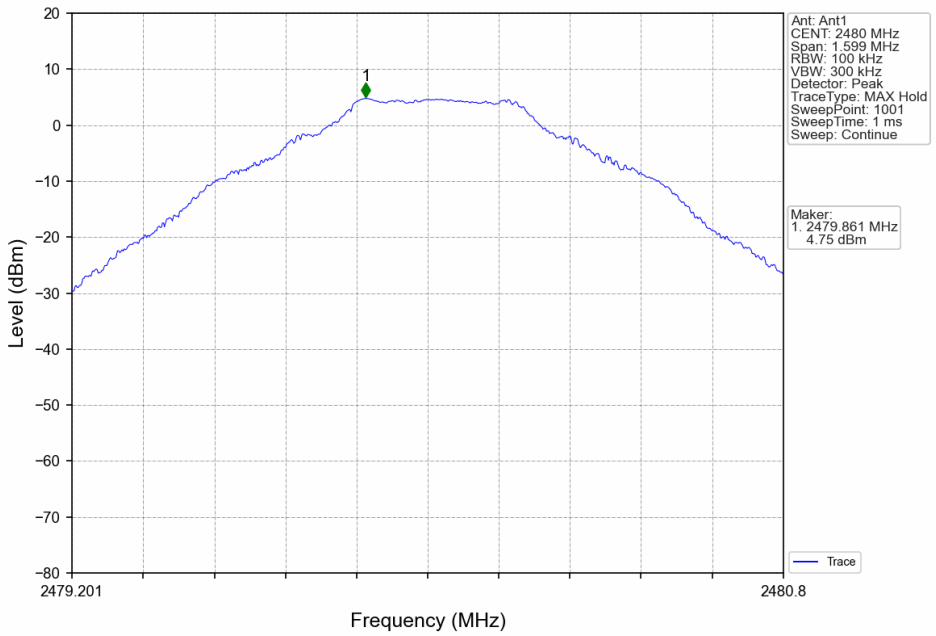
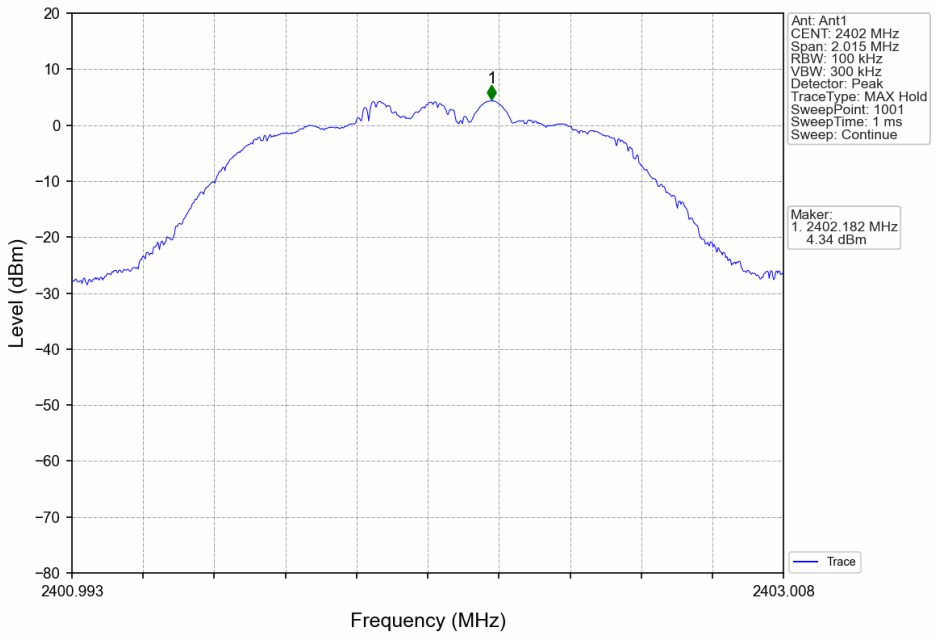
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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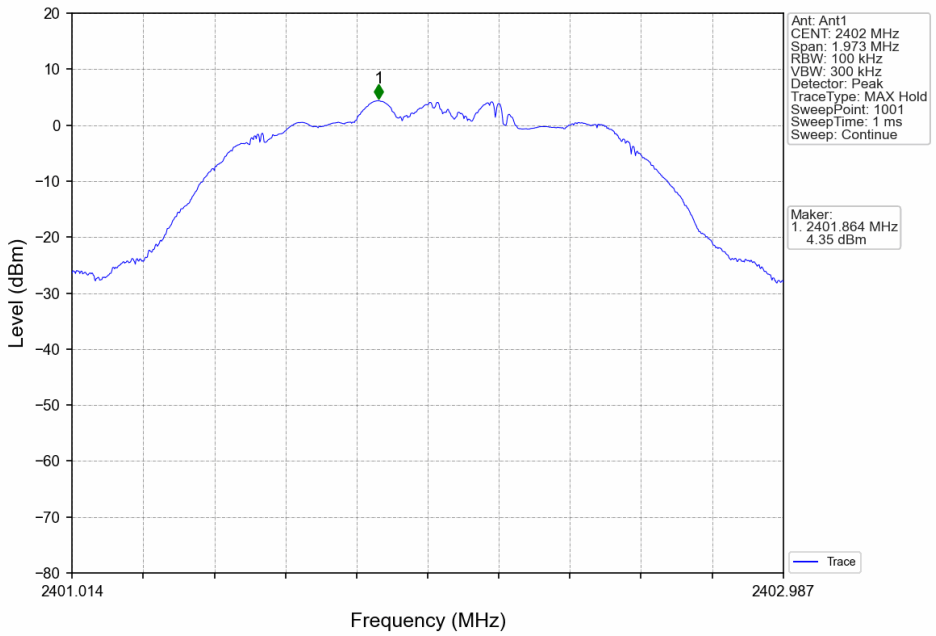
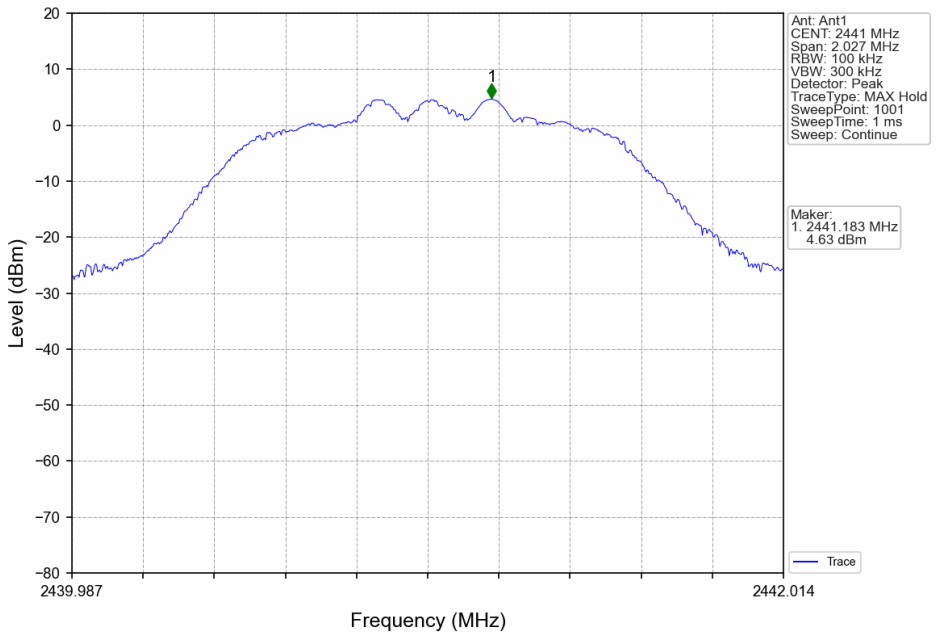
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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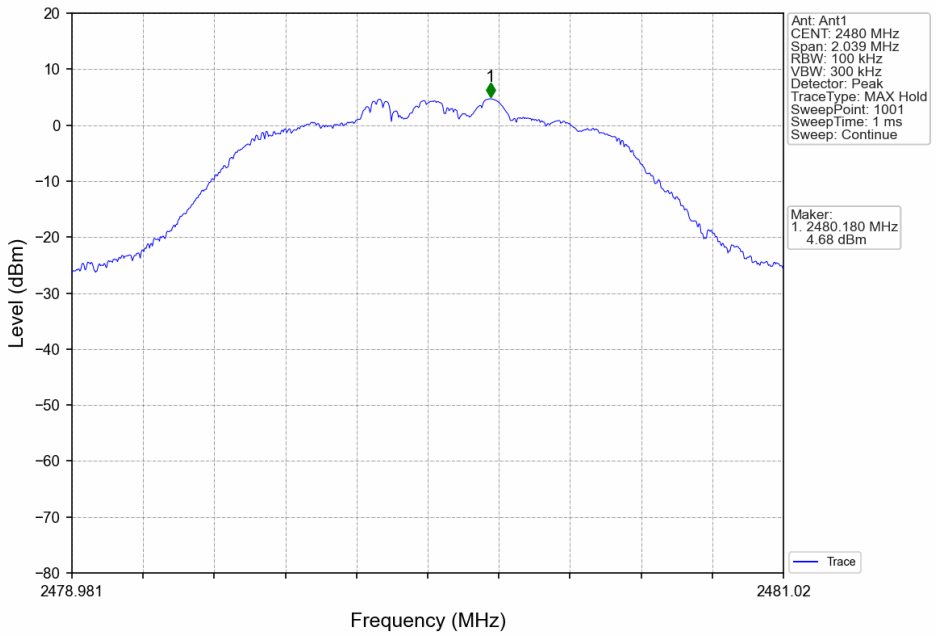
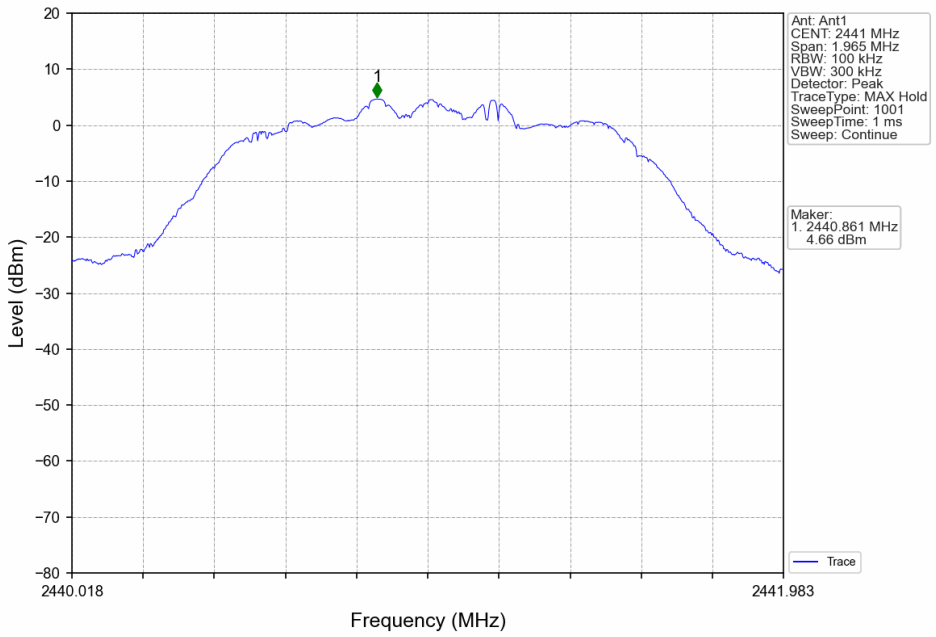
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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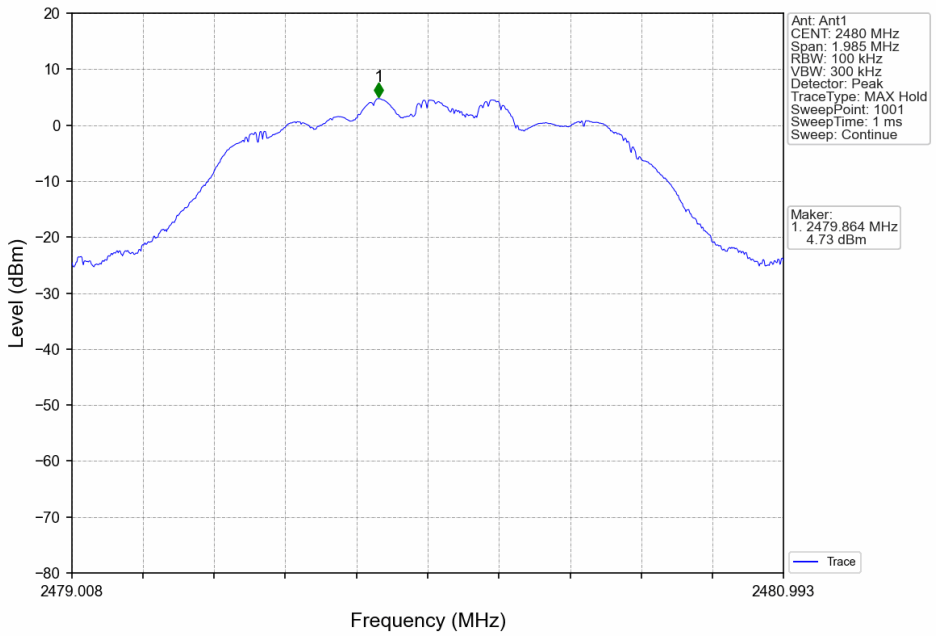
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	4.75	-15.25	Pass
		2441	DH5	1	4.75	-15.25	Pass
		2480	DH5	1	4.75	-15.25	Pass
		HOPP	DH5	1	4.75	-15.25	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.68	-15.32	Pass
8DPSK	SISO	2402	3DH5	1	4.73	-15.27	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	4.68	-15.32	Pass
		2480	2DH5	1	4.68	-15.32	Pass
8DPSK	SISO	2441	3DH5	1	4.73	-15.27	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1	4.68	-15.32	Pass
8DPSK	SISO	2480	3DH5	1	4.73	-15.27	Pass
		HOPP	3DH5	1	4.73	-15.27	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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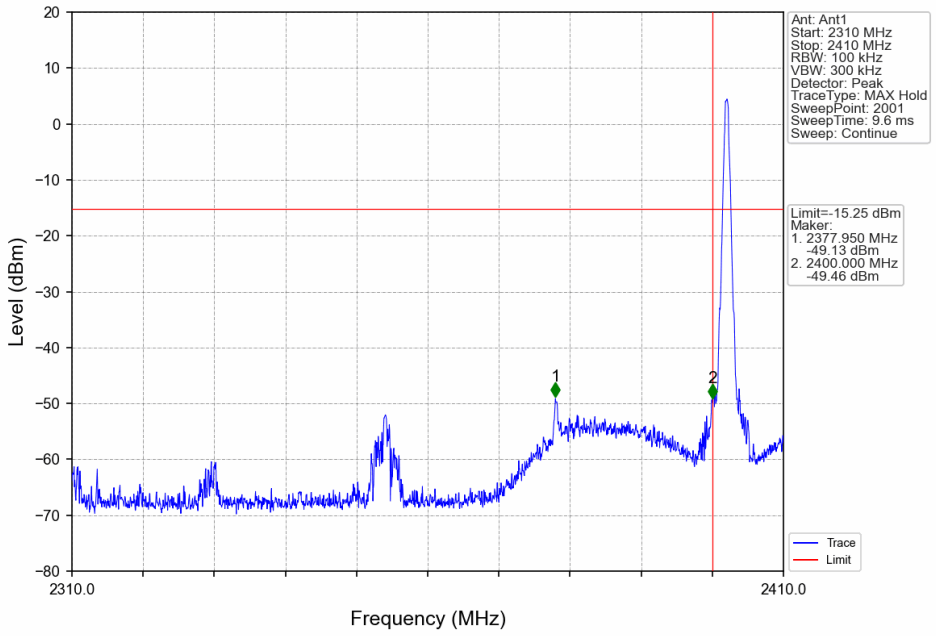
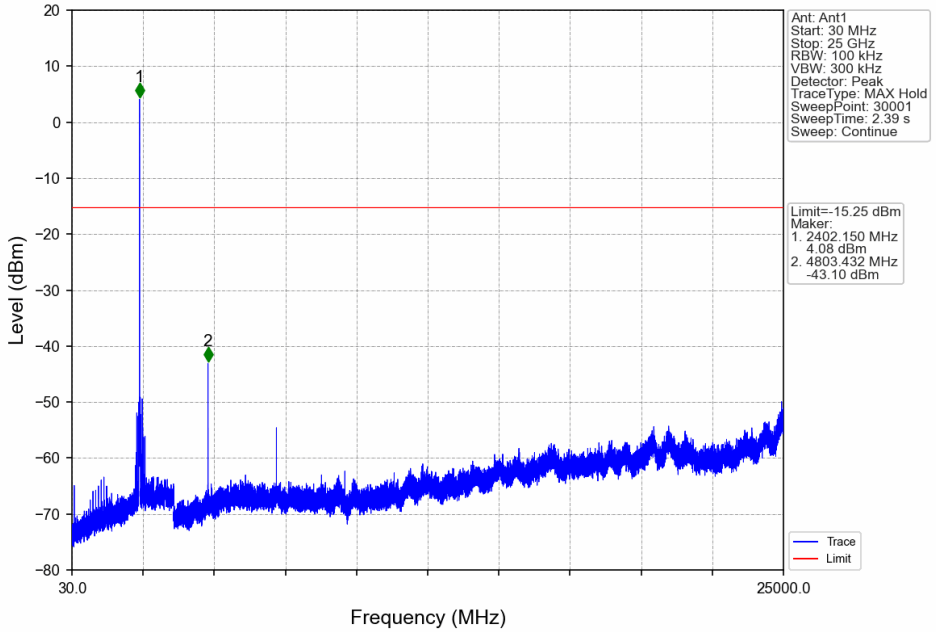
6.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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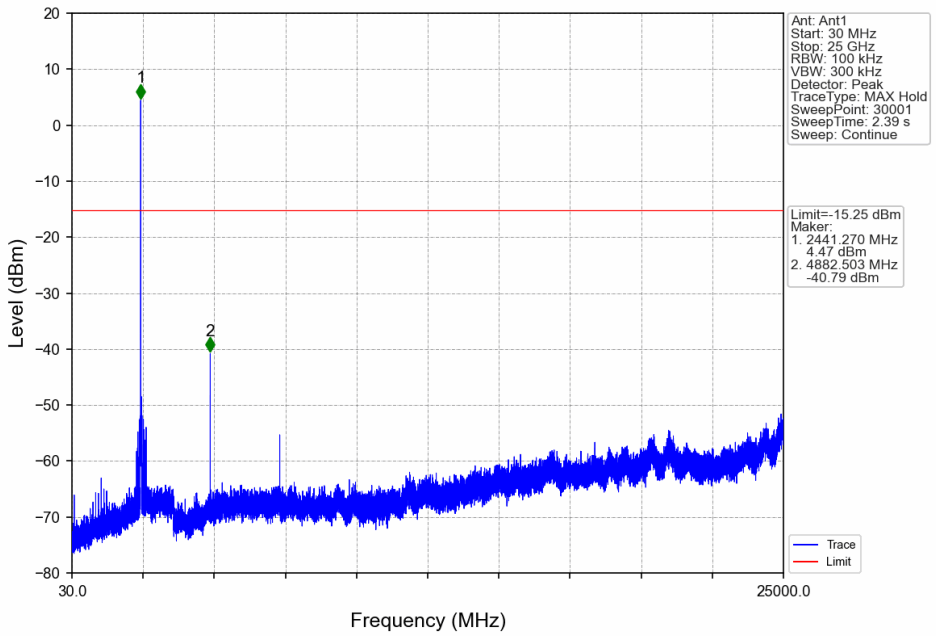
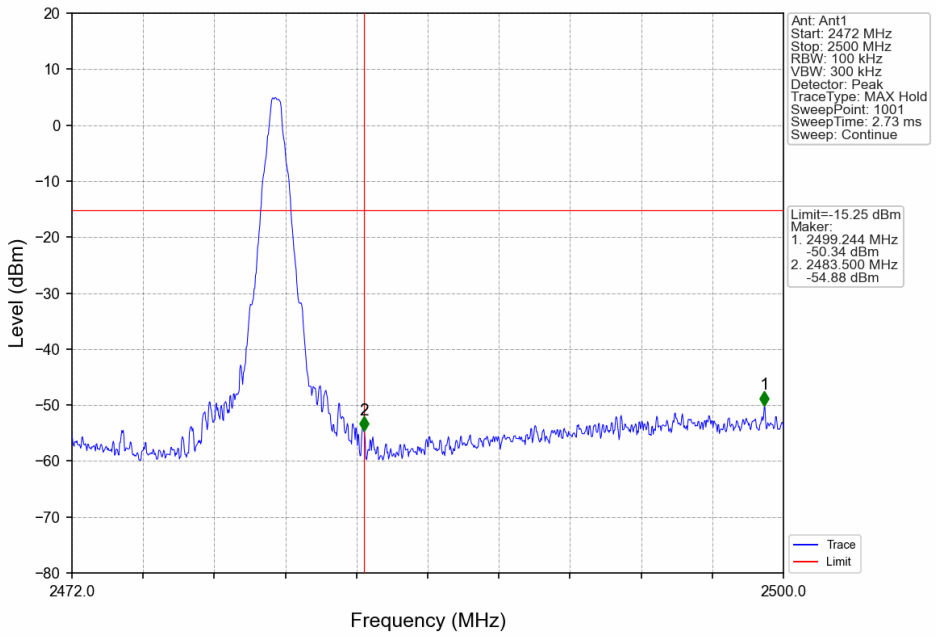
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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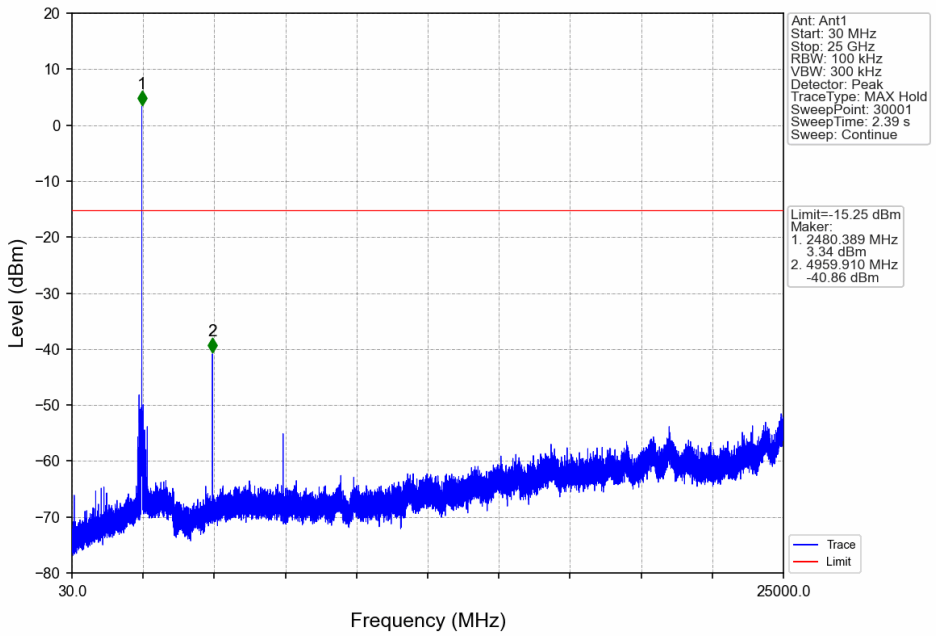
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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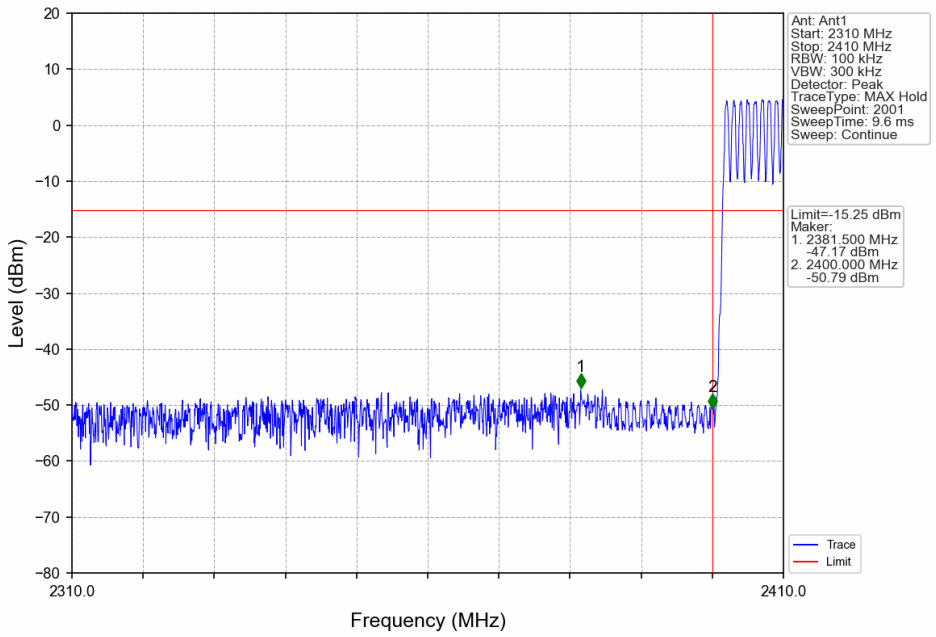

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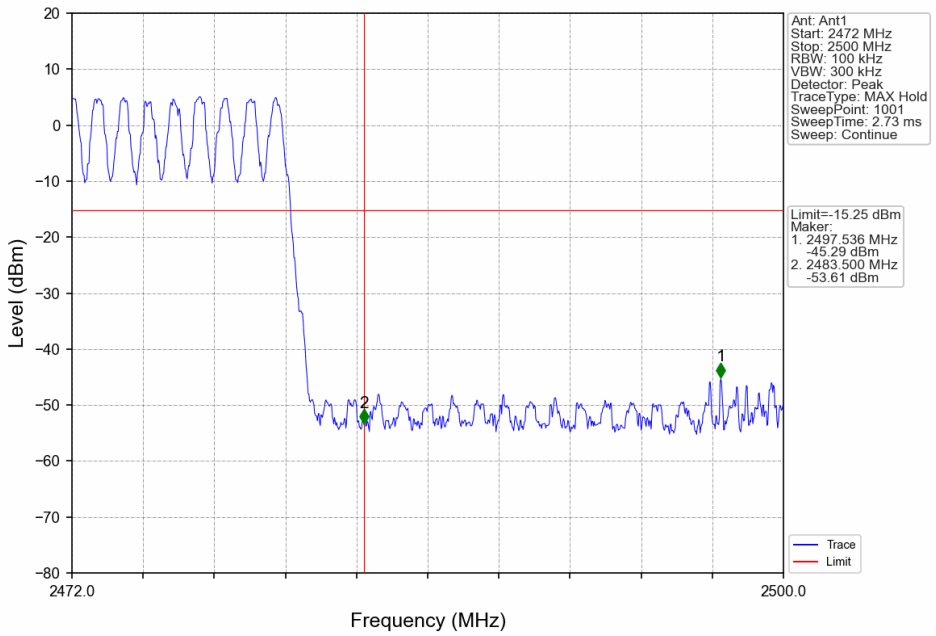
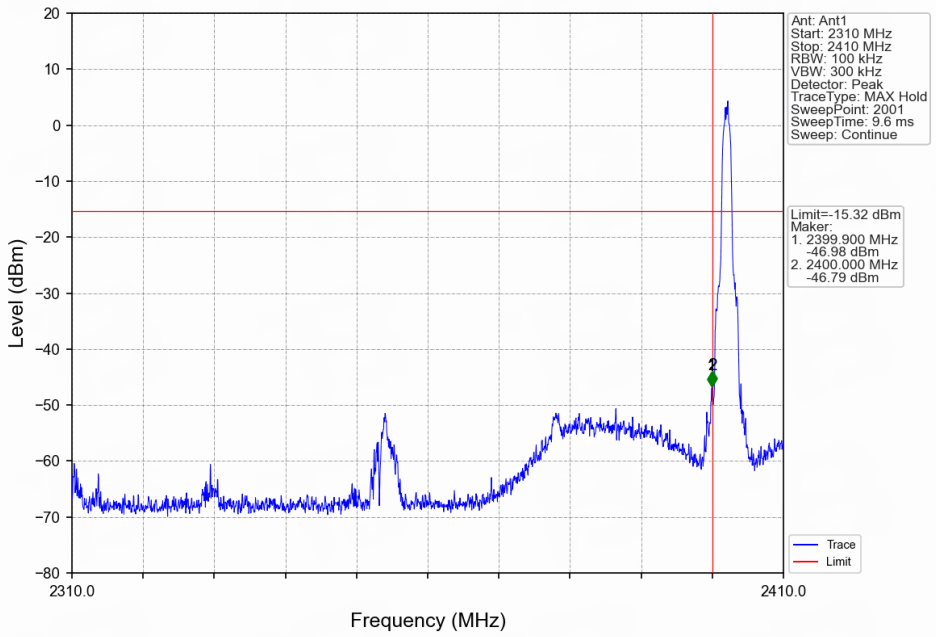
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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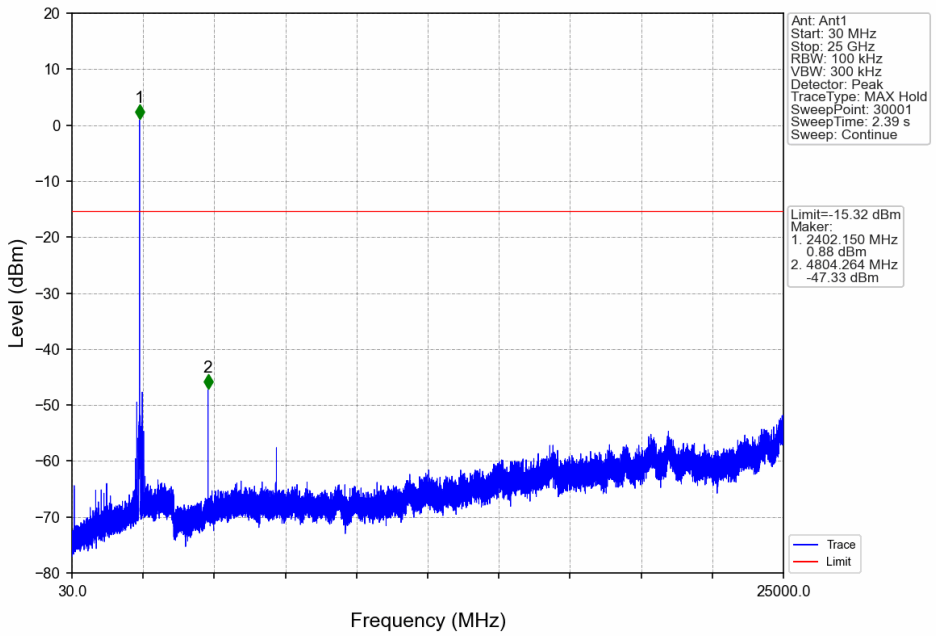
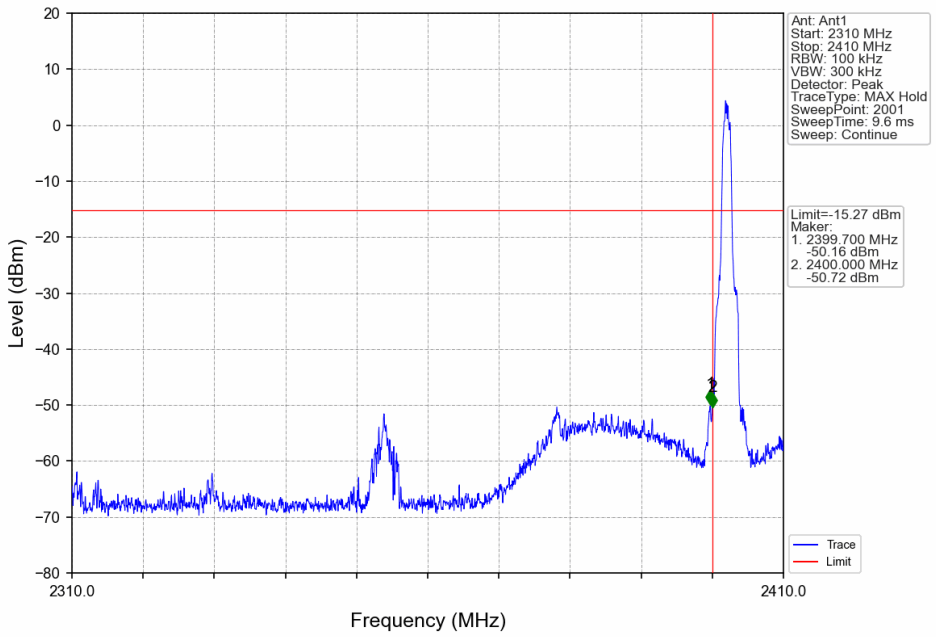
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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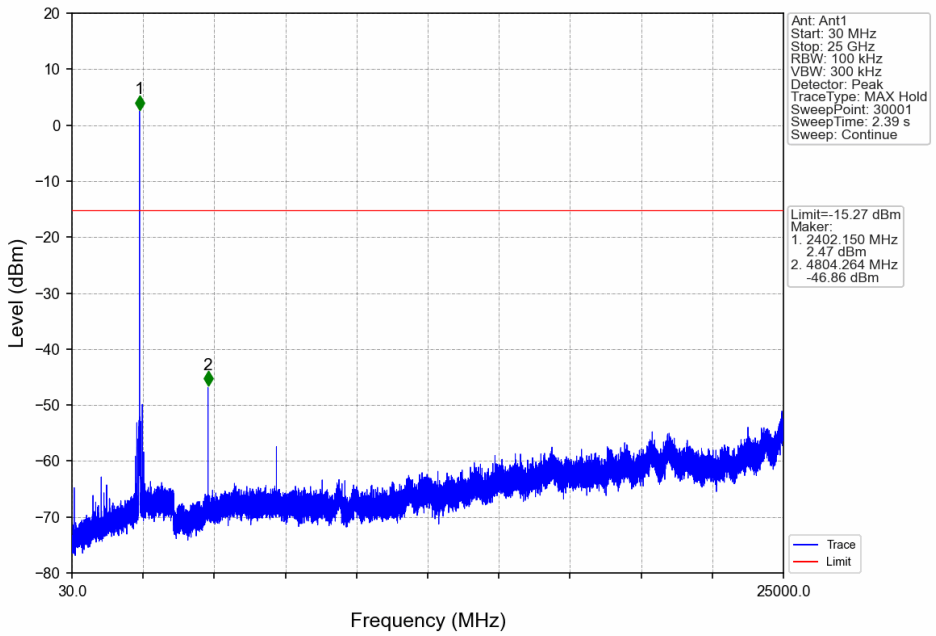
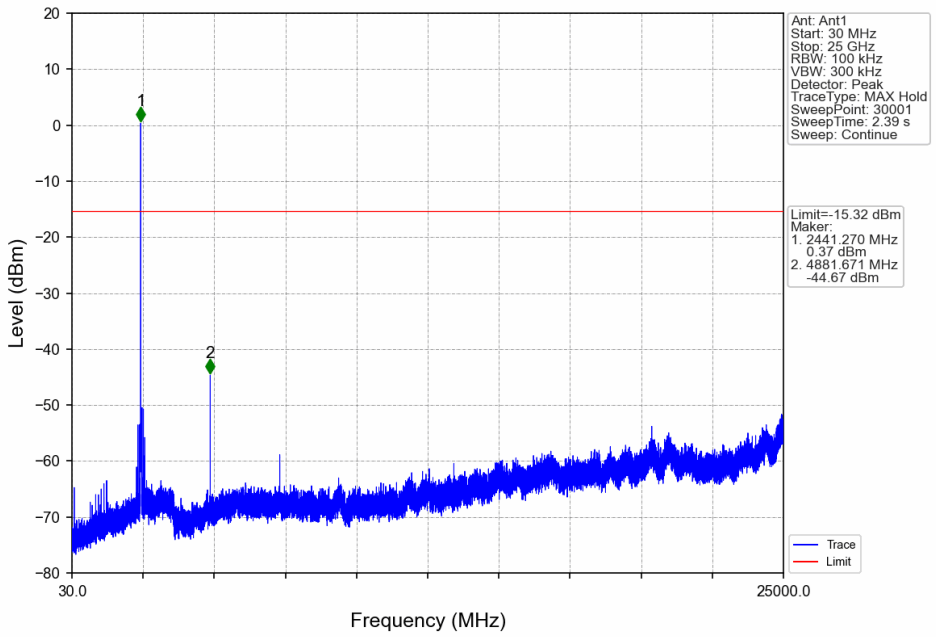
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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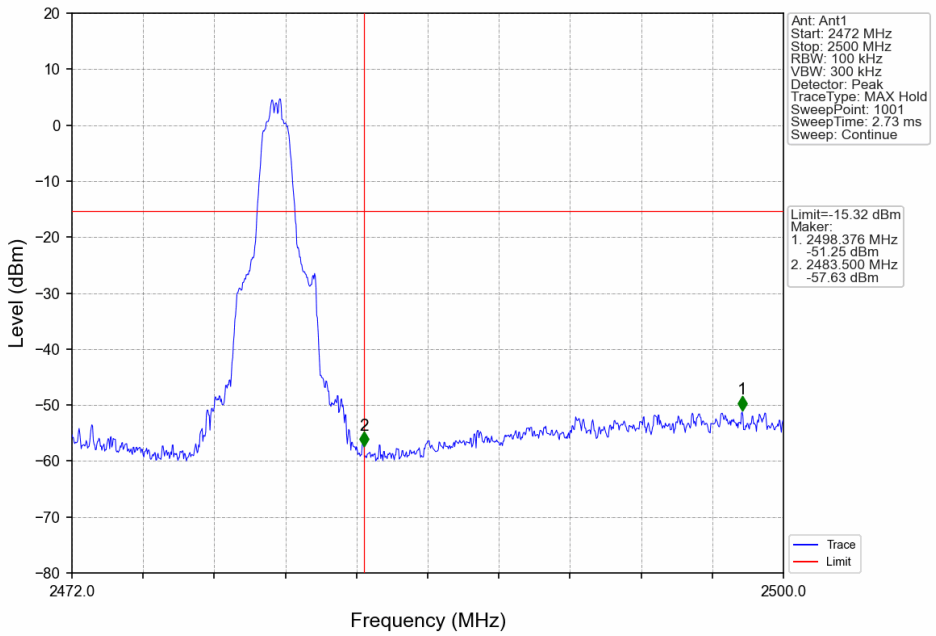
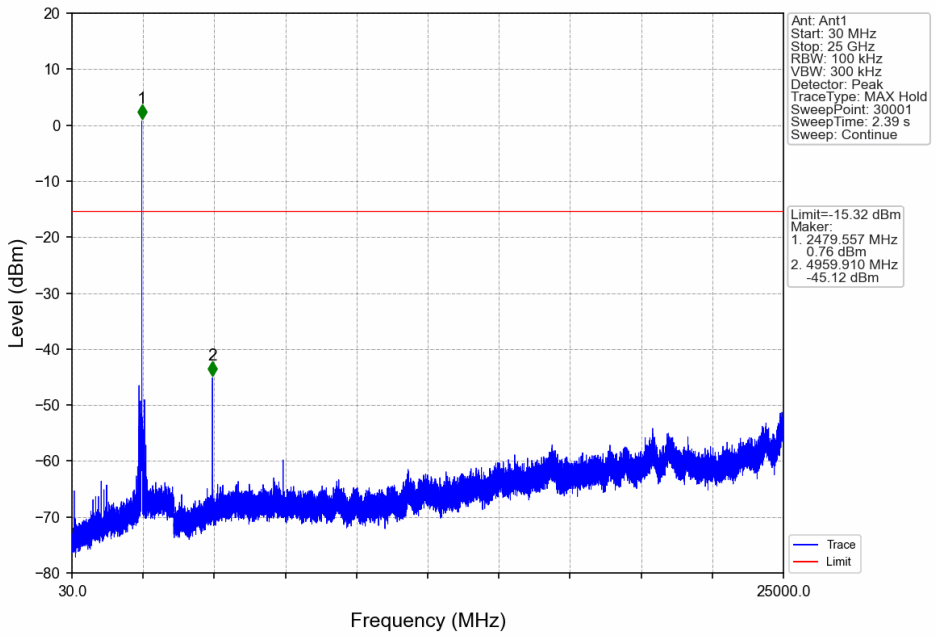
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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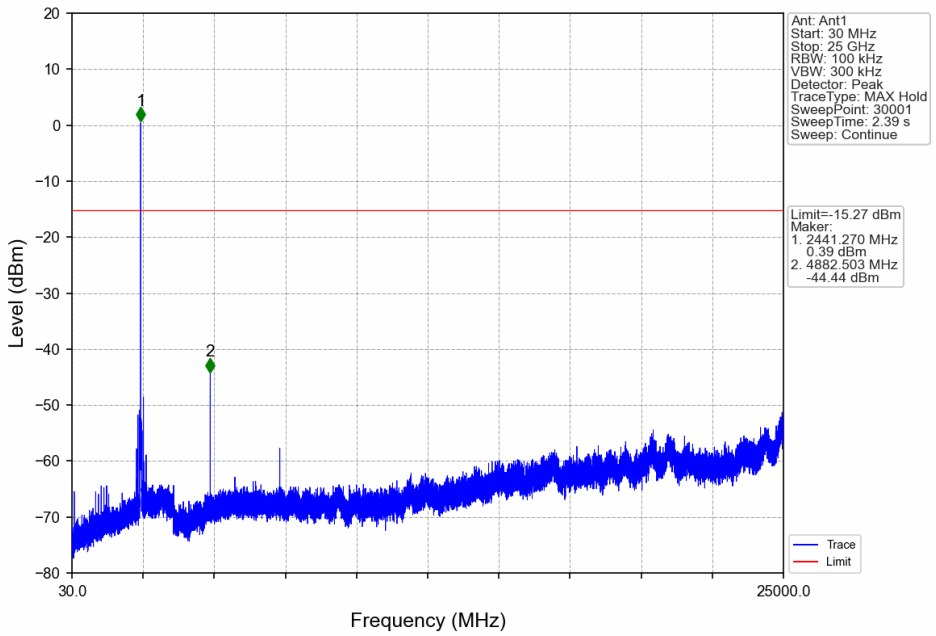
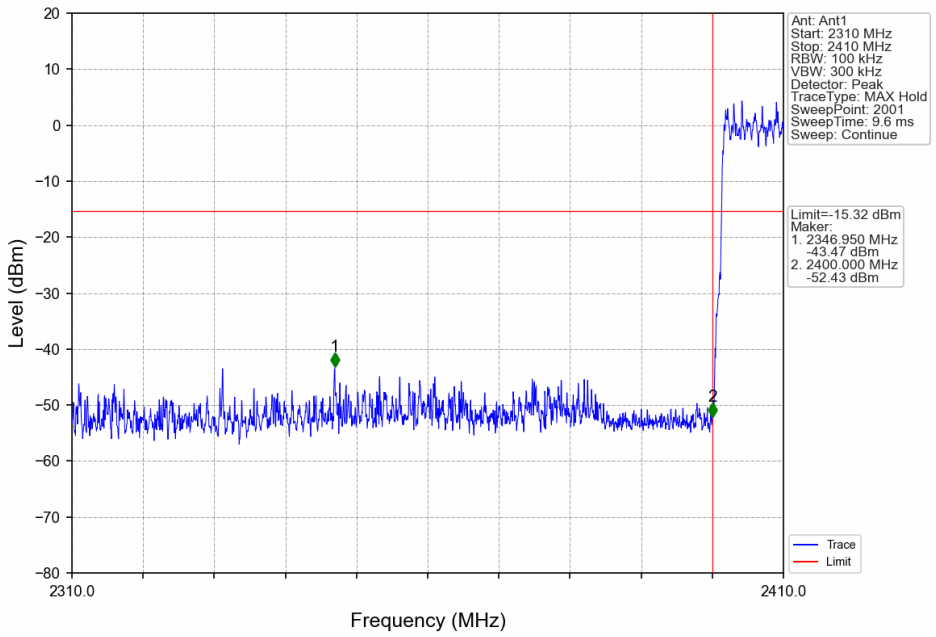
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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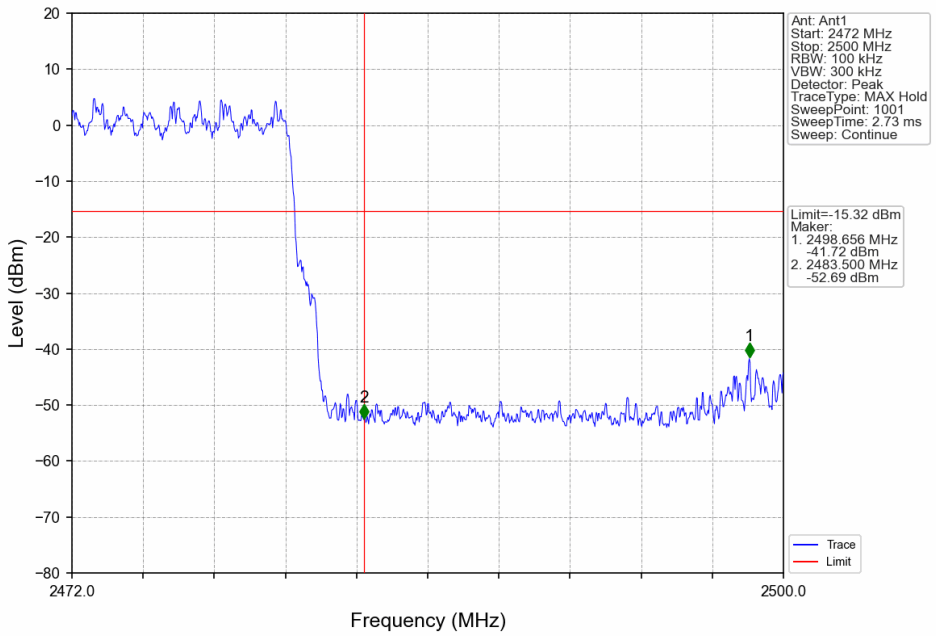
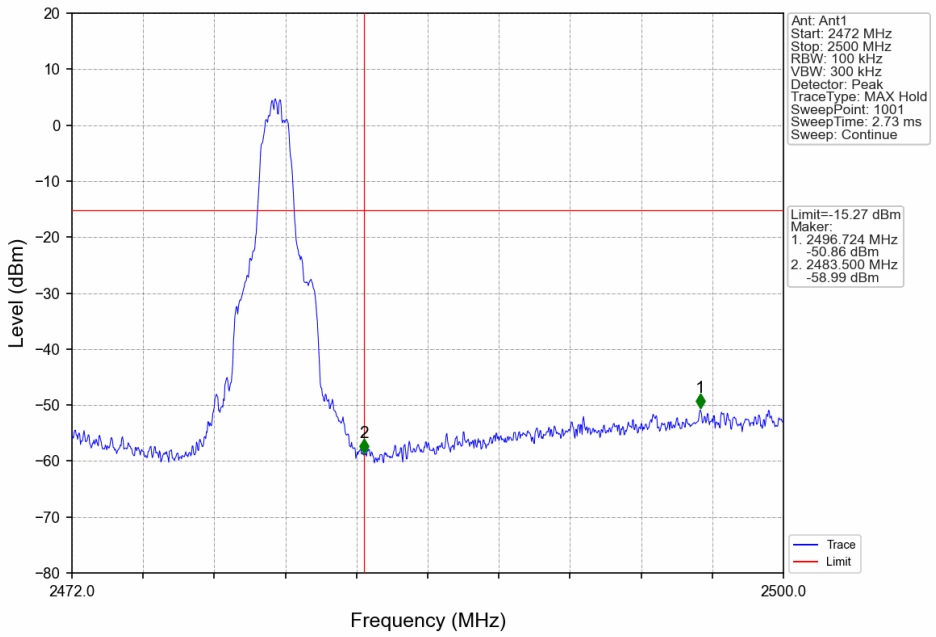
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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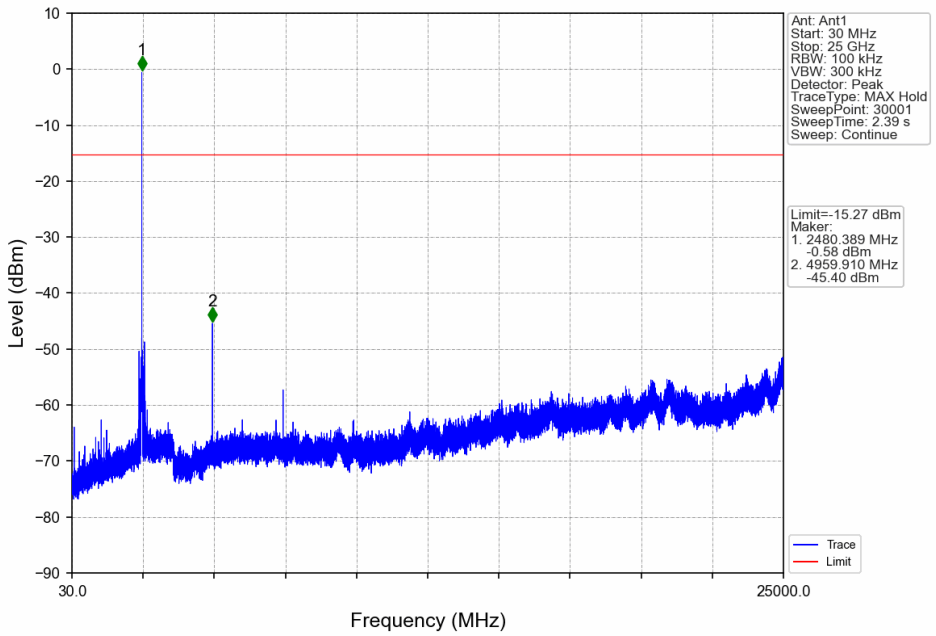
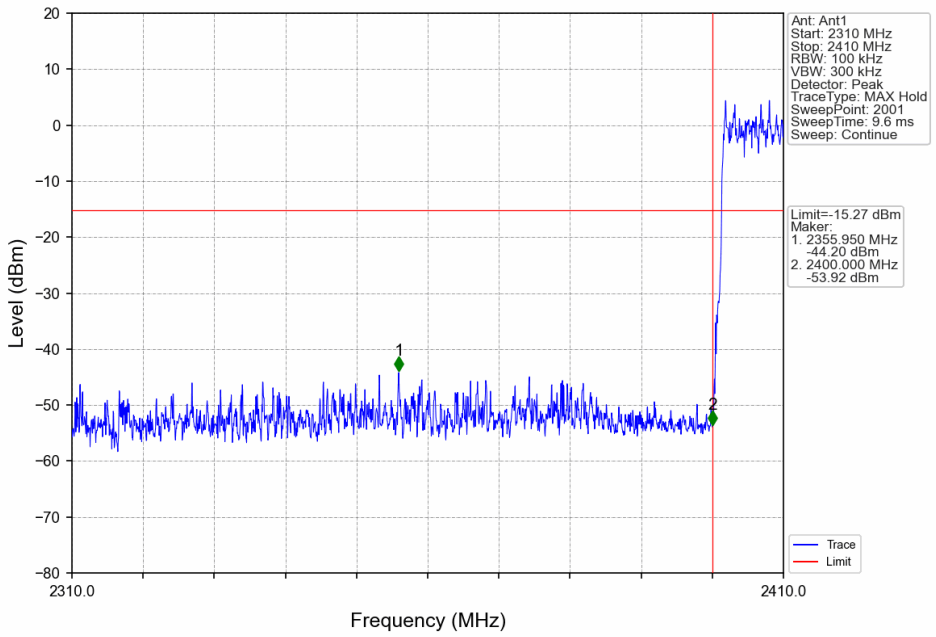
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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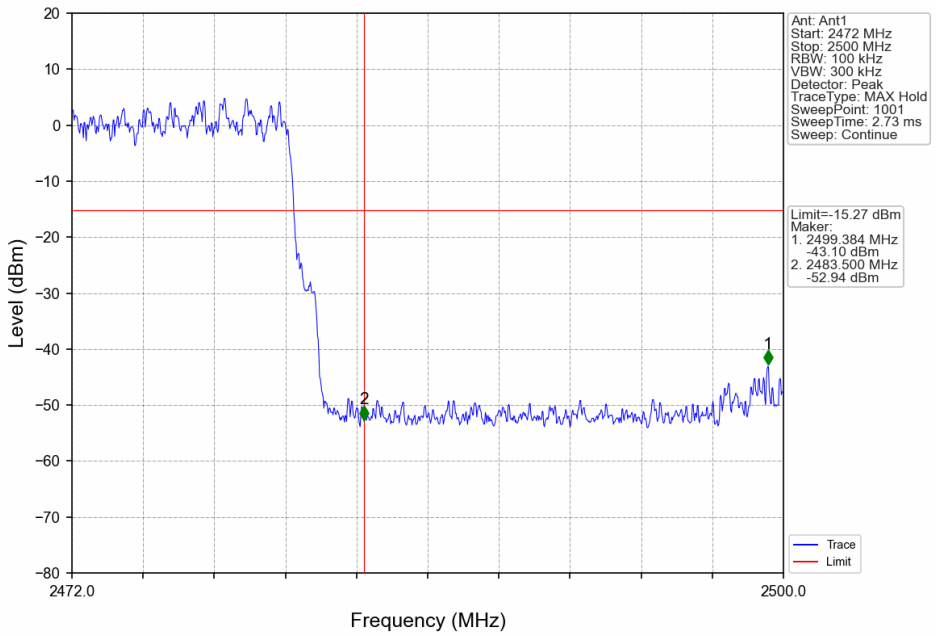
8DPSK_3DH5_HOPP_Ant1_NTNV



7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0039	5.89

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