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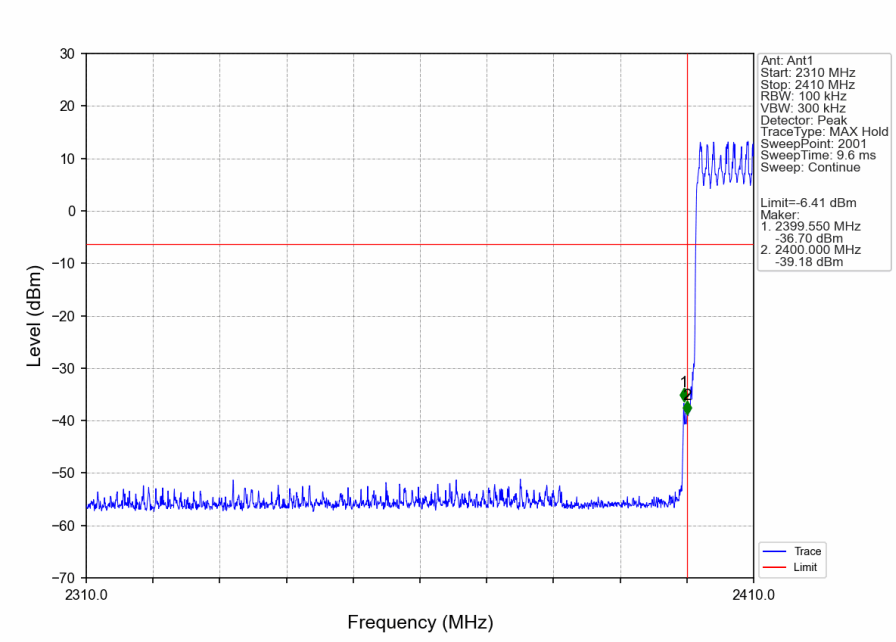

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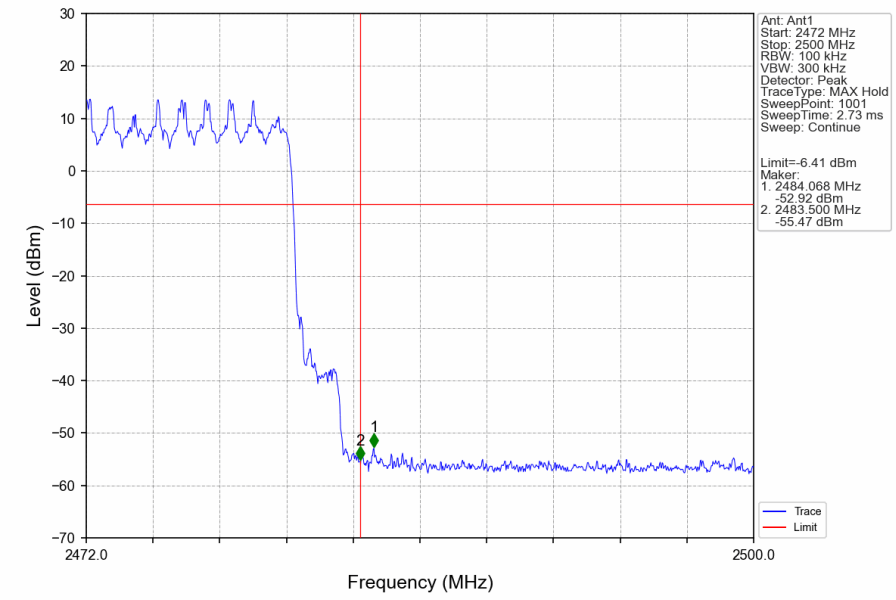

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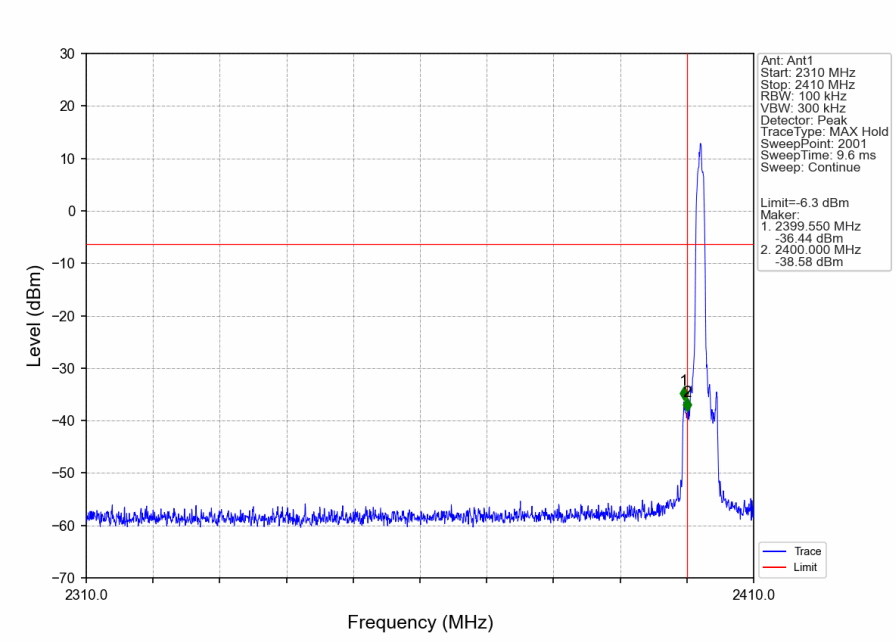
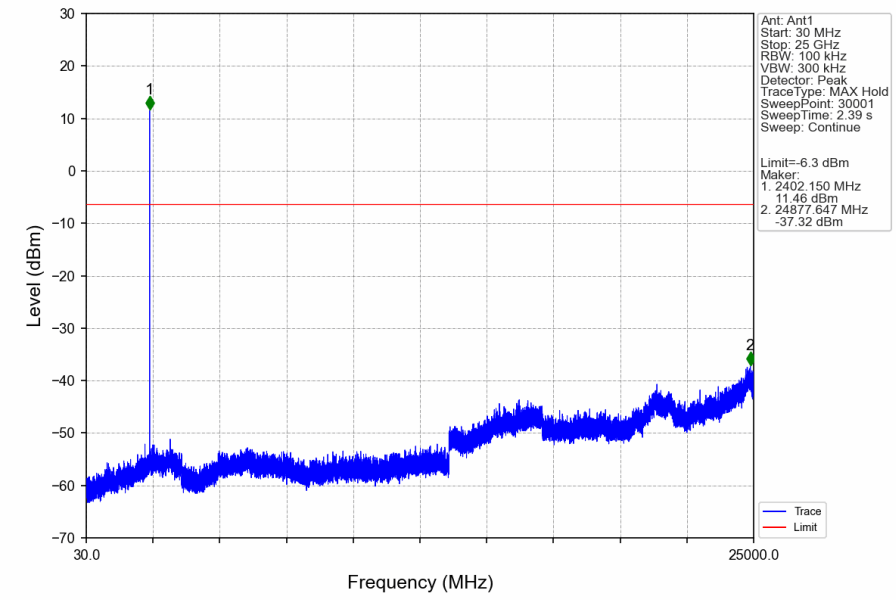
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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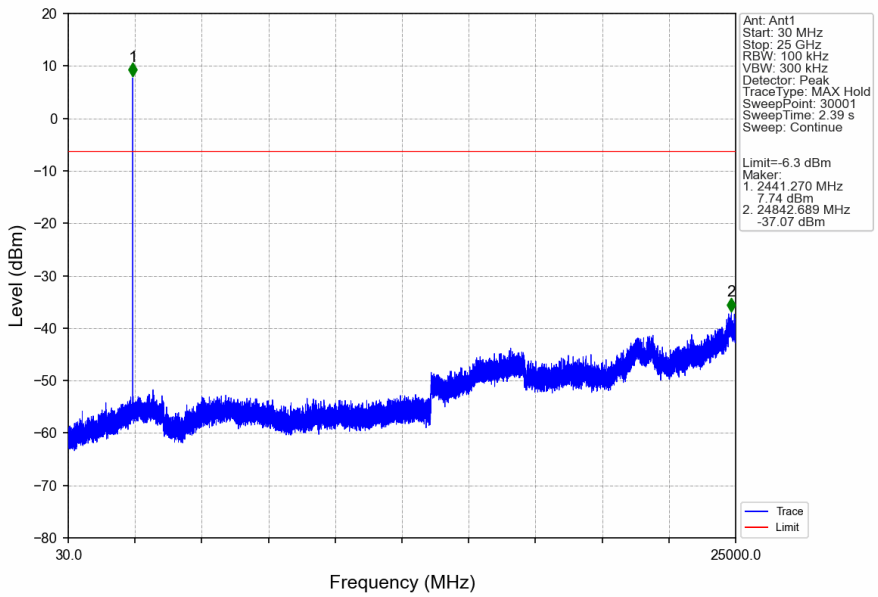
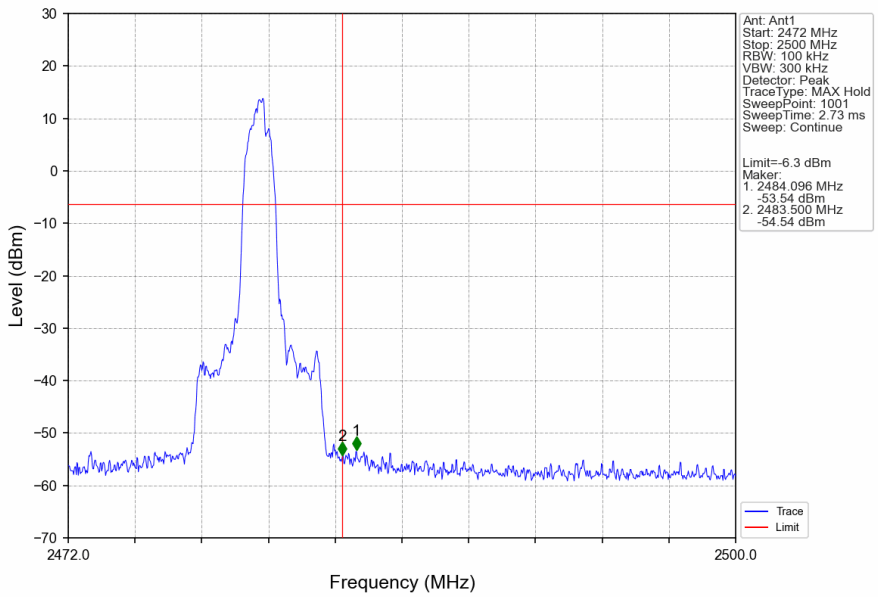
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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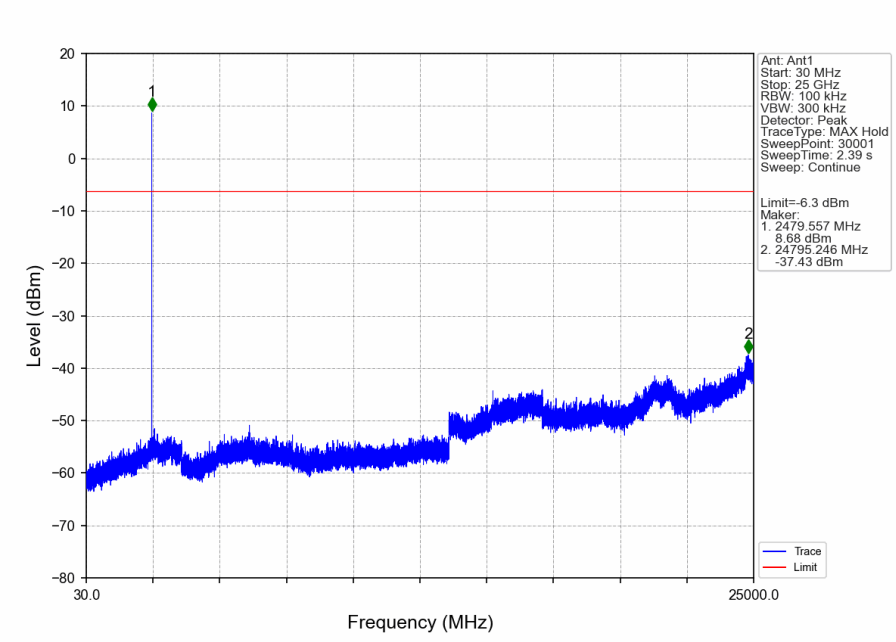
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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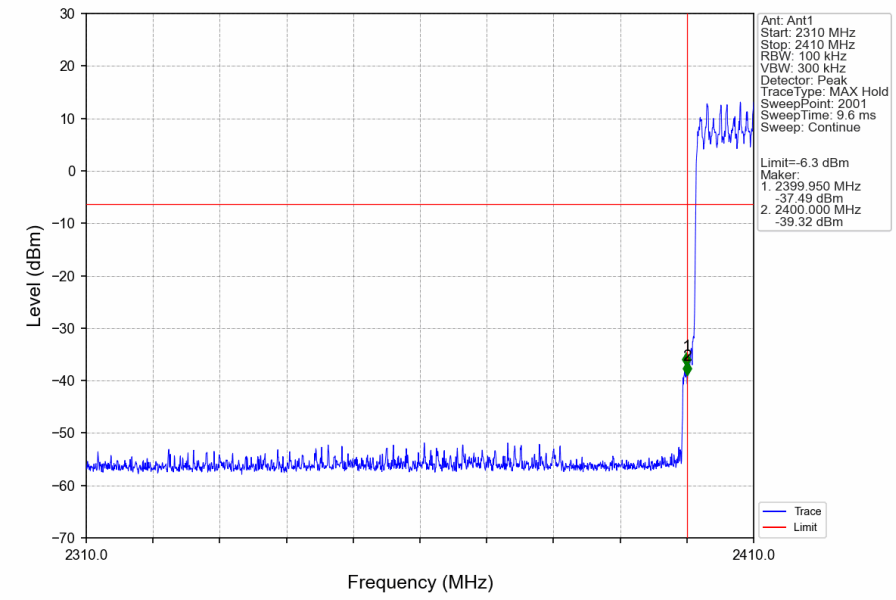

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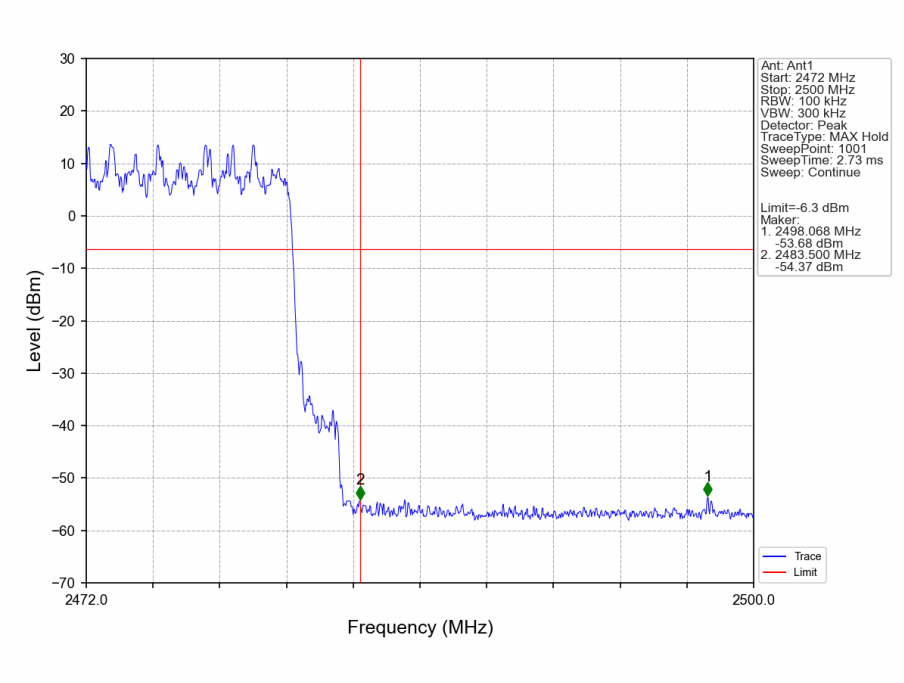
8DPSK_3DH5_HOPP_Ant1_NTNV



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For Left earbud:

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	0.924	/	Pass
		2441	DH5	1	0.932	/	Pass
		2480	DH5	1	0.906	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.135	/	Pass
		2441	2DH5	1	1.138	/	Pass
		2480	2DH5	1	1.137	/	Pass
8DPSK	SISO	2402	3DH5	1	1.150	/	Pass
		2441	3DH5	1	1.149	/	Pass
		2480	3DH5	1	1.152	/	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	1.042	/	Pass
		2441	DH5	1	1.043	/	Pass
		2480	DH5	1	1.027	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.212	/	Pass
		2441	2DH5	1	1.211	/	Pass
		2480	2DH5	1	1.215	/	Pass
8DPSK	SISO	2402	3DH5	1	1.259	/	Pass
		2441	3DH5	1	1.262	/	Pass
		2480	3DH5	1	1.265	/	Pass

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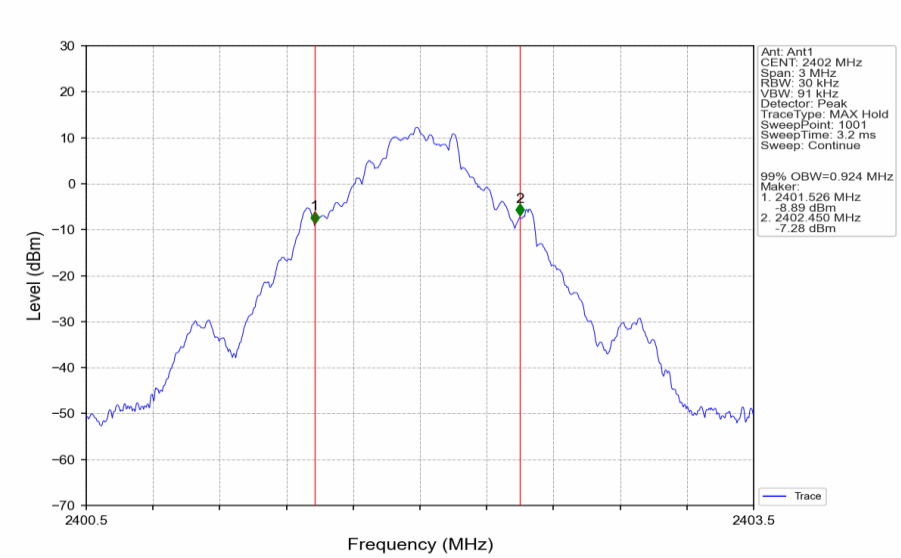
1.2 Test Graph

1.2.1 OBW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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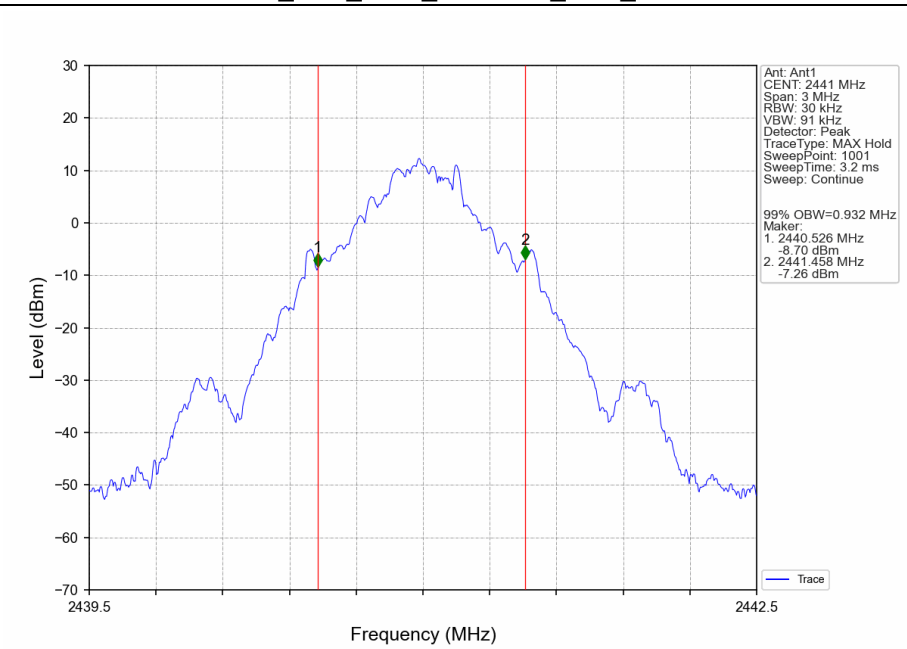

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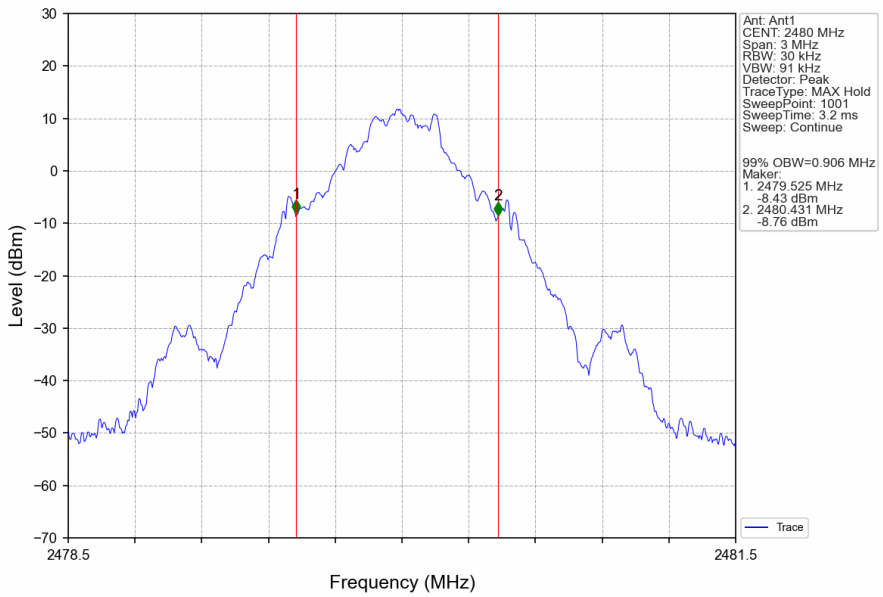
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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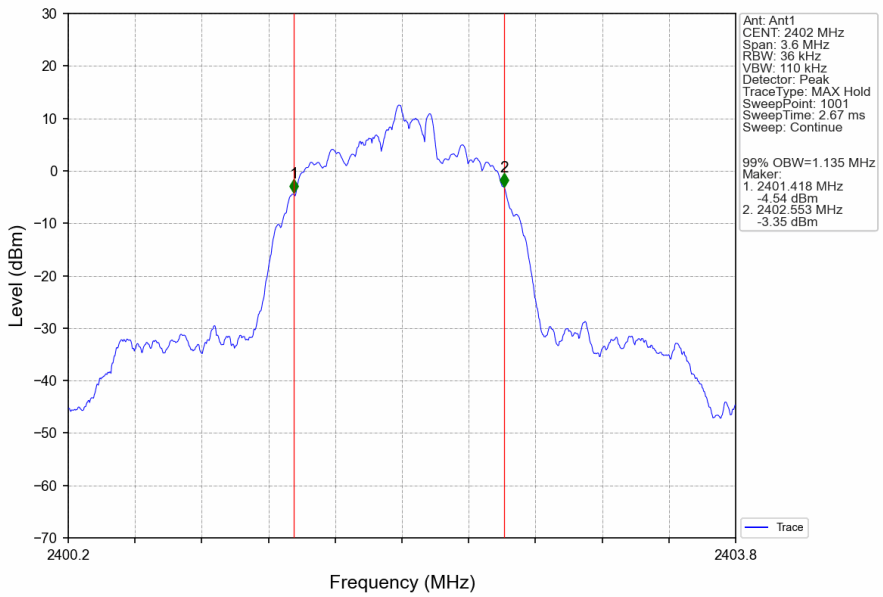

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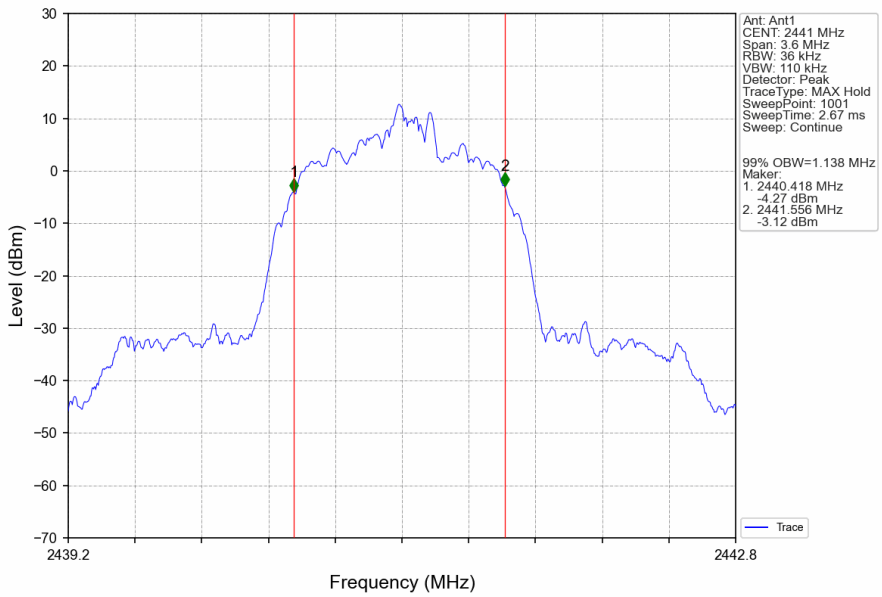

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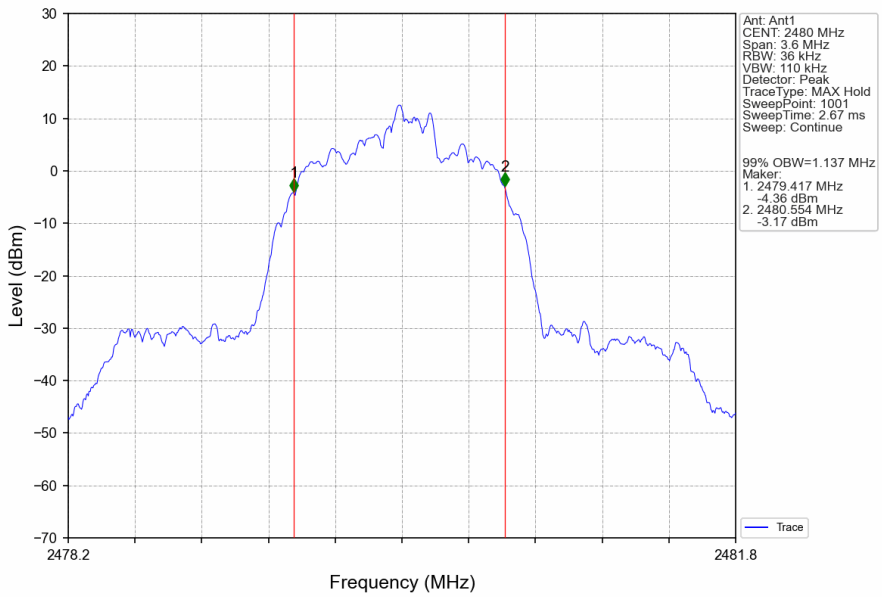

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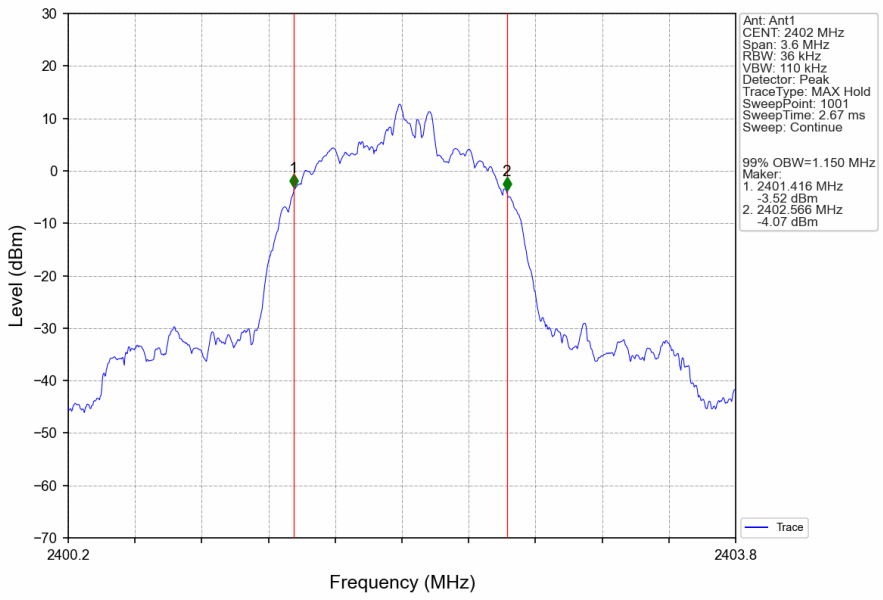
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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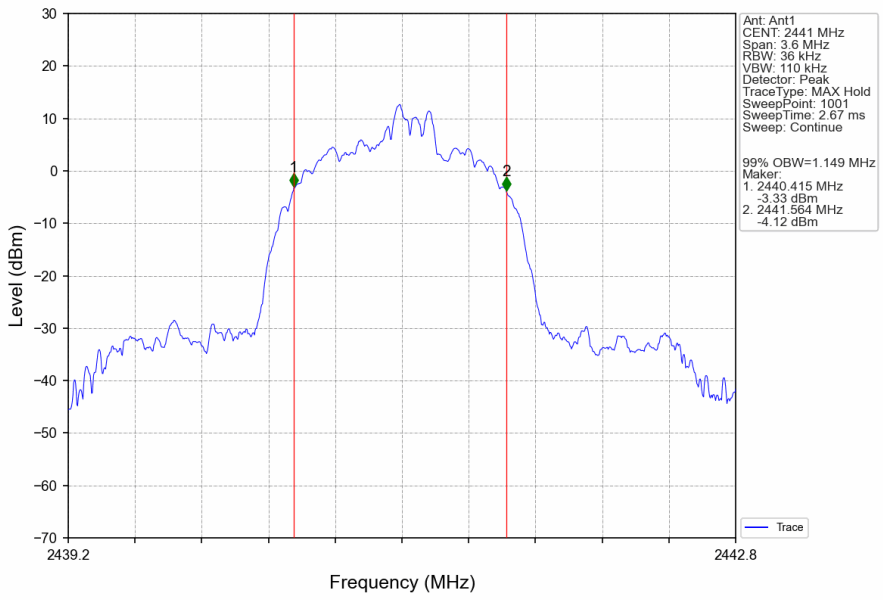

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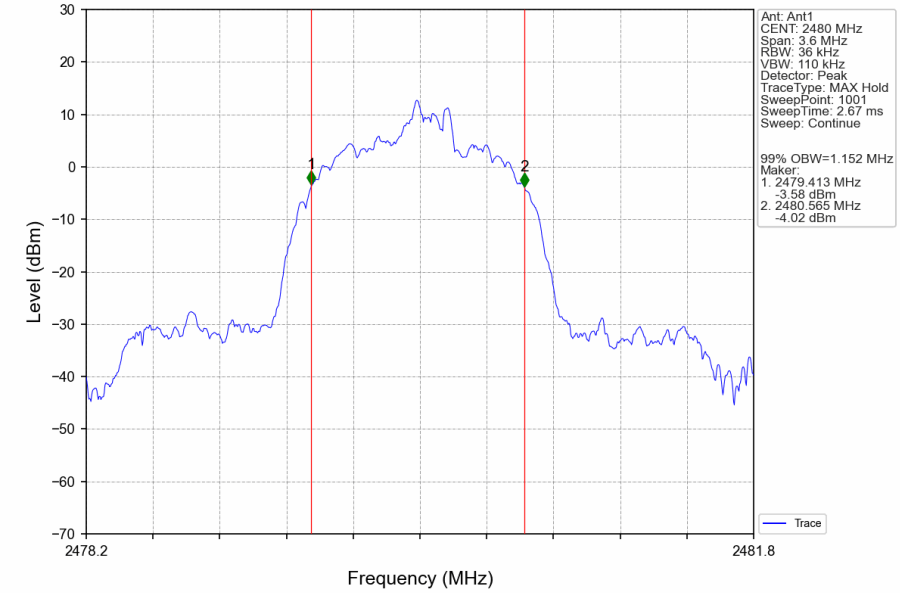
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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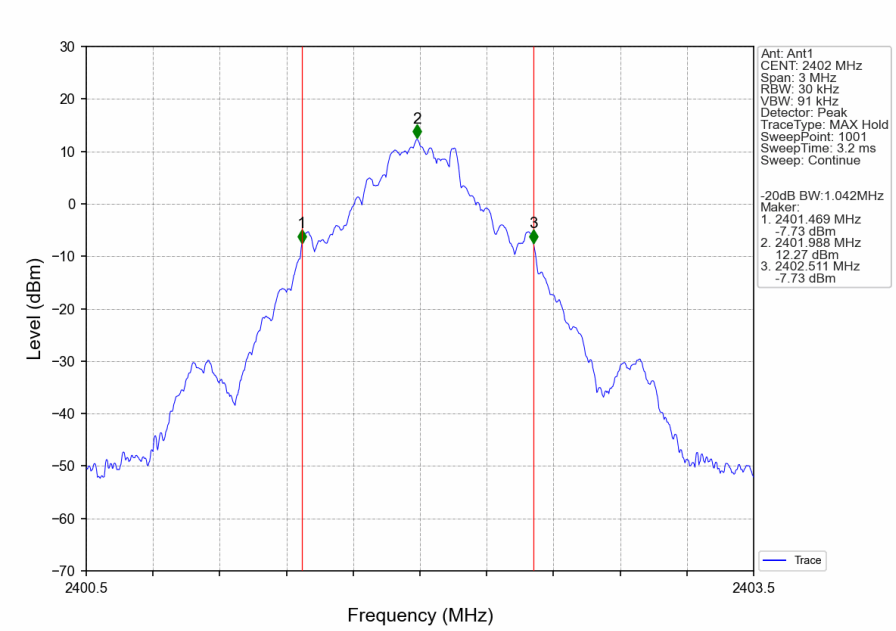
1.2.2 20dB BW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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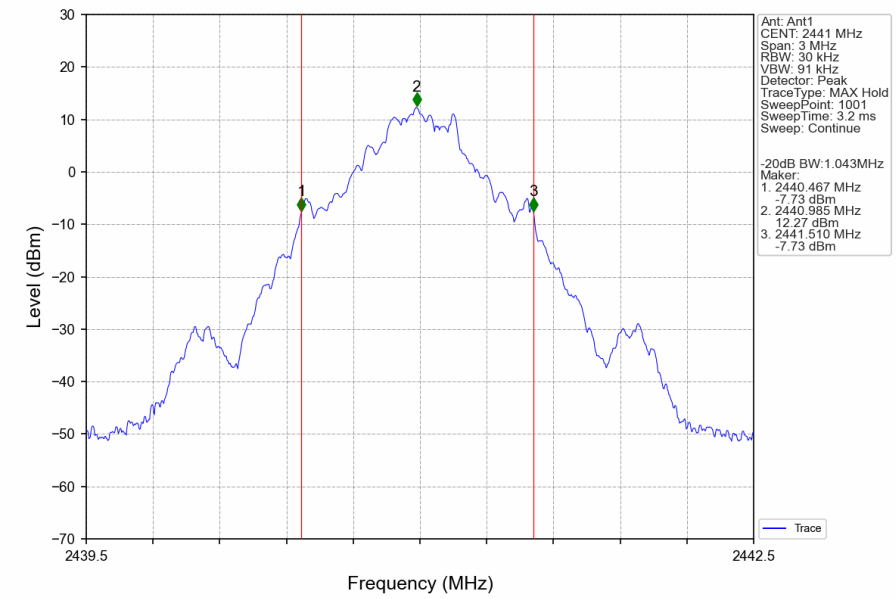

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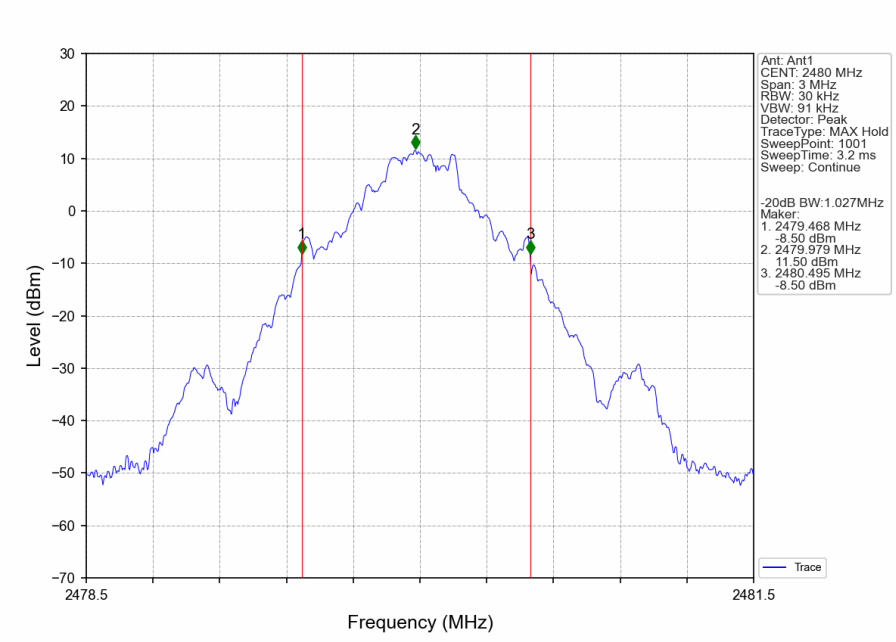
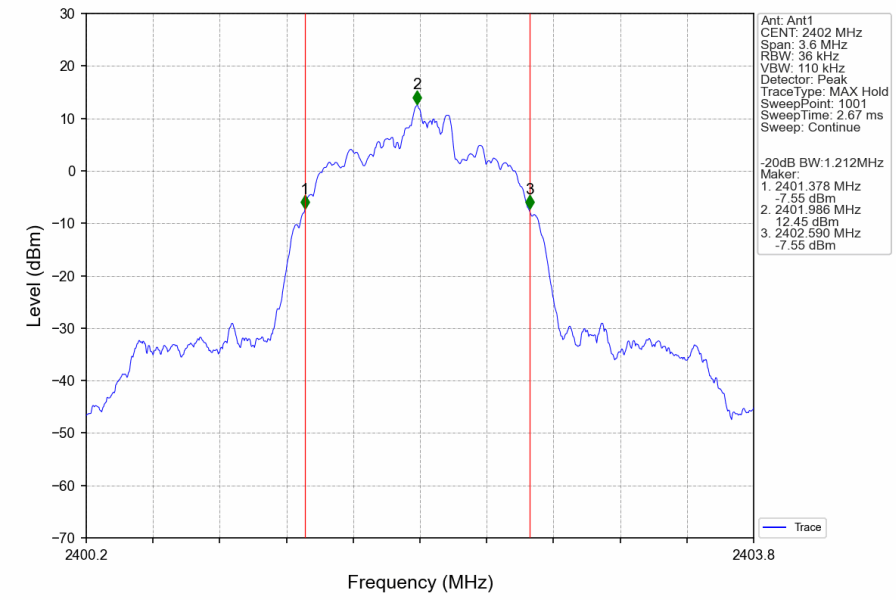
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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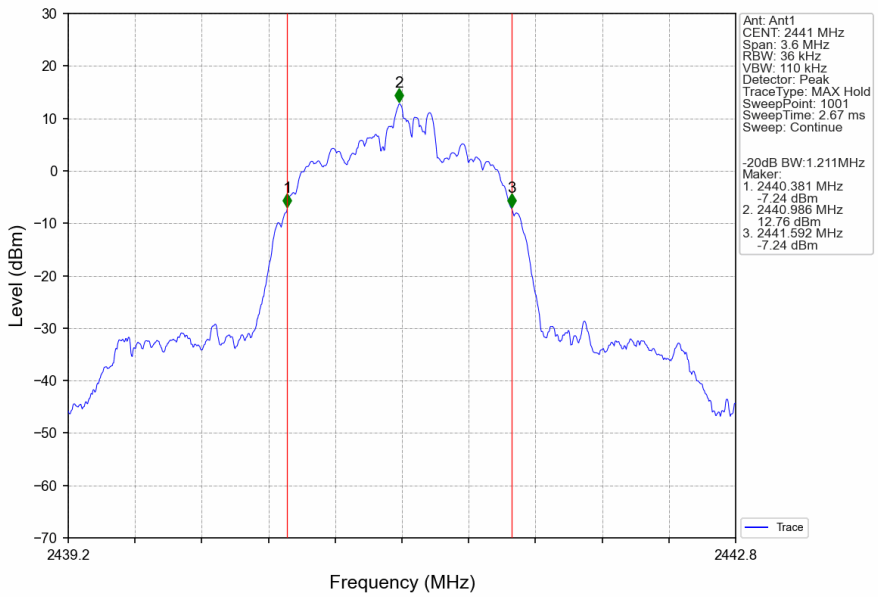
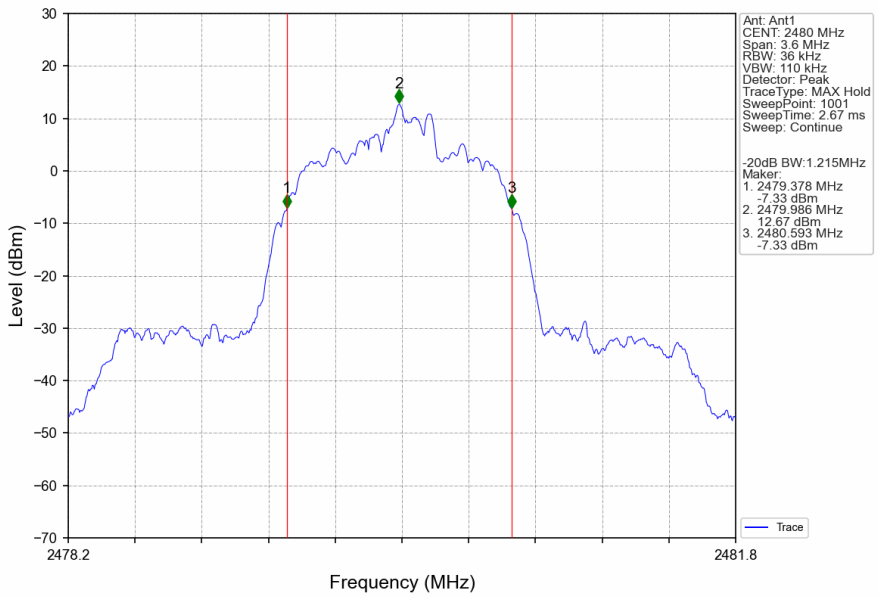
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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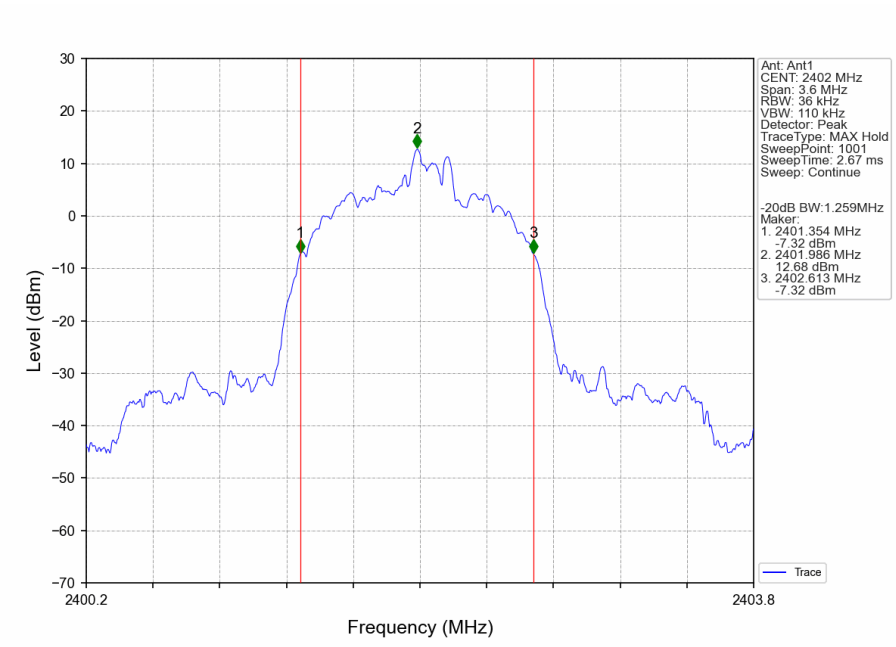
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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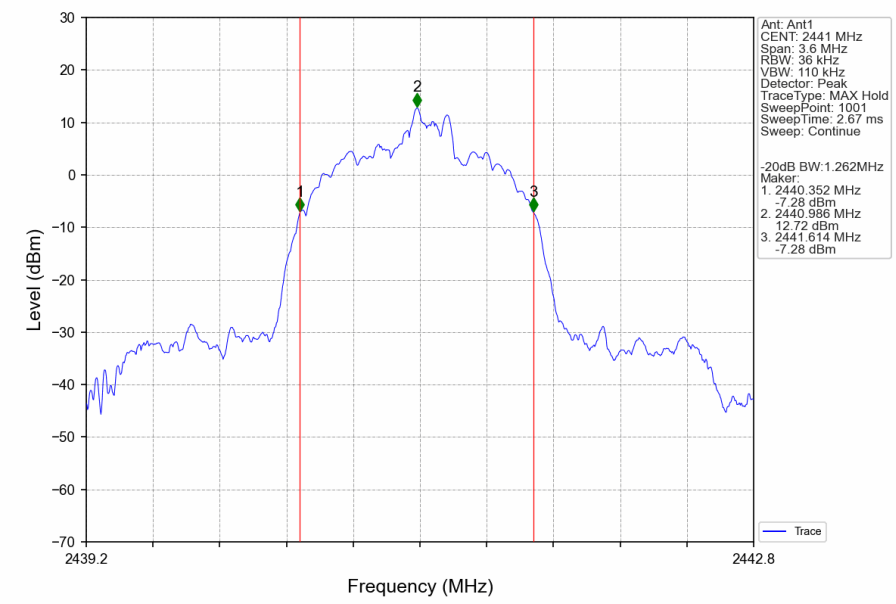

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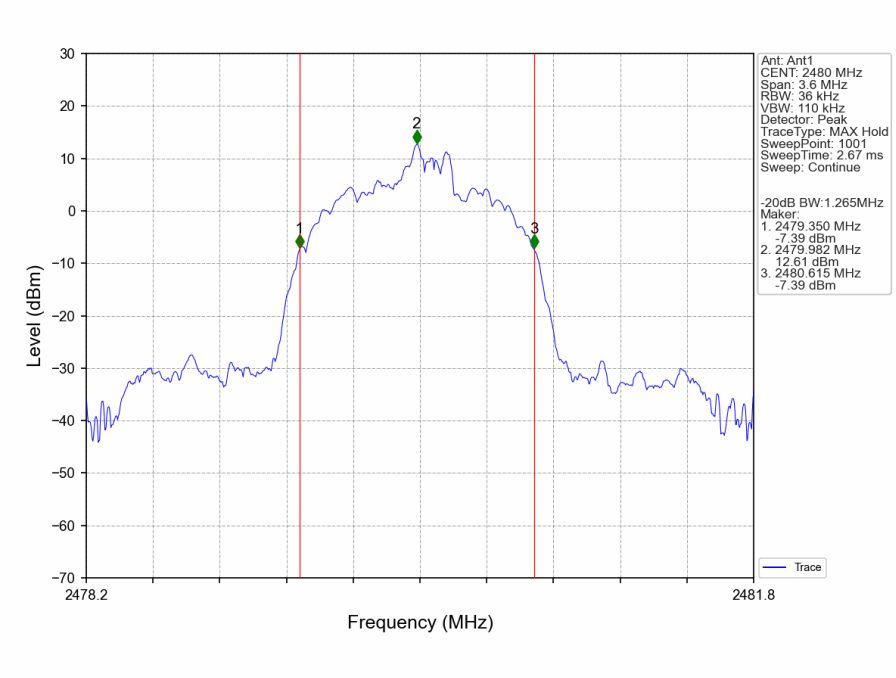

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2. Maximum Conducted Output Power

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	13.41	<=20.97	Pass
		2441	DH5	13.52	<=20.97	Pass
		2480	DH5	13.51	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.17	<=20.97	Pass
		2441	2DH5	13.51	<=20.97	Pass
		2480	2DH5	13.51	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.37	<=20.97	Pass
		2441	3DH5	13.49	<=20.97	Pass
		2480	3DH5	13.50	<=20.97	Pass
Note1: Antenna Gain: Ant1: -2.90dBi;						

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	1.043	>=0.695	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.010	1.215	>=0.81	Pass
8DPSK	SISO	HOPP	3DH5	0.998	1.265	>=0.843	Pass

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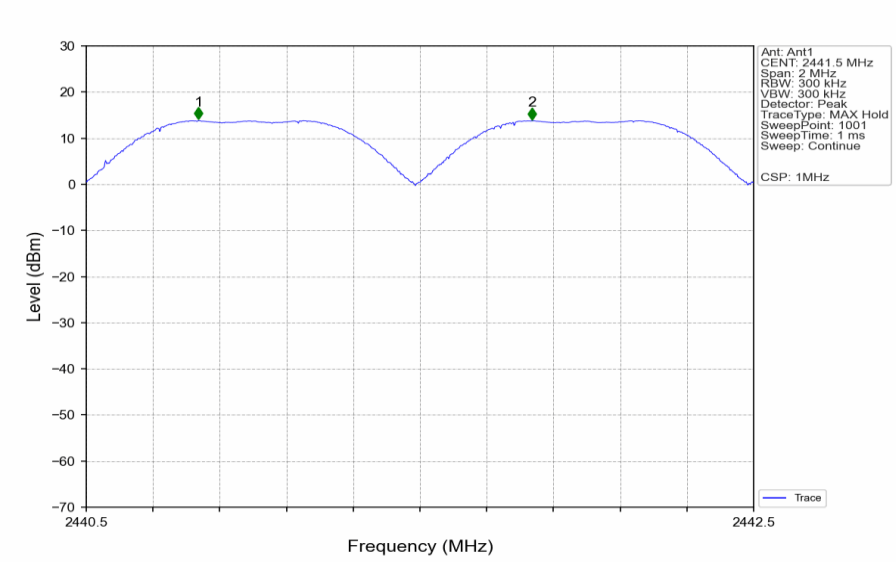
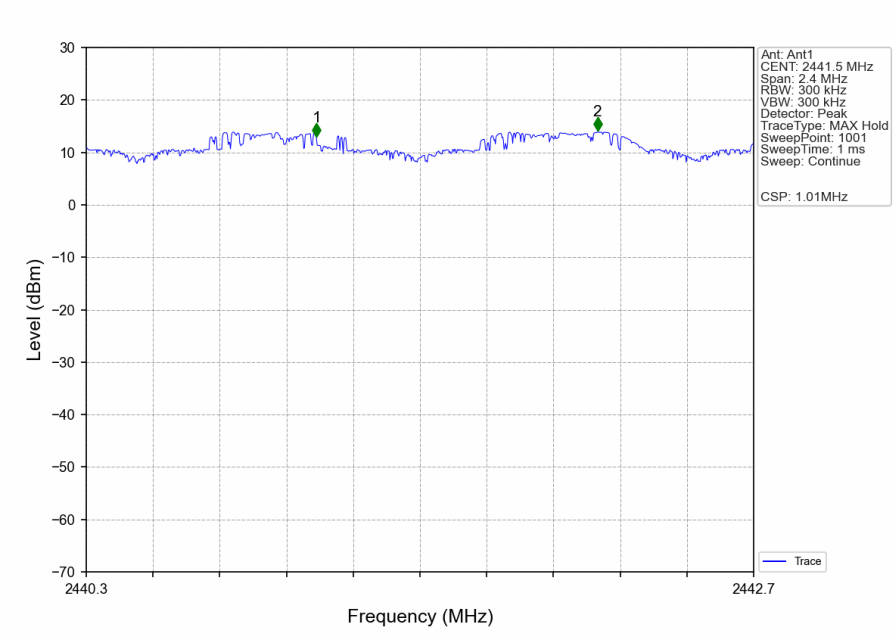
3.2 Test Graph

3.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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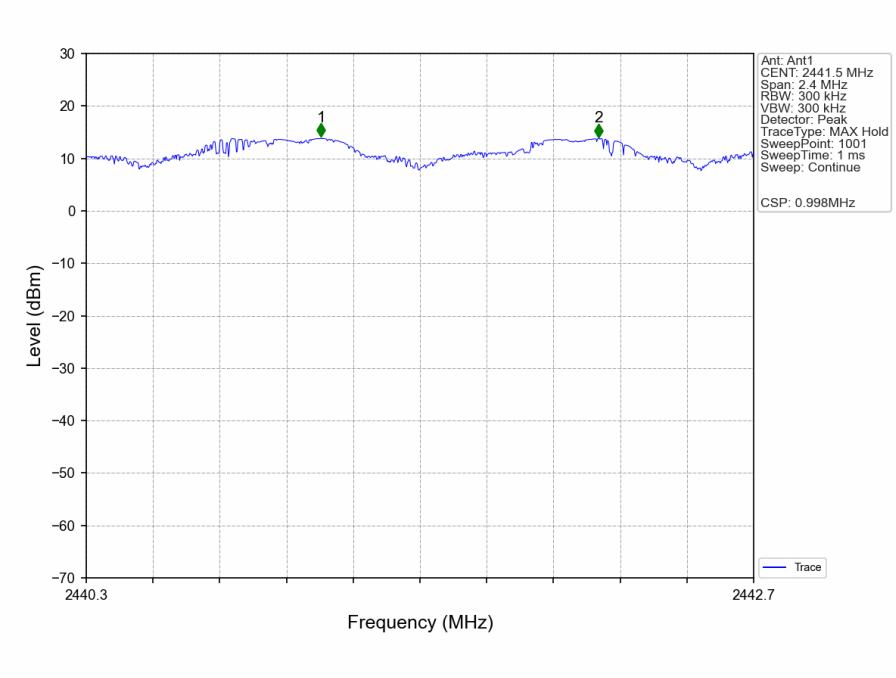

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4. Number of Hopping Frequencies

4.1 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

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4.2 Test Graph

4.2.1 HoppNum

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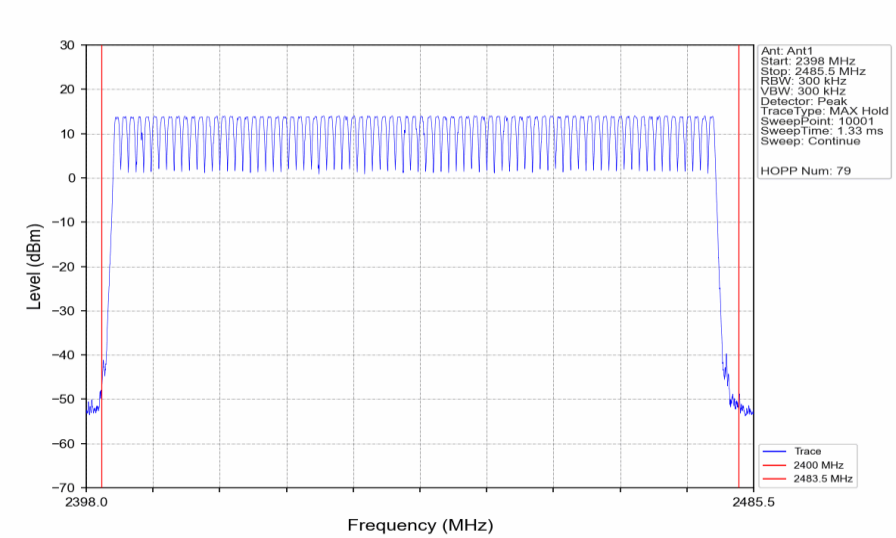
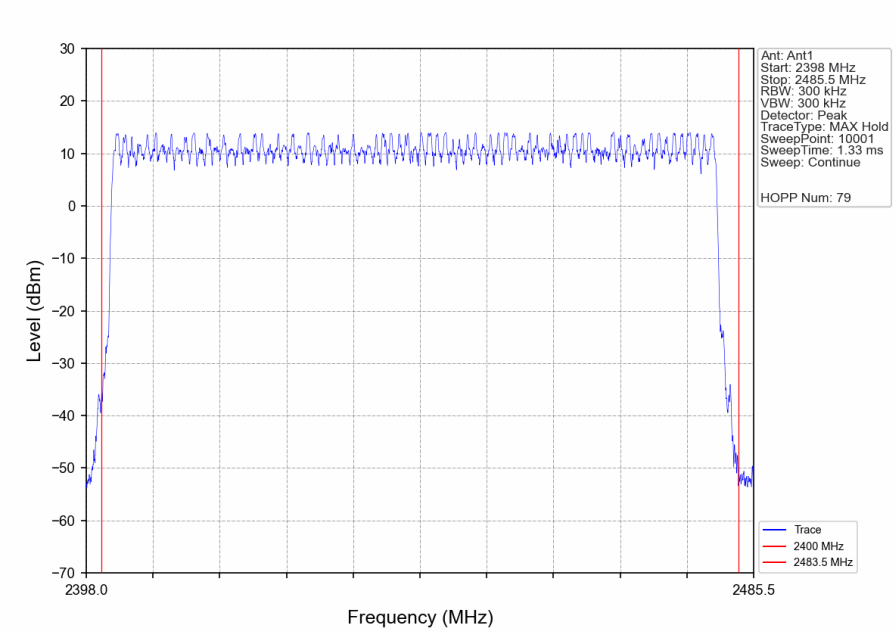


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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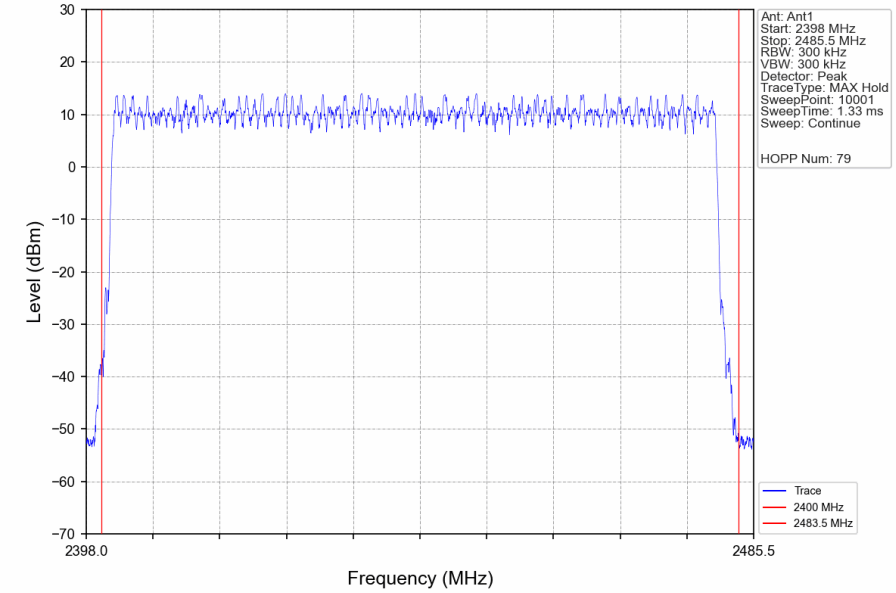

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5. Time of Occupancy (Dwell Time)

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	0.390	31.600	151	58.890	<=400	Pass
			DH3	1.646	31.600	109	179.414	<=400	Pass
			DH5	2.894	31.600	76	219.944	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.398	31.600	150	59.700	<=400	Pass
			2DH3	1.650	31.600	118	194.700	<=400	Pass
			2DH5	2.898	31.600	83	240.534	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	150	59.700	<=400	Pass
			3DH3	1.648	31.600	110	181.280	<=400	Pass
			3DH5	2.900	31.600	75	217.500	<=400	Pass

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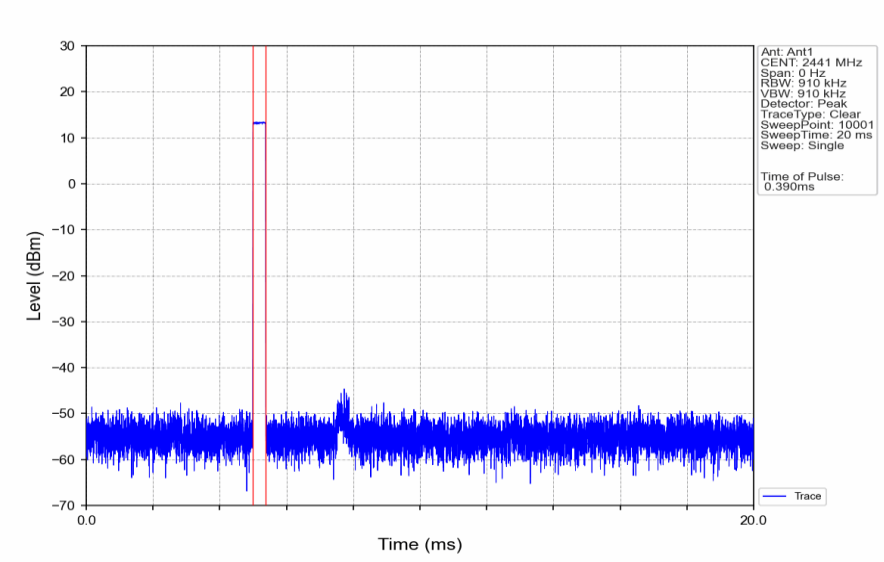
5.2 Test Graph

5.2.1 Ant1

GFSK_DH1_HOPP_Ant1_NTNV



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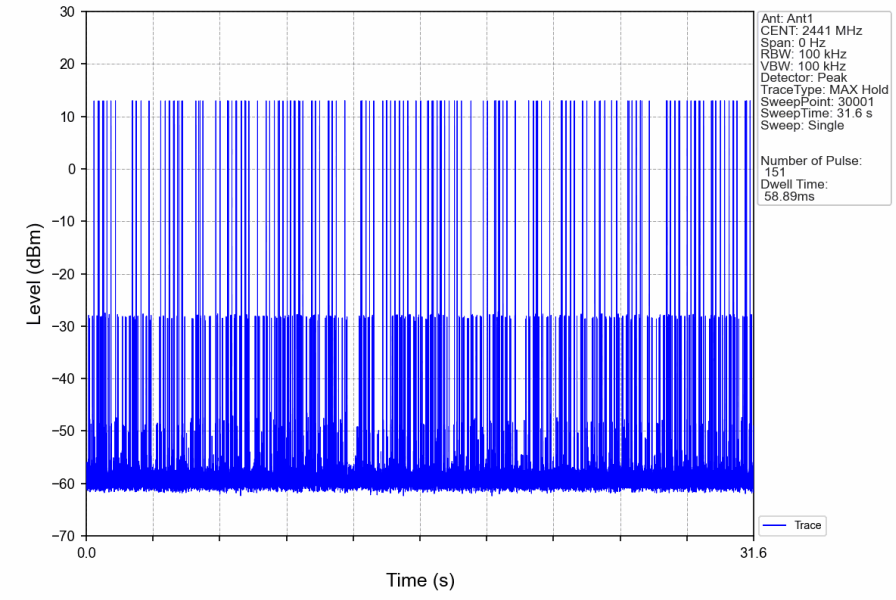

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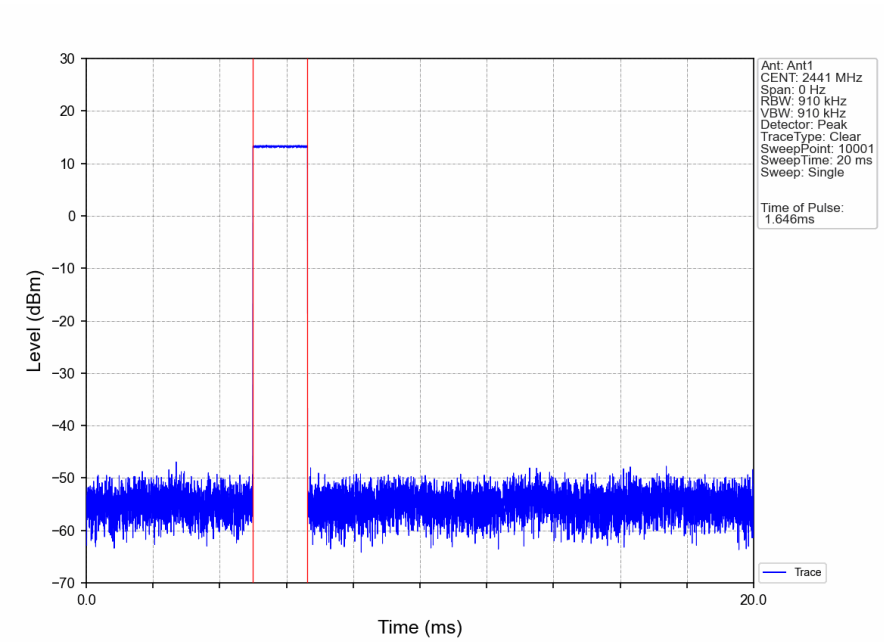
GFSK_DH3_HOPP_Ant1_NTNV



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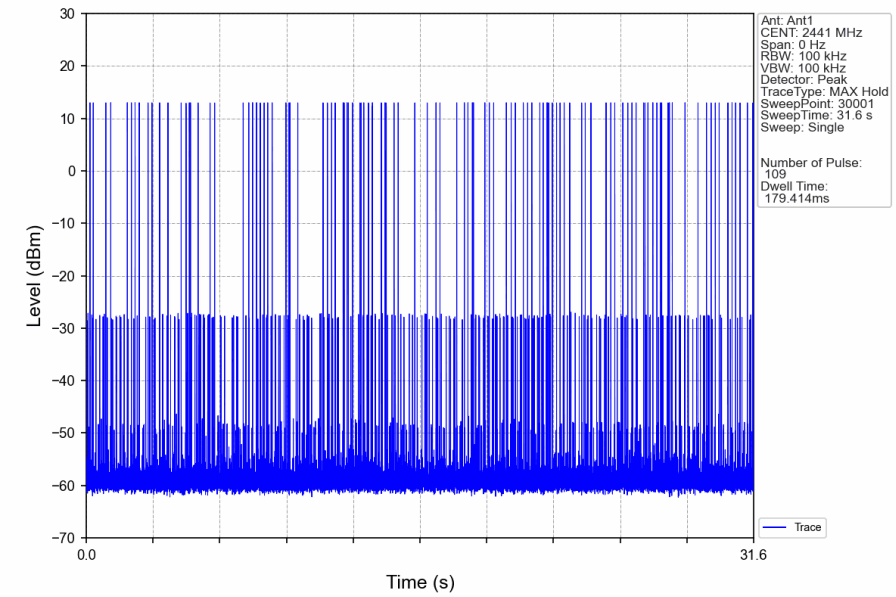

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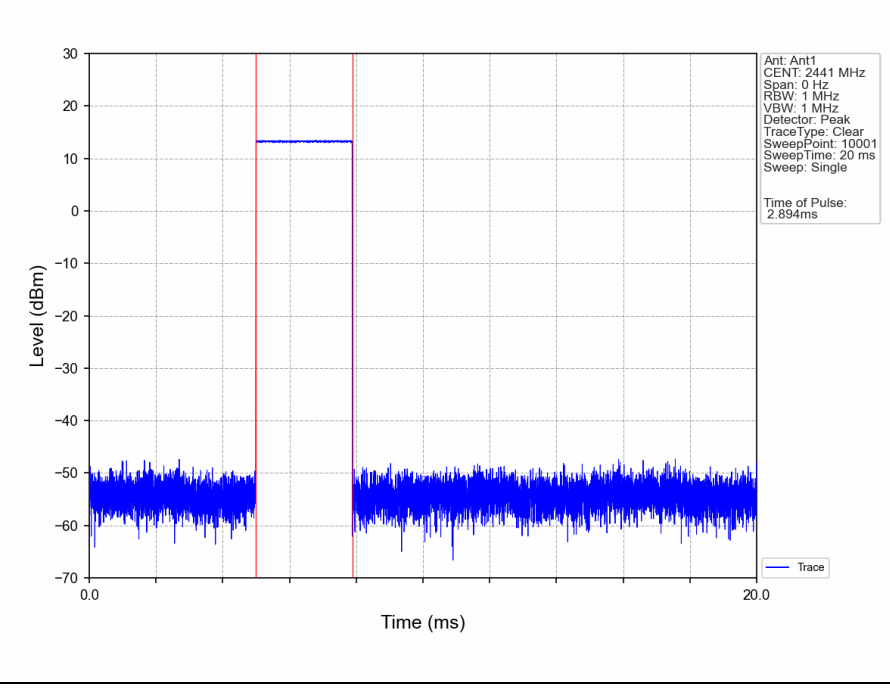
GFSK_DH5_HOPP_Ant1_NTNV



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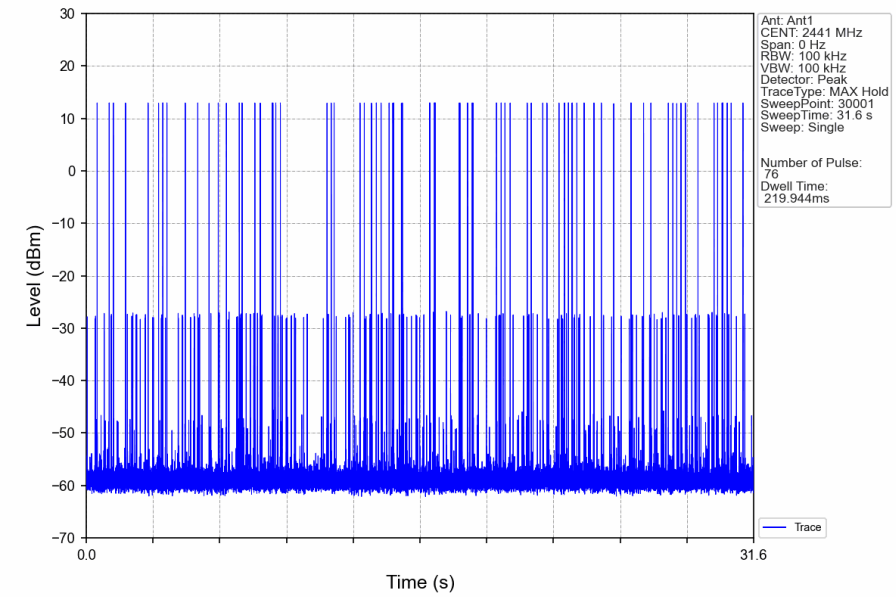

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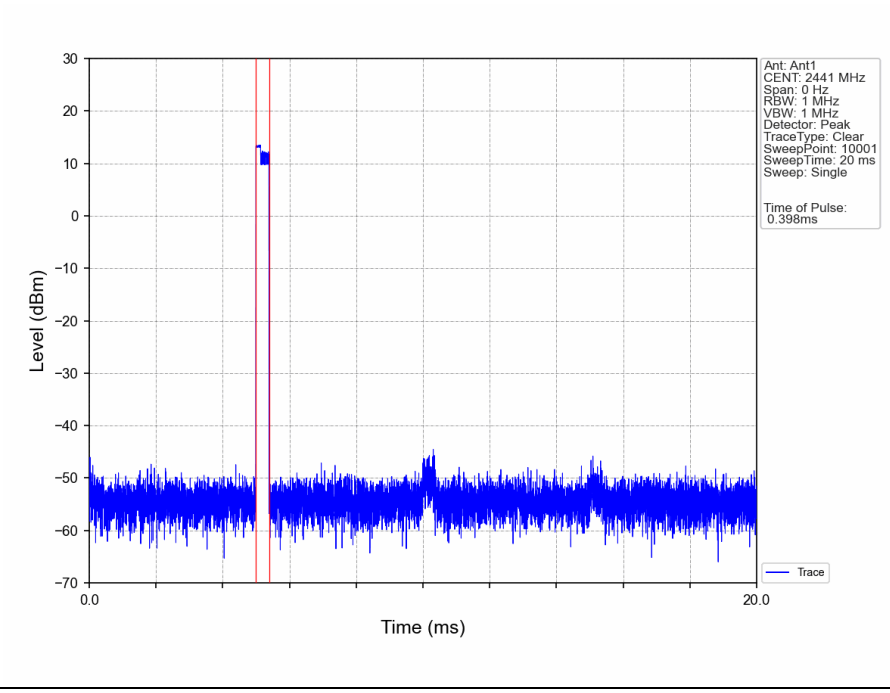
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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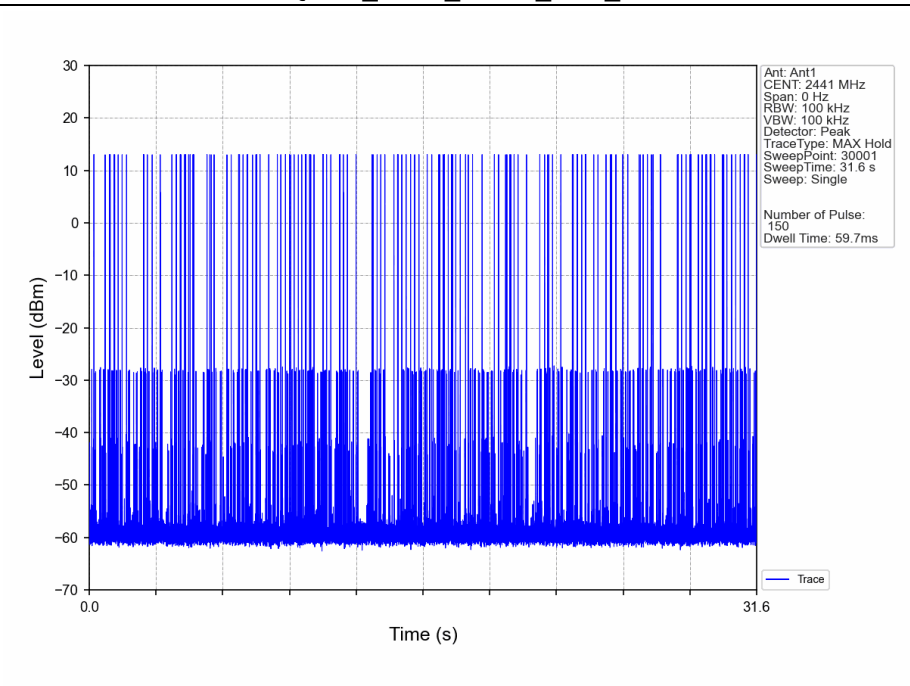

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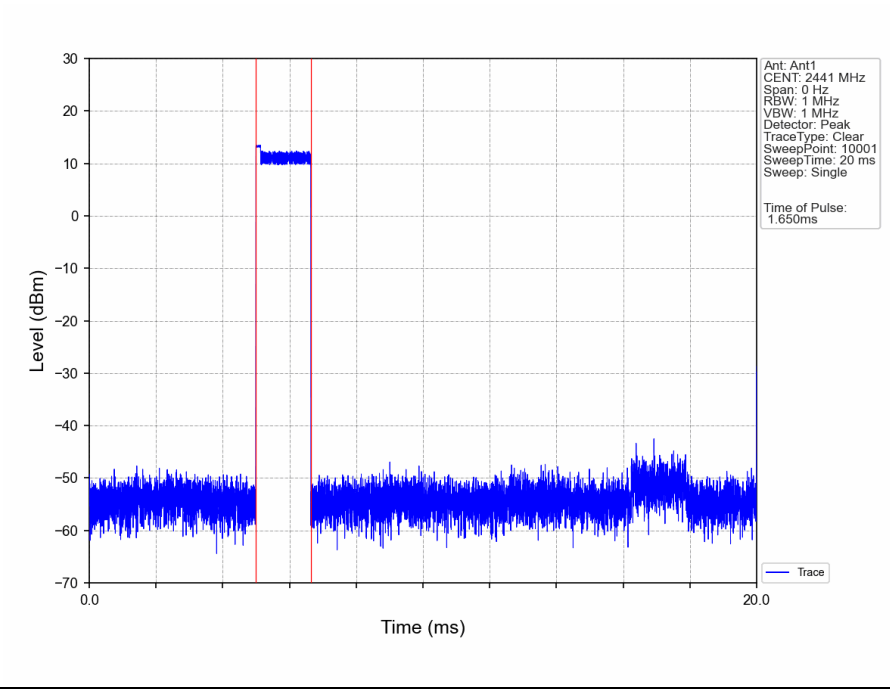
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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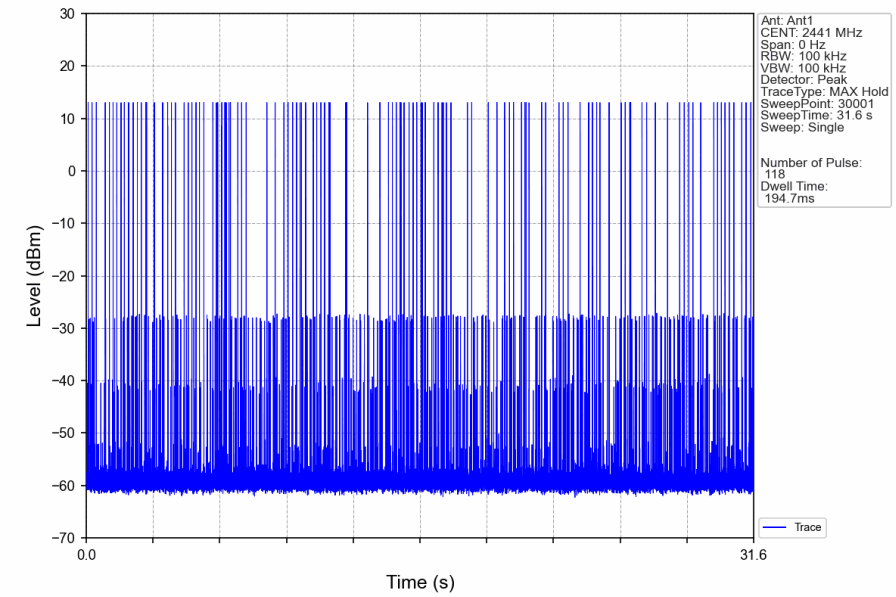

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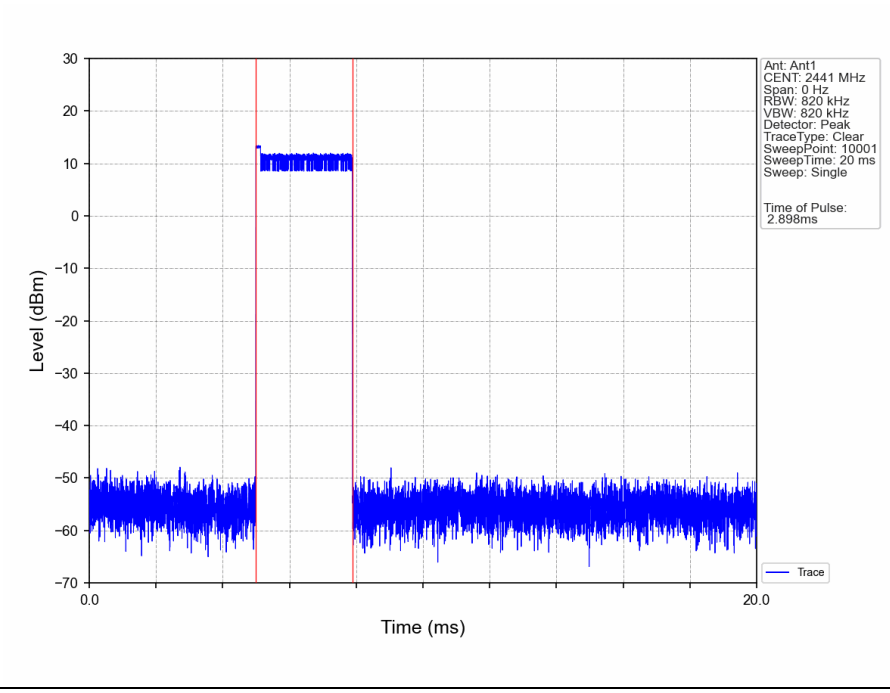
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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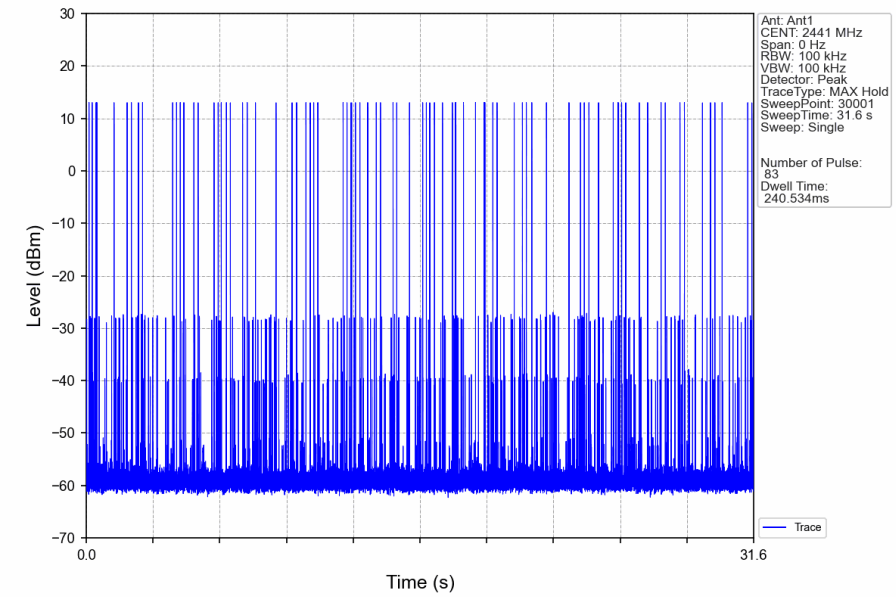

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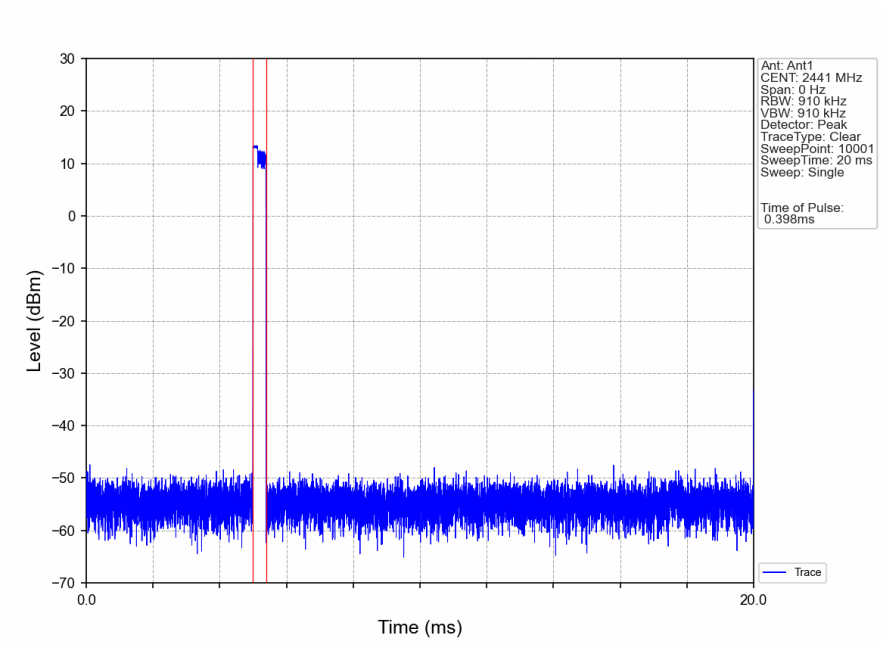
8DPSK_3DH1_HOPP_Ant1_NTNV



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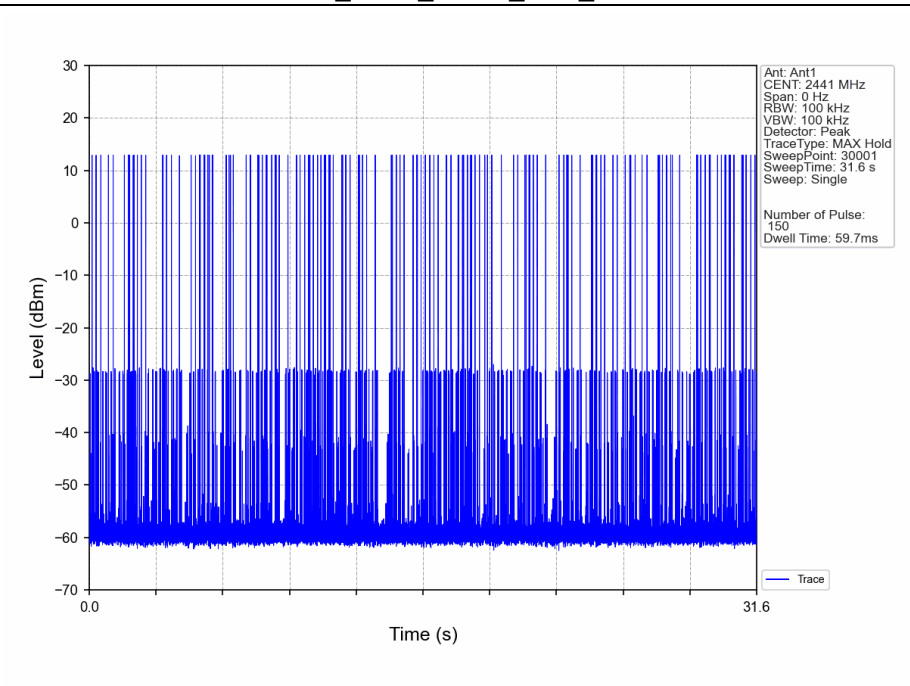

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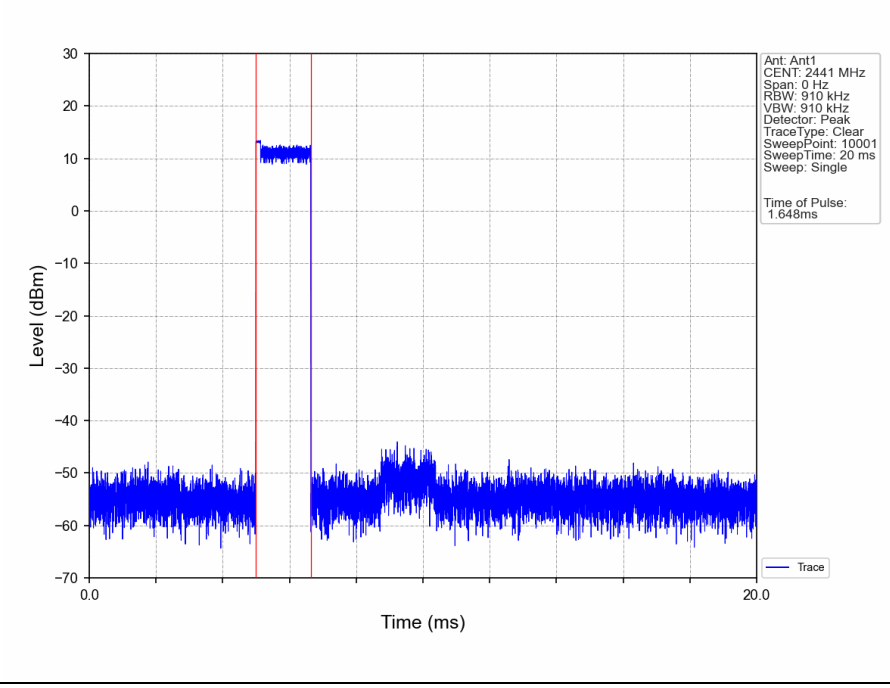
8DPSK_3DH3_HOPP_Ant1_NTNV



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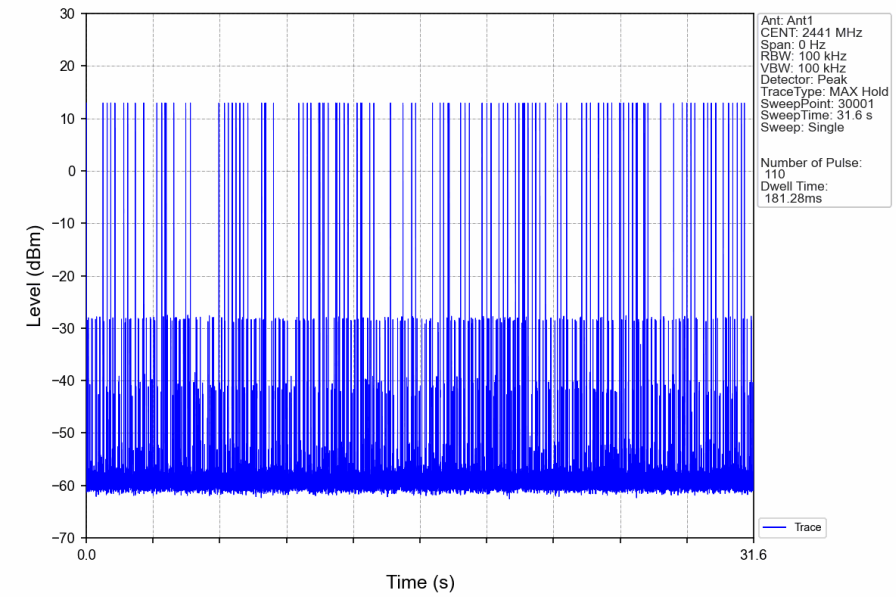

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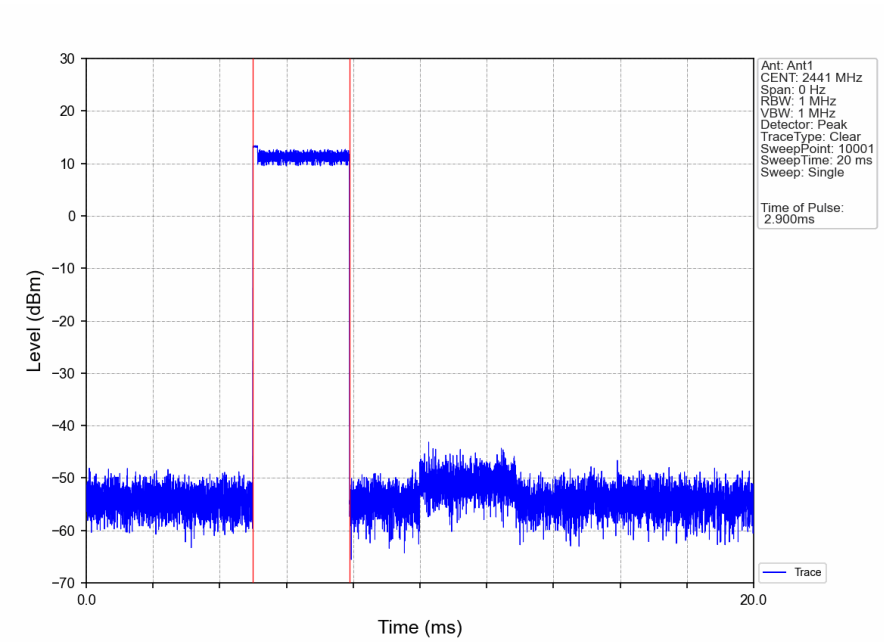
8DPSK_3DH5_HOPP_Ant1_NTNV



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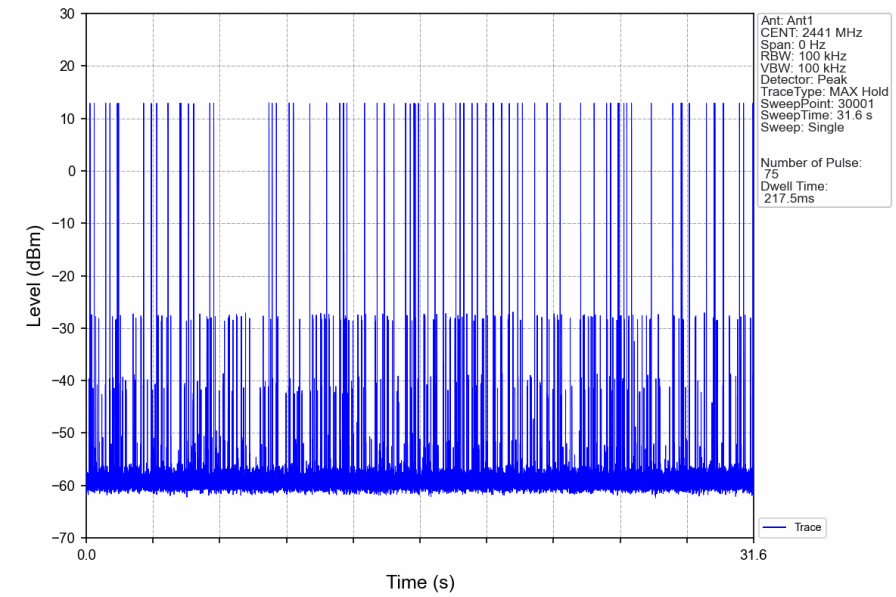

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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.22
		2441	DH5	1	13.29
		2480	DH5	1	13.25
Pi/4DQPSK	SISO	2402	2DH5	1	12.85
		2441	2DH5	1	13.13
		2480	2DH5	1	13.17
8DPSK	SISO	2402	3DH5	1	13.19
		2441	3DH5	1	13.29
		2480	3DH5	1	13.27
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 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.29	-6.71	Pass
		2441	DH5	1	13.29	-6.71	Pass
		2480	DH5	1	13.29	-6.71	Pass
		HOPP	DH5	1	13.29	-6.71	Pass
					13.29	-6.71	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	13.17	-6.83	Pass
		2441	2DH5	1	13.17	-6.83	Pass
		2480	2DH5	1	13.17	-6.83	Pass
		HOPP	2DH5	1	13.17	-6.83	Pass
					13.17	-6.83	Pass
8DPSK	SISO	2402	3DH5	1	13.29	-6.71	Pass
		2441	3DH5	1	13.29	-6.71	Pass
		2480	3DH5	1	13.29	-6.71	Pass
		HOPP	3DH5	1	13.29	-6.71	Pass
					13.29	-6.71	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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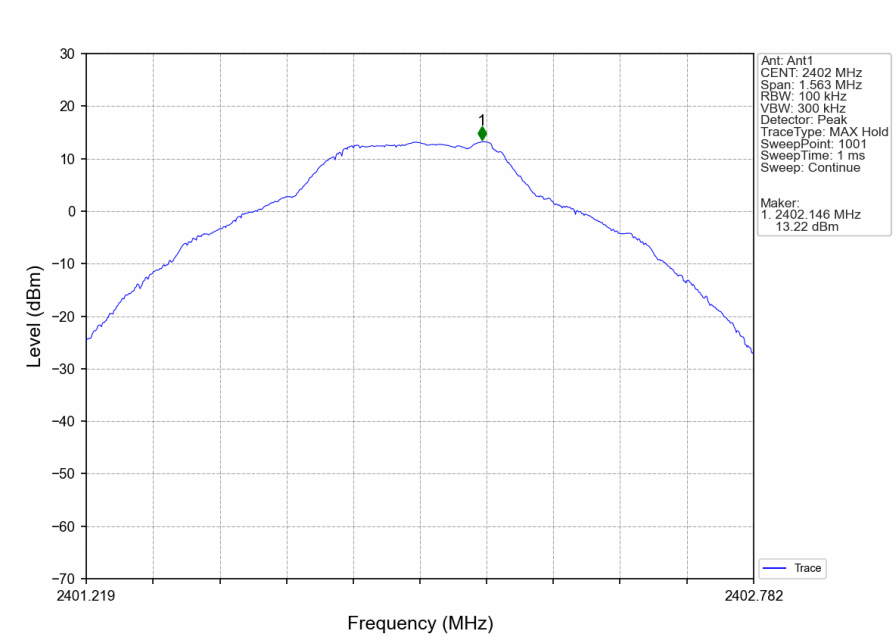
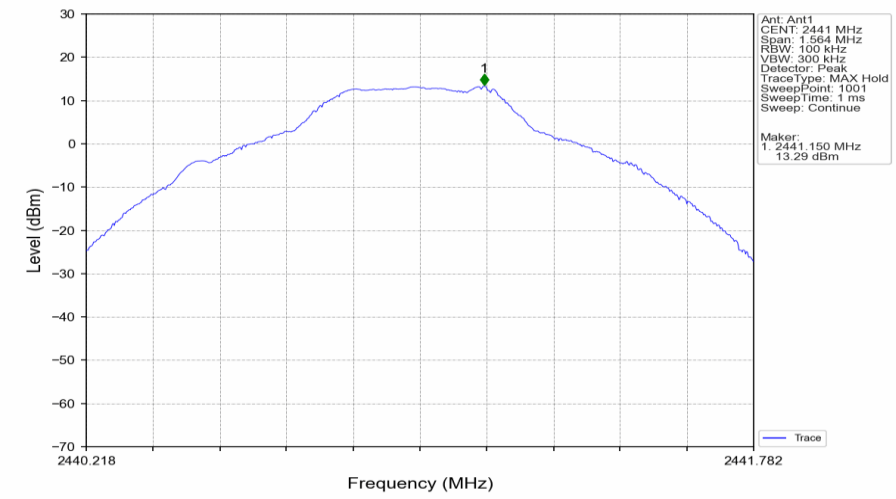
6.2 Test Graph

6.2.1 Ref

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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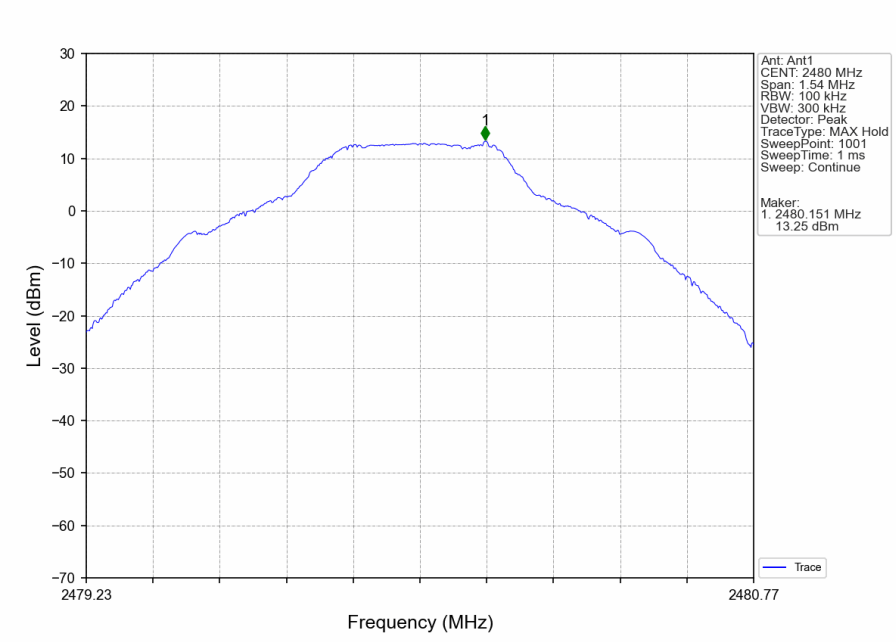
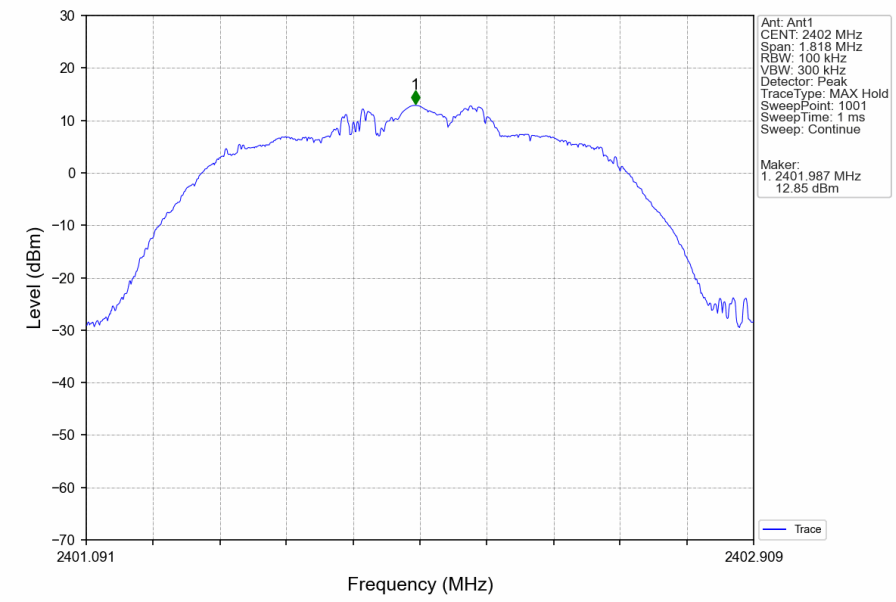
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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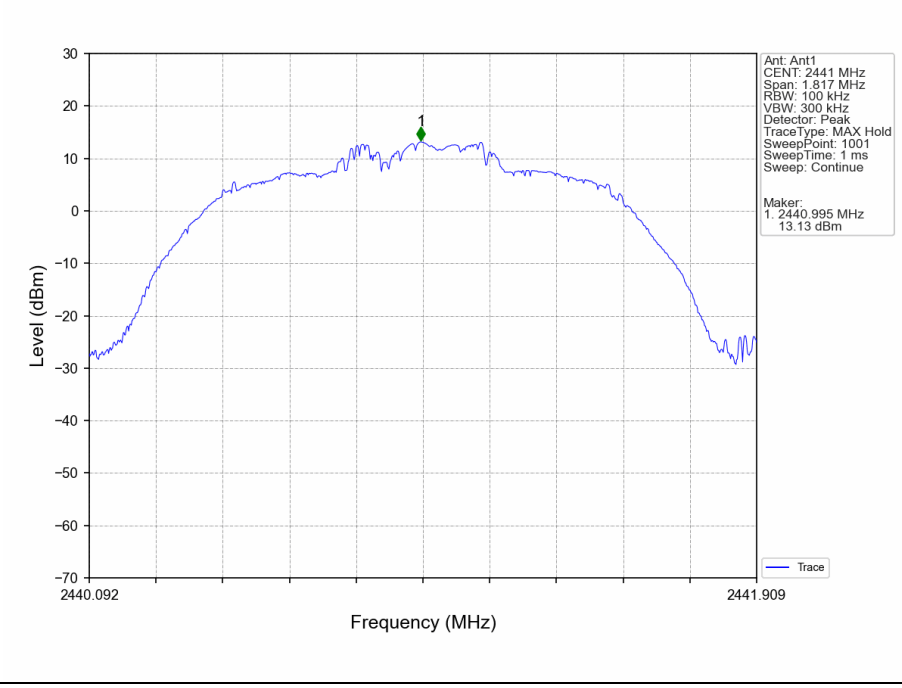
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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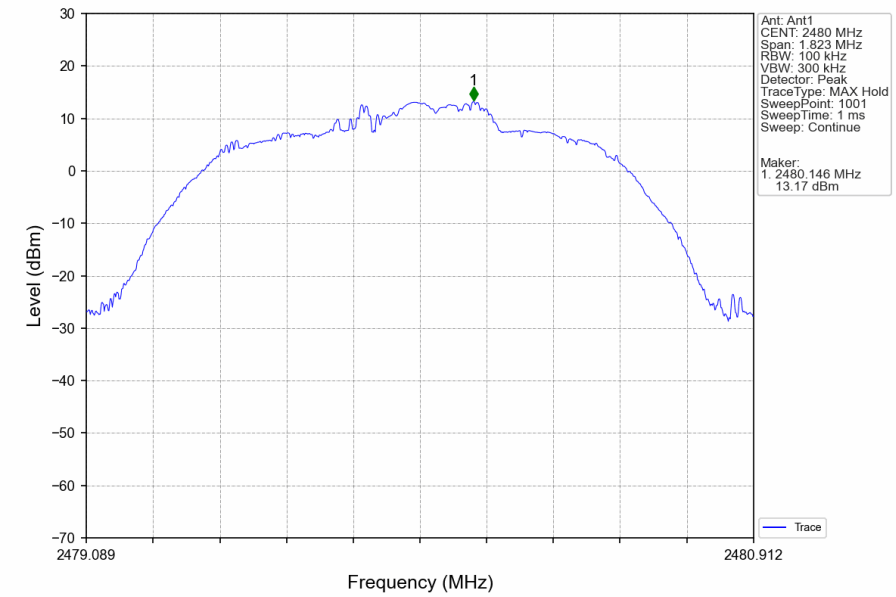

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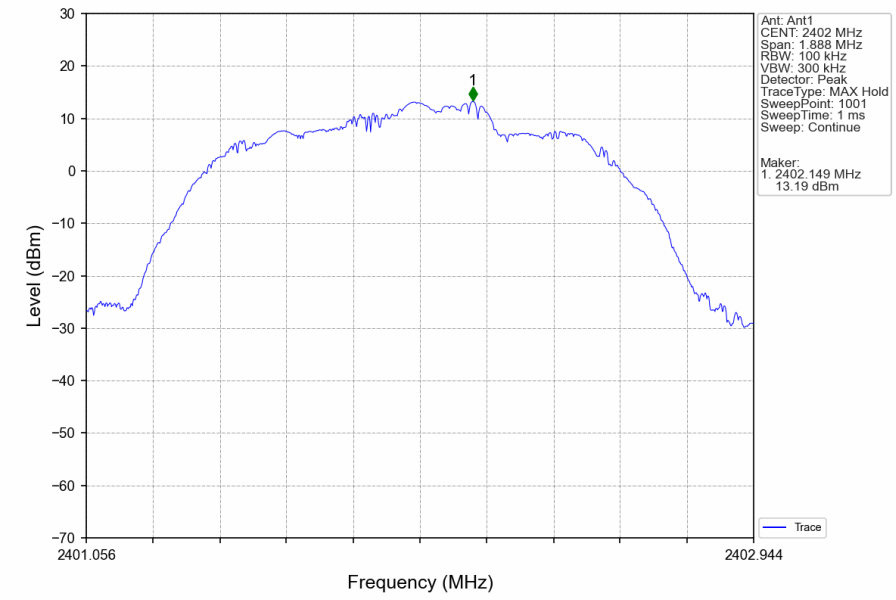
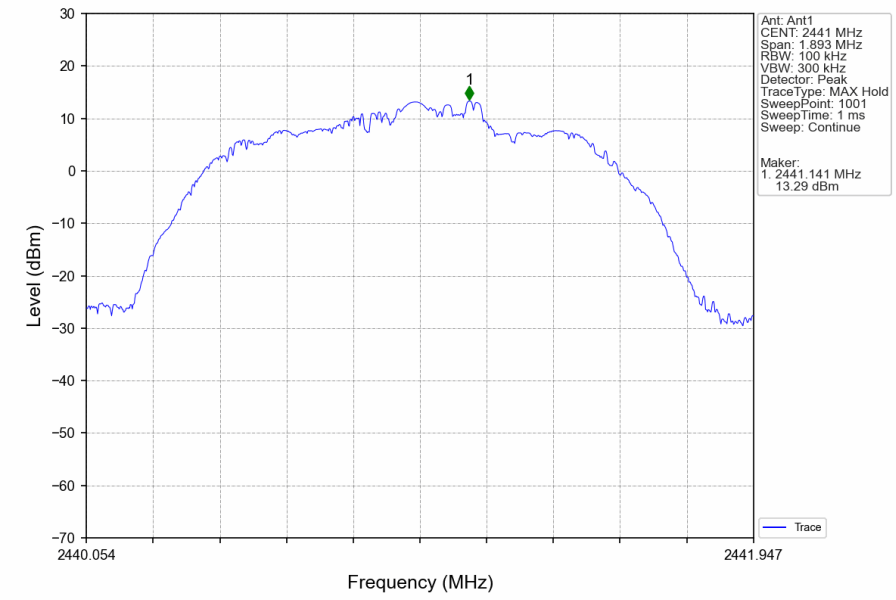
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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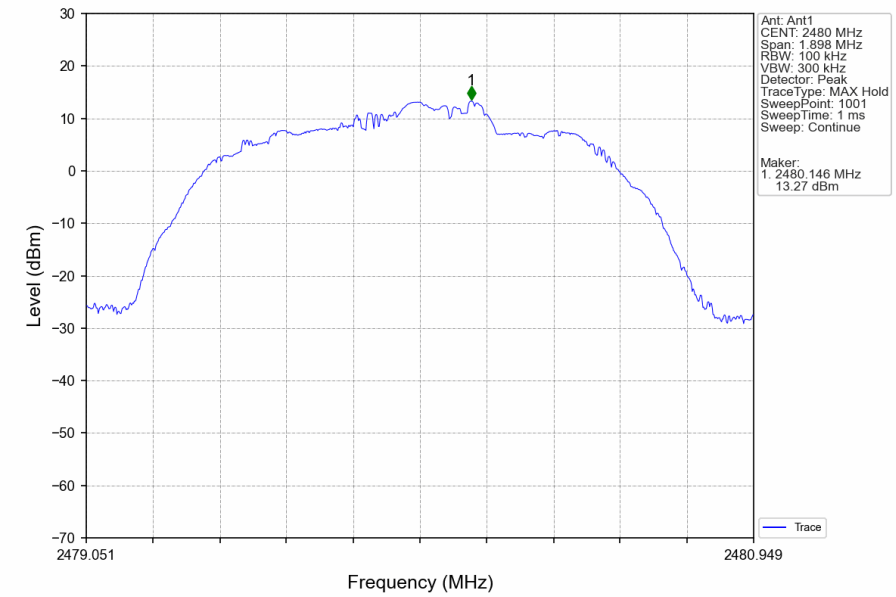
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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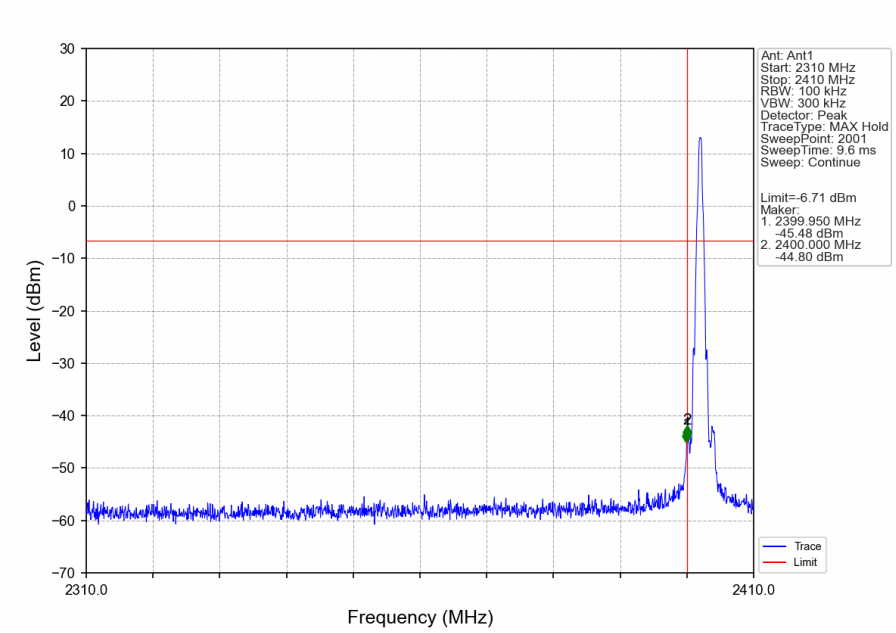
6.2.2 CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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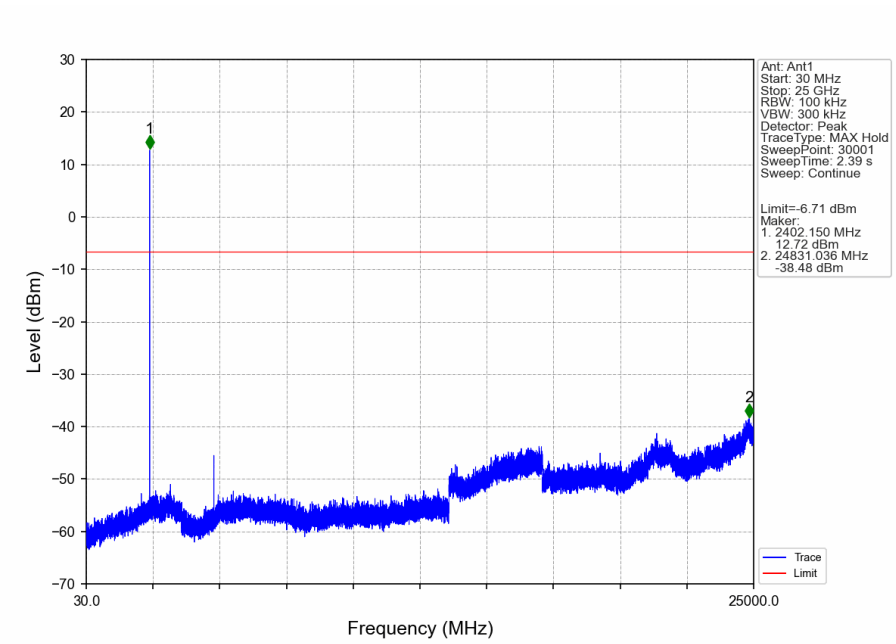

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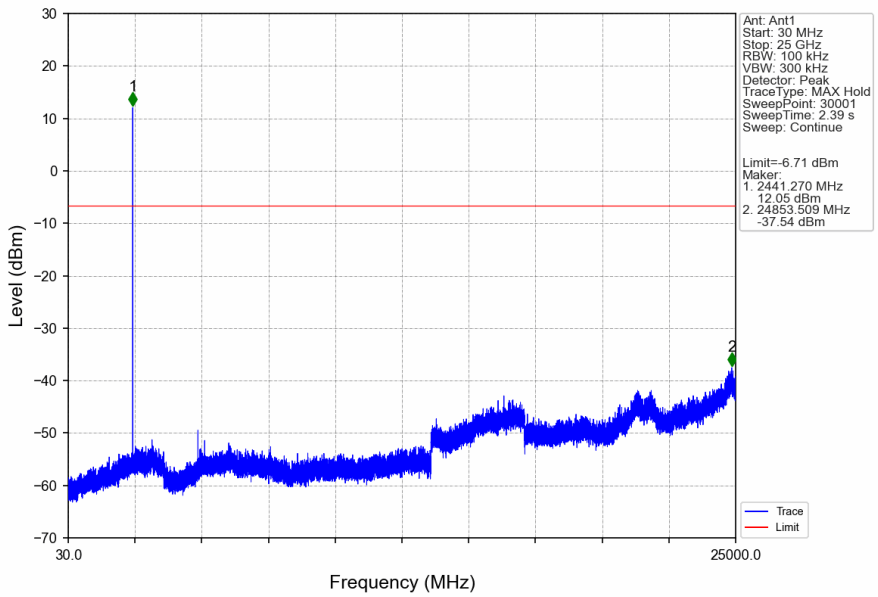
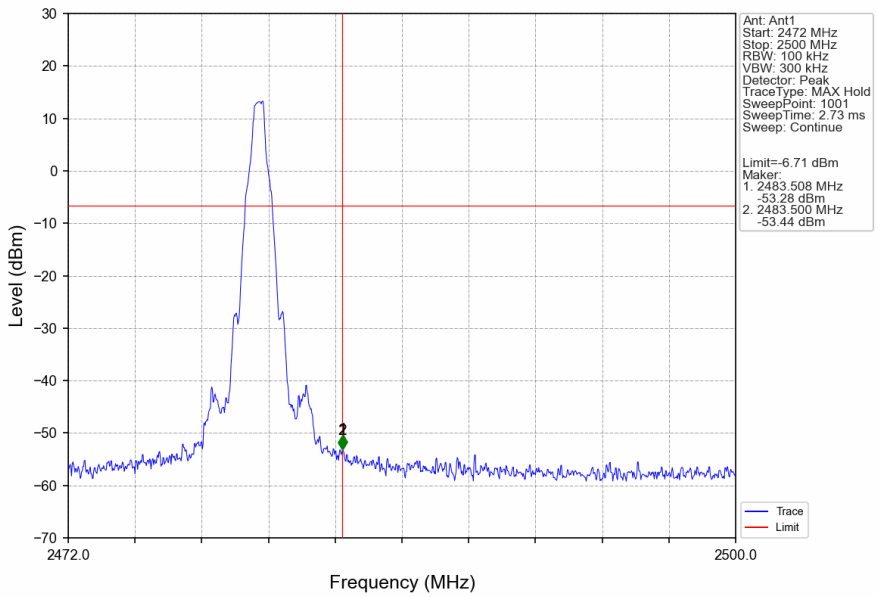
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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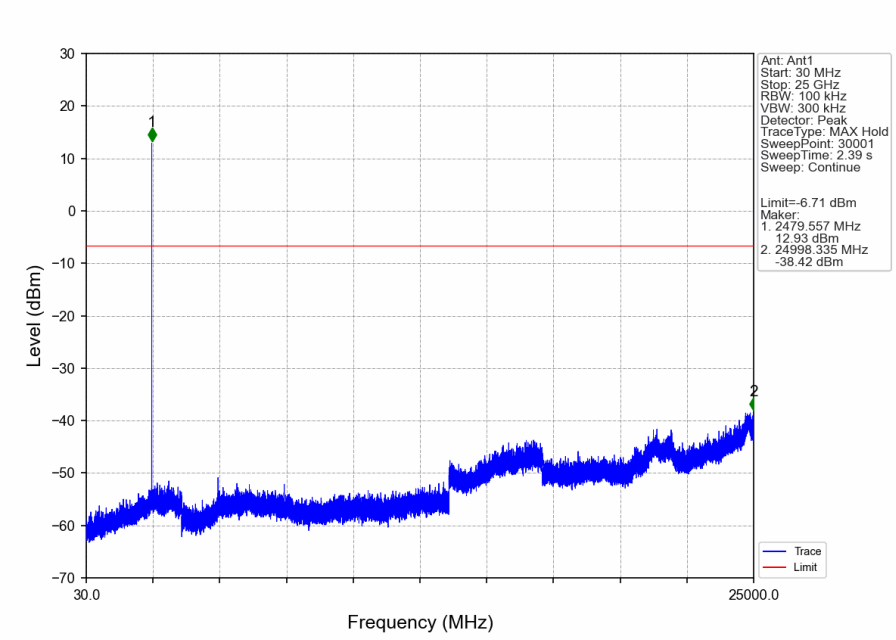
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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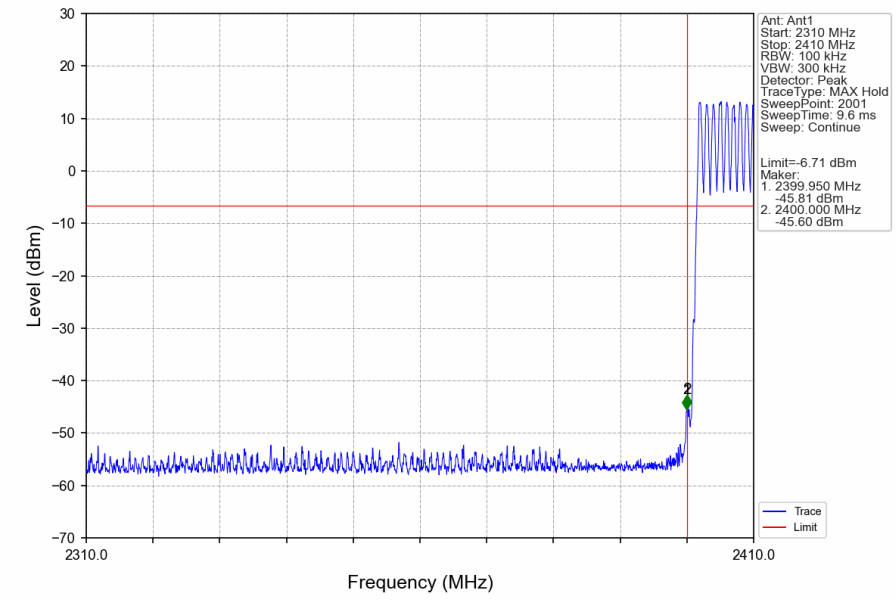

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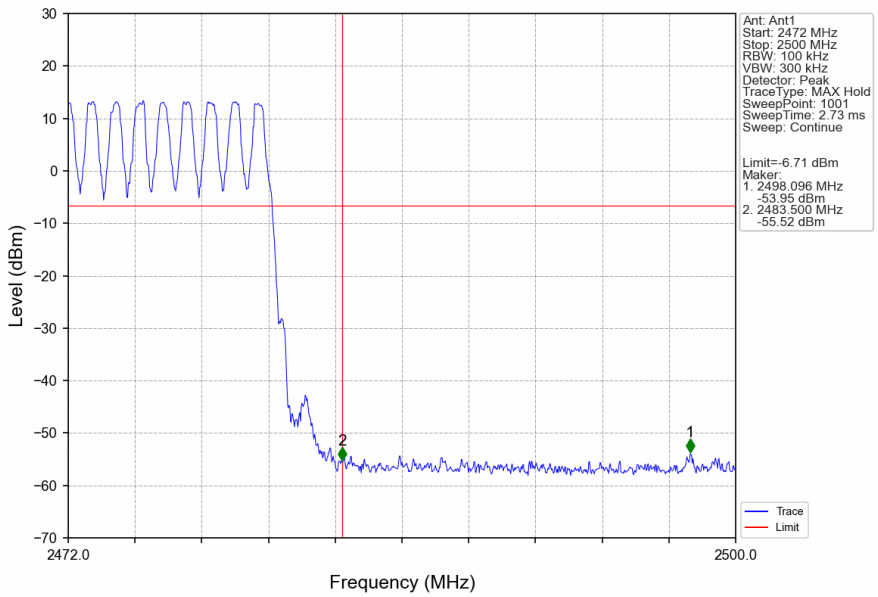
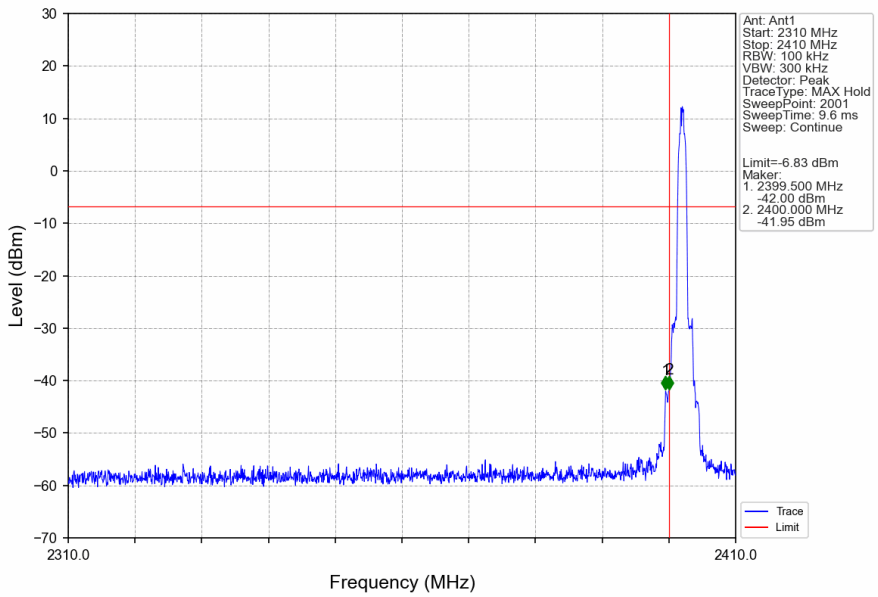
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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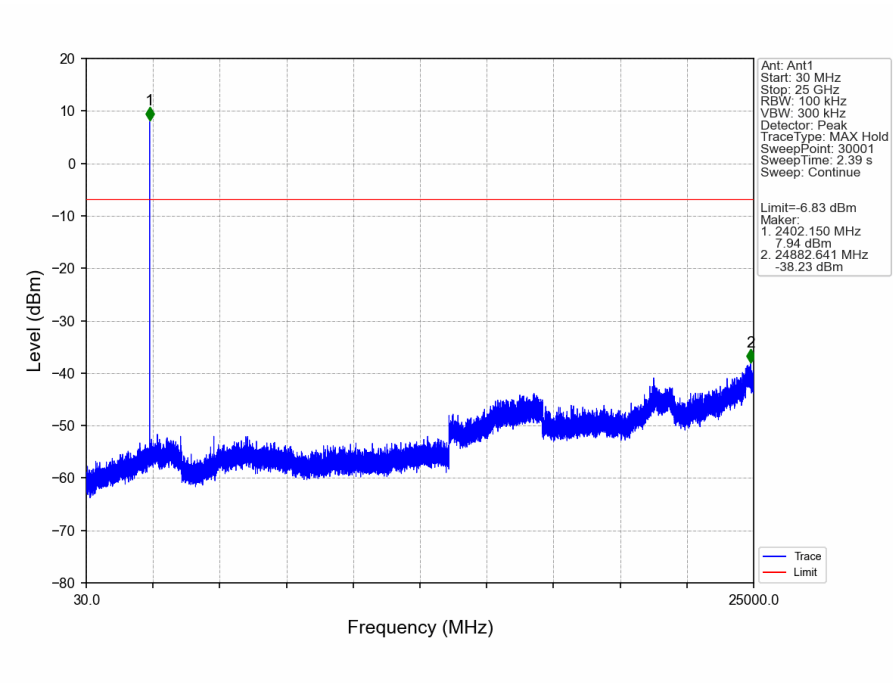
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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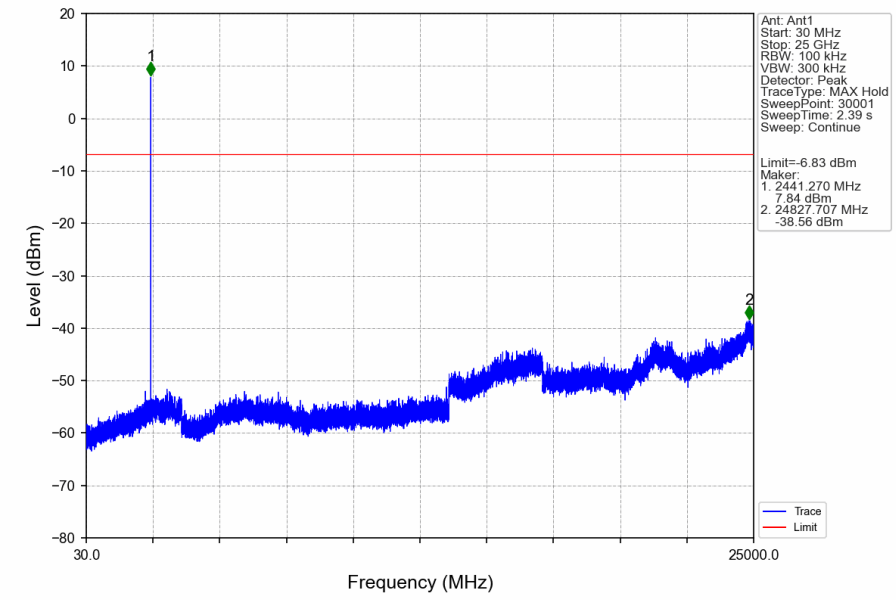

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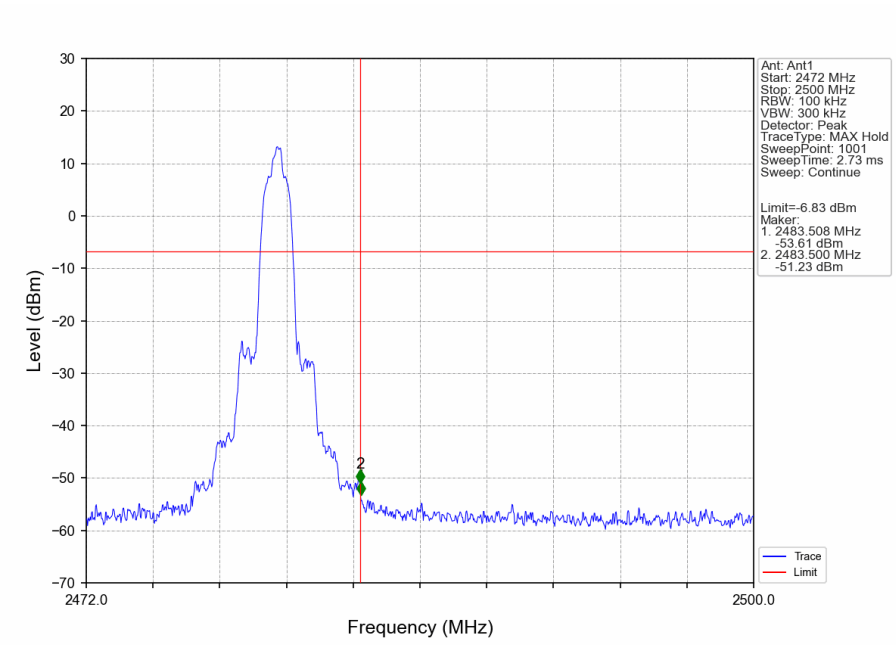
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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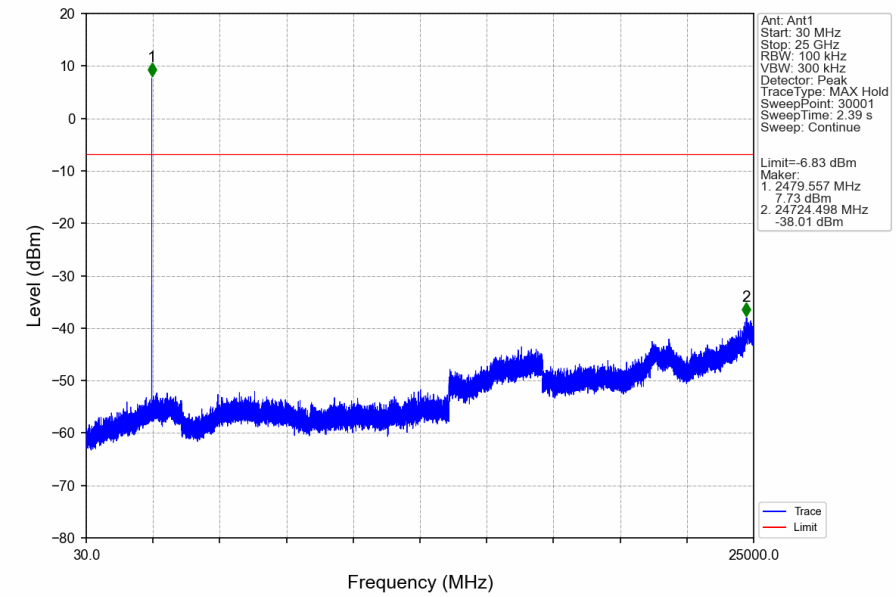

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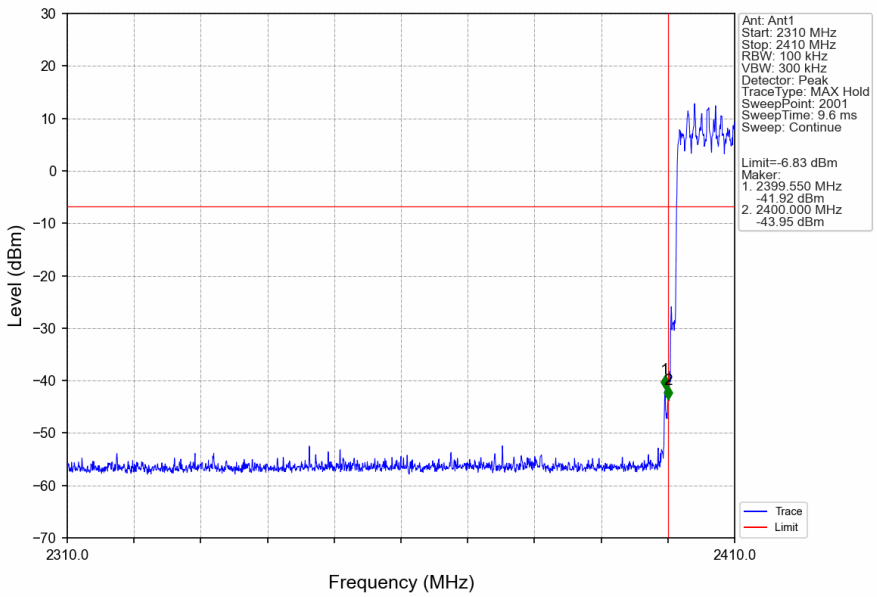
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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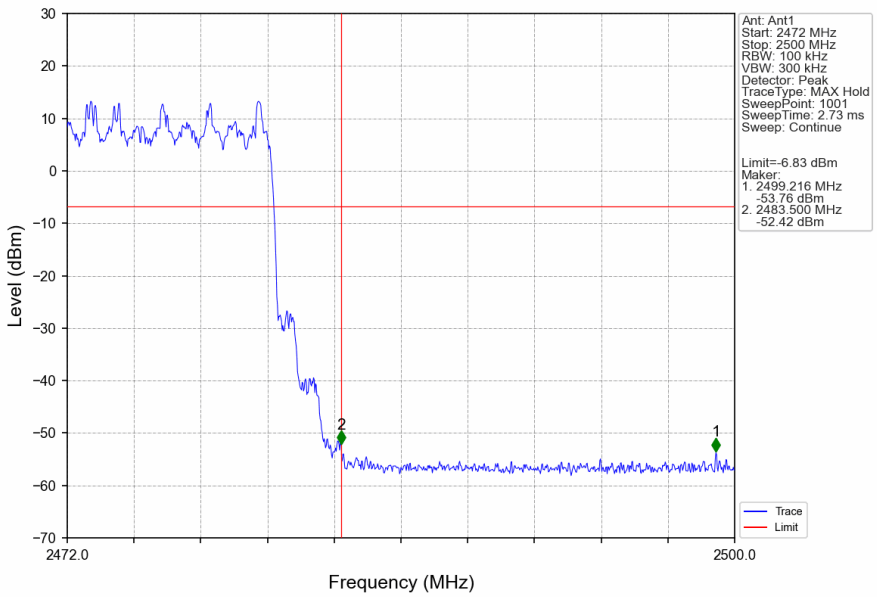

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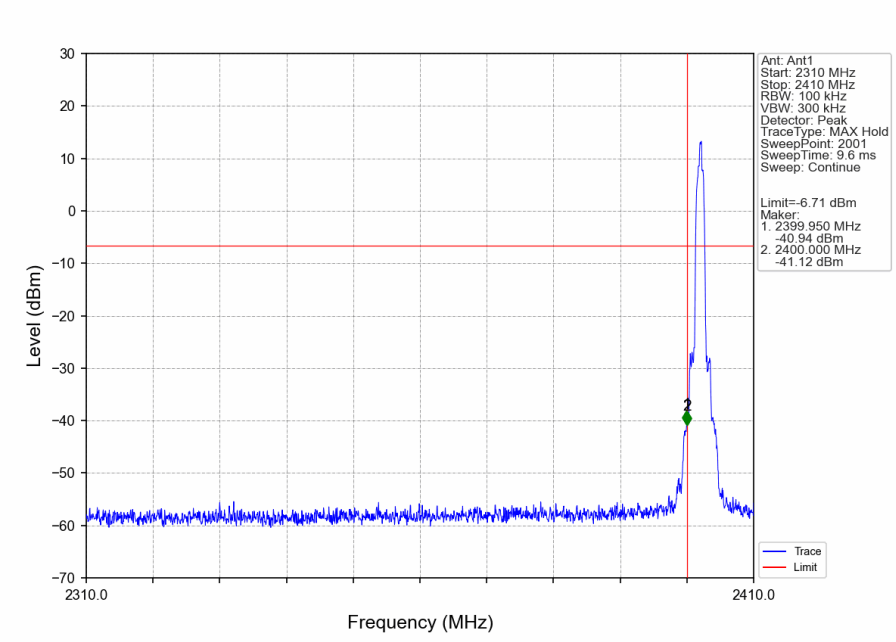
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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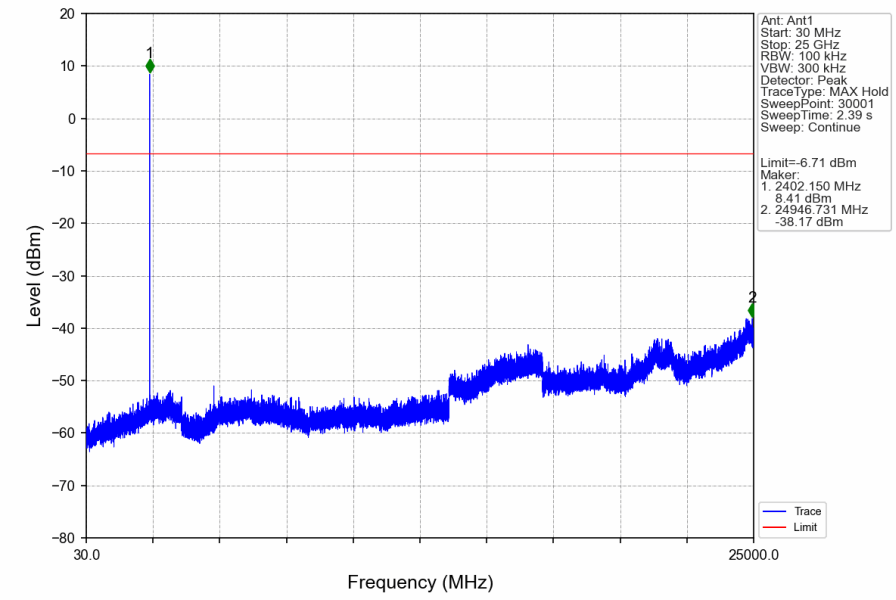

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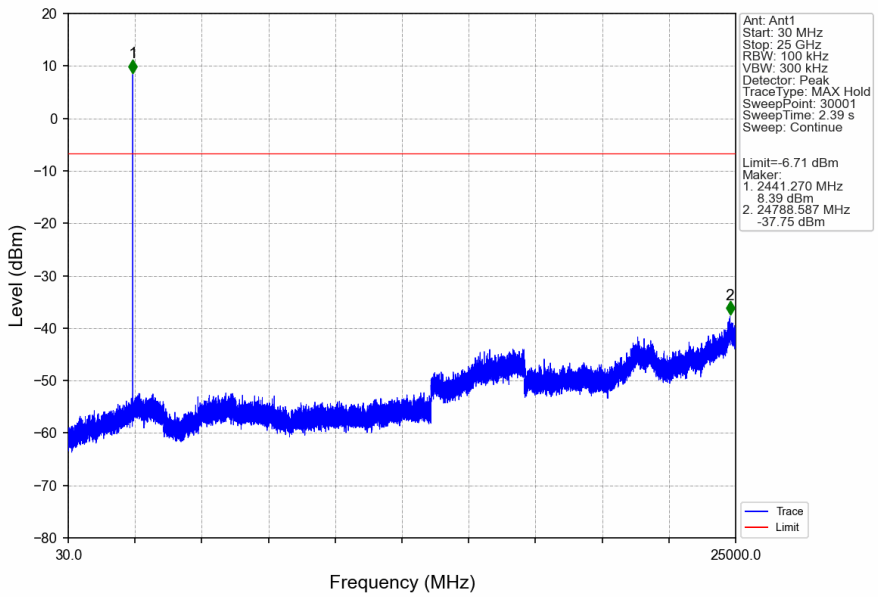
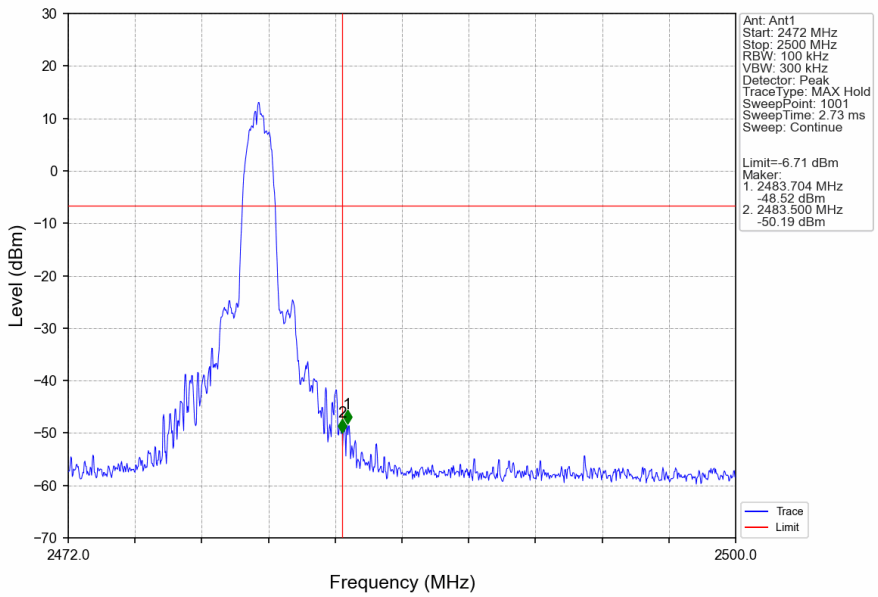
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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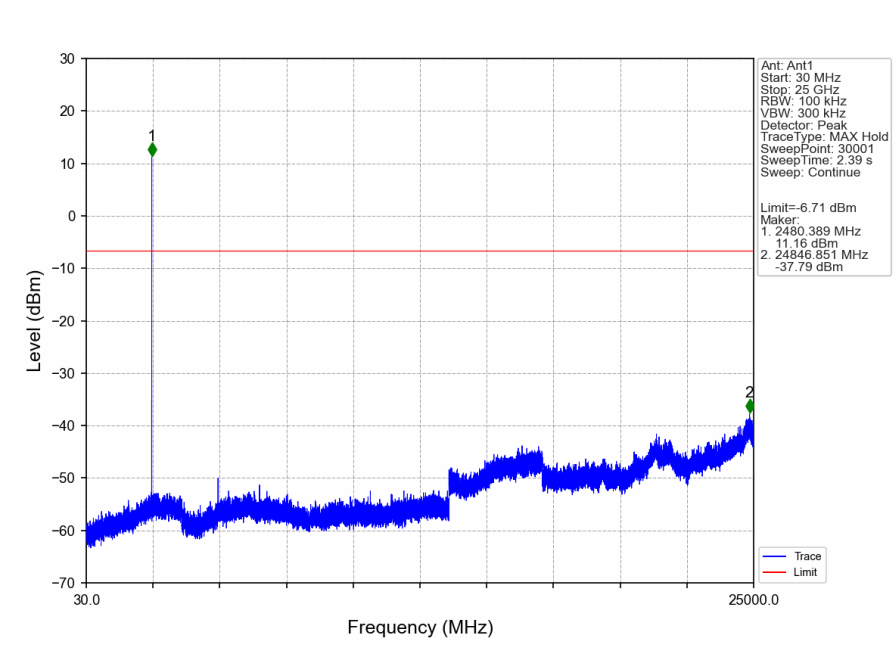
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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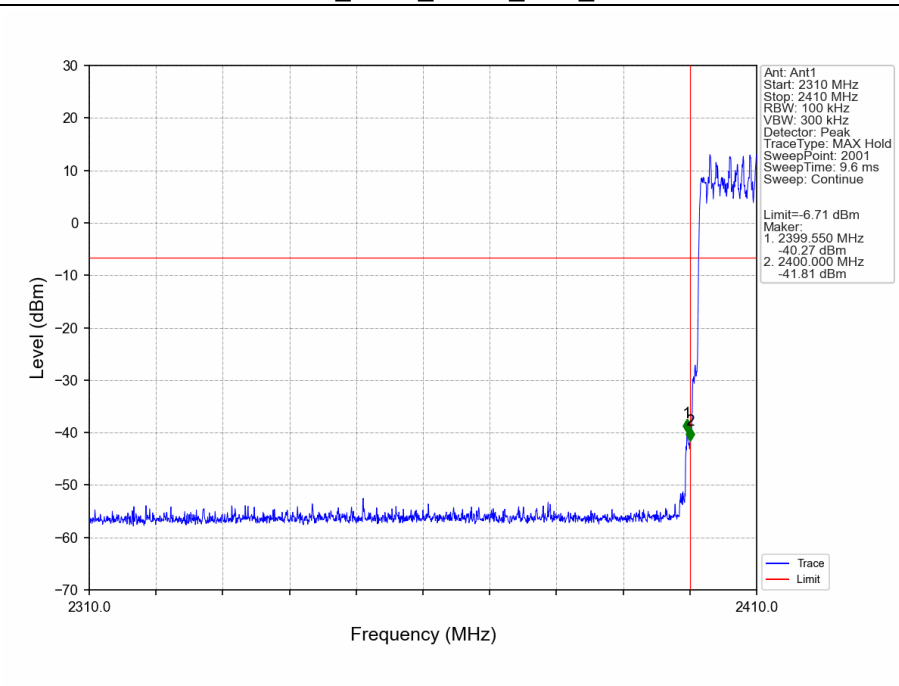

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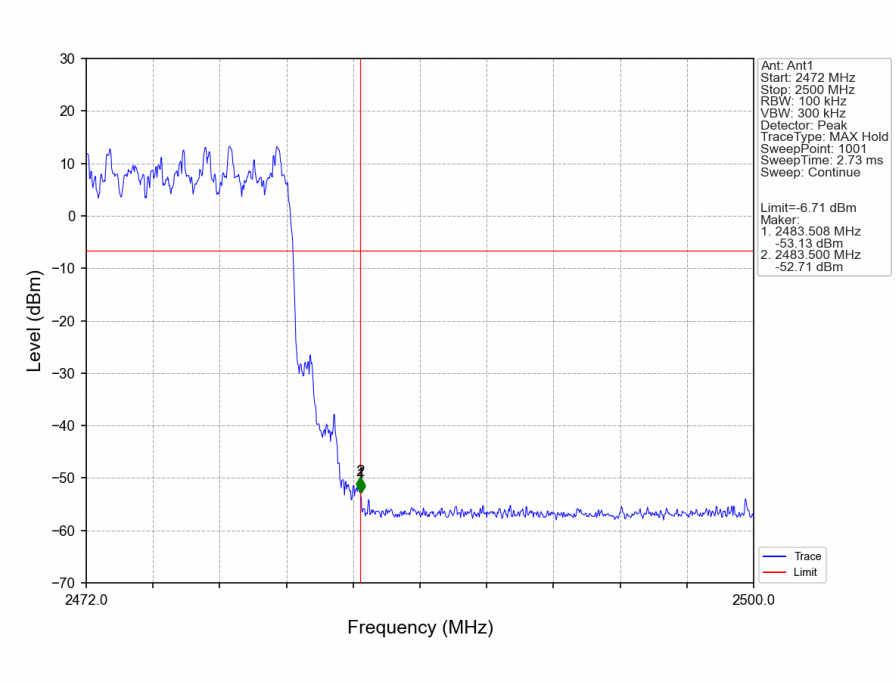

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