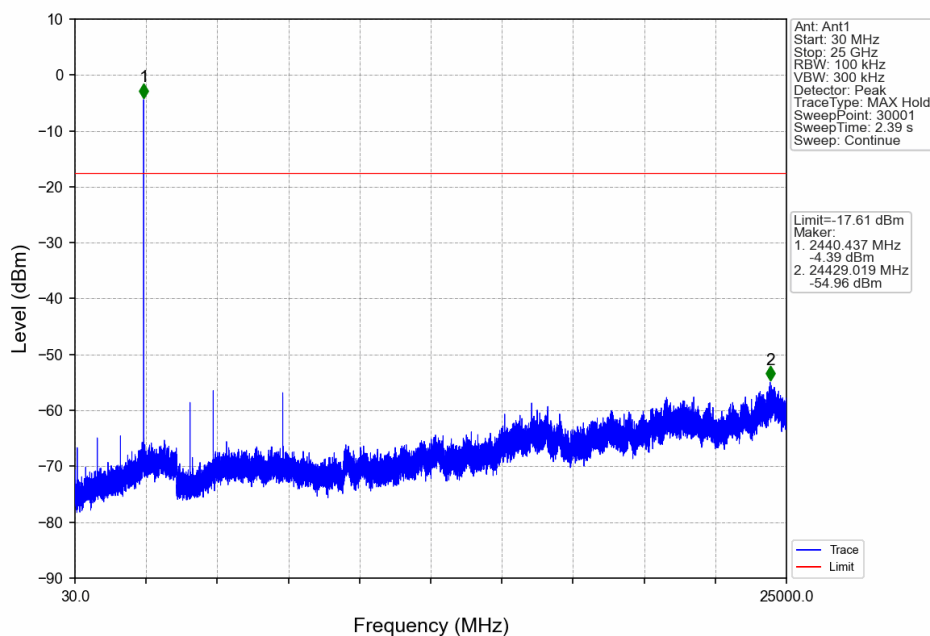
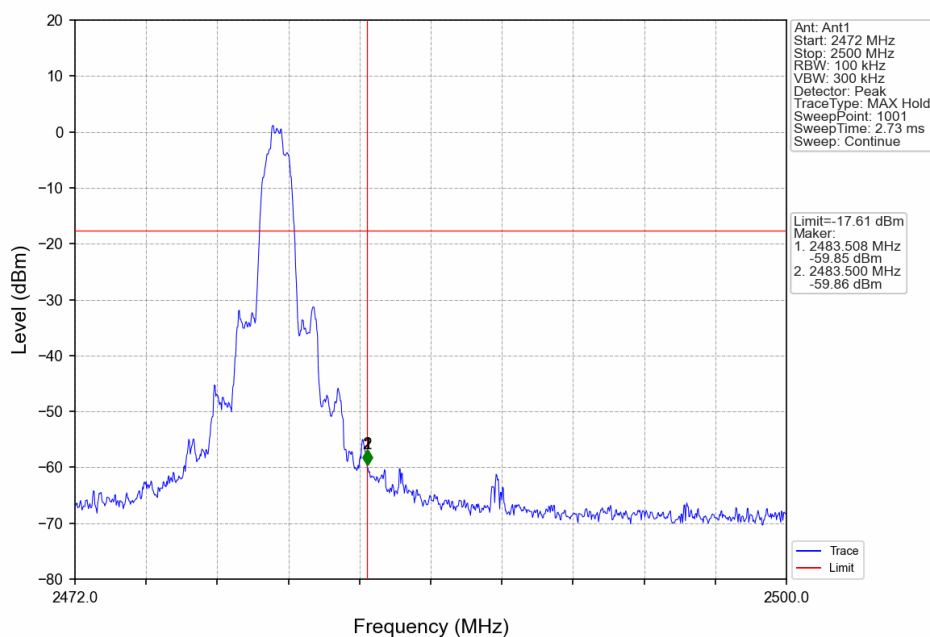


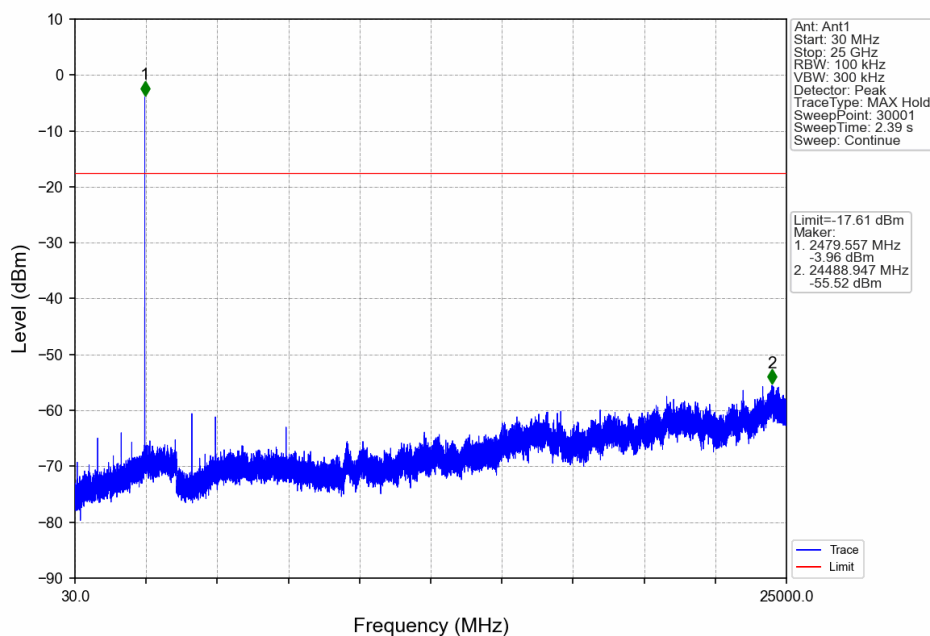
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



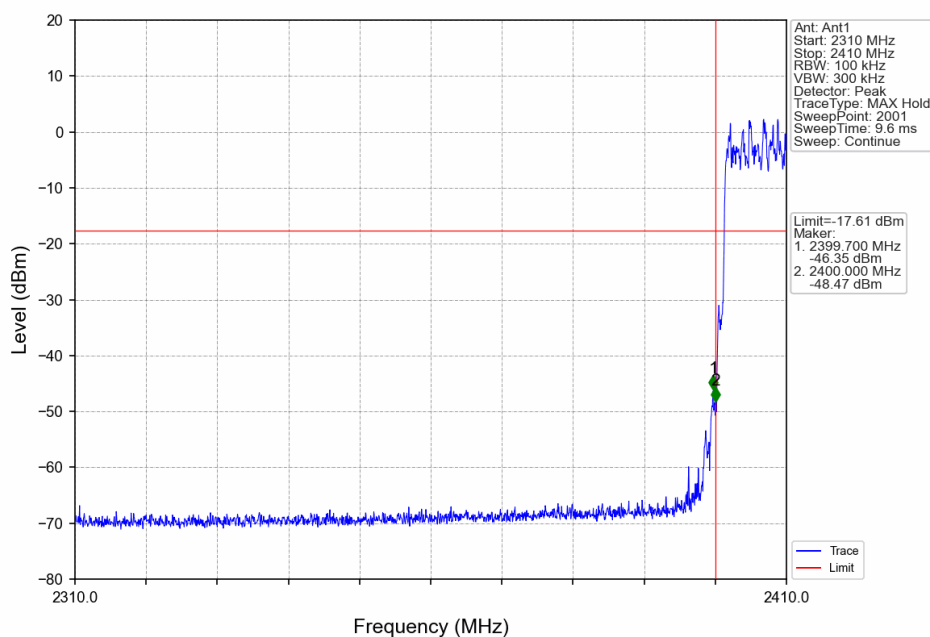
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

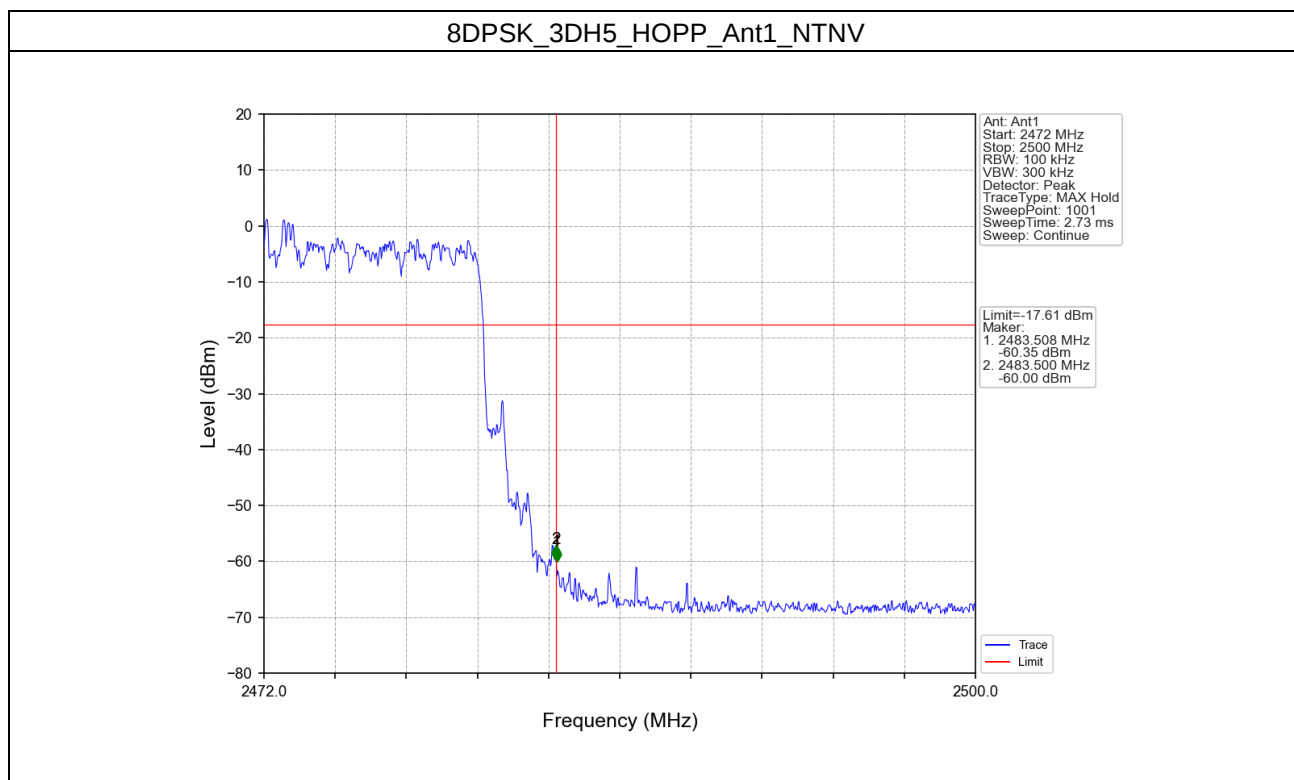


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





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For Center Stage Module2:

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	0.861	Pass
		2441	DH5	1	0.858	Pass
		2480	DH5	1	0.874	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.172	Pass
		2441	2DH5	1	1.173	Pass
		2480	2DH5	1	1.181	Pass
8DPSK	SISO	2402	3DH5	1	1.165	Pass
		2441	3DH5	1	1.169	Pass
		2480	3DH5	1	1.172	Pass



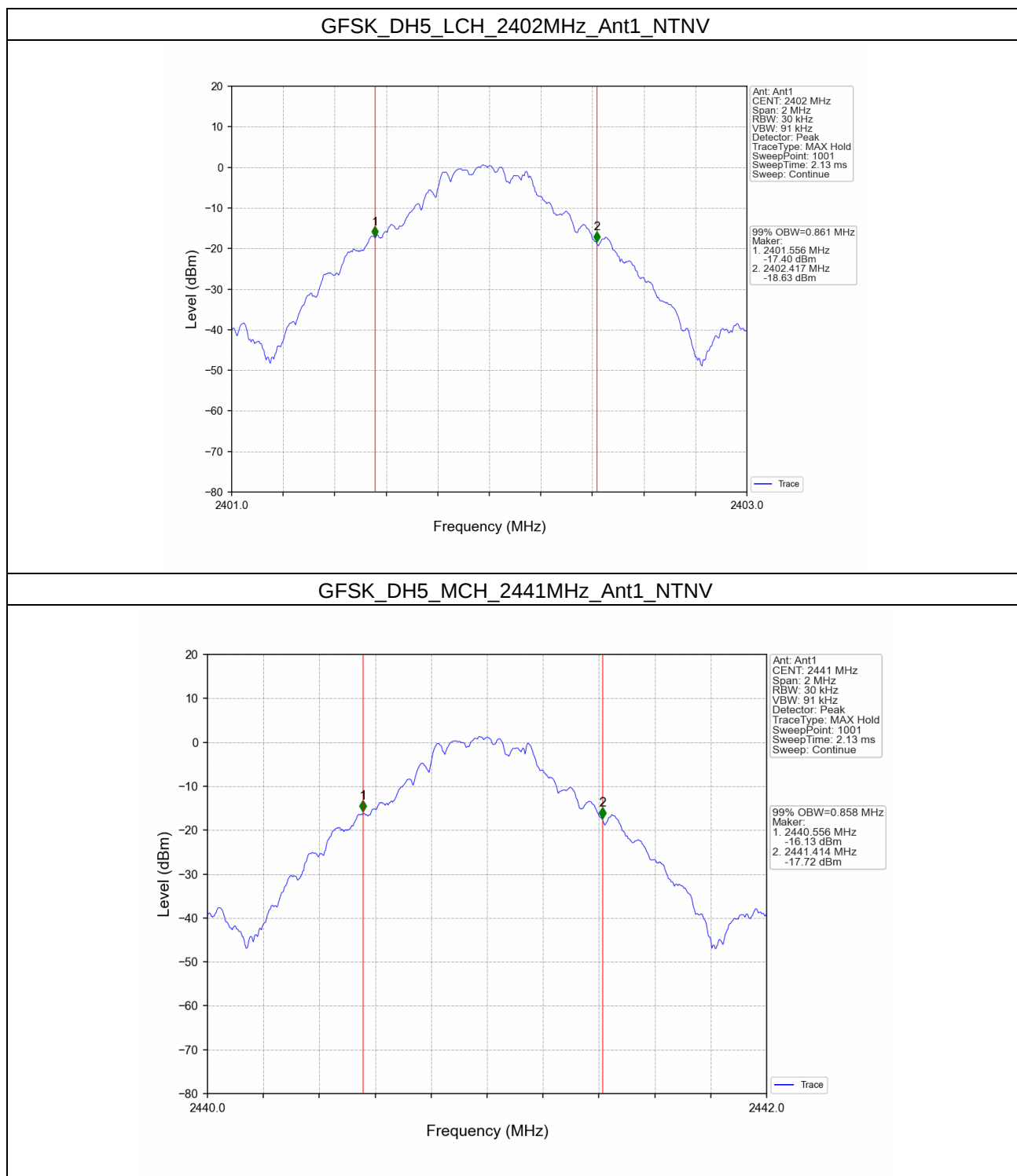
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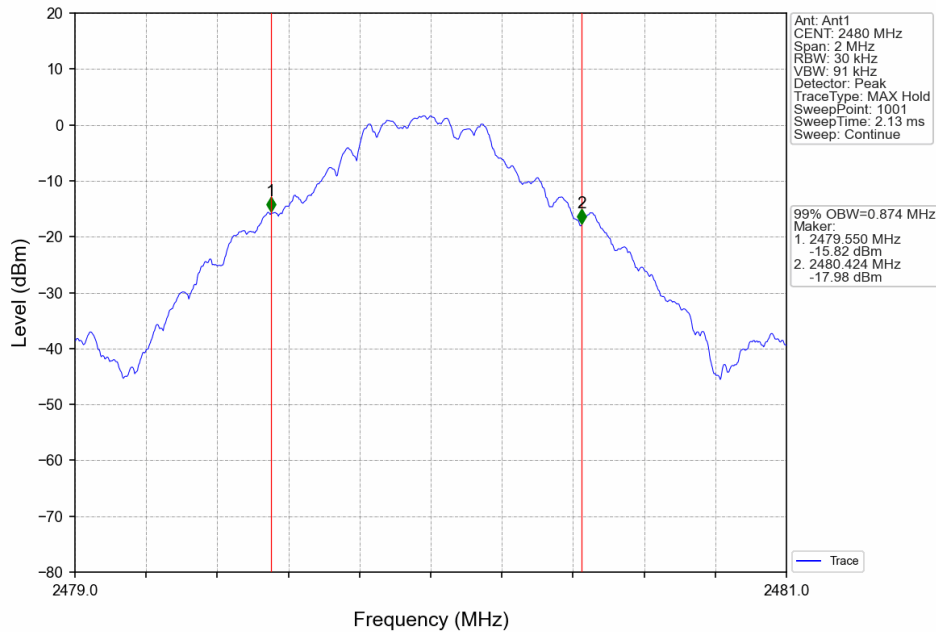
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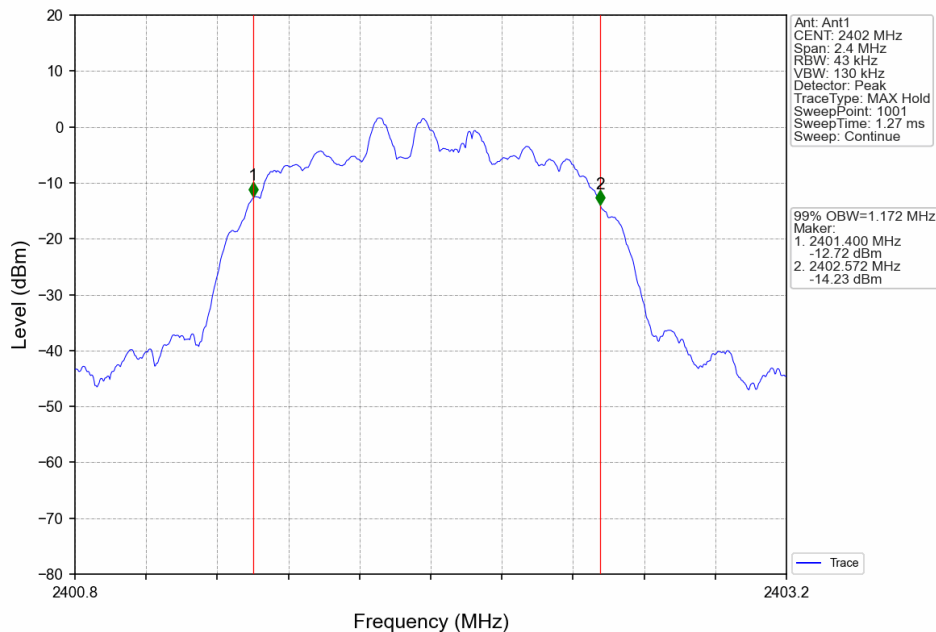
1.1.2 Test Graph



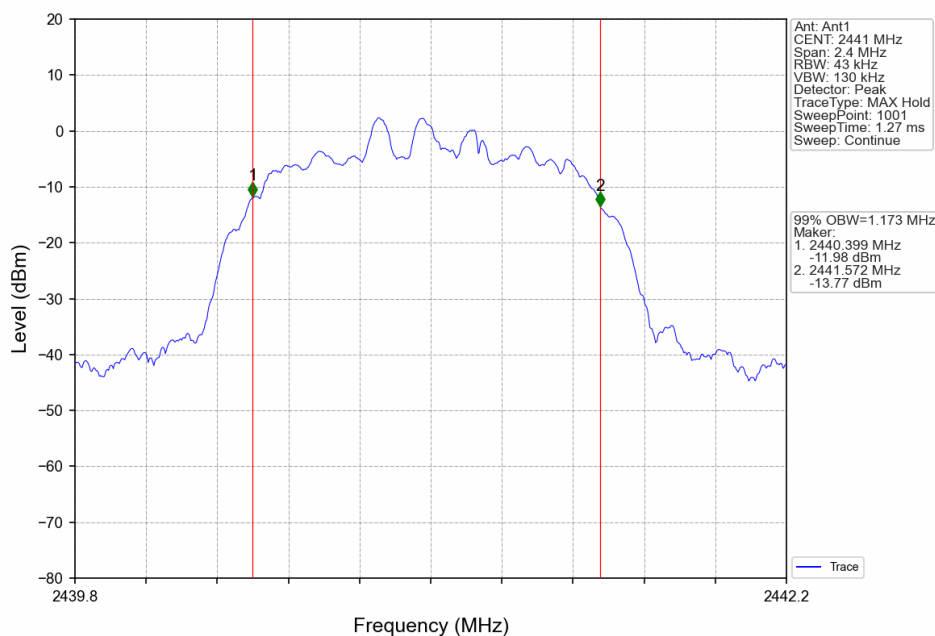
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



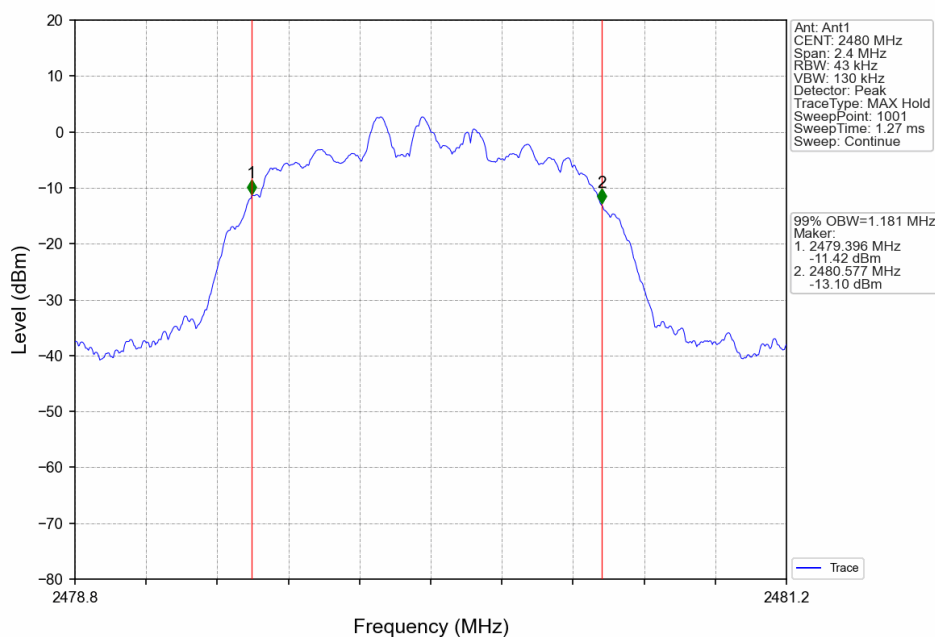
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



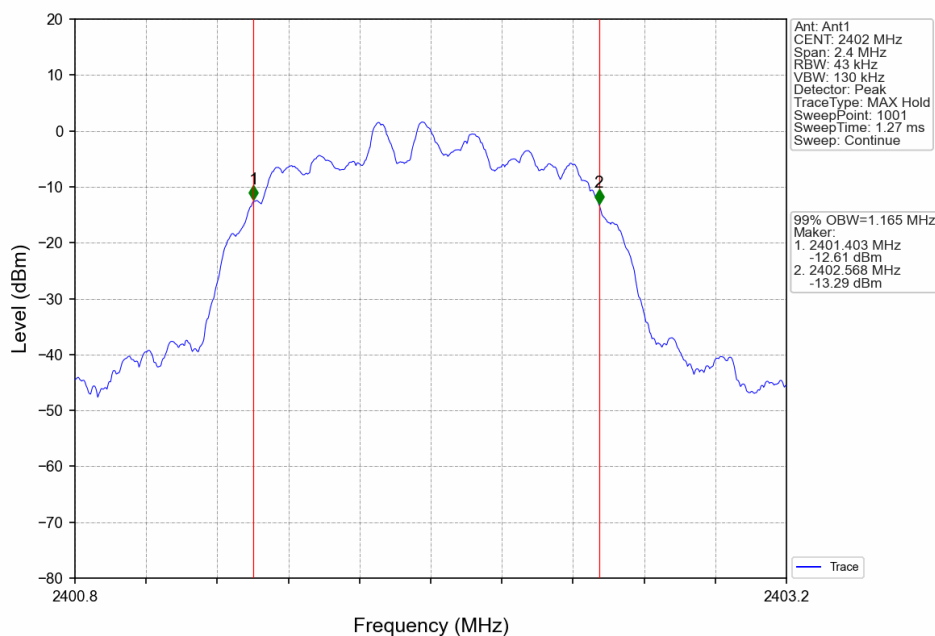
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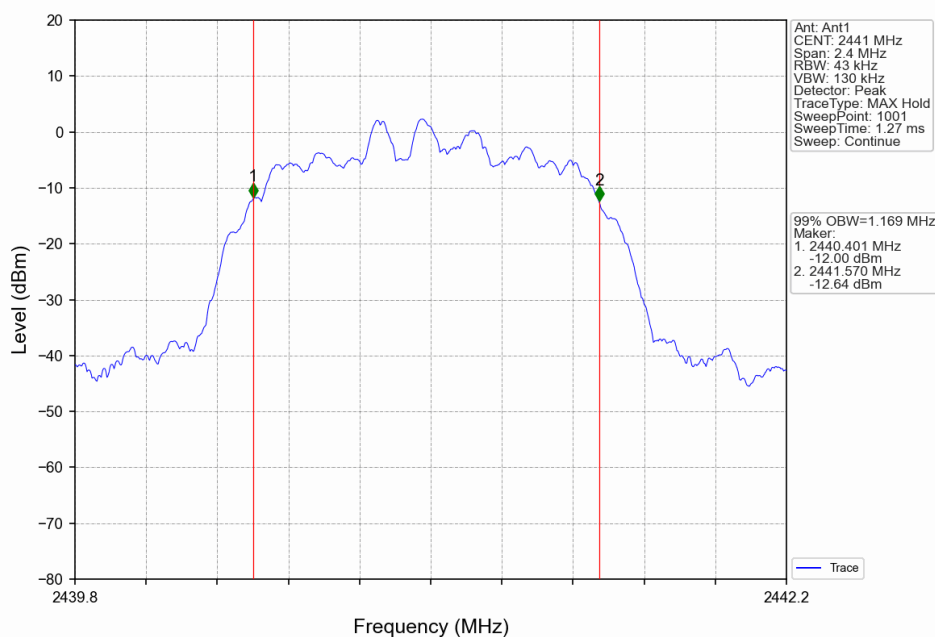
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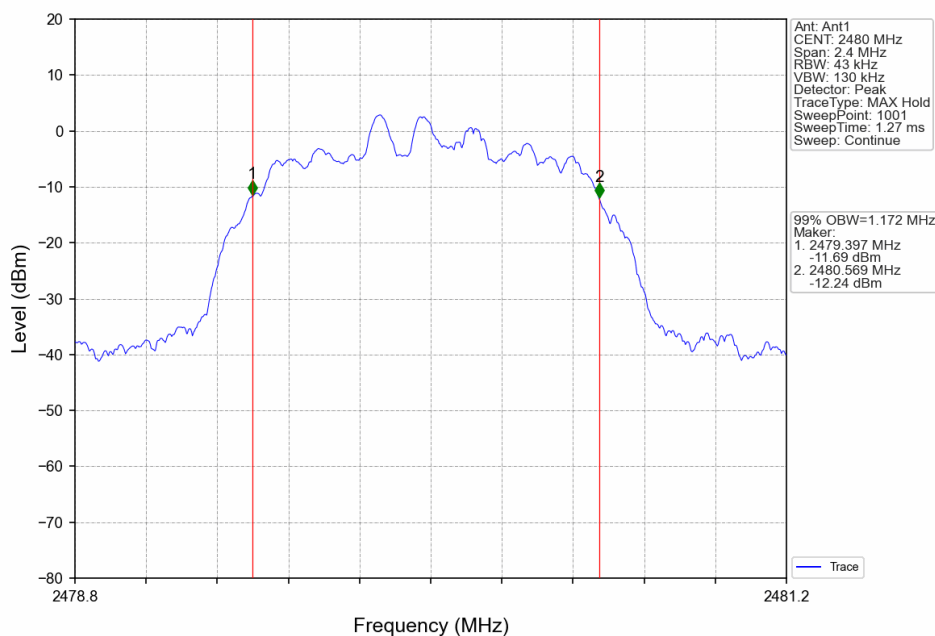
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.959	Pass
		2441	DH5	1	0.956	Pass
		2480	DH5	1	0.961	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.296	Pass
		2441	2DH5	1	1.298	Pass
		2480	2DH5	1	1.304	Pass
8DPSK	SISO	2402	3DH5	1	1.288	Pass
		2441	3DH5	1	1.291	Pass
		2480	3DH5	1	1.314	Pass



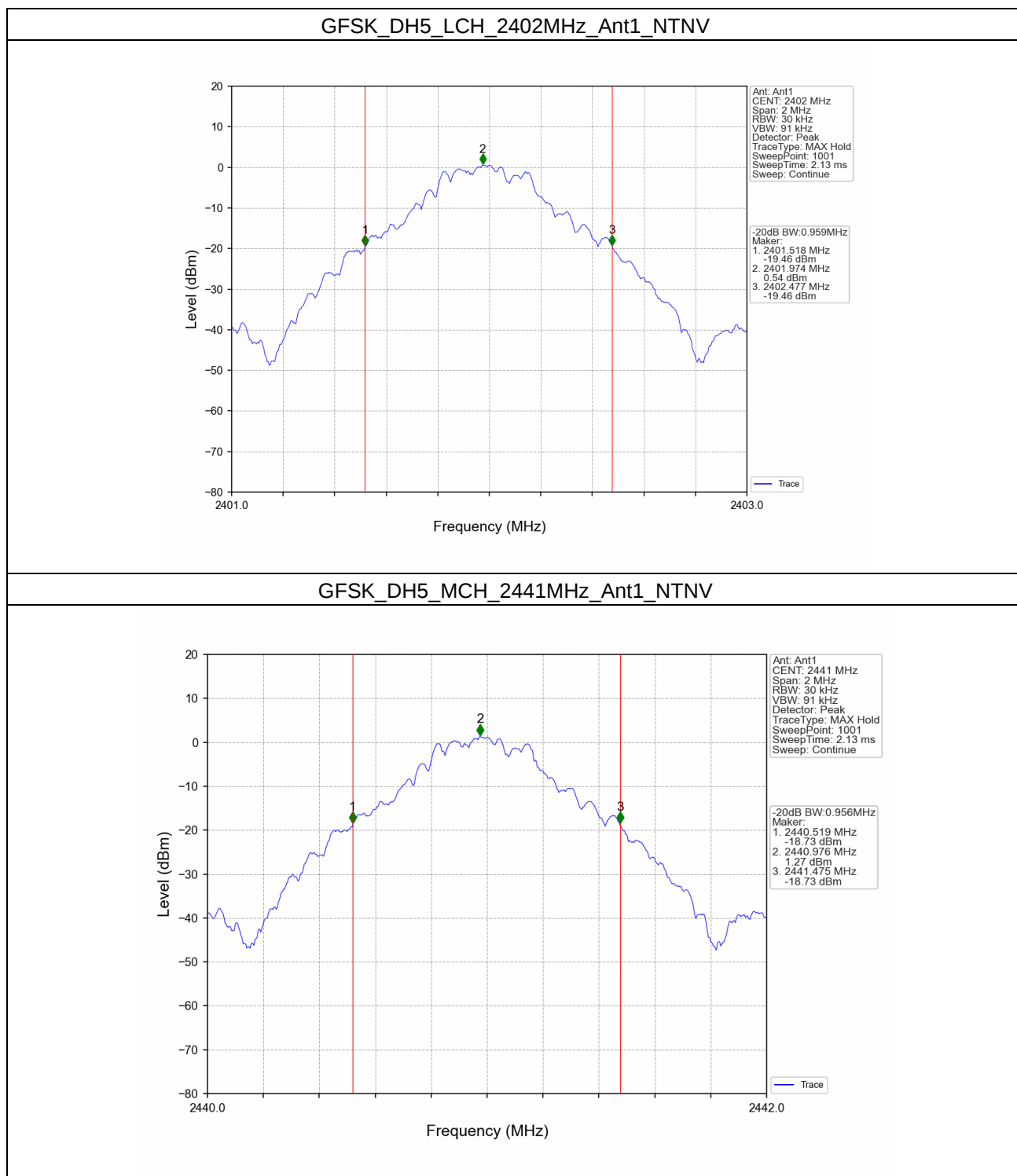
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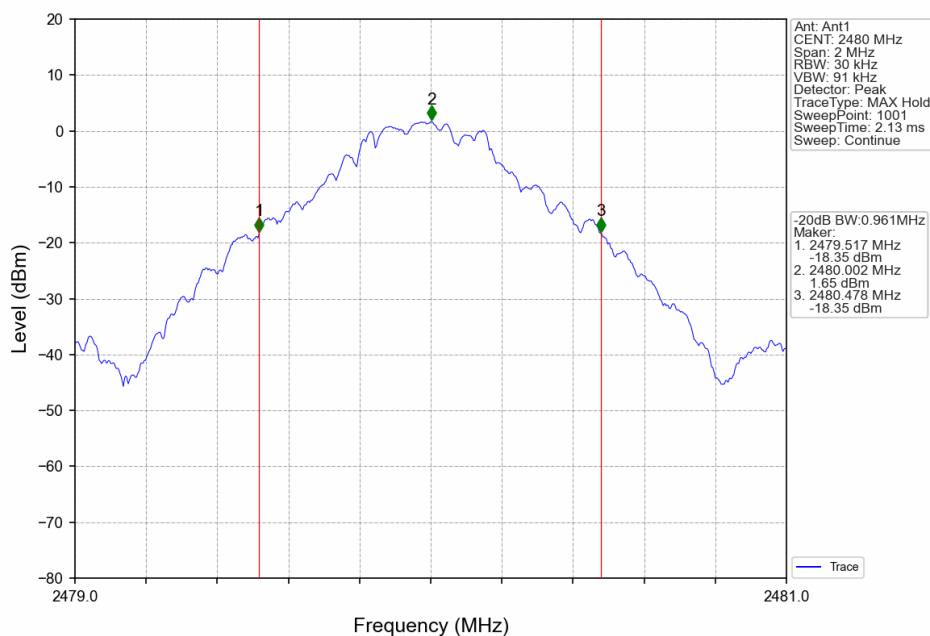
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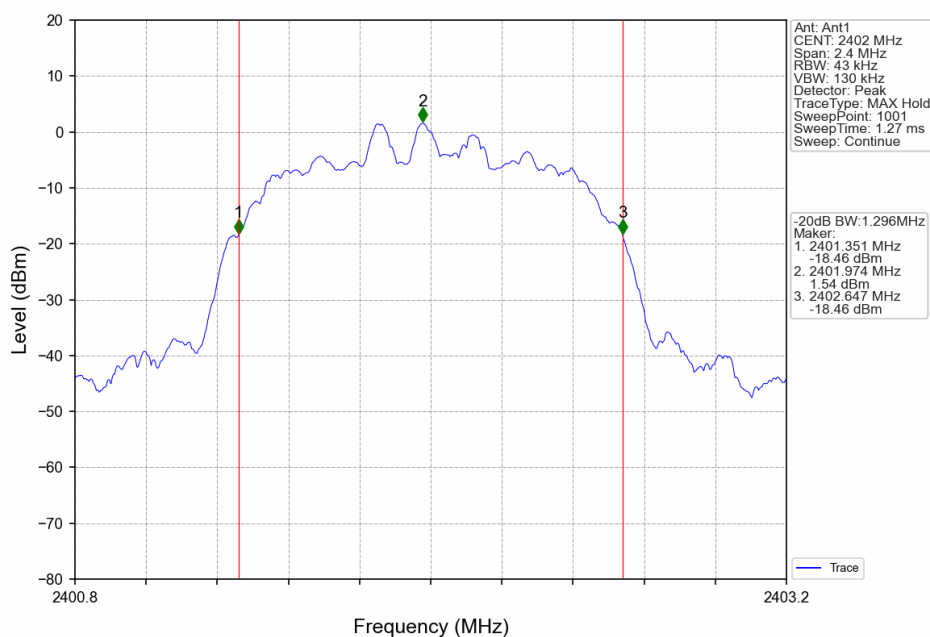
1.2.2 Test Graph



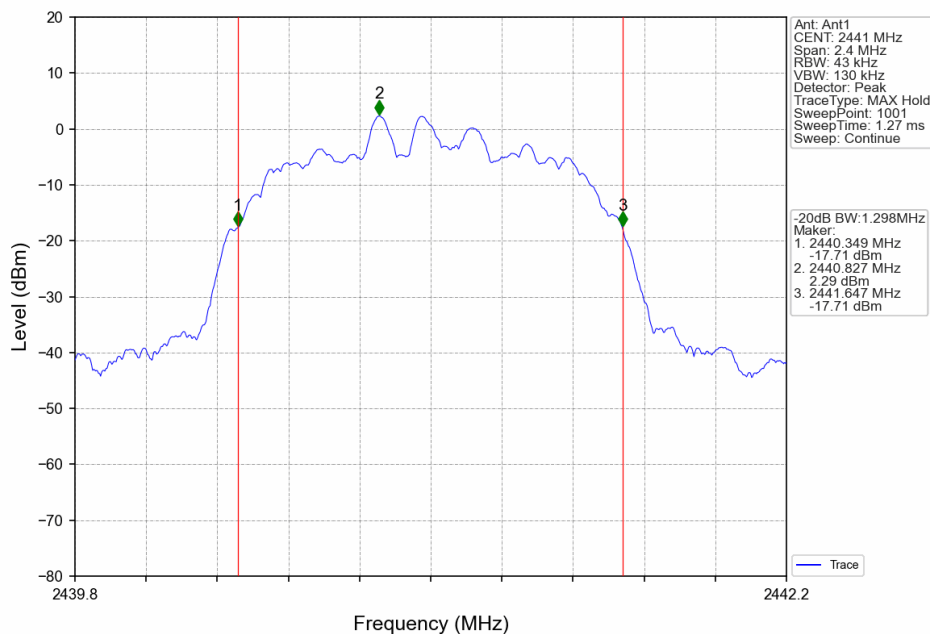
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



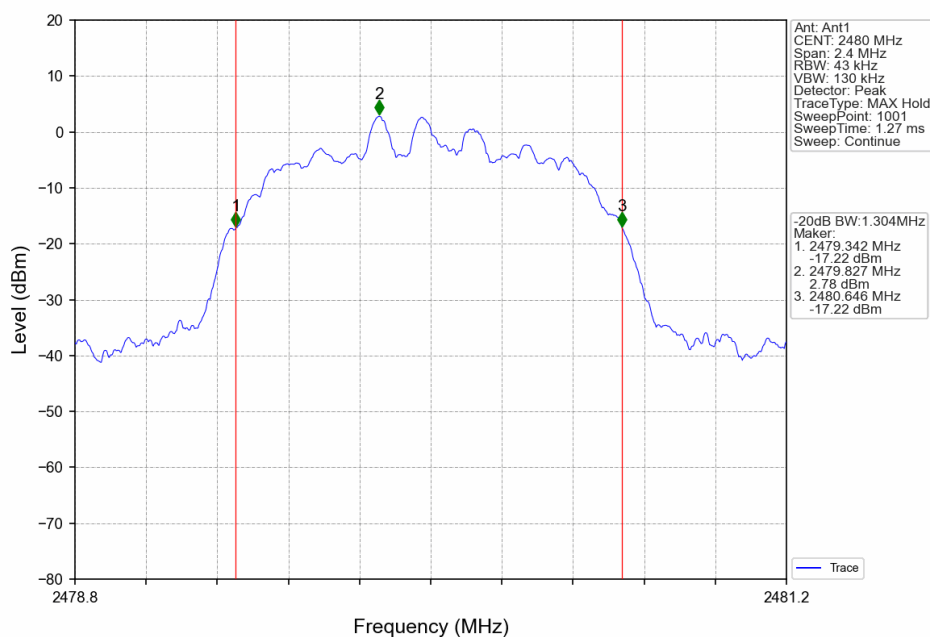
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



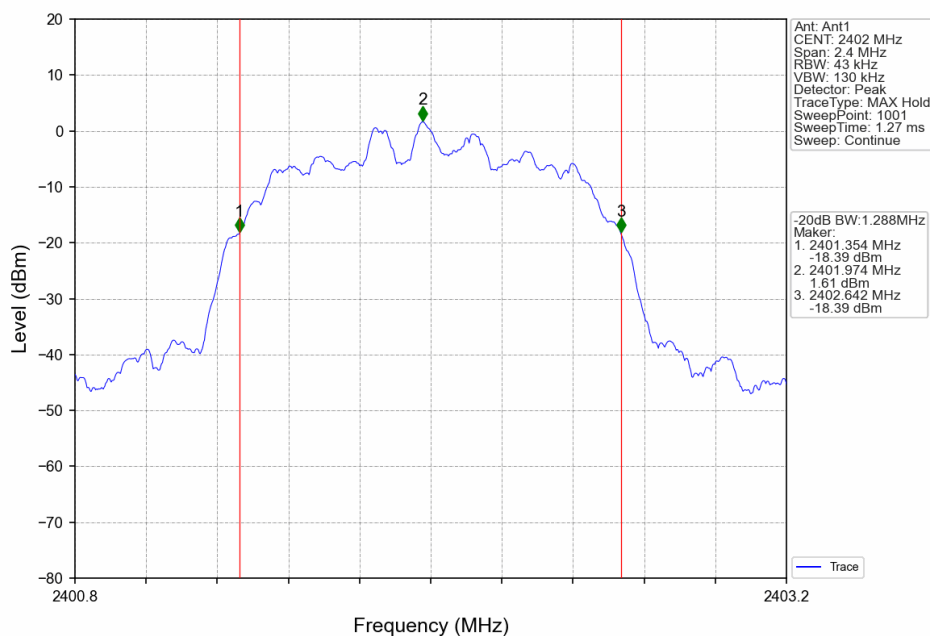
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



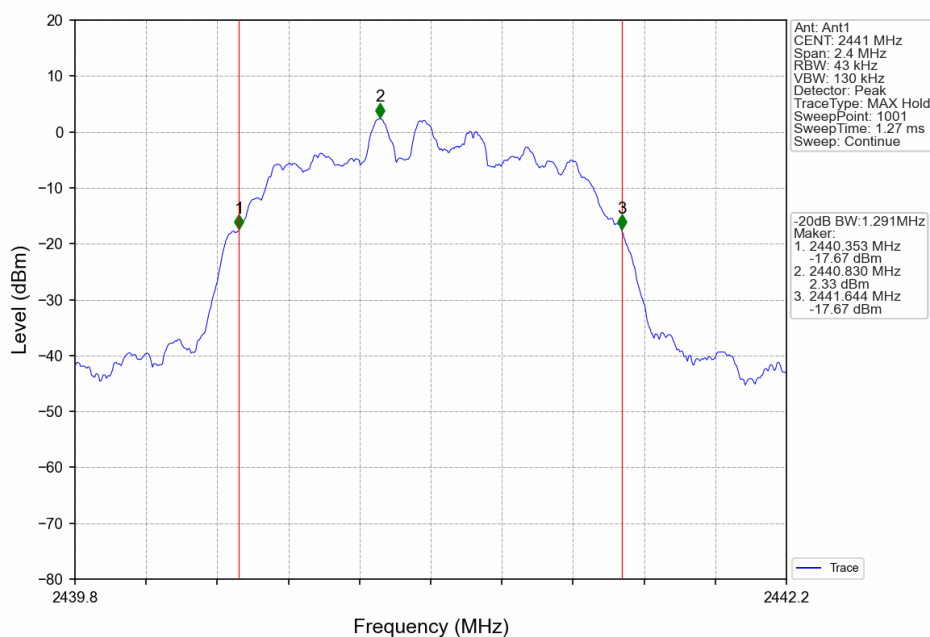
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



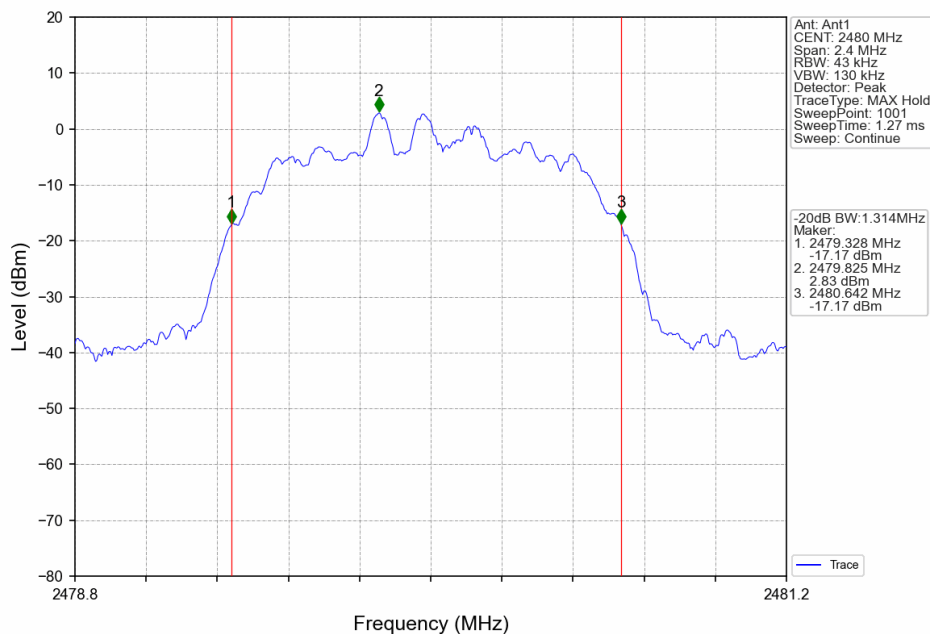
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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	2.78	<=30	Pass
		2441	DH5	3.47	<=30	Pass
		2480	DH5	3.90	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.61	<=20.97	Pass
		2441	2DH5	4.26	<=20.97	Pass
		2480	2DH5	4.60	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.55	<=20.97	Pass
		2441	3DH5	4.24	<=20.97	Pass
		2480	3DH5	4.60	<=20.97	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;



3. Carrier Frequency Separation

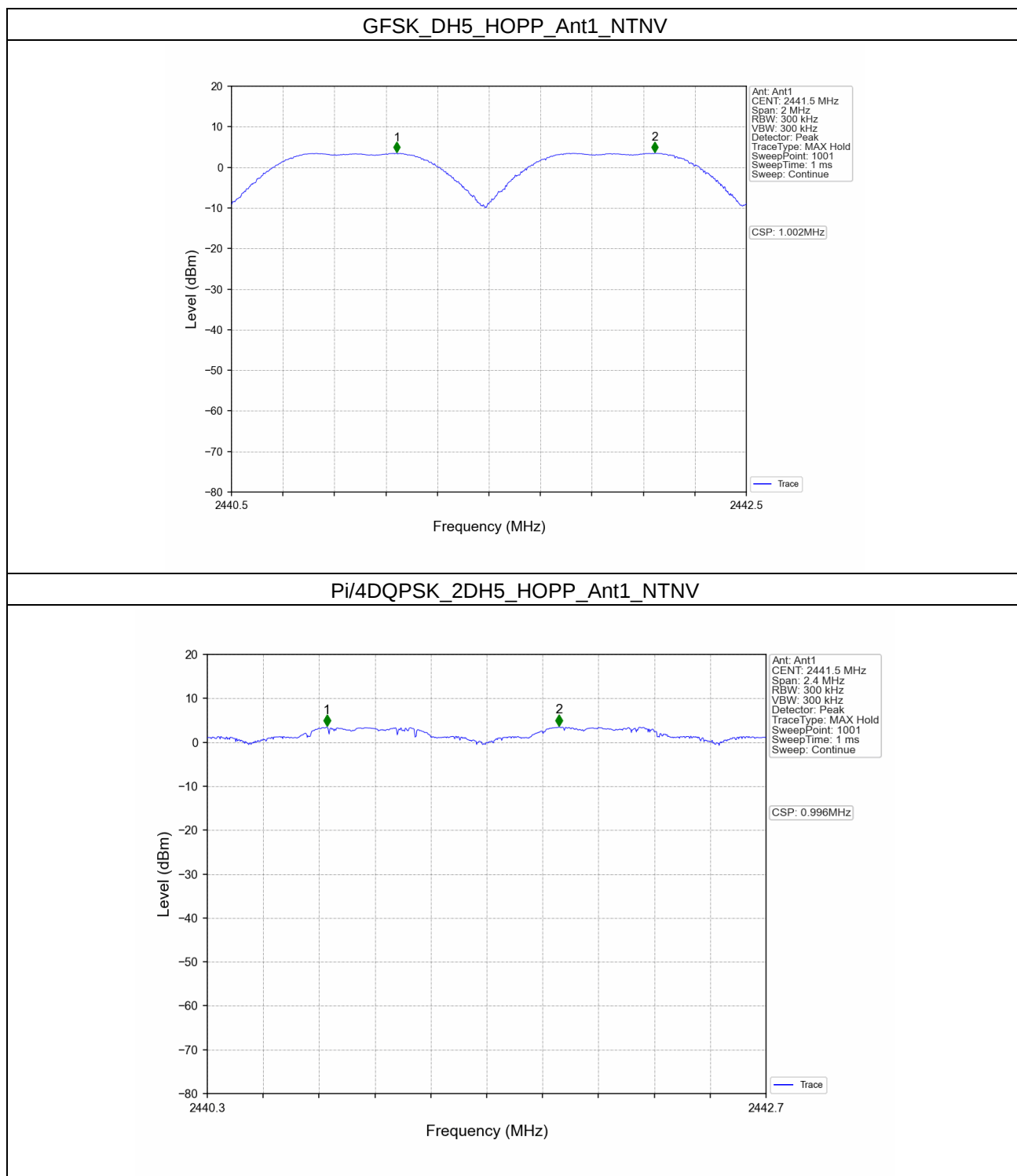
3.1 Ant1

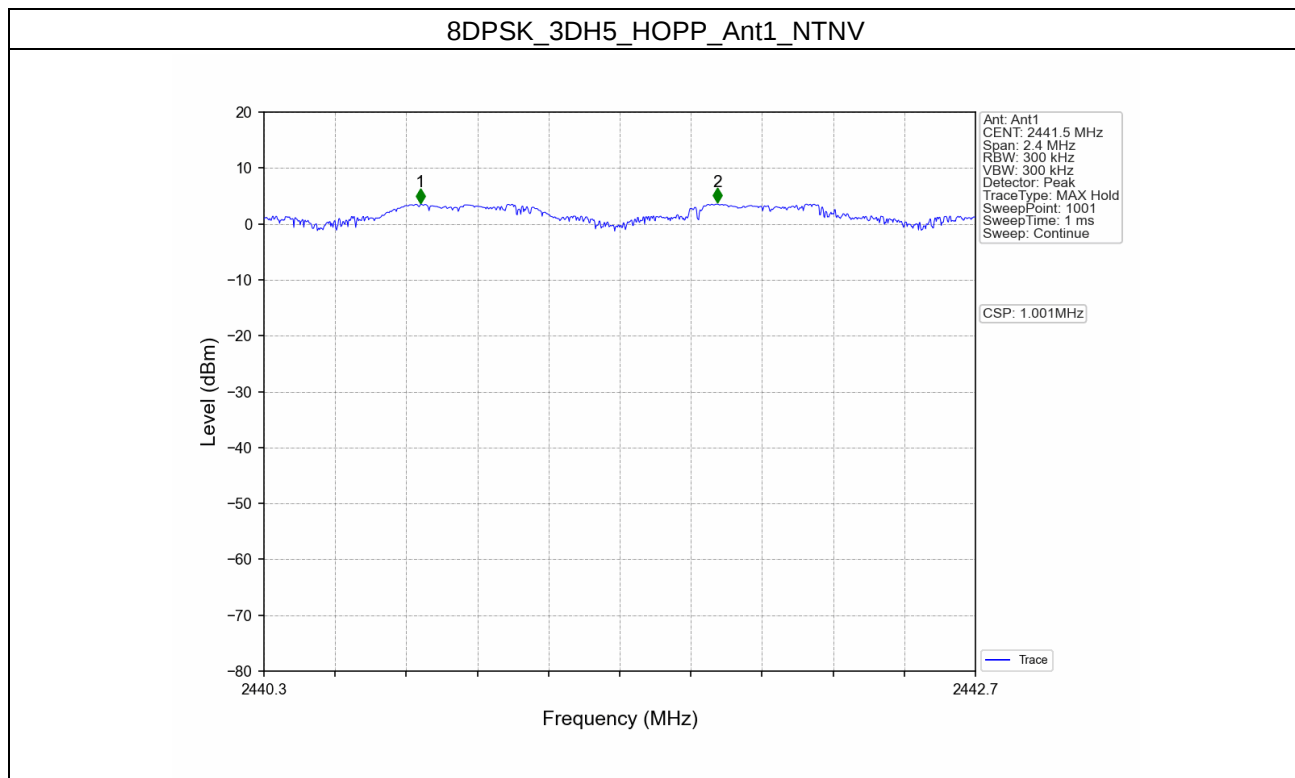
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	0.961	≥ 0.961	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.304	≥ 0.869	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.314	≥ 0.876	Pass



3.1.2 Test Graph





4. Number of Hopping Frequencies

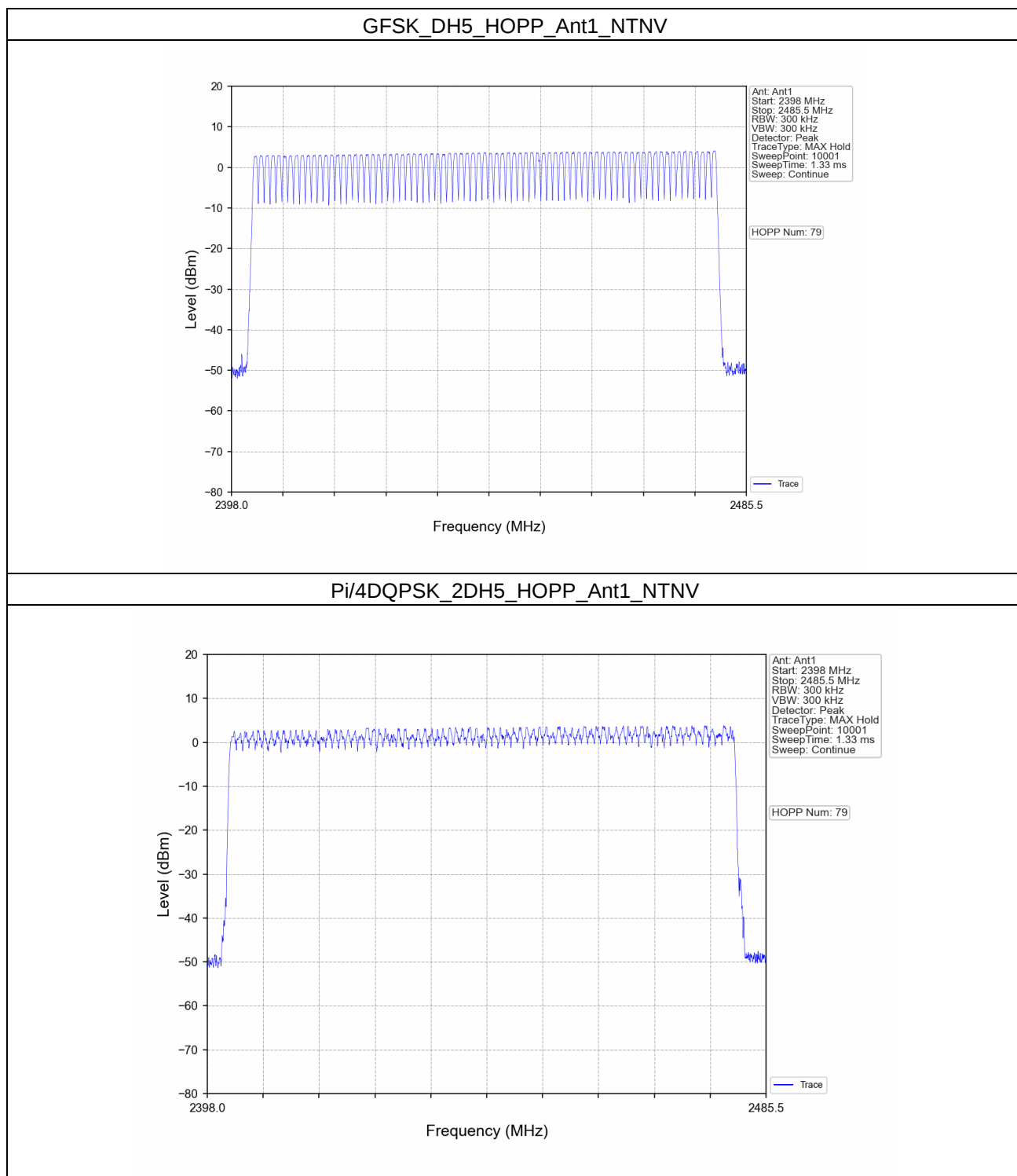
4.1 HoppNum

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



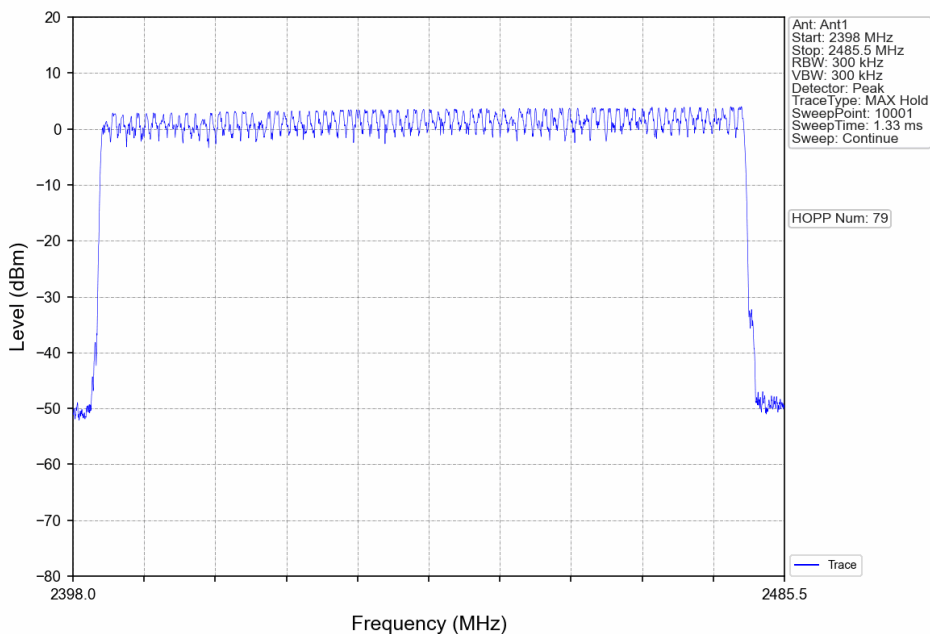
4.1.2 Test Graph



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8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

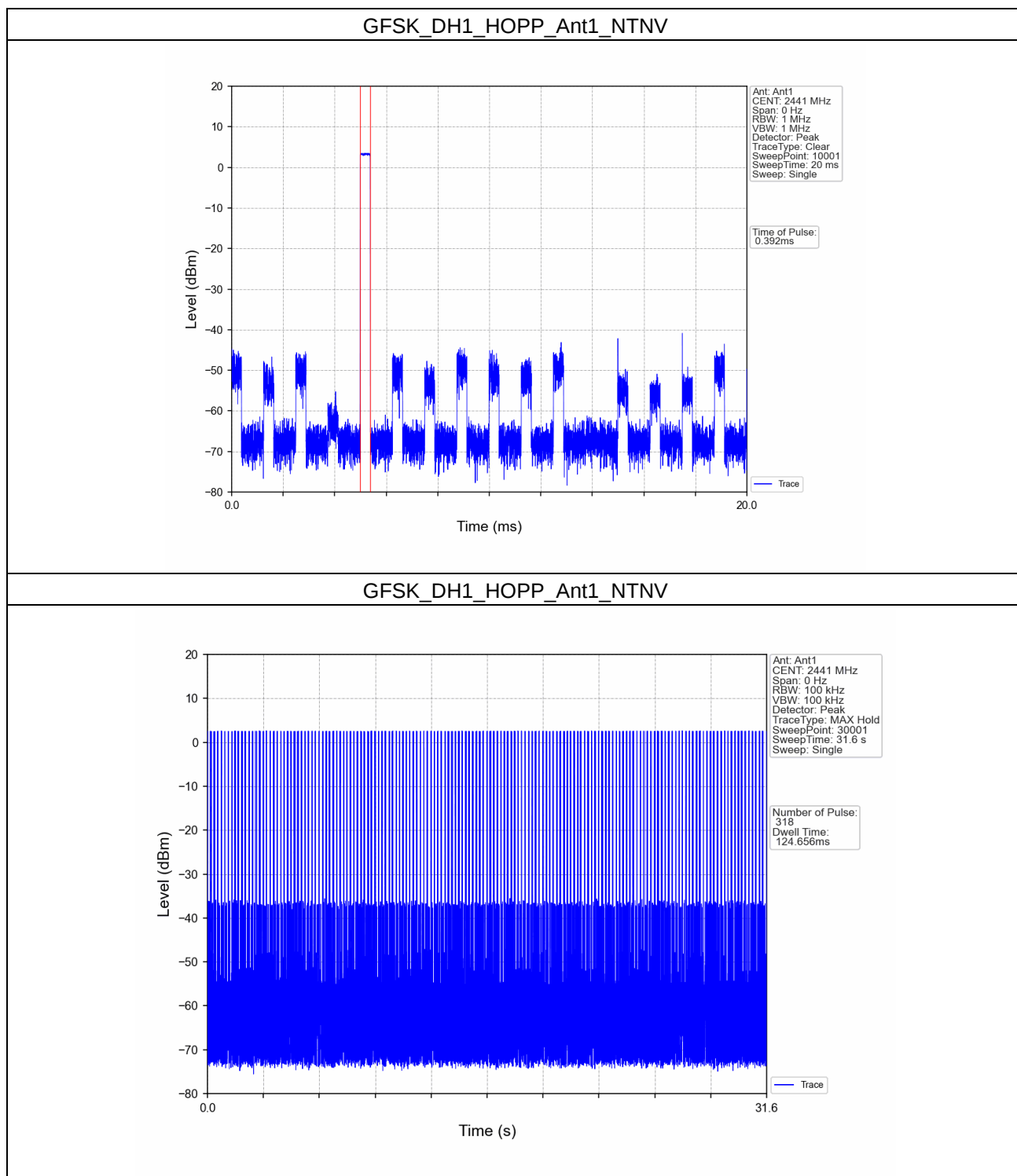
5.1 Ant1

5.1.1 Test Result

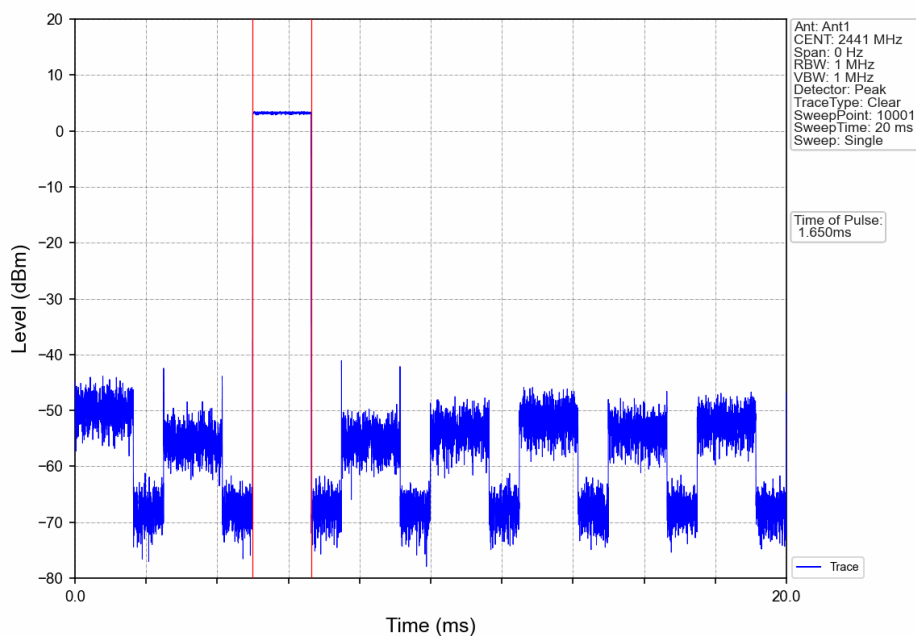
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.392	31.600	318	124.656	<=400	Pass
			DH3	1.650	31.600	166	273.900	<=400	Pass
			DH5	2.896	31.600	100	289.600	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	320	128.640	<=400	Pass
			2DH3	1.654	31.600	157	259.678	<=400	Pass
			2DH5	2.902	31.600	117	339.534	<=400	Pass
8DPSK	SISO	HOPP	3DH1	6.678	31.600	55	367.290	<=400	Pass
			3DH3	0.660	31.600	167	110.220	<=400	Pass
			3DH5	0.906	31.600	108	97.848	<=400	Pass



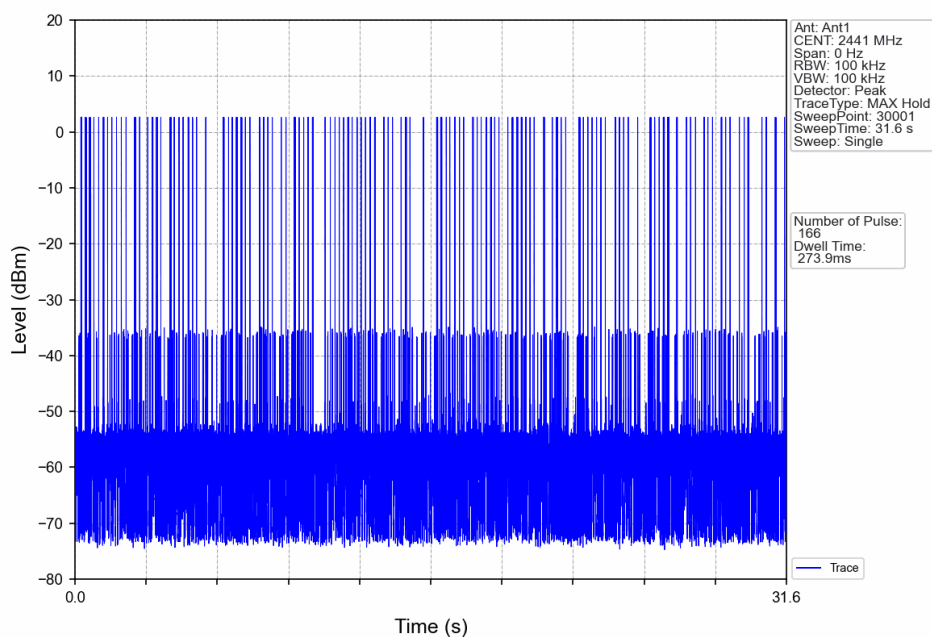
5.1.2 Test Graph



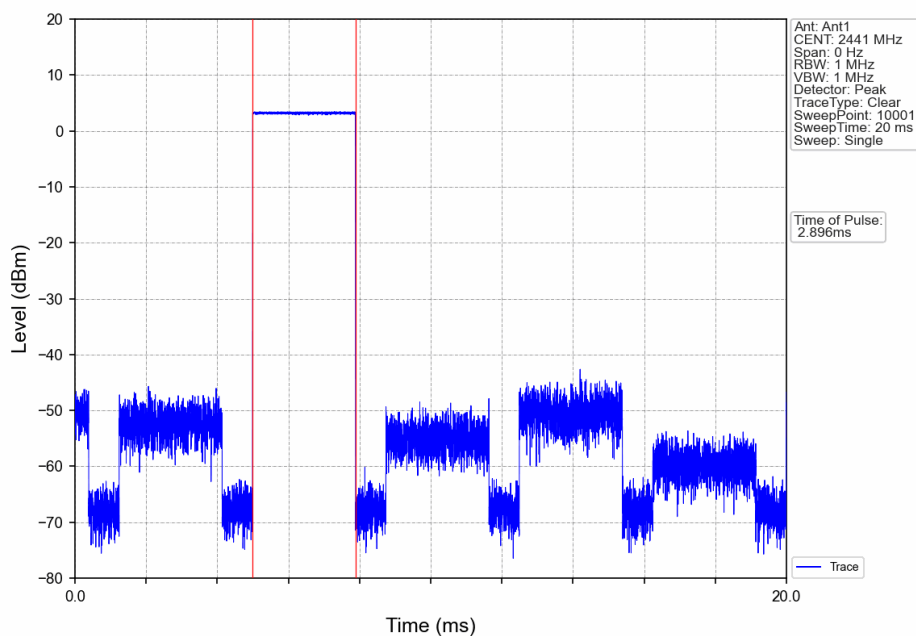
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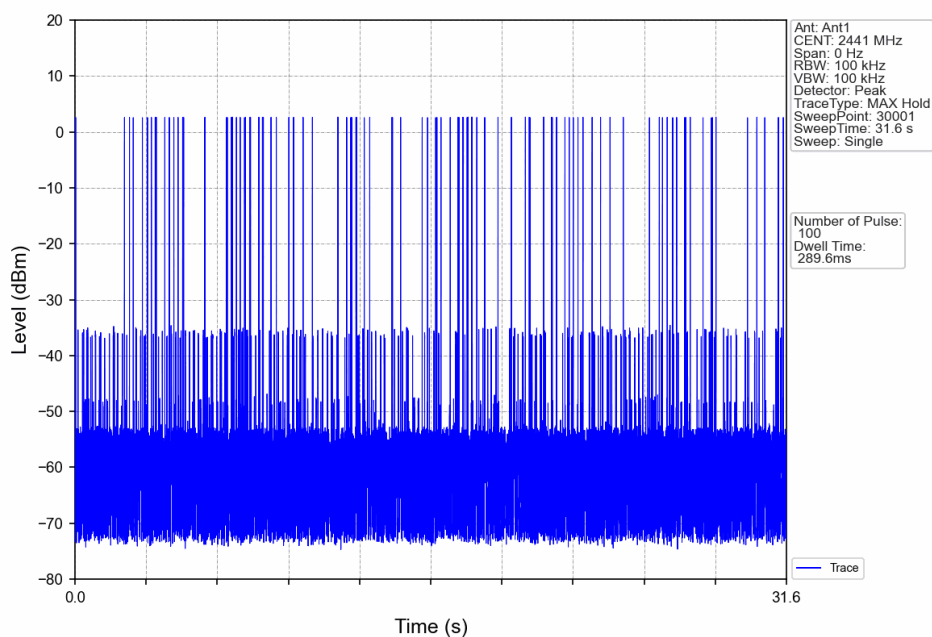
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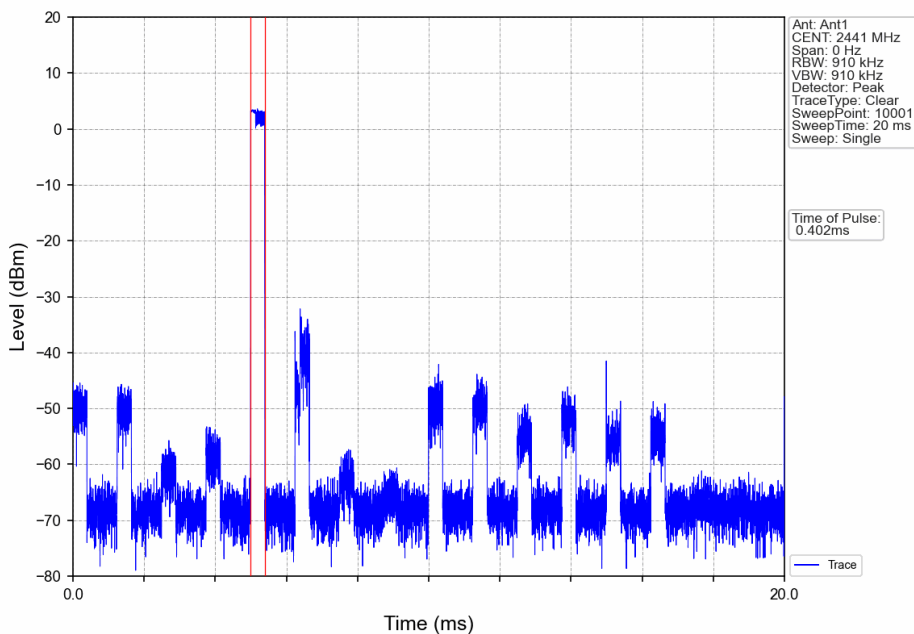
GFSK_DH5_HOPP_Ant1_NTNV



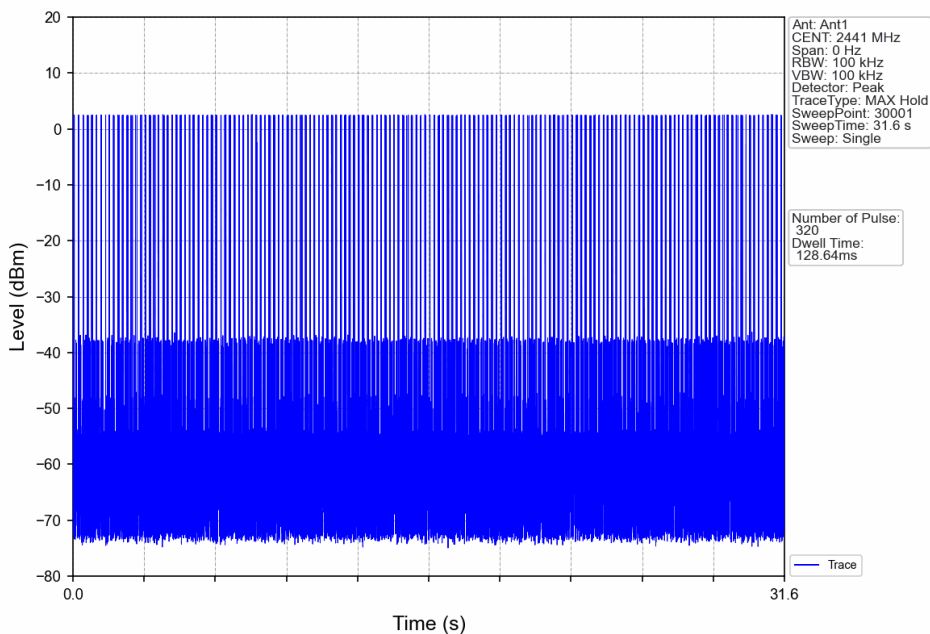
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



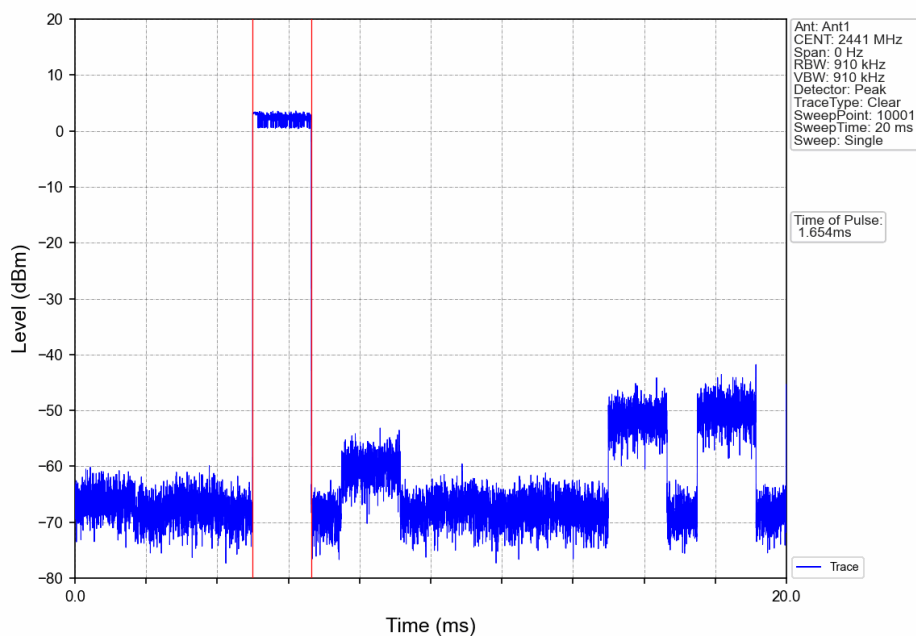
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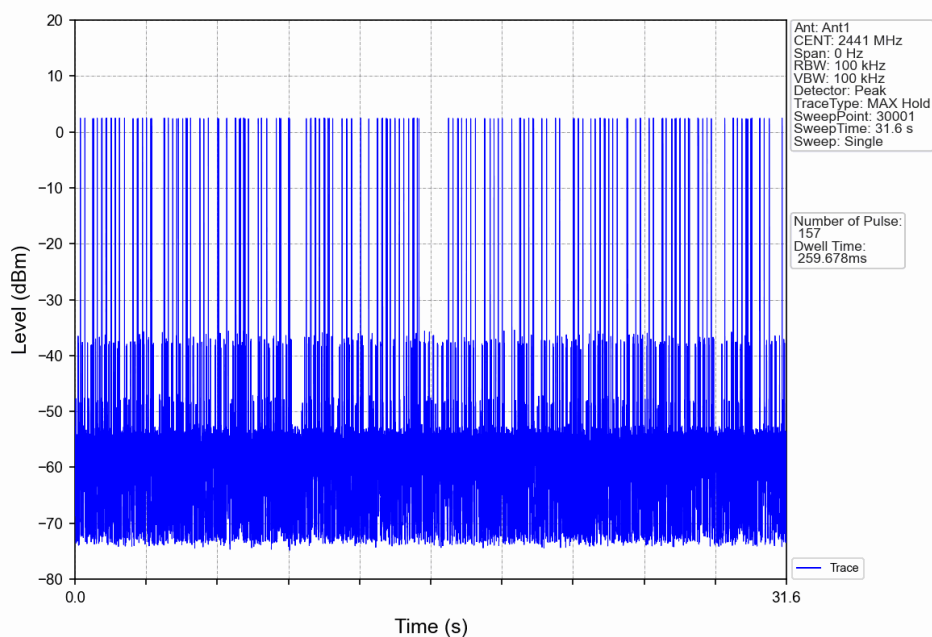
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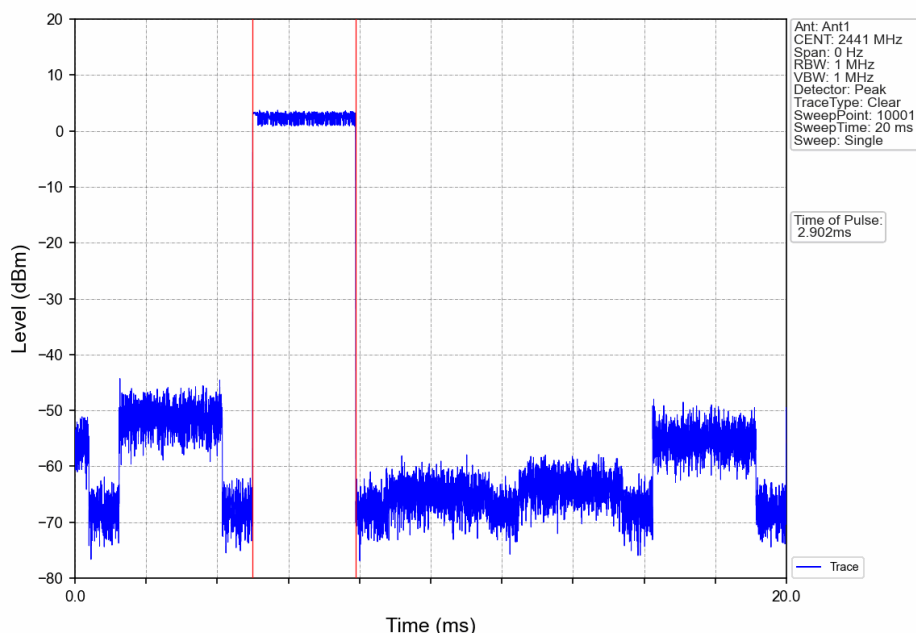
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



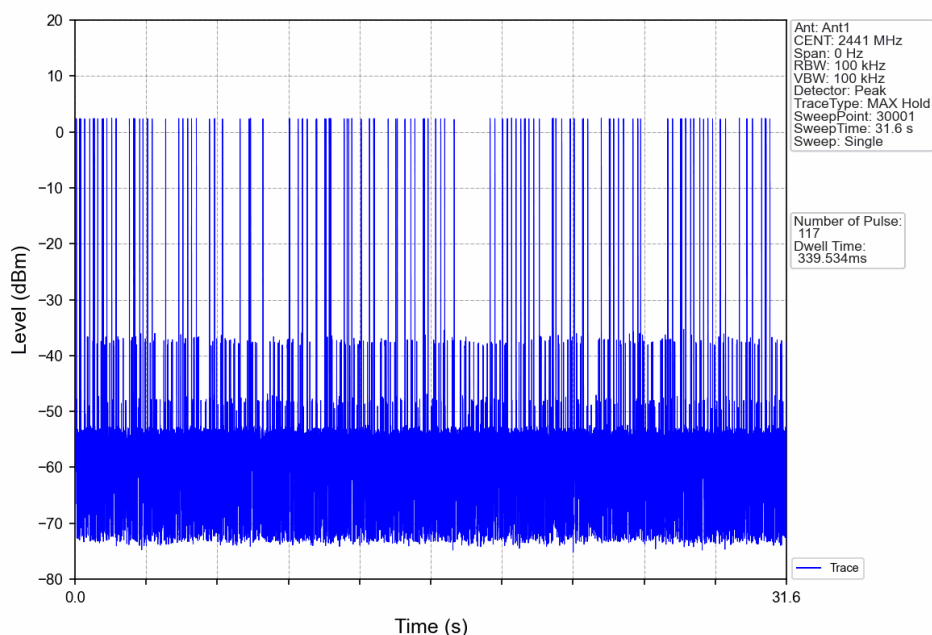
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



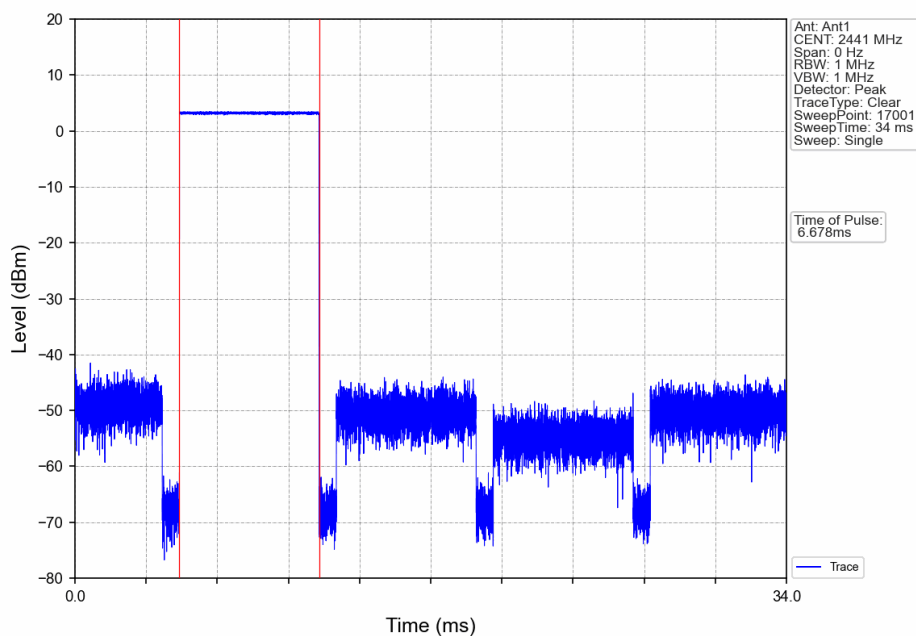
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



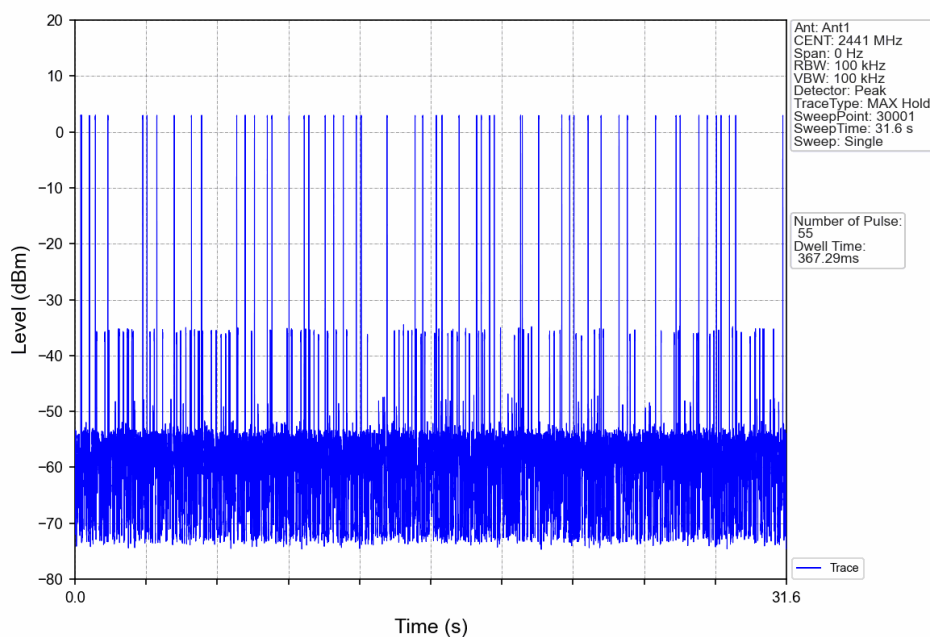
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



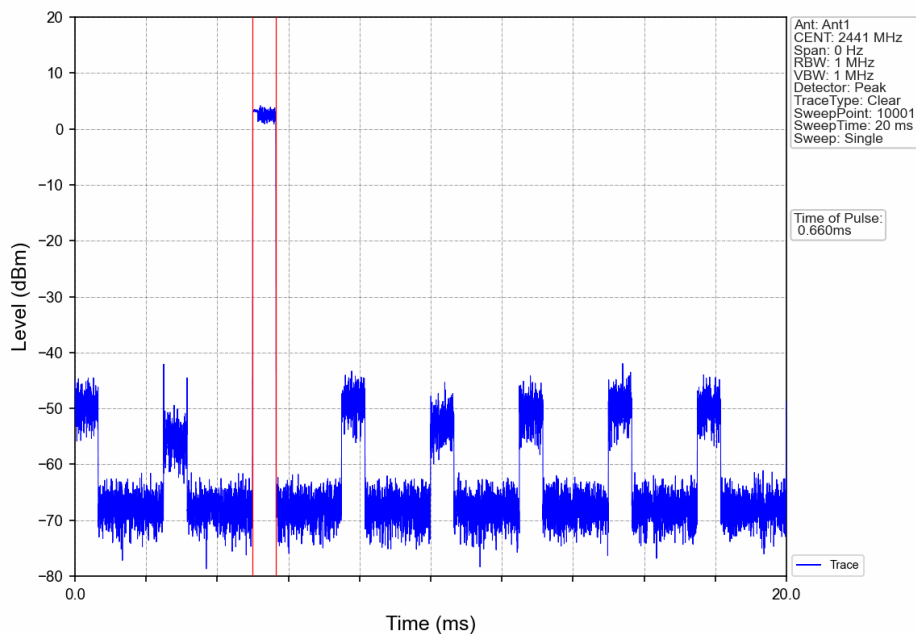
8DPSK_3DH1_HOPP_Ant1_NTNV



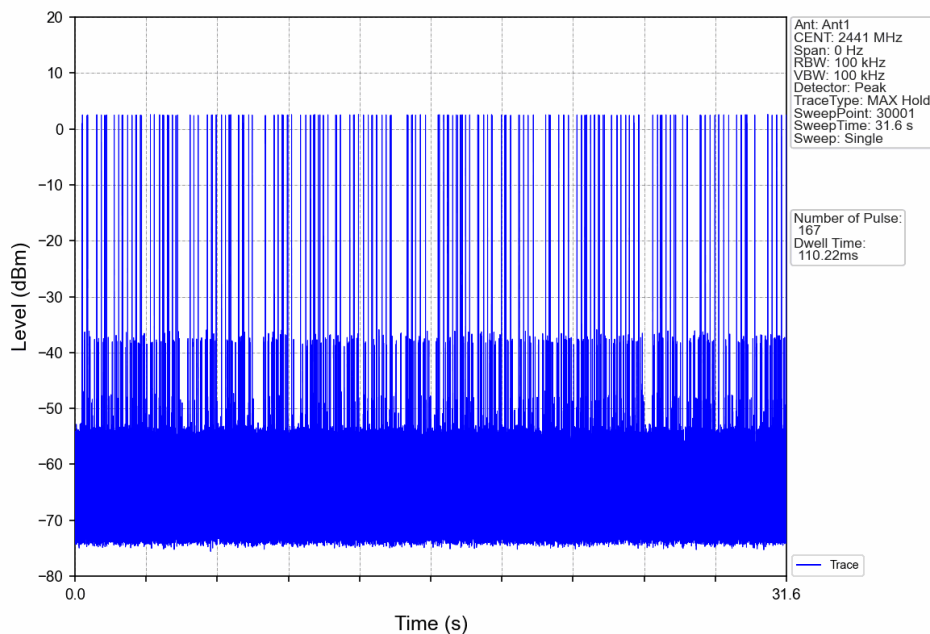
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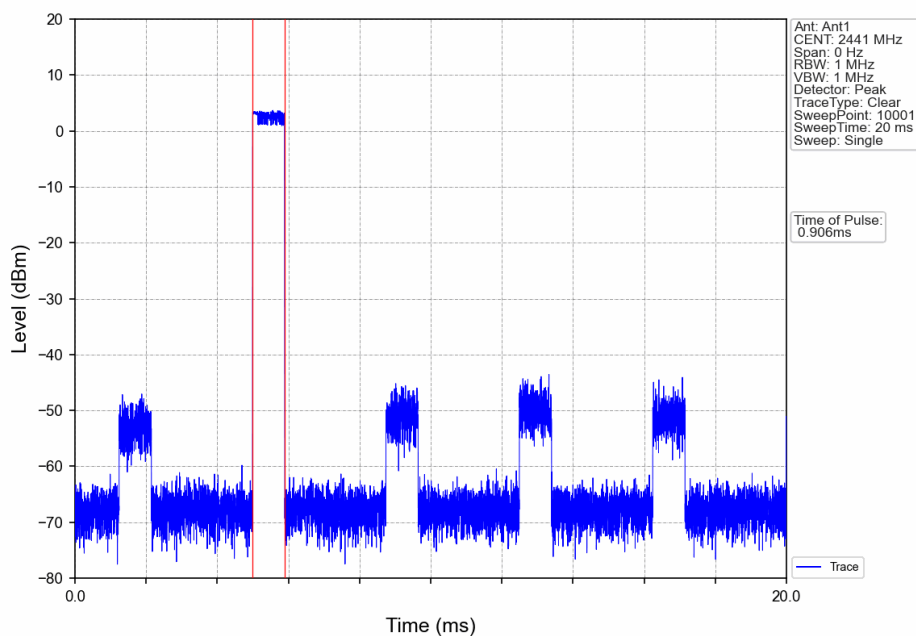
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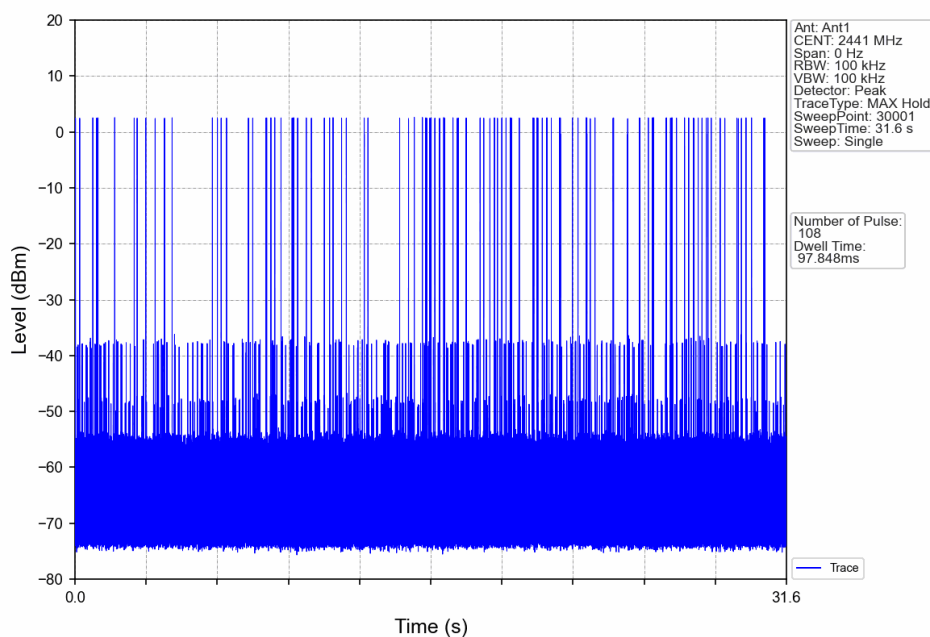
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

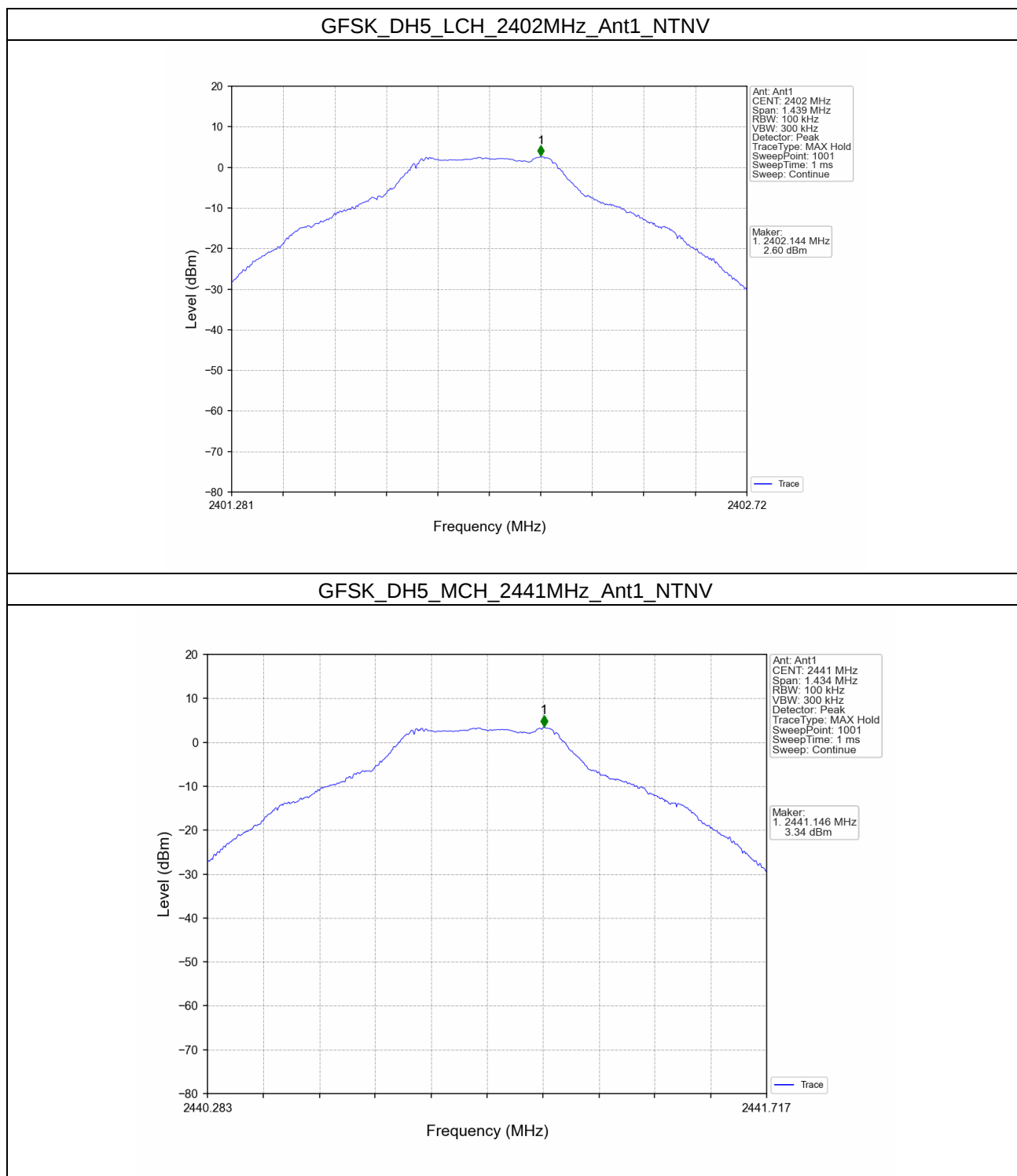
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.60
		2441	DH5	1	3.34
		2480	DH5	1	3.76
Pi/4DQPSK	SISO	2402	2DH5	1	2.58
		2441	2DH5	1	3.35
		2480	2DH5	1	3.77
8DPSK	SISO	2402	3DH5	1	2.62
		2441	3DH5	1	3.38
		2480	3DH5	1	3.82

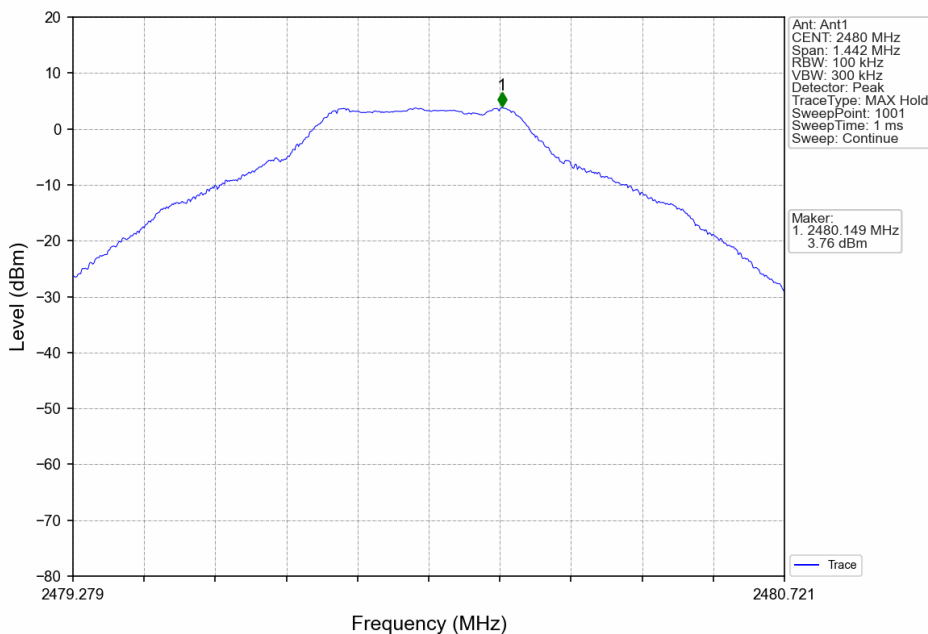
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



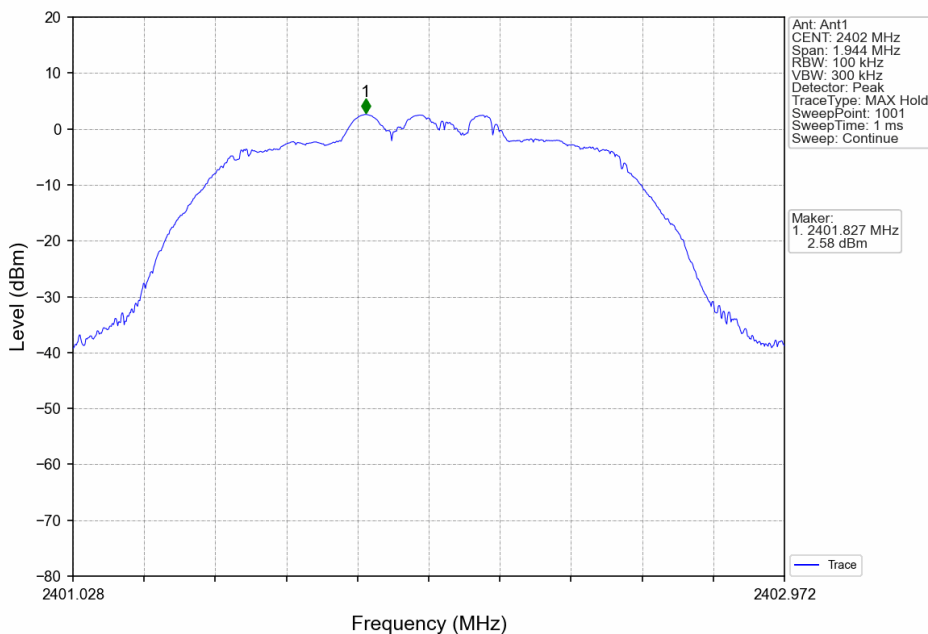
6.1.2 Test Graph



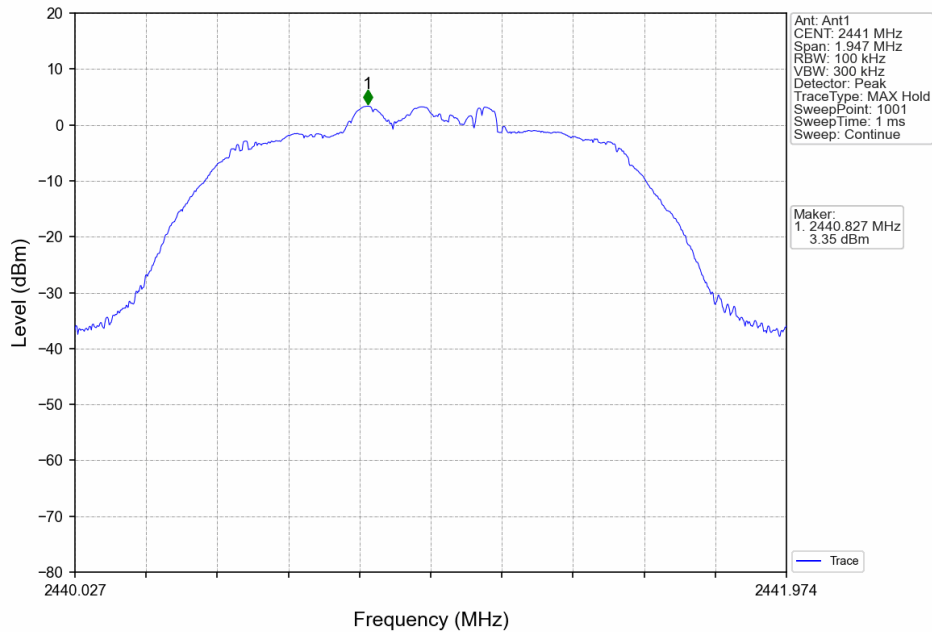
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



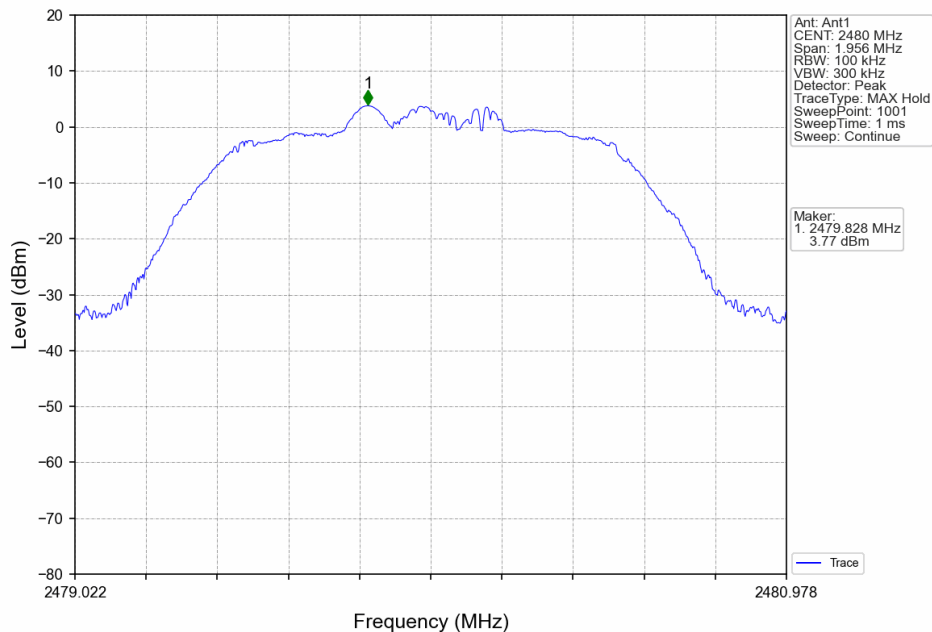
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



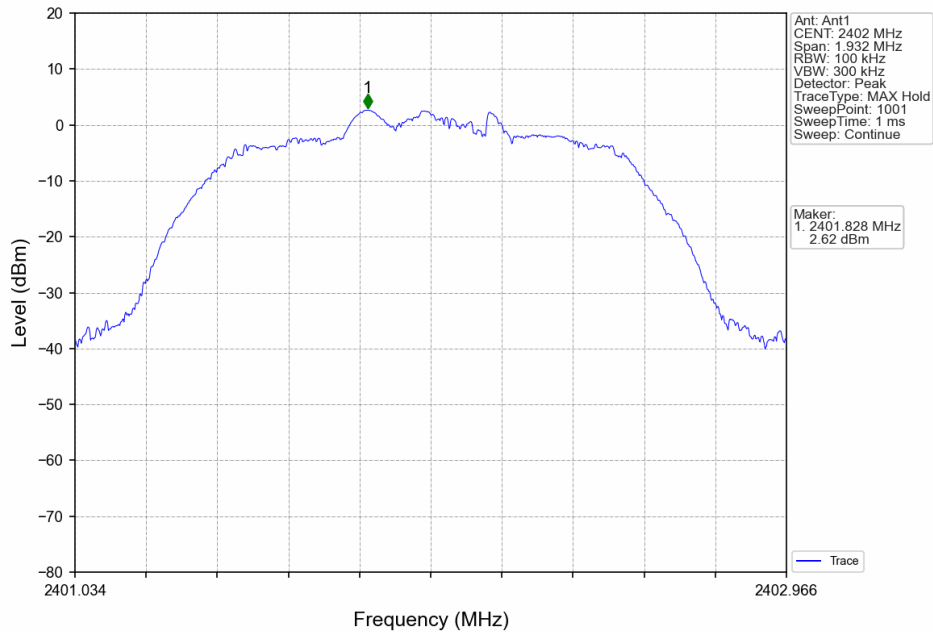
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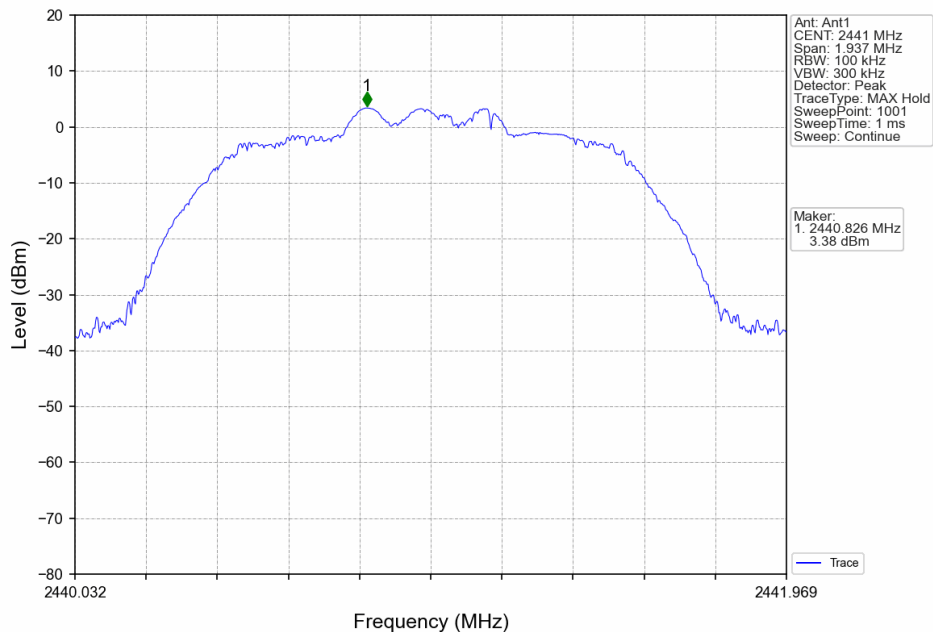
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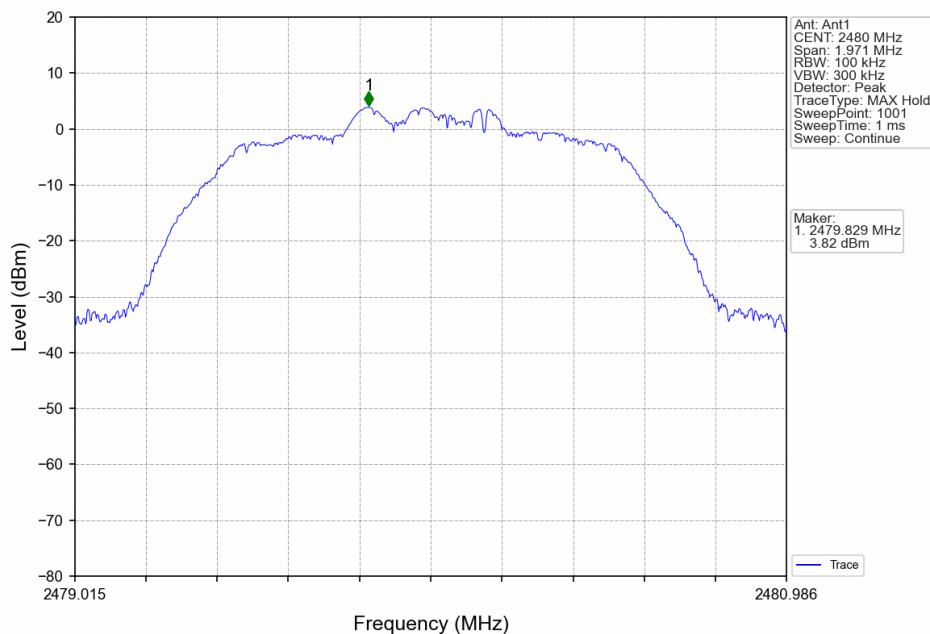
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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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	3.76	-16.24	Pass
		2441	DH5	1	3.76	-16.24	Pass
		2480	DH5	1	3.76	-16.24	Pass
		HOPP	DH5	1	3.76	-16.24	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.77	-16.23	Pass
		2441	2DH5	1	3.77	-16.23	Pass
		2480	2DH5	1	3.77	-16.23	Pass
		HOPP	2DH5	1	3.77	-16.23	Pass
8DPSK	SISO	2402	3DH5	1	3.82	-16.18	Pass
		2441	3DH5	1	3.82	-16.18	Pass
		2480	3DH5	1	3.82	-16.18	Pass
		HOPP	3DH5	1	3.82	-16.18	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.



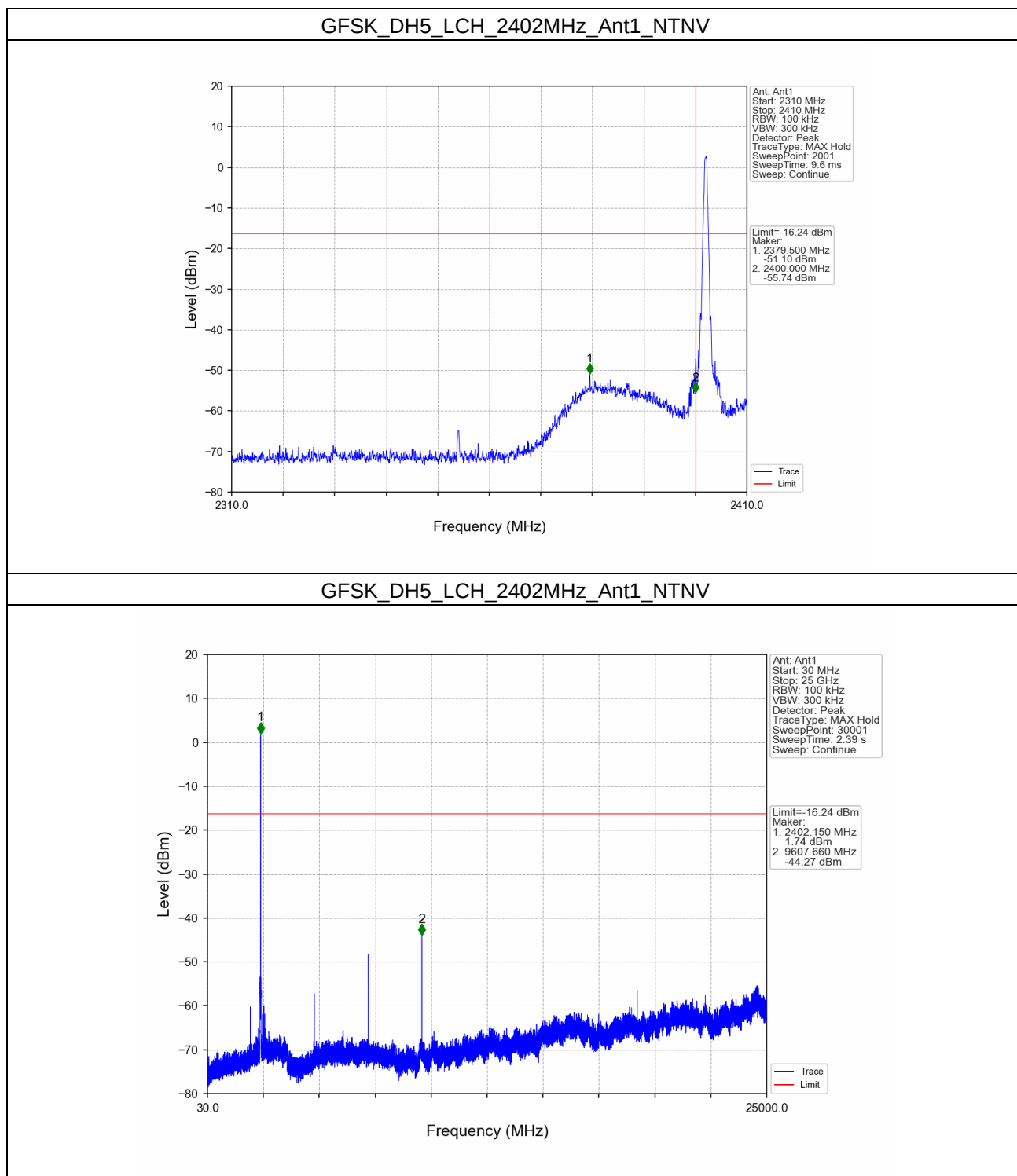
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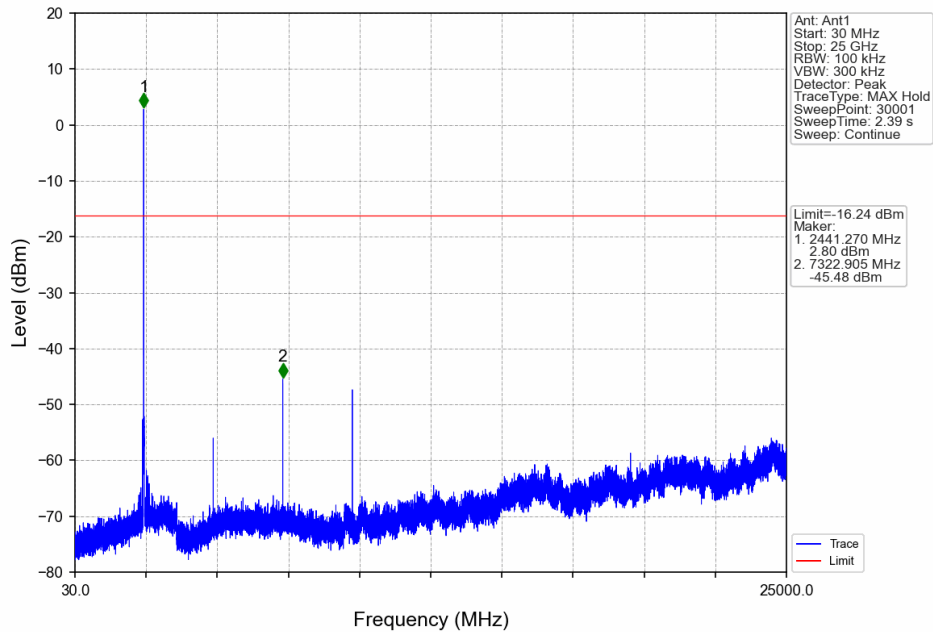
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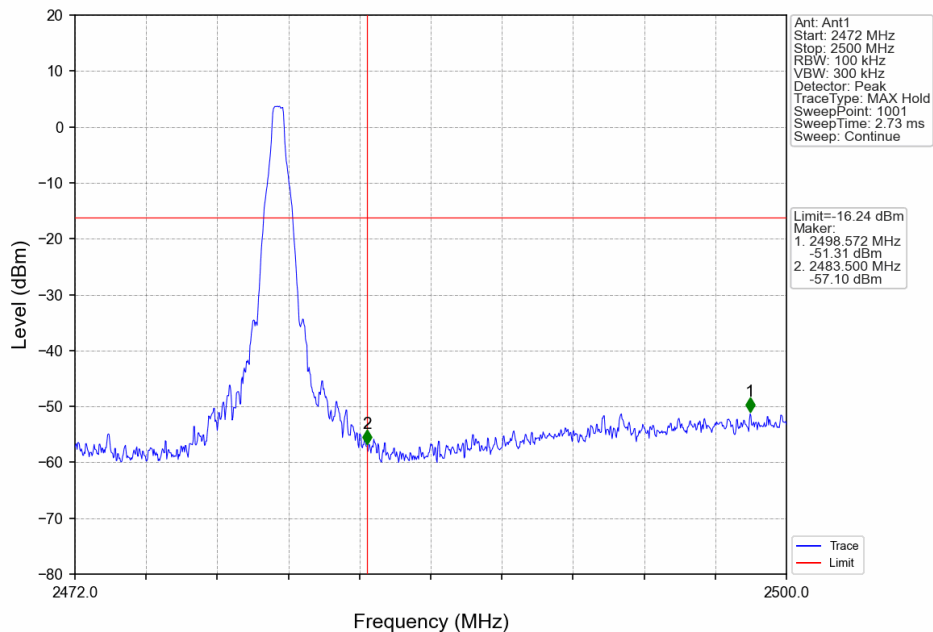
6.2.2 Test Graph



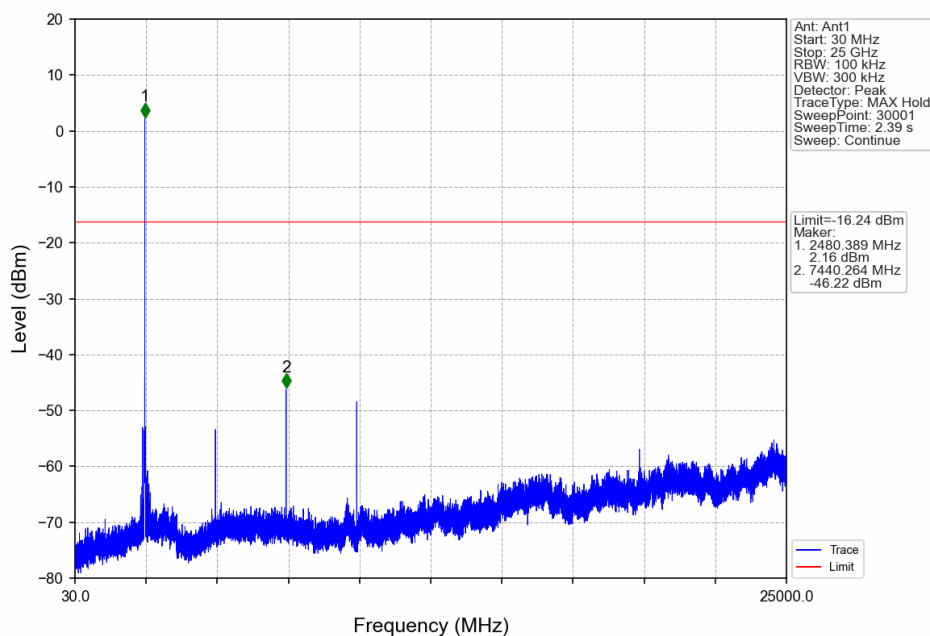
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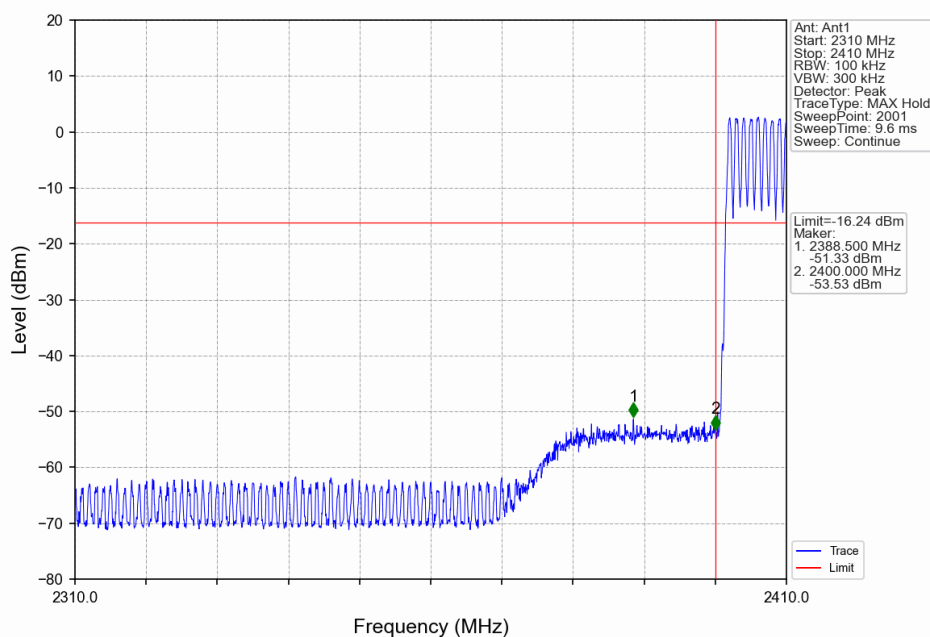
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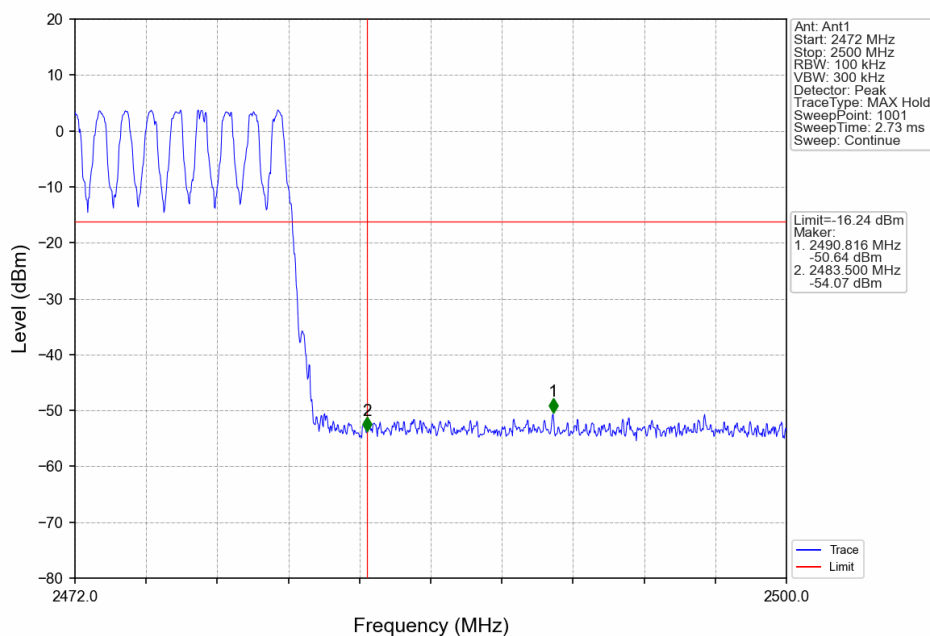
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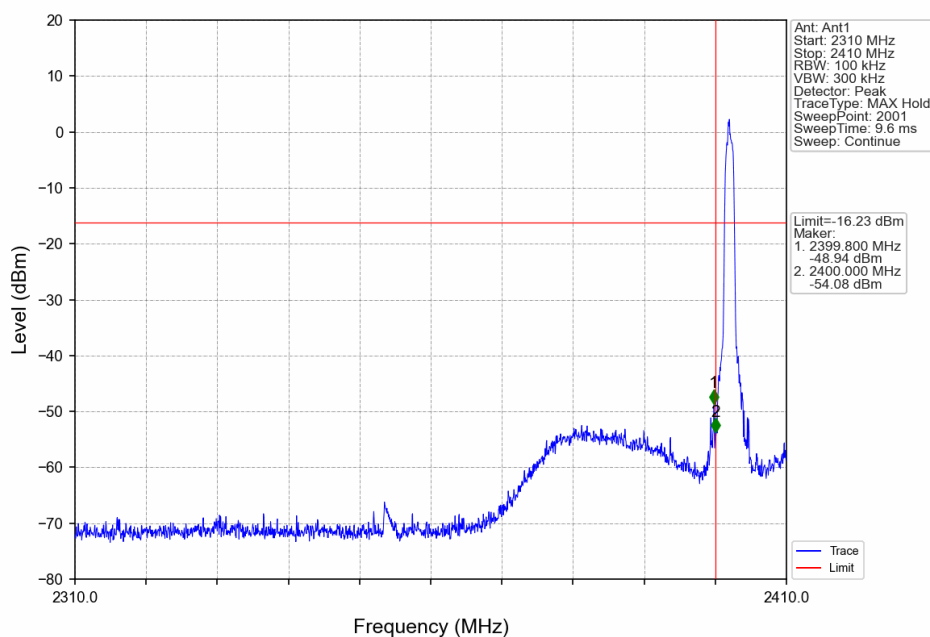
GFSK_DH5_HOPP_Ant1_NTNV



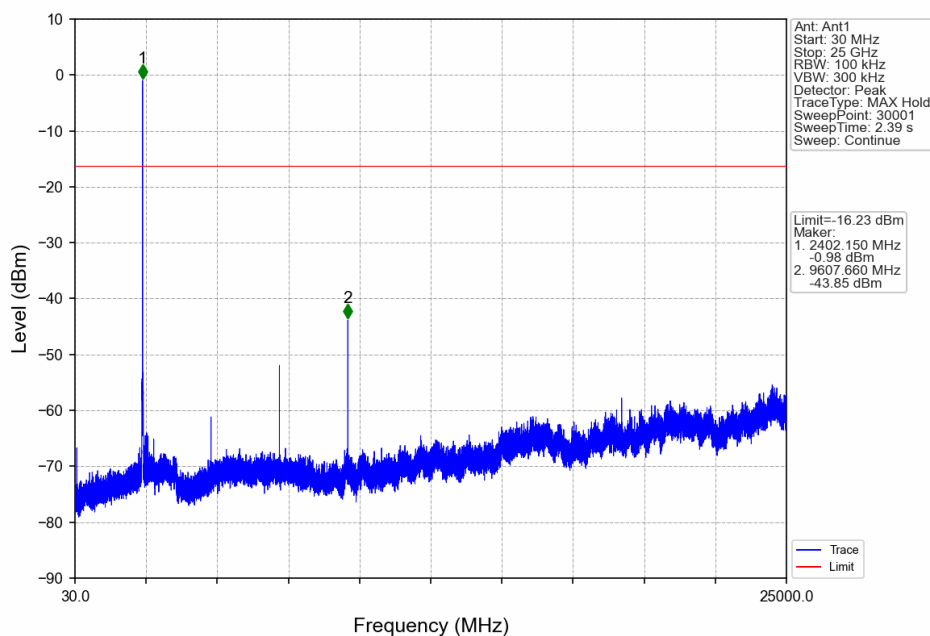
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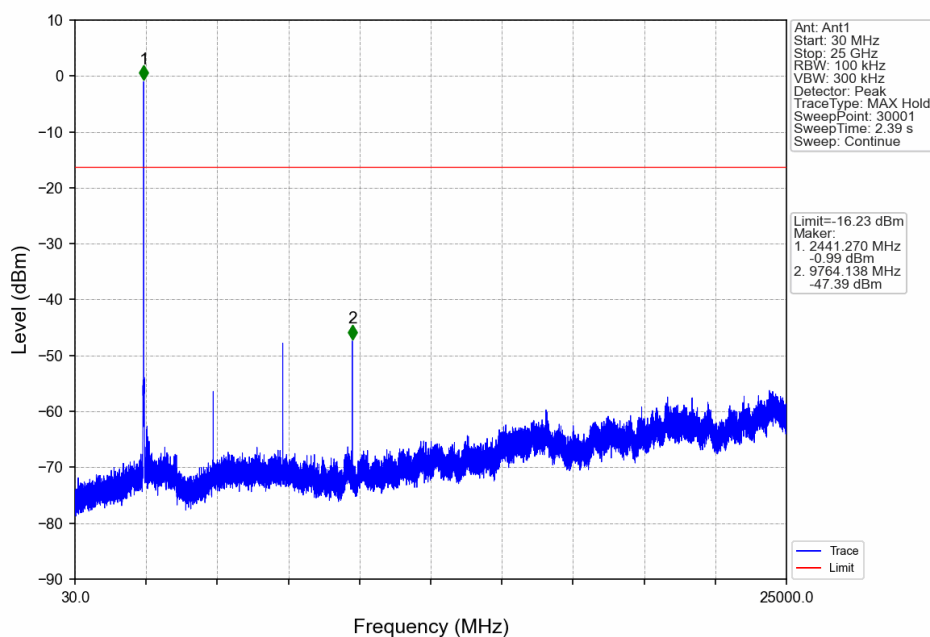
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



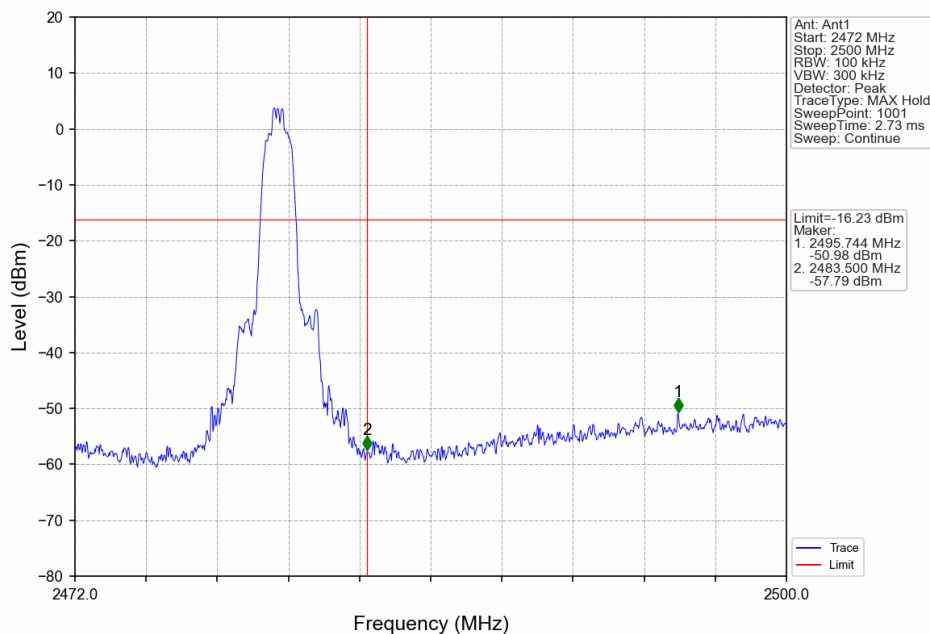
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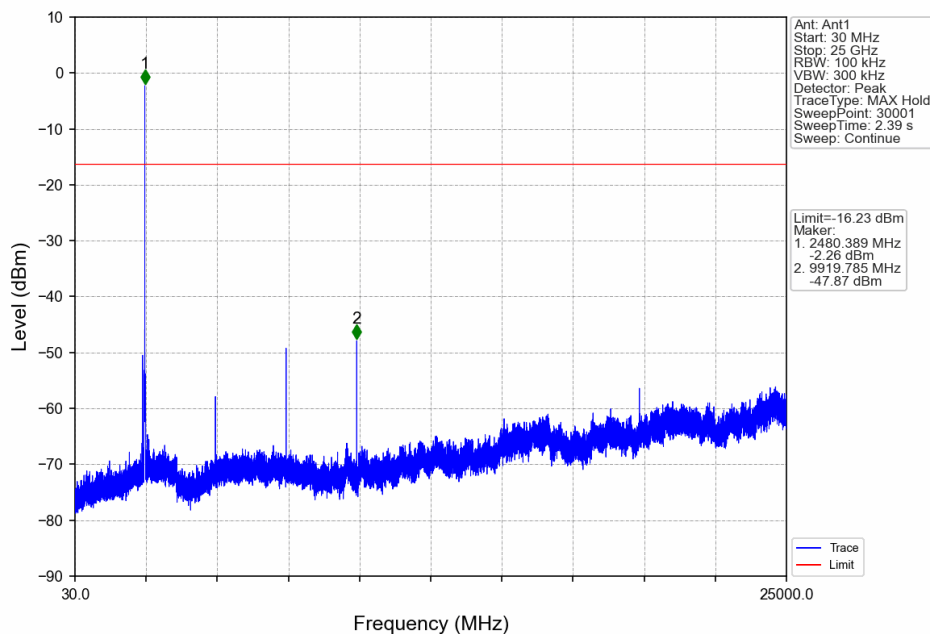
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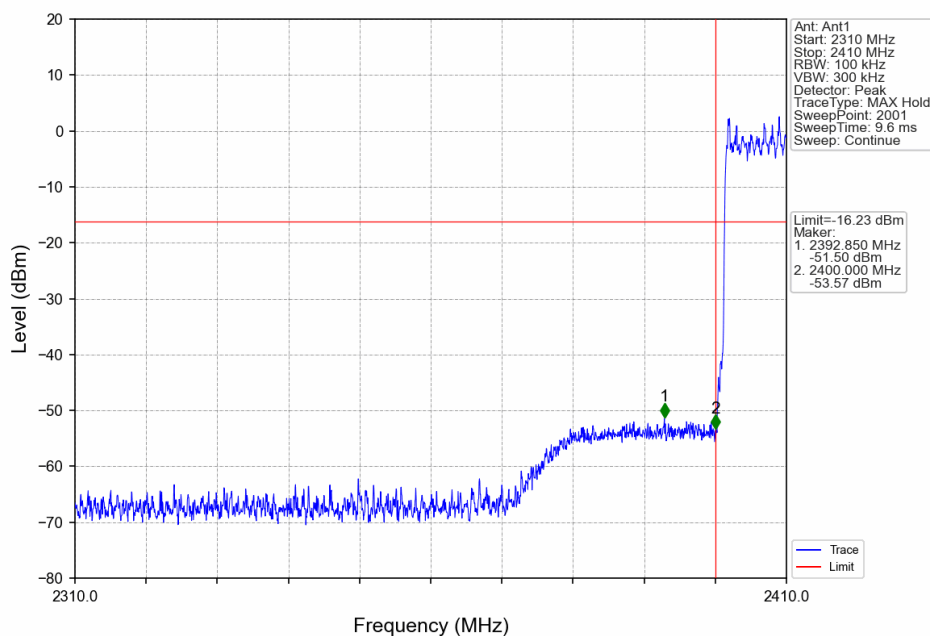
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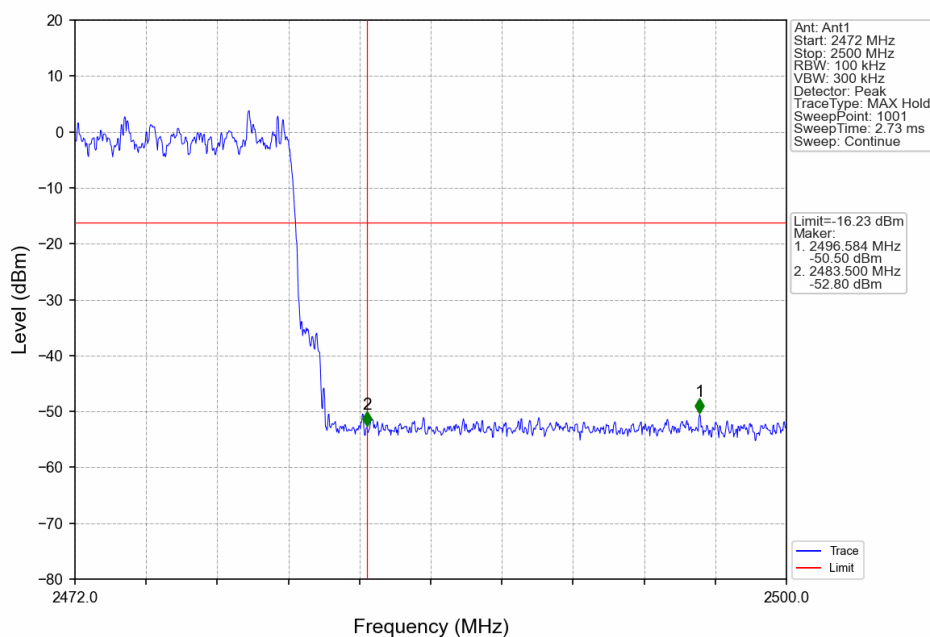
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



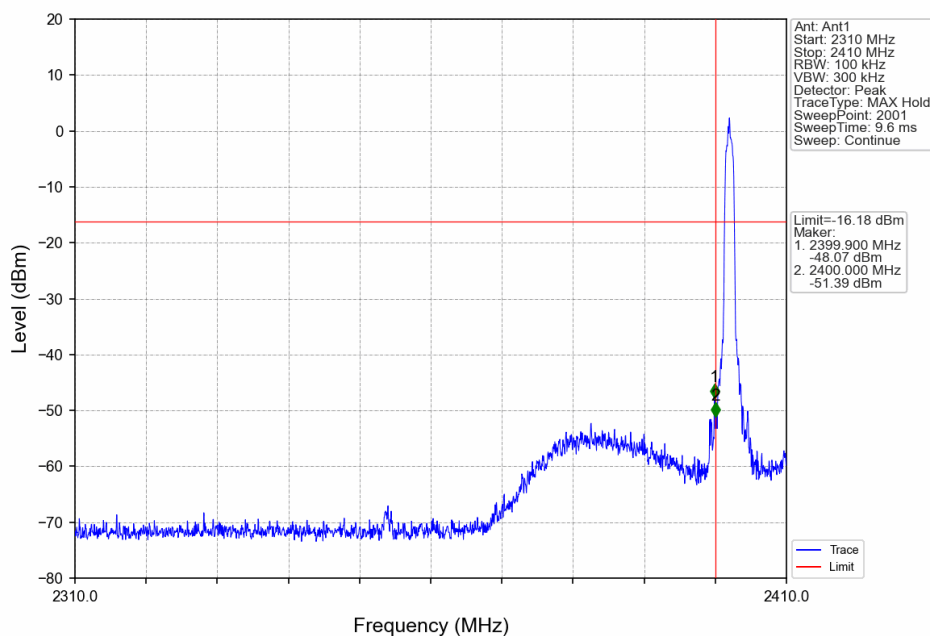
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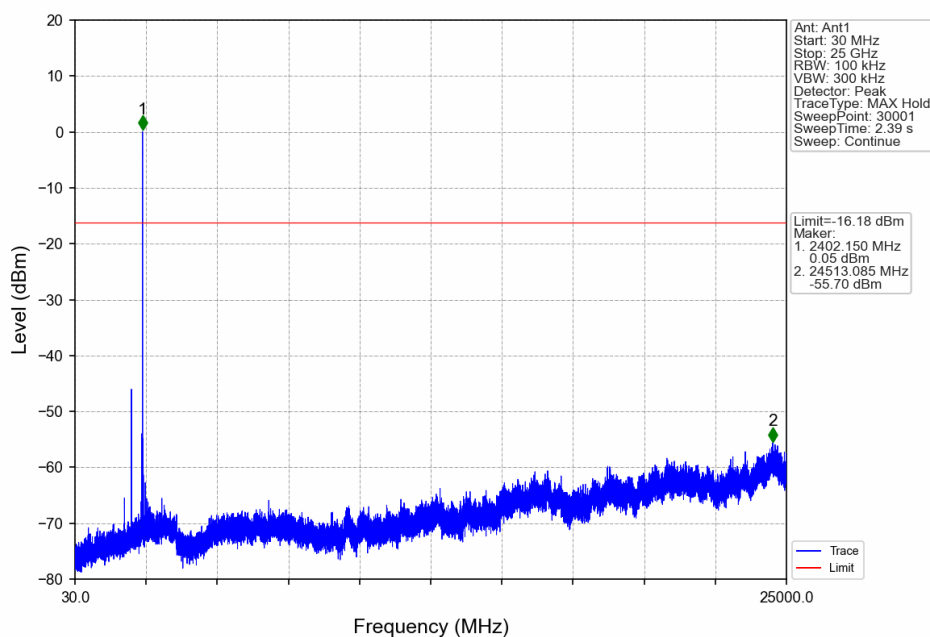
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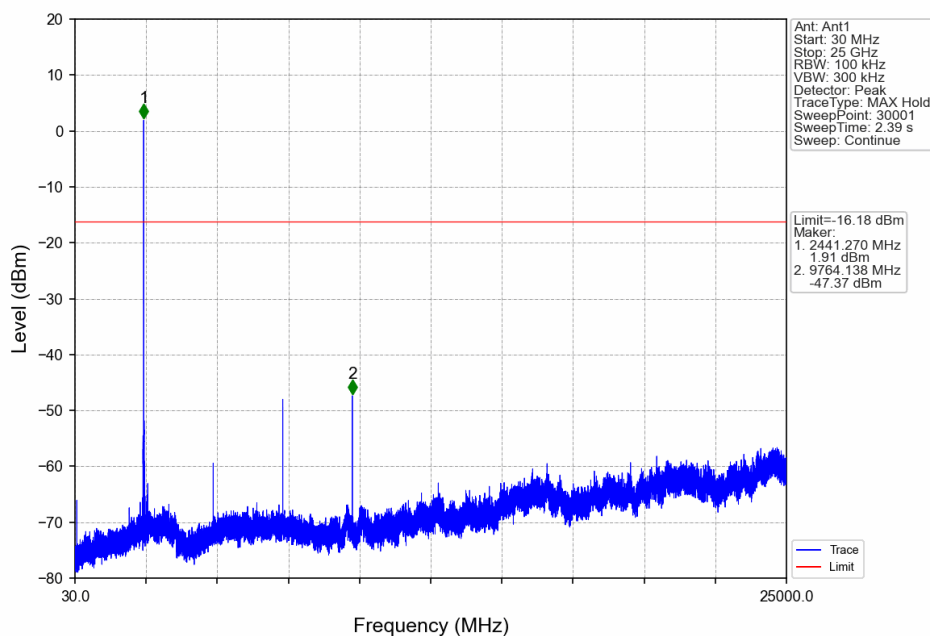
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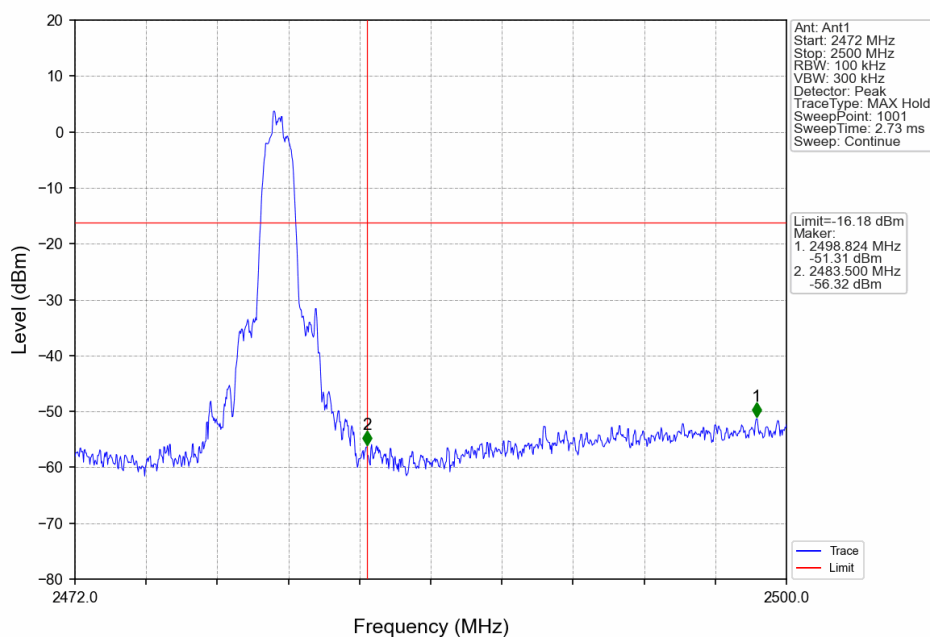
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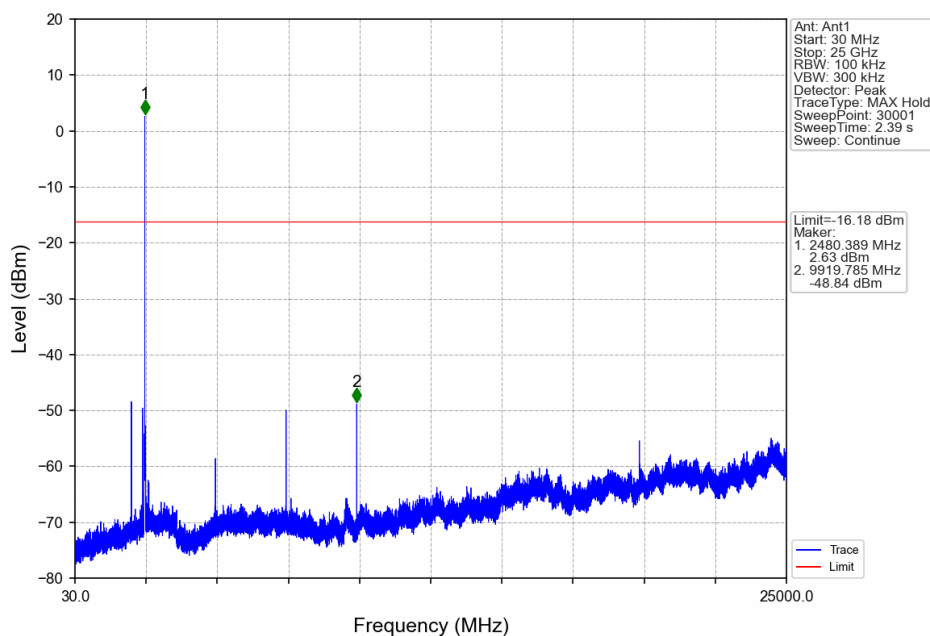
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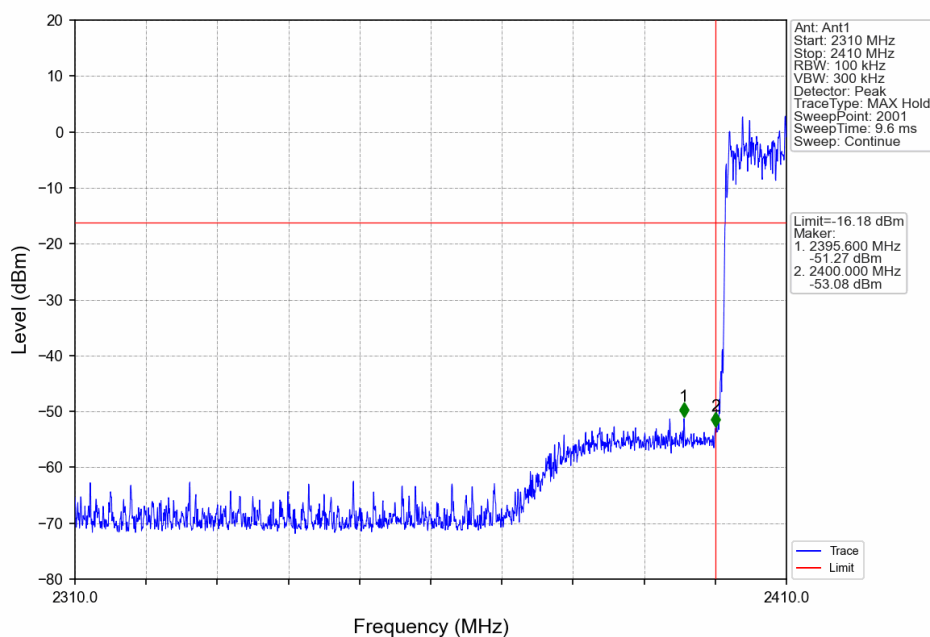
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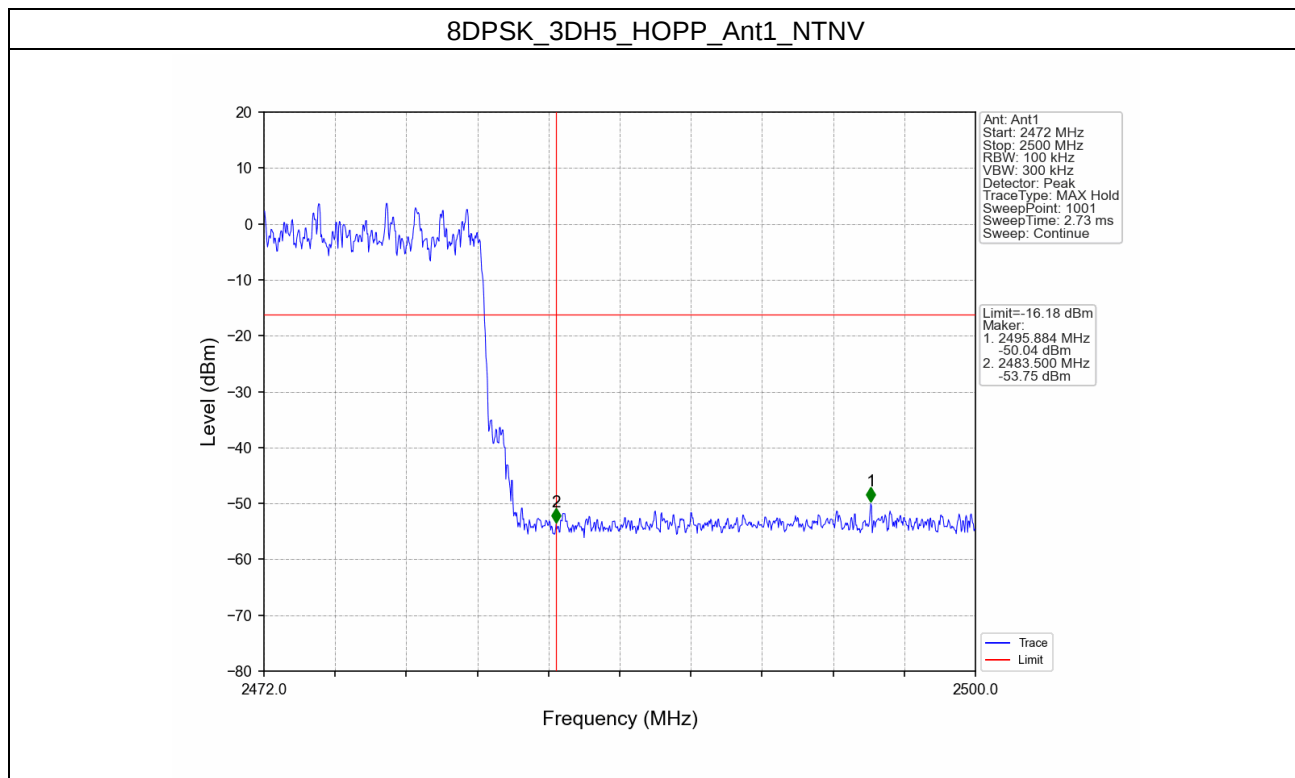


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





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For Center Stage Module3:

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	0.855	Pass
		2441	DH5	1	0.857	Pass
		2480	DH5	1	0.870	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.171	Pass
		2441	2DH5	1	1.176	Pass
		2480	2DH5	1	1.186	Pass
8DPSK	SISO	2402	3DH5	1	1.166	Pass
		2441	3DH5	1	1.169	Pass
		2480	3DH5	1	1.173	Pass



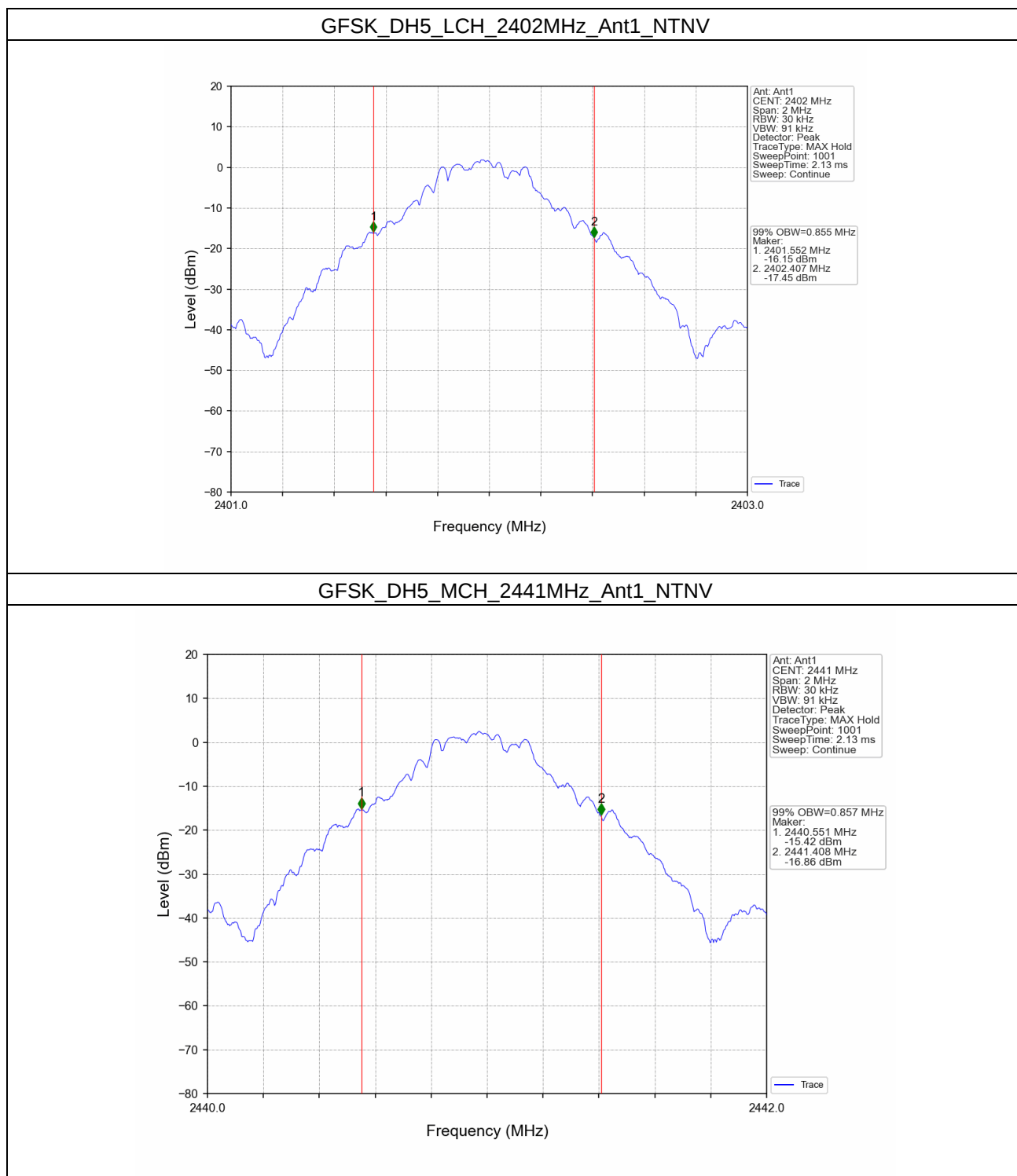
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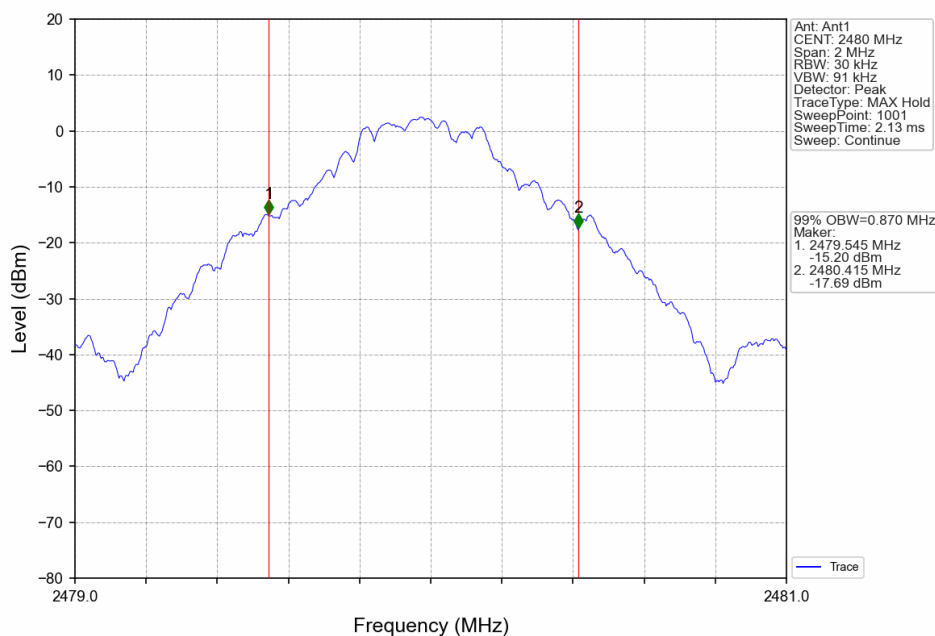
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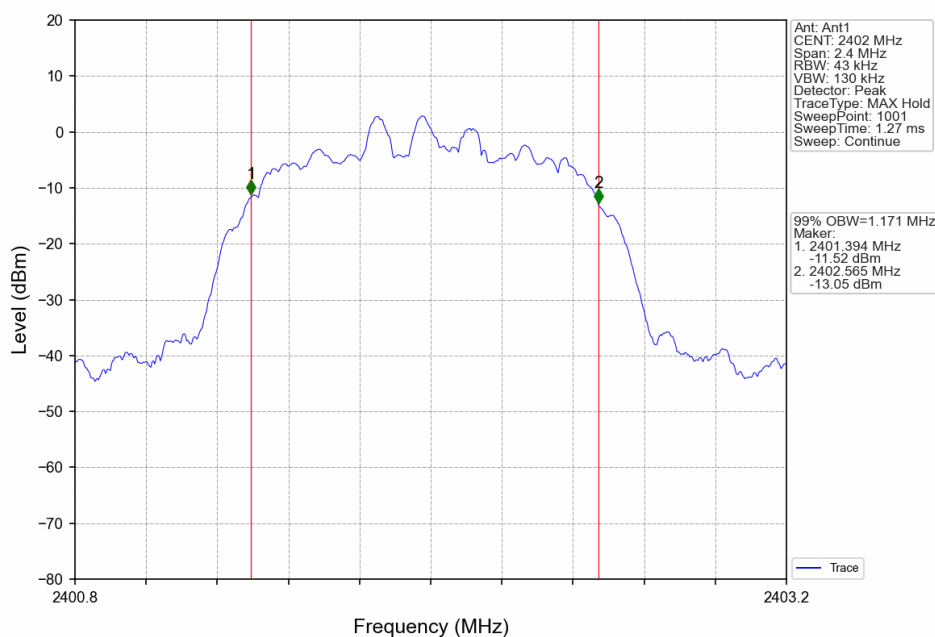
1.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



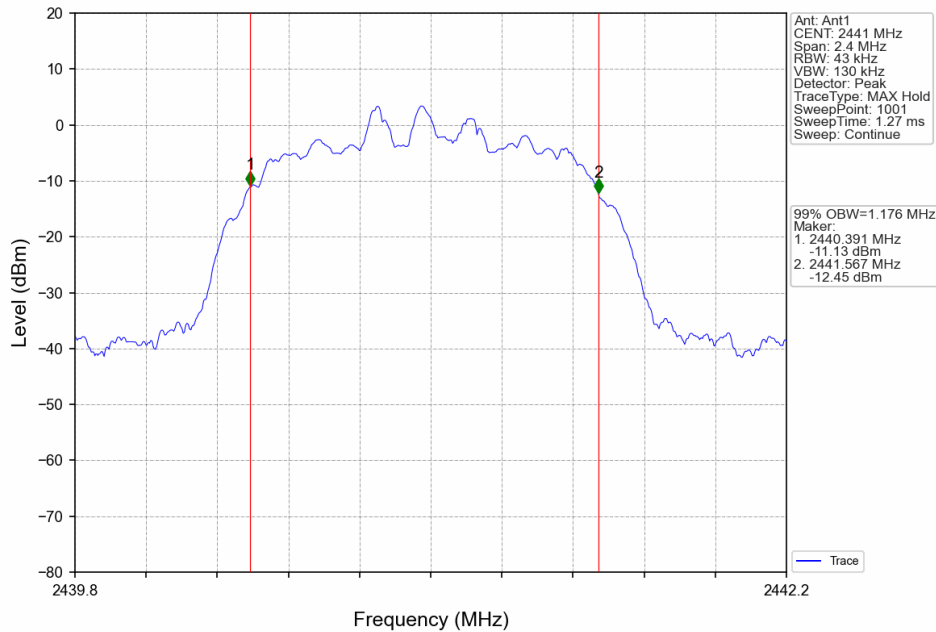
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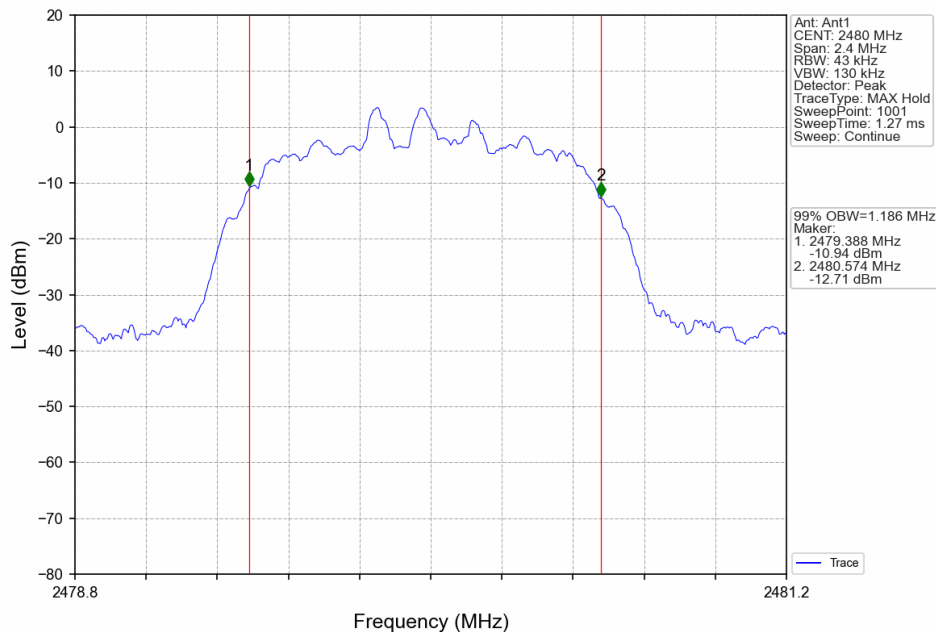
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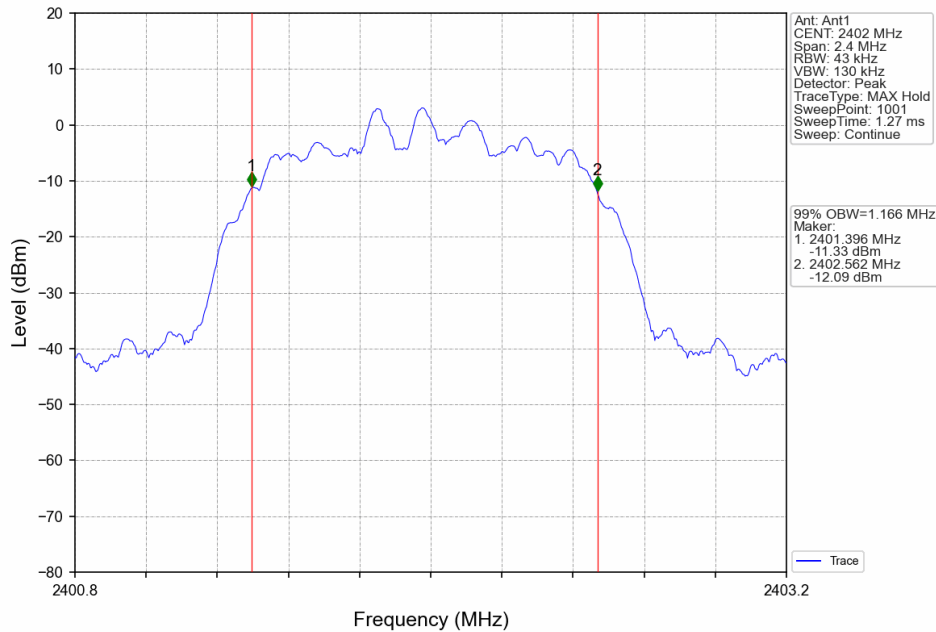
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



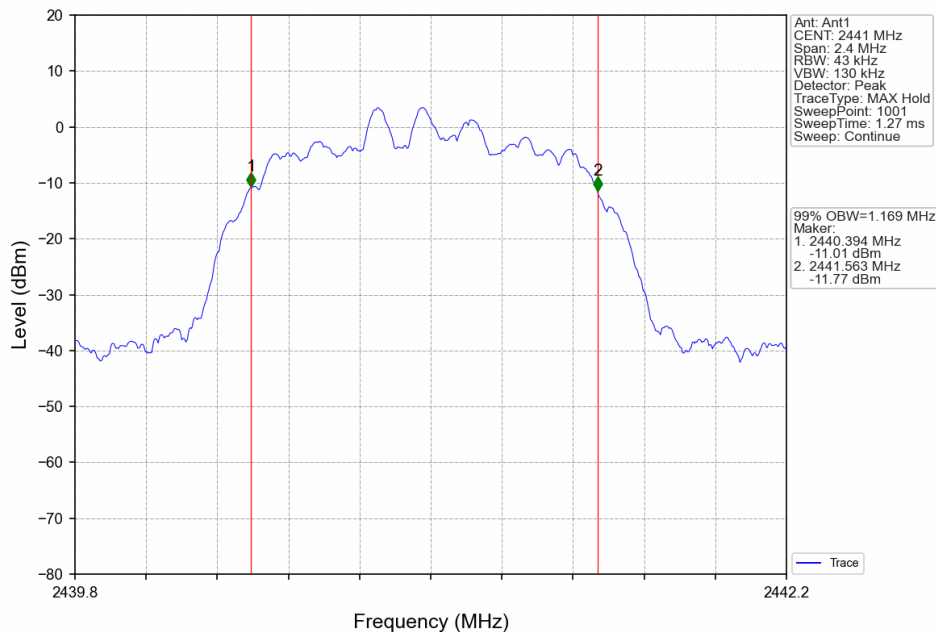
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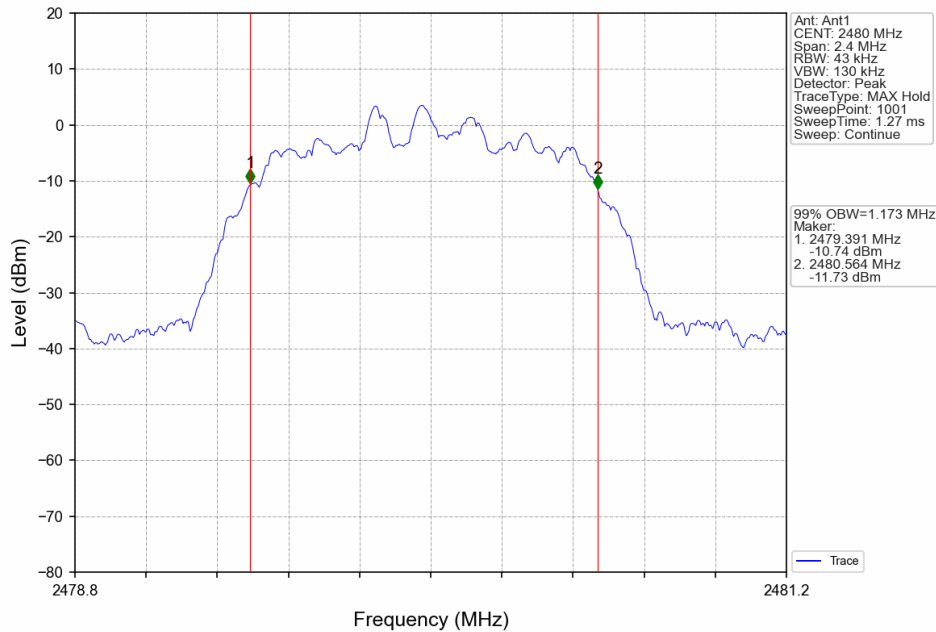
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.955	Pass
		2441	DH5	1	0.950	Pass
		2480	DH5	1	0.952	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.292	Pass
		2441	2DH5	1	1.302	Pass
		2480	2DH5	1	1.326	Pass
8DPSK	SISO	2402	3DH5	1	1.286	Pass
		2441	3DH5	1	1.295	Pass
		2480	3DH5	1	1.301	Pass



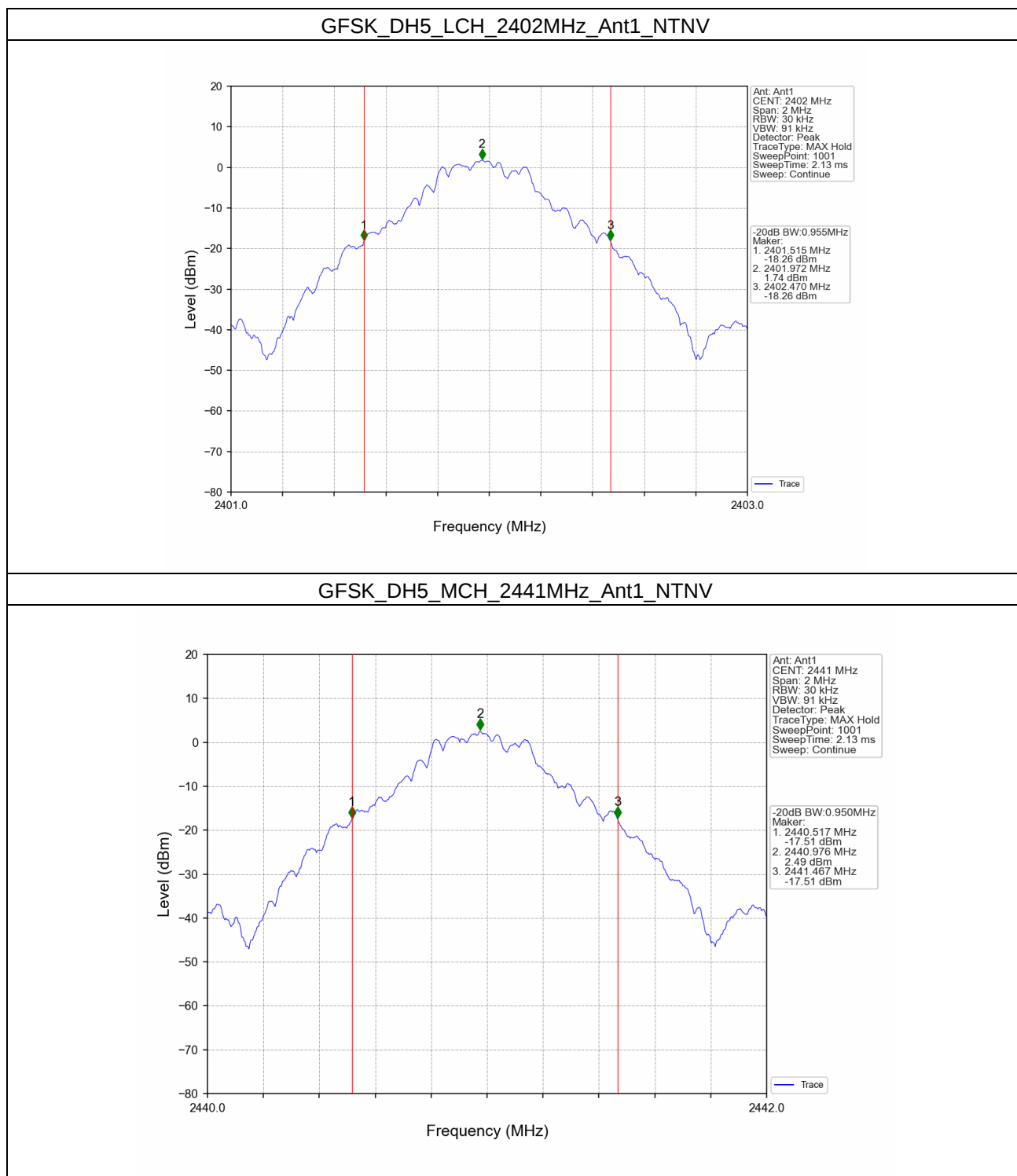
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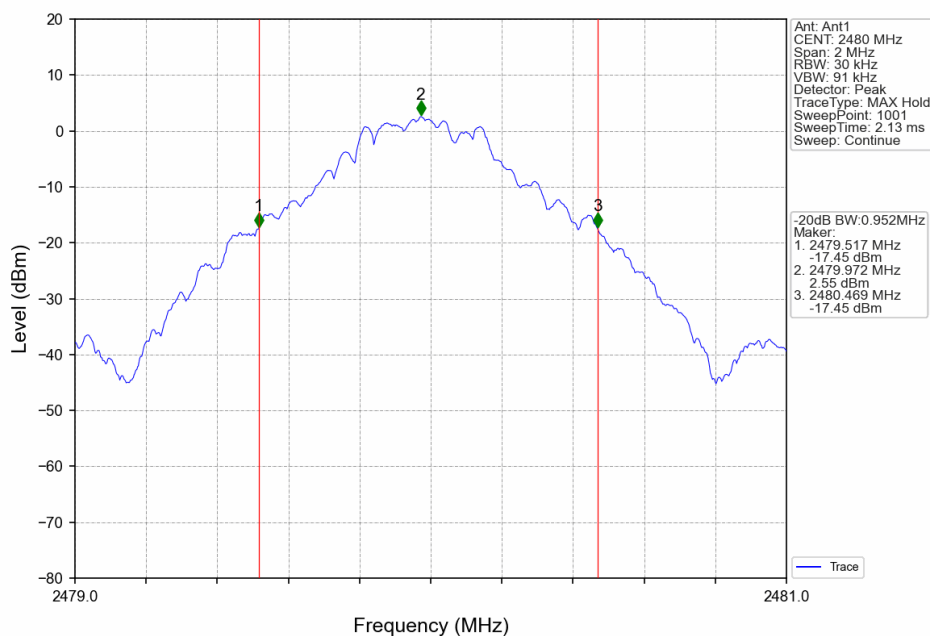
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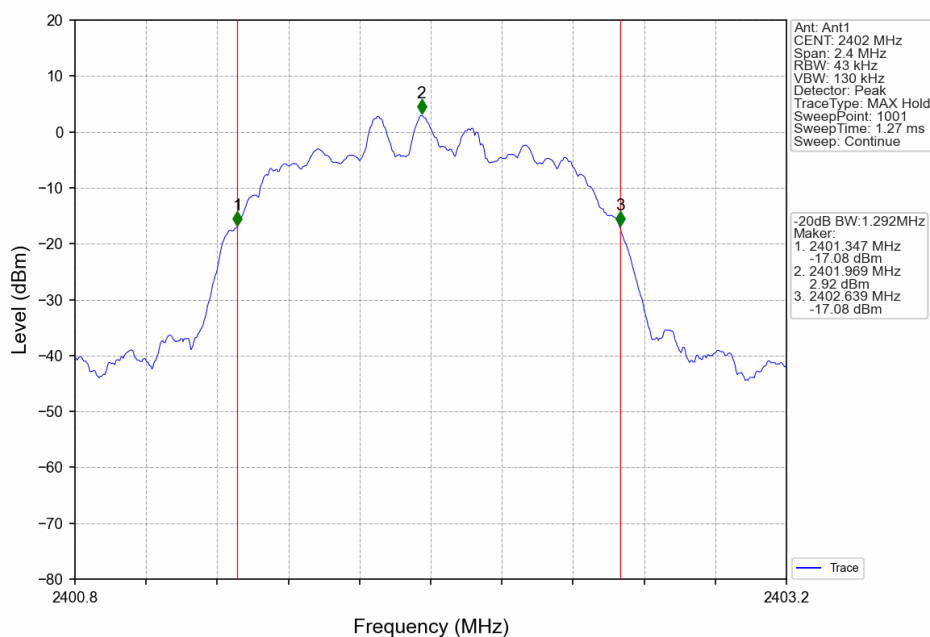
1.2.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



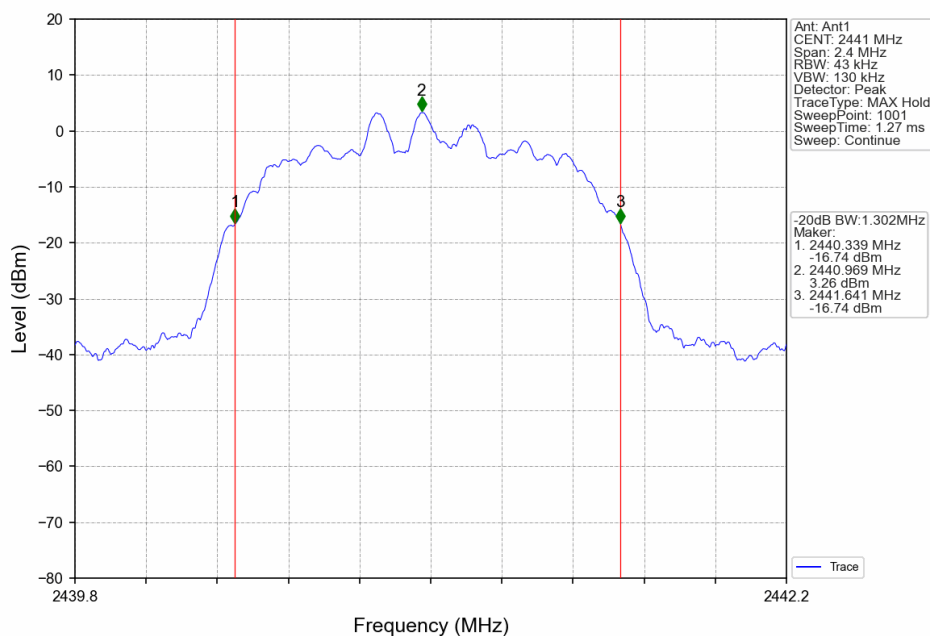
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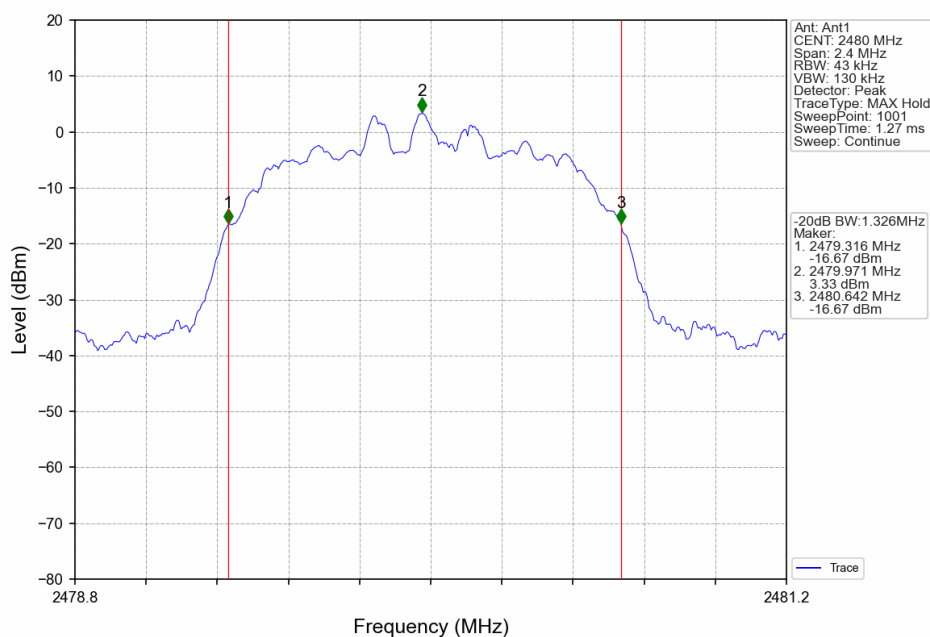
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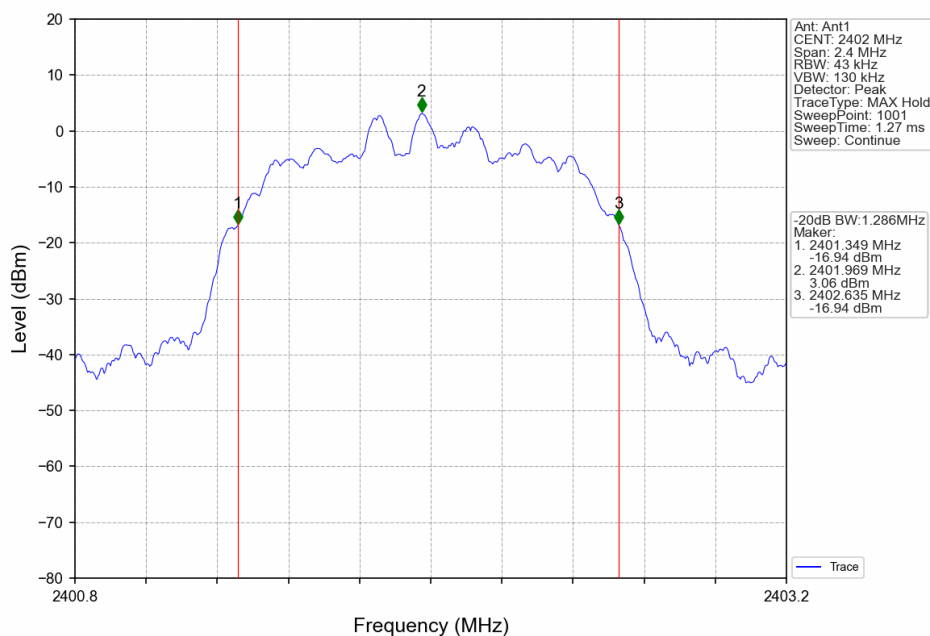
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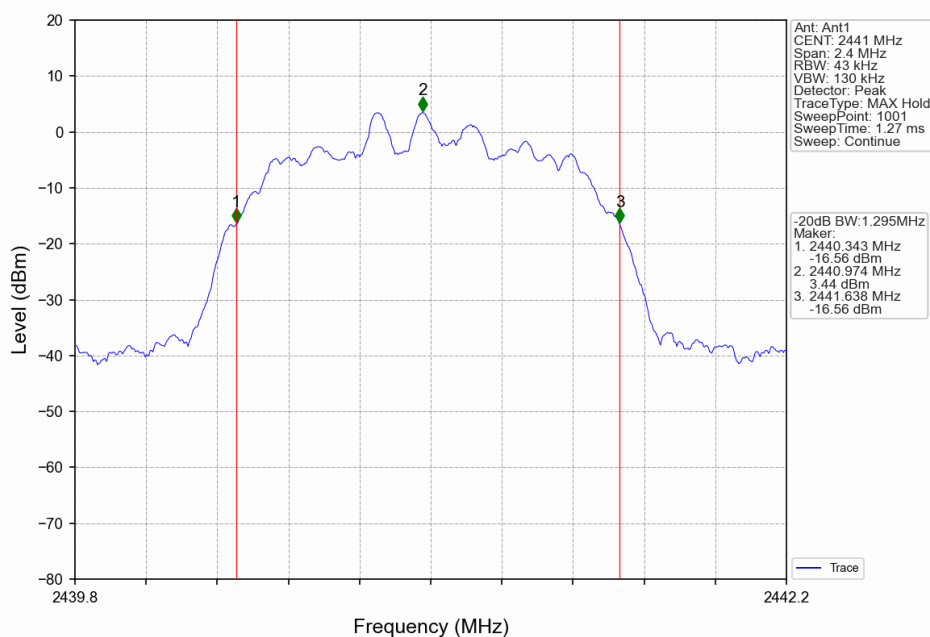
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



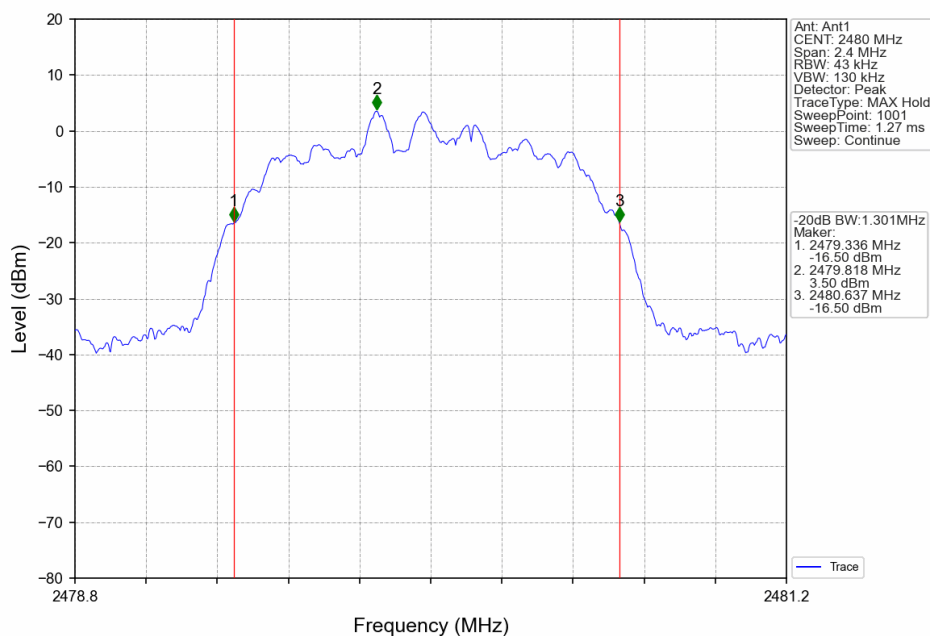
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	3.97	<=30	Pass
		2441	DH5	4.47	<=30	Pass
		2480	DH5	4.55	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.76	<=20.97	Pass
		2441	2DH5	5.17	<=20.97	Pass
		2480	2DH5	5.21	<=20.97	Pass
8DPSK	SISO	2402	3DH5	4.85	<=20.97	Pass
		2441	3DH5	5.29	<=20.97	Pass
		2480	3DH5	5.33	<=20.97	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;



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	0.990	0.955	≥ 0.955	Pass
π/4DQPSK	SISO	HOPP	2DH5	1.006	1.326	≥ 0.884	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.301	≥ 0.867	Pass

