

1. Bandwidth

1.1 Test Result

1.1.1 OBW

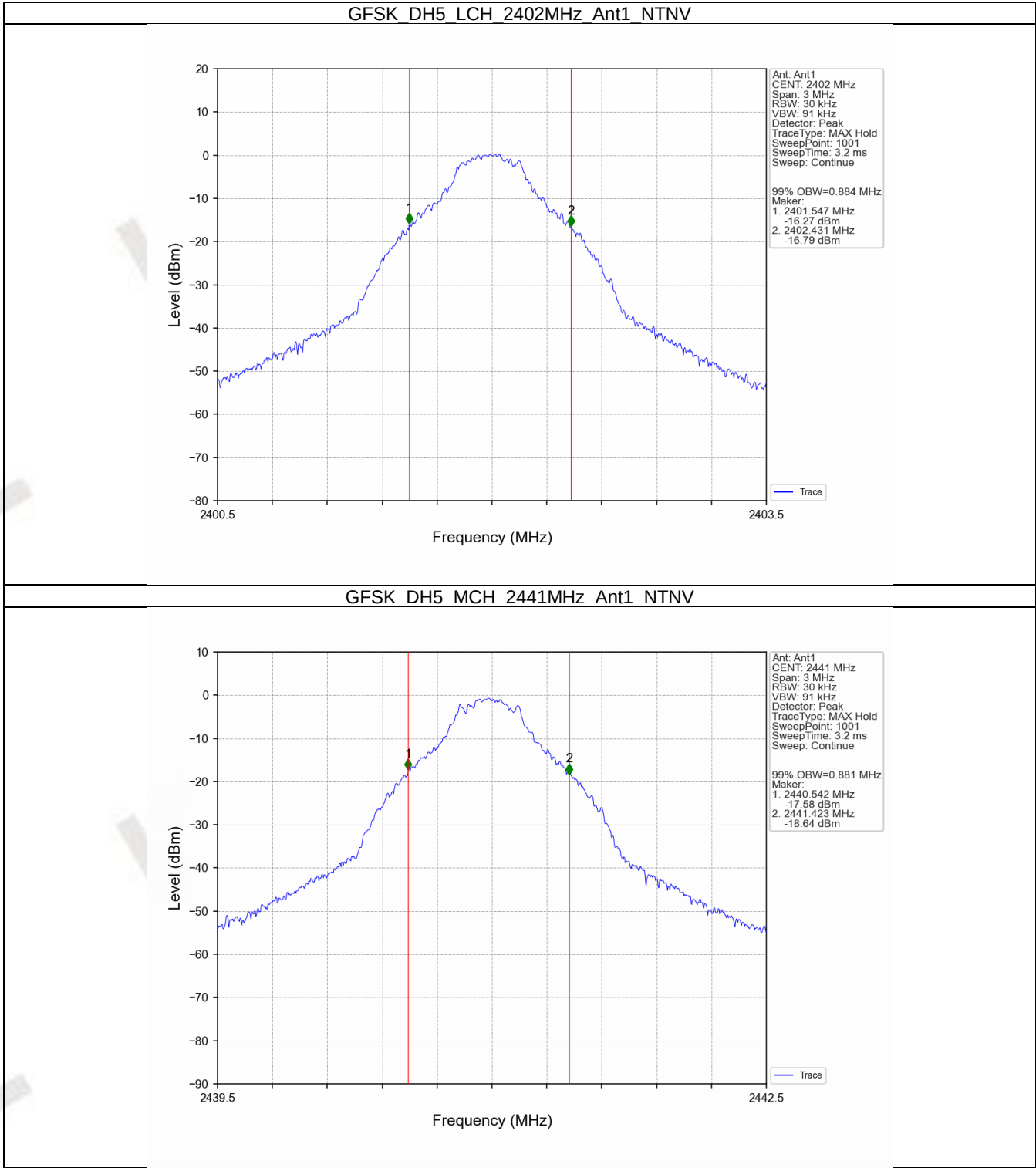
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.884	/	Pass
		2441	DH5	1	0.881	/	Pass
		2480	DH5	1	0.889	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.188	/	Pass
		2441	2DH5	1	1.187	/	Pass
		2480	2DH5	1	1.190	/	Pass
8DPSK	SISO	2402	3DH5	1	1.186	/	Pass
		2441	3DH5	1	1.188	/	Pass
		2480	3DH5	1	1.189	/	Pass

1.1.2 20dB BW

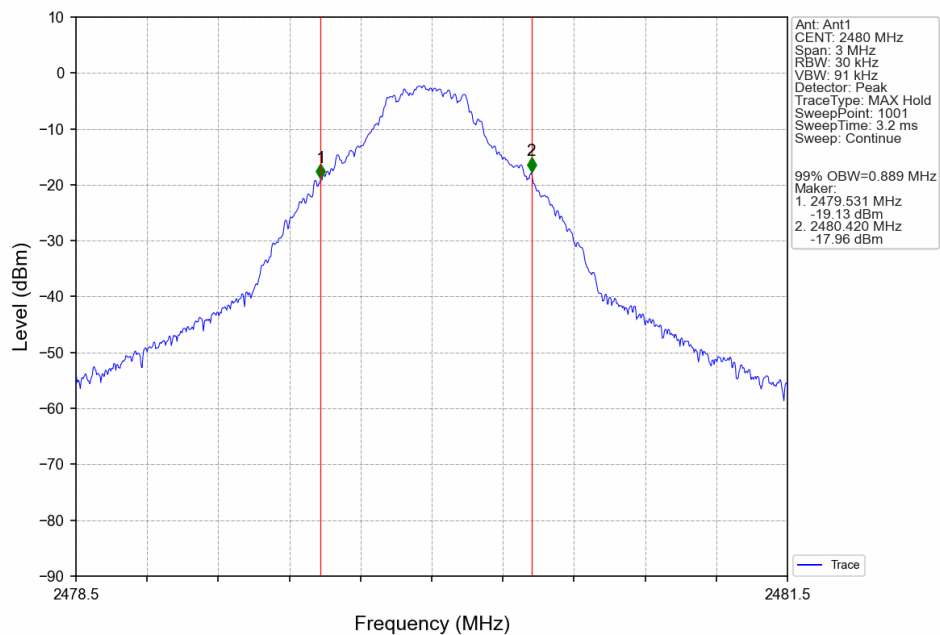
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.995	/	Pass
		2441	DH5	1	0.997	/	Pass
		2480	DH5	1	1.005	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.323	/	Pass
		2441	2DH5	1	1.318	/	Pass
		2480	2DH5	1	1.314	/	Pass
8DPSK	SISO	2402	3DH5	1	1.300	/	Pass
		2441	3DH5	1	1.318	/	Pass
		2480	3DH5	1	1.318	/	Pass

1.2 Test Graph

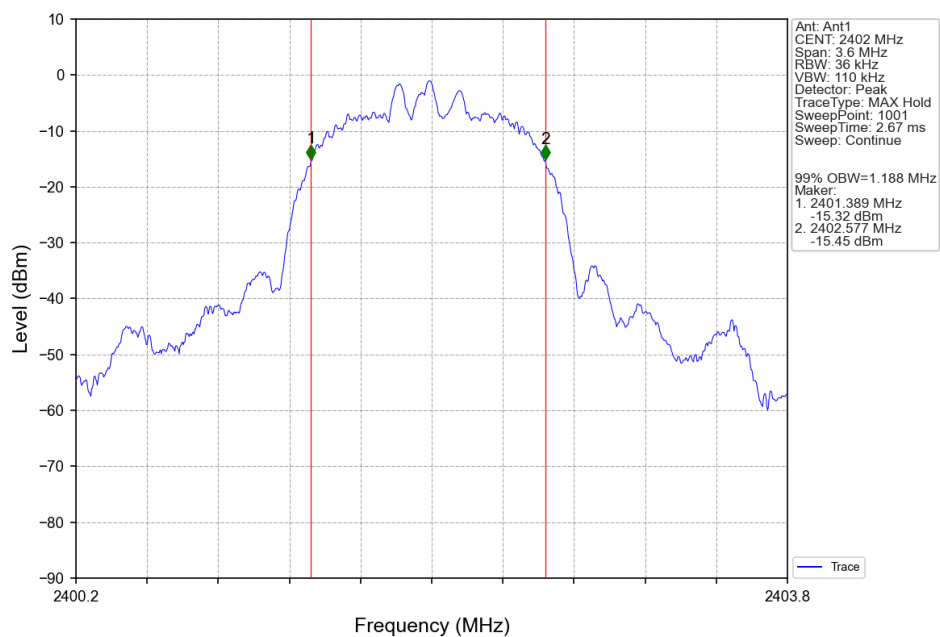
1.2.1 OBW



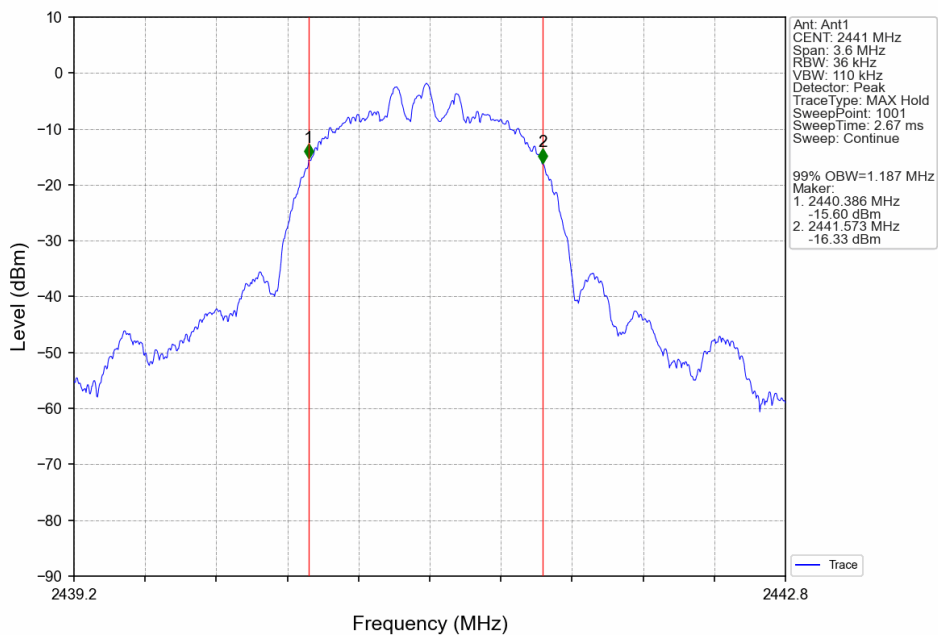
GFSK DH5 HCH 2480MHz Ant1 NTNV



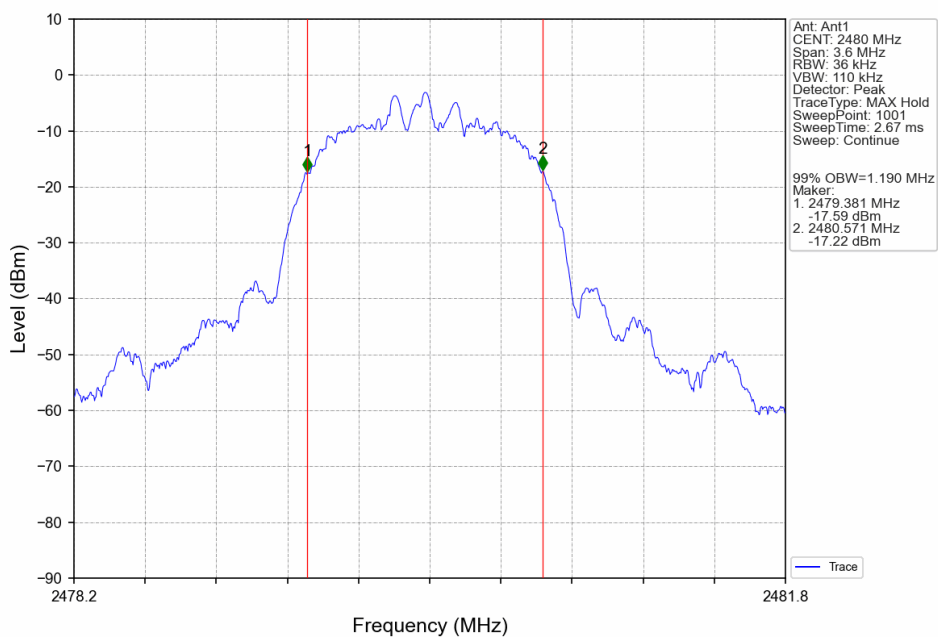
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



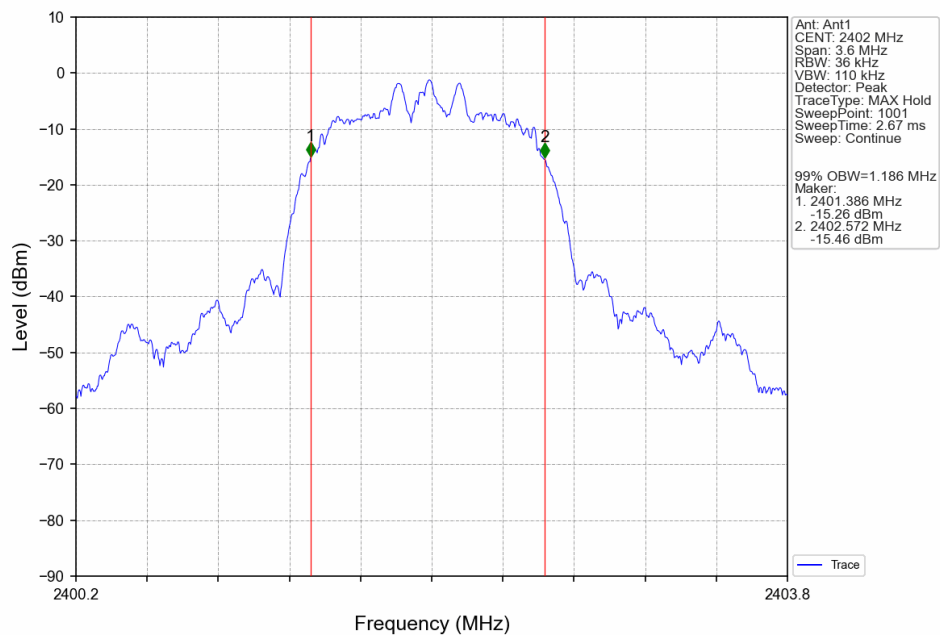
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



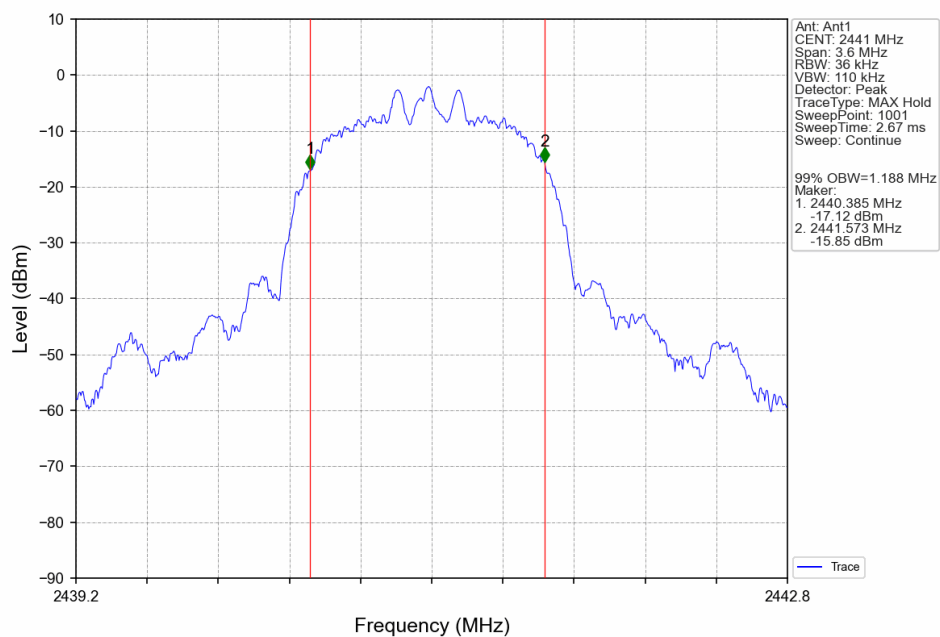
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV

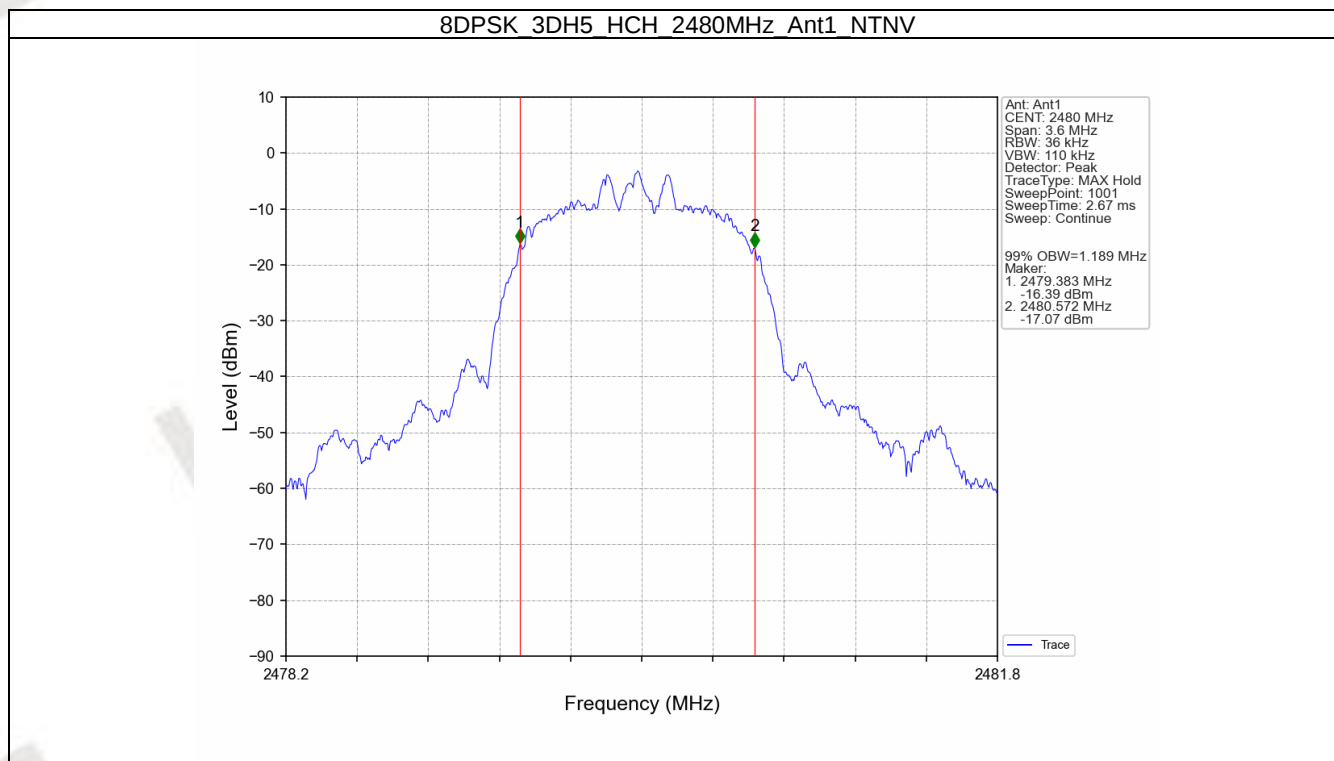


8DPSK 3DH5 LCH 2402MHz Ant1 NTV

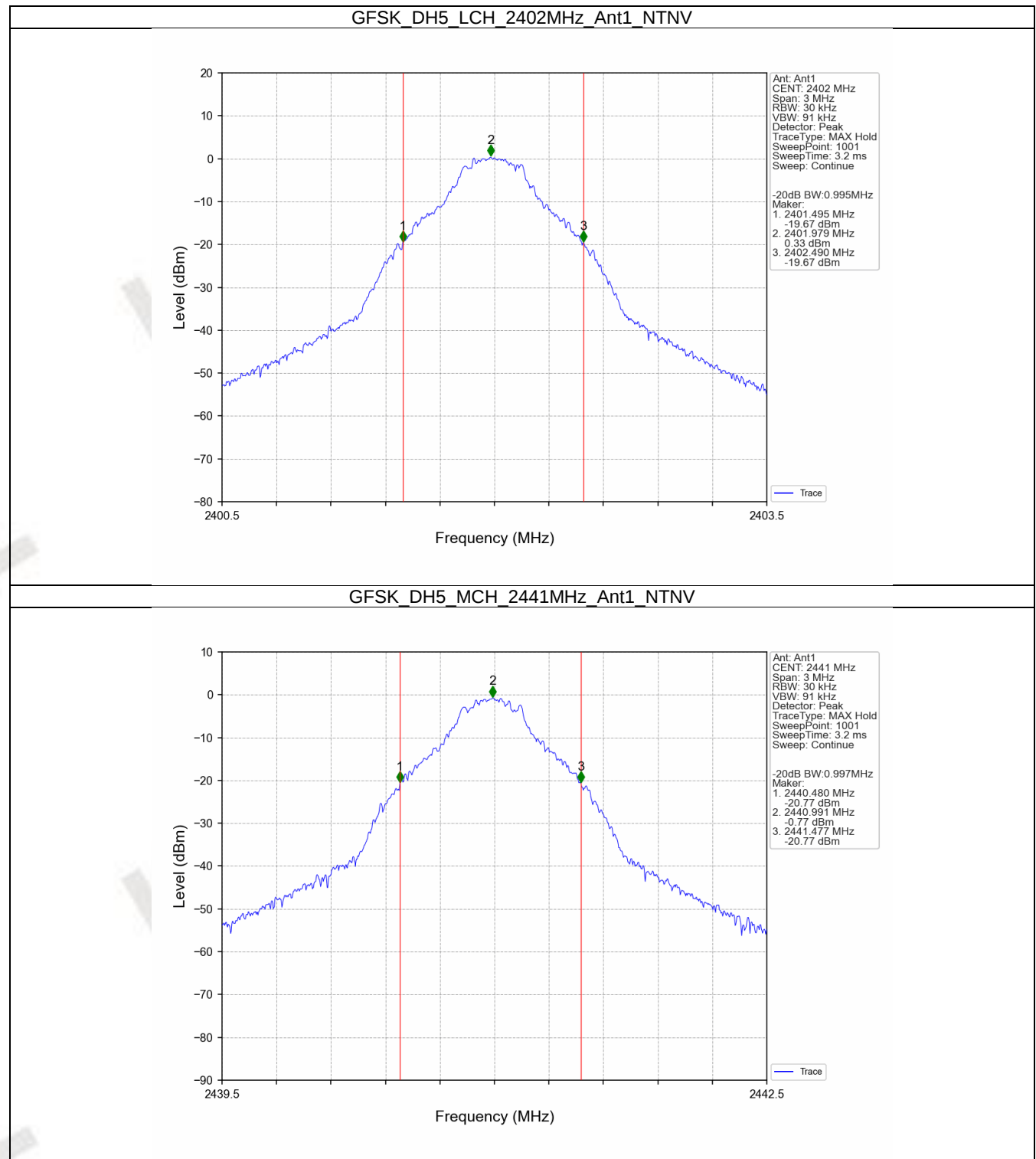


8DPSK 3DH5 MCH 2441MHz Ant1 NTV

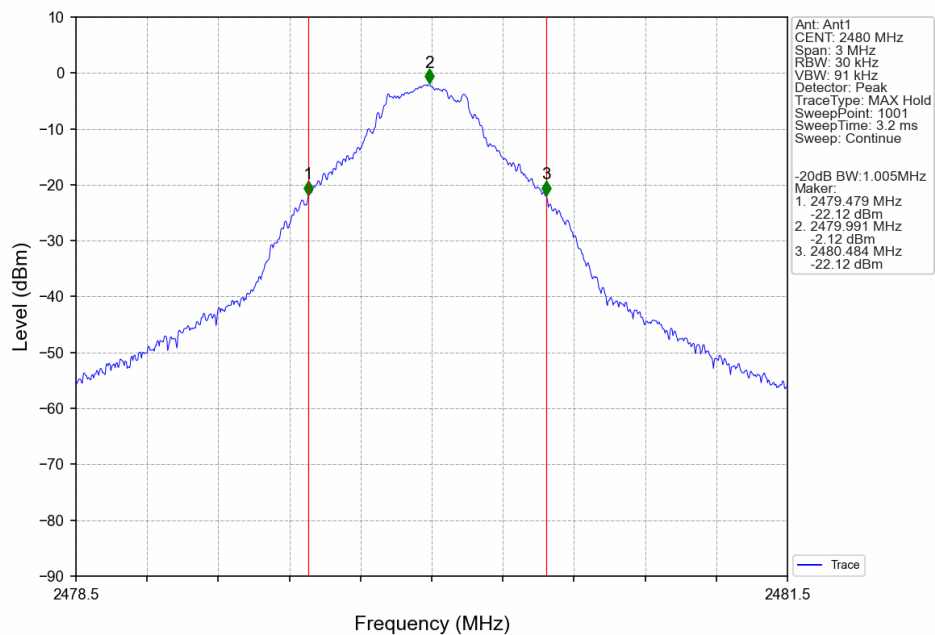




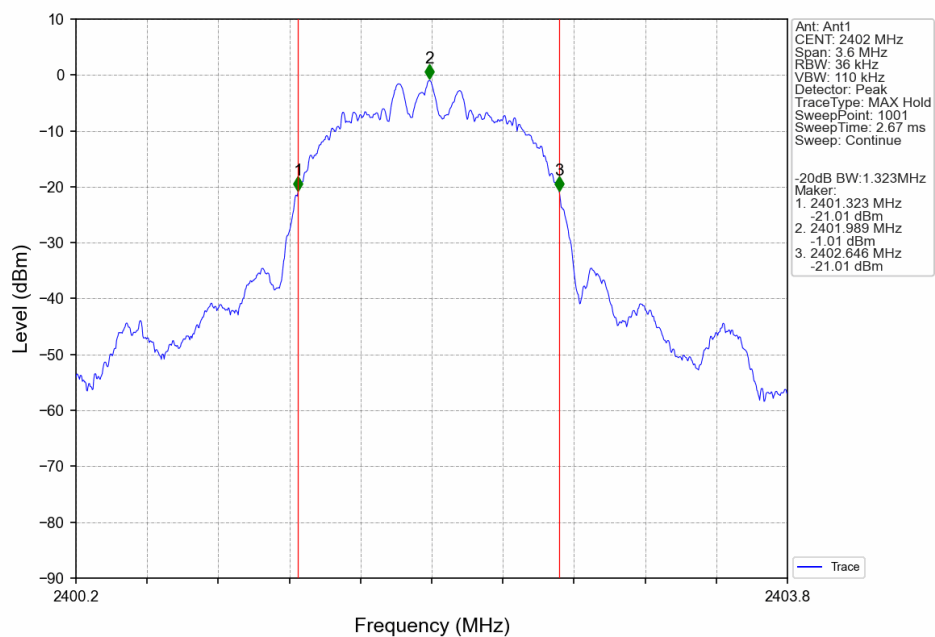
1.2.2 20dB BW



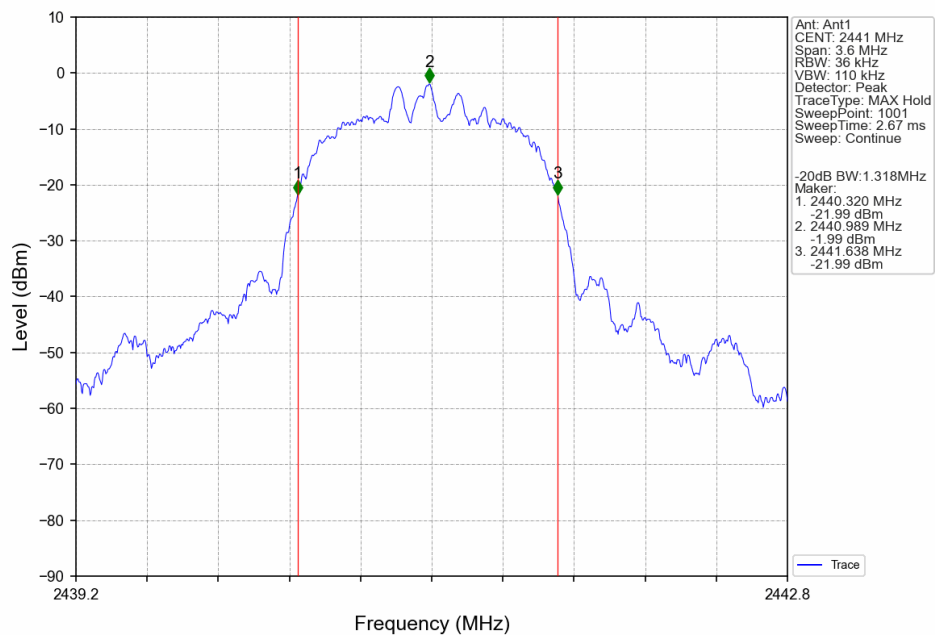
GFSK DH5 HCH 2480MHz Ant1 NTN



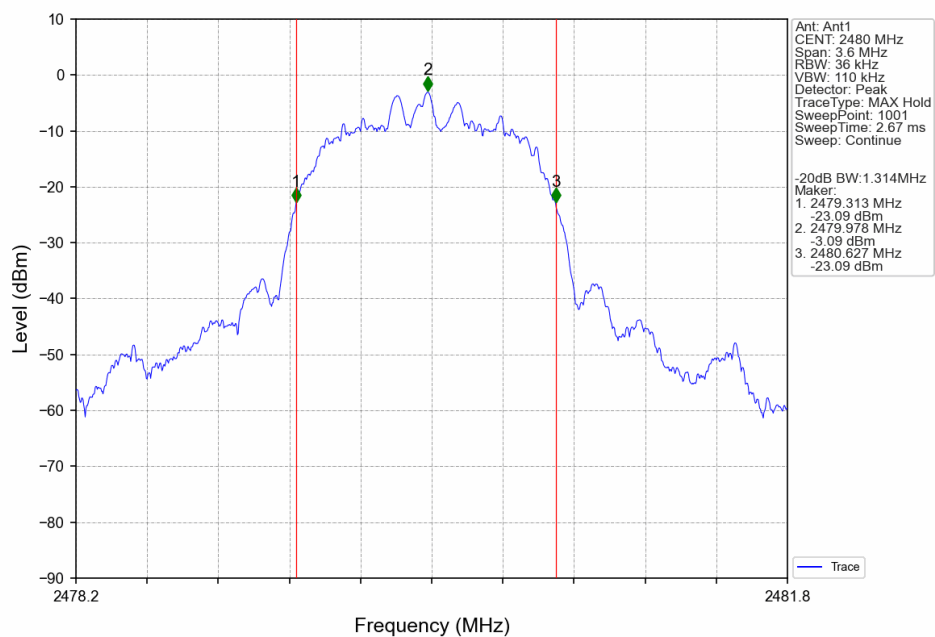
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



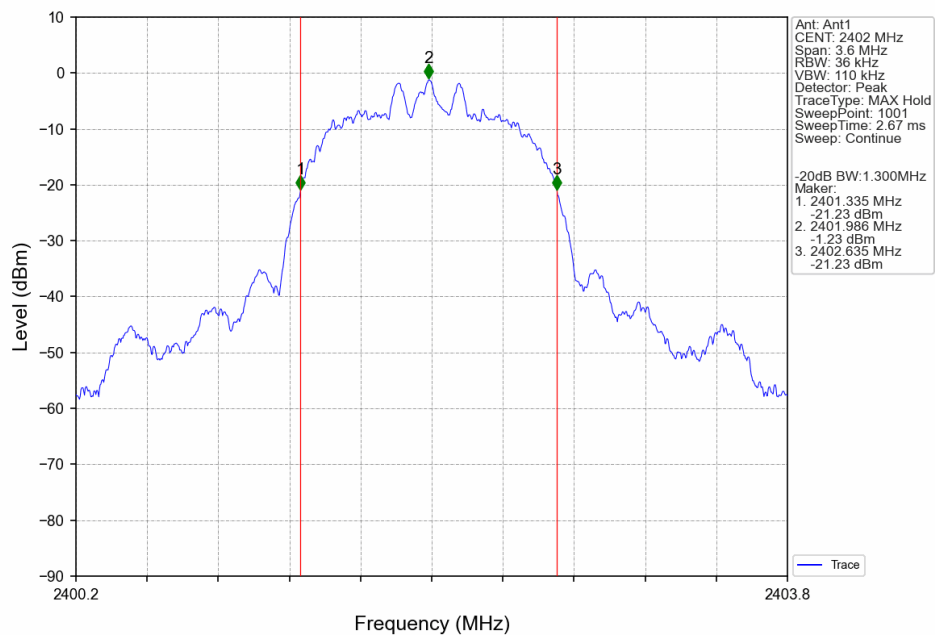
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



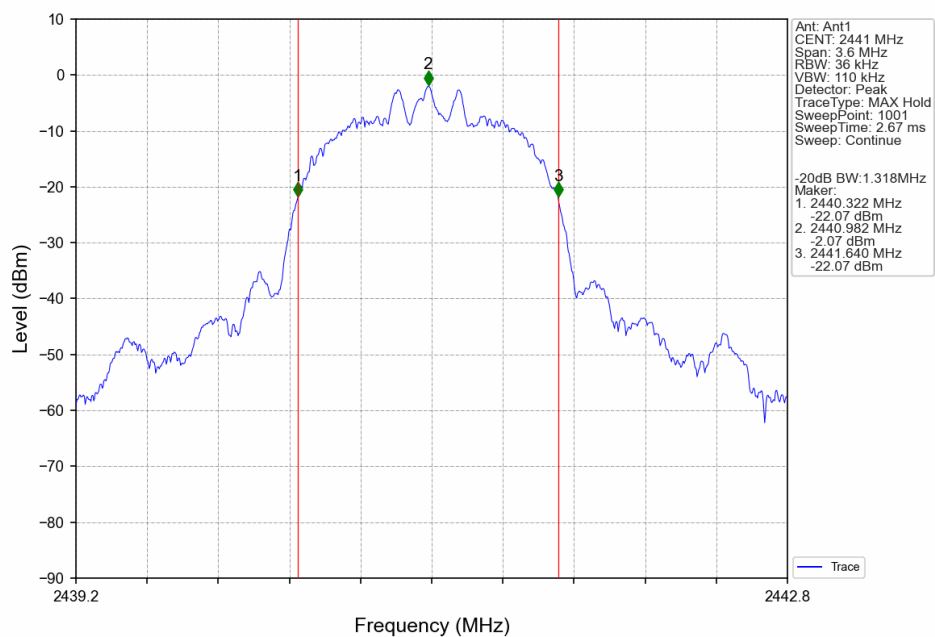
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV

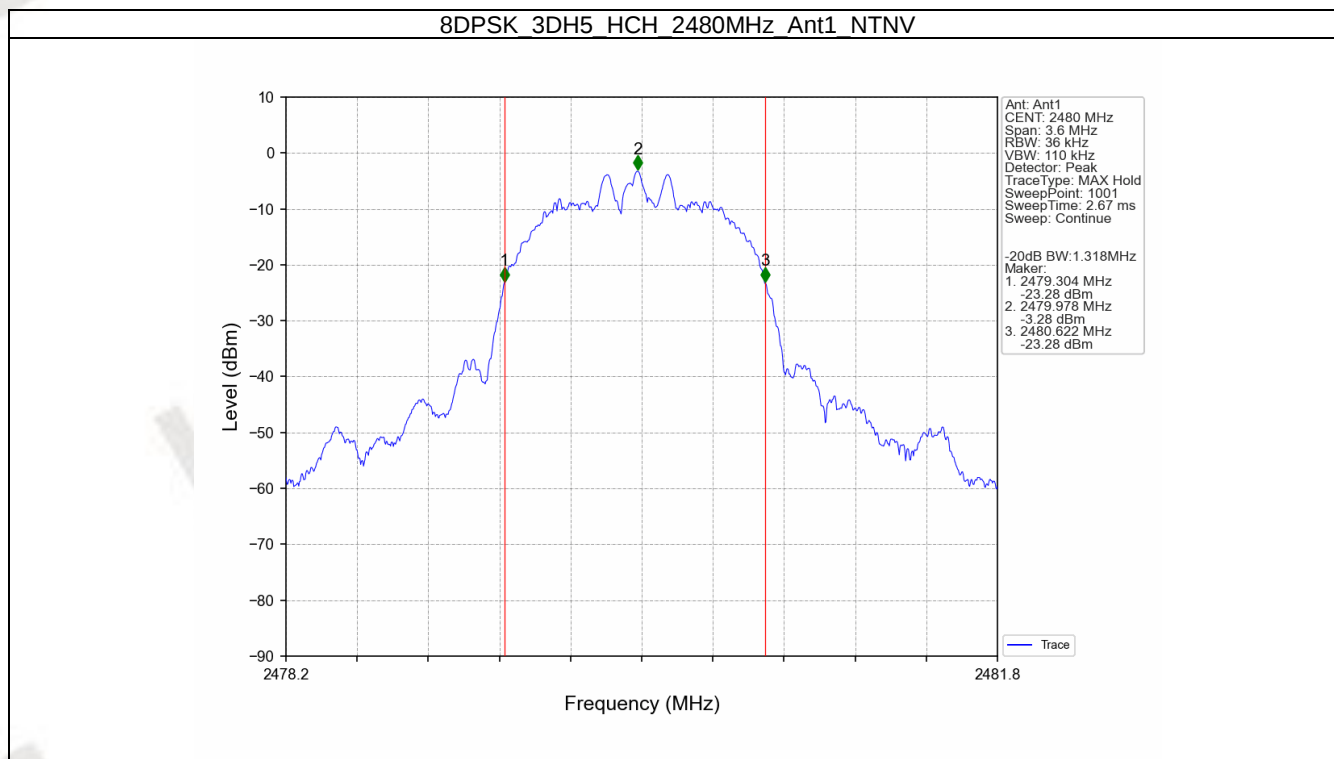


8DPSK 3DH5 LCH 2402MHz Ant1 NTV



8DPSK 3DH5 MCH 2441MHz Ant1 NTV





2. Maximum Conducted Output Power

2.1 Test Result

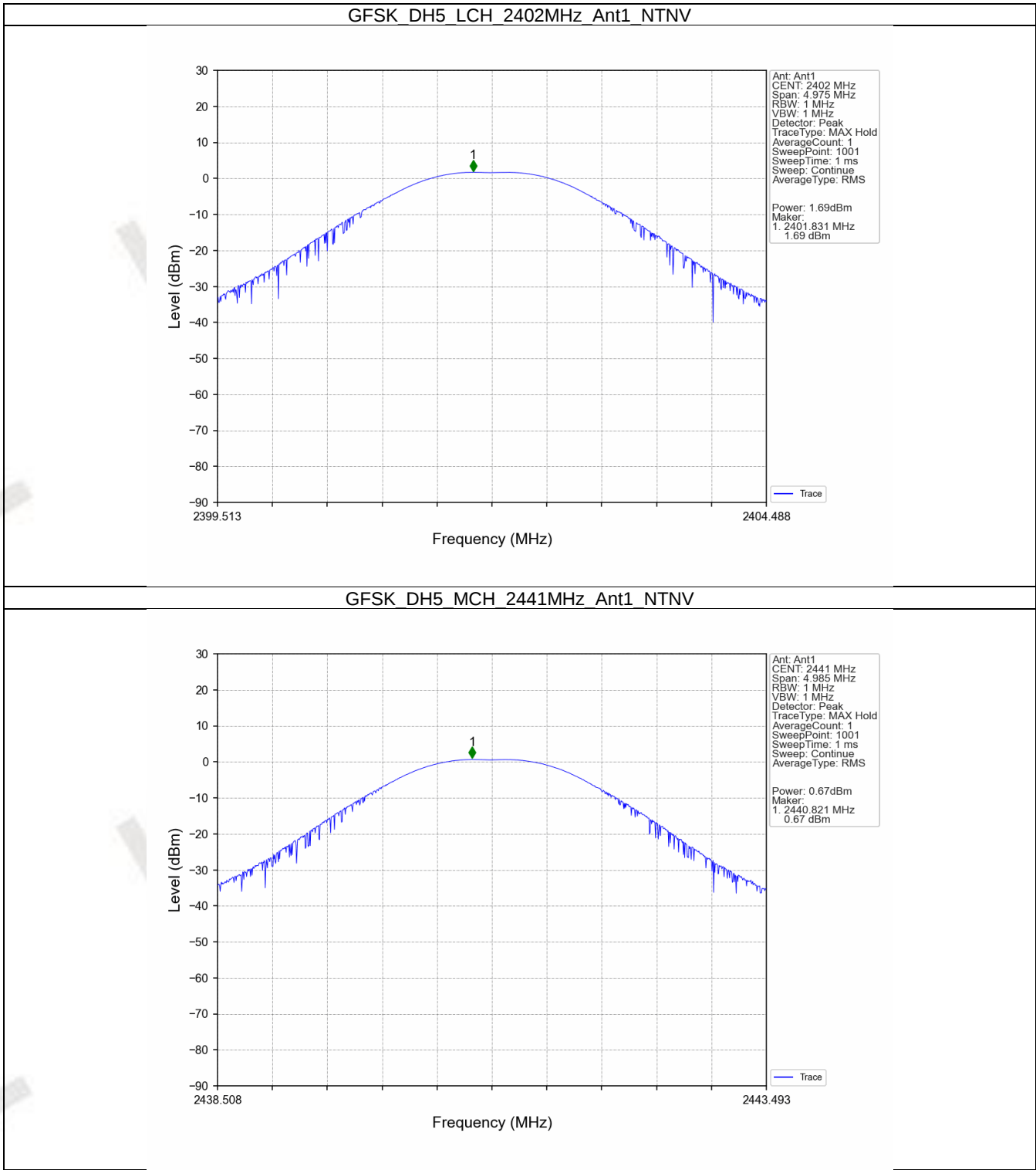
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.69	<=30	Pass
		2441	DH5	0.67	<=30	Pass
		2480	DH5	-0.71	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	0.86	<=20.97	Pass
		2441	2DH5	0.01	<=20.97	Pass
		2480	2DH5	-1.25	<=20.97	Pass
8DPSK	SISO	2402	3DH5	0.96	<=20.97	Pass
		2441	3DH5	0.13	<=20.97	Pass
		2480	3DH5	-1.07	<=20.97	Pass

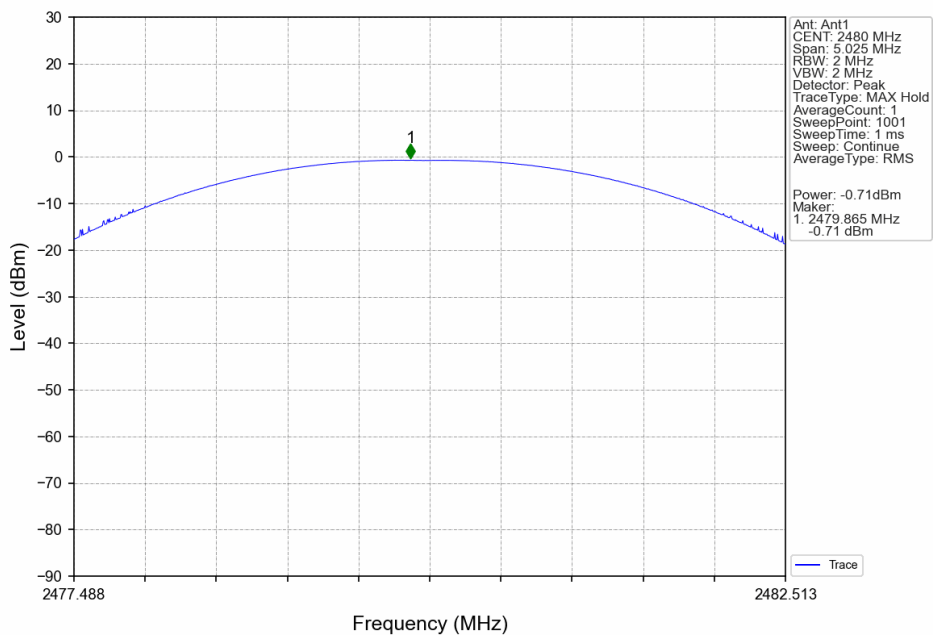
Note1: Antenna Gain: Ant1: 3.38dBi;

2.2 Test Graph

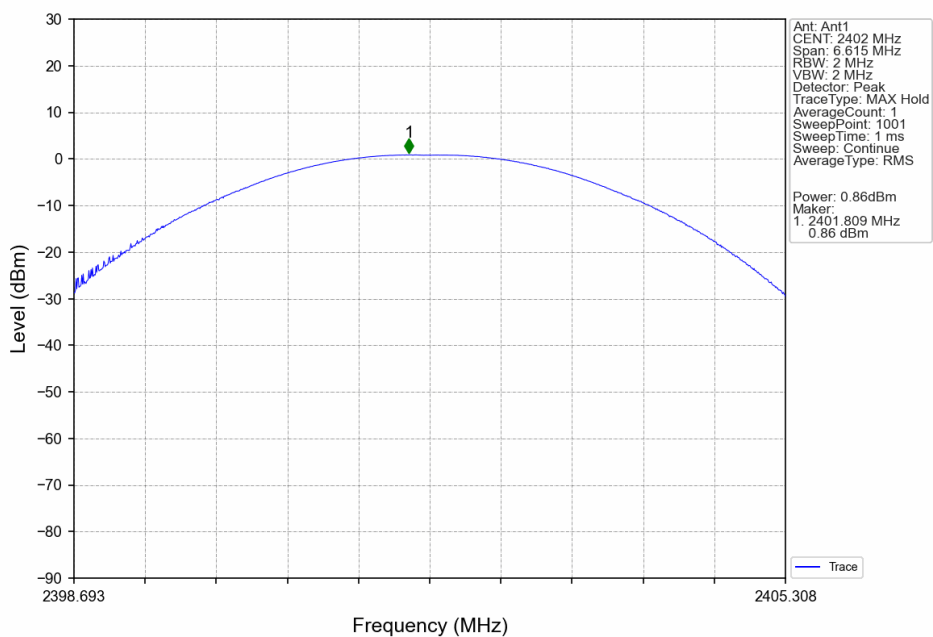
2.2.1 Power



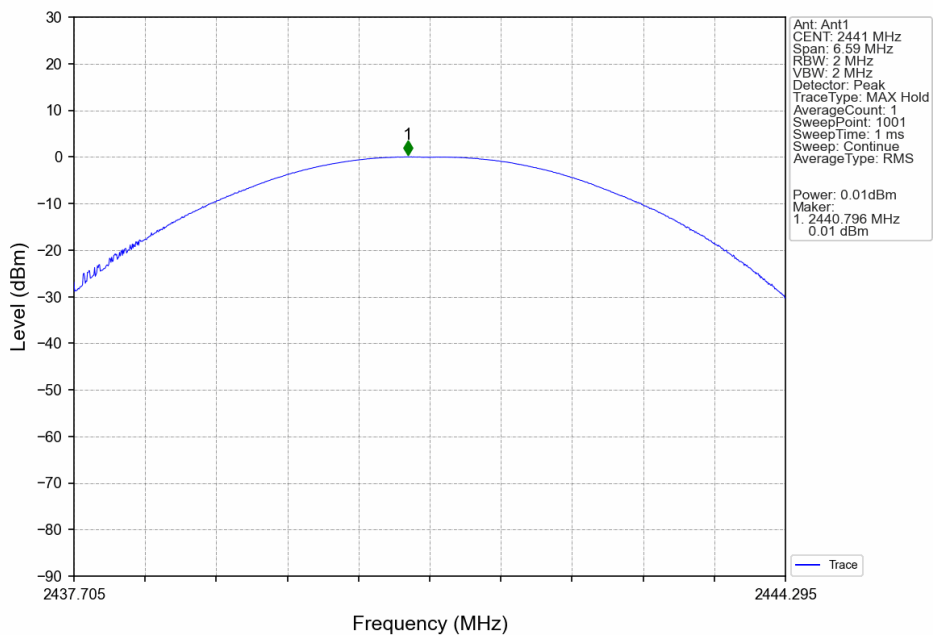
GFSK DH5 HCH 2480MHz Ant1 NTN



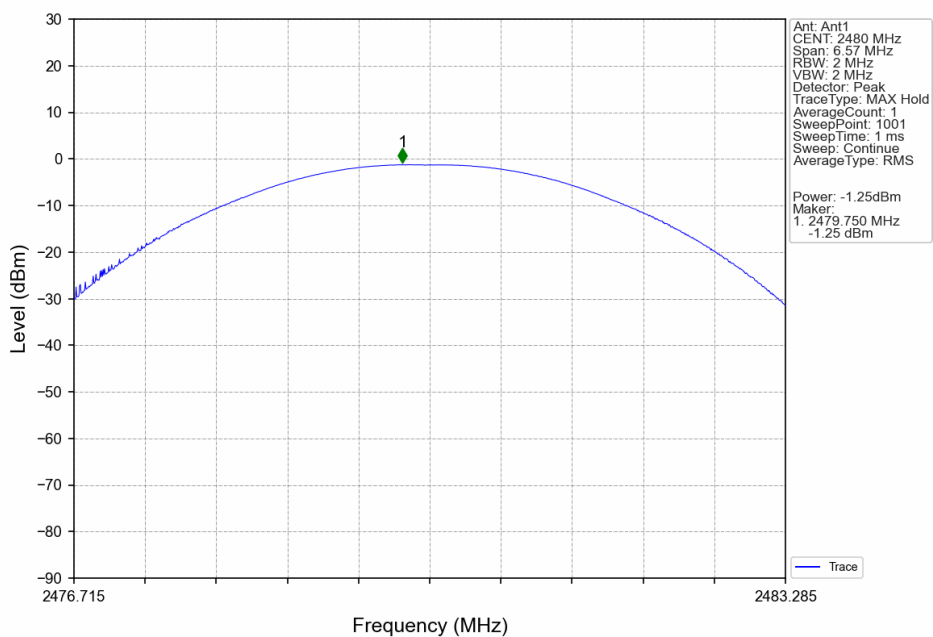
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN

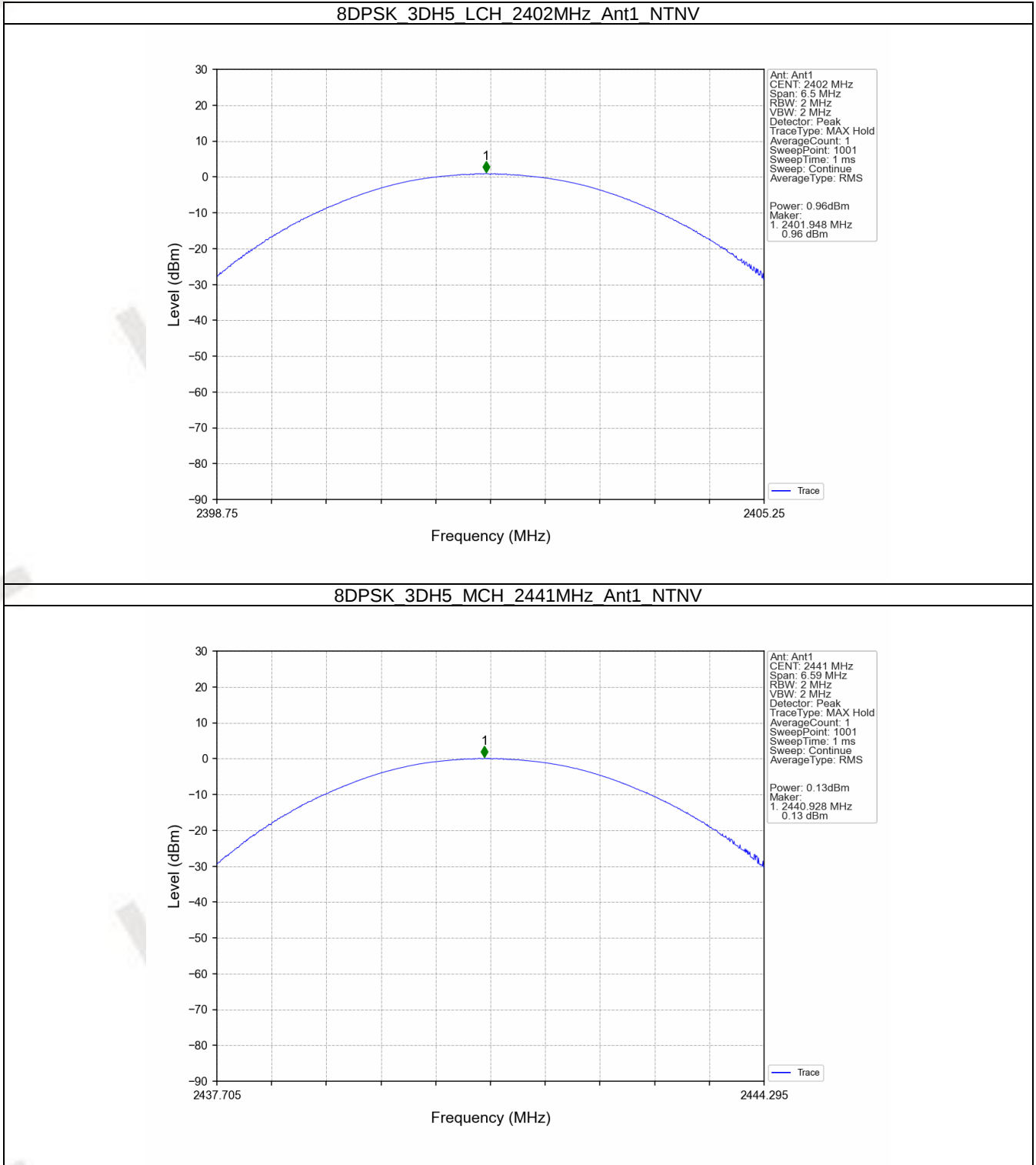


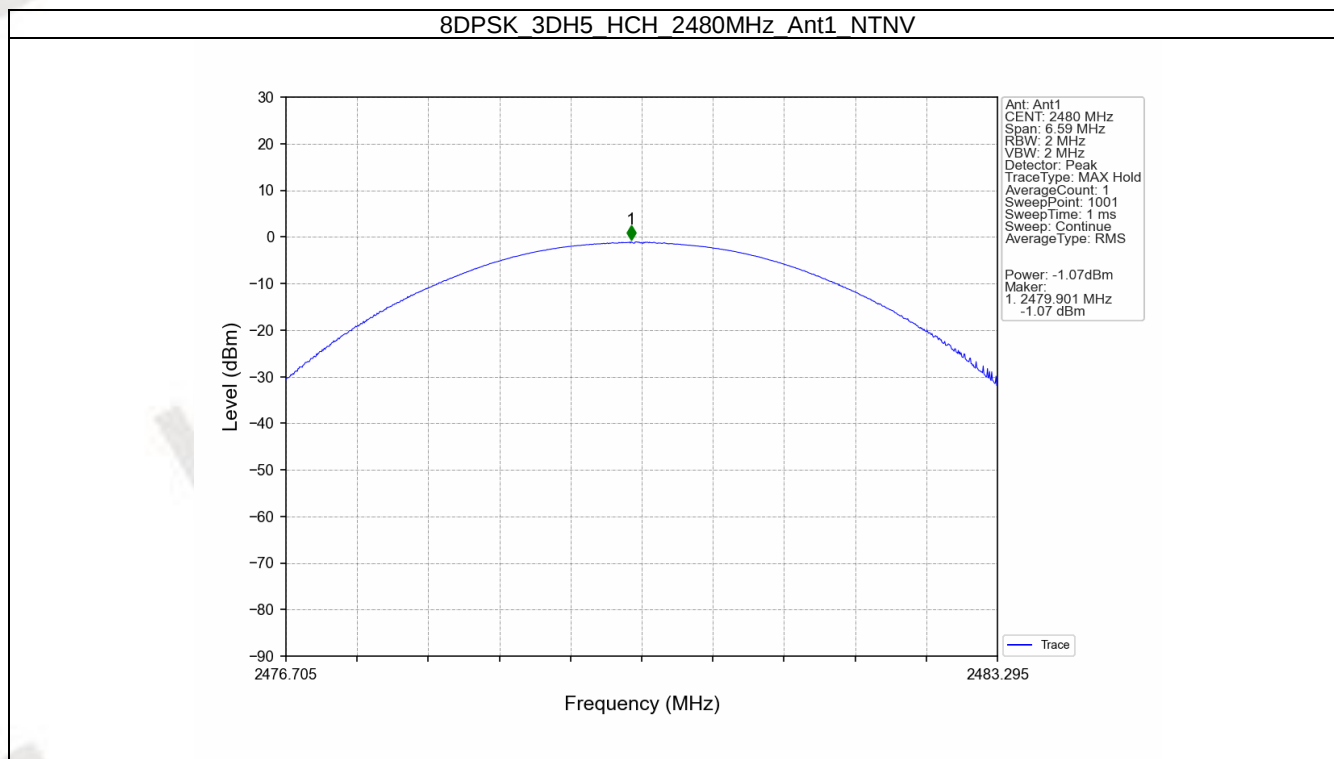
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV







3. Carrier Frequency Separation

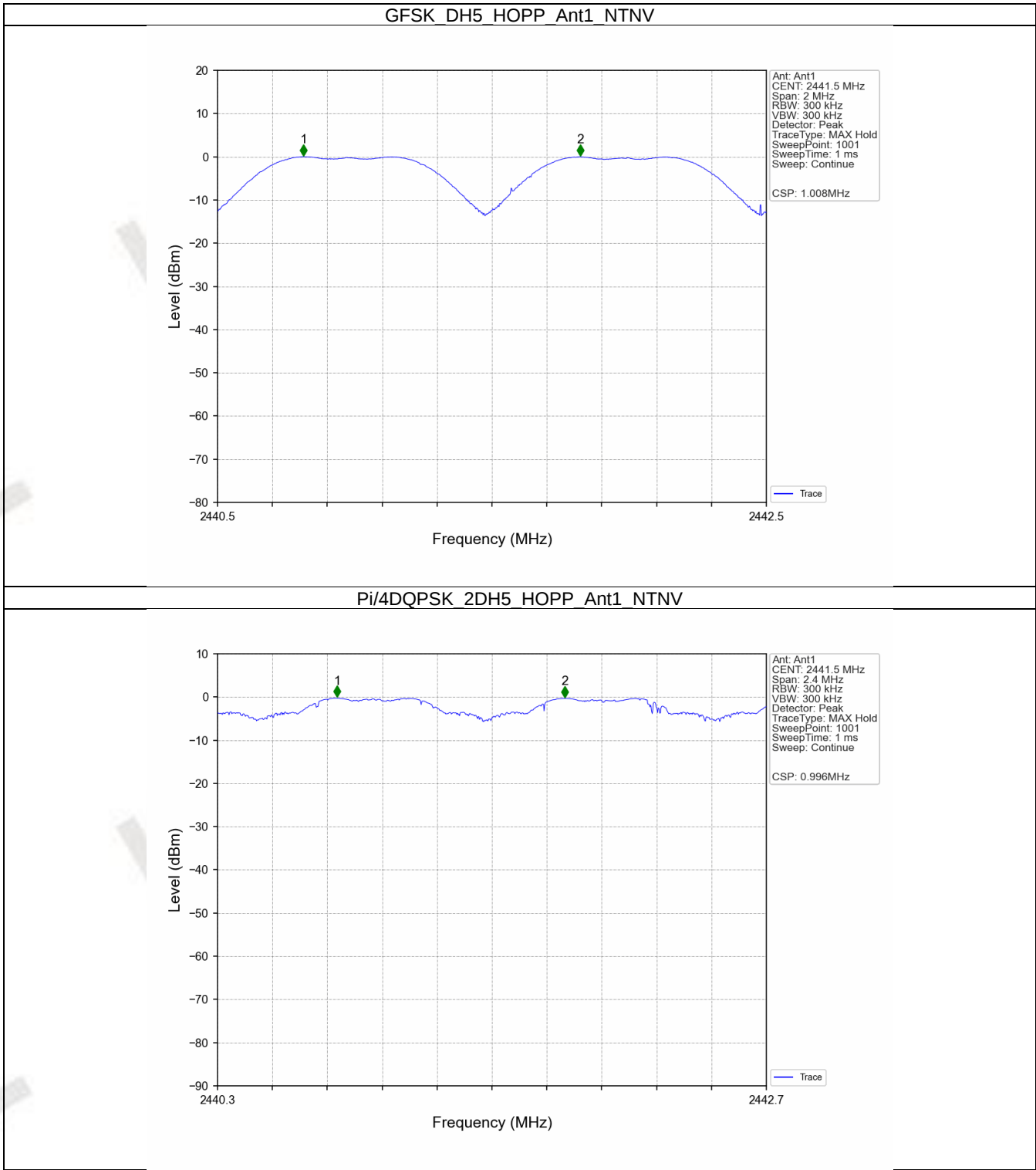
3.1 Test Result

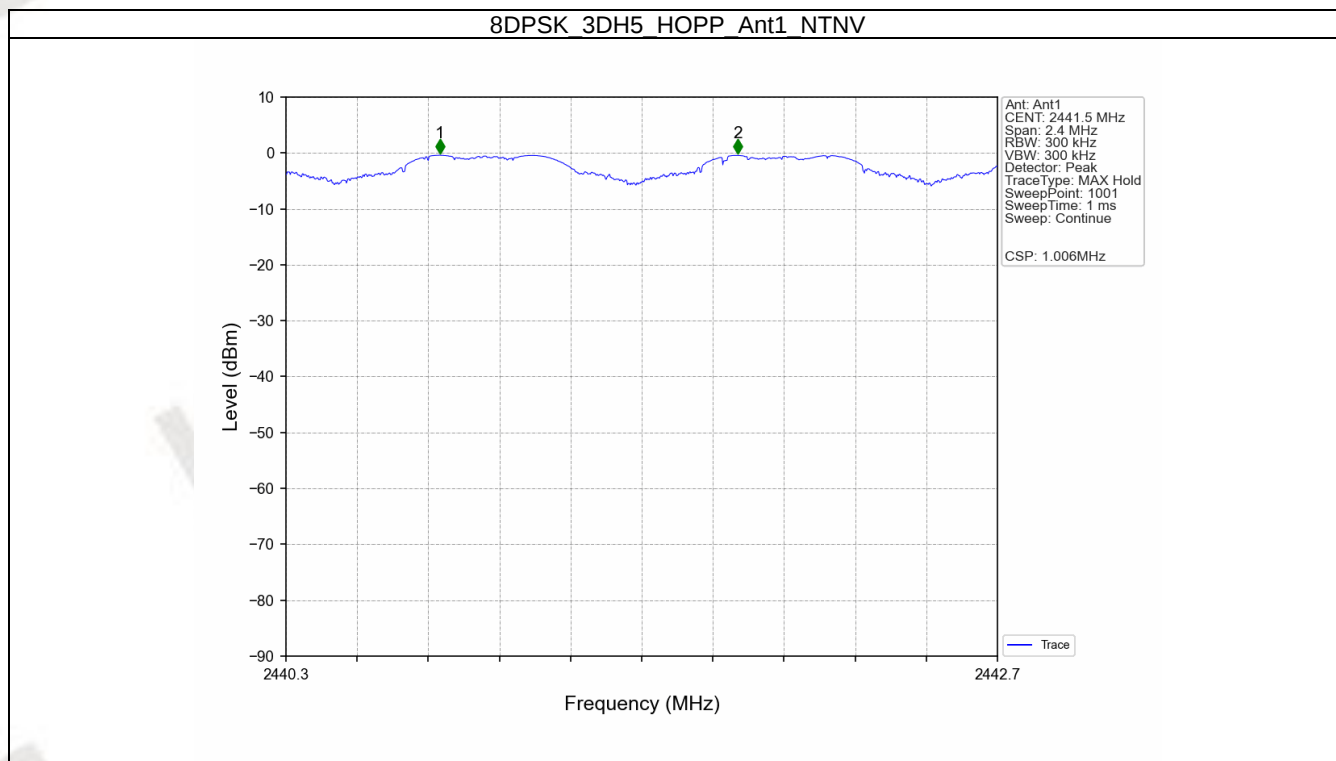
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.008	1.005	≥ 1.005	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.323	≥ 0.882	Pass
8DPSK	SISO	HOPP	3DH5	1.006	1.318	≥ 0.879	Pass

3.2 Test Graph

3.2.1 Ant1





4. Number of Hopping Frequencies

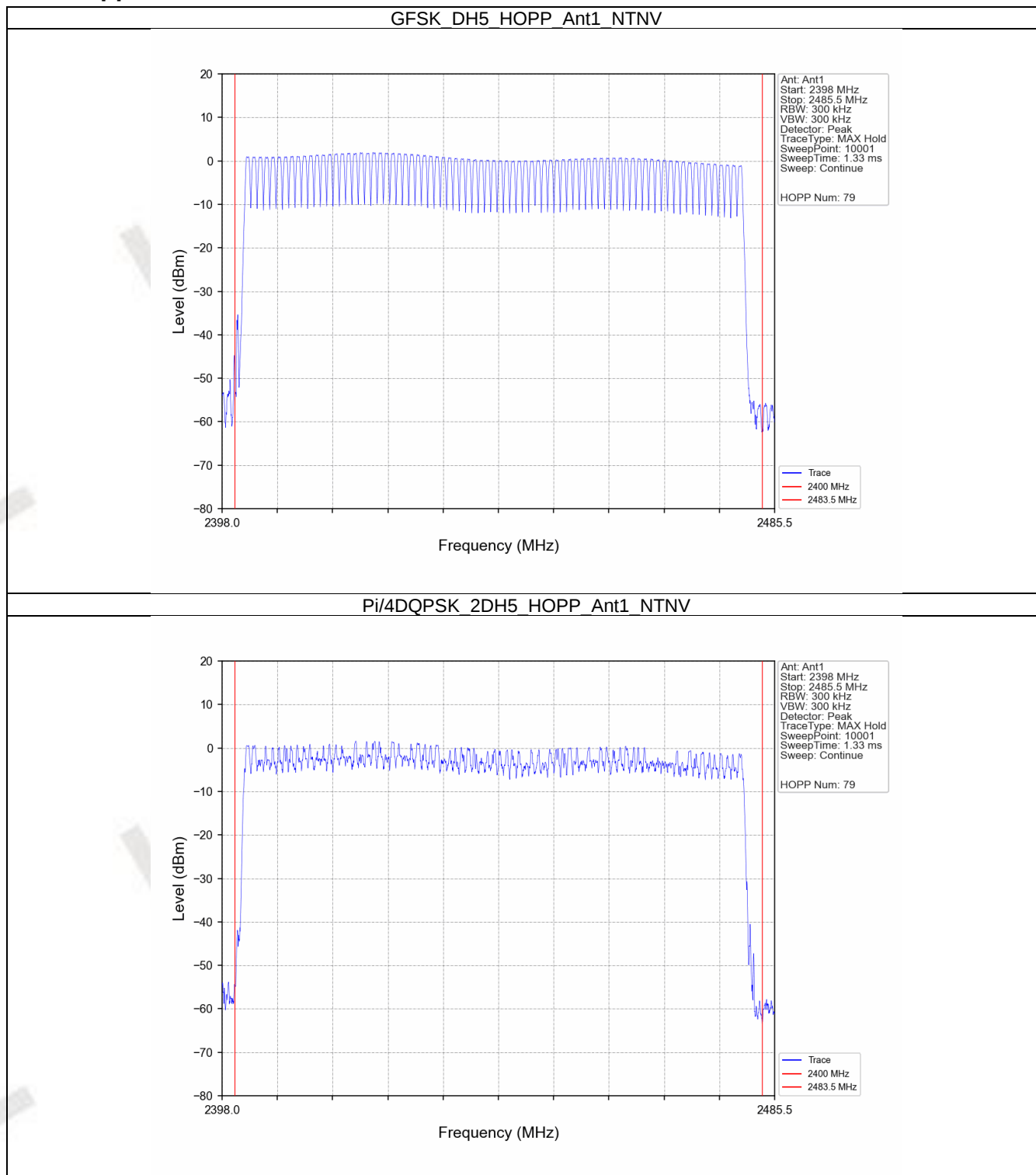
4.1 Test Result

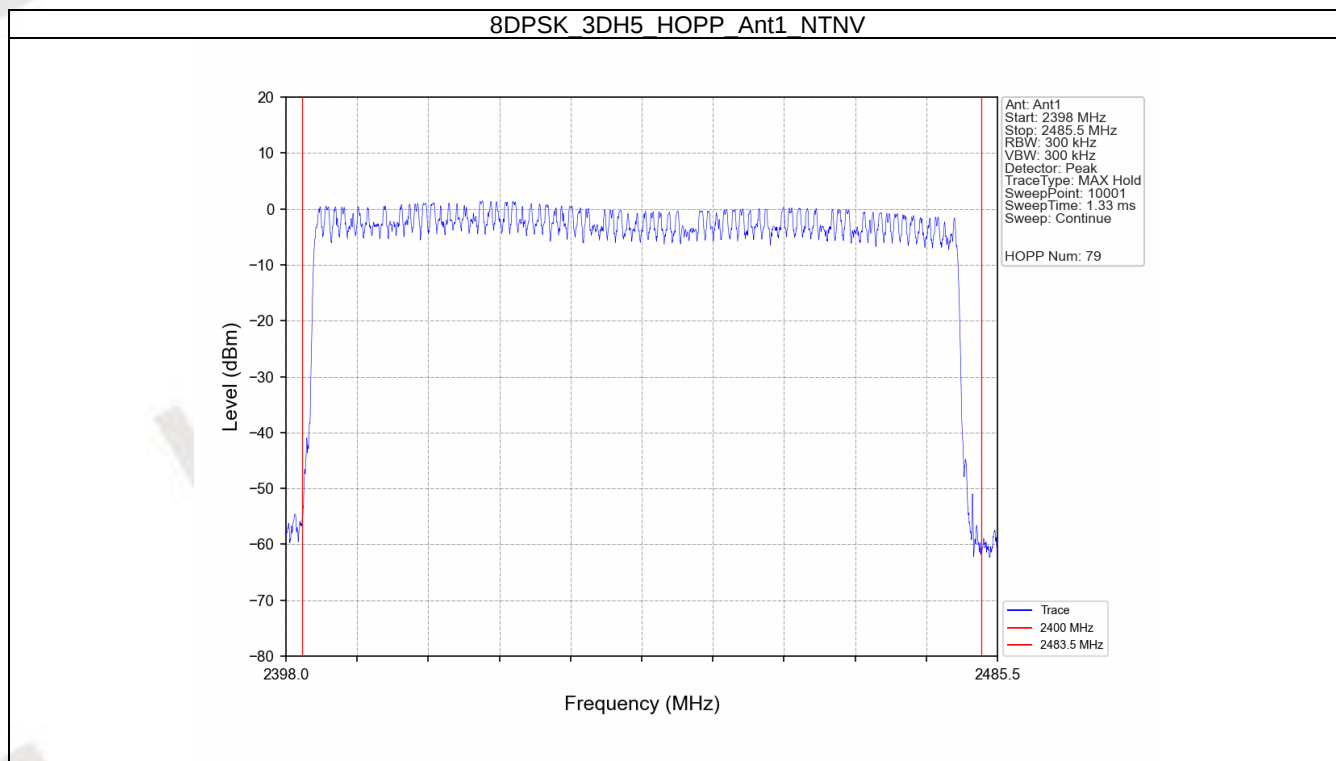
4.1.1 HoppNum

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

4.2 Test Graph

4.2.1 HoppNum





5. Time of Occupancy (Dwell Time)

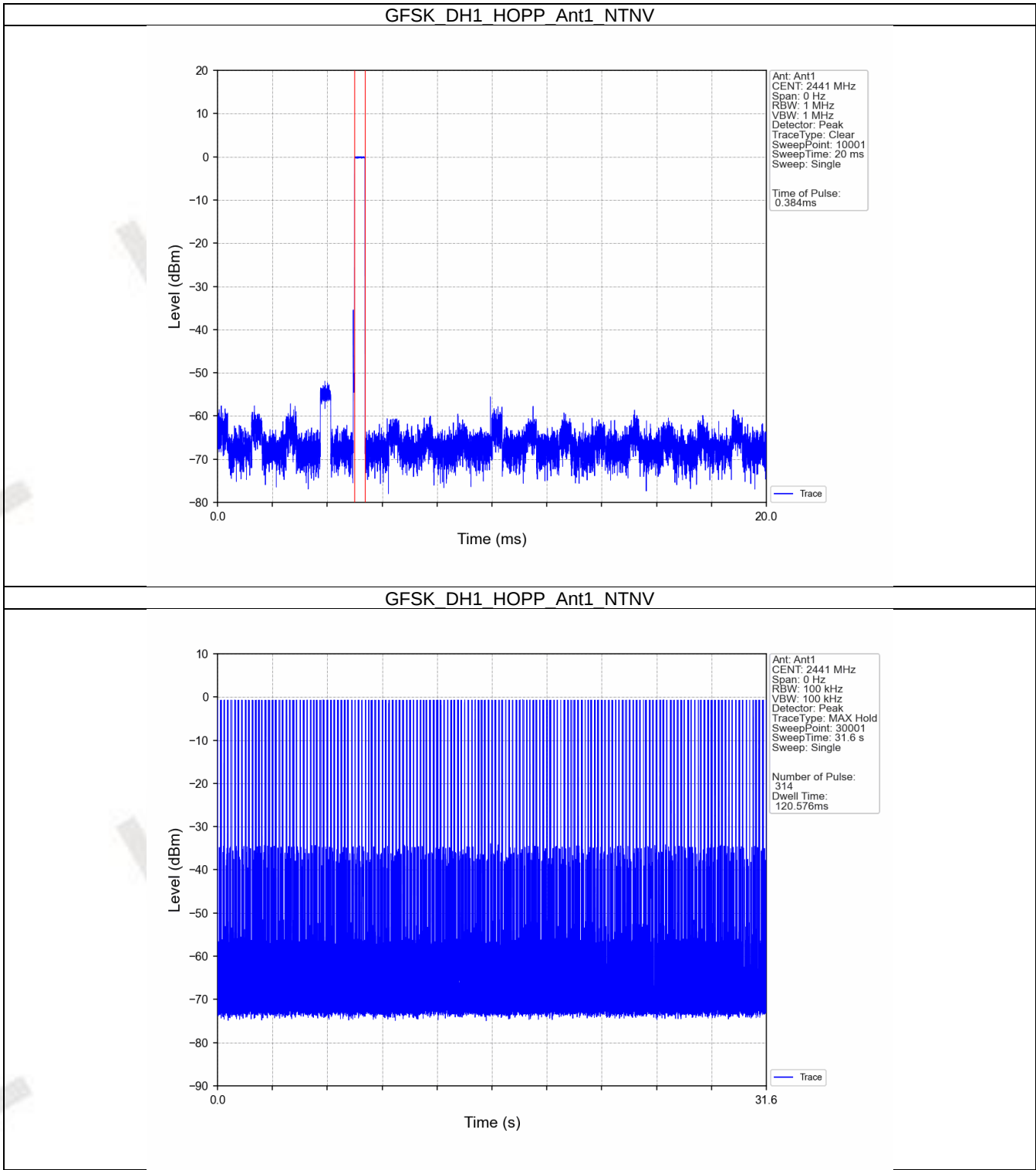
5.1 Test Result

5.1.1 Ant1

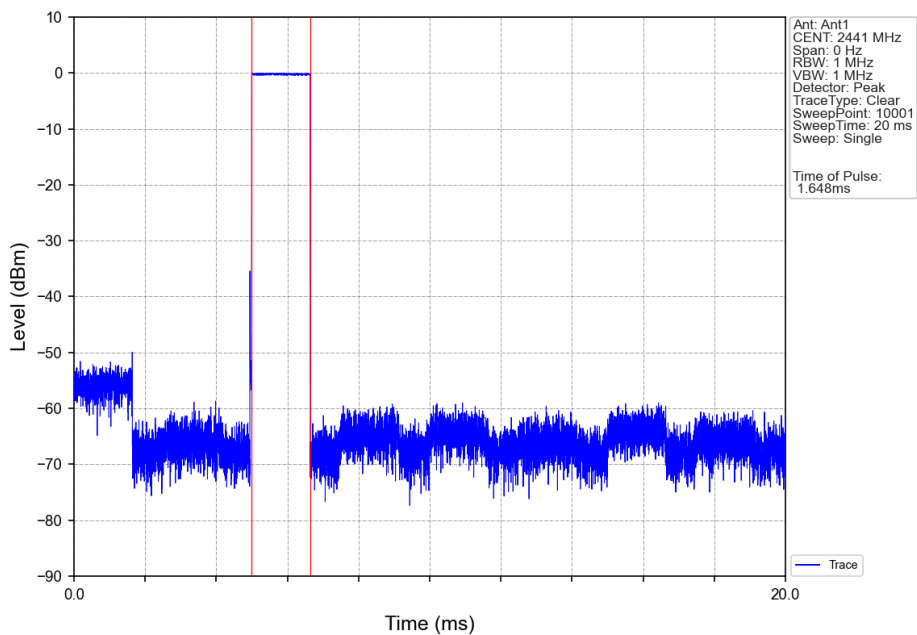
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	314	120.576	<=400	Pass
			DH3	1.648	31.600	172	283.456	<=400	Pass
			DH5	2.946	31.600	102	300.492	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	314	123.088	<=400	Pass
			2DH3	1.642	31.600	174	285.708	<=400	Pass
			2DH5	2.892	31.600	110	318.120	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	314	123.088	<=400	Pass
			3DH3	1.642	31.600	173	284.066	<=400	Pass
			3DH5	2.890	31.600	100	289.000	<=400	Pass

5.2 Test Graph

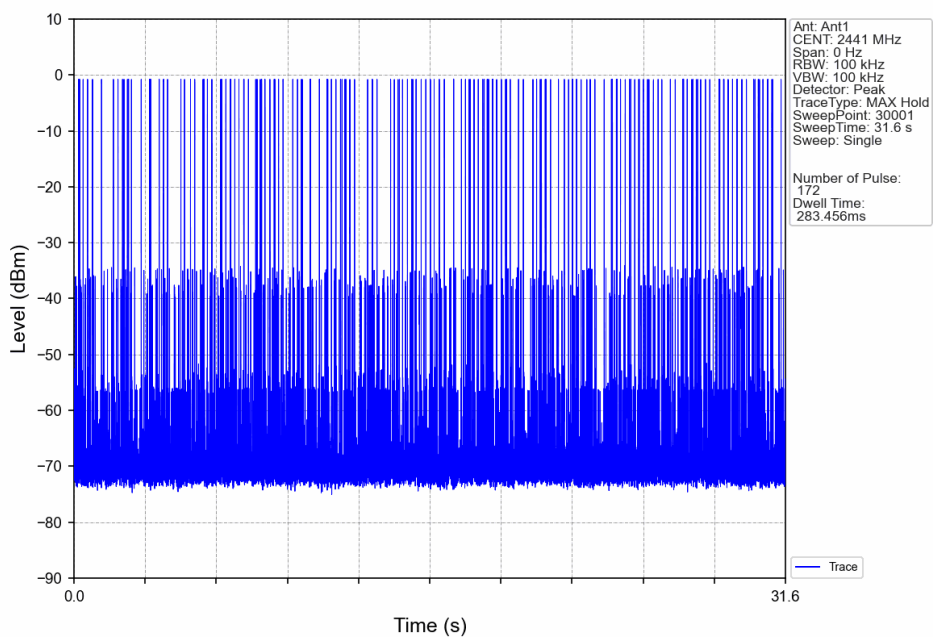
5.2.1 Ant1



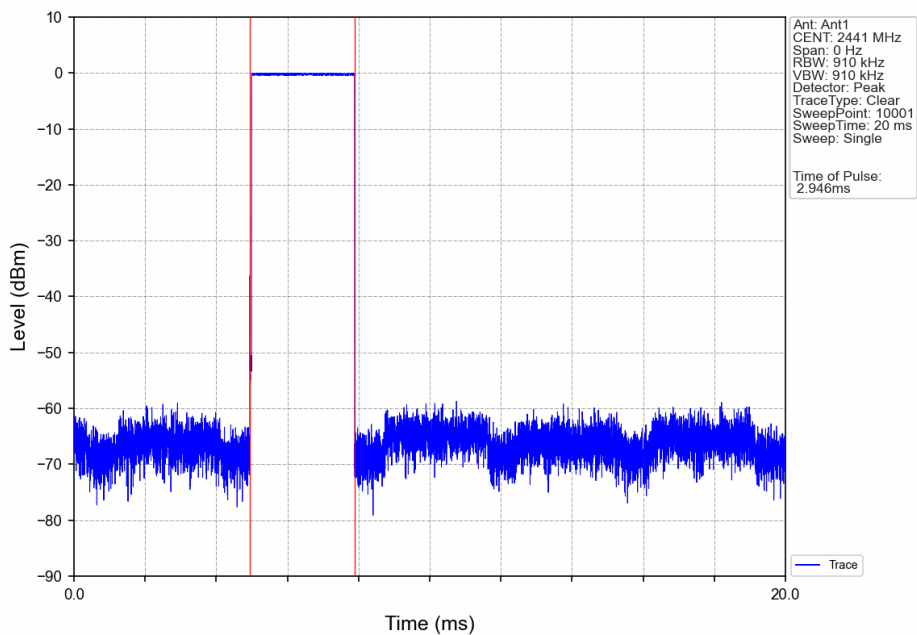
GFSK DH3 HOPP Ant1 NTN



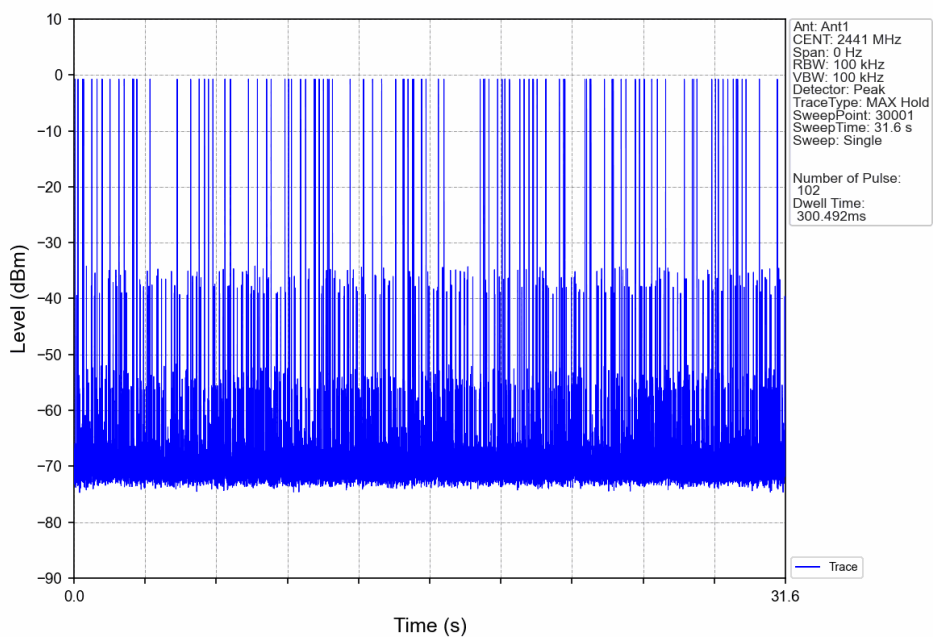
GFSK DH3 HOPP Ant1 NTN



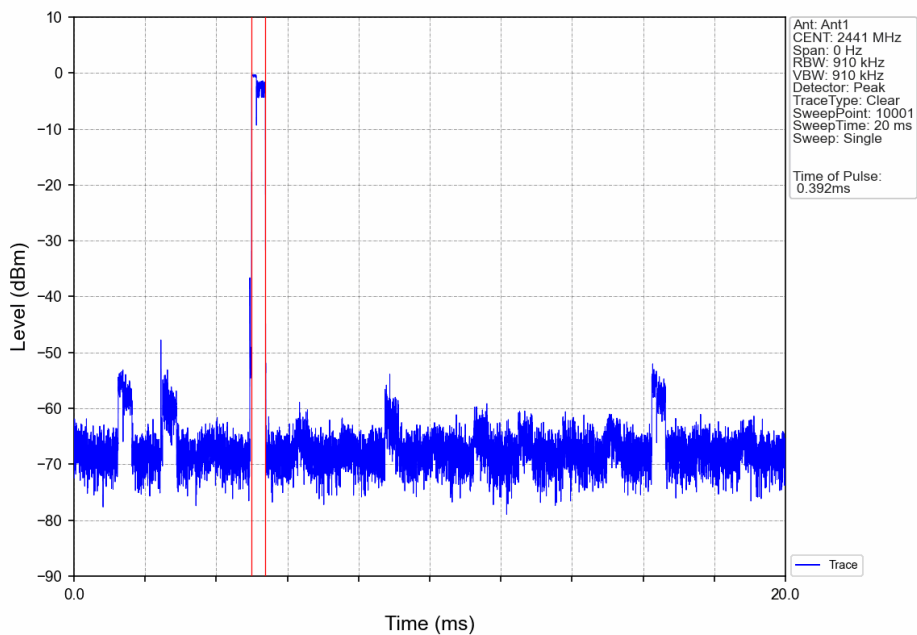
GFSK DH5 HOPP Ant1 NTN



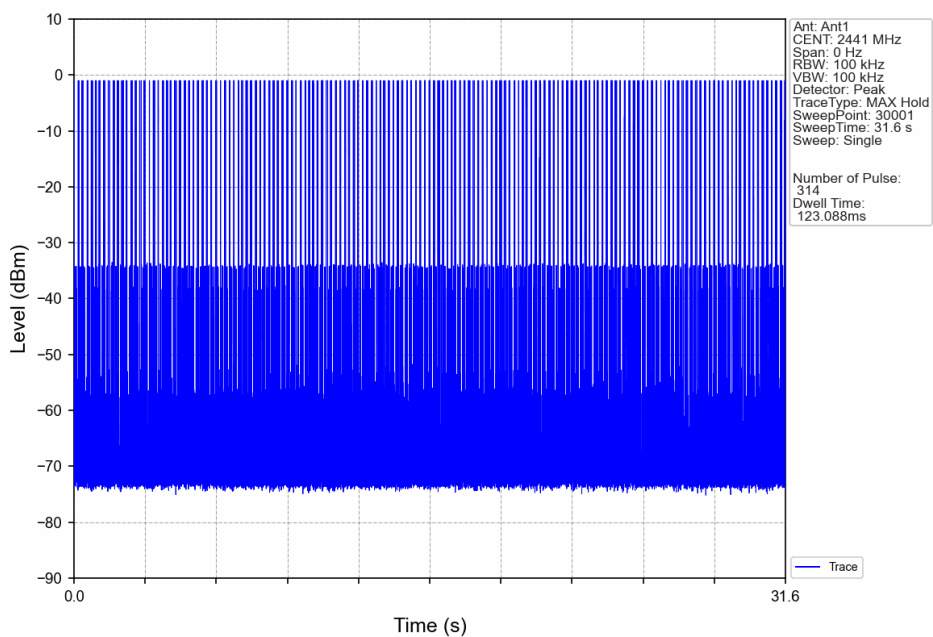
GFSK DH5 HOPP Ant1 NTN



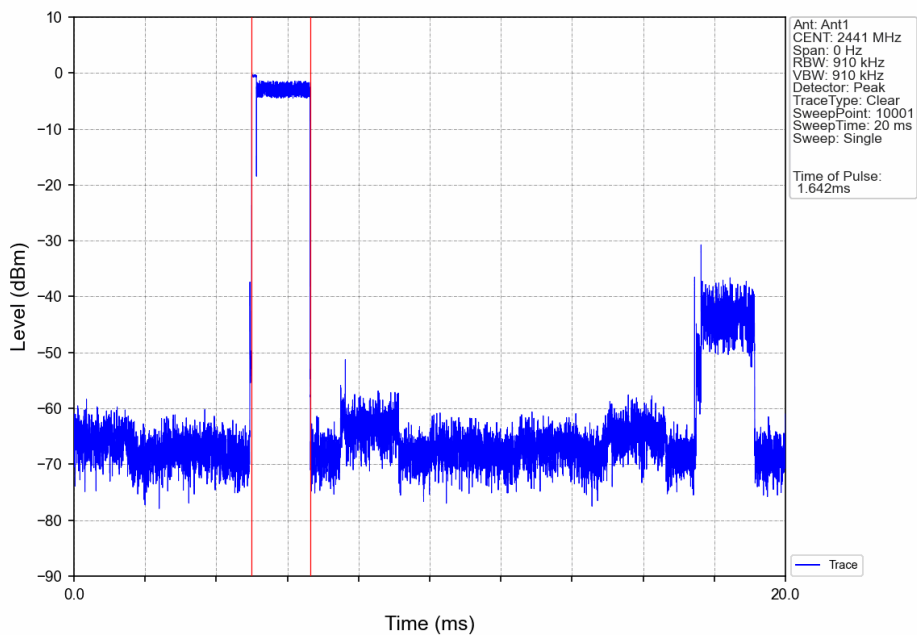
Pi/4DQPSK 2DH1 HOPP Ant1 NTN



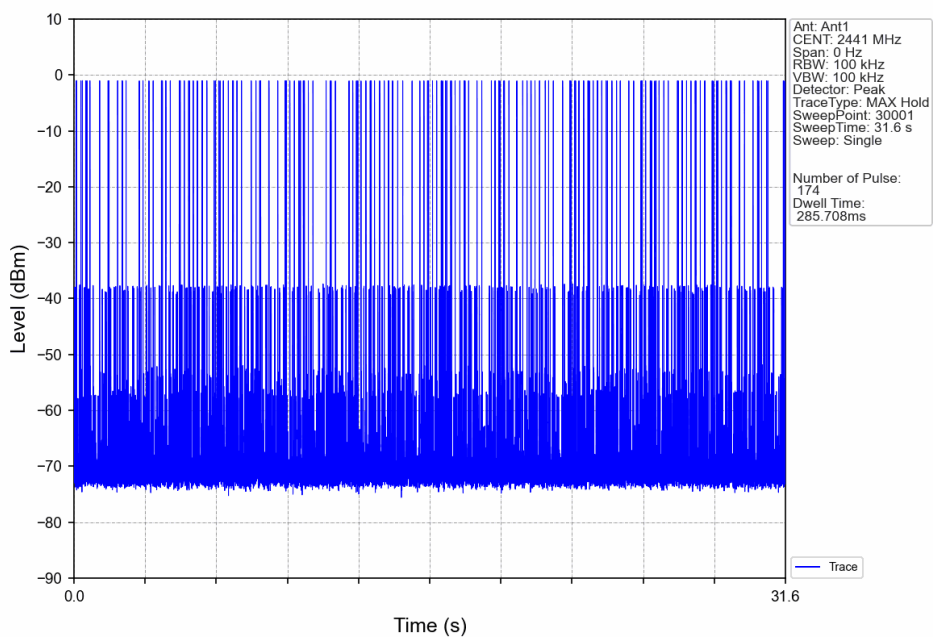
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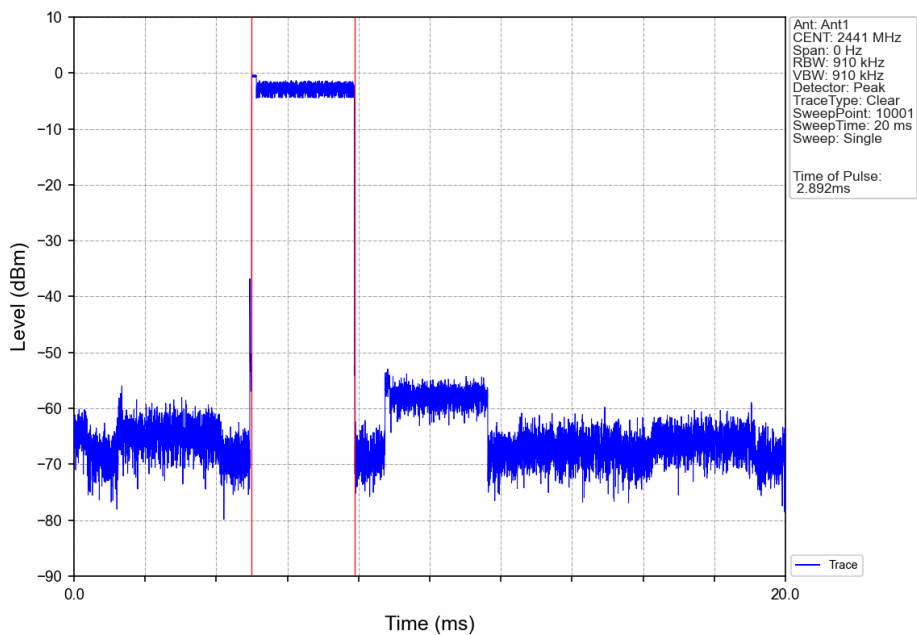
Pi/4DQPSK 2DH3 HOPP Ant1 NTN



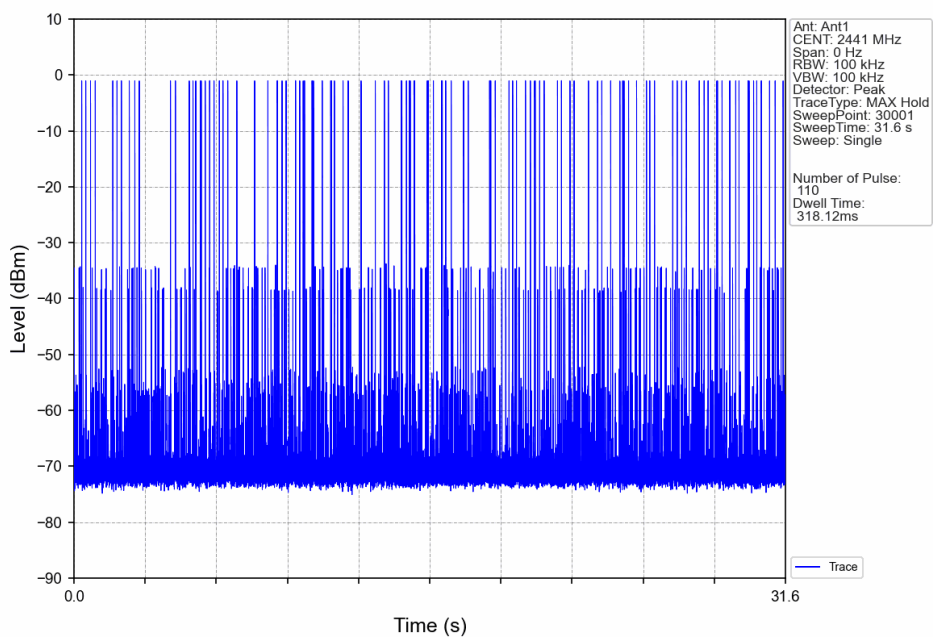
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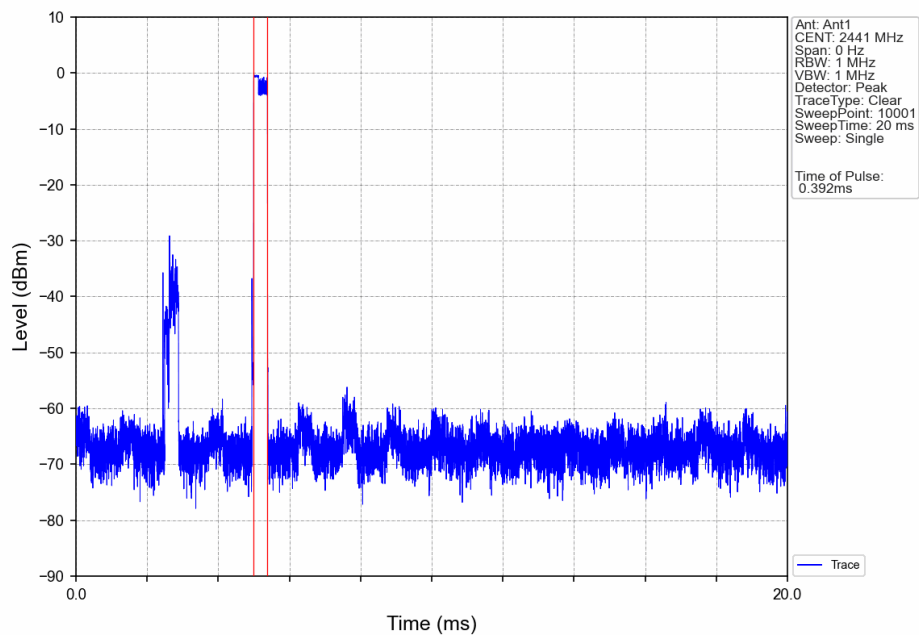
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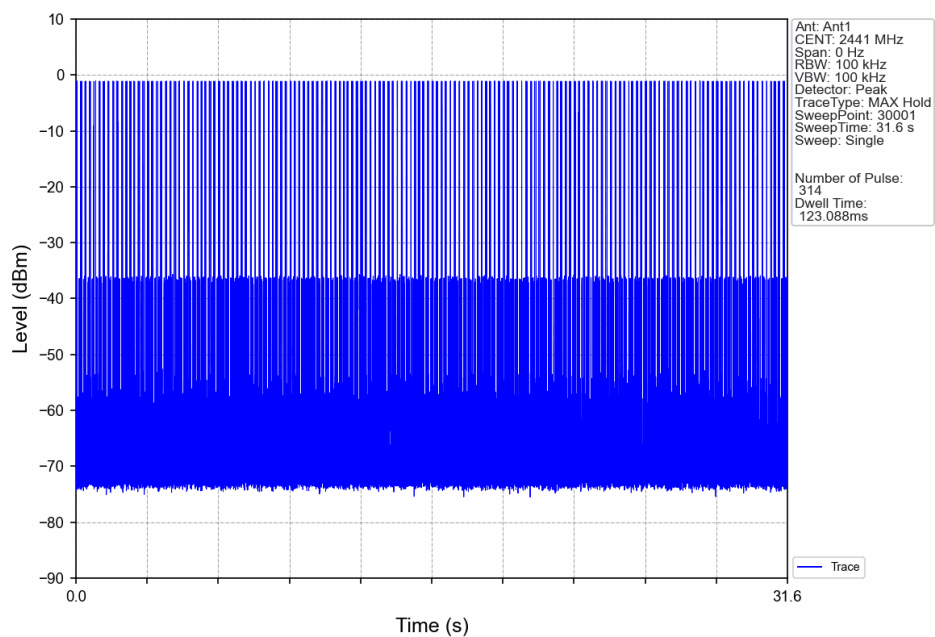
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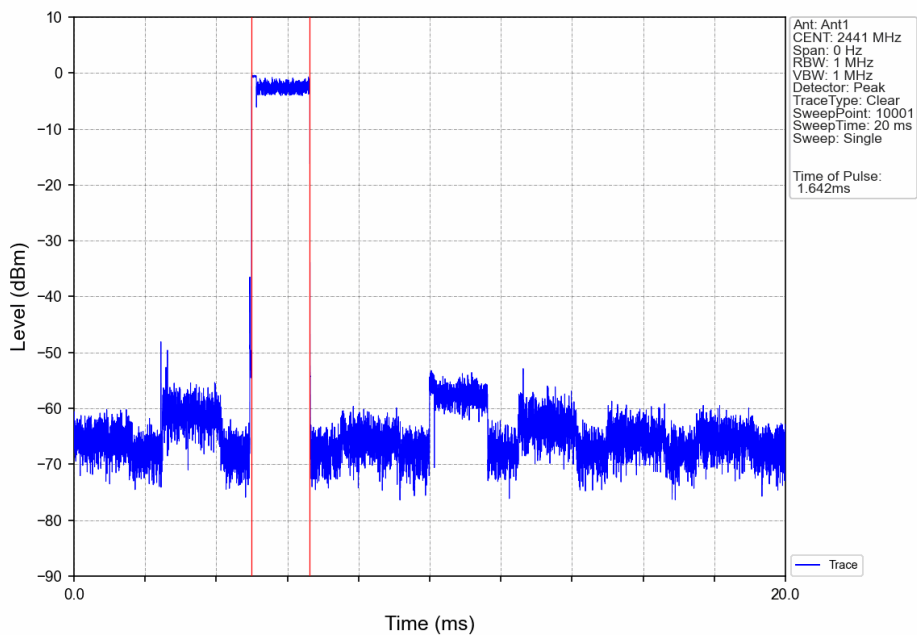
8DPSK 3DH1 HOPP Ant1 NTNV



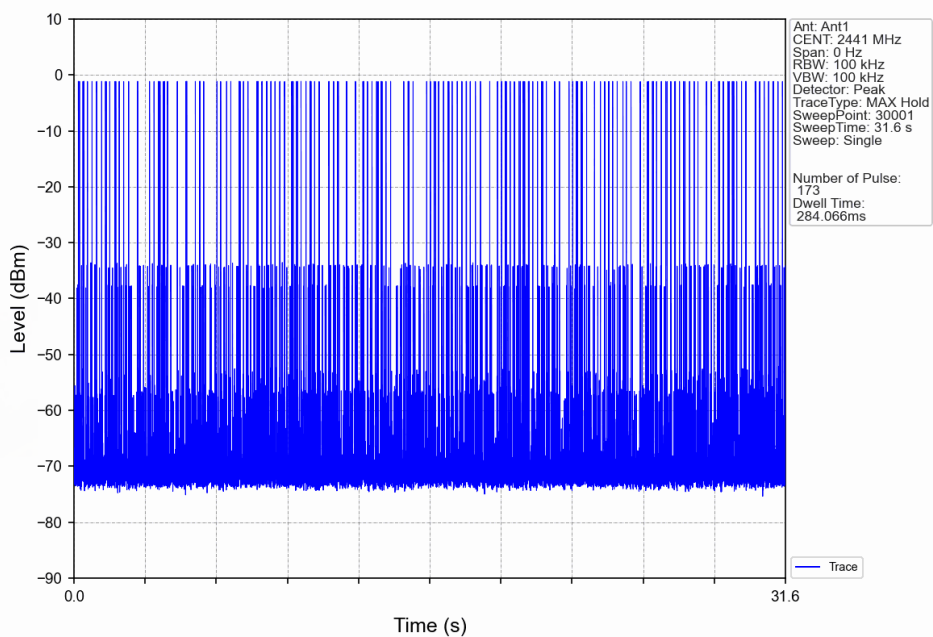
8DPSK 3DH1 HOPP Ant1 NTNV



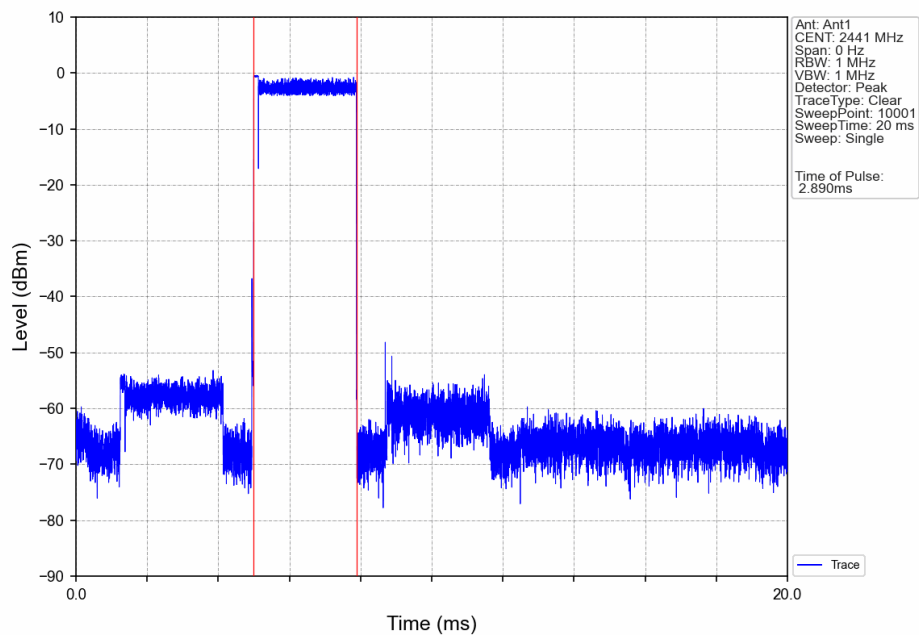
8DPSK 3DH3 HOPP Ant1 NTN



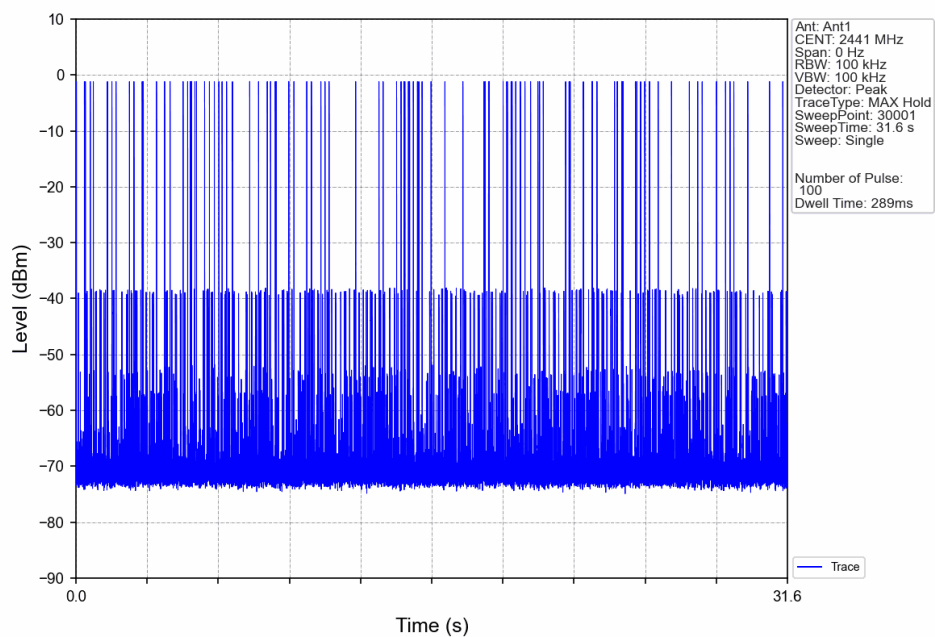
8DPSK 3DH3 HOPP Ant1 NTN



8DPSK 3DH5 HOPP Ant1 NTNV



8DPSK 3DH5 HOPP Ant1 NTNV



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	1.50
		2441	DH5	1	0.42
		2480	DH5	1	-0.96
Pi/4DQPSK	SISO	2402	2DH5	1	0.66
		2441	2DH5	1	-0.16
		2480	2DH5	1	-1.41
8DPSK	SISO	2402	3DH5	1	0.44
		2441	3DH5	1	-0.36
		2480	3DH5	1	-1.56

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.

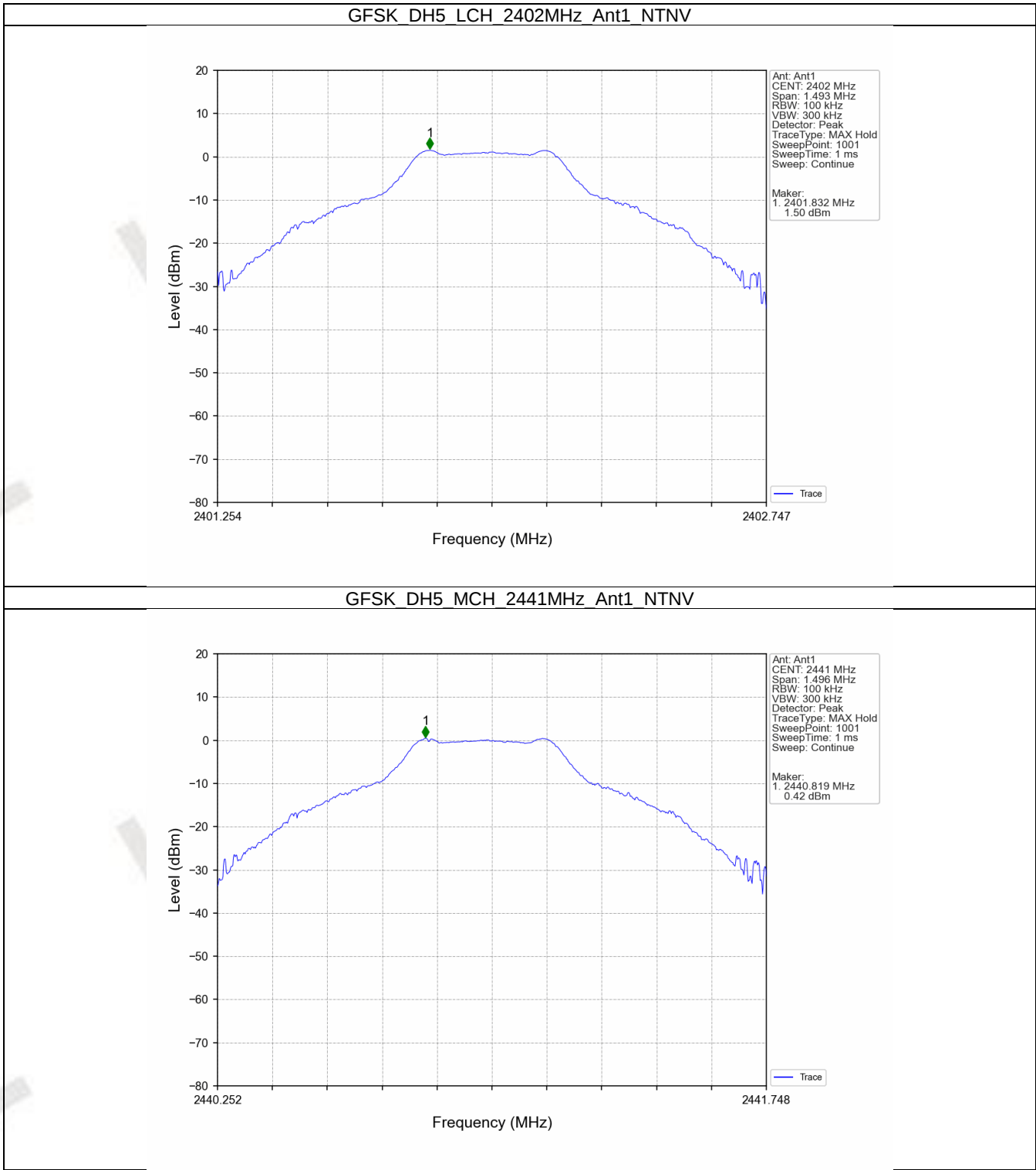
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.50	-18.50	Pass
		2441	DH5	1	1.50	-18.50	Pass
		2480	DH5	1	1.50	-18.50	Pass
		HOPP	DH5	1	1.50	-18.50	Pass
					1.50	-18.50	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.66	-19.34	Pass
		2441	2DH5	1	0.66	-19.34	Pass
		2480	2DH5	1	0.66	-19.34	Pass
		HOPP	2DH5	1	0.66	-19.34	Pass
					0.66	-19.34	Pass
8DPSK	SISO	2402	3DH5	1	0.44	-19.56	Pass
		2441	3DH5	1	0.44	-19.56	Pass
		2480	3DH5	1	0.44	-19.56	Pass
		HOPP	3DH5	1	0.44	-19.56	Pass
					0.44	-19.56	Pass

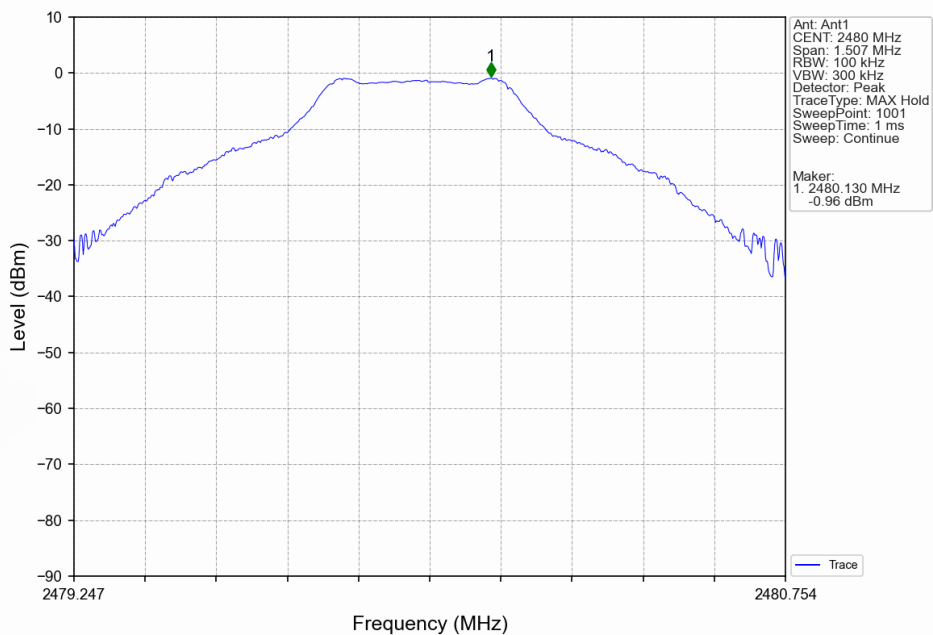
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

6.2 Test Graph

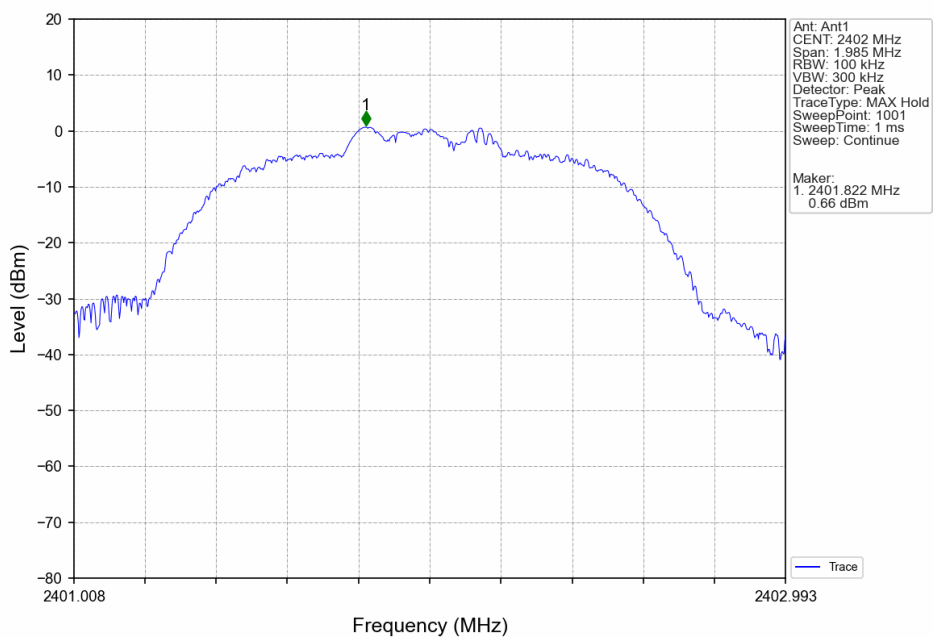
6.2.1 Ref



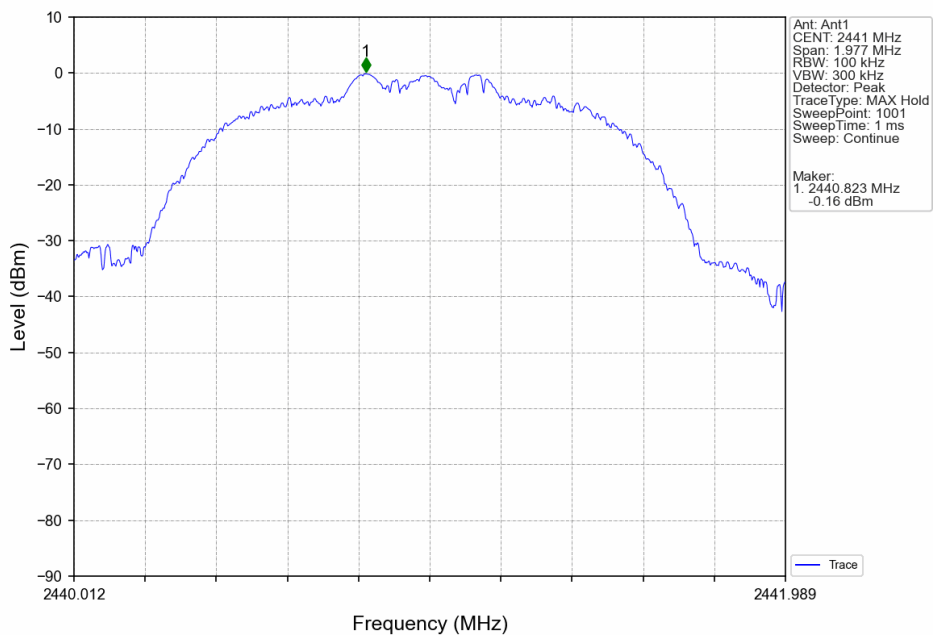
GFSK DH5 HCH 2480MHz Ant1 NTNV



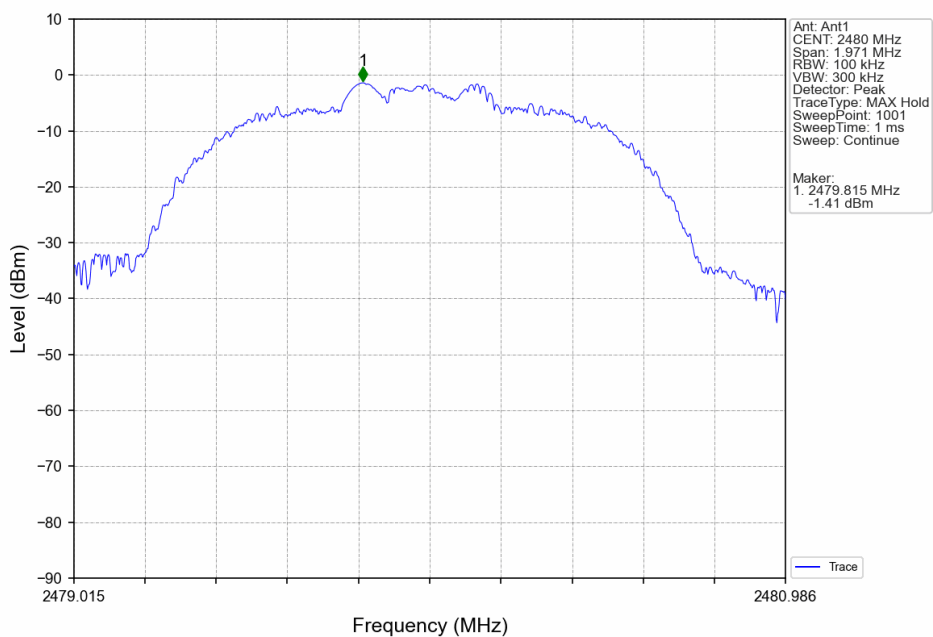
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



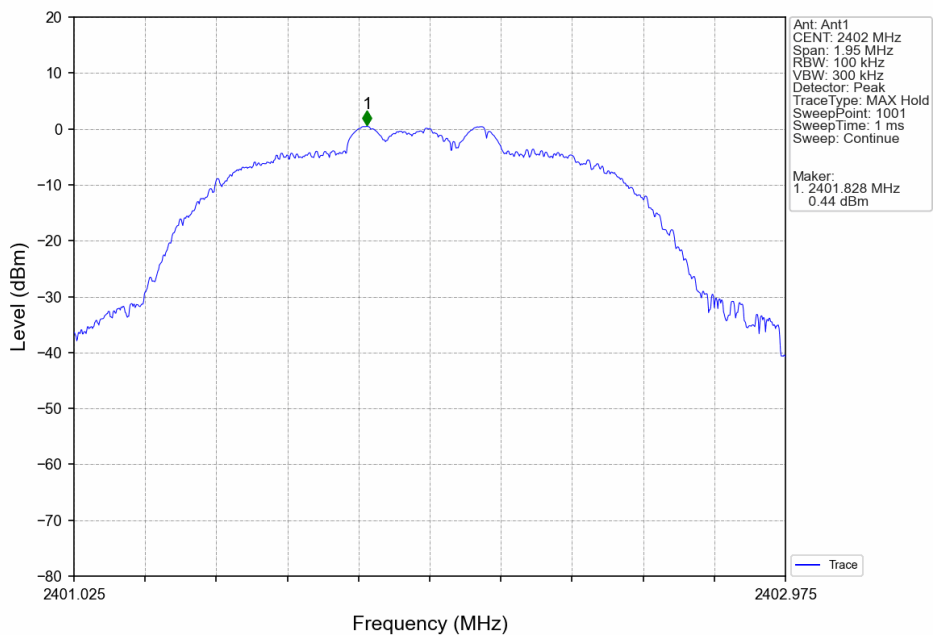
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



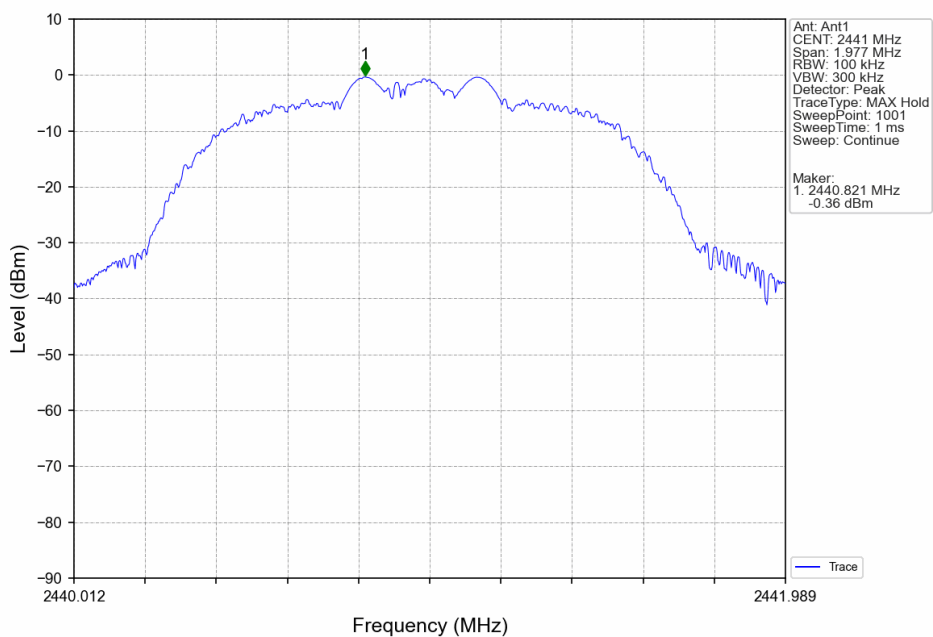
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN

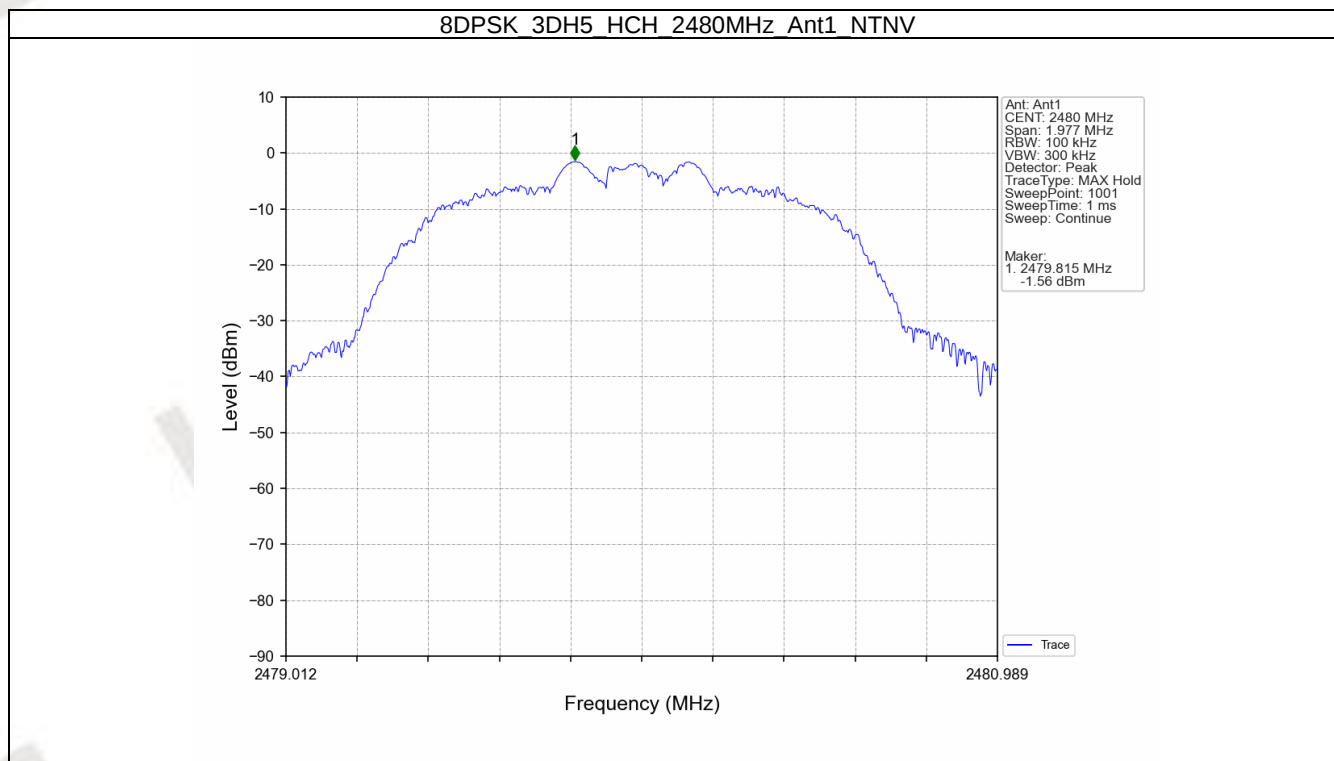


8DPSK 3DH5 LCH 2402MHz Ant1 NTV

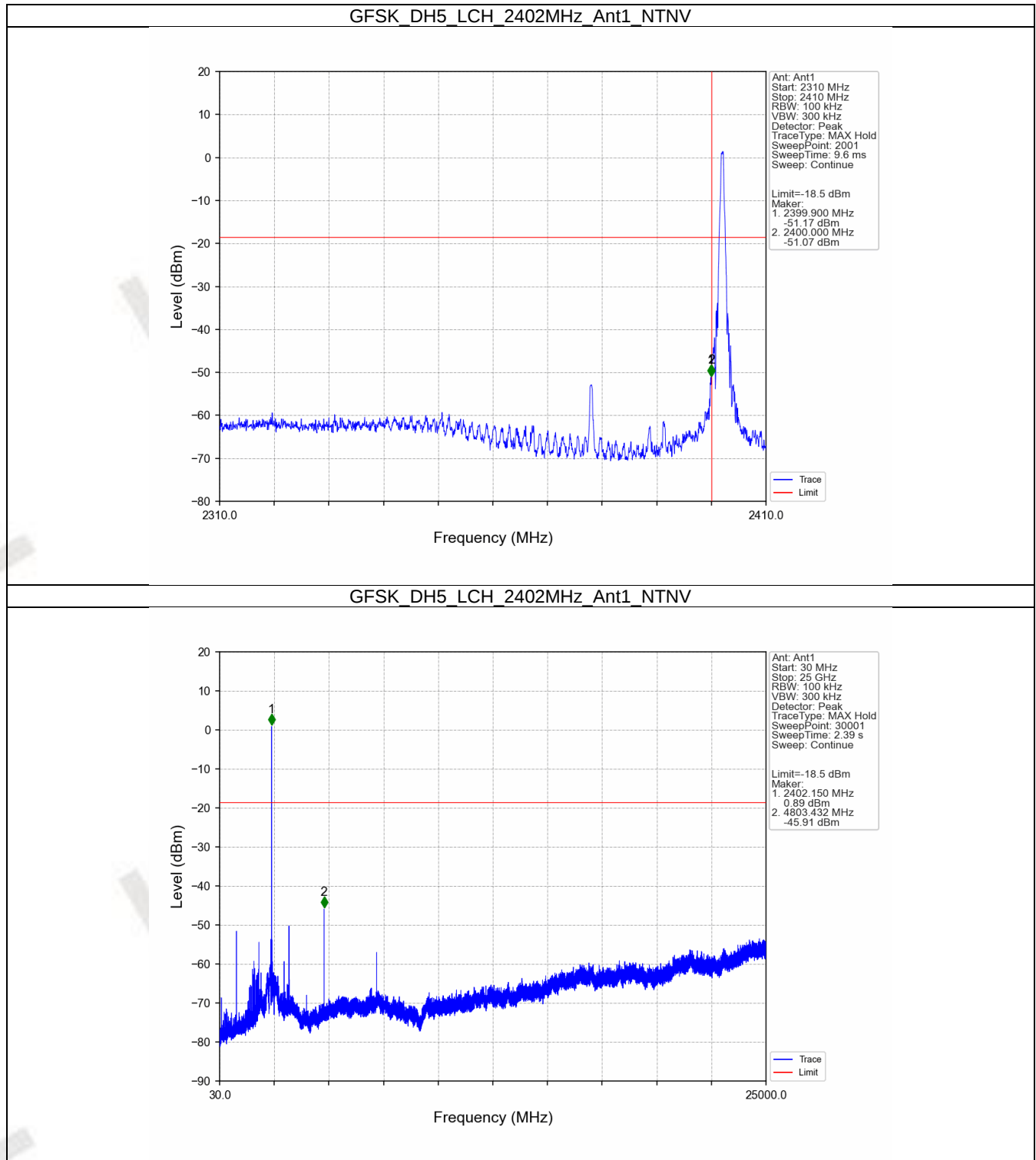


8DPSK 3DH5 MCH 2441MHz Ant1 NTV

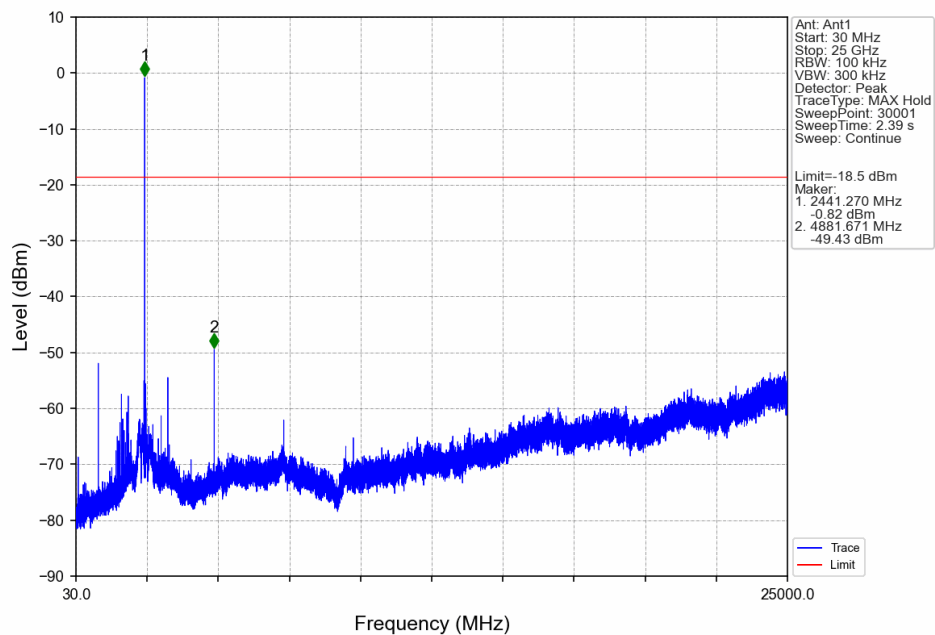




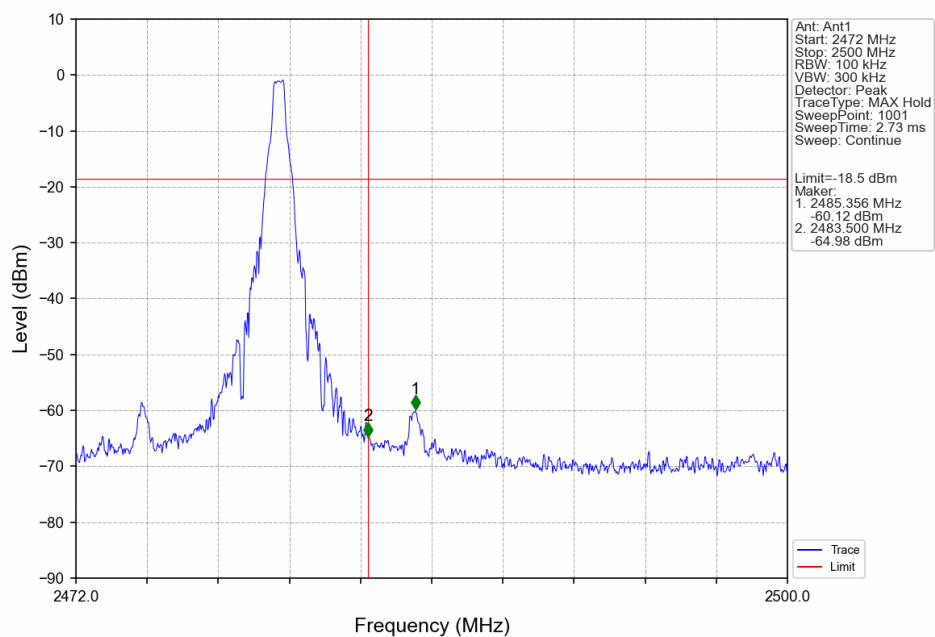
6.2.2 CSE



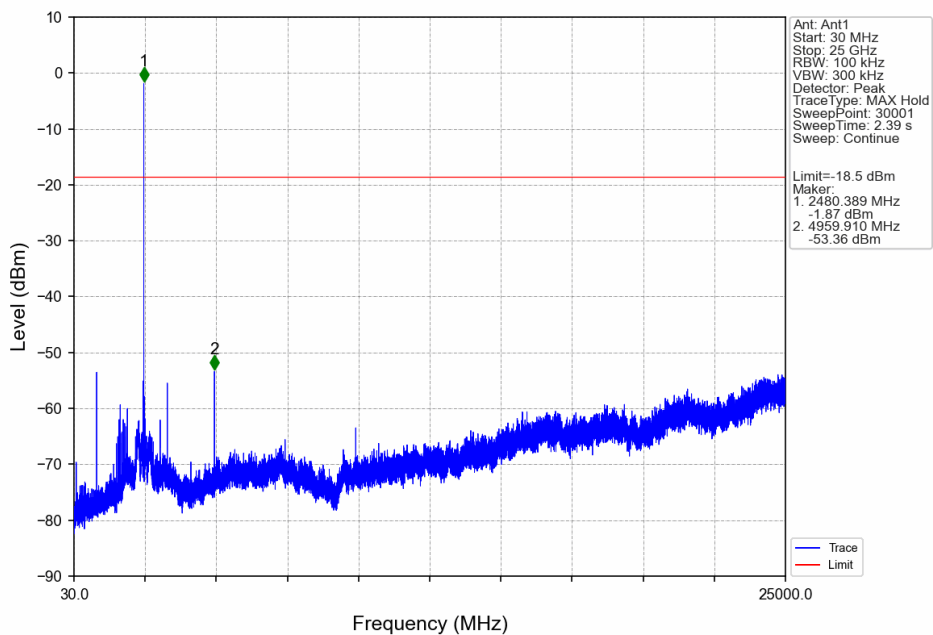
GFSK DH5 MCH 2441MHz Ant1 NTV



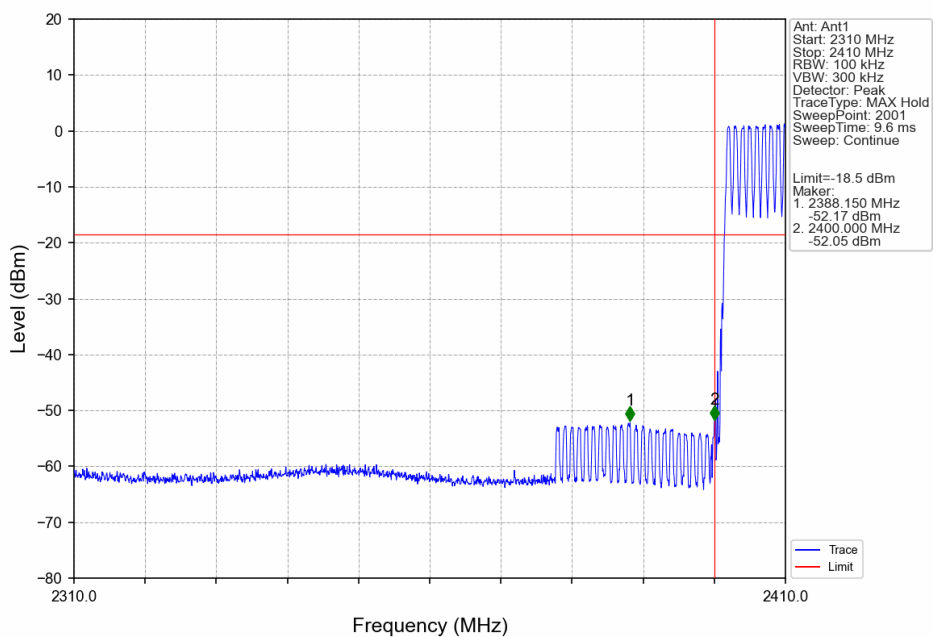
GFSK DH5 HCH 2480MHz Ant1 NTV



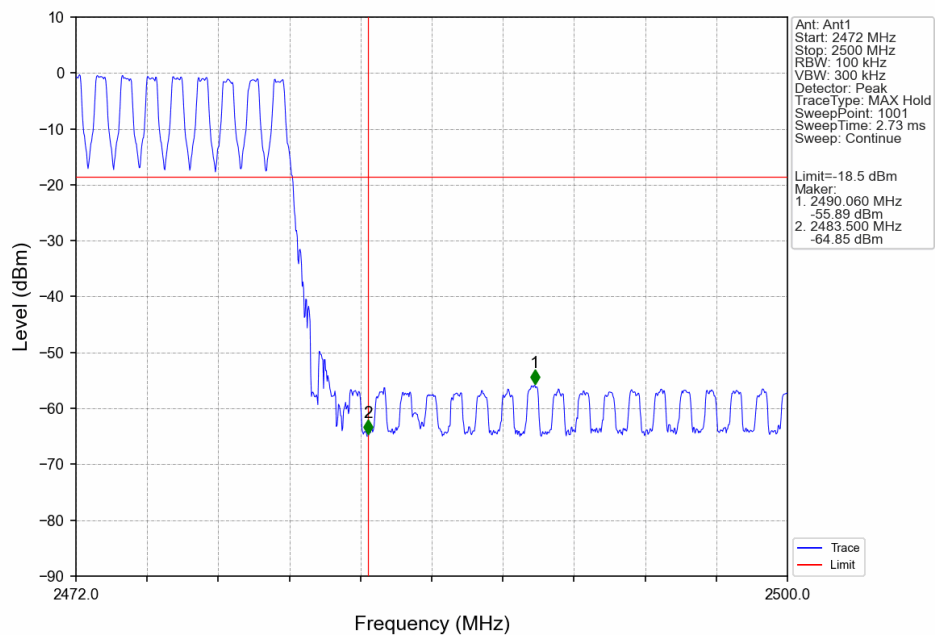
GFSK DH5 HCH 2480MHz Ant1 NTV



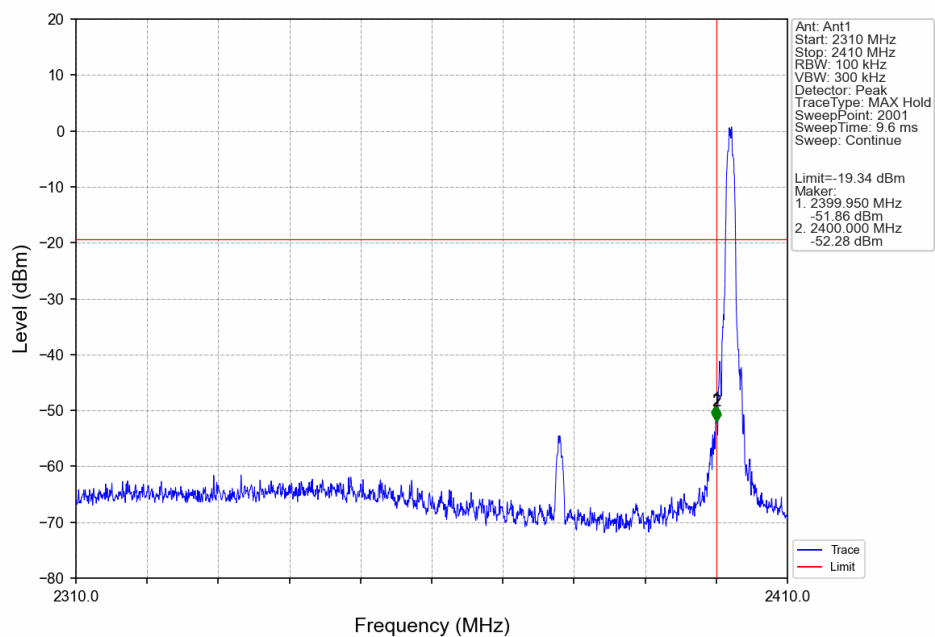
GFSK DH5 HOPP Ant1 NTV



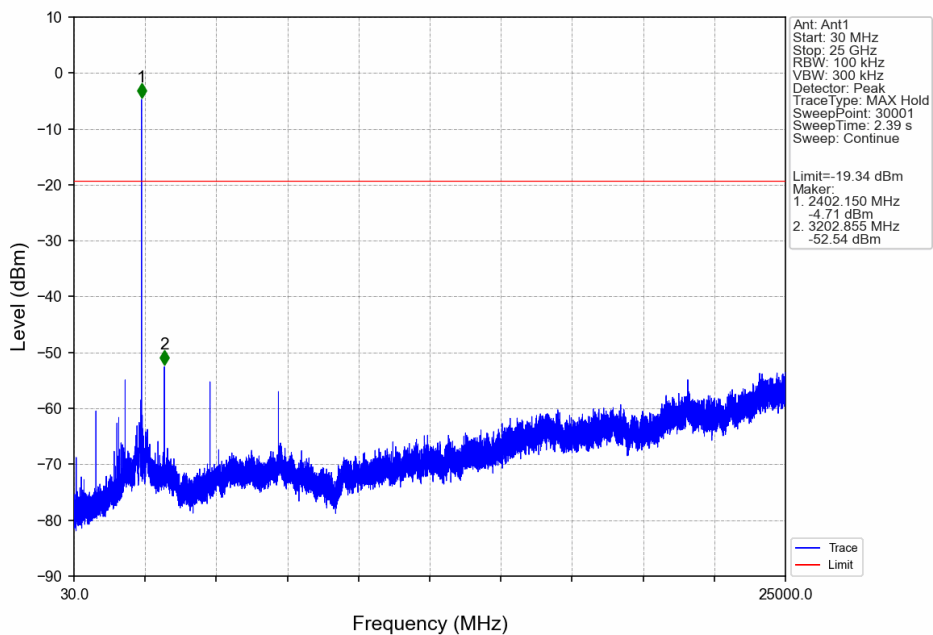
GFSK DH5 HOPP Ant1 NTN



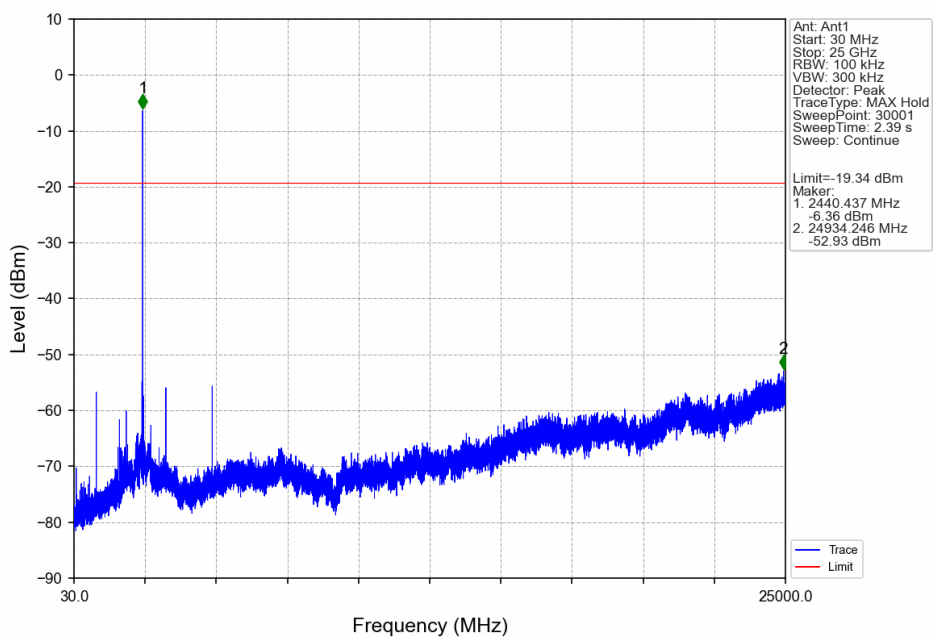
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



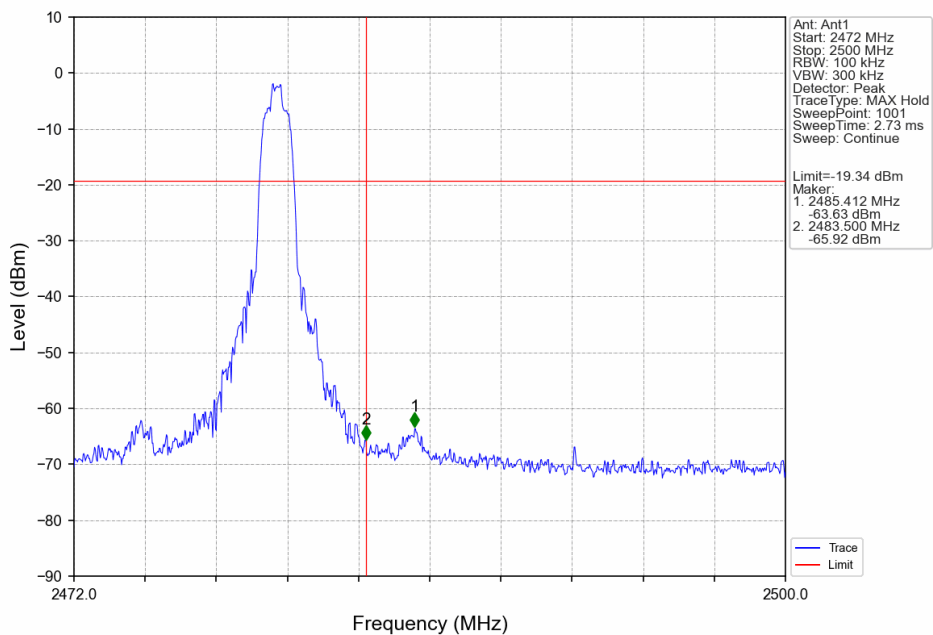
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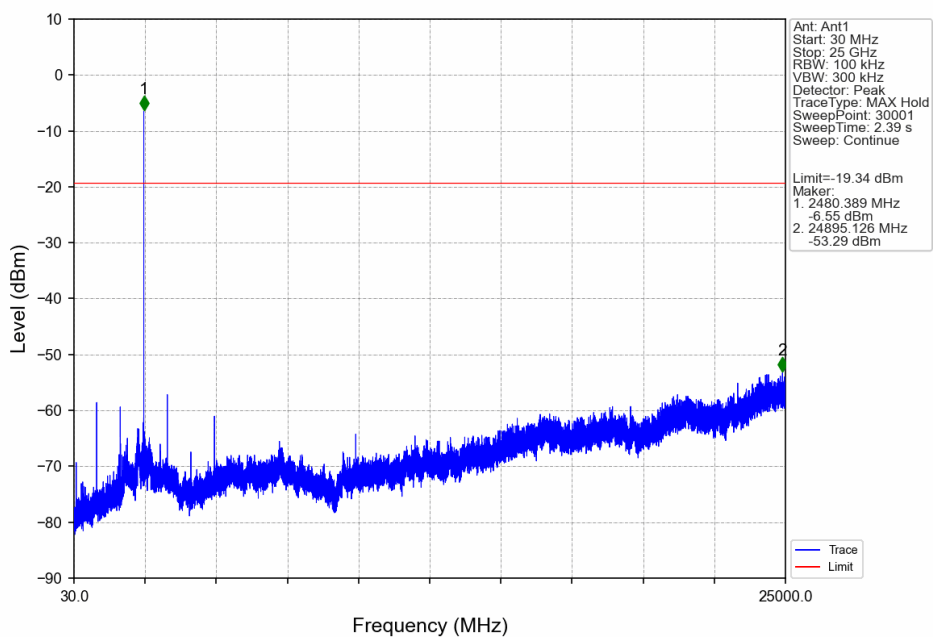
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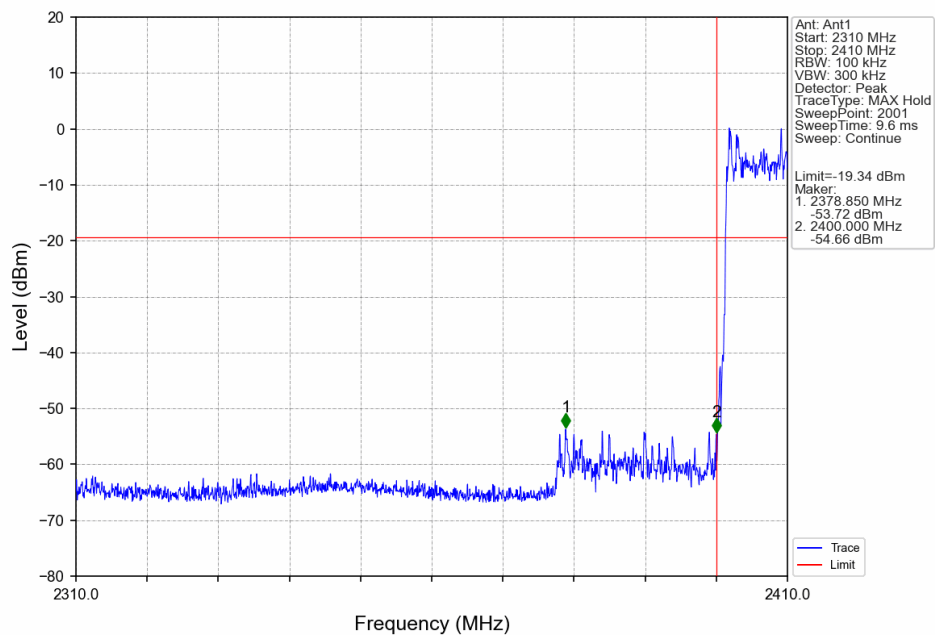
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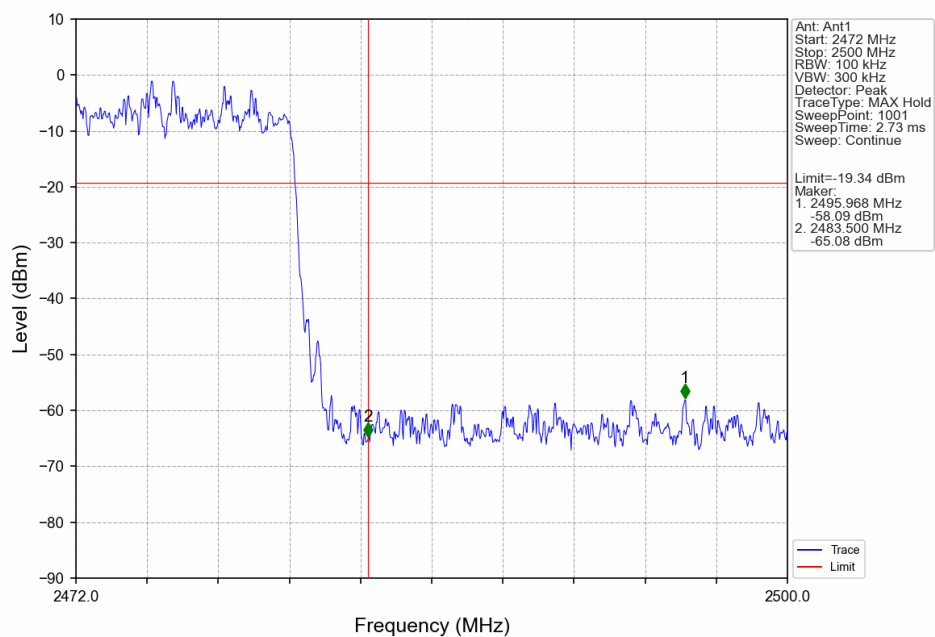
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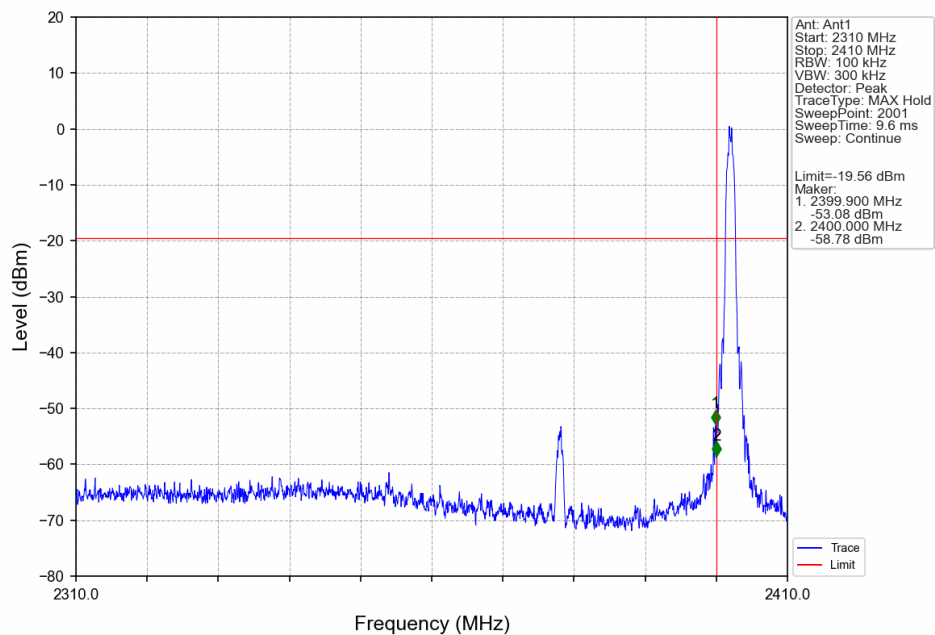
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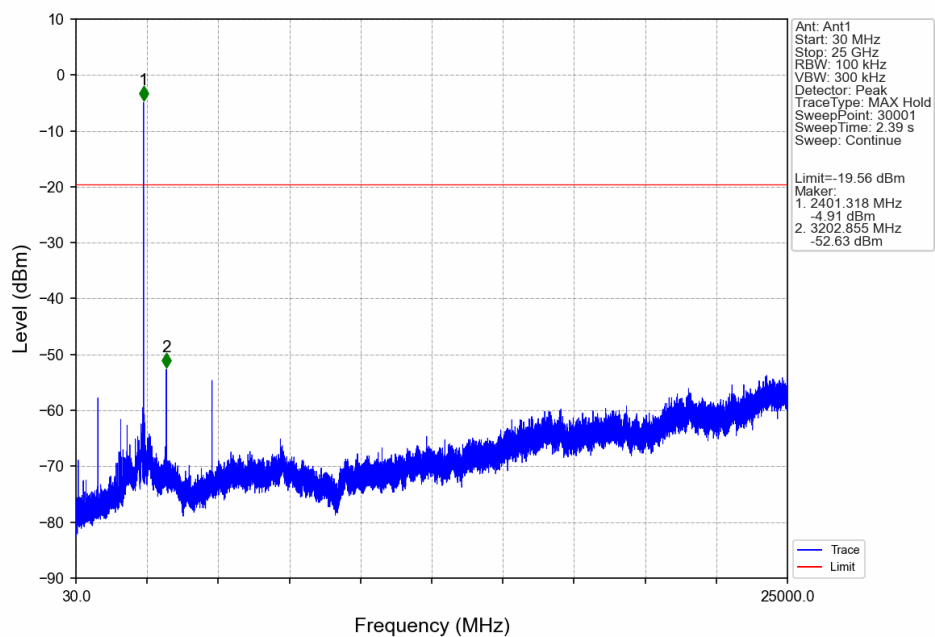
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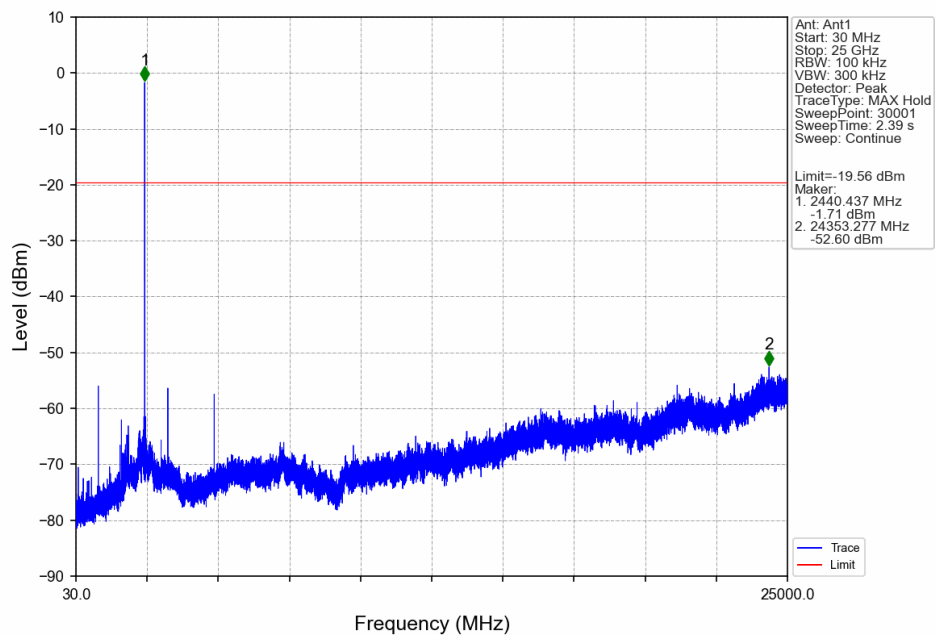
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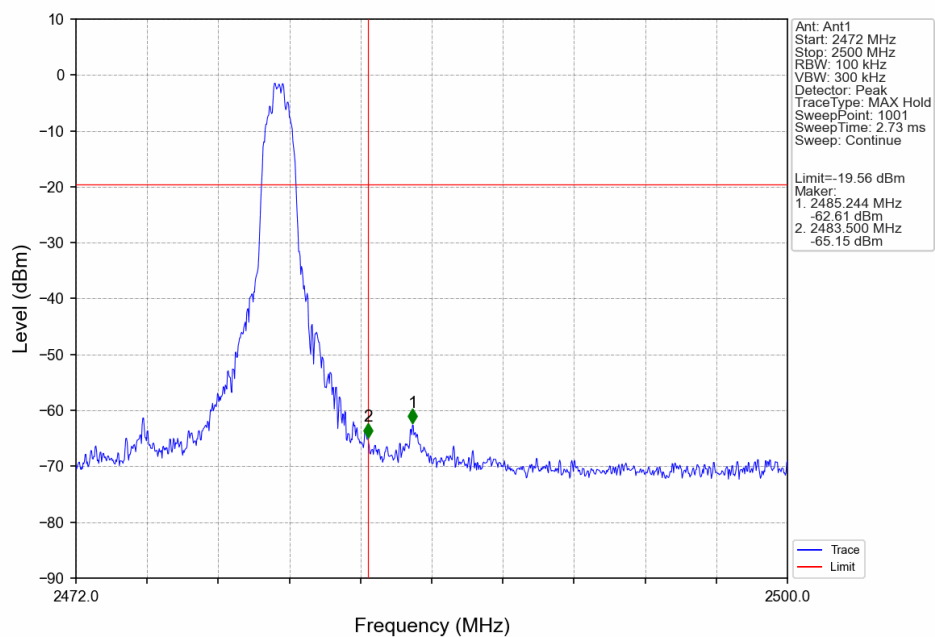
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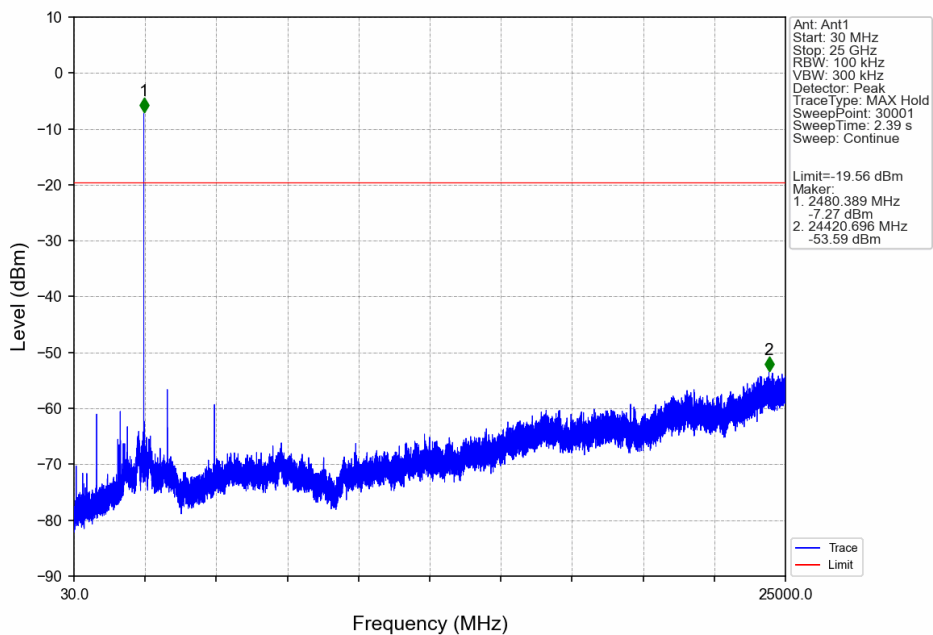
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8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HOPP Ant1 NTN

