

ANNEX D

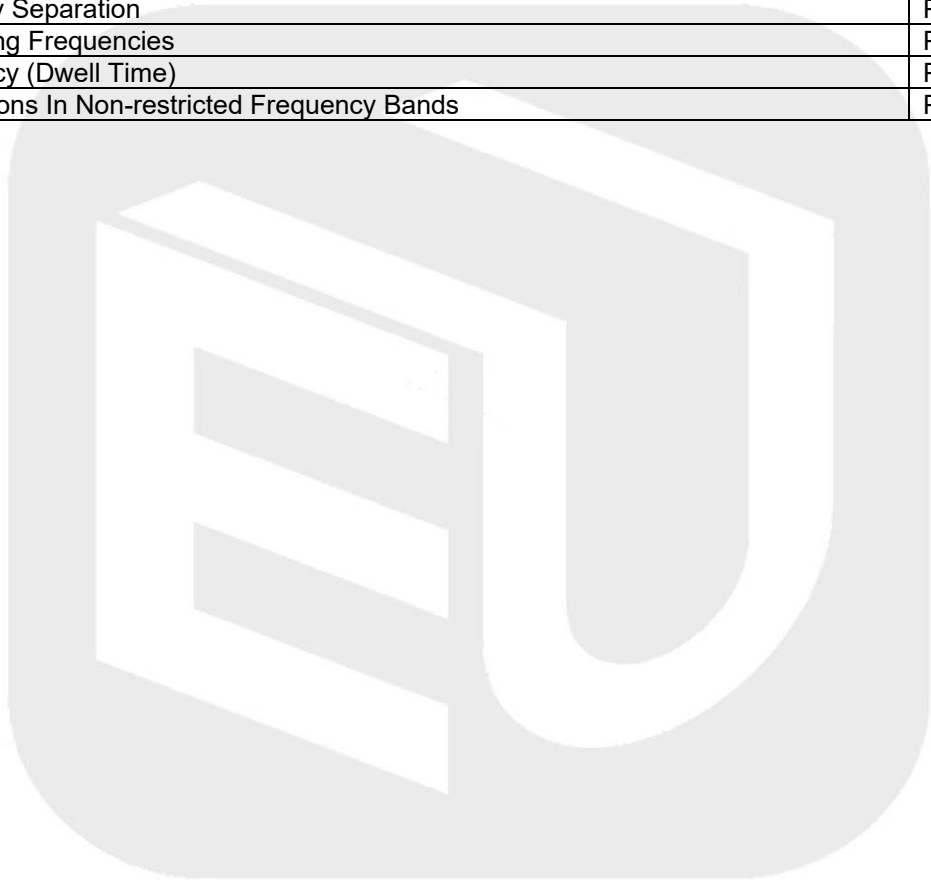
Test Report

For

Project No.:	8135EU012709W
Client:	Shenzhen Thousandshores Technology Co., Ltd.
Manufacturer:	Shenzhen Thousandshores Technology Co., Ltd.
Product Description:	Wireless Headphones / BTH22
Test Engineer:	<i>Mikey zhu</i>
Test Date:	2024-01-03

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Carrier Frequency Separation	Pass
Number of Hopping Frequencies	Pass
Time of Occupancy (Dwell Time)	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



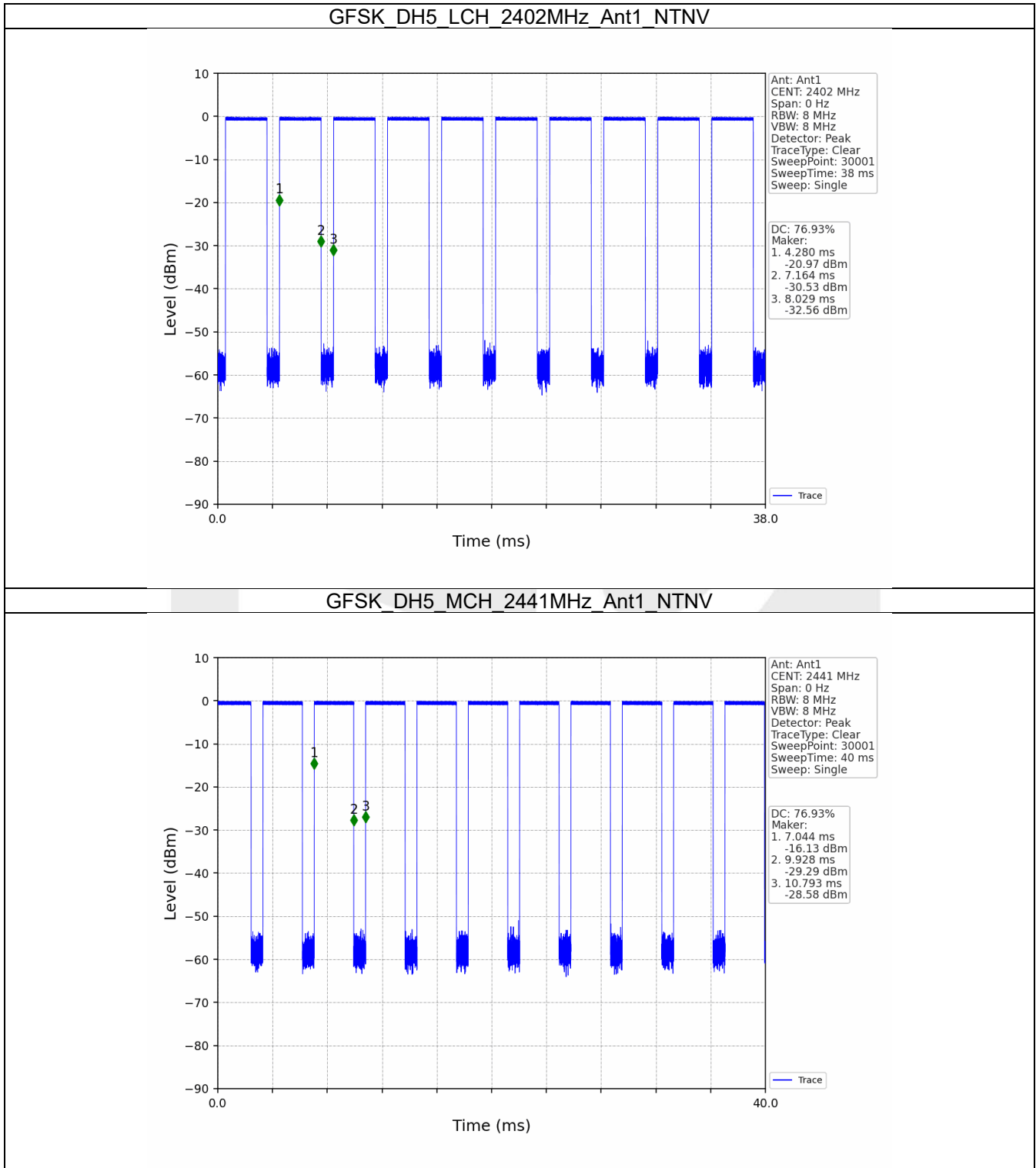
1. Duty Cycle

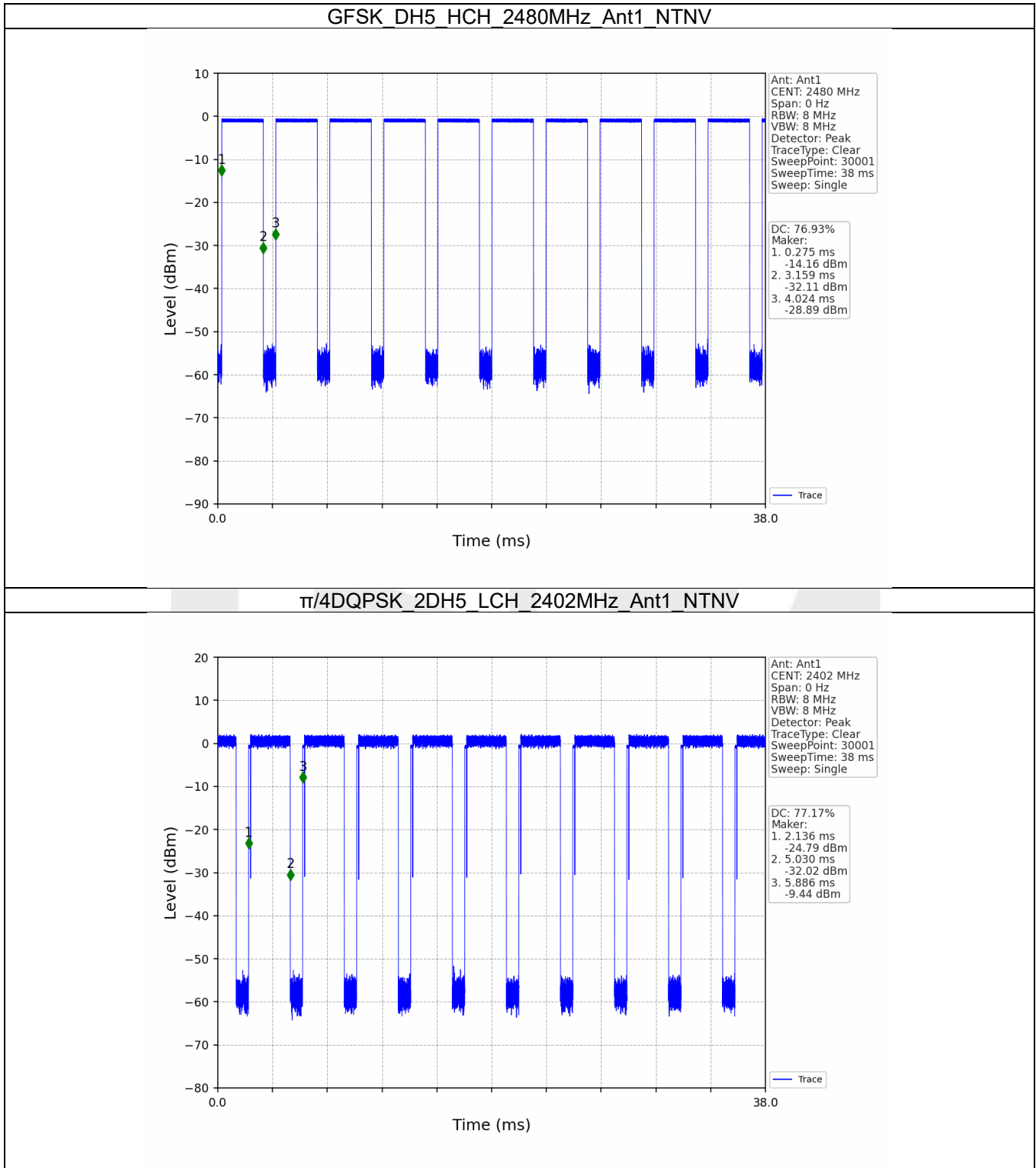
1.1 Ant1

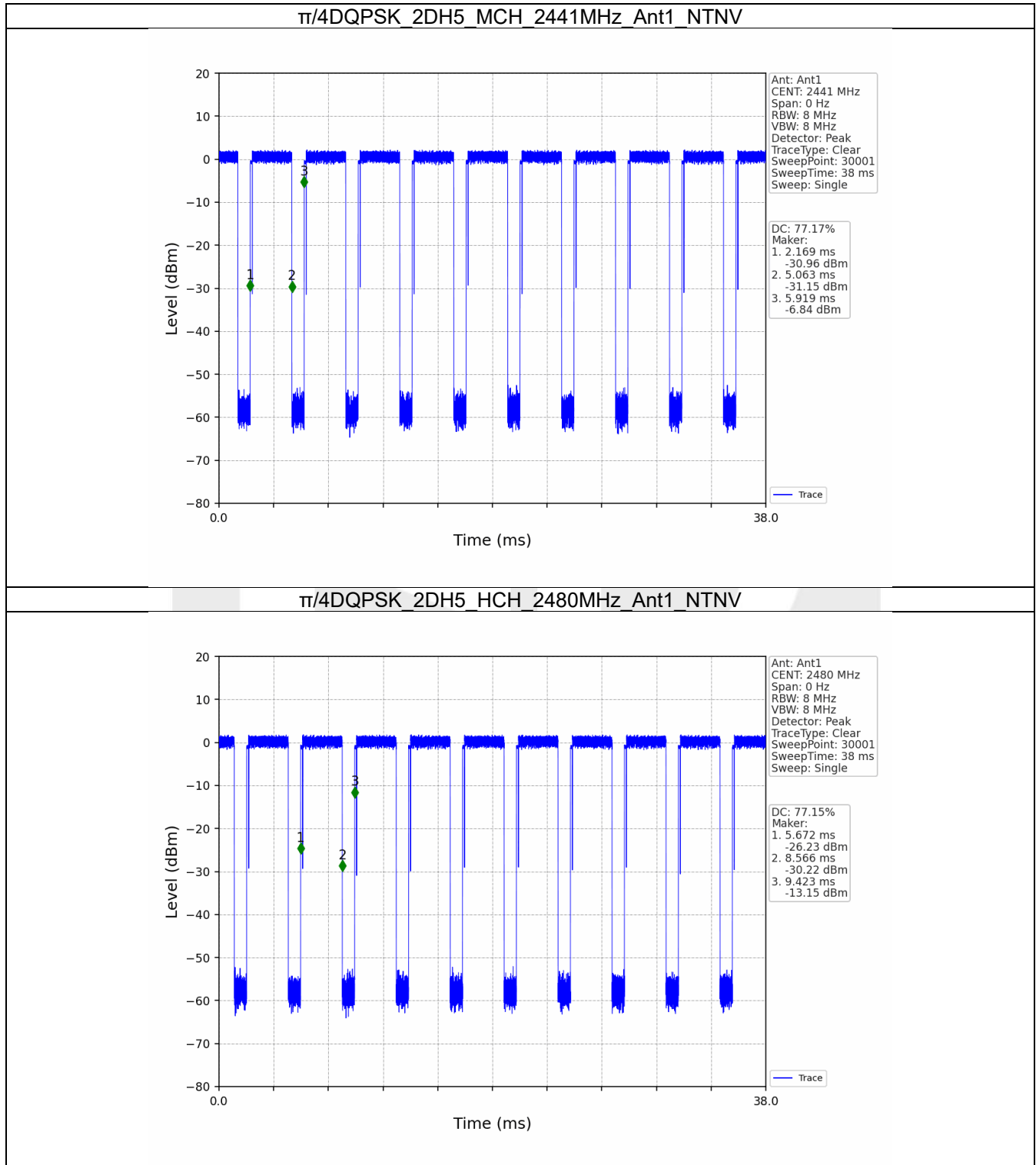
1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.884	3.749	76.93	1.14	0.01
		2441	DH5	2.884	3.749	76.93	1.14	0.04
		2480	DH5	2.884	3.749	76.93	1.14	0.03
π/4DQPSK	SISO	2402	2DH5	2.894	3.750	77.17	1.13	0.03
		2441	2DH5	2.894	3.750	77.17	1.13	0.03
		2480	2DH5	2.894	3.751	77.15	1.13	0.03

1.1.2 Test Graph







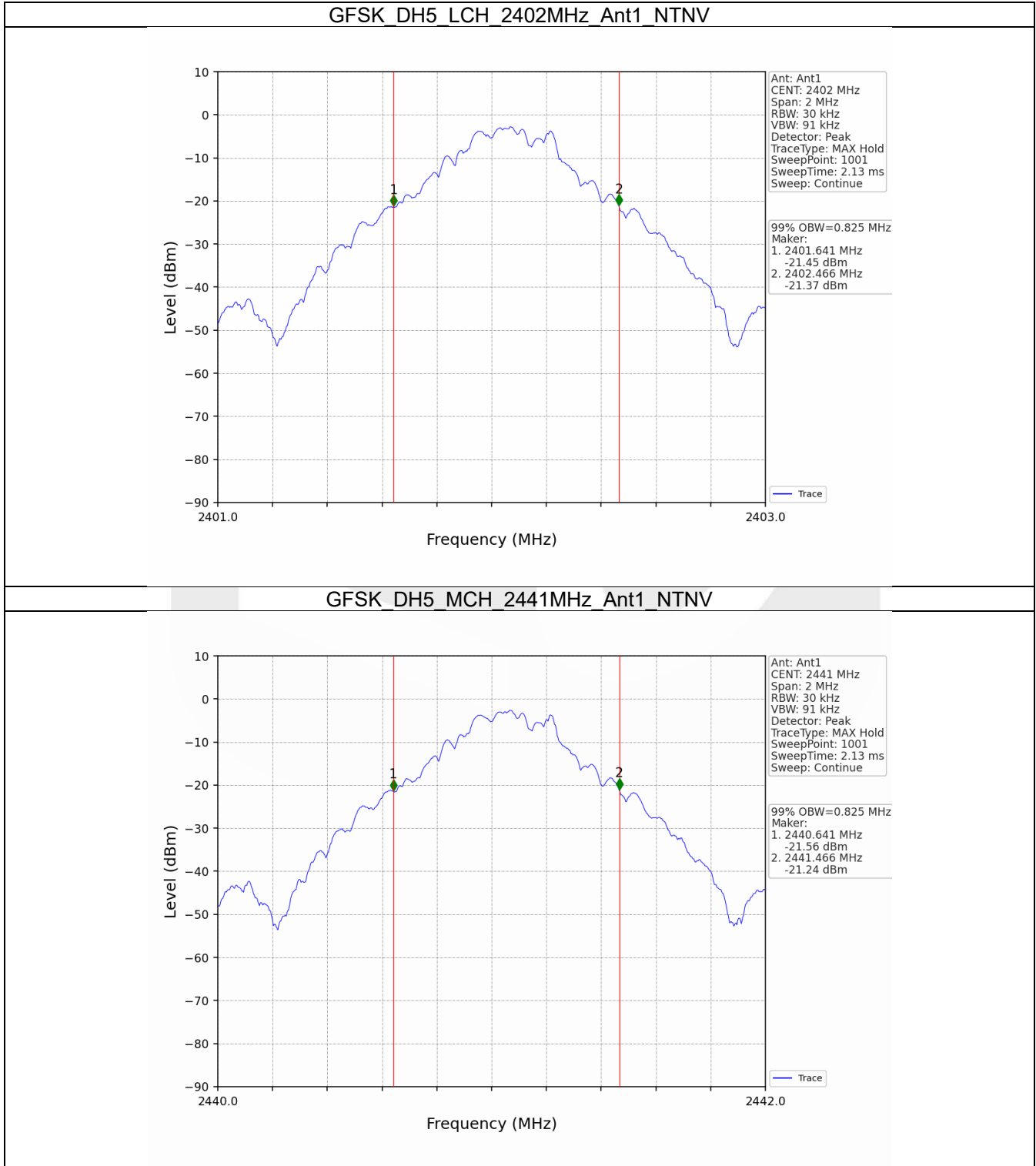
2. Bandwidth

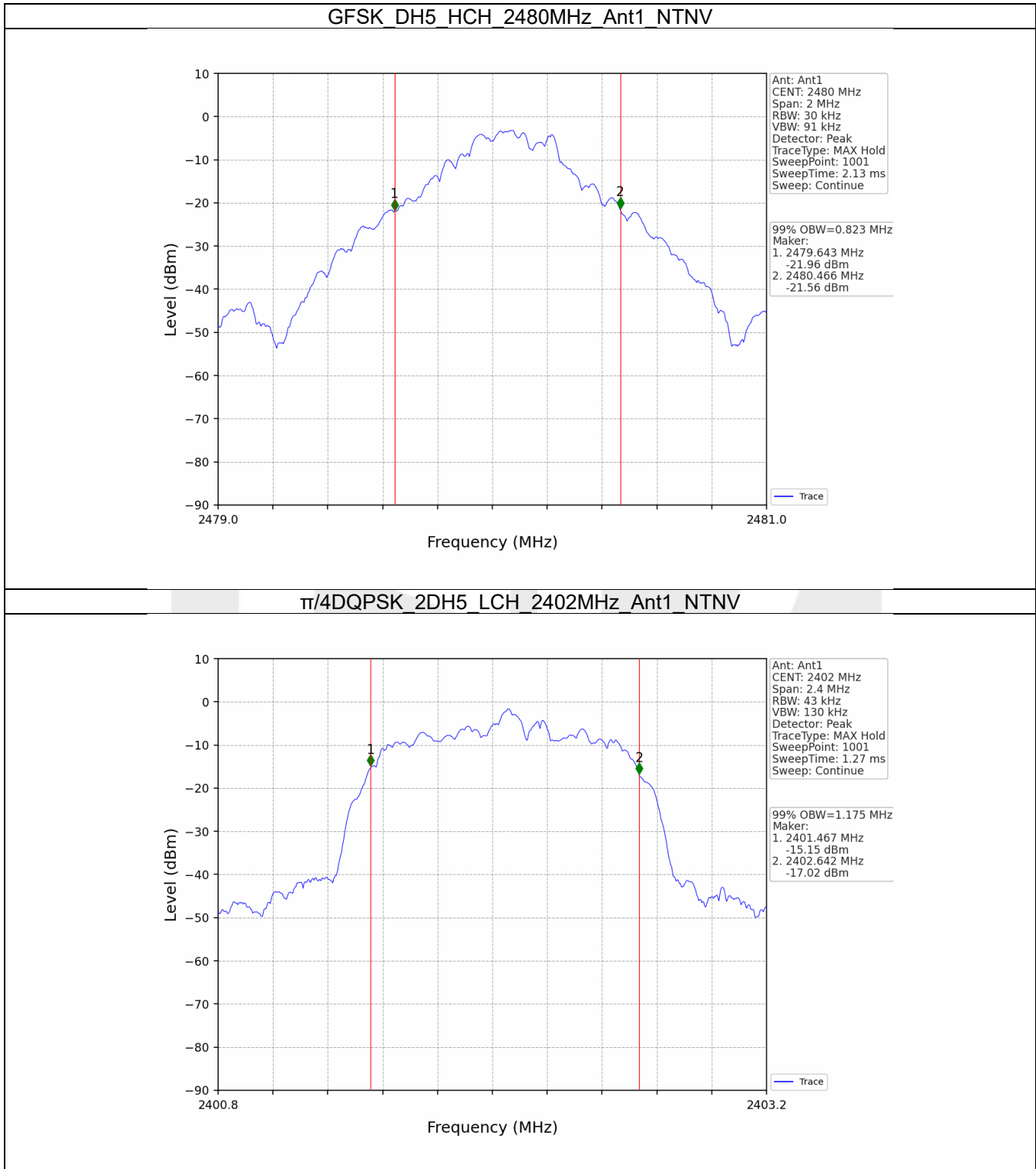
2.1 OBW

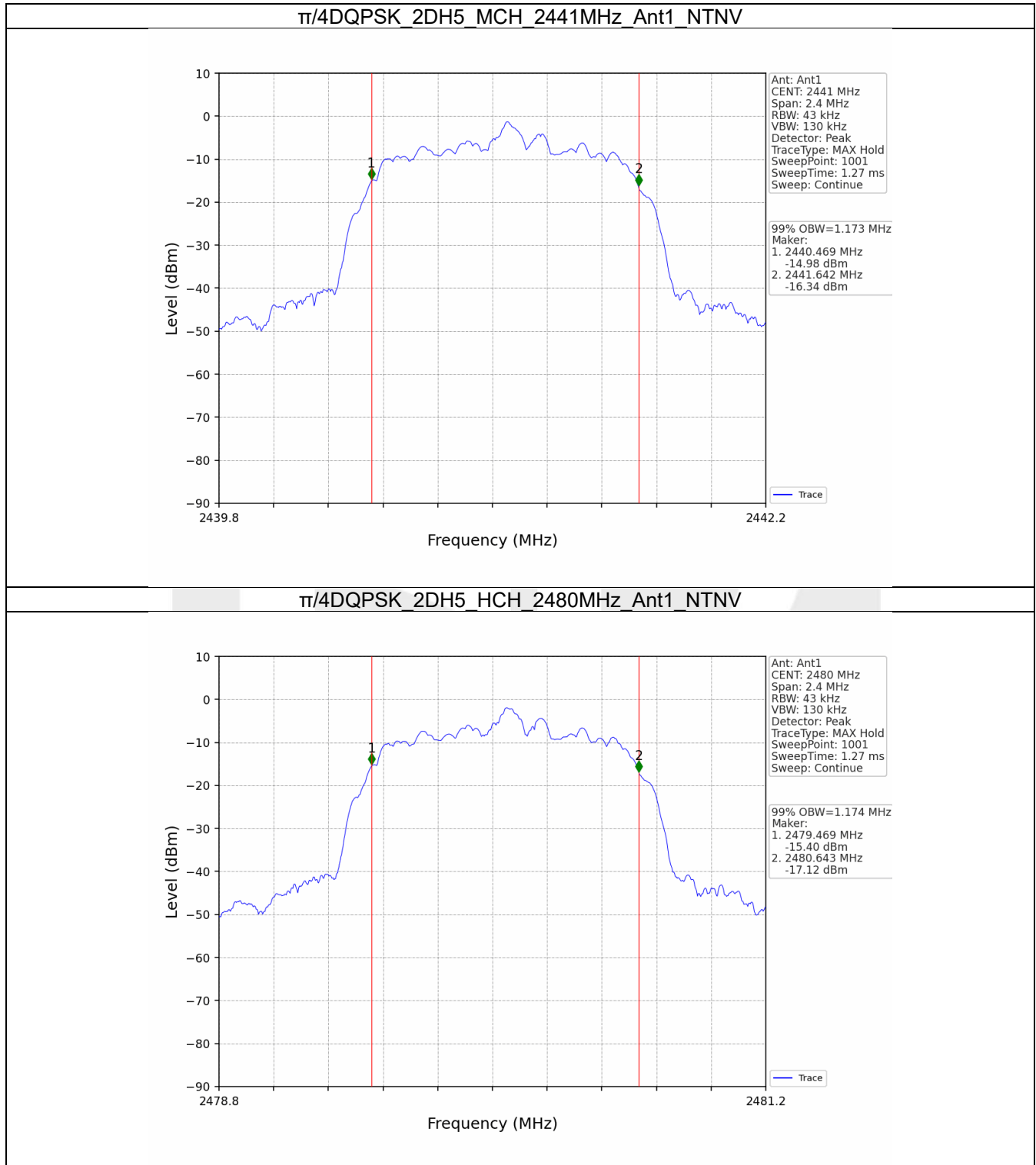
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.825	Pass
		2441	DH5	1	0.825	Pass
		2480	DH5	1	0.823	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.175	Pass
		2441	2DH5	1	1.173	Pass
		2480	2DH5	1	1.174	Pass

2.1.2 Test Graph





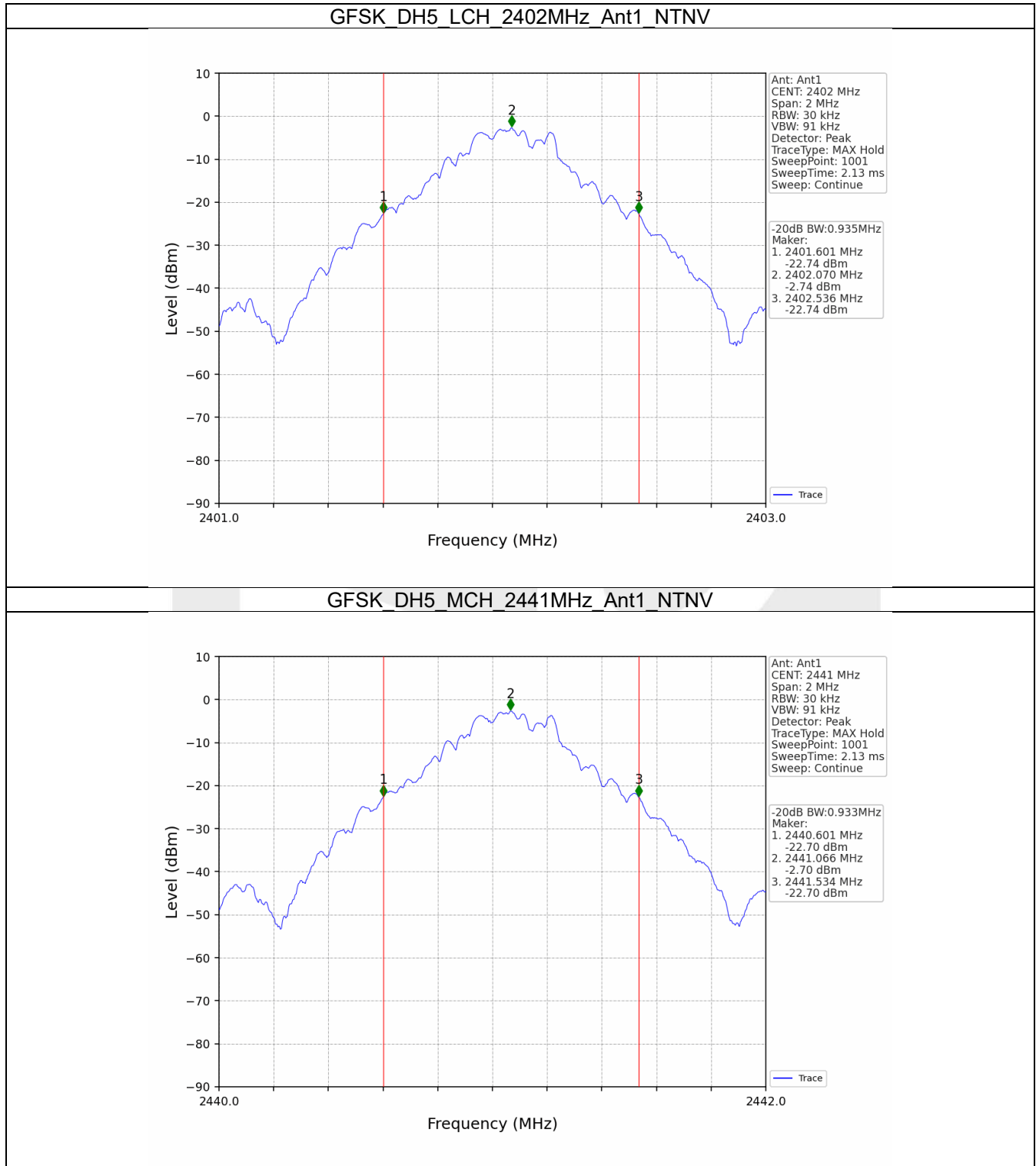


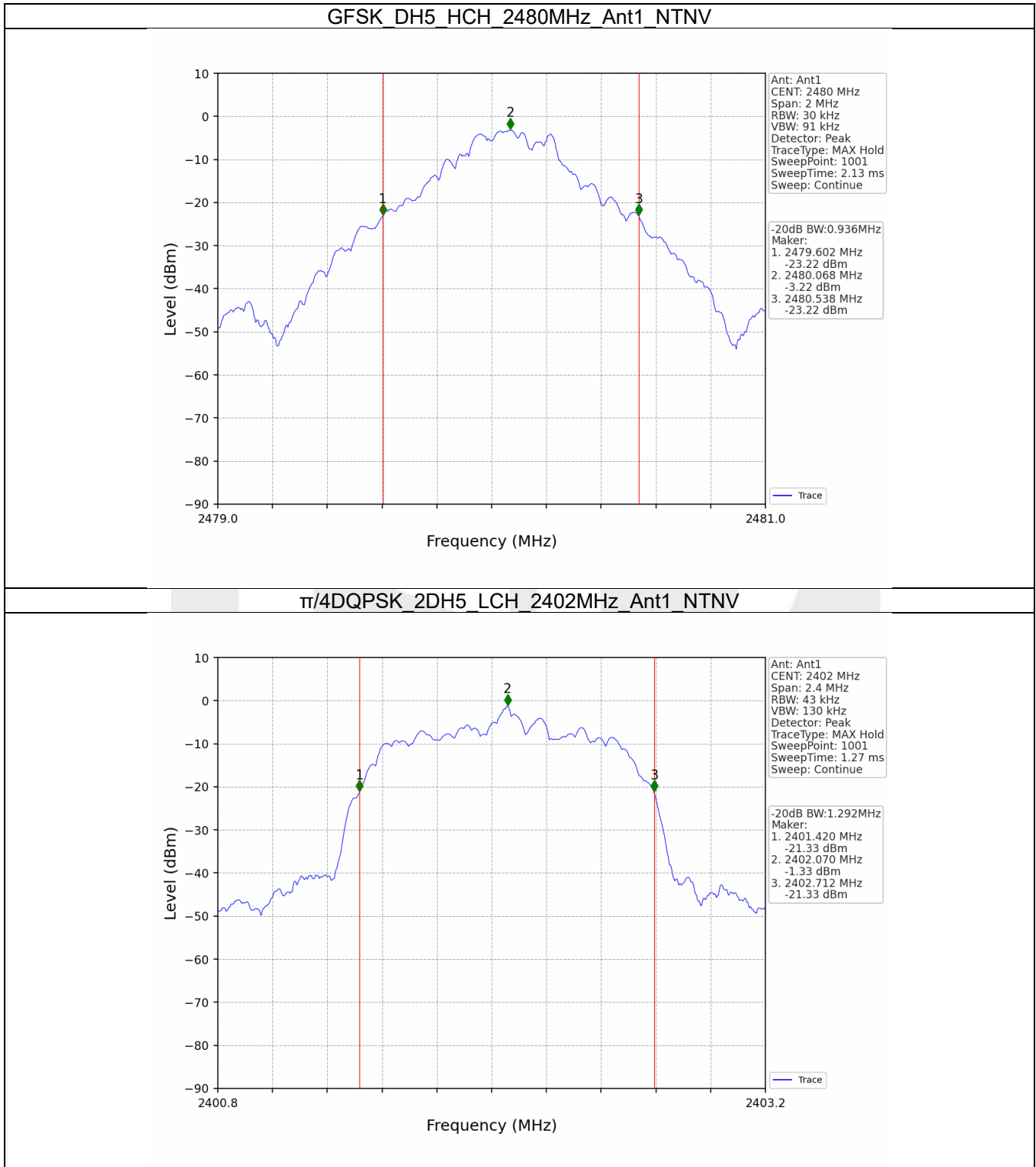
2.2 20dB BW

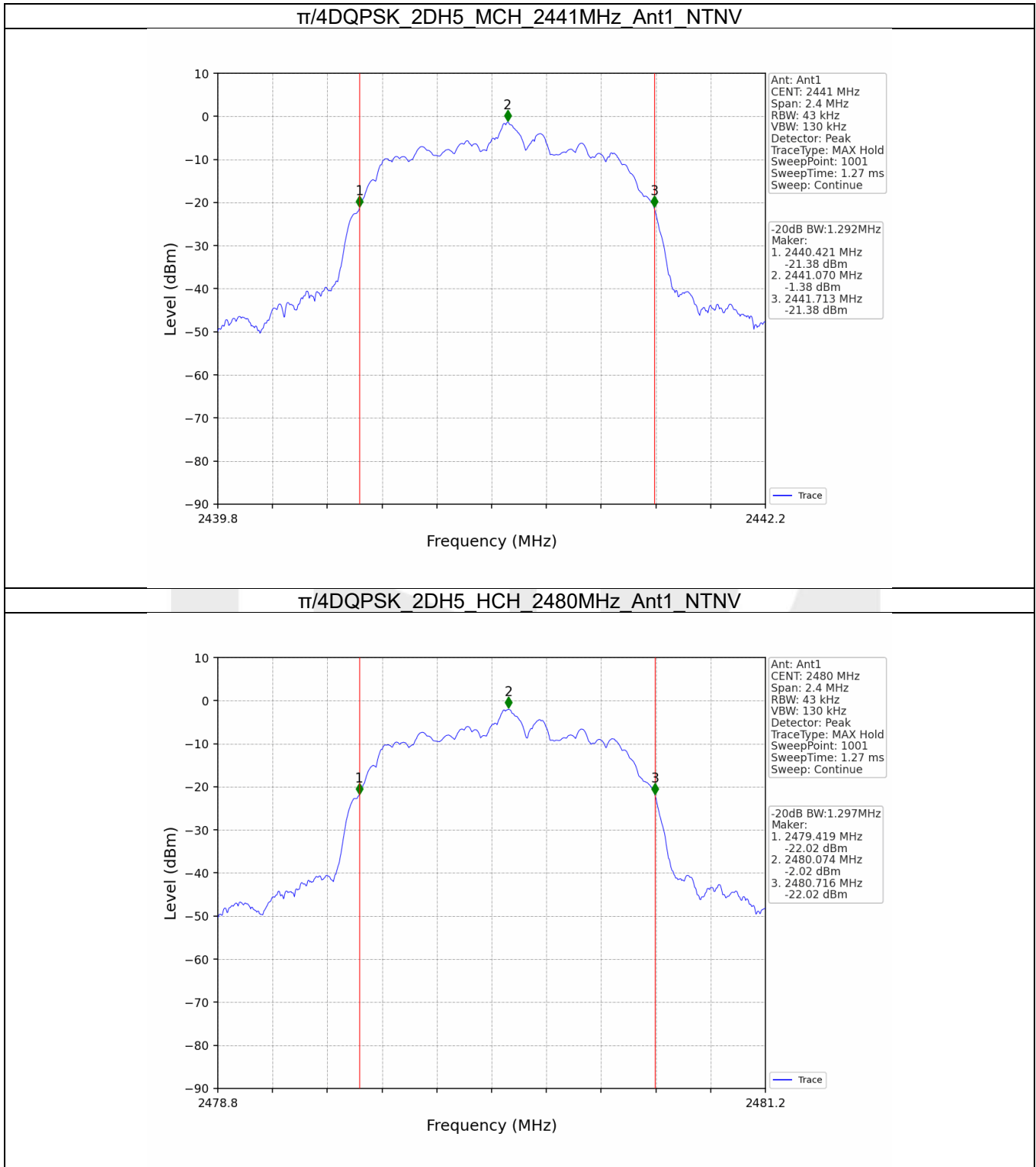
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.935	Pass
		2441	DH5	1	0.933	Pass
		2480	DH5	1	0.936	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.292	Pass
		2441	2DH5	1	1.292	Pass
		2480	2DH5	1	1.297	Pass

2.2.2 Test Graph







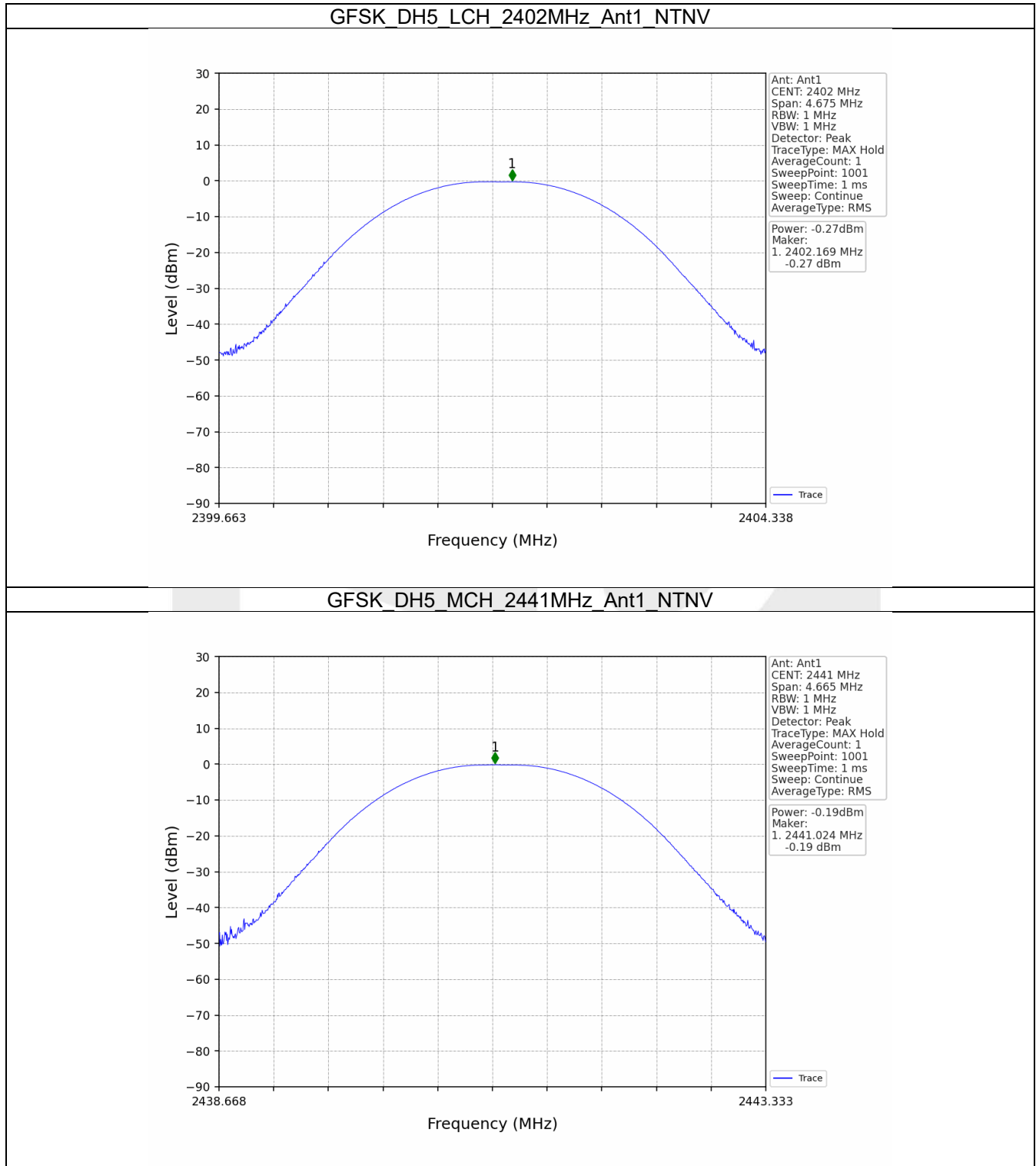
3. Maximum Conducted Output Power

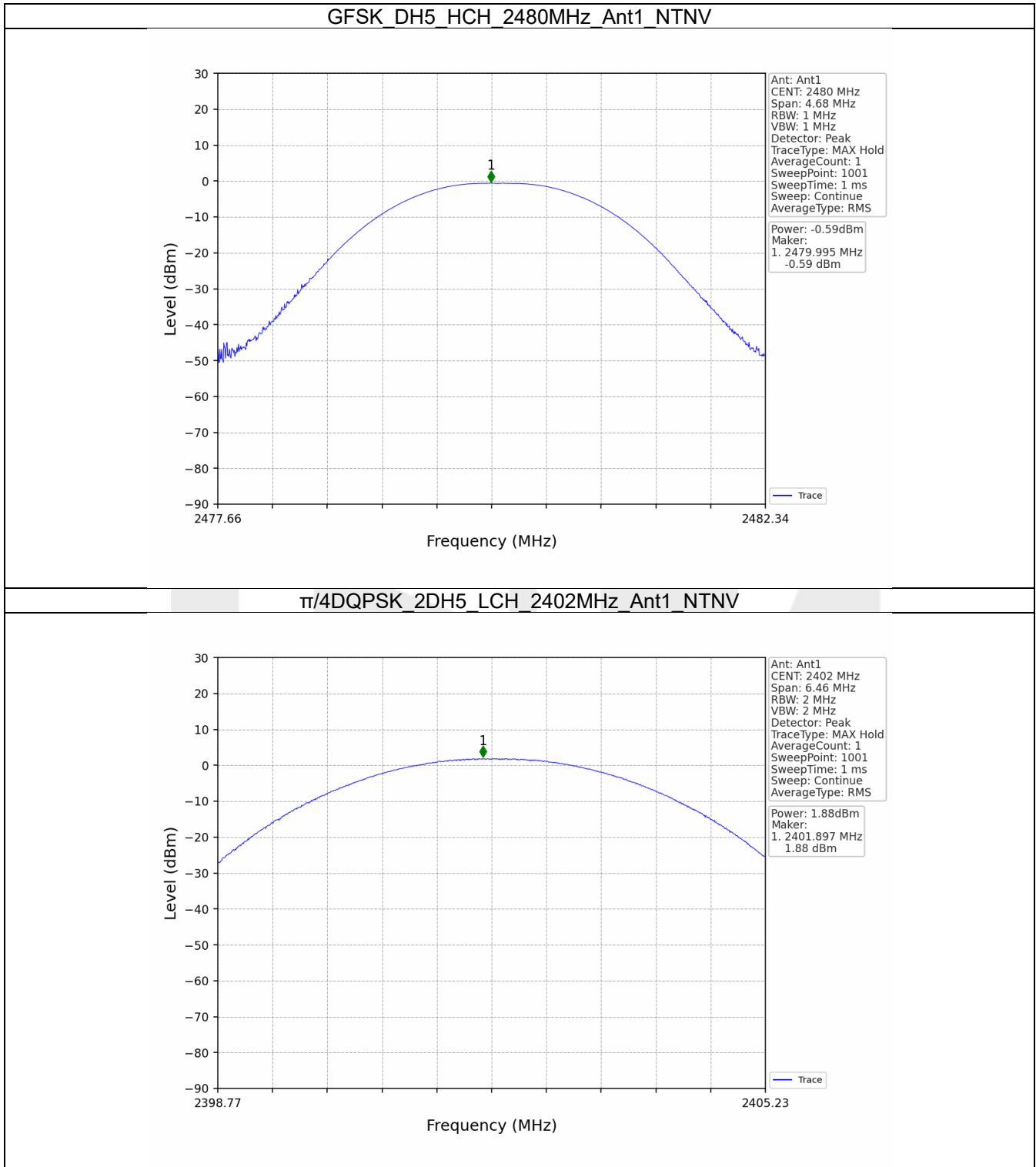
3.1 Power

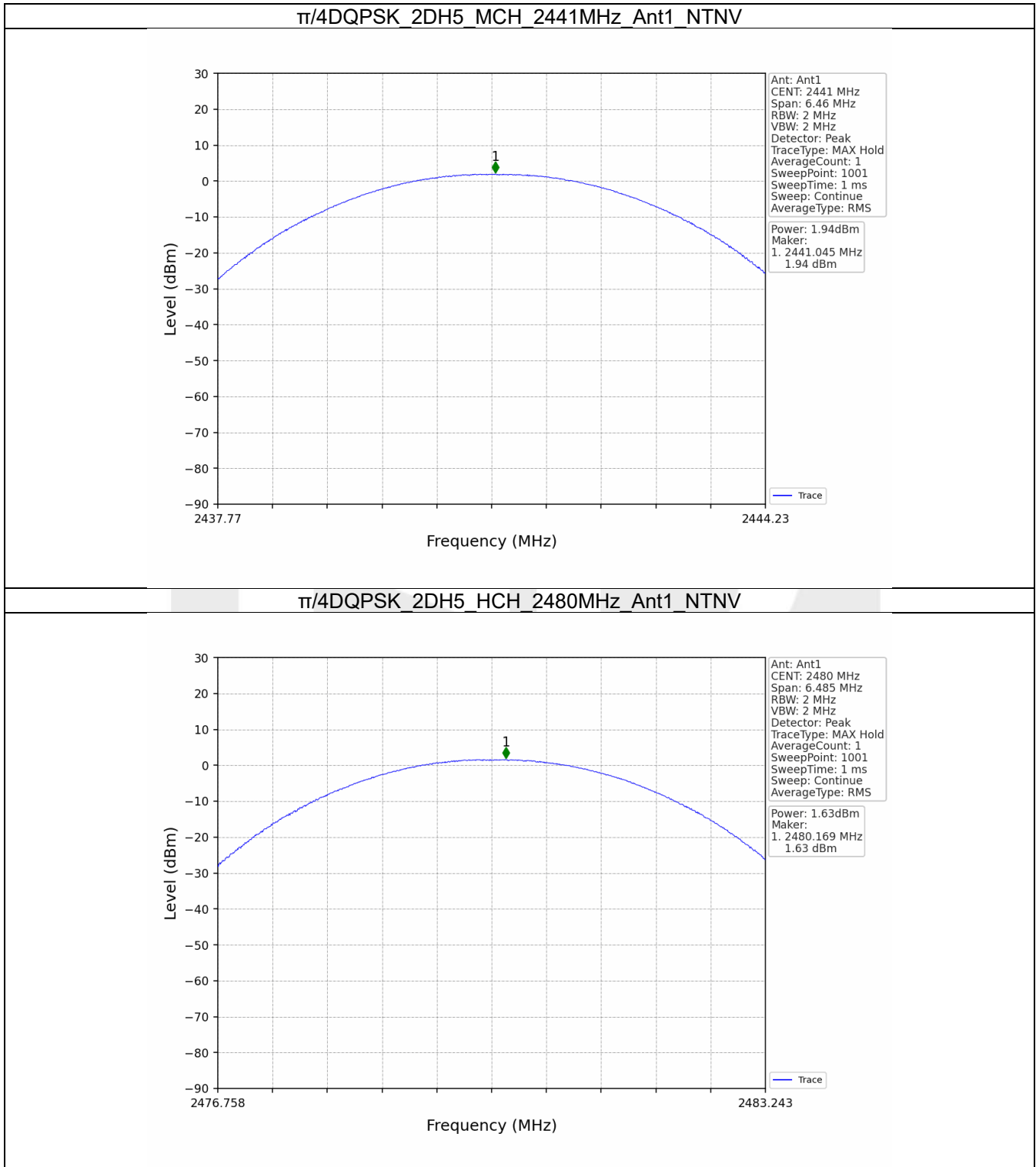
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.27	<=30	Pass
		2441	DH5	-0.19	<=30	Pass
		2480	DH5	-0.59	<=30	Pass
π/4DQPSK	SISO	2402	2DH5	1.88	<=20.97	Pass
		2441	2DH5	1.94	<=20.97	Pass
		2480	2DH5	1.63	<=20.97	Pass

3.1.2 Test Graph







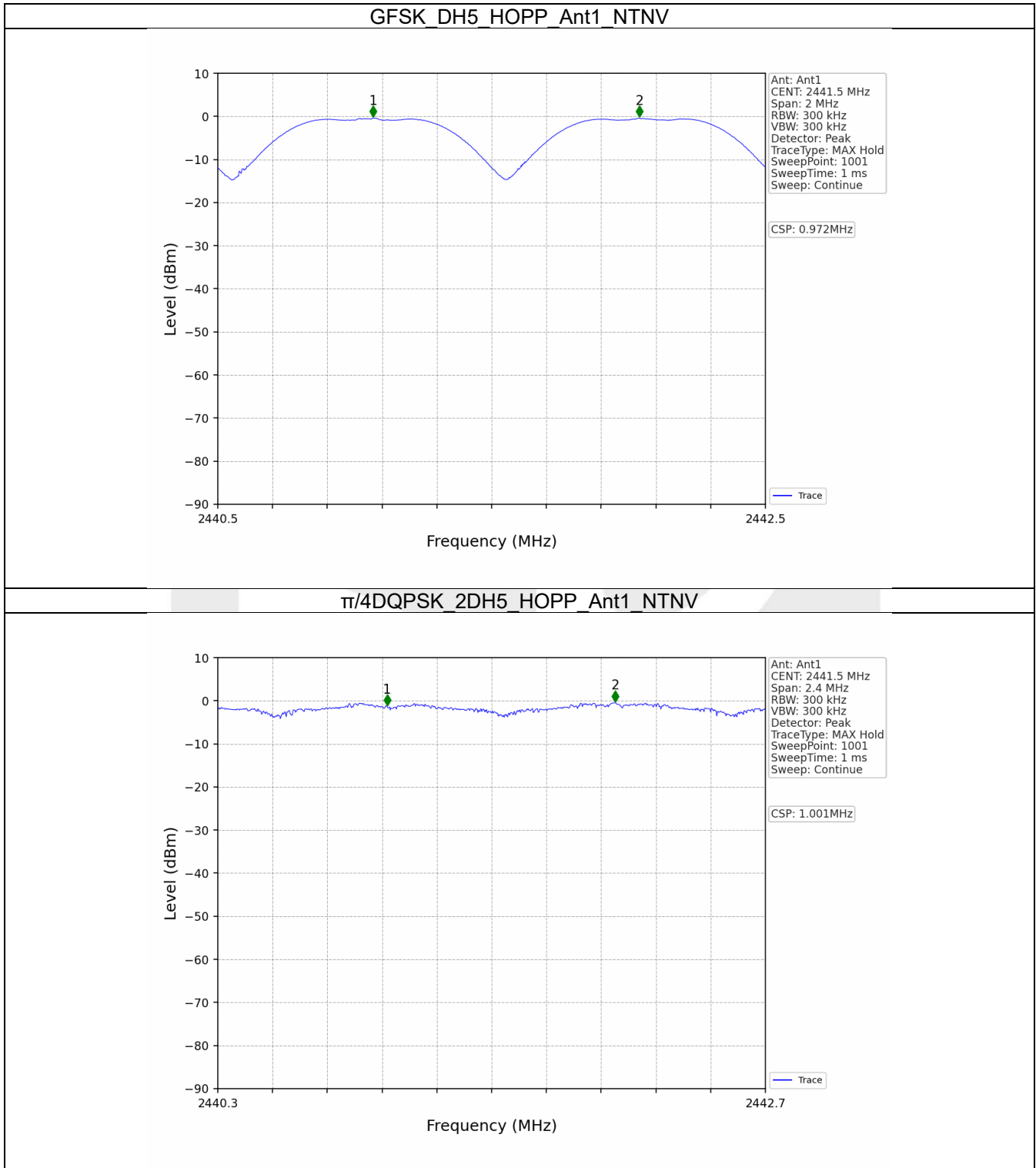
4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.972	0.936	≥ 0.936	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.001	1.297	≥ 0.865	Pass

4.1.2 Test Graph



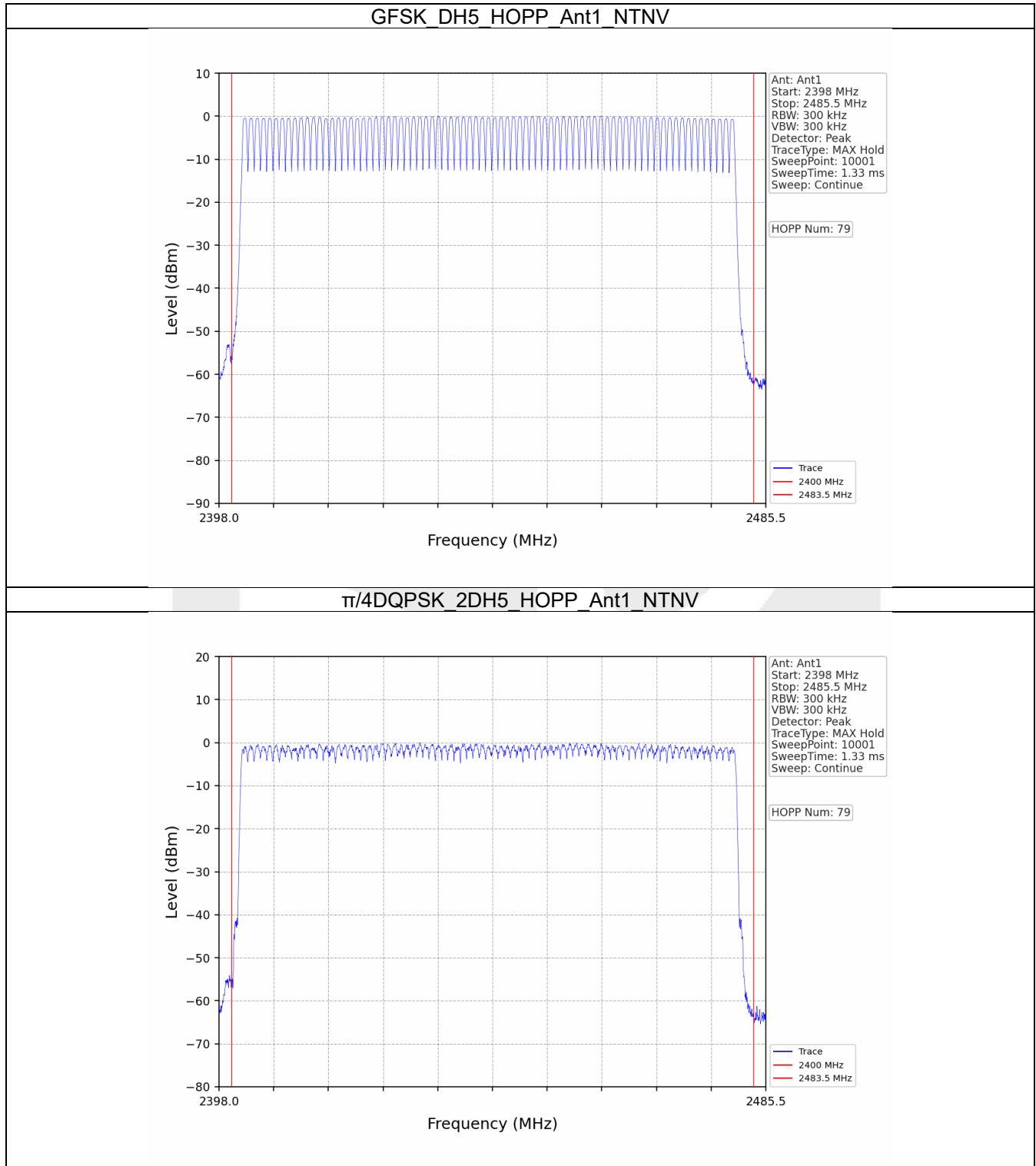
5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

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

5.1.2 Test Graph



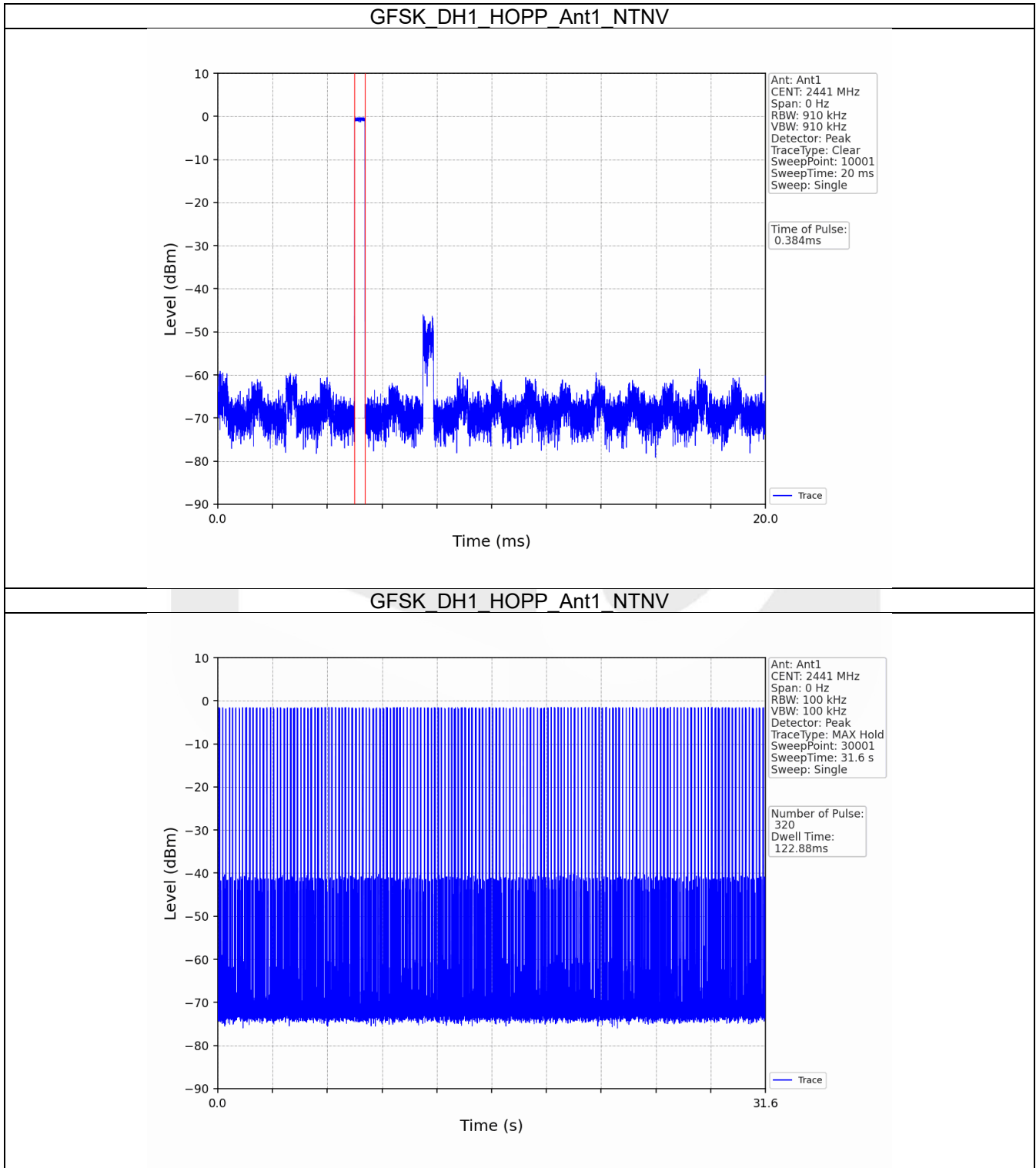
6. Time of Occupancy (Dwell Time)

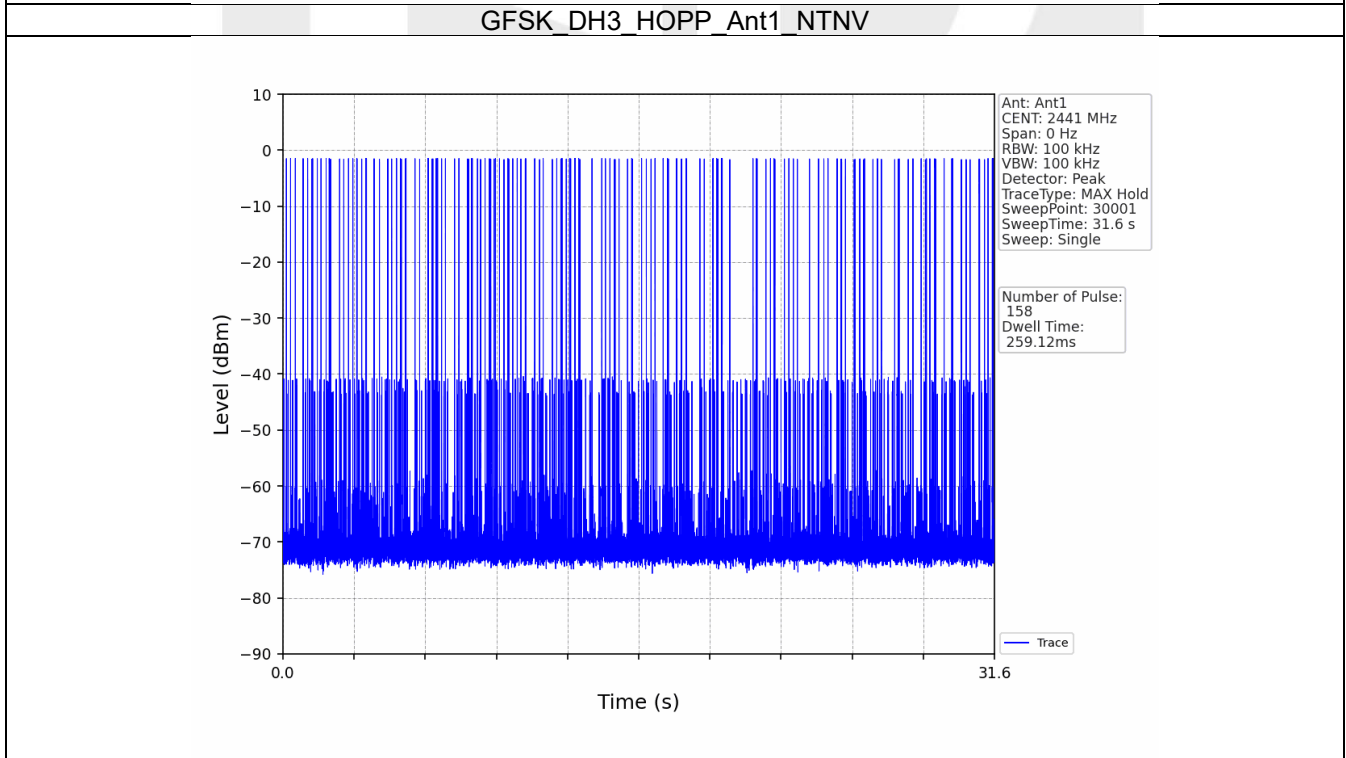
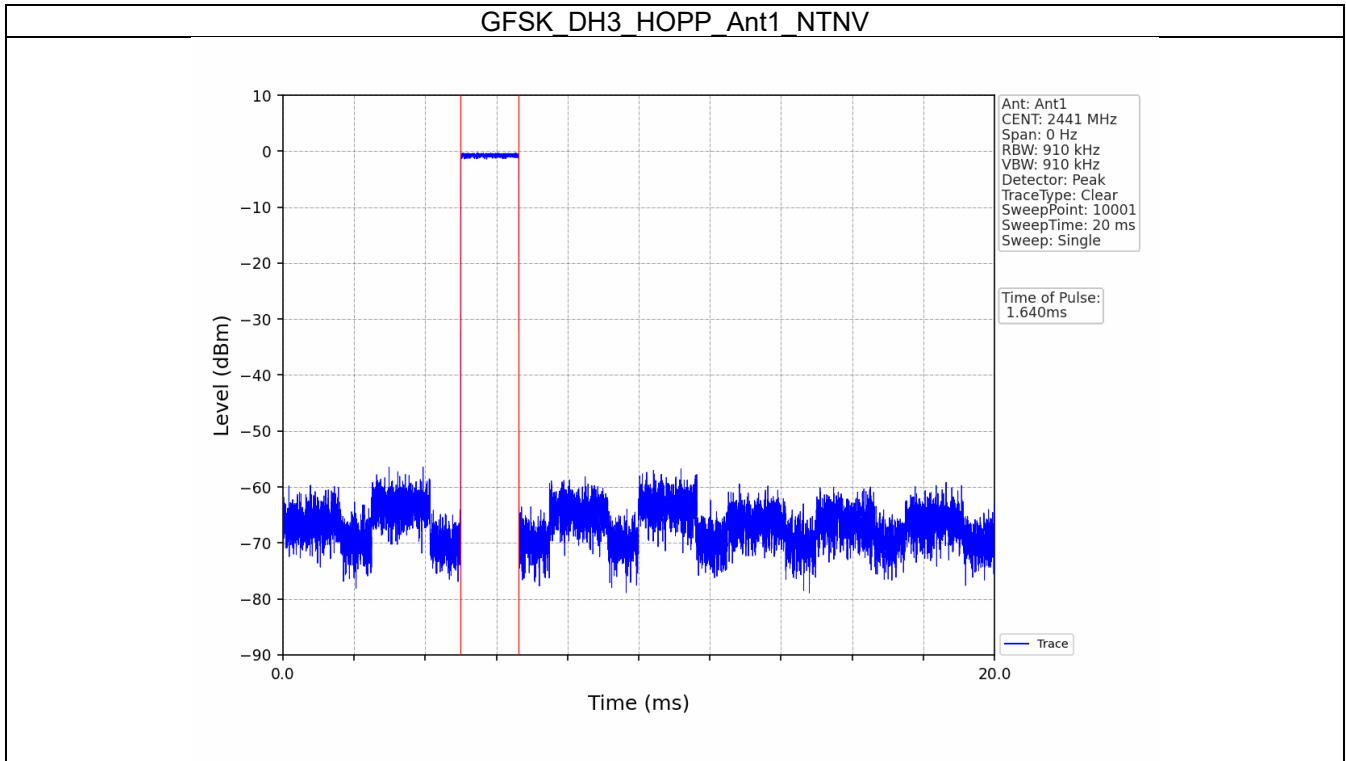
6.1 Ant1

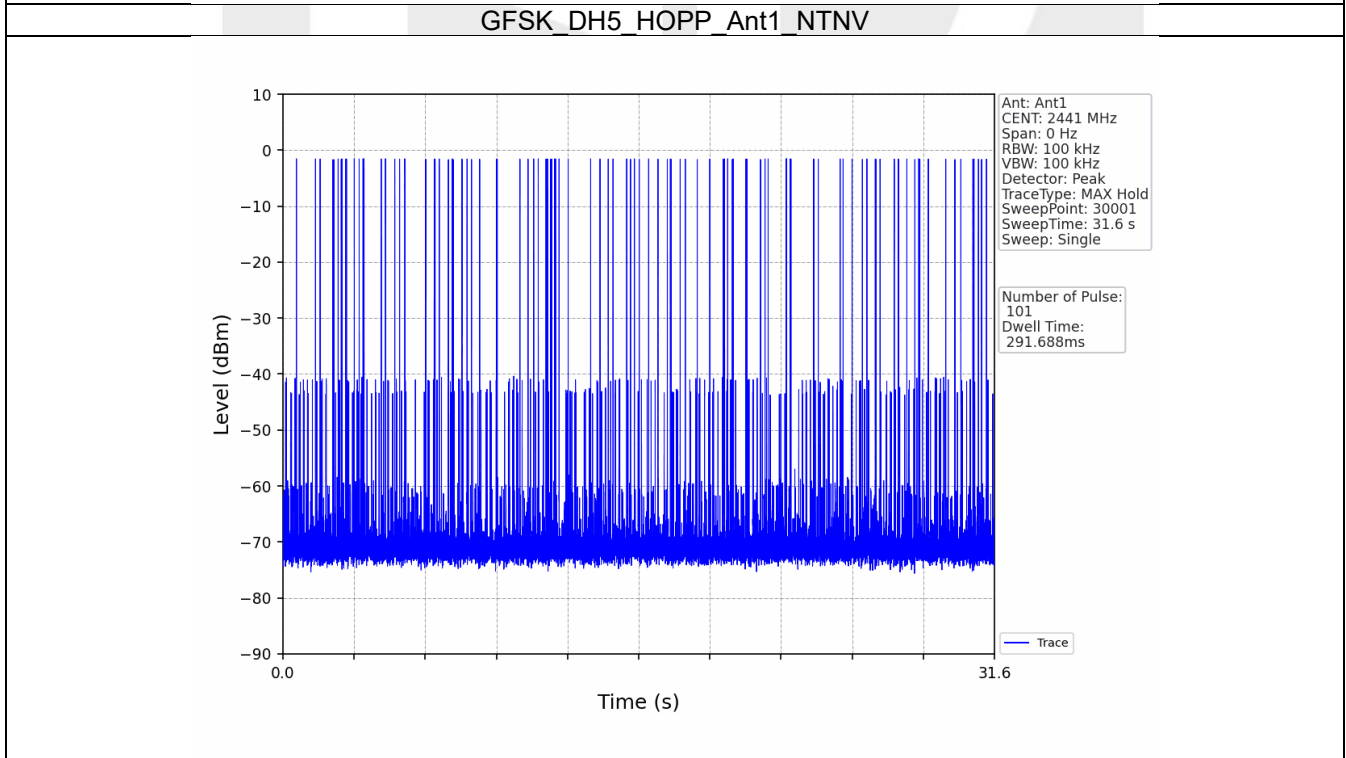
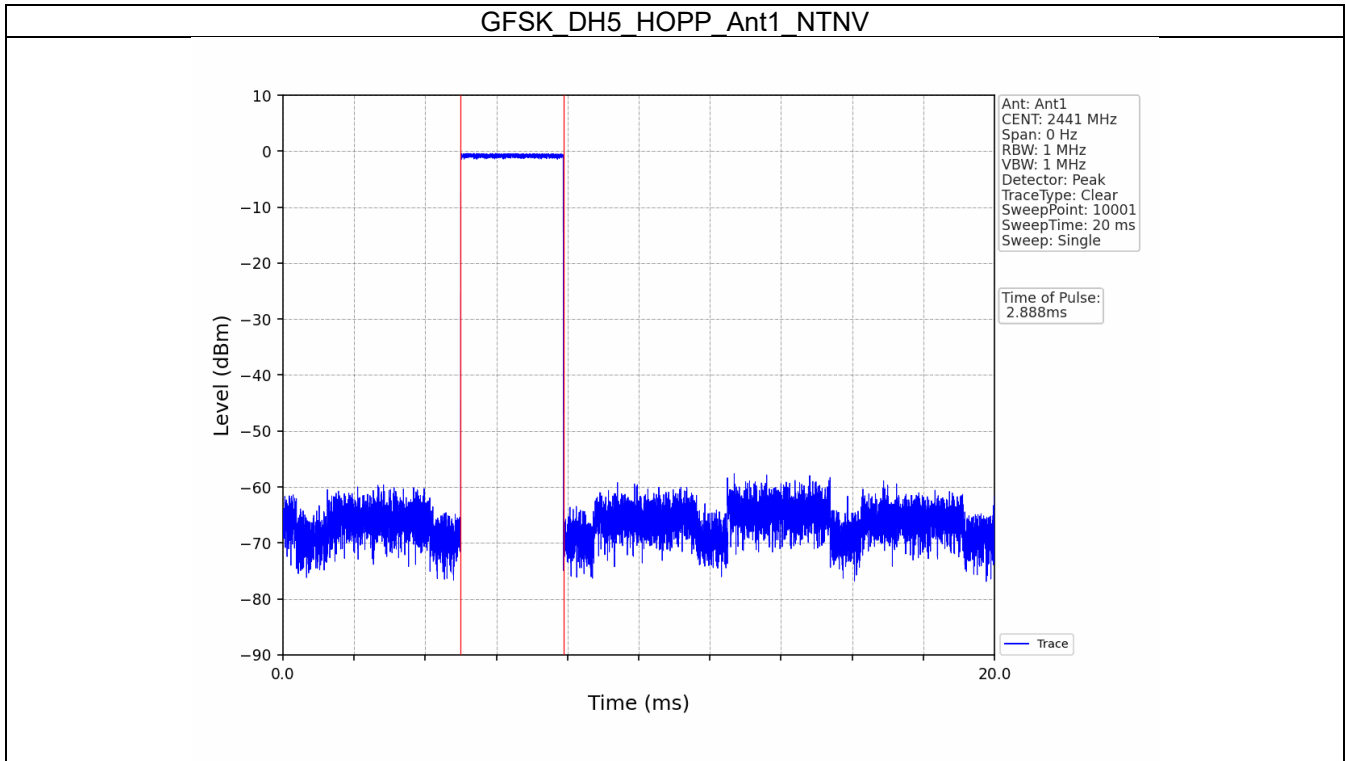
6.1.1 Test Result

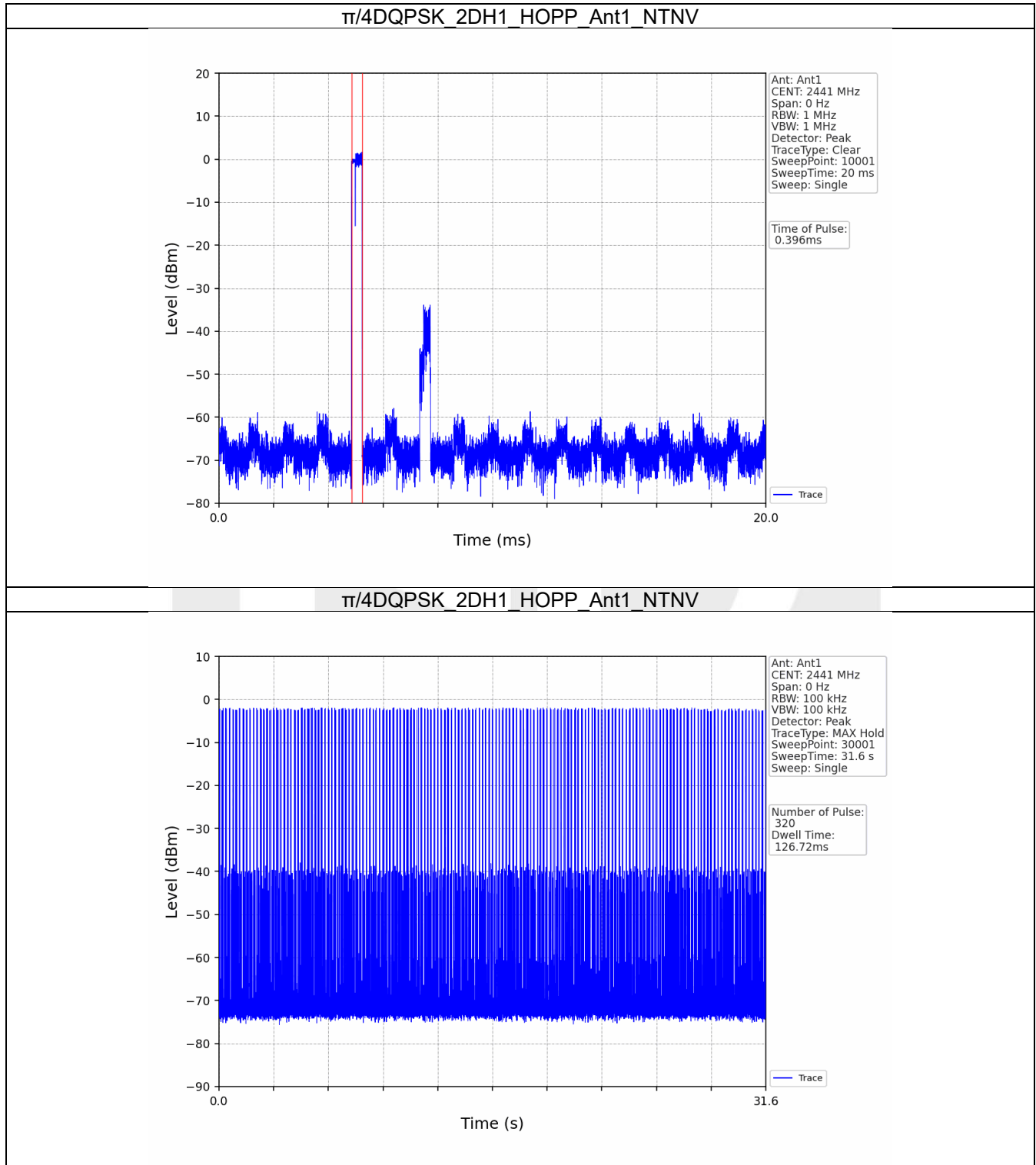
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	158	259.120	<=400	Pass
			DH5	2.888	31.600	101	291.688	<=400	Pass
π/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.650	31.600	155	255.750	<=400	Pass
			2DH5	2.896	31.600	130	376.480	<=400	Pass

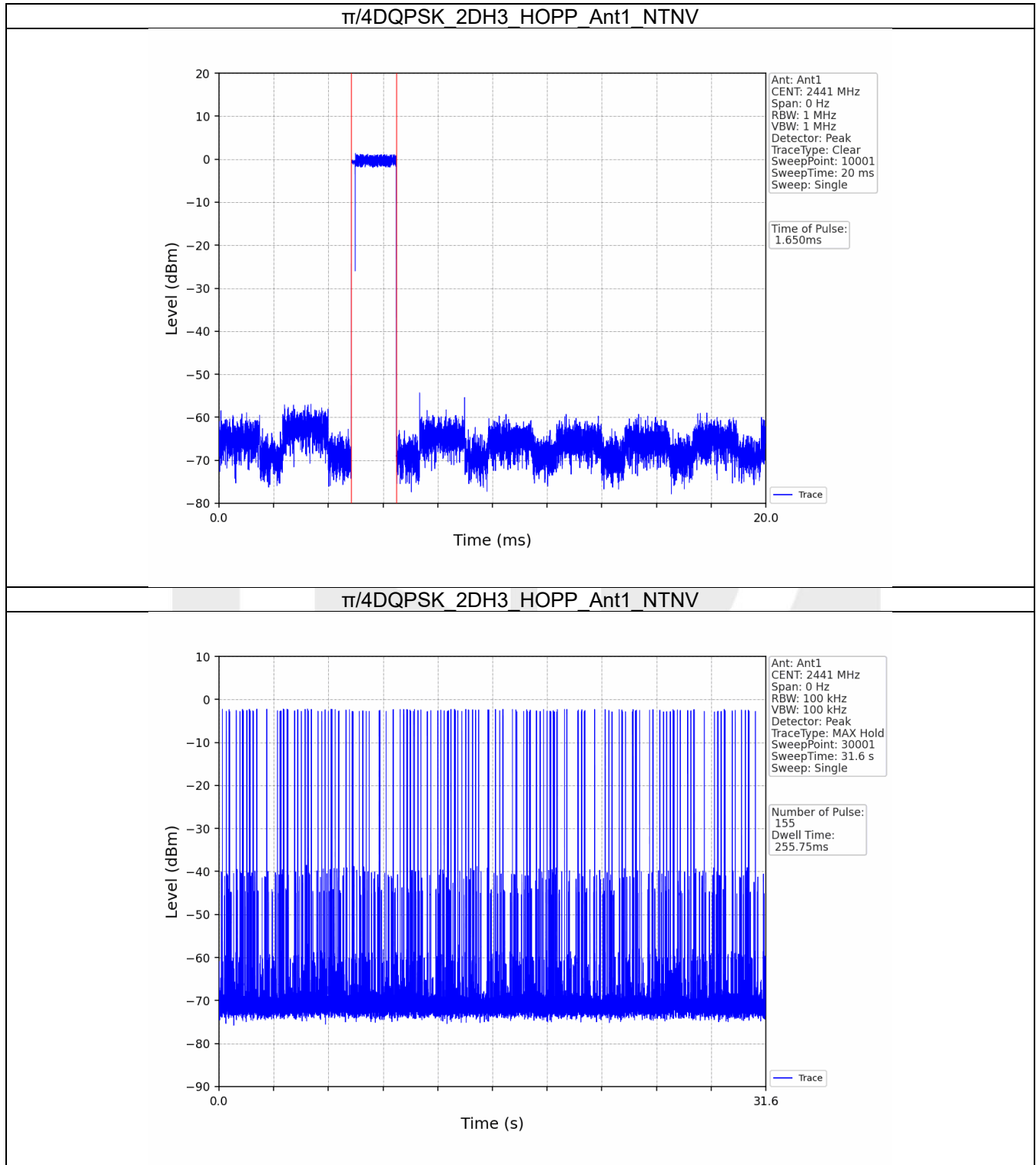
6.1.2 Test Graph

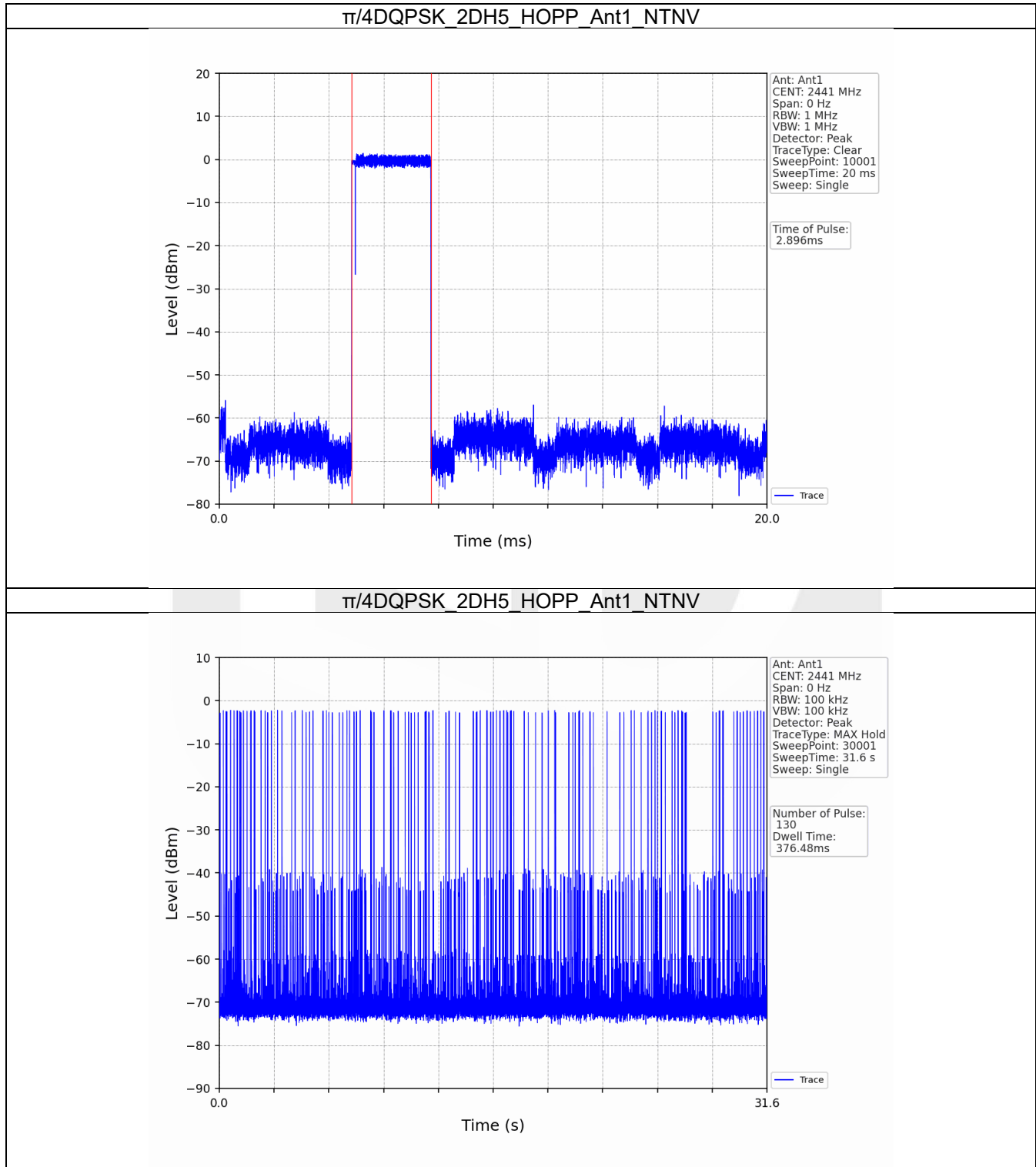












7. Unwanted Emissions In Non-restricted Frequency Bands

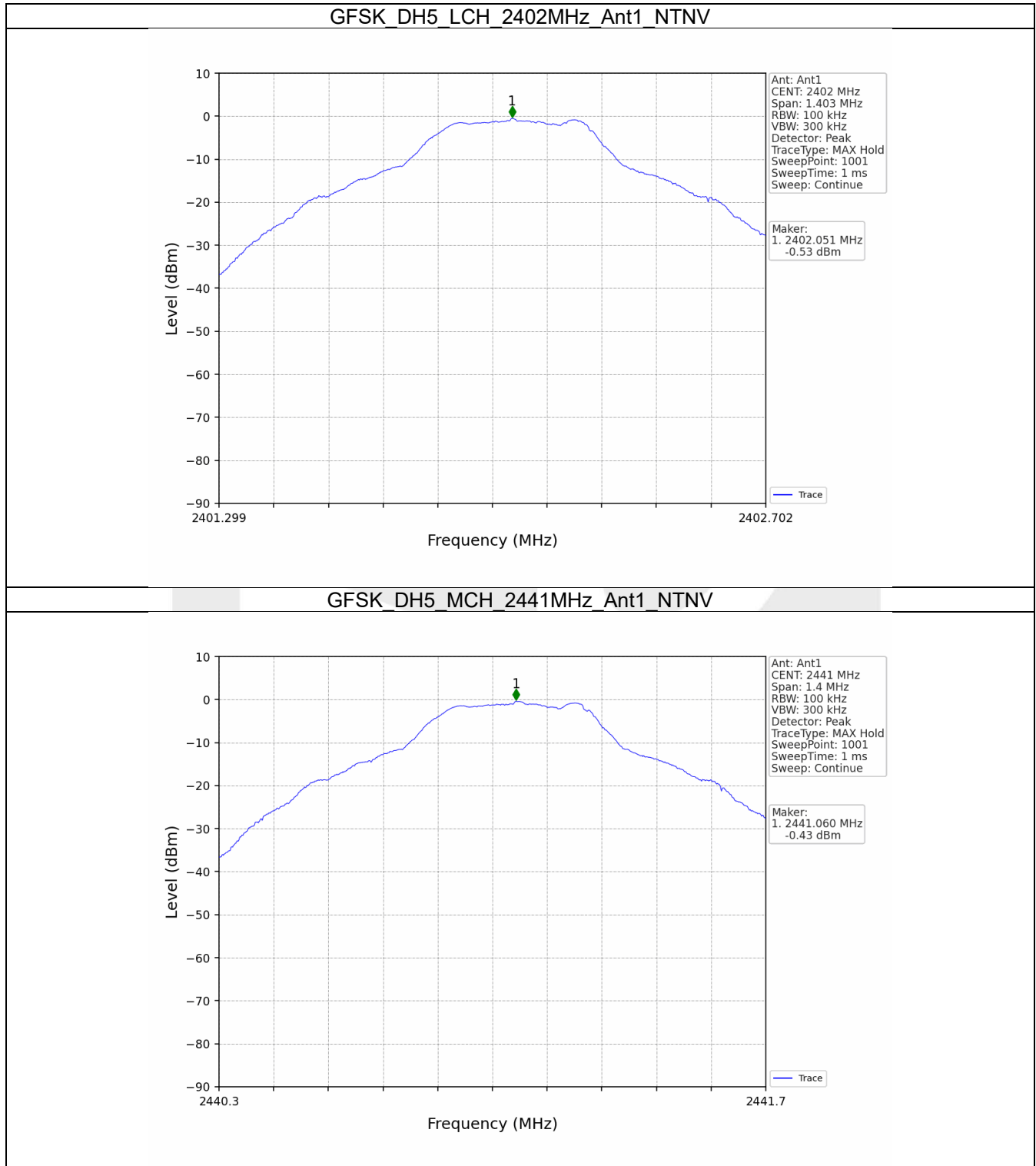
7.1 Ref

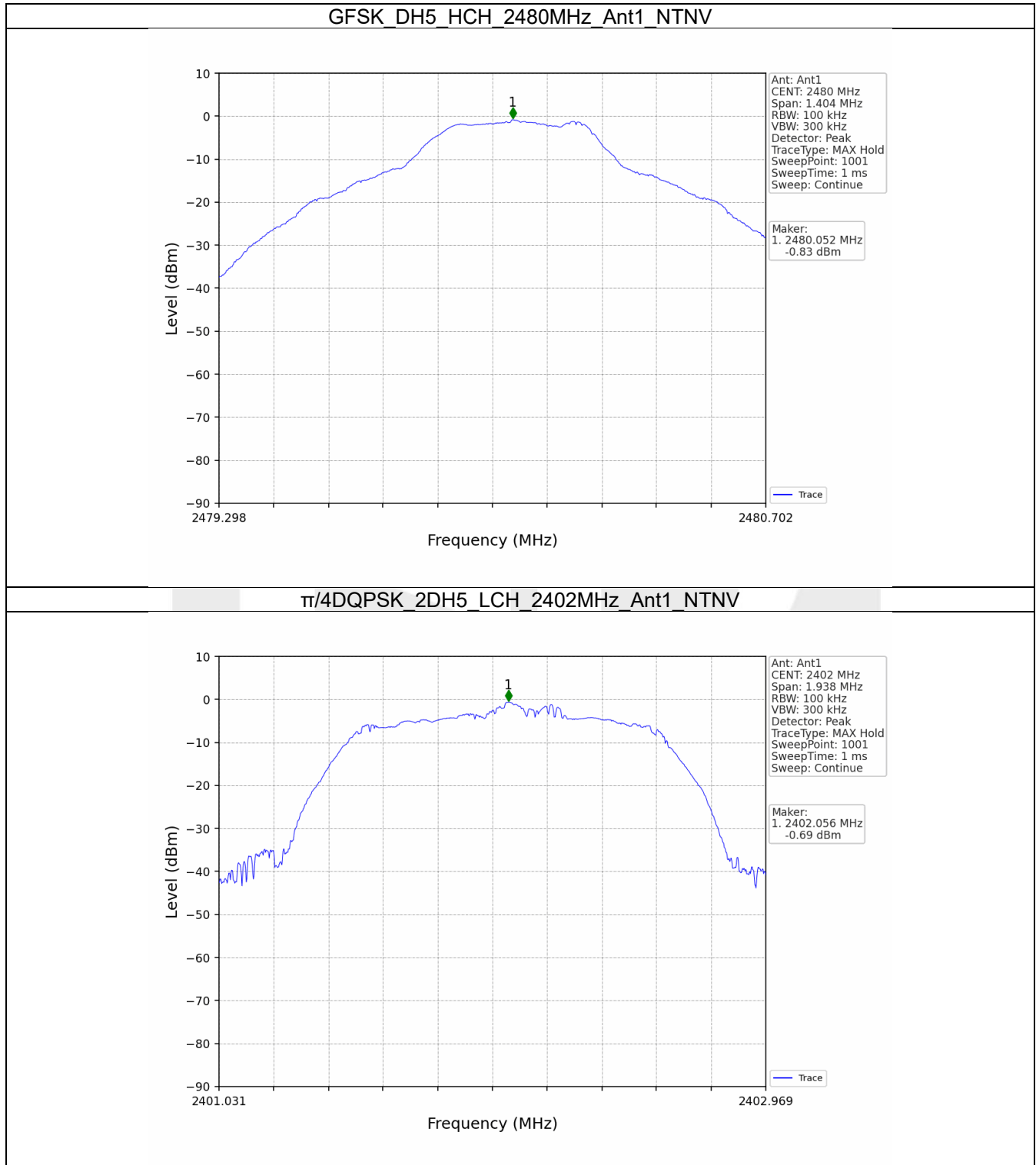
7.1.1 Test Result

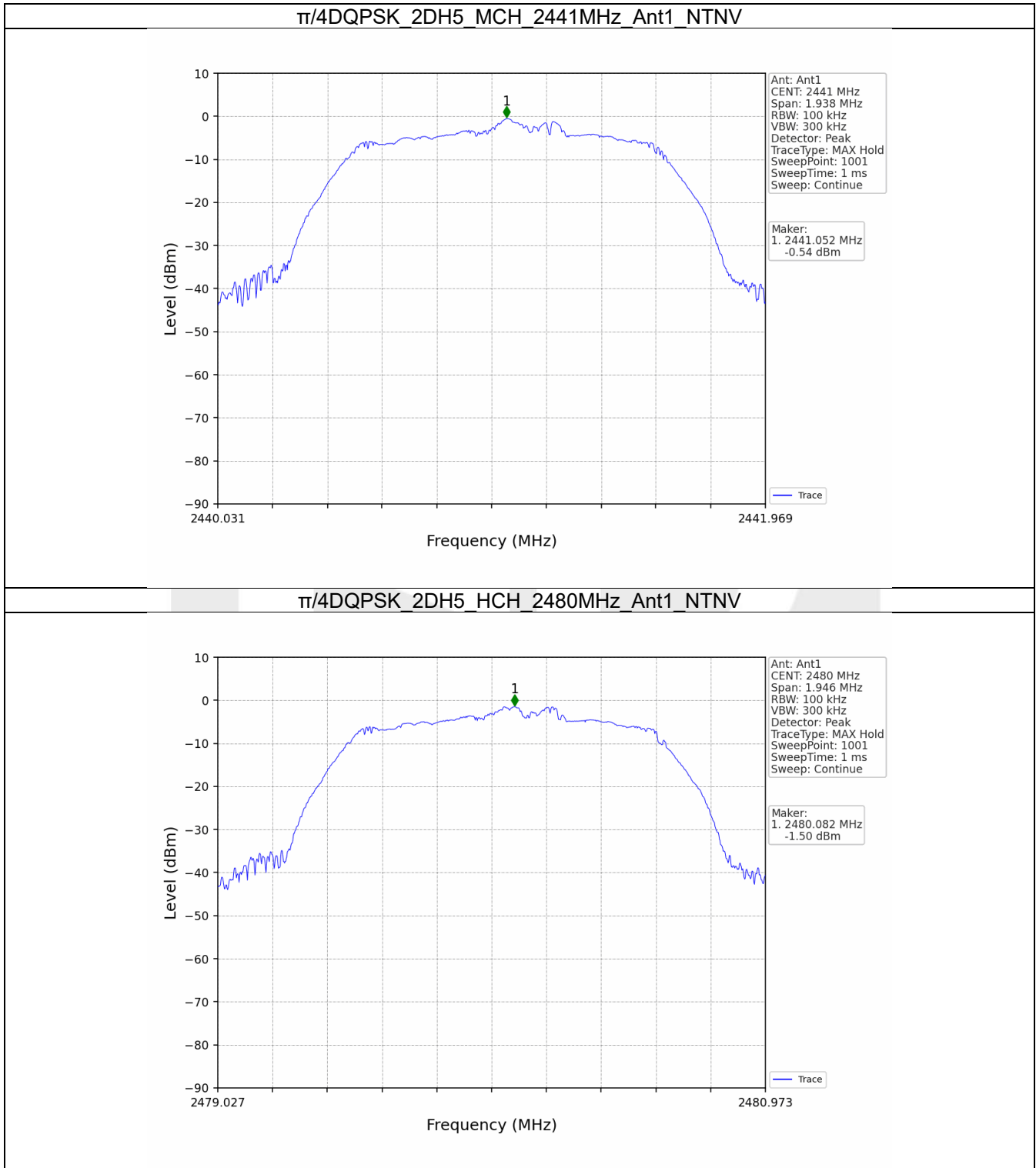
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.53
		2441	DH5	1	-0.43
		2480	DH5	1	-0.83
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-0.69
		2441	2DH5	1	-0.54
		2480	2DH5	1	-1.50

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

7.1.2 Test Graph





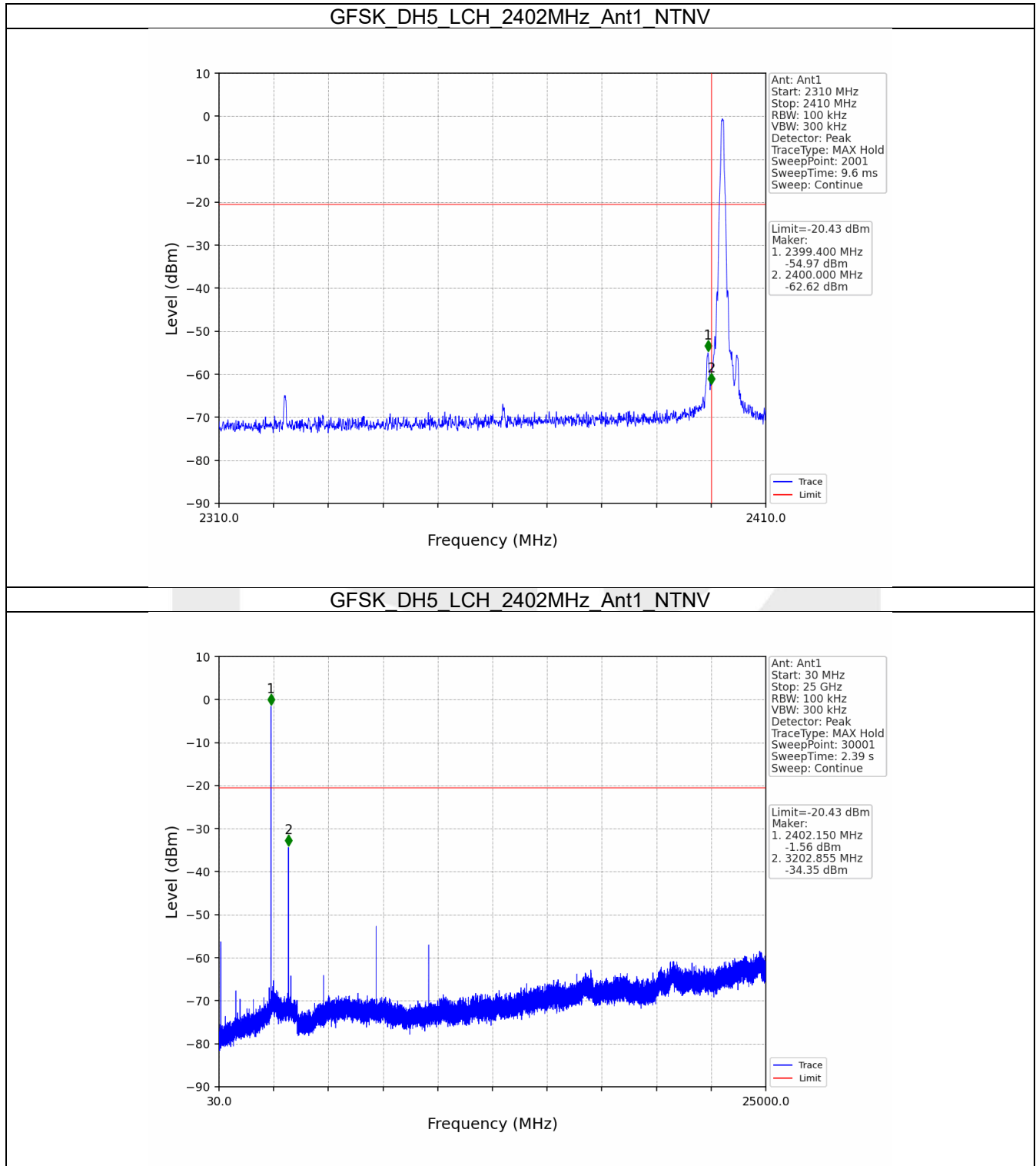


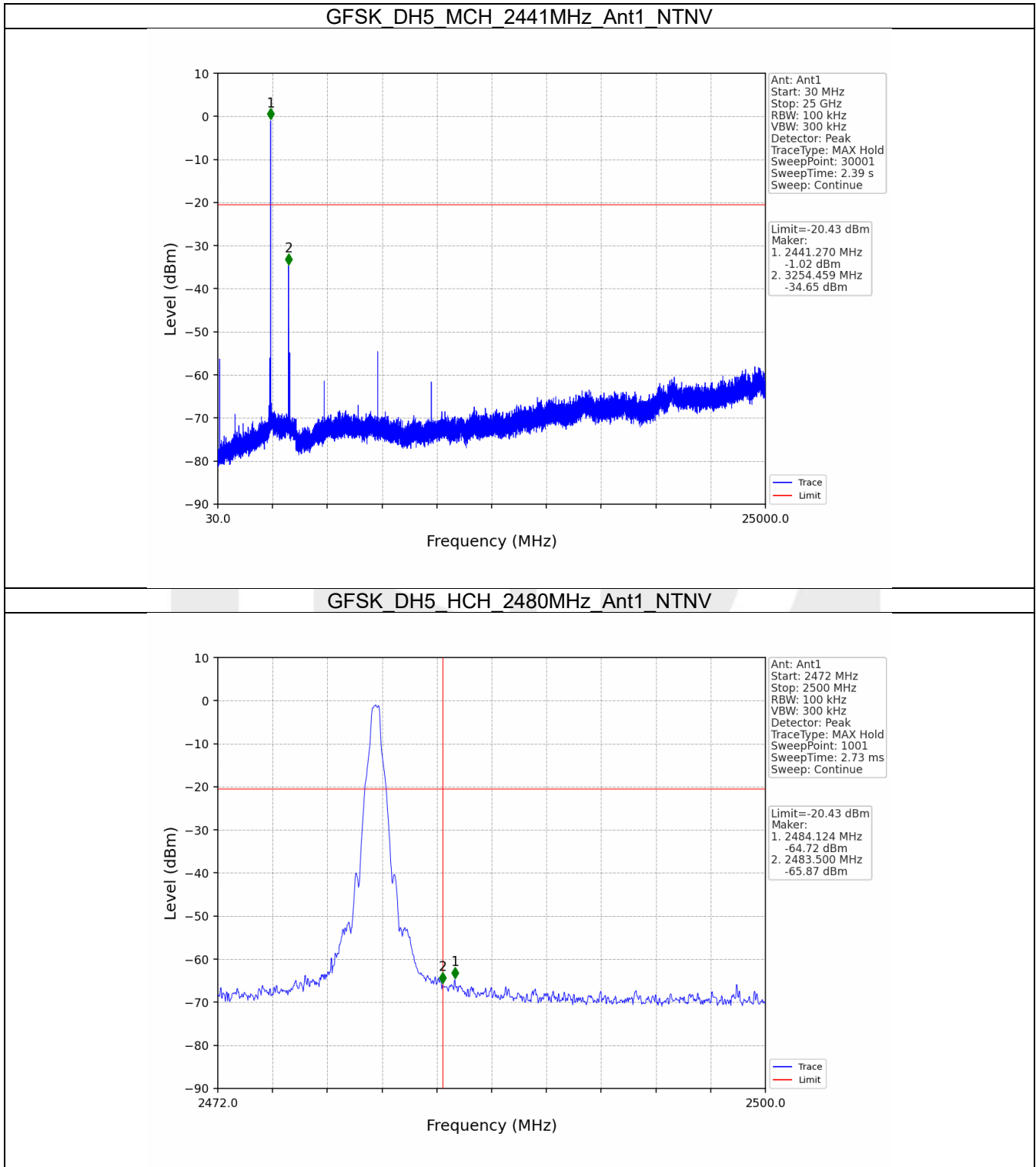
7.2 CSE
7.2.1 Test Result

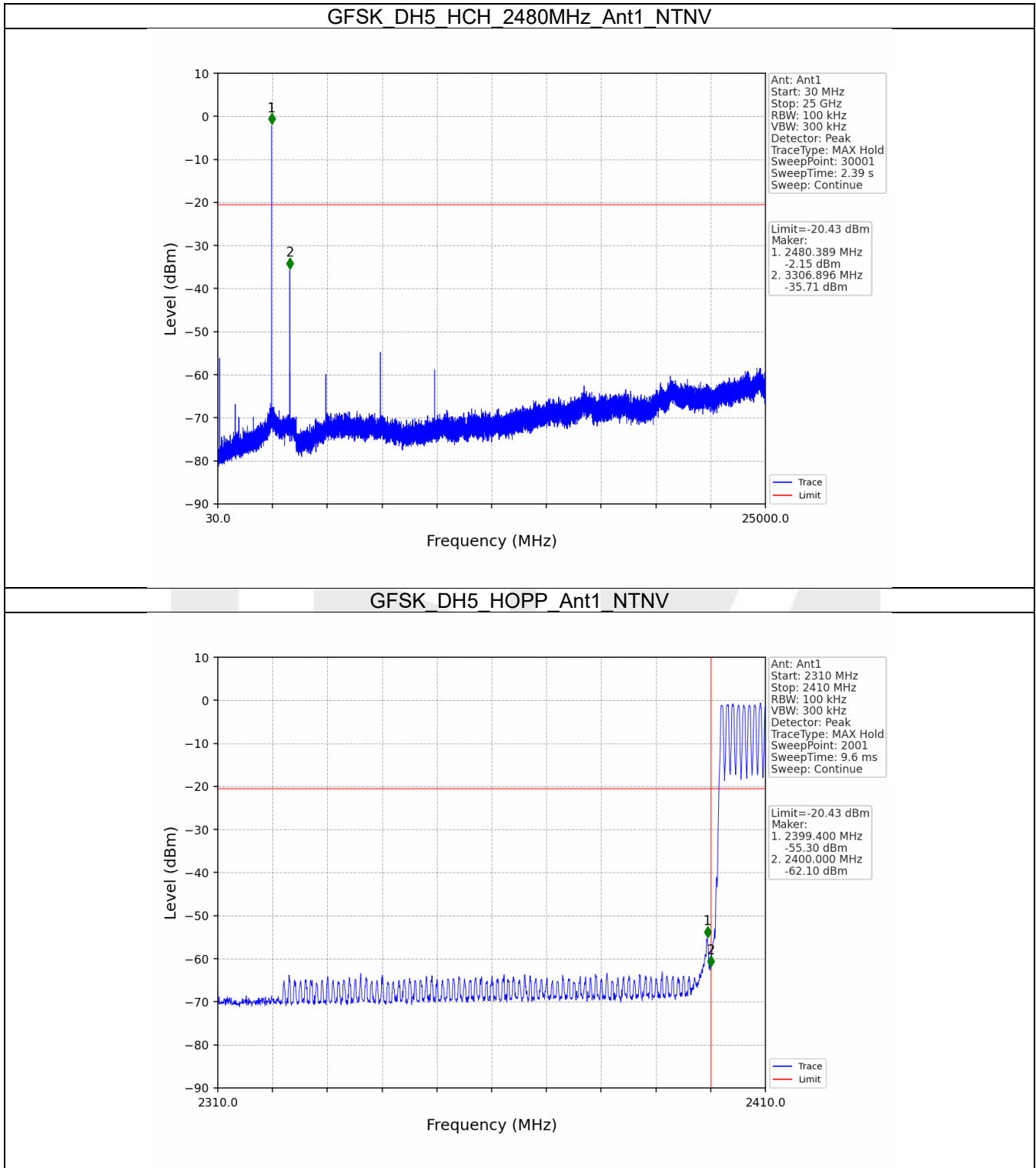
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.43	-20.43	Pass
		2441	DH5	1	-0.43	-20.43	Pass
		2480	DH5	1	-0.43	-20.43	Pass
		HOPP	DH5	1	-0.43	-20.43	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-0.54	-20.54	Pass
		2441	2DH5	1	-0.54	-20.54	Pass
		2480	2DH5	1	-0.54	-20.54	Pass
		HOPP	2DH5	1	-0.54	-20.54	Pass

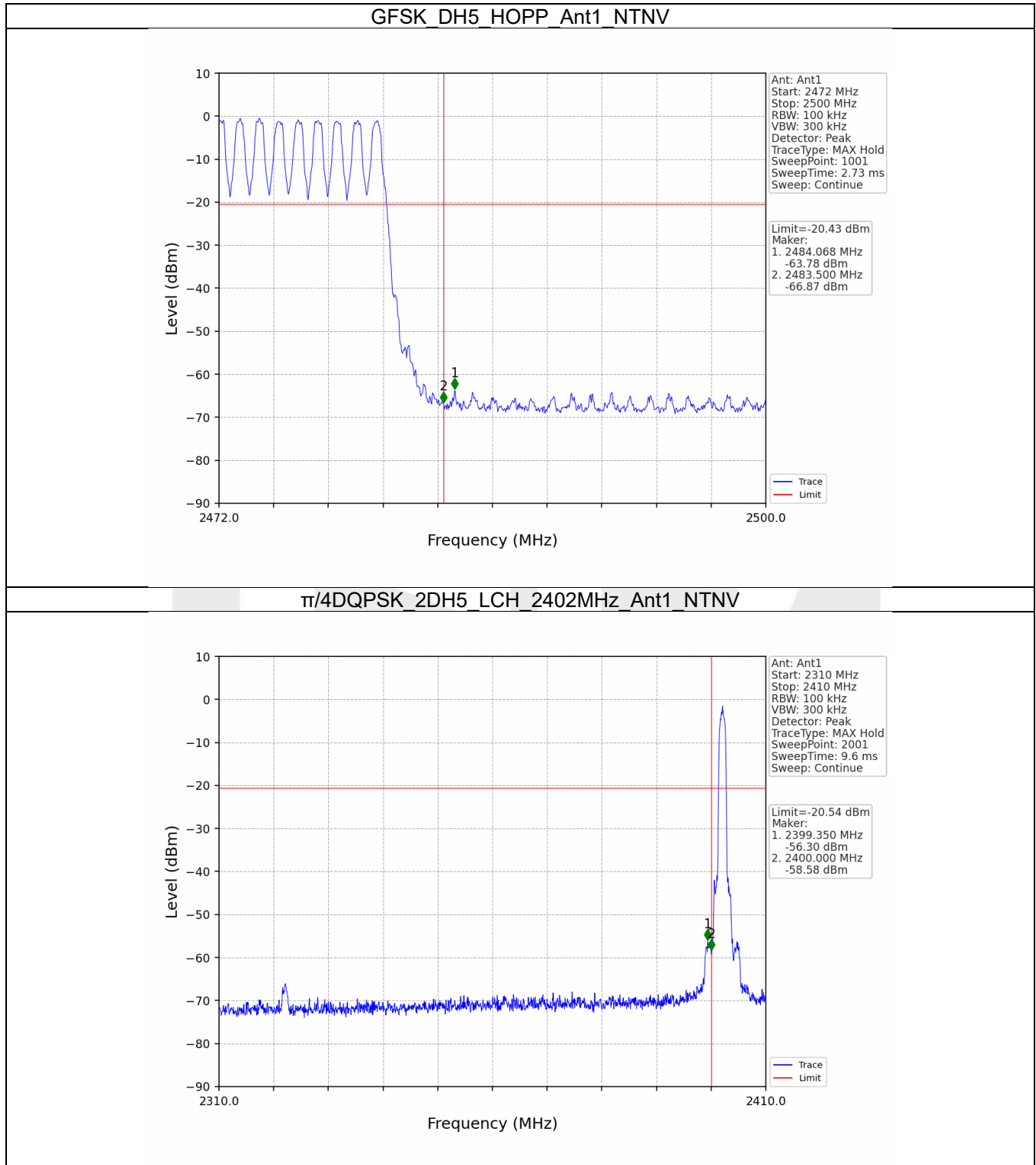
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

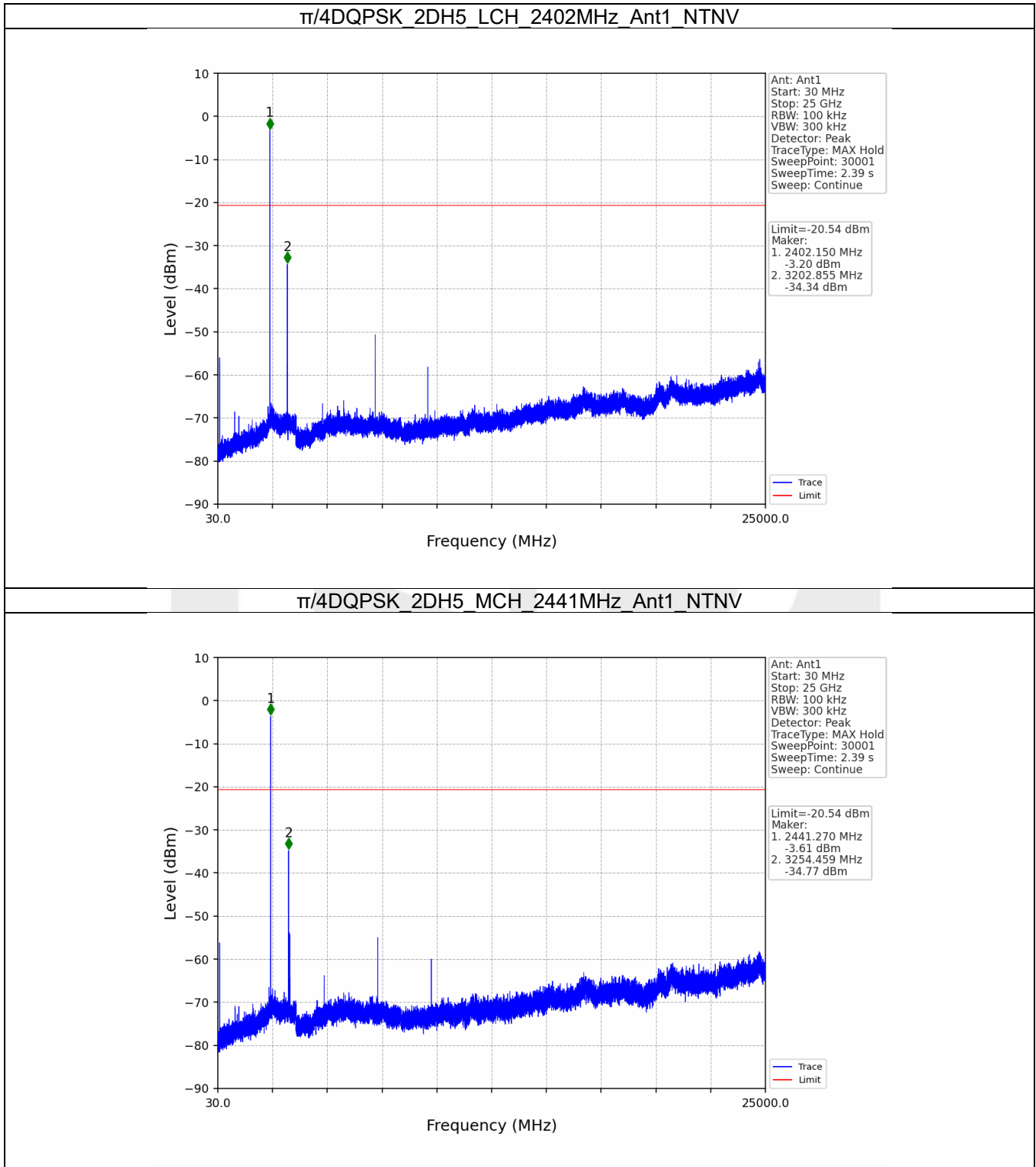
7.2.2 Test Graph

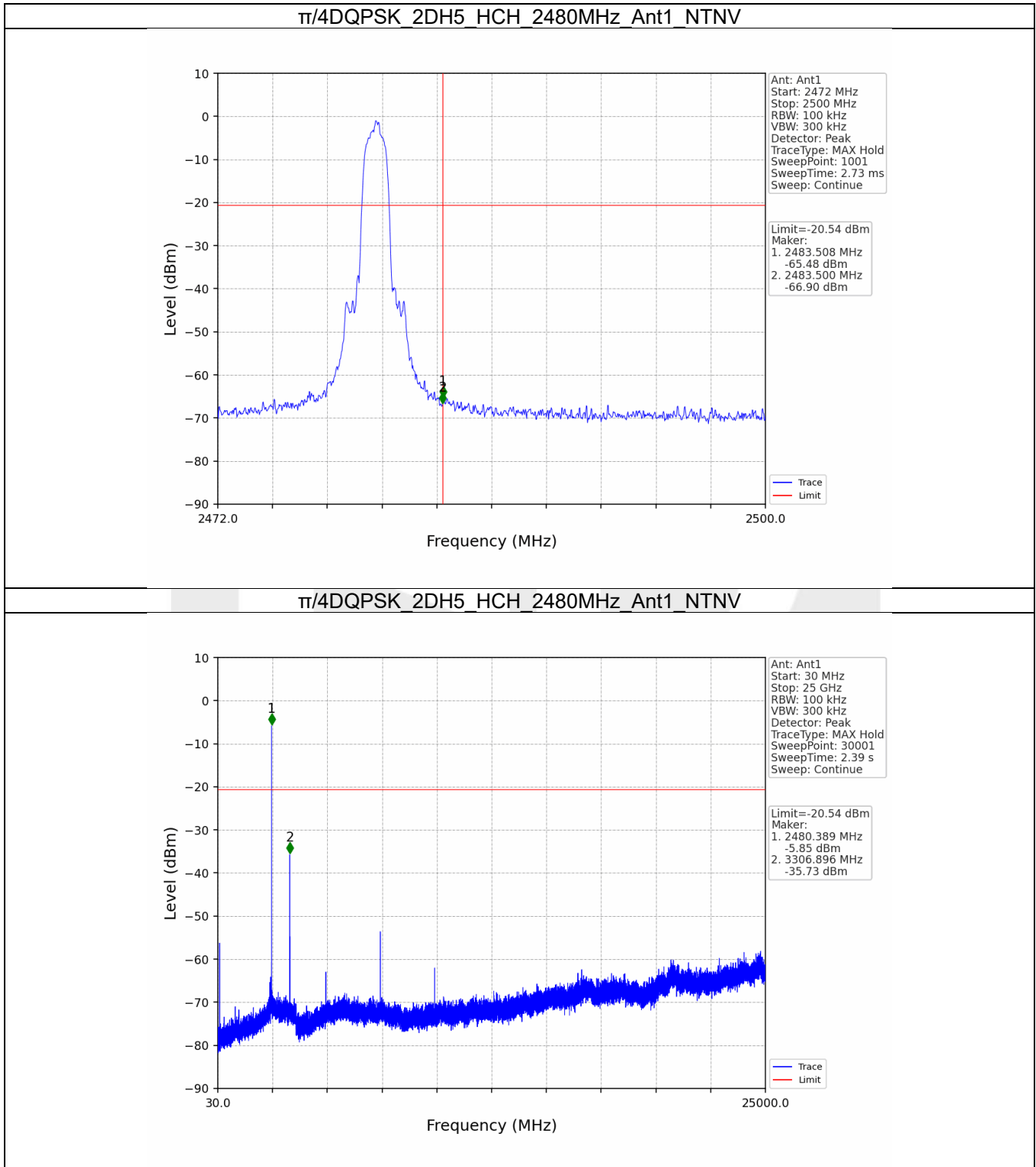


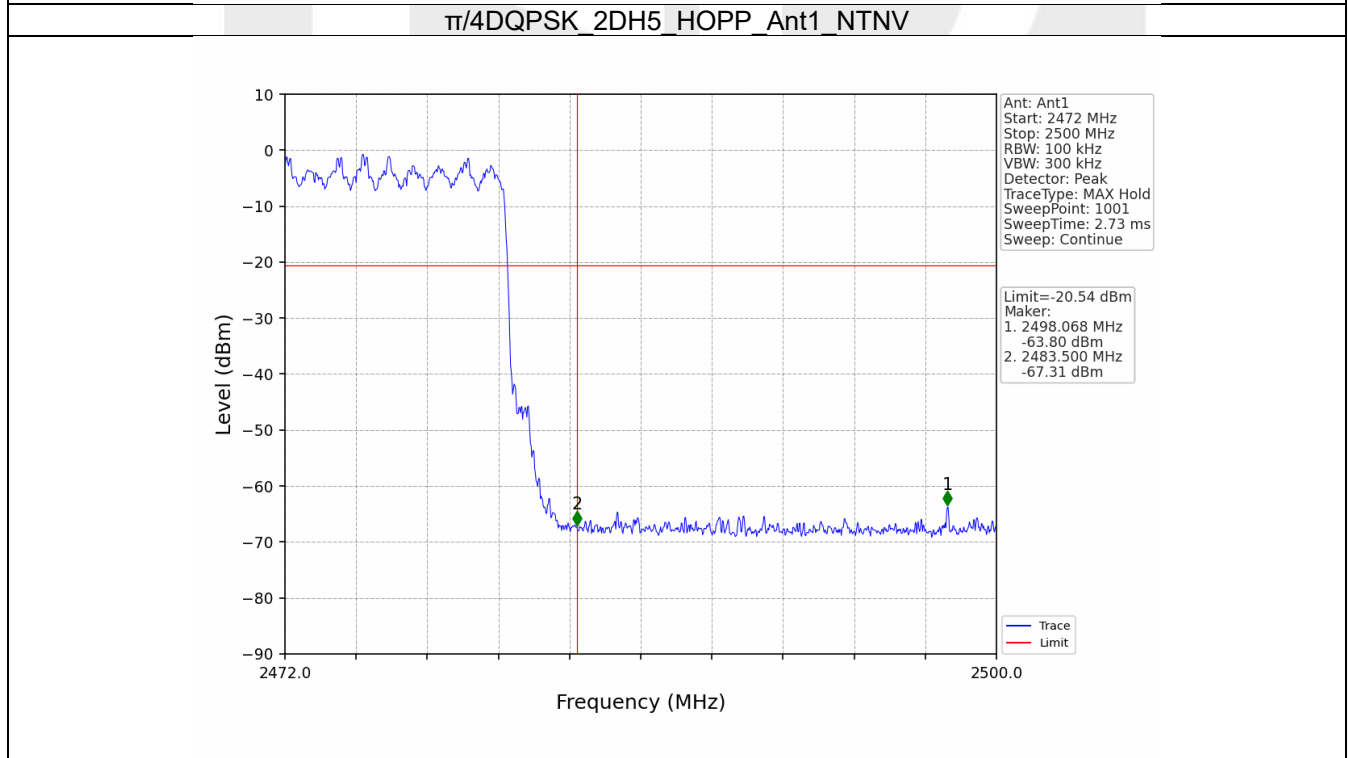
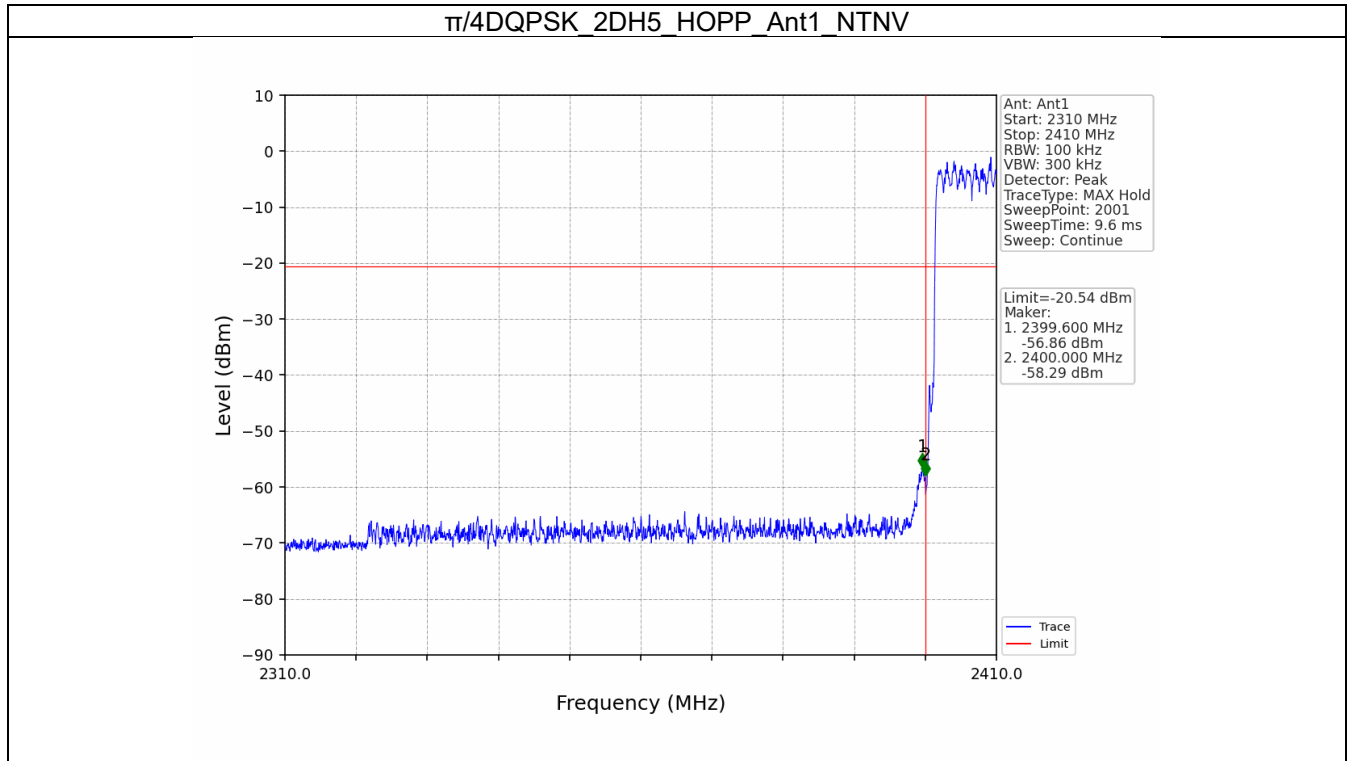












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