

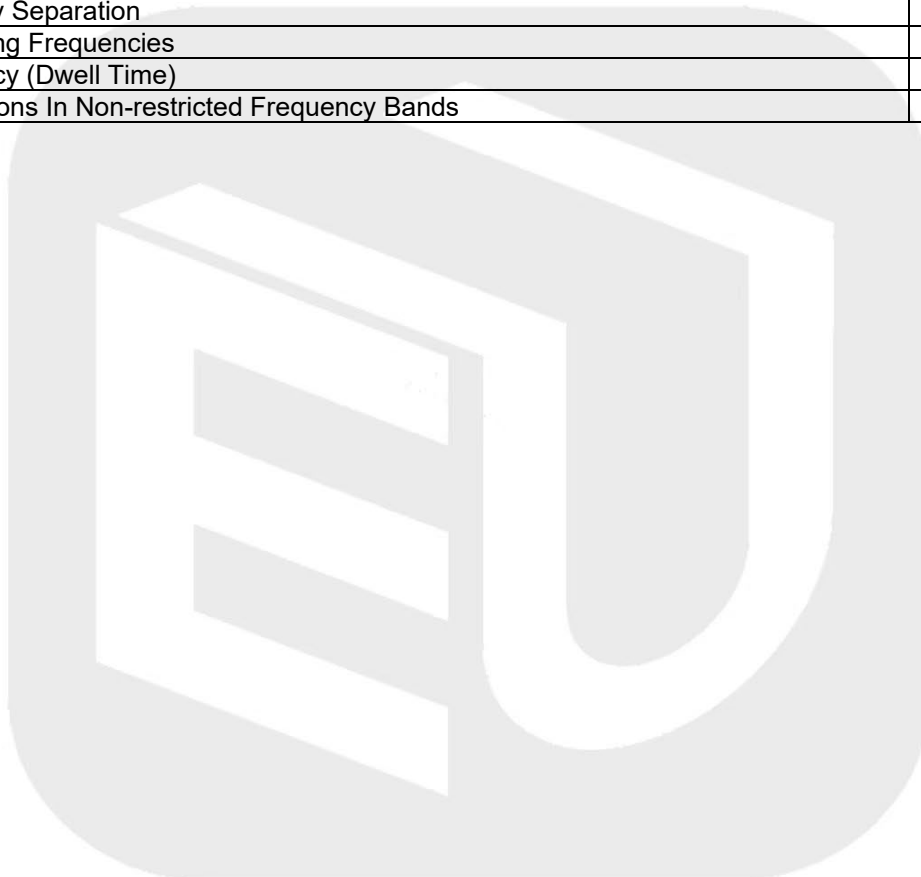
ANNEX D TEST DATA

For

Project No.:	8227EU011101W
Client:	Guangzhou Boju Information Technology Co.,Ltd
Product Name:	car refrigerator
Model No.:	CR05512
FCC ID:	2BBH5-CR05512
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-03-26

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



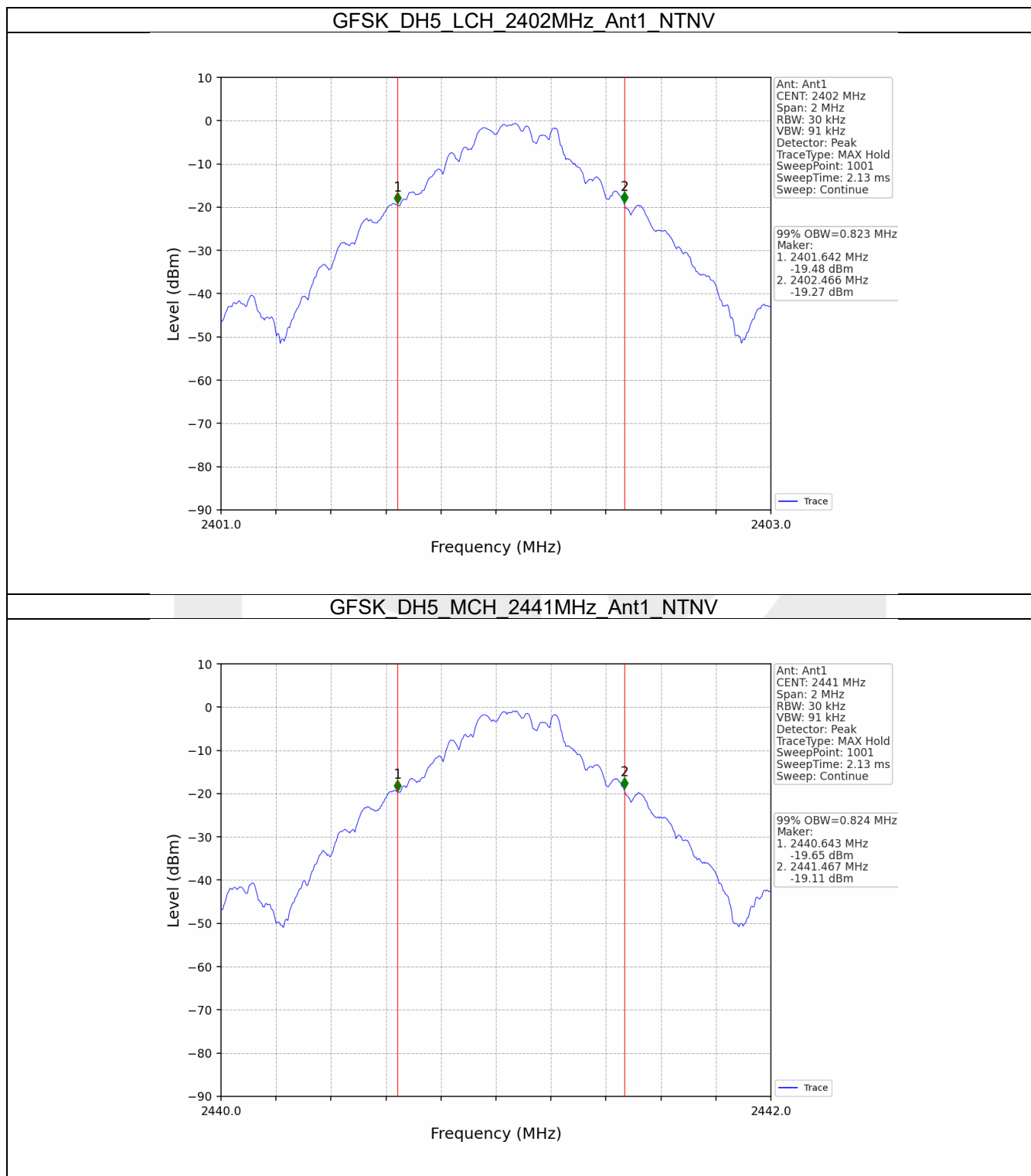
1. Bandwidth

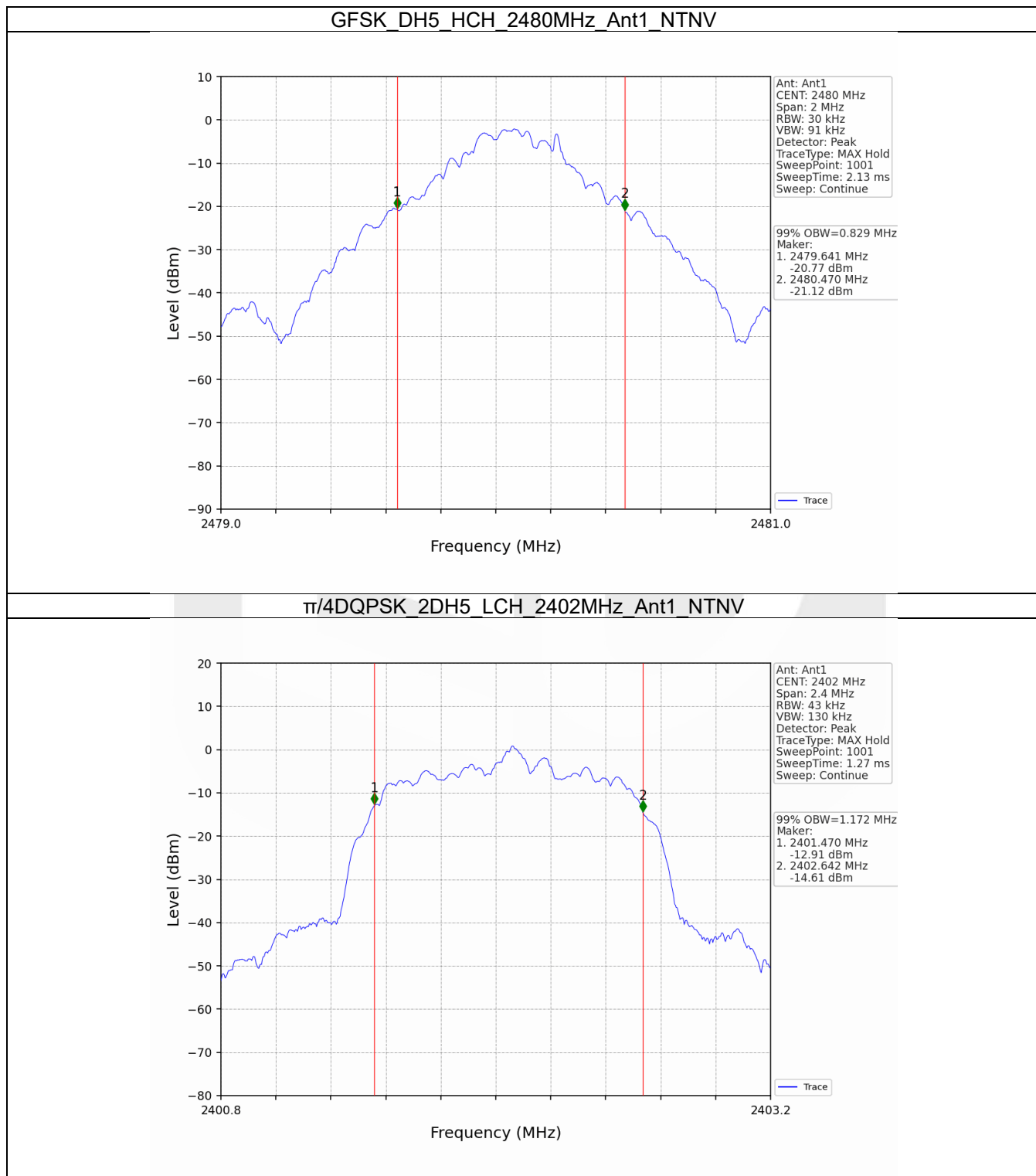
1.1 OBW

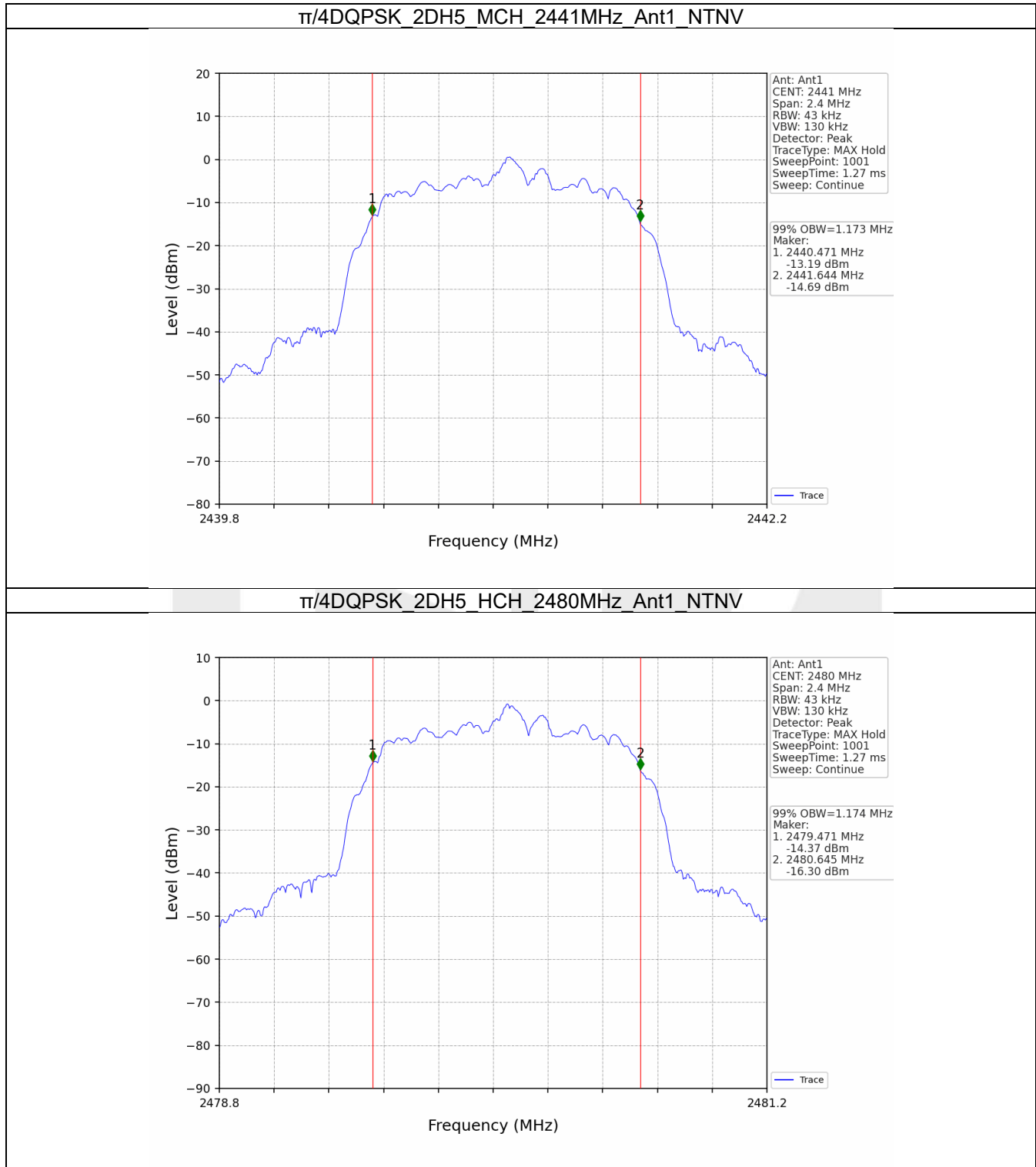
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.823	Pass
		2441	DH5	1	0.824	Pass
		2480	DH5	1	0.829	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.172	Pass
		2441	2DH5	1	1.173	Pass
		2480	2DH5	1	1.174	Pass

1.1.2 Test Graph





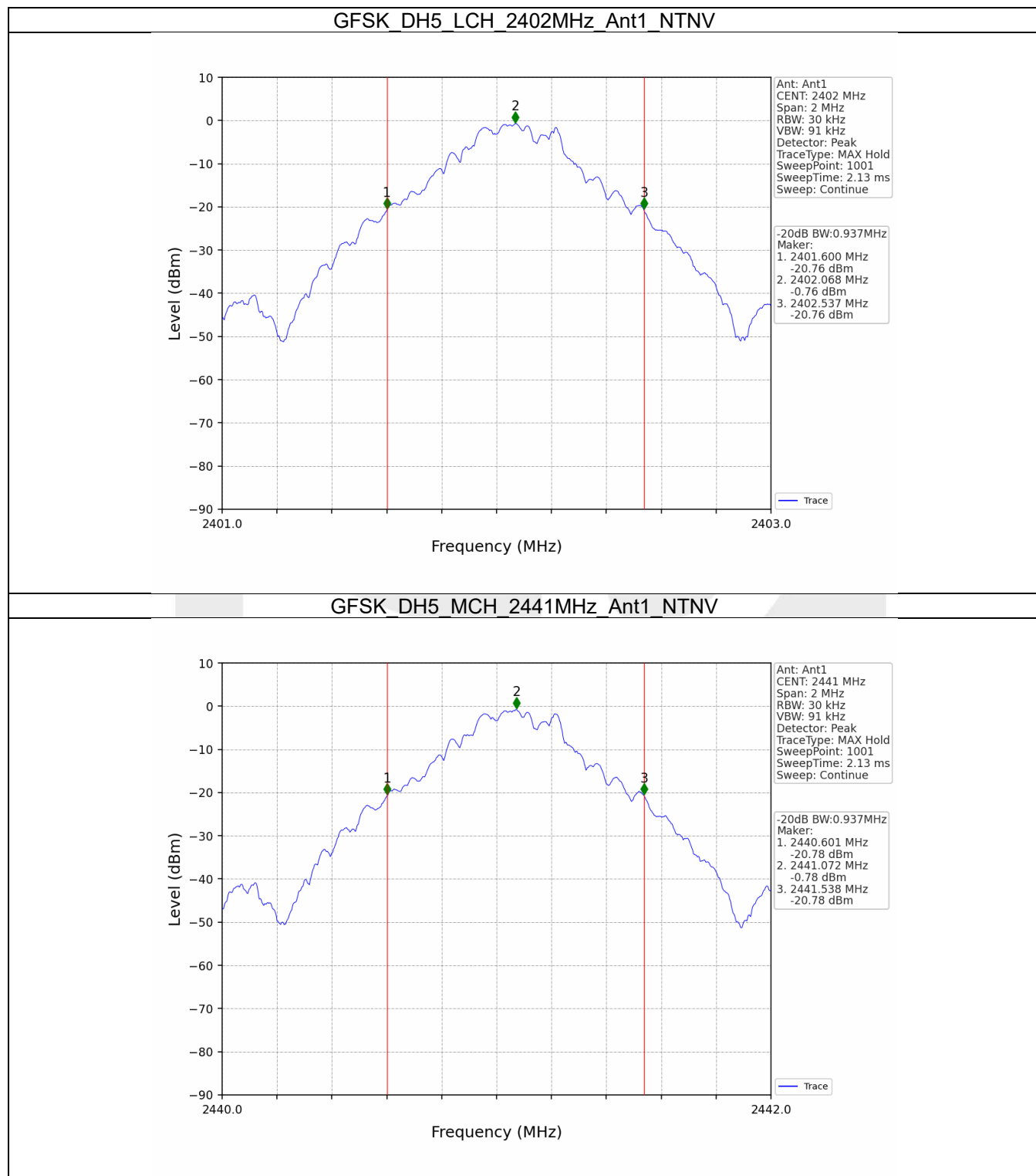


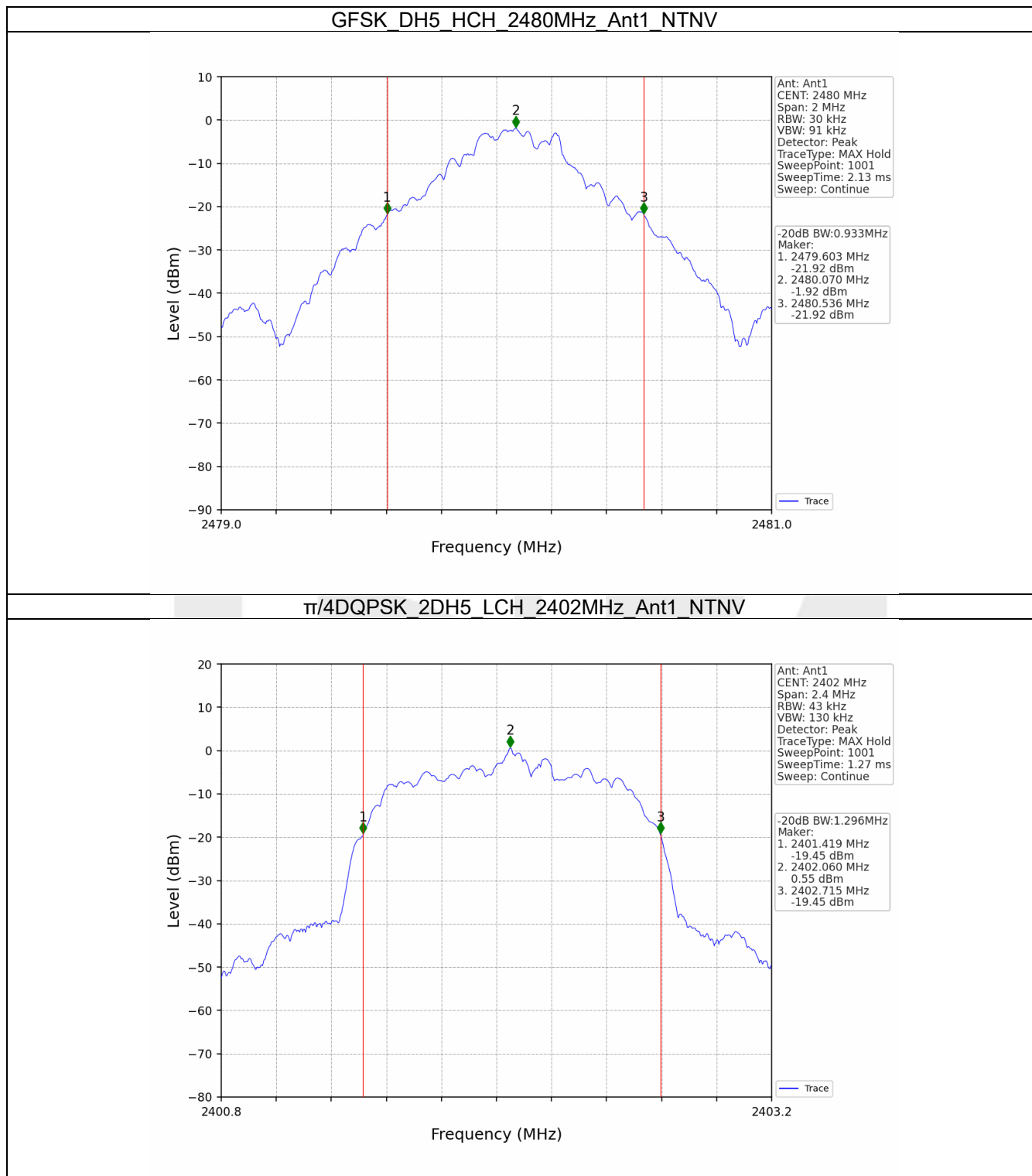
1.2 20dB BW

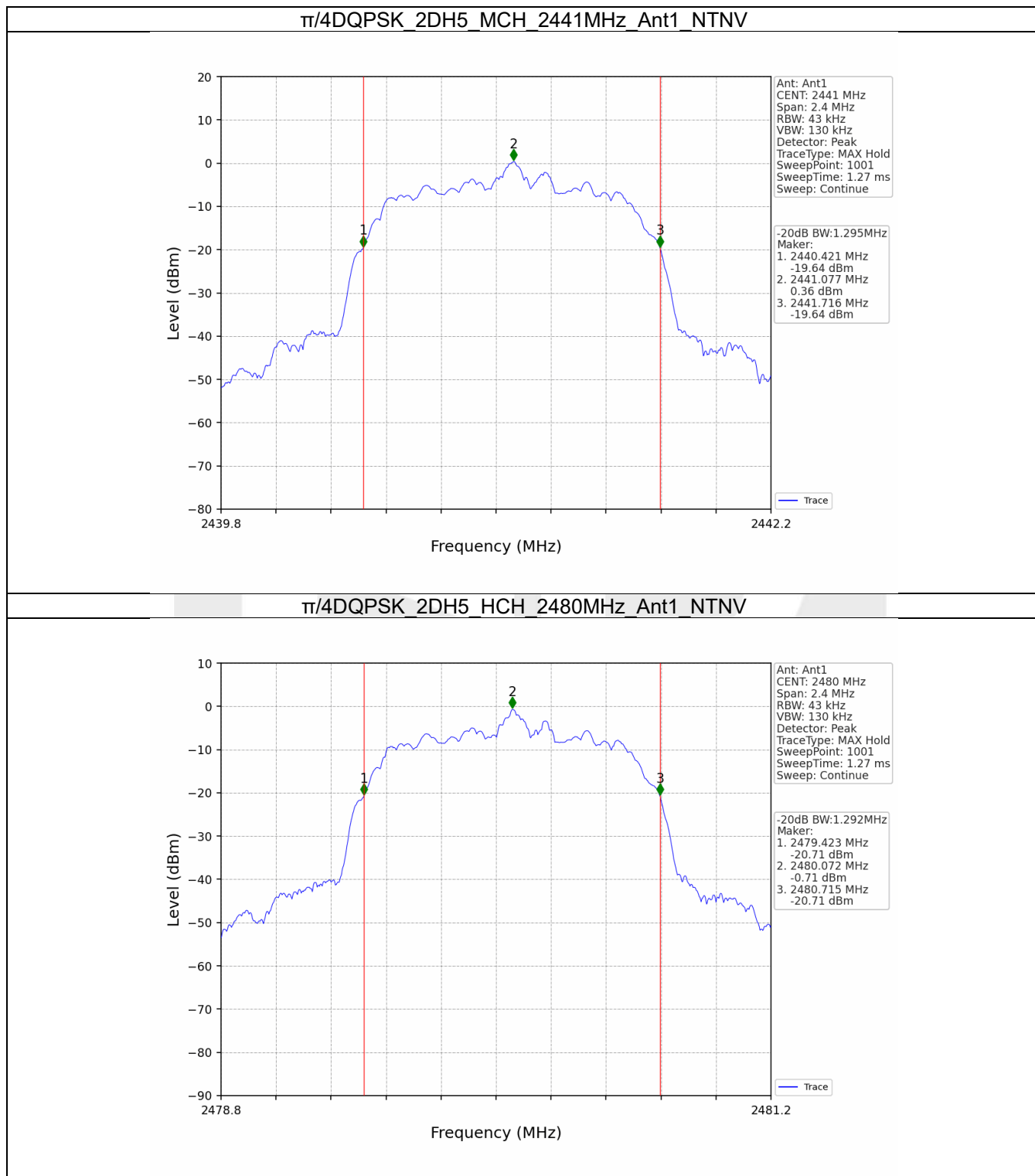
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.937	Pass
		2441	DH5	1	0.937	Pass
		2480	DH5	1	0.933	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.296	Pass
		2441	2DH5	1	1.295	Pass
		2480	2DH5	1	1.292	Pass

1.2.2 Test Graph







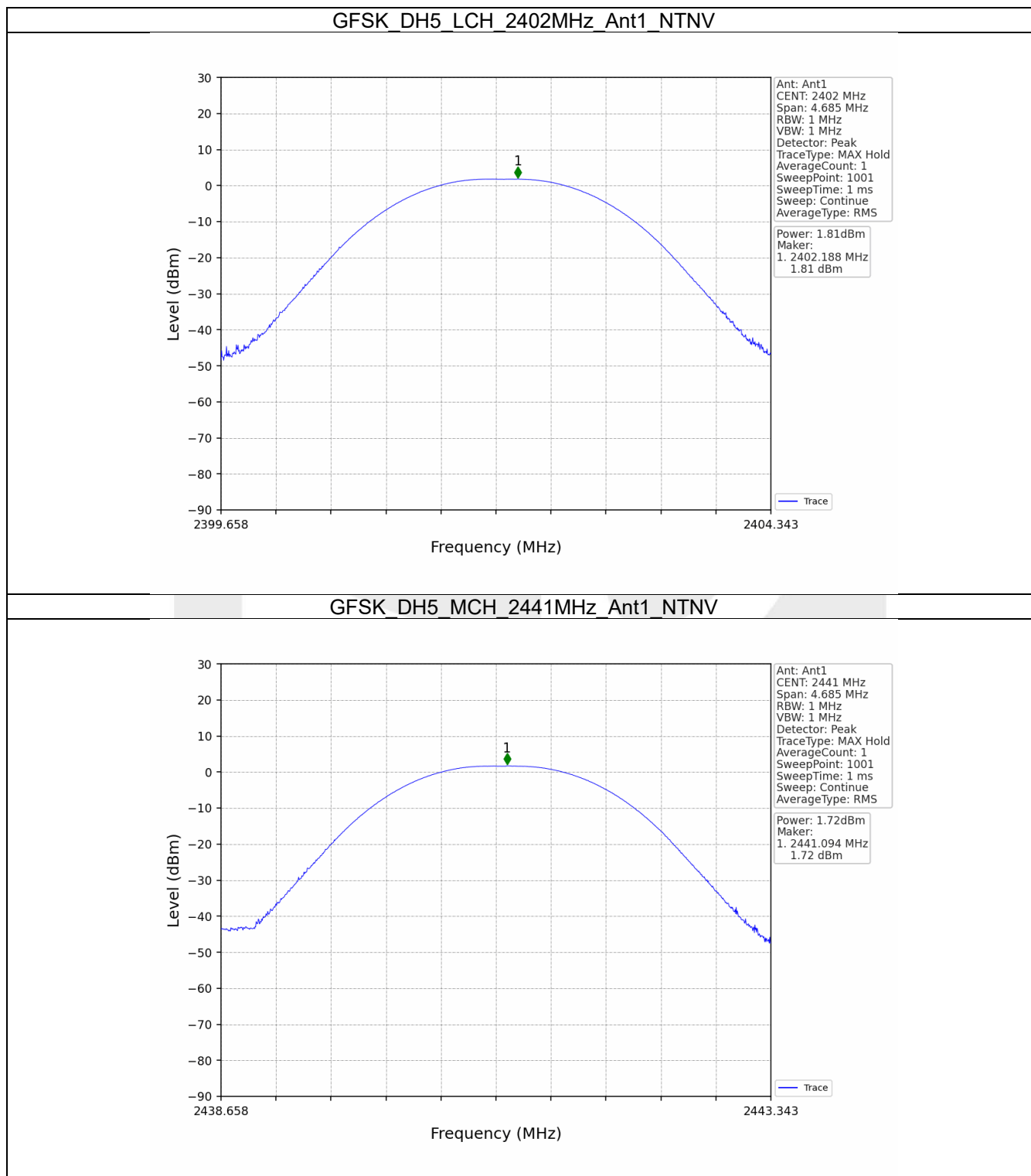
2. Maximum Conducted Output Power

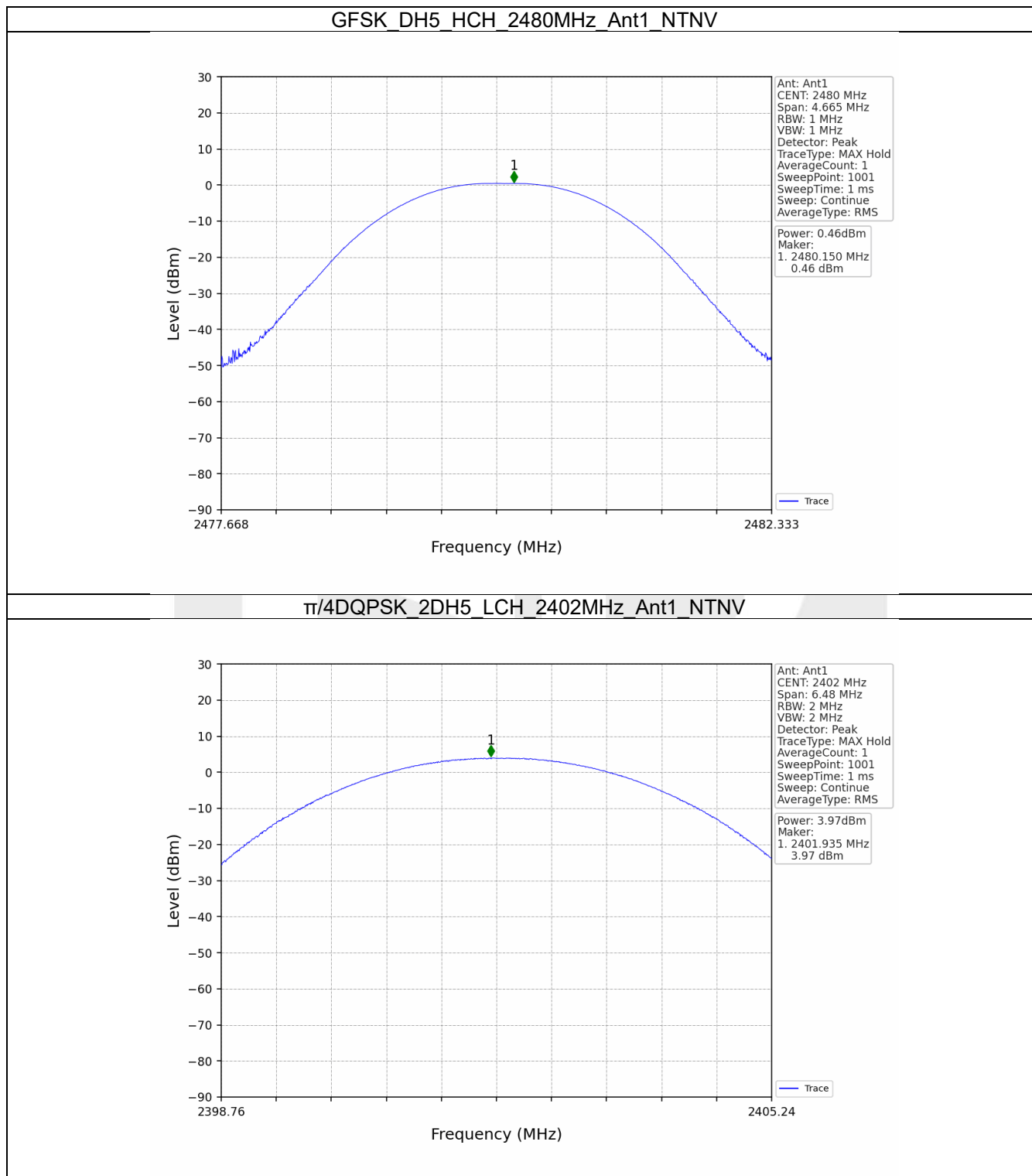
2.1 Power

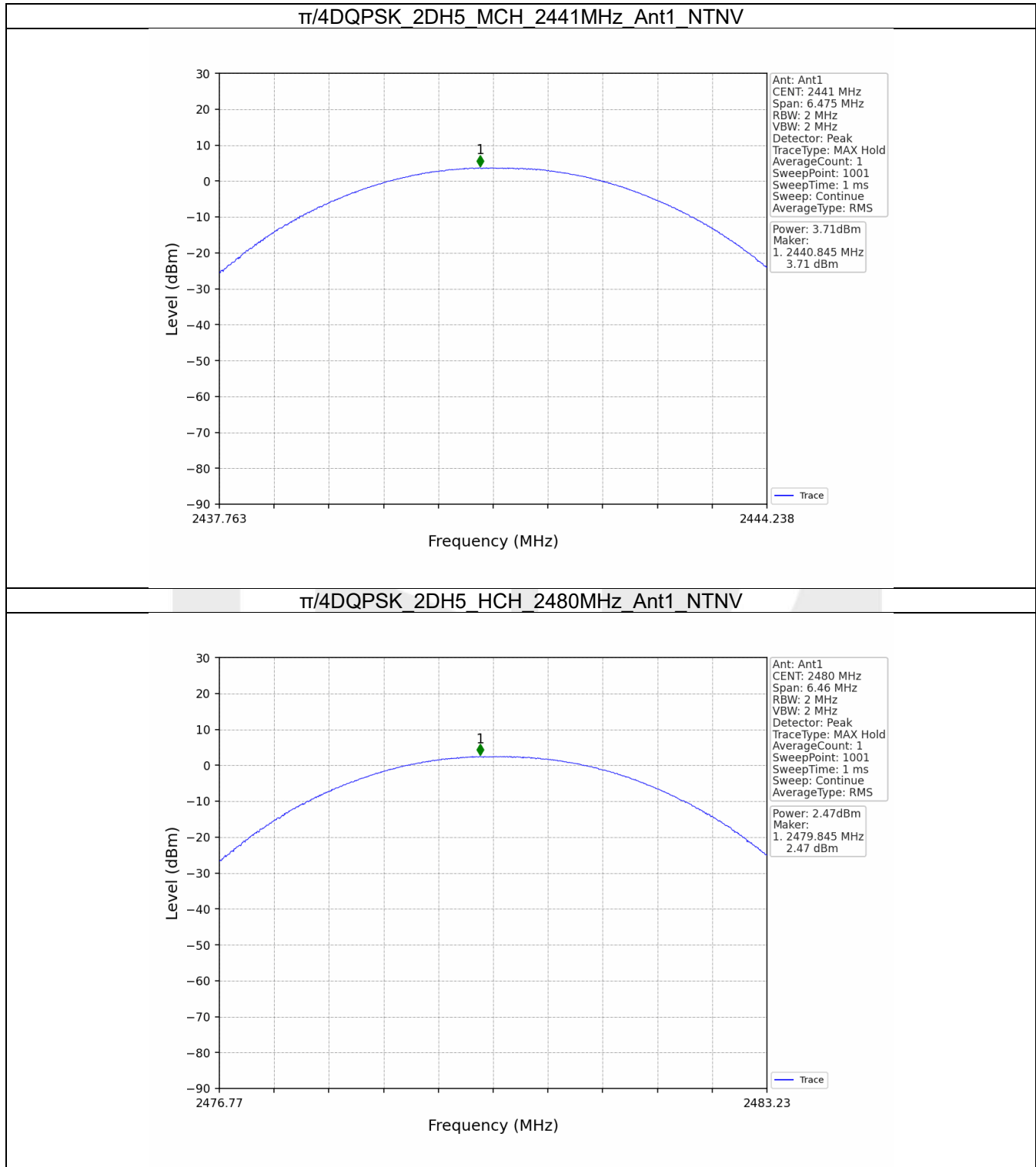
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.81	≤ 30	Pass
		2441	DH5	1.72	≤ 30	Pass
		2480	DH5	0.46	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	3.97	≤ 20.97	Pass
		2441	2DH5	3.71	≤ 20.97	Pass
		2480	2DH5	2.47	≤ 20.97	Pass

2.1.2 Test Graph







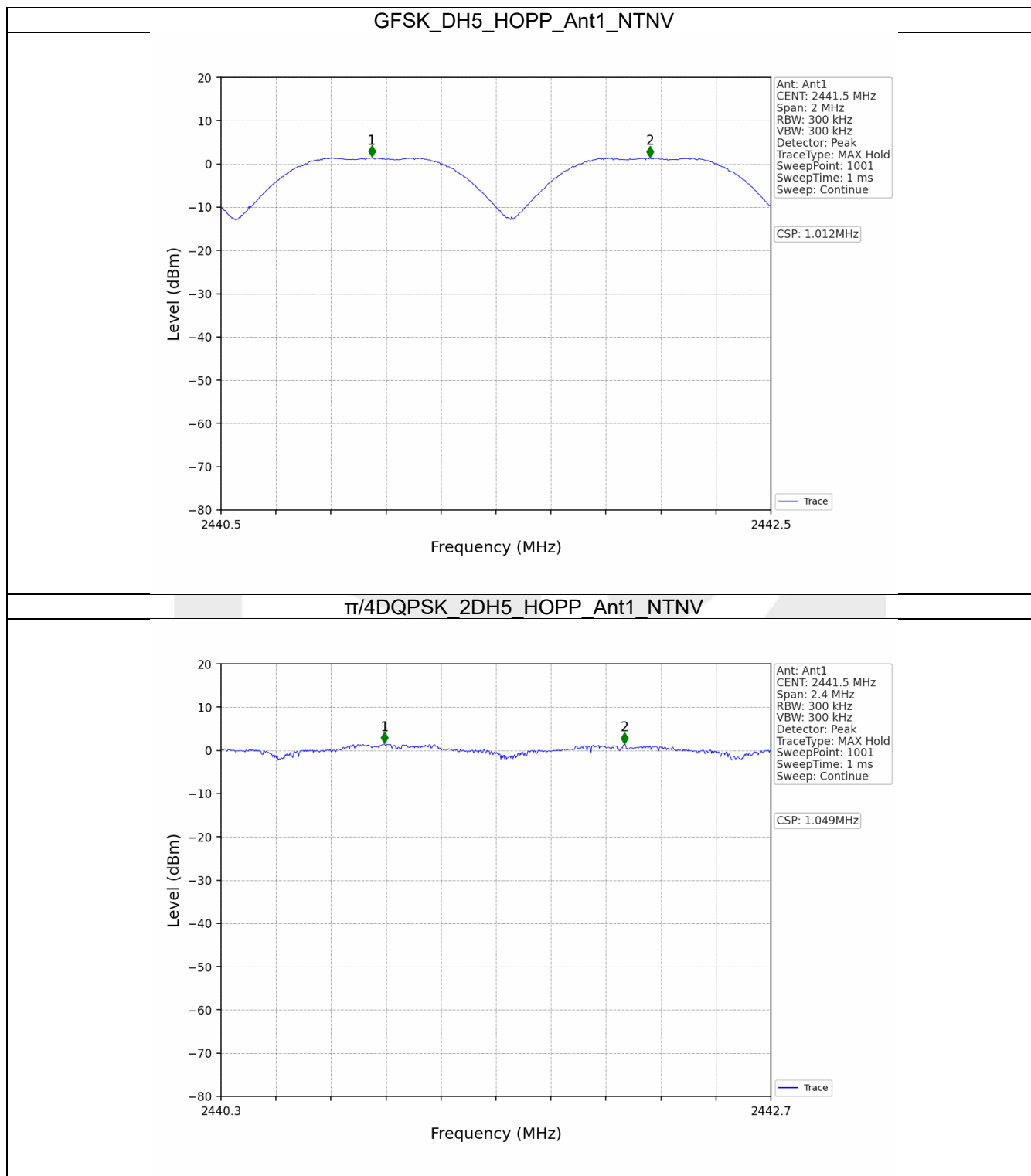
3. Carrier Frequency Separation

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	1.012	0.937	≥ 0.937	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.049	1.296	≥ 0.864	Pass

3.1.2 Test Graph



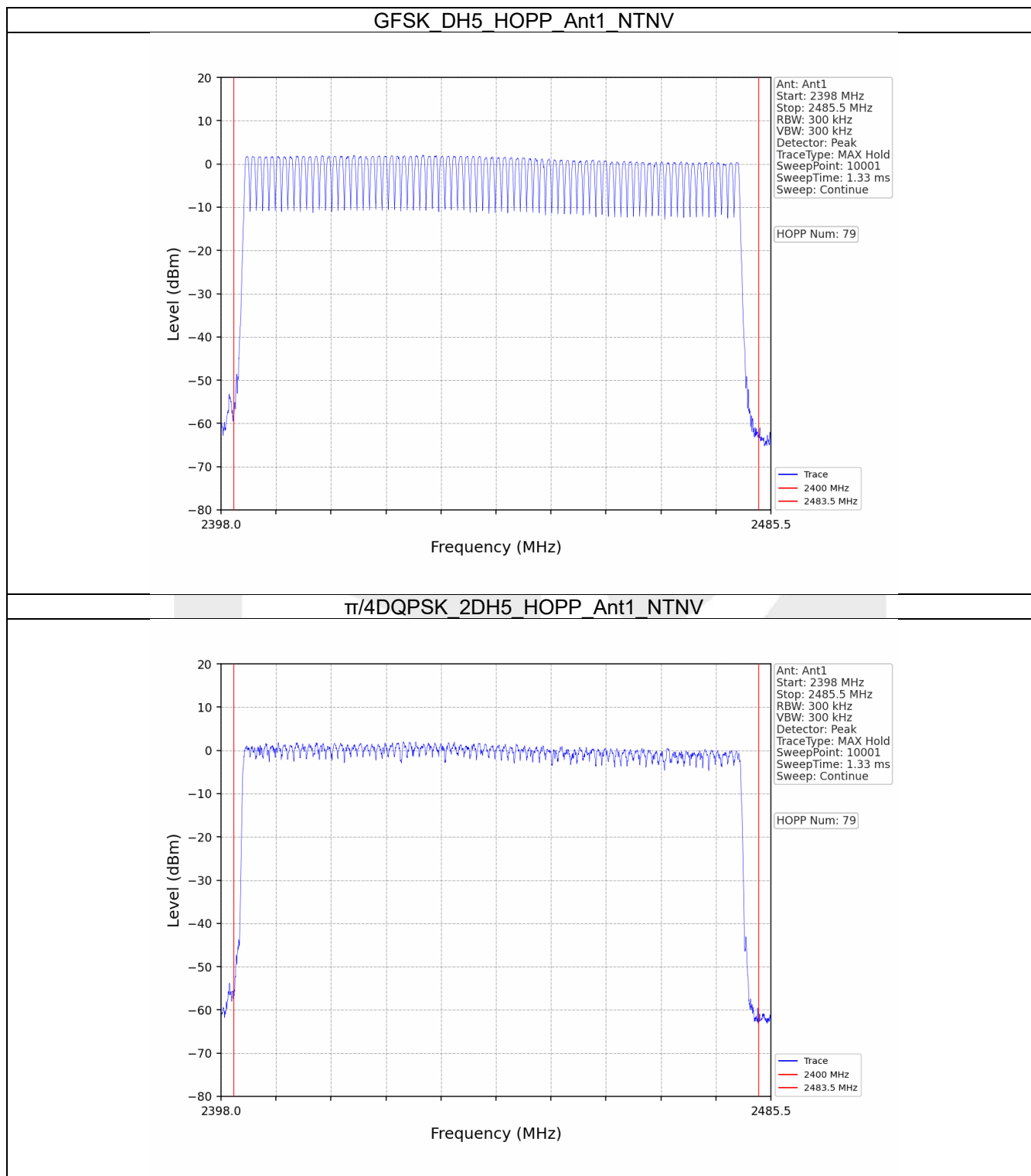
4. Number of Hopping Frequencies

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
$\pi/4$ DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass

4.1.2 Test Graph



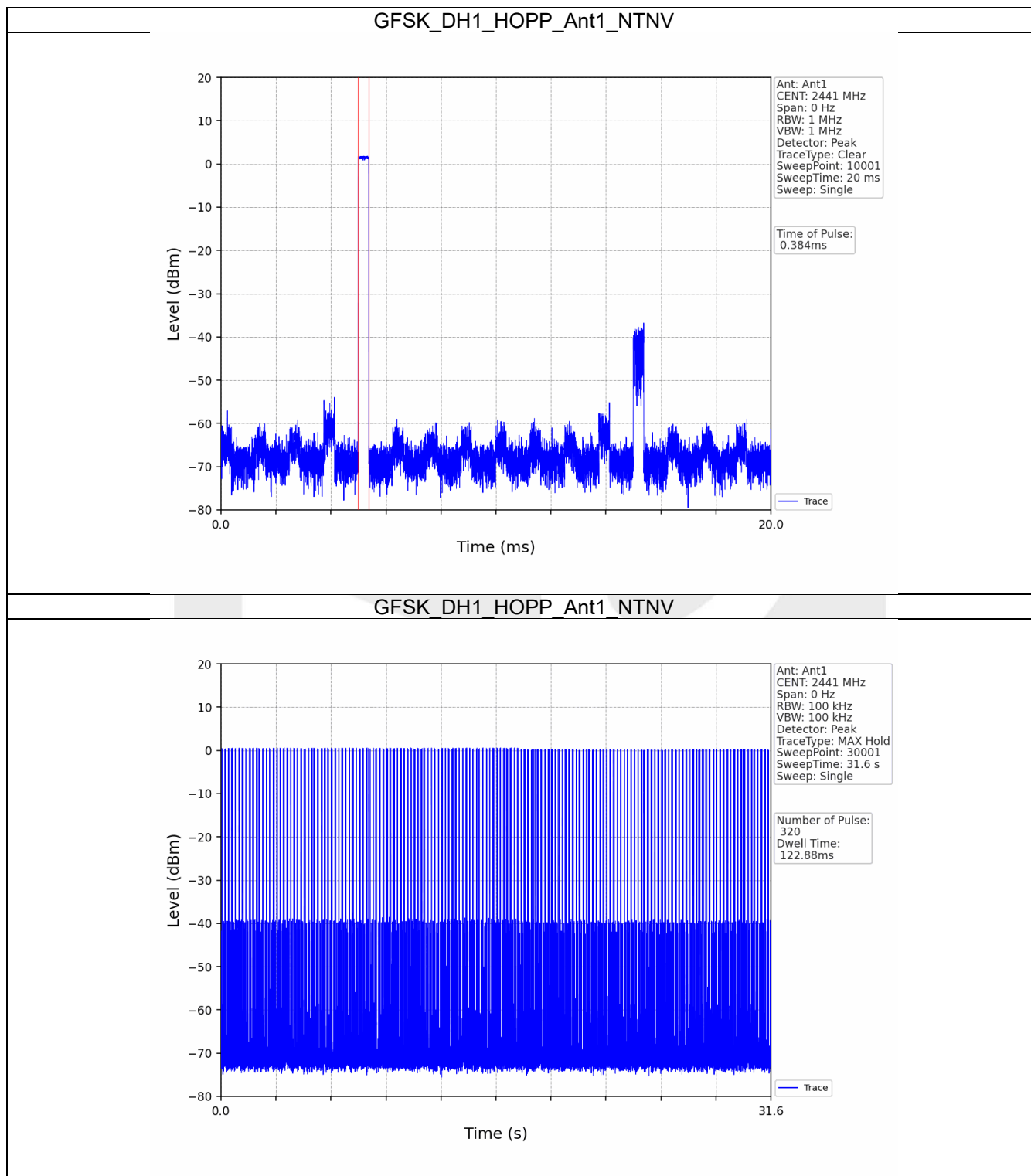
5. Time of Occupancy (Dwell Time)

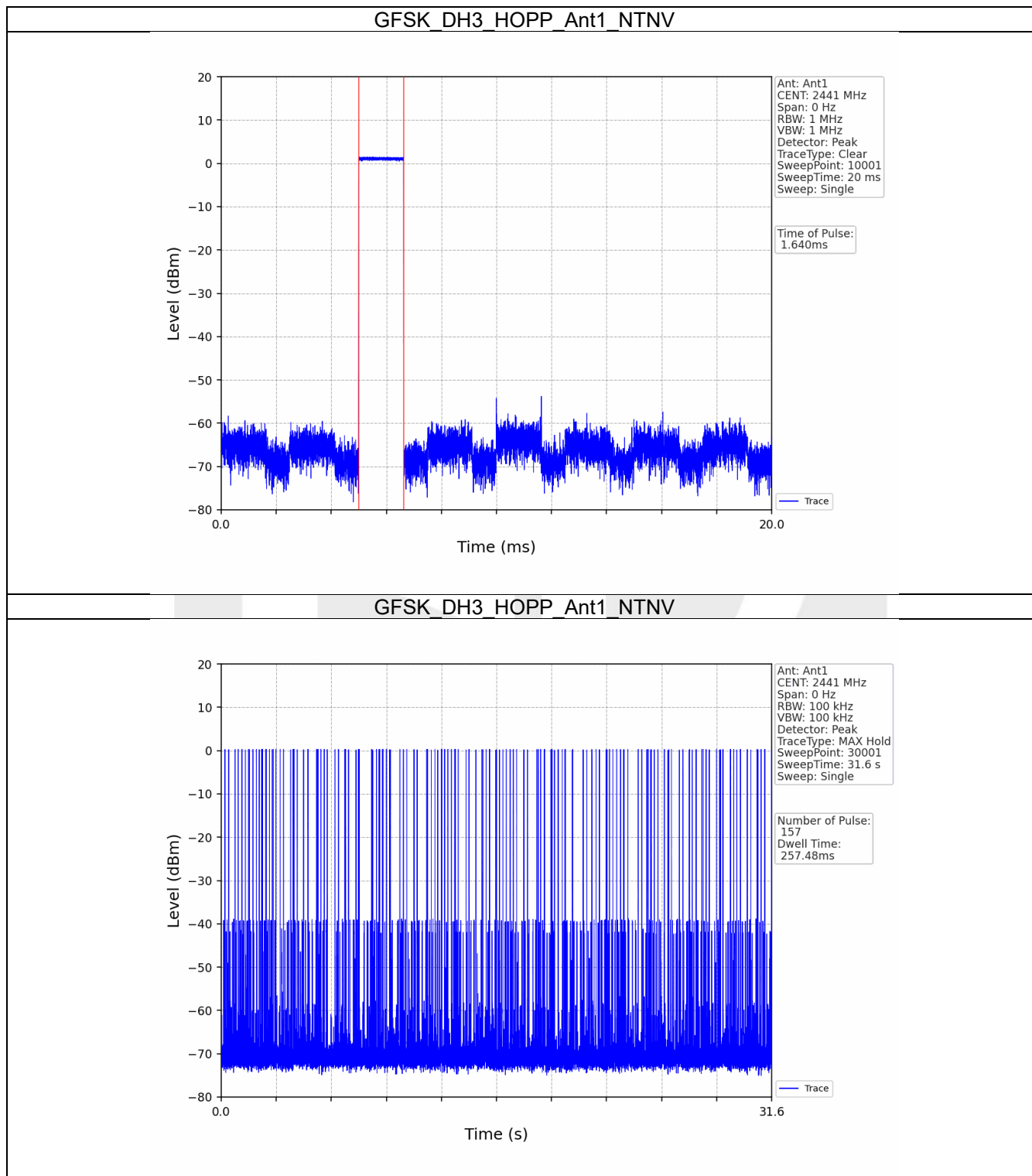
5.1 Ant1

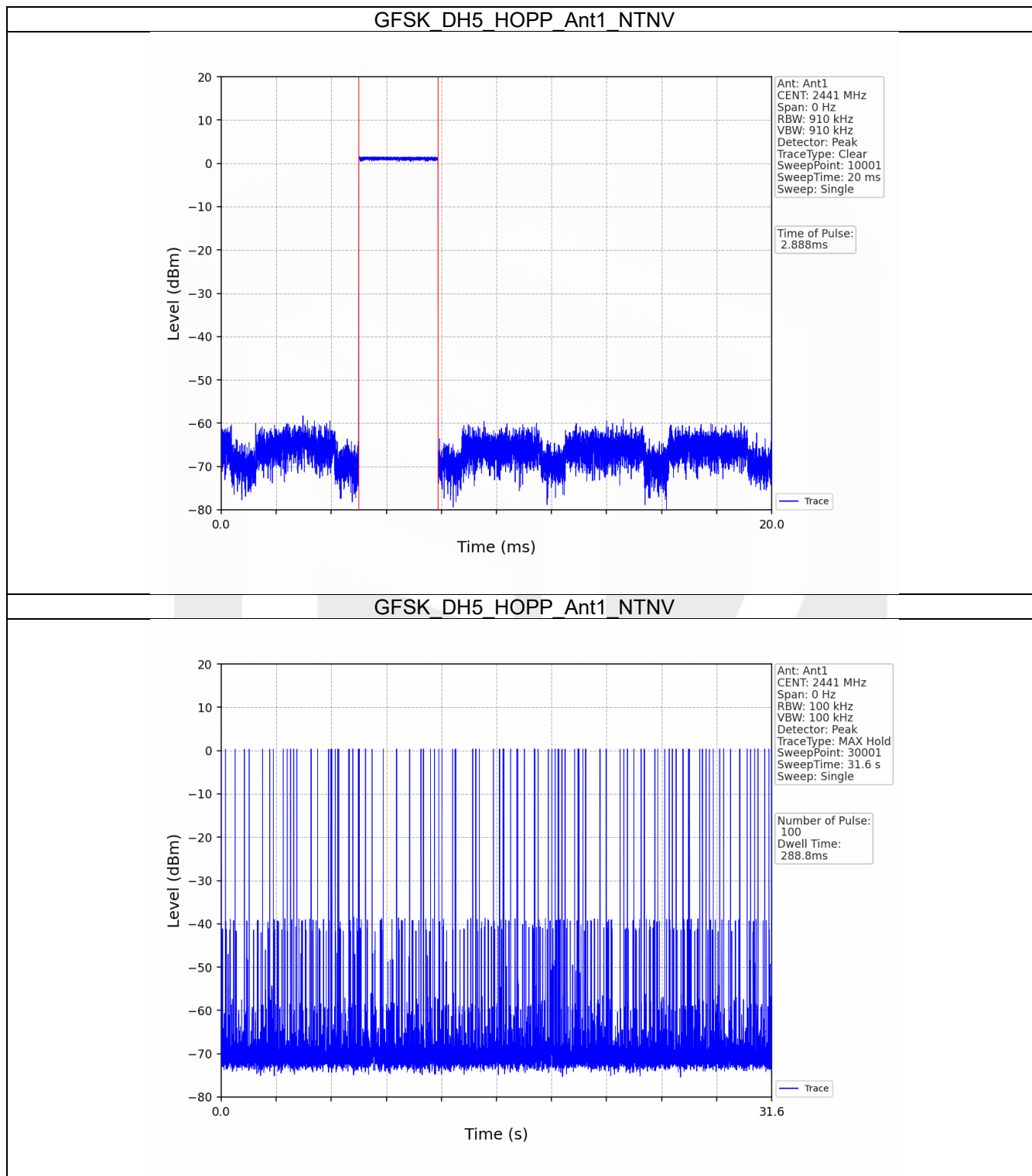
5.1.1 Test Result

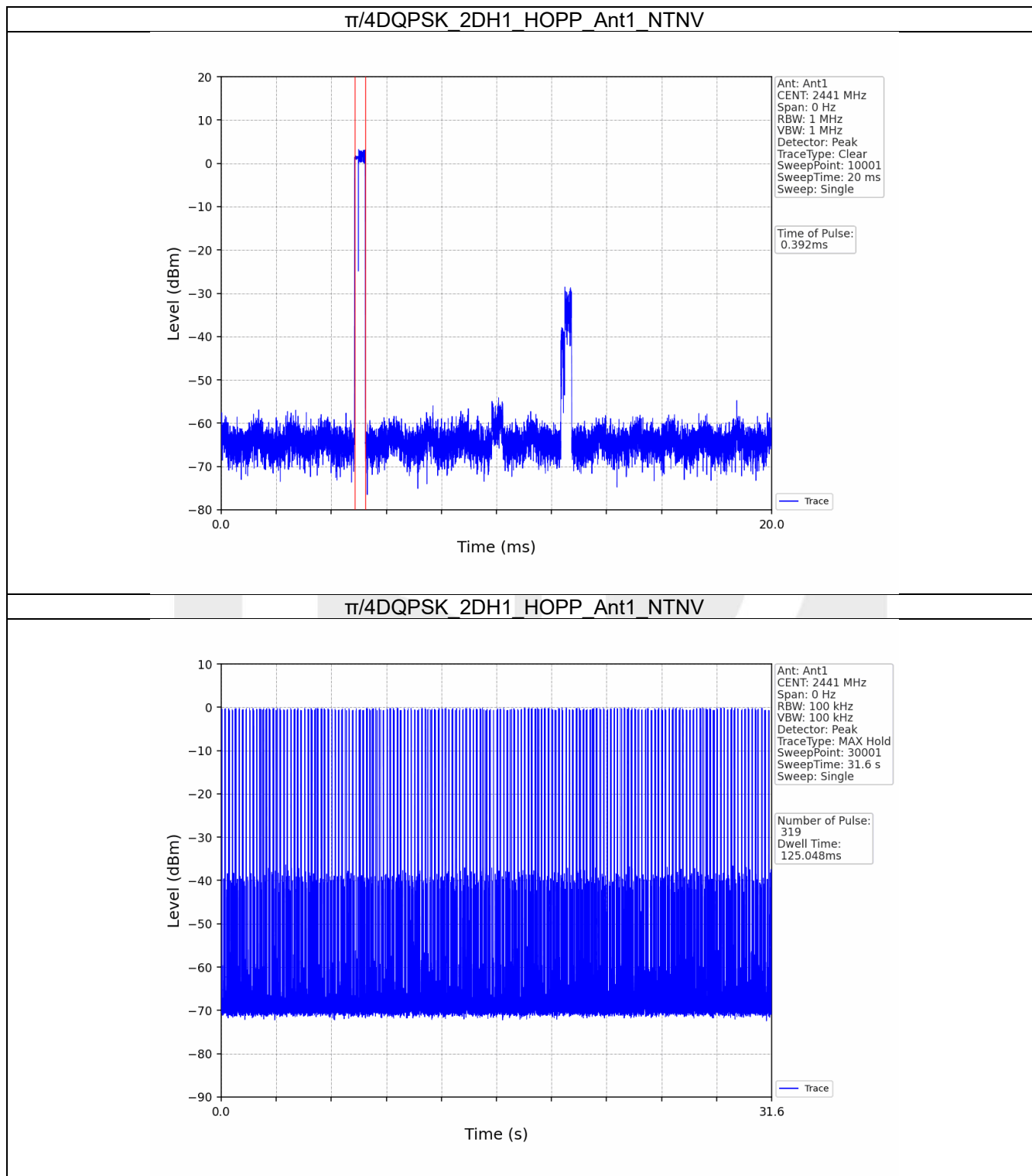
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	157	257.480	<=400	Pass
			DH5	2.888	31.600	100	288.800	<=400	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH1	0.392	31.600	319	125.048	<=400	Pass
			2DH3	1.646	31.600	152	250.192	<=400	Pass
			2DH5	2.898	31.600	118	341.964	<=400	Pass

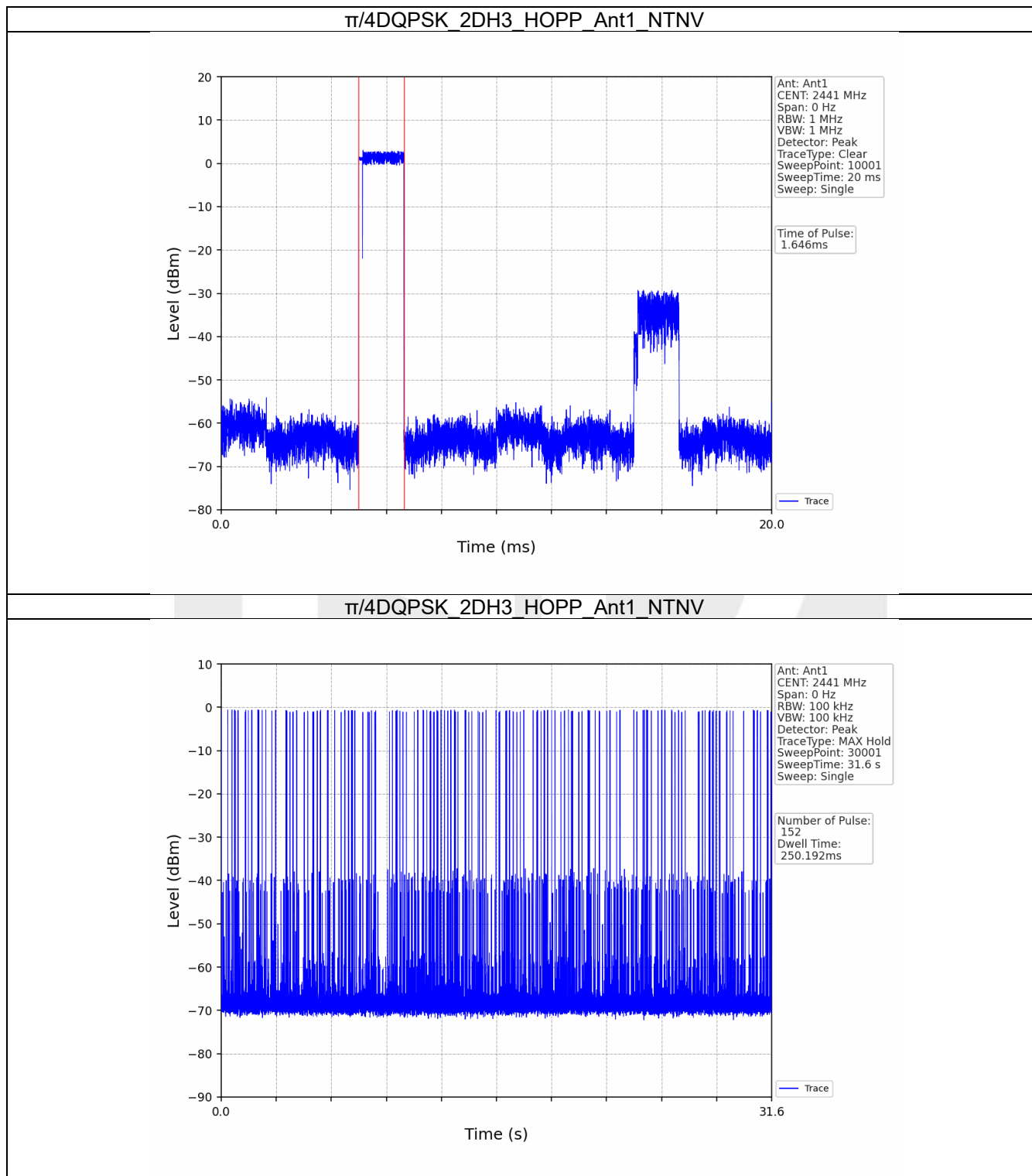
5.1.2 Test Graph

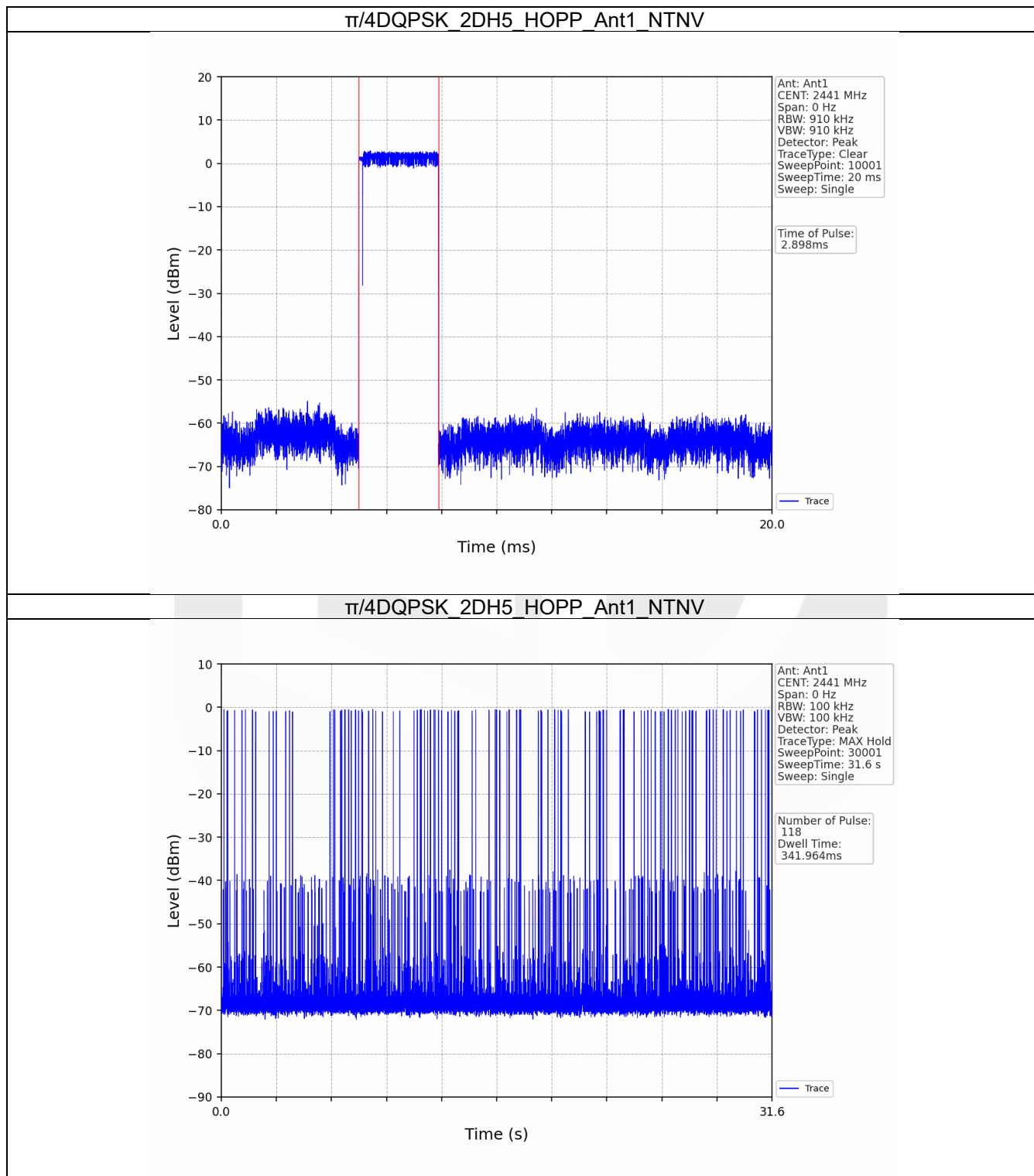












6. Unwanted Emissions In Non-restricted Frequency Bands

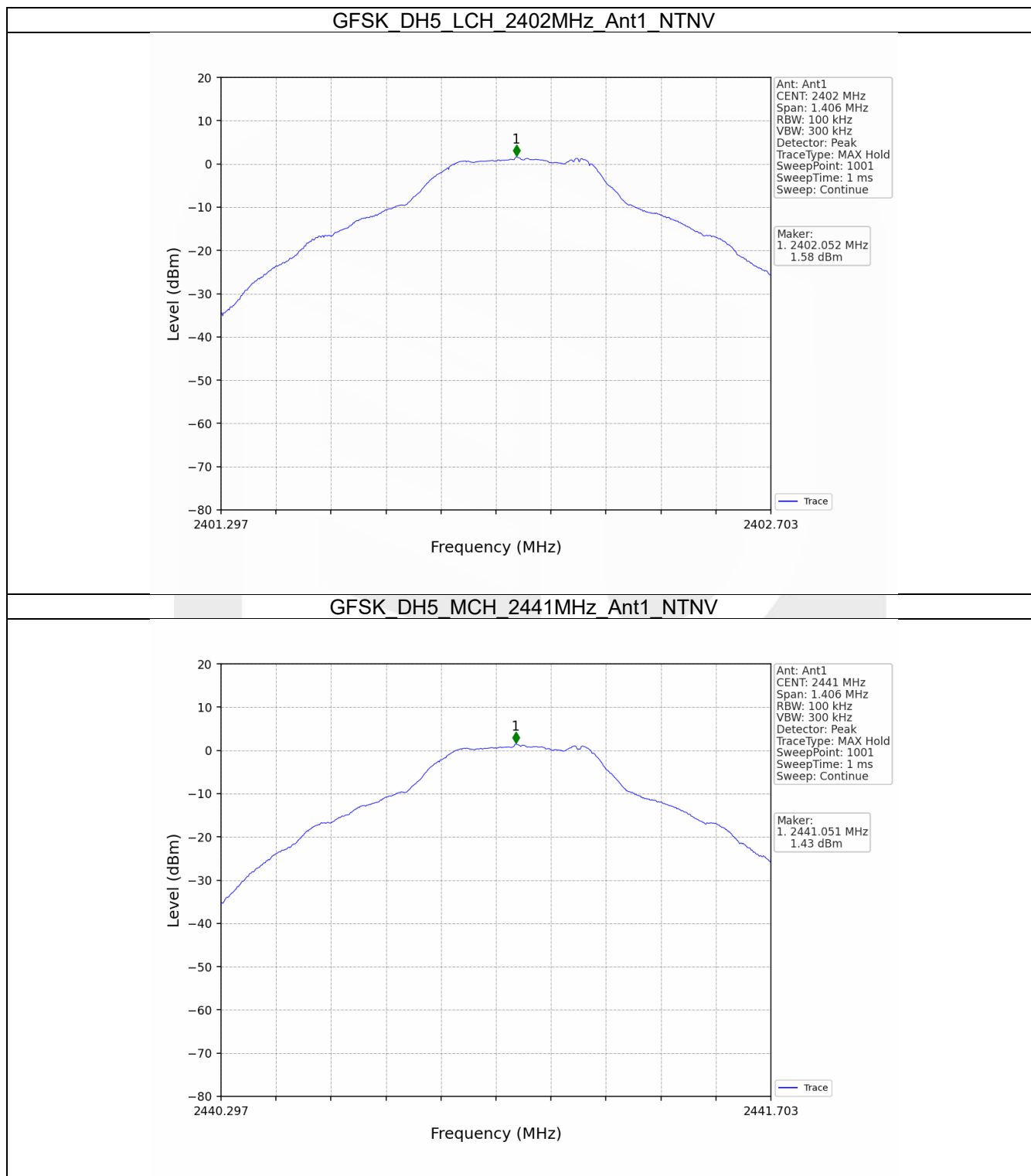
6.1 Ref

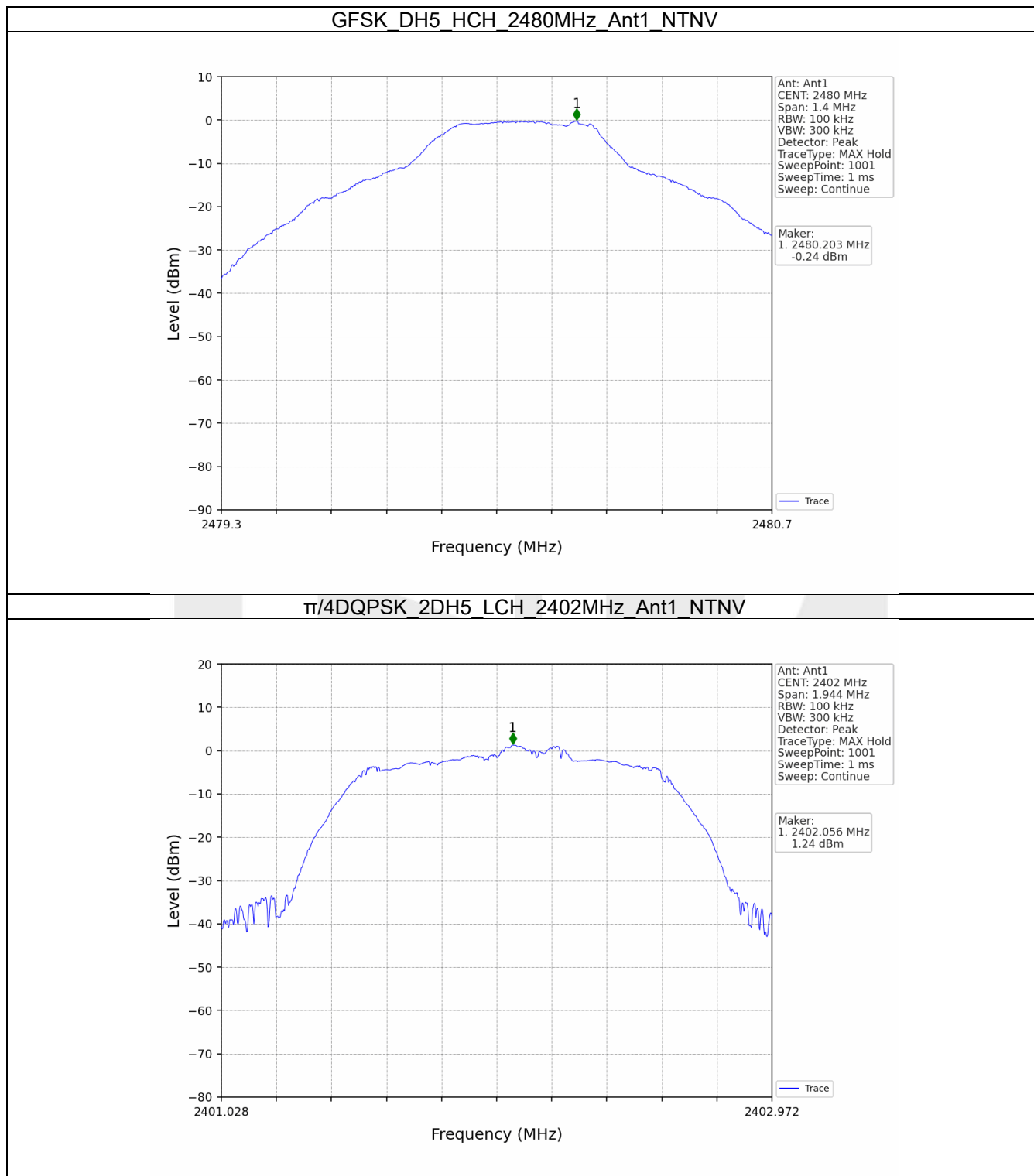
6.1.1 Test Result

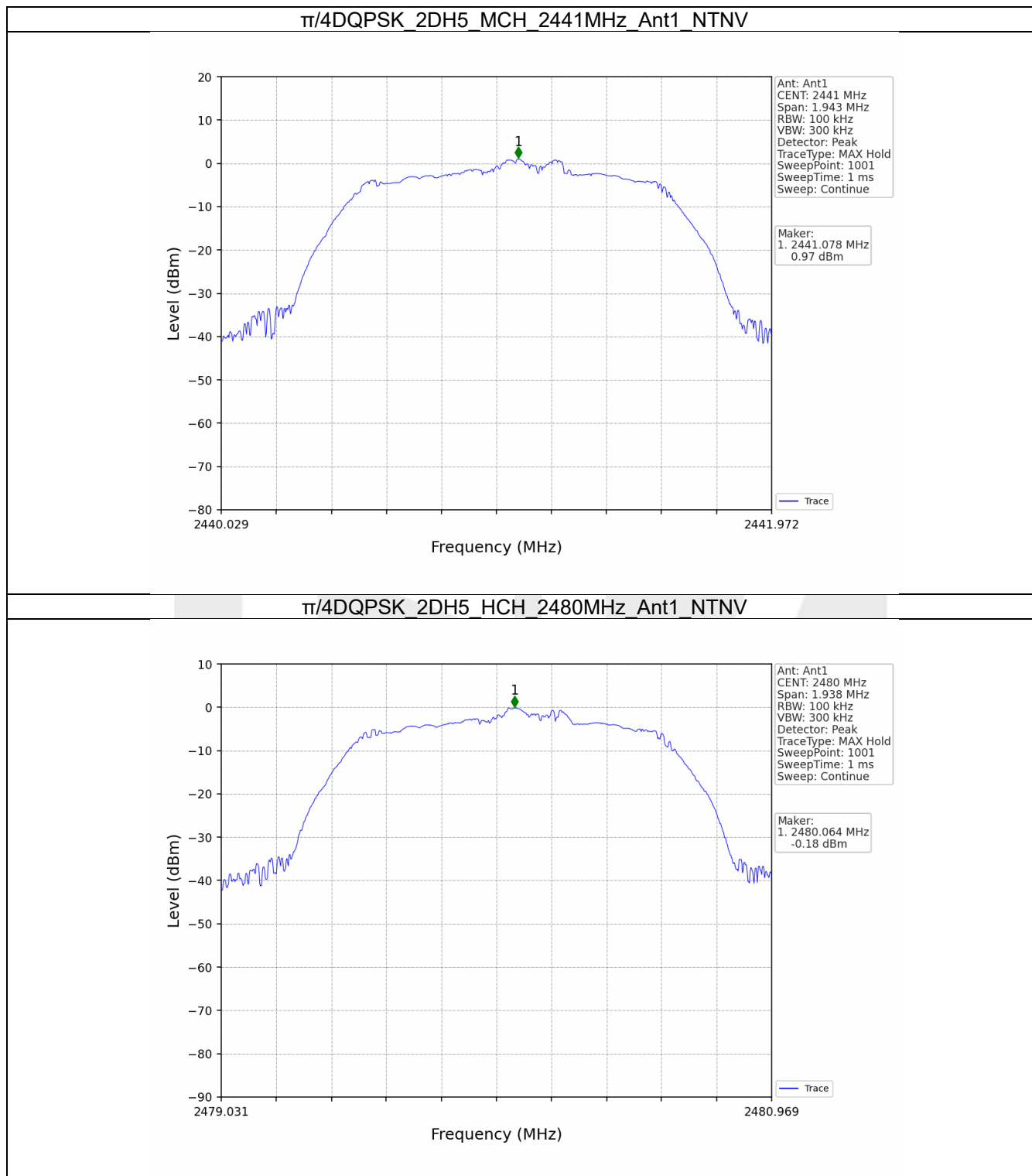
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.58
		2441	DH5	1	1.43
		2480	DH5	1	-0.24
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.24
		2441	2DH5	1	0.97
		2480	2DH5	1	-0.18

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.

6.1.2 Test Graph





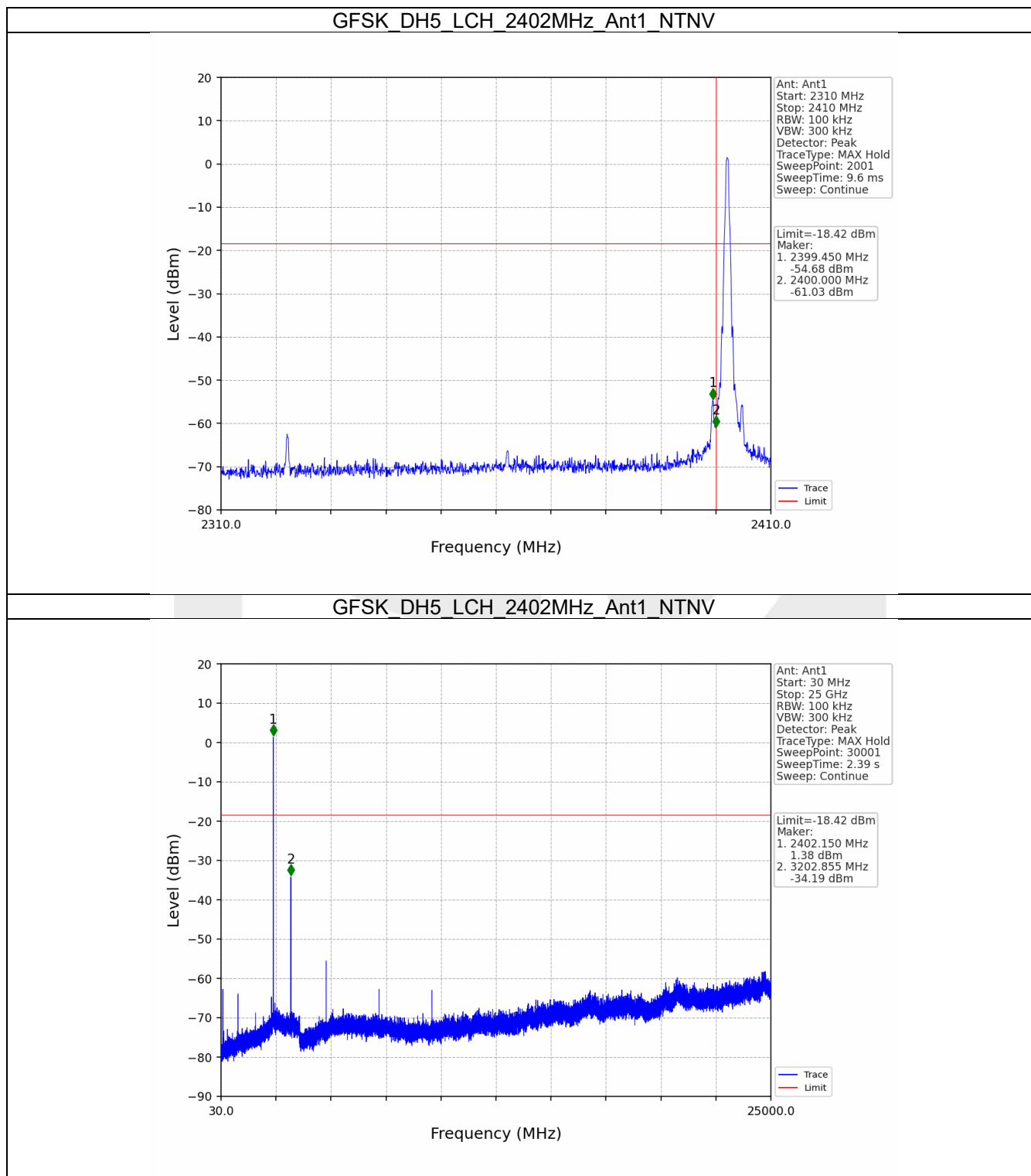


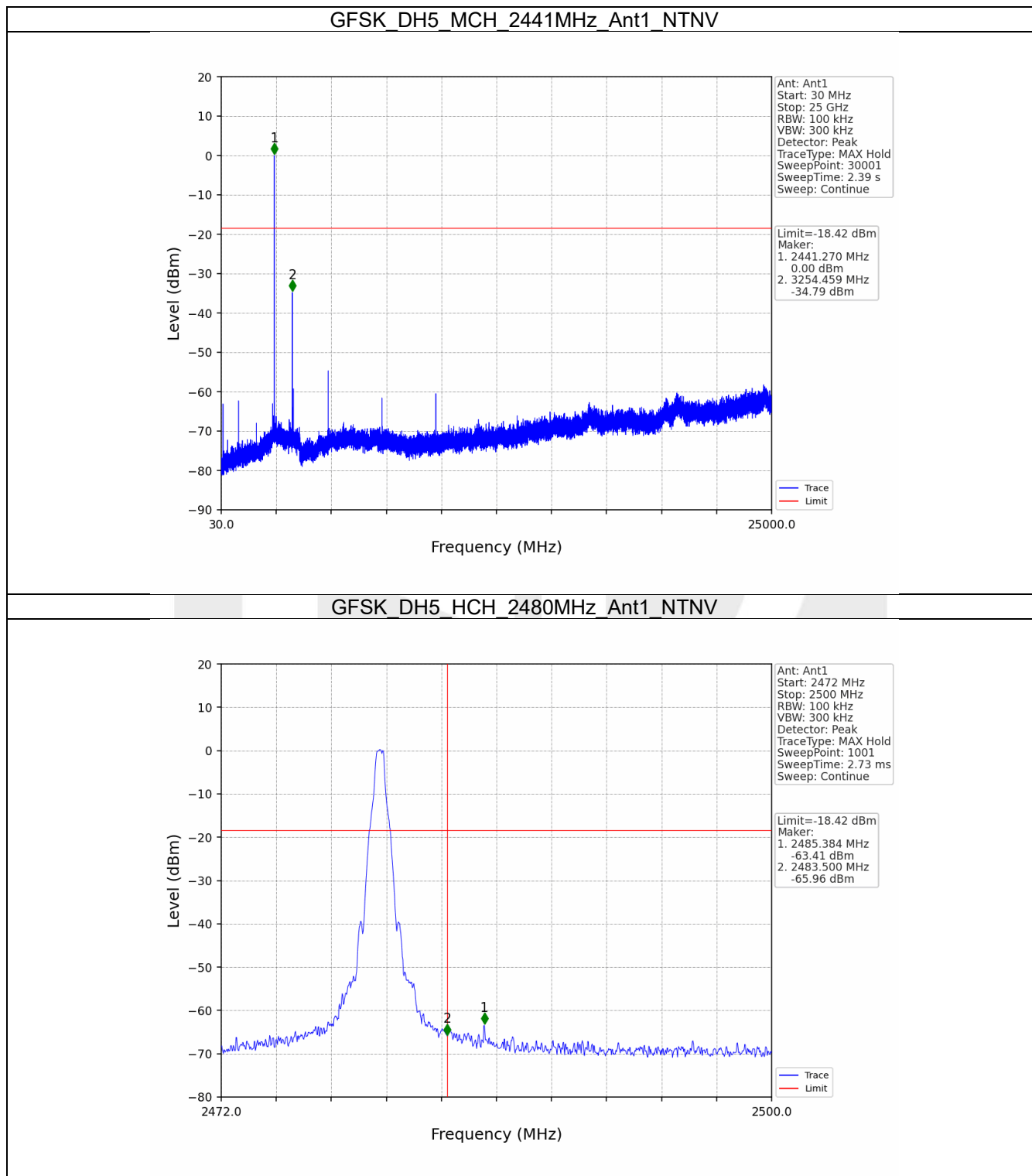
6.2 CSE

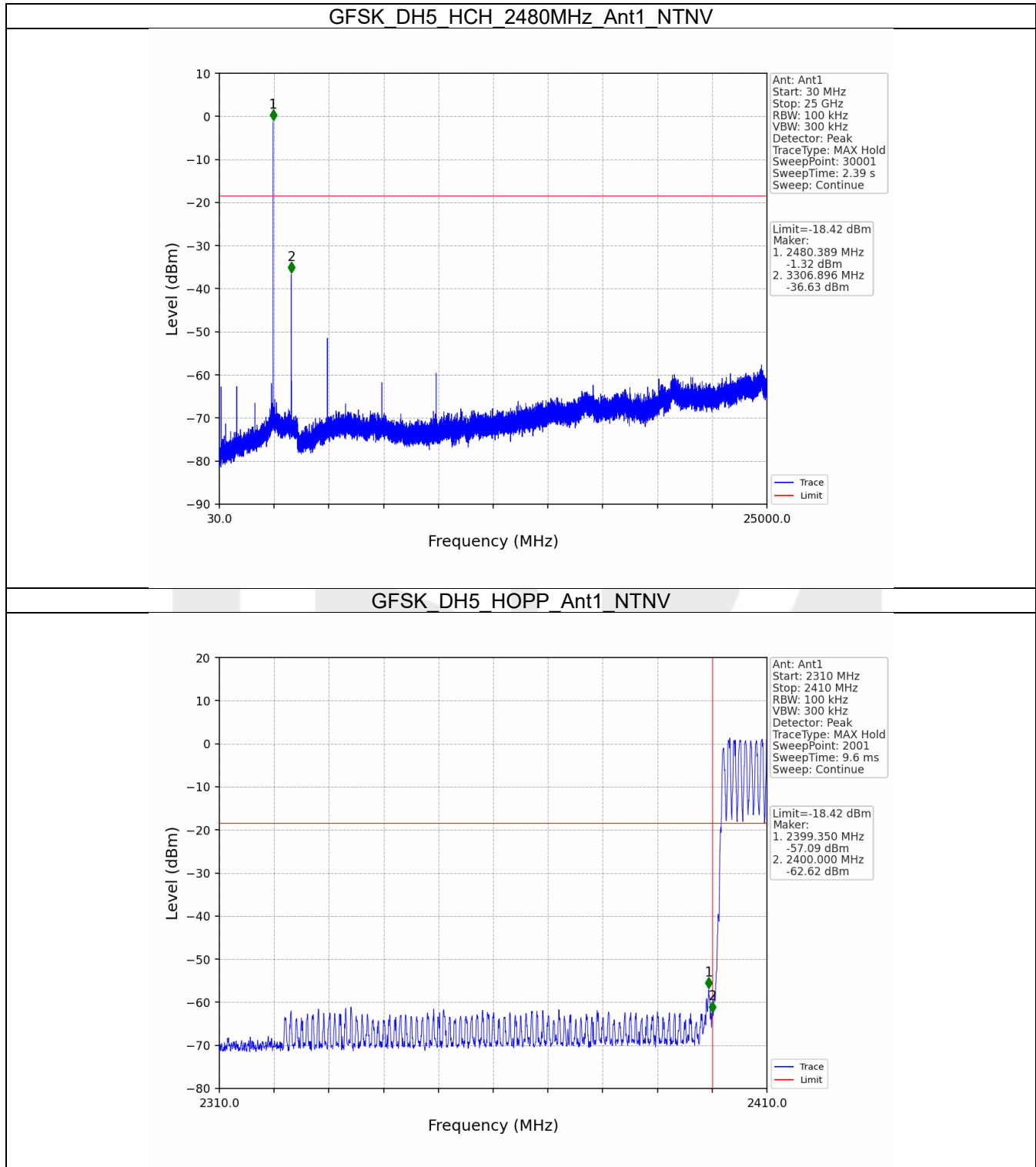
6.2.1 Test Result

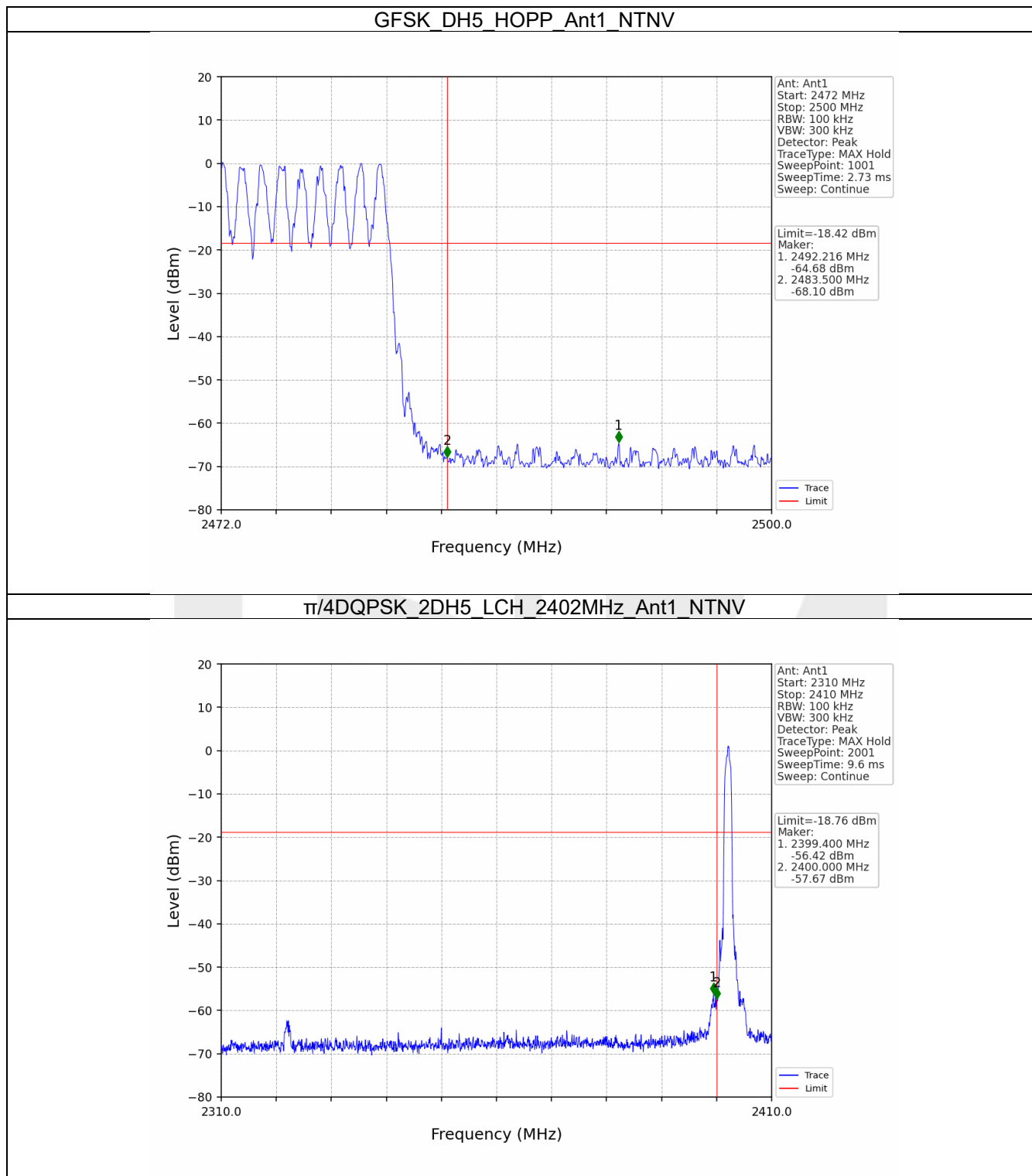
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.58	-18.42	Pass
		2441	DH5	1	1.58	-18.42	Pass
		2480	DH5	1	1.58	-18.42	Pass
		HOPP	DH5	1	1.58	-18.42	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.24	-18.76	Pass
		2441	2DH5	1	1.24	-18.76	Pass
		2480	2DH5	1	1.24	-18.76	Pass
		HOPP	2DH5	1	1.24	-18.76	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.							

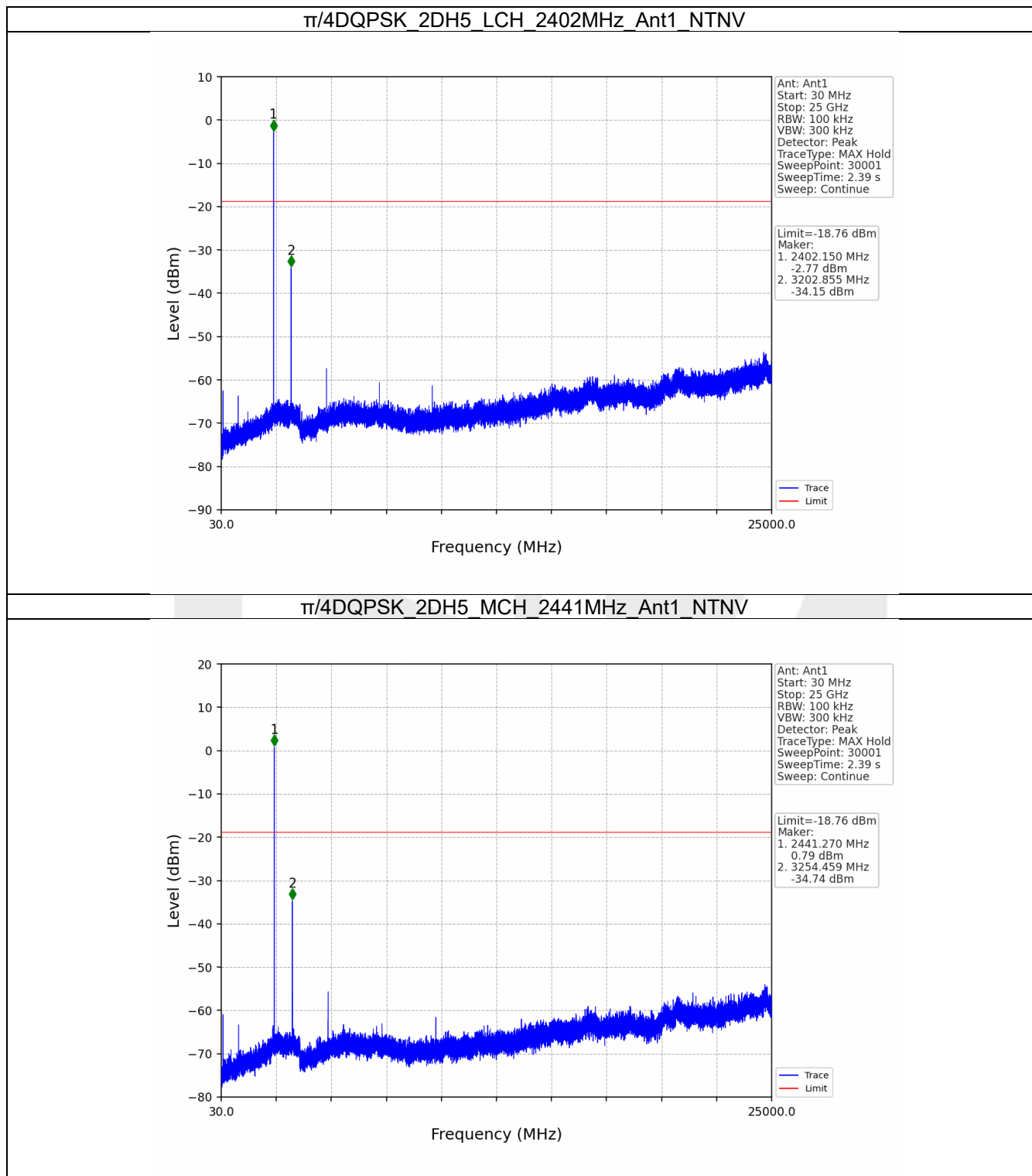
6.2.2 Test Graph

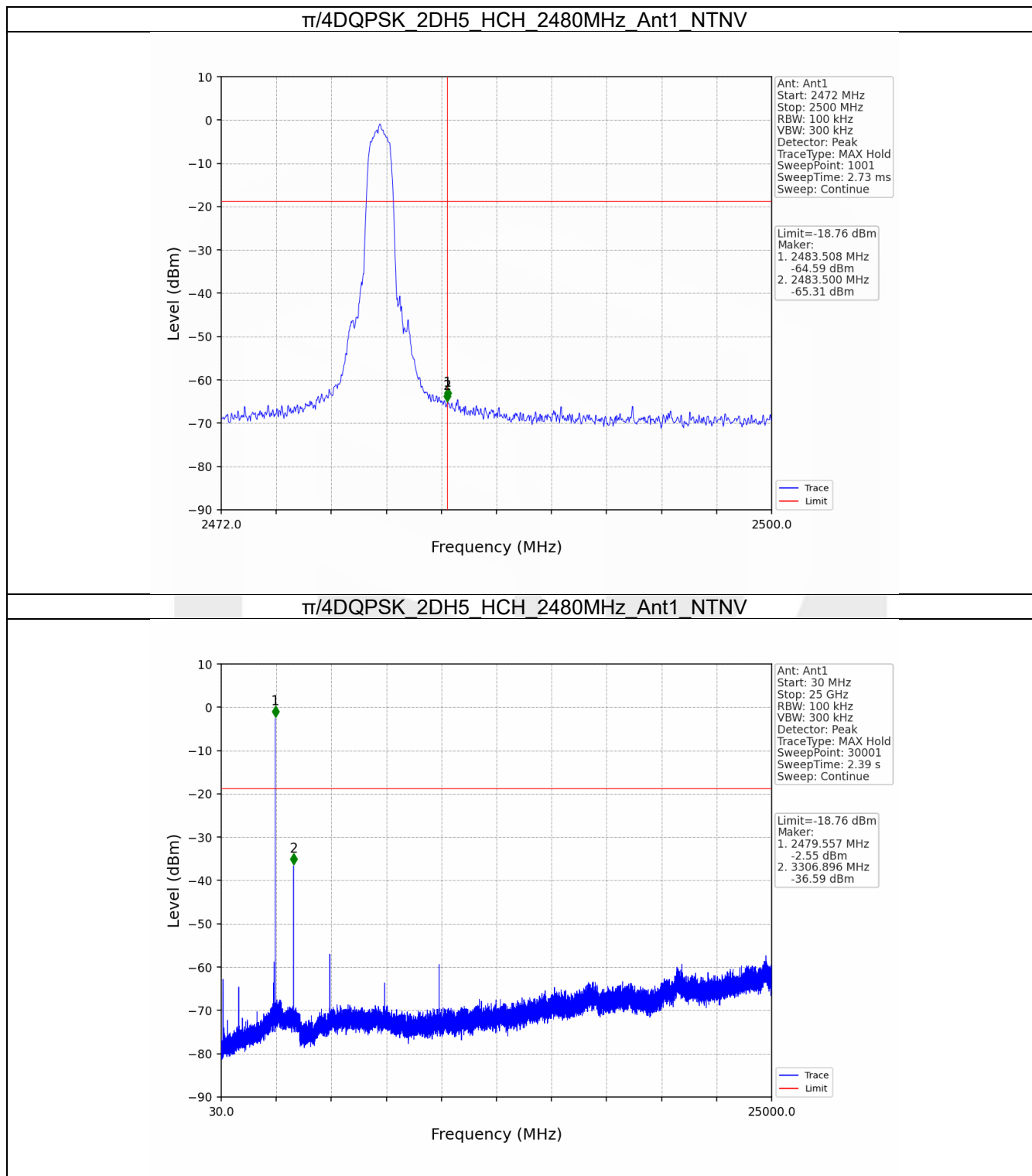


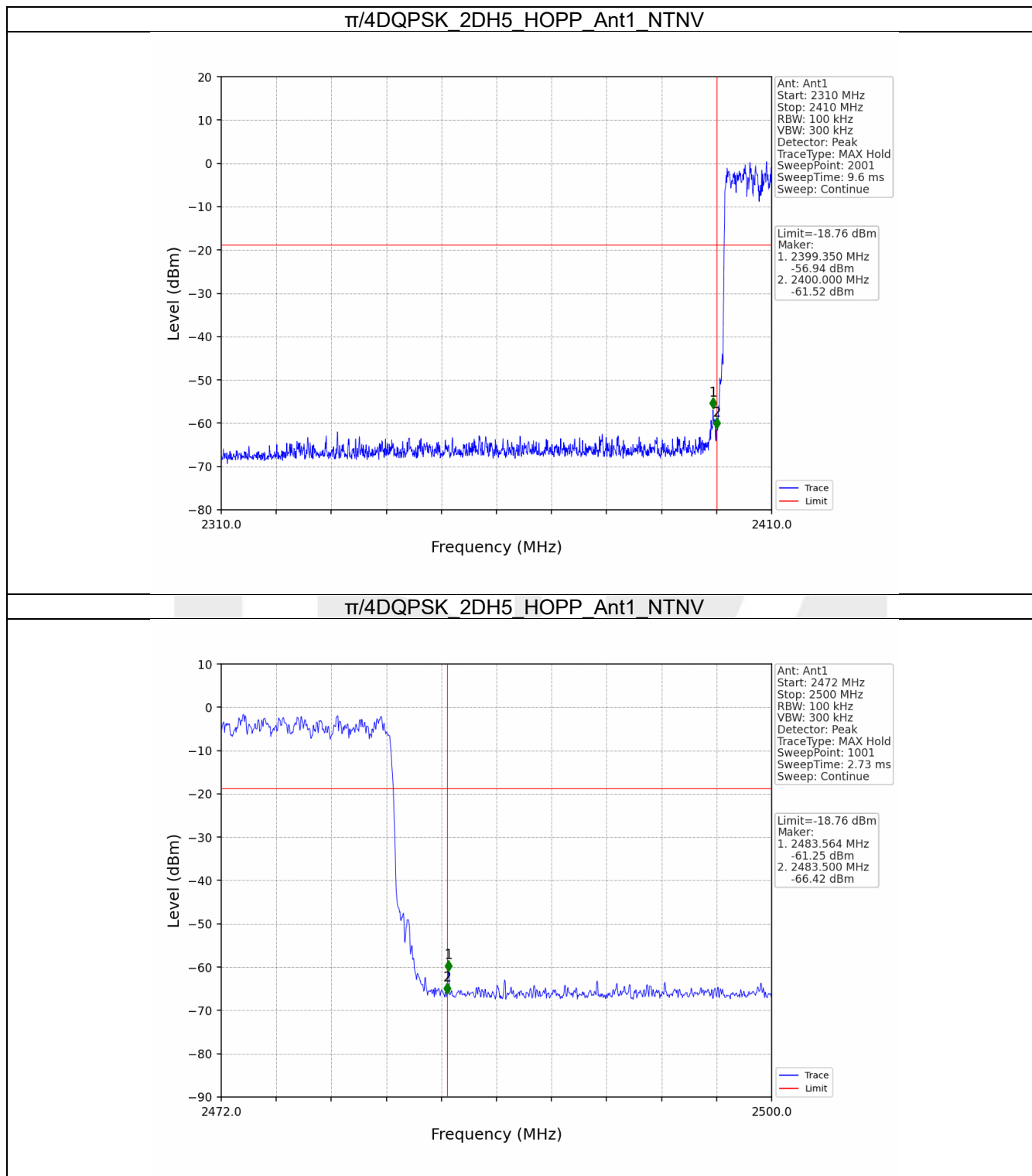












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