

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: SPEAKER BOX

Trade Mark: **IQ**sound®

Test Model: IQ-4715DJBT

FCC ID: 2AC5RIQ-4715DJBT

Environmental Conditions

Temperature:	24.6℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Tony luo
Supervised by:	Max zhang
NOTE	N/A

1. Bandwidth

1.1 Test Result

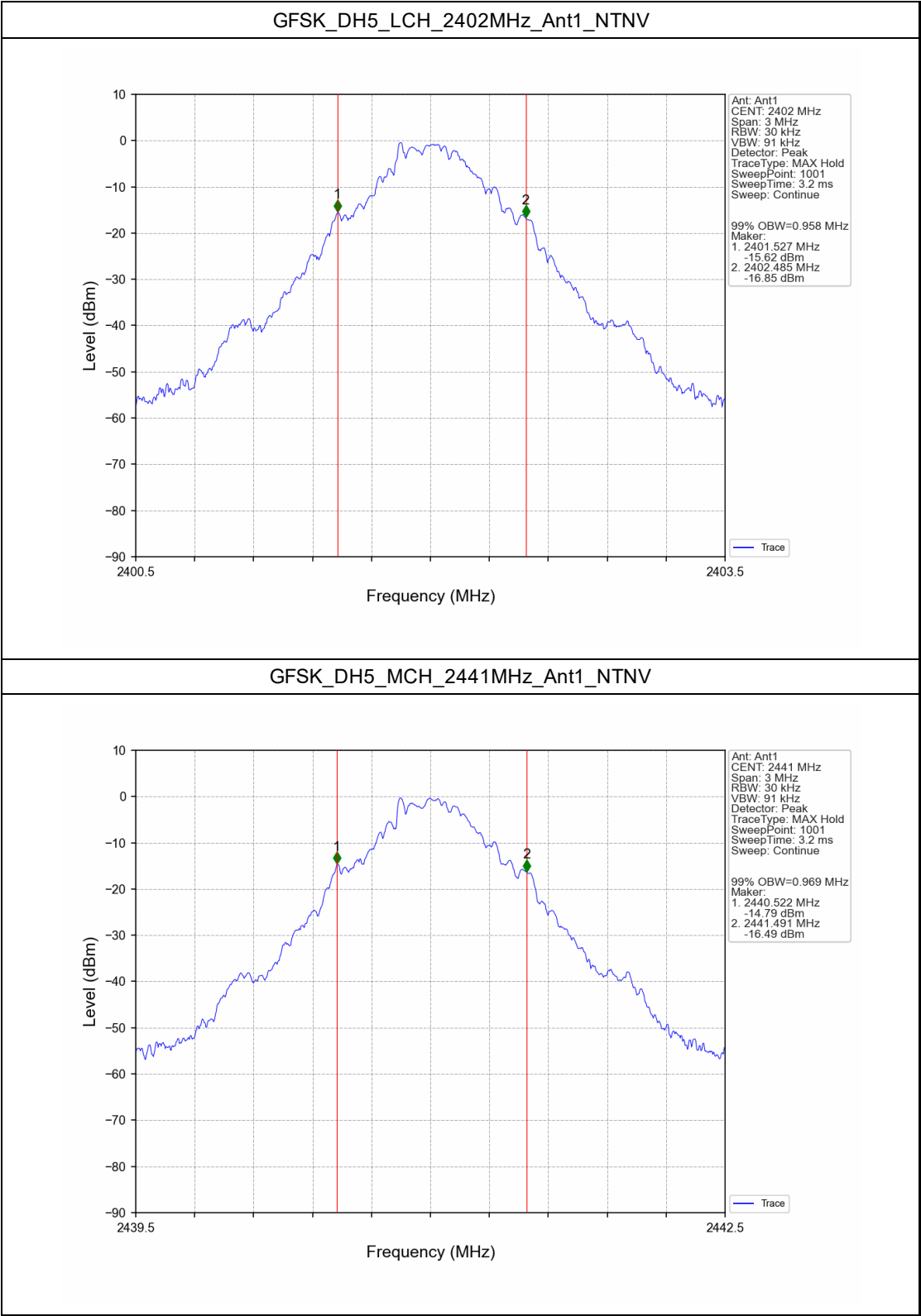
1.1.1 OBW

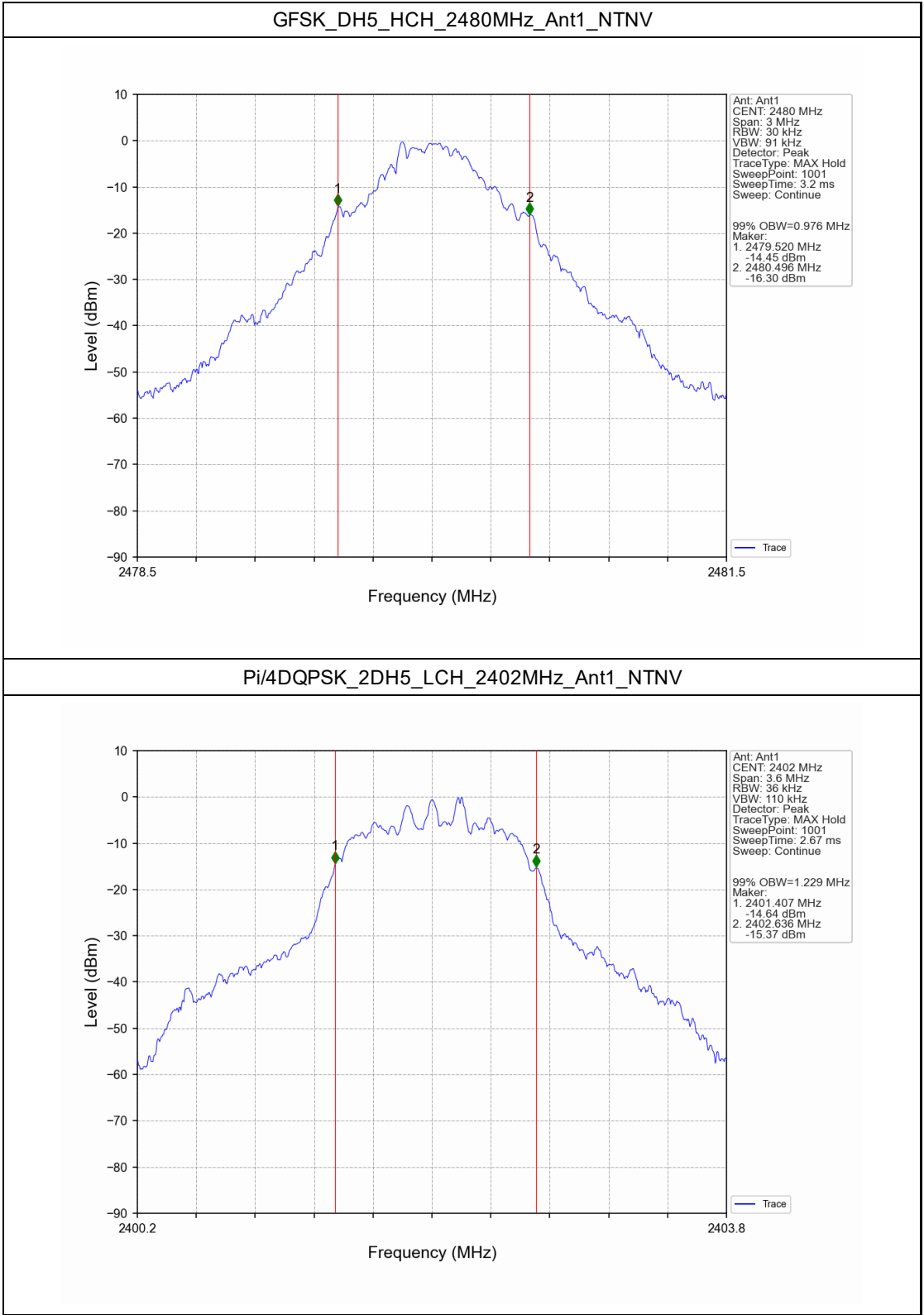
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.958	/	Pass
		2441	DH5	1	0.969	/	Pass
		2480	DH5	1	0.976	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.229	/	Pass
		2441	2DH5	1	1.239	/	Pass
		2480	2DH5	1	1.247	/	Pass
8DPSK	SISO	2402	3DH5	1	1.217	/	Pass
		2441	3DH5	1	1.218	/	Pass
		2480	3DH5	1	1.216	/	Pass

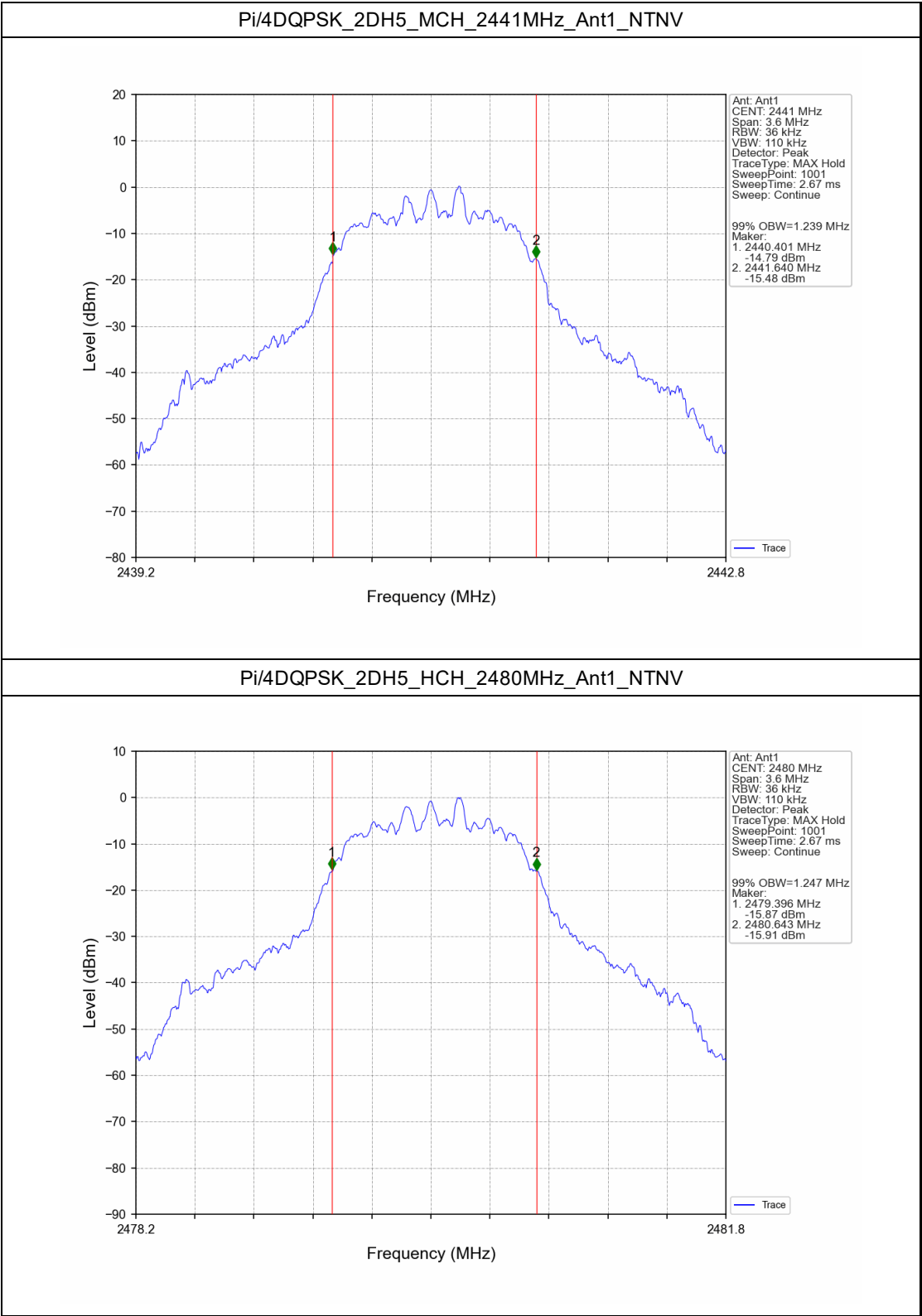
1.1.2 20dB BW

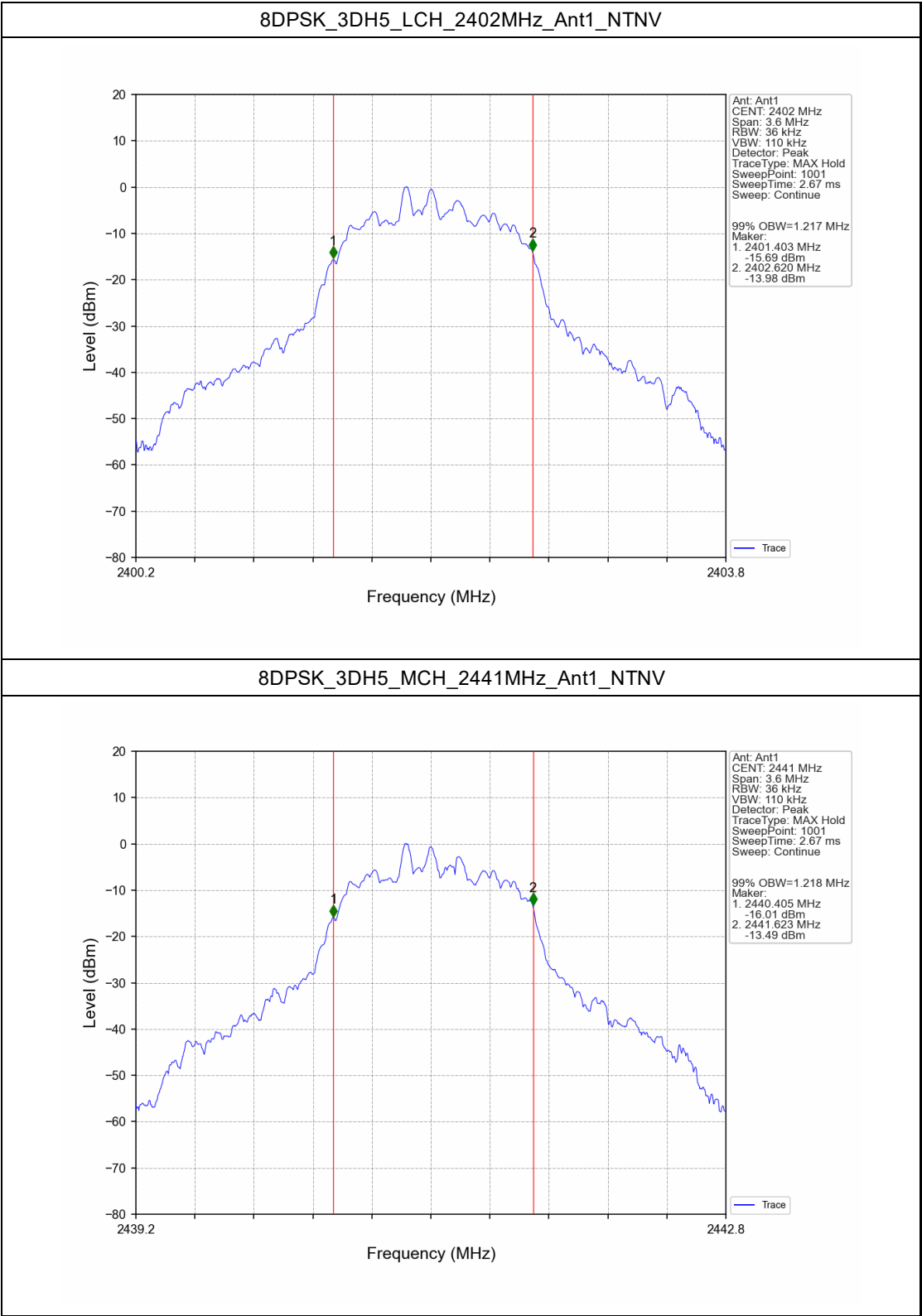
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.055	/	Pass
		2441	DH5	1	1.062	/	Pass
		2480	DH5	1	1.072	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.339	/	Pass
		2441	2DH5	1	1.343	/	Pass
		2480	2DH5	1	1.353	/	Pass
8DPSK	SISO	2402	3DH5	1	1.310	/	Pass
		2441	3DH5	1	1.302	/	Pass
		2480	3DH5	1	1.301	/	Pass

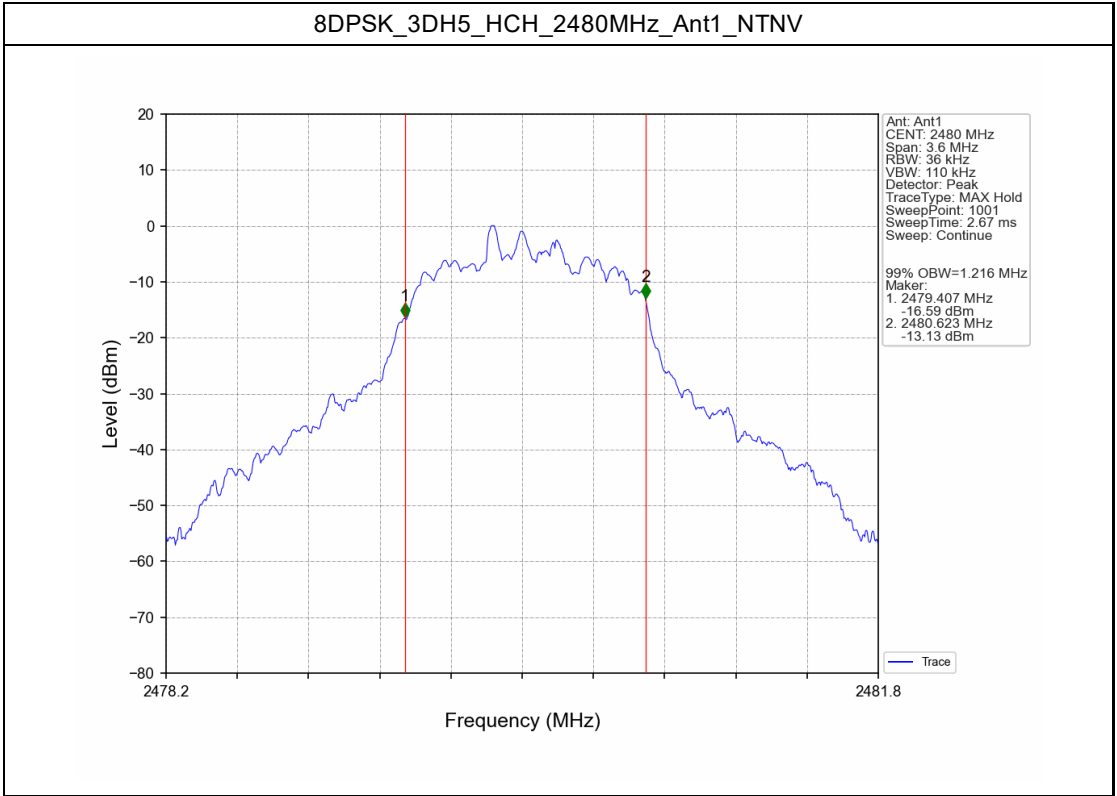
1.2 Test Graph
1.2.1 OBW



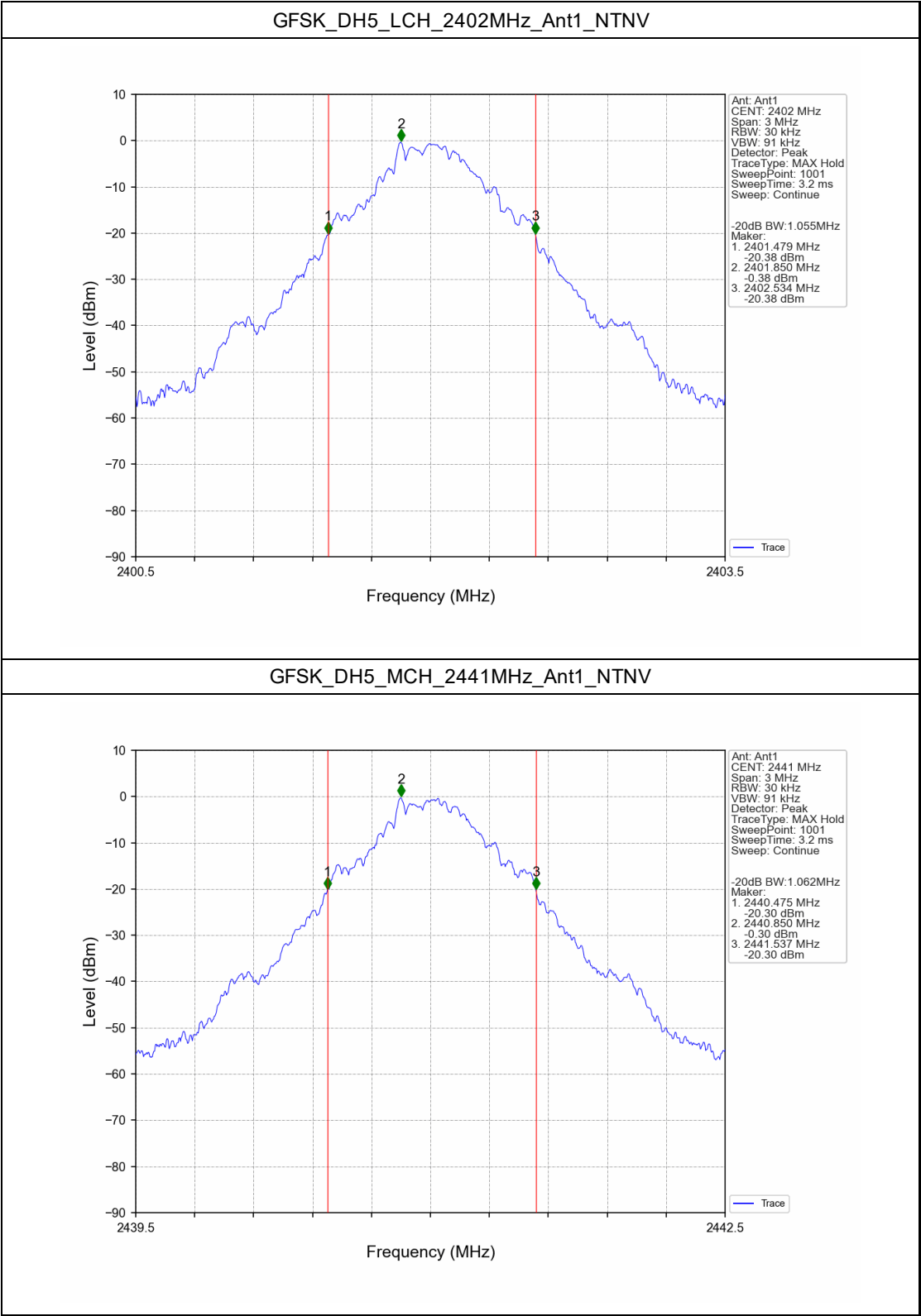


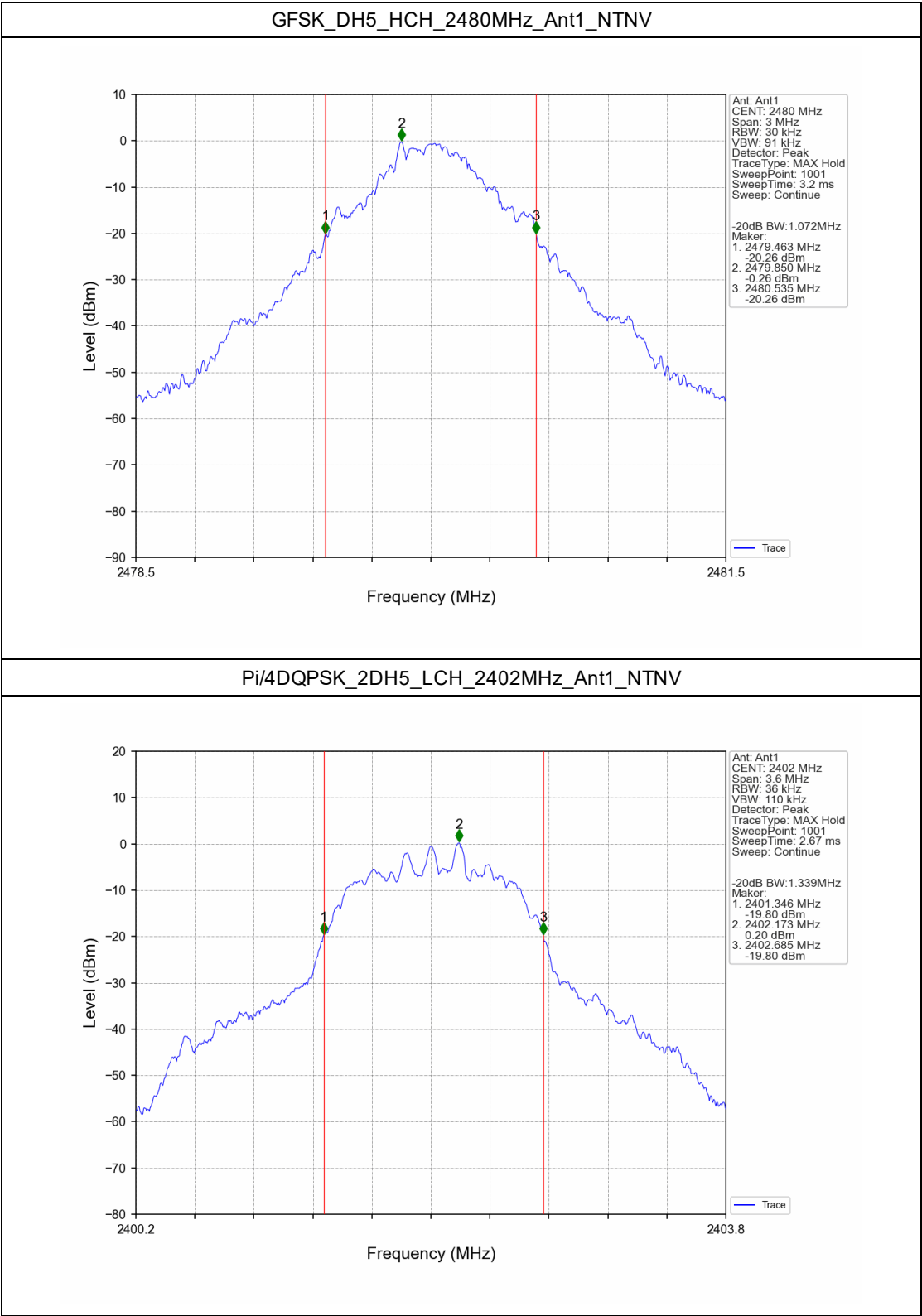


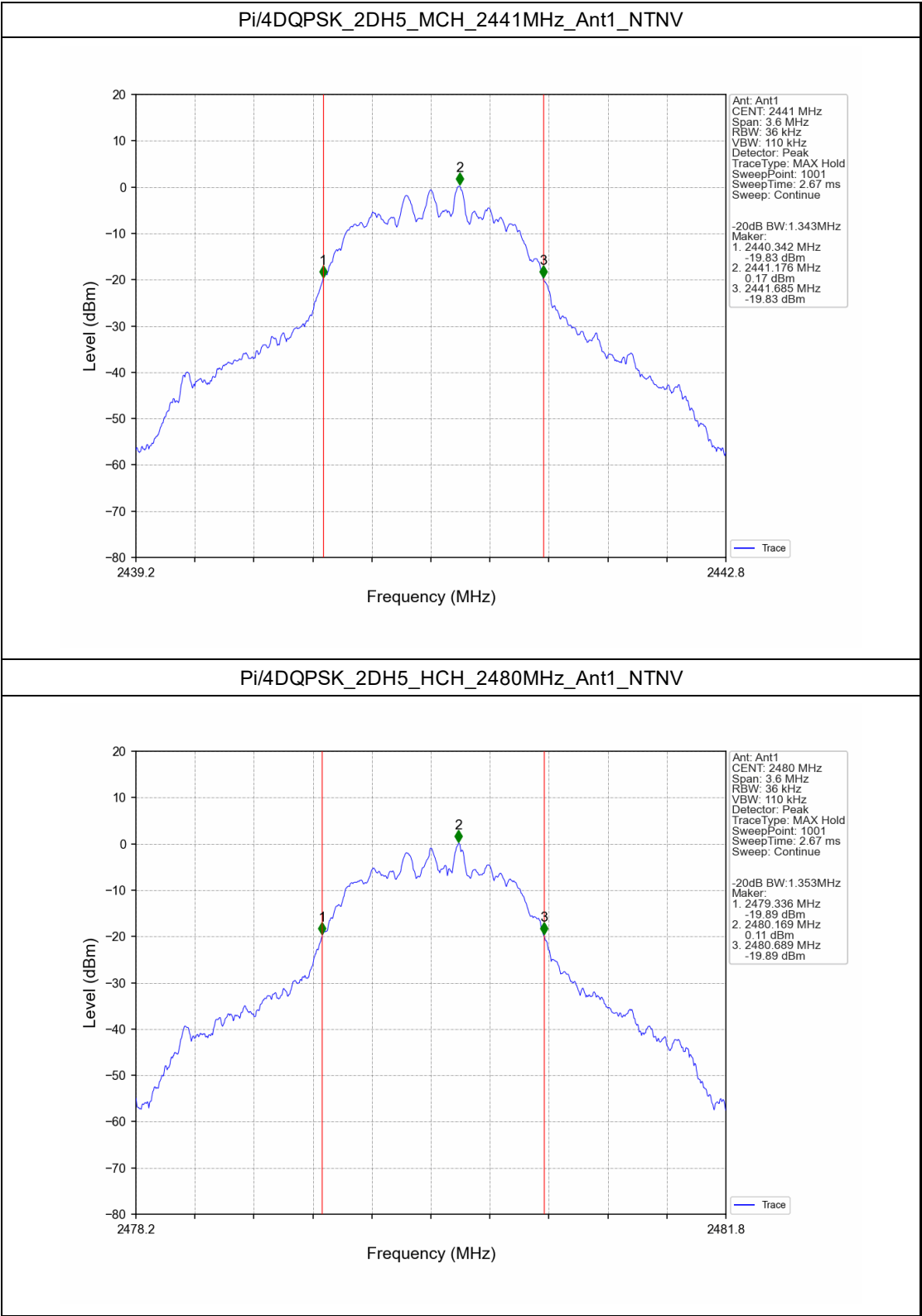


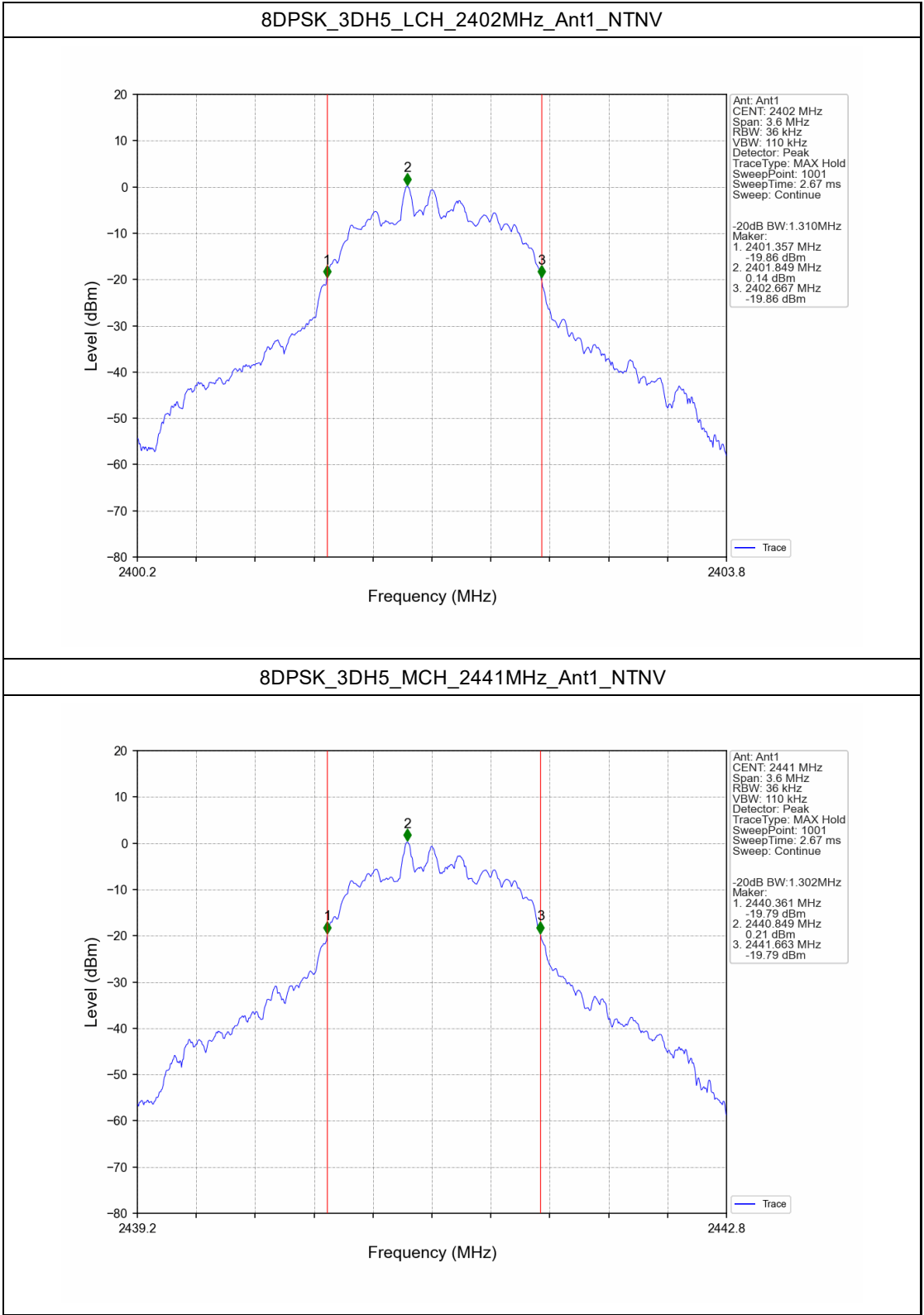


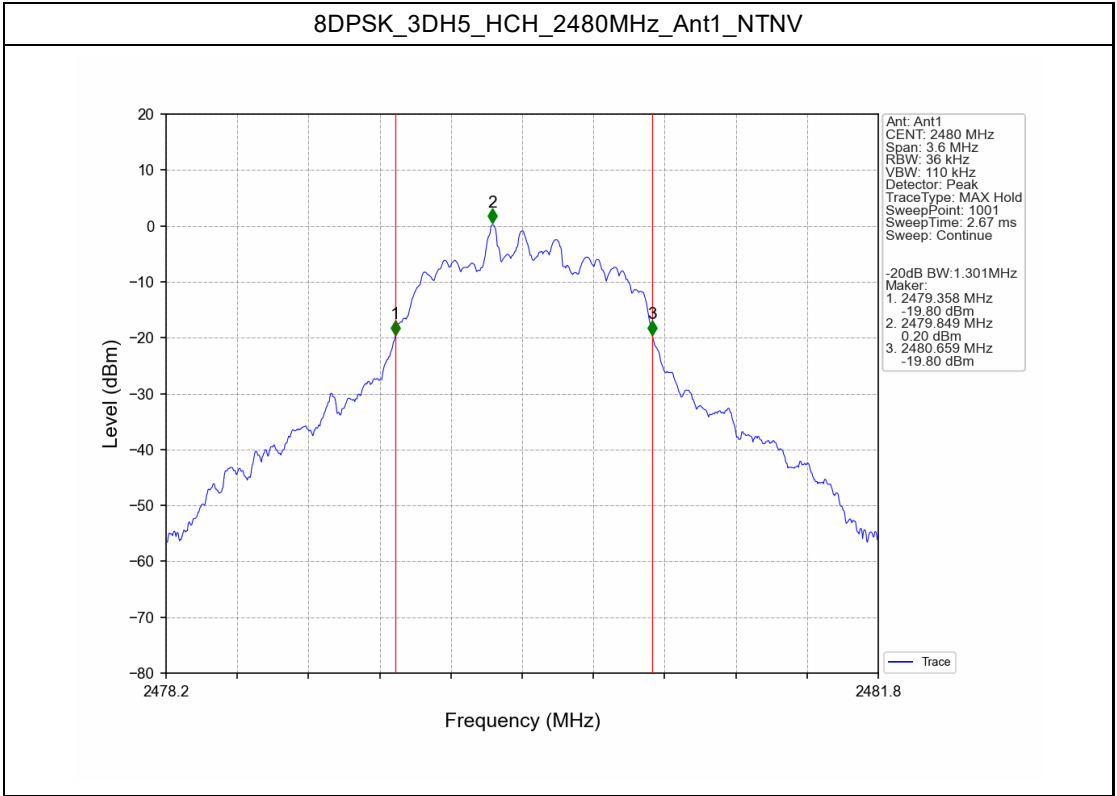
1.2.2 20dB BW











2. Maximum Conducted Output Power

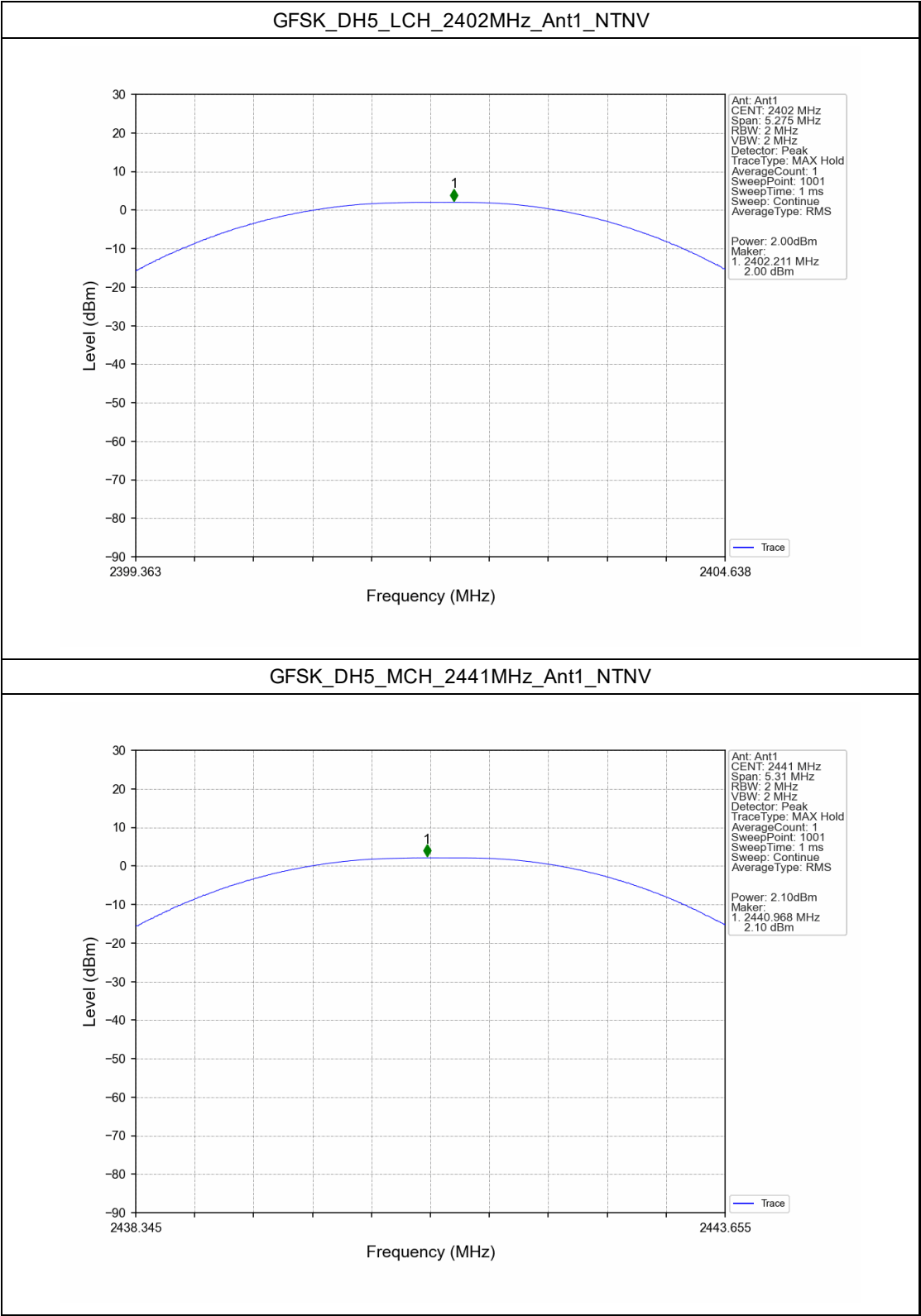
2.1 Test Result

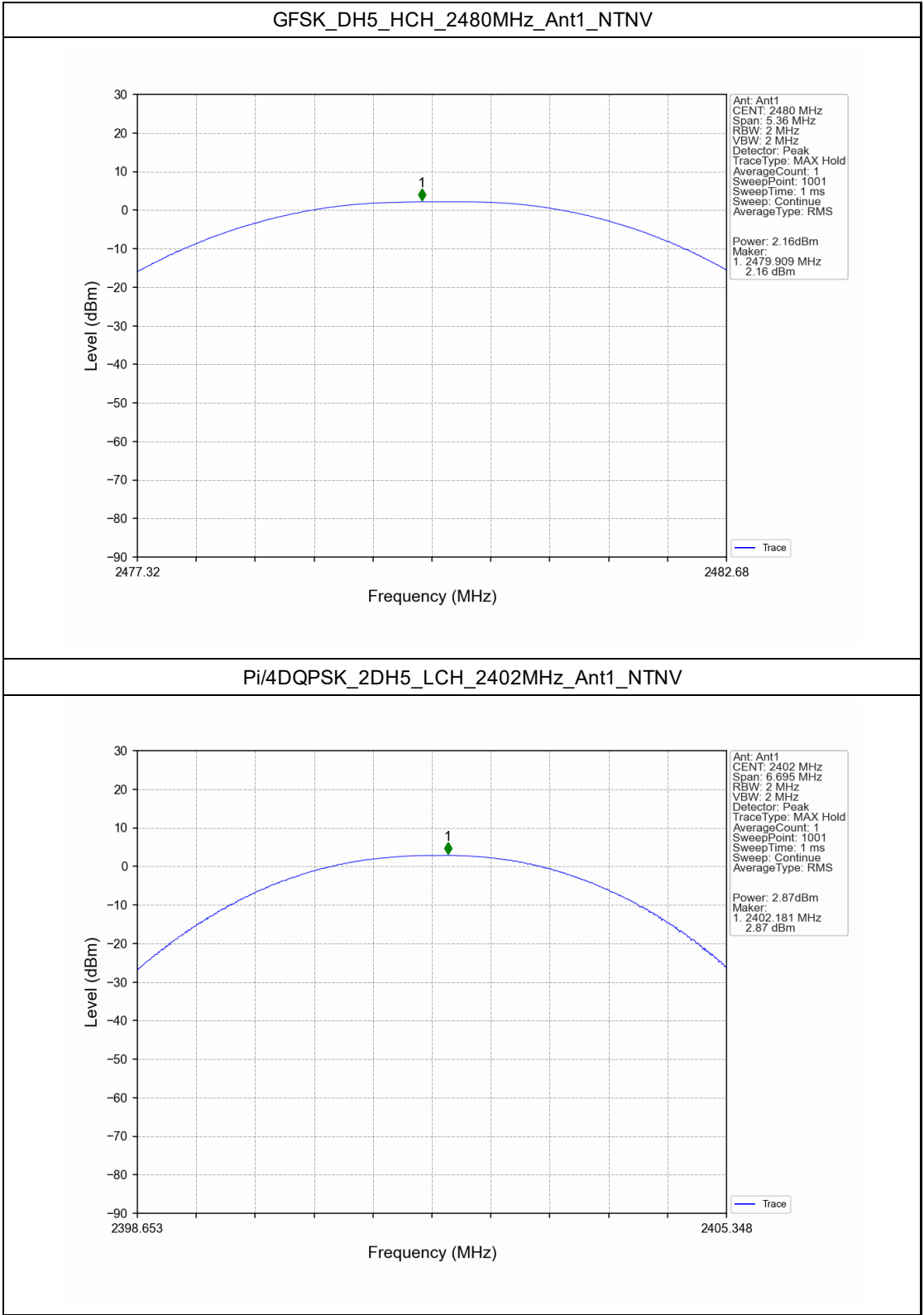
2.1.1 Power

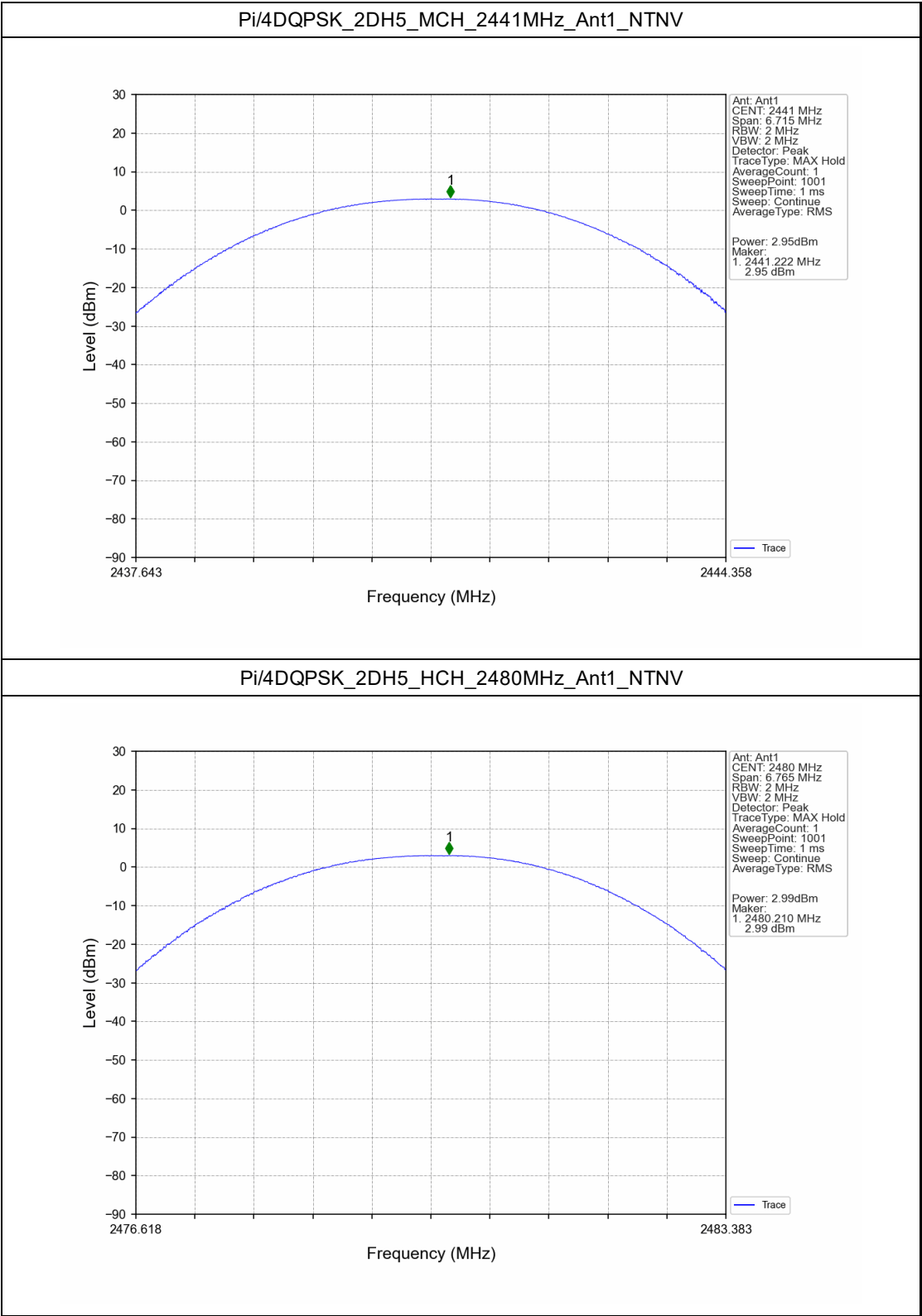
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.00	<=20.97	Pass
		2441	DH5	2.10	<=20.97	Pass
		2480	DH5	2.16	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.87	<=20.97	Pass
		2441	2DH5	2.95	<=20.97	Pass
		2480	2DH5	2.99	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.20	<=20.97	Pass
		2441	3DH5	3.30	<=20.97	Pass
		2480	3DH5	3.40	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.70dBi;						

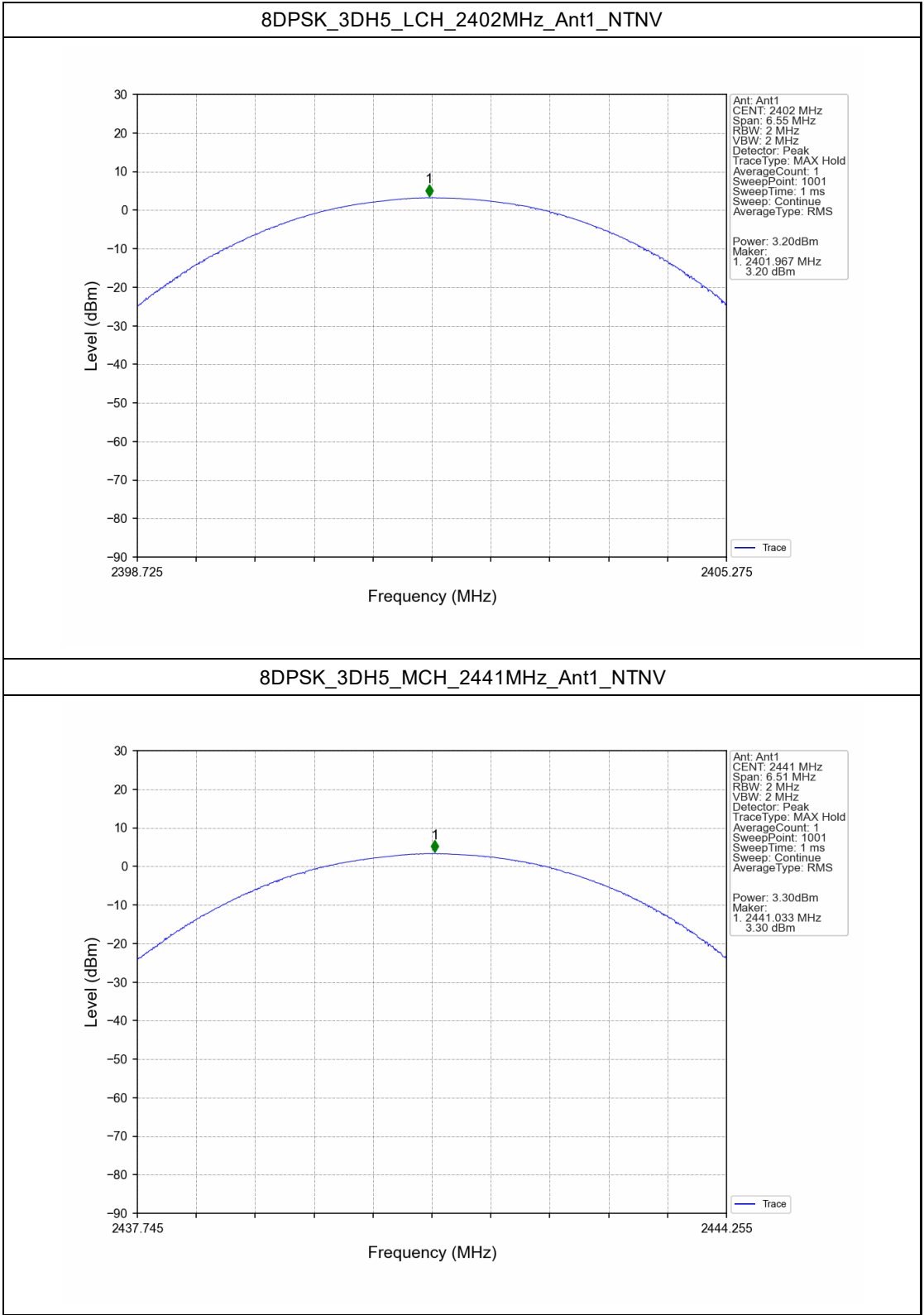
2.2 Test Graph

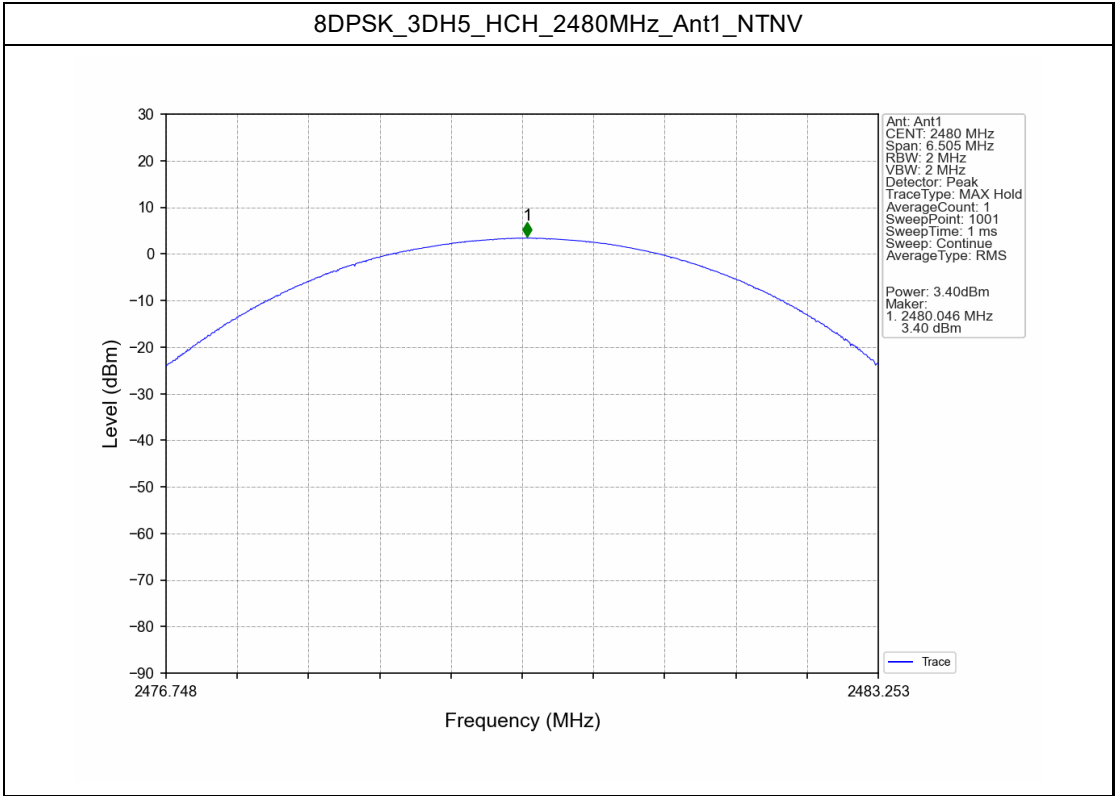
2.2.1 Power











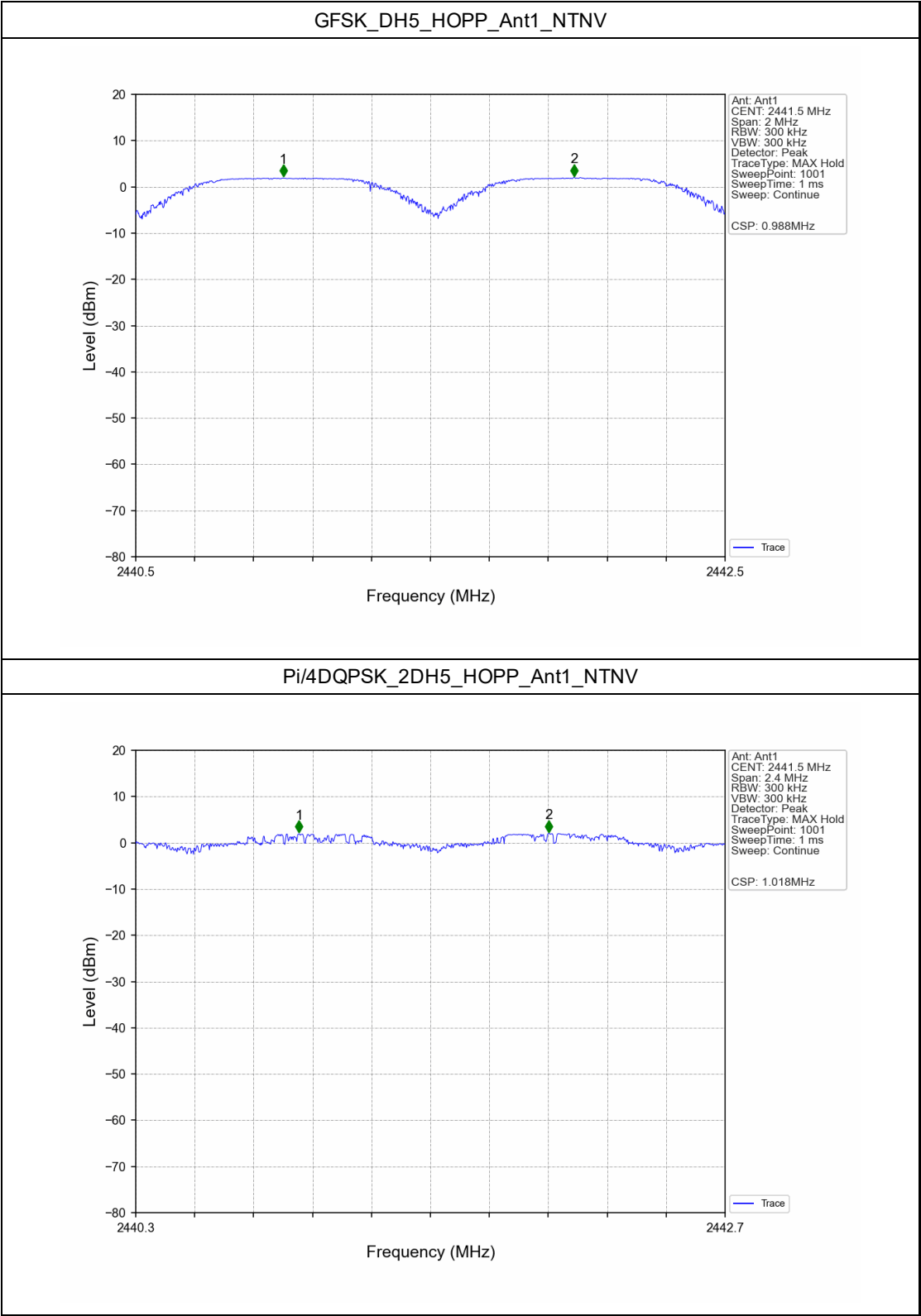
3. Carrier Frequency Separation

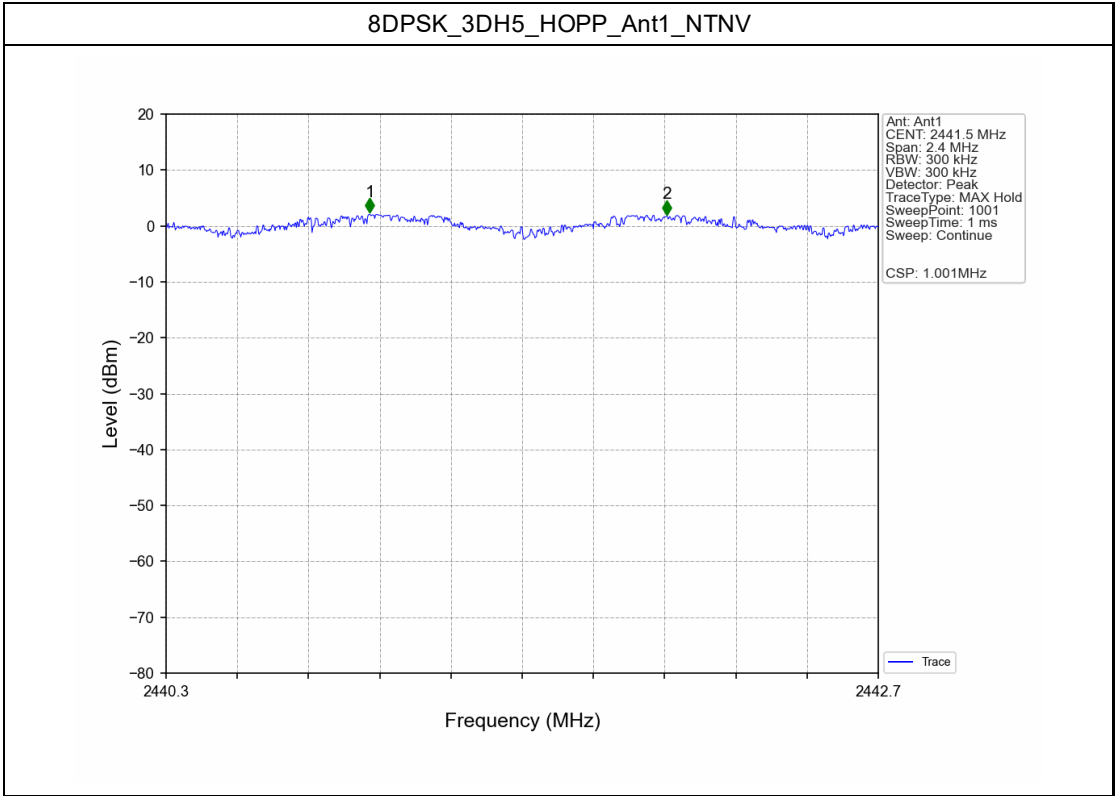
3.1 Test Result

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	0.988	1.072	≥ 0.715	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.018	1.353	≥ 0.902	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.310	≥ 0.873	Pass

3.2 Test Graph
3.2.1 Ant1





4. Number of Hopping Frequencies

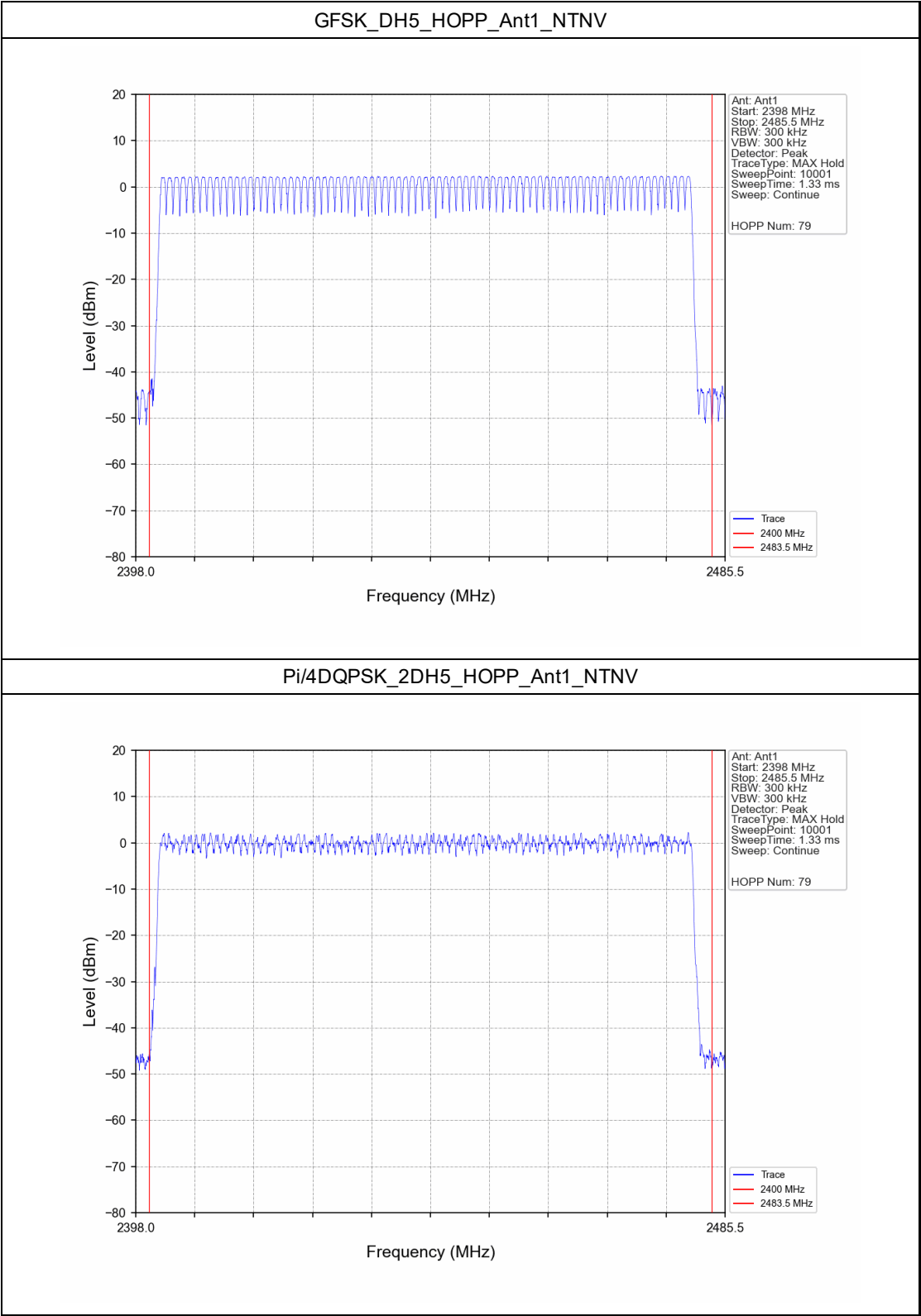
4.1 Test Result

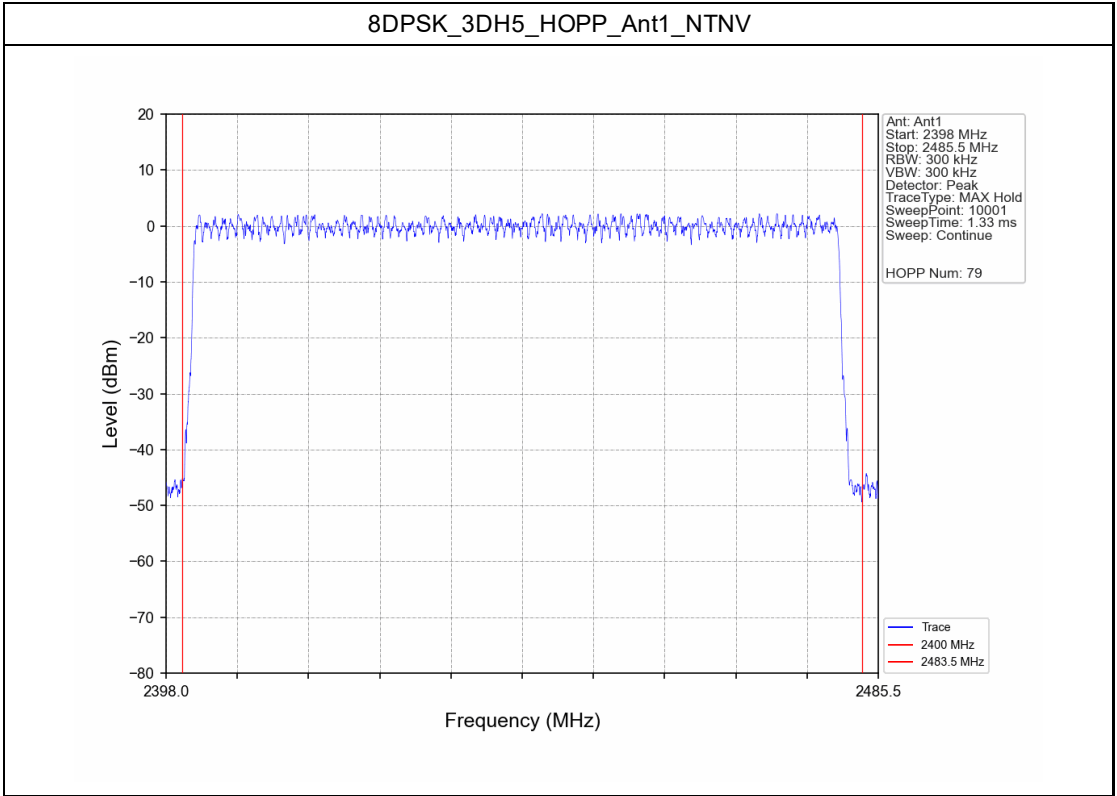
4.1.1 HoppNum

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





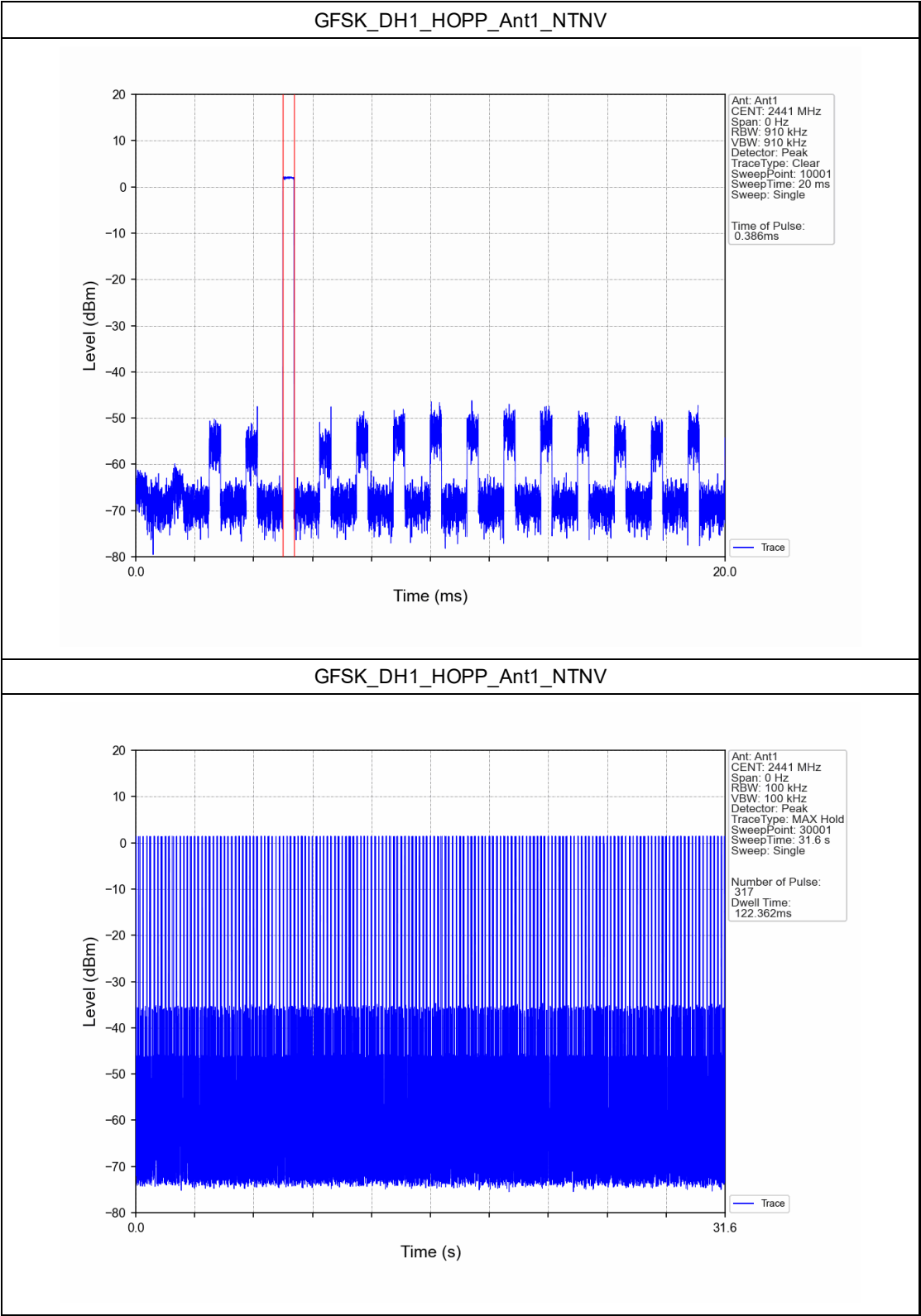
5. Time of Occupancy (Dwell Time)

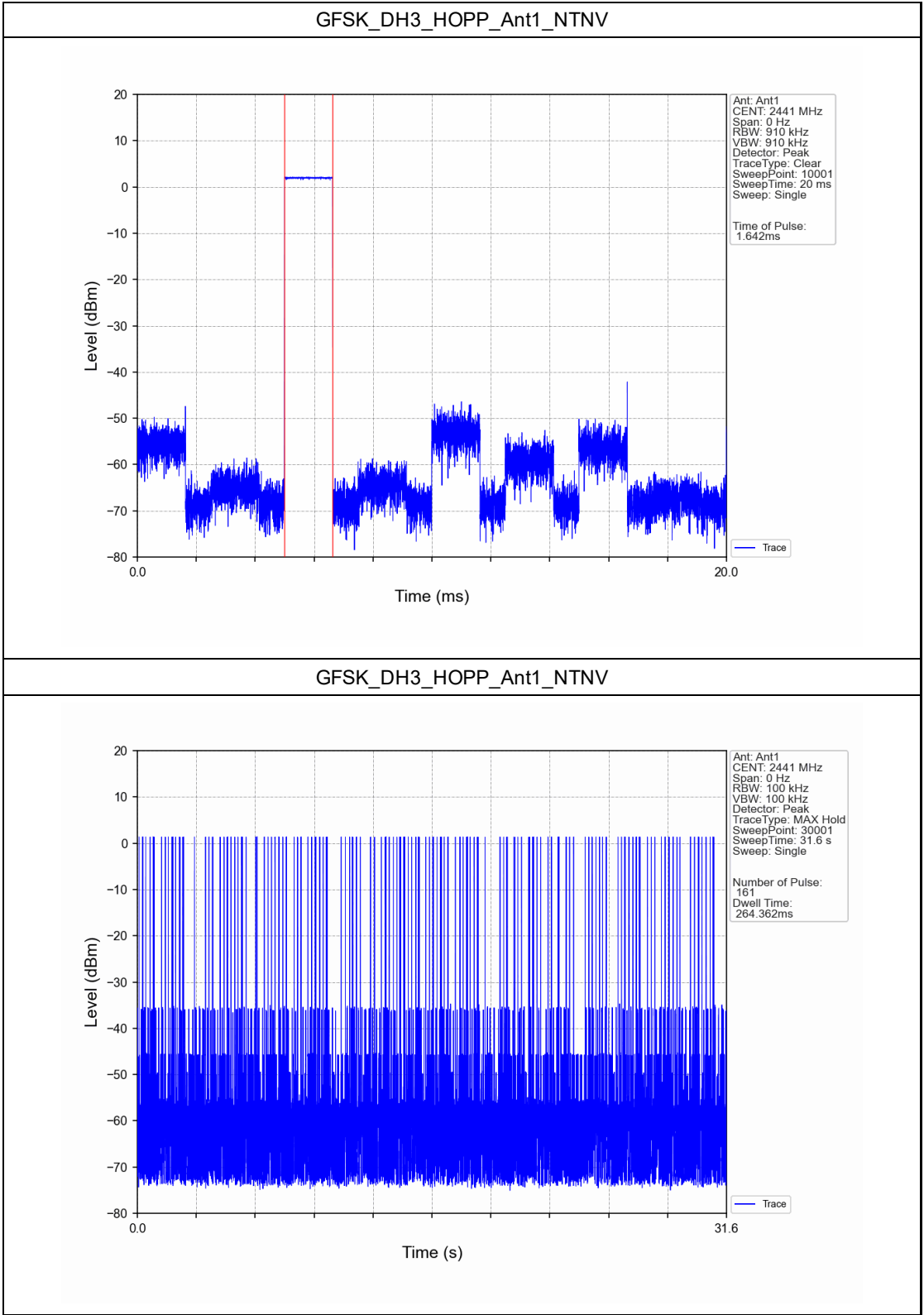
5.1 Test Result

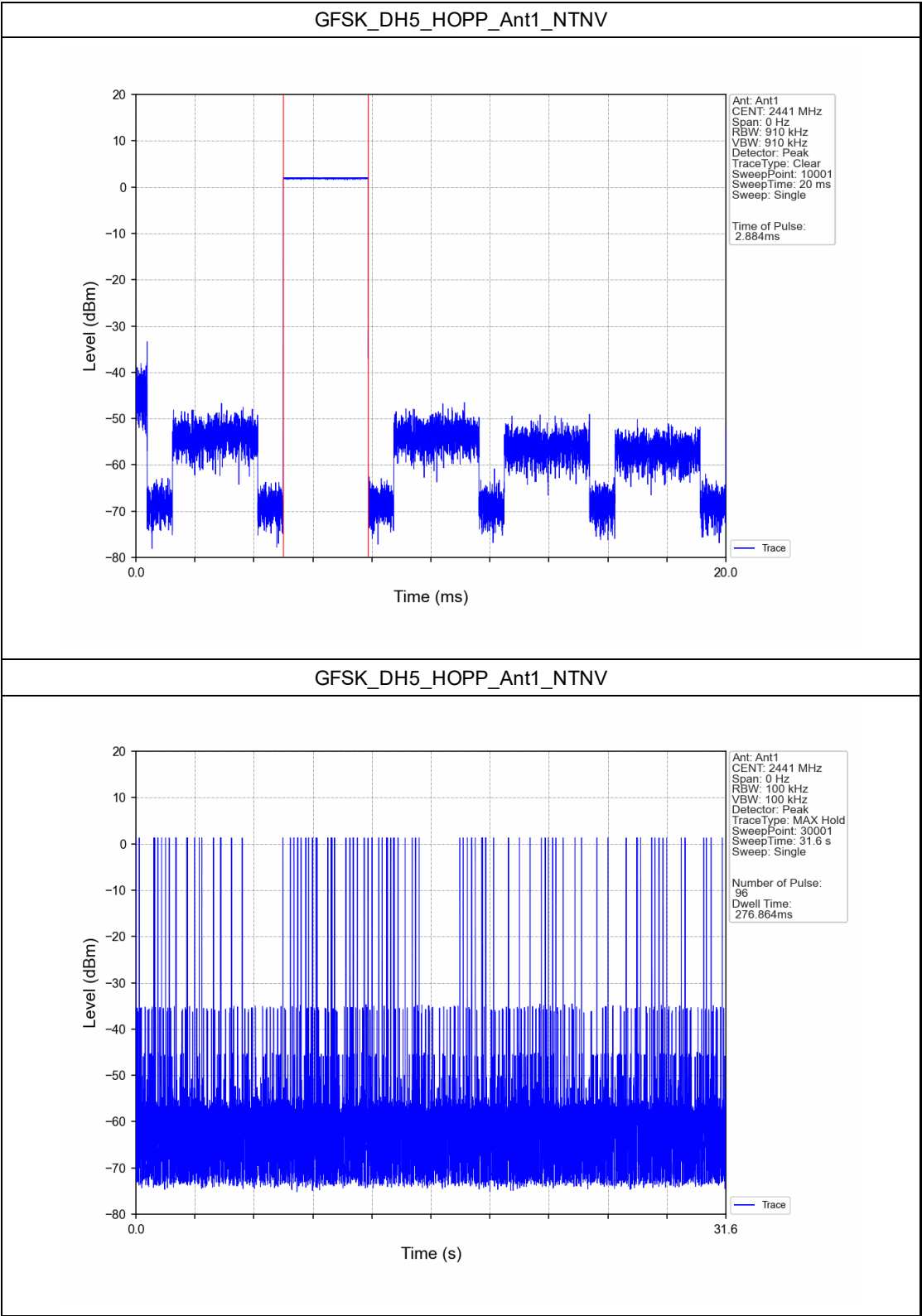
5.1.1 Ant1

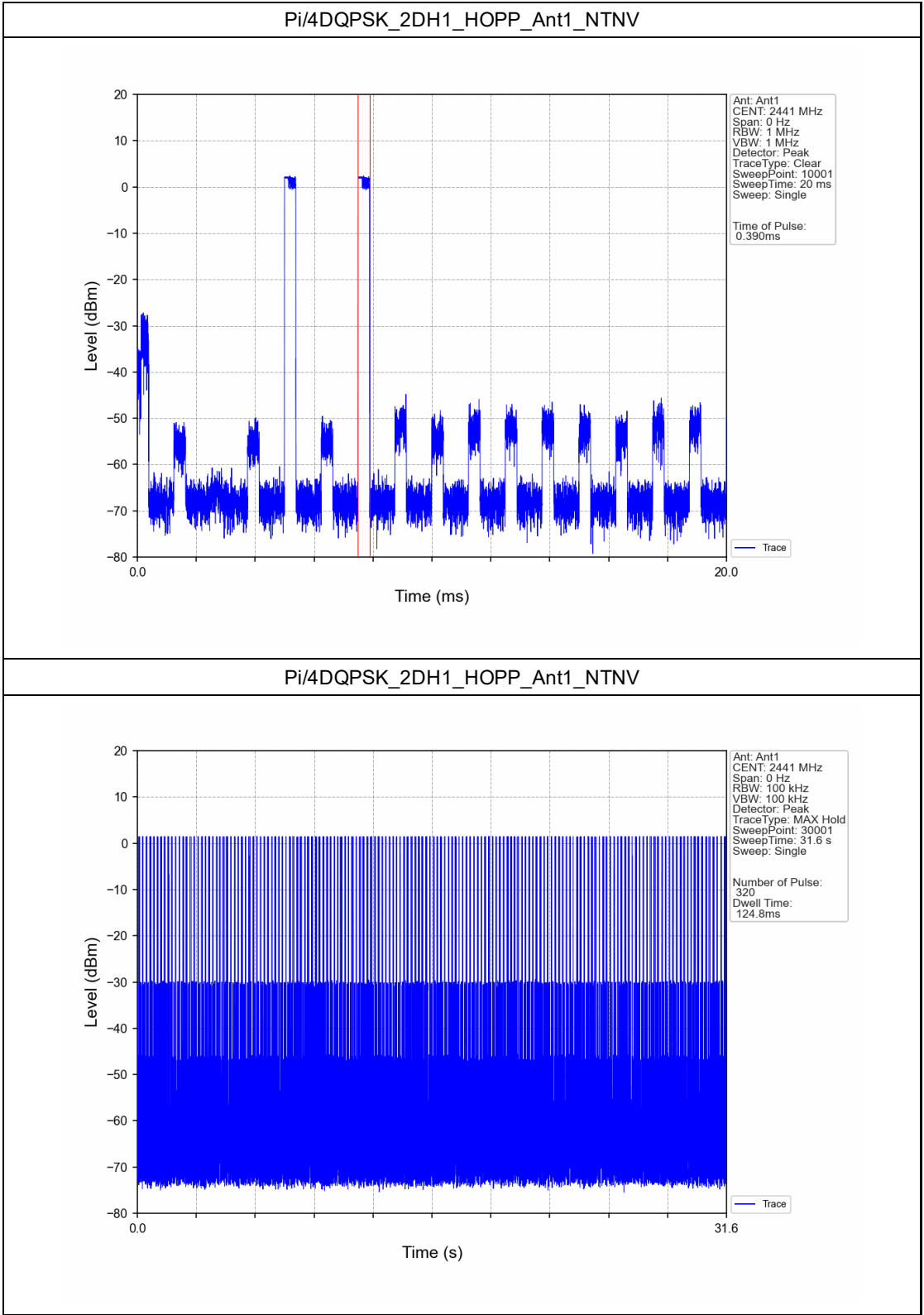
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	317	122.362	<=400	Pass
			DH3	1.642	31.600	161	264.362	<=400	Pass
			DH5	2.884	31.600	96	276.864	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.642	31.600	154	252.868	<=400	Pass
			2DH5	2.896	31.600	107	309.872	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	319	124.410	<=400	Pass
			3DH3	1.640	31.600	165	270.600	<=400	Pass
			3DH5	2.898	31.600	106	307.188	<=400	Pass

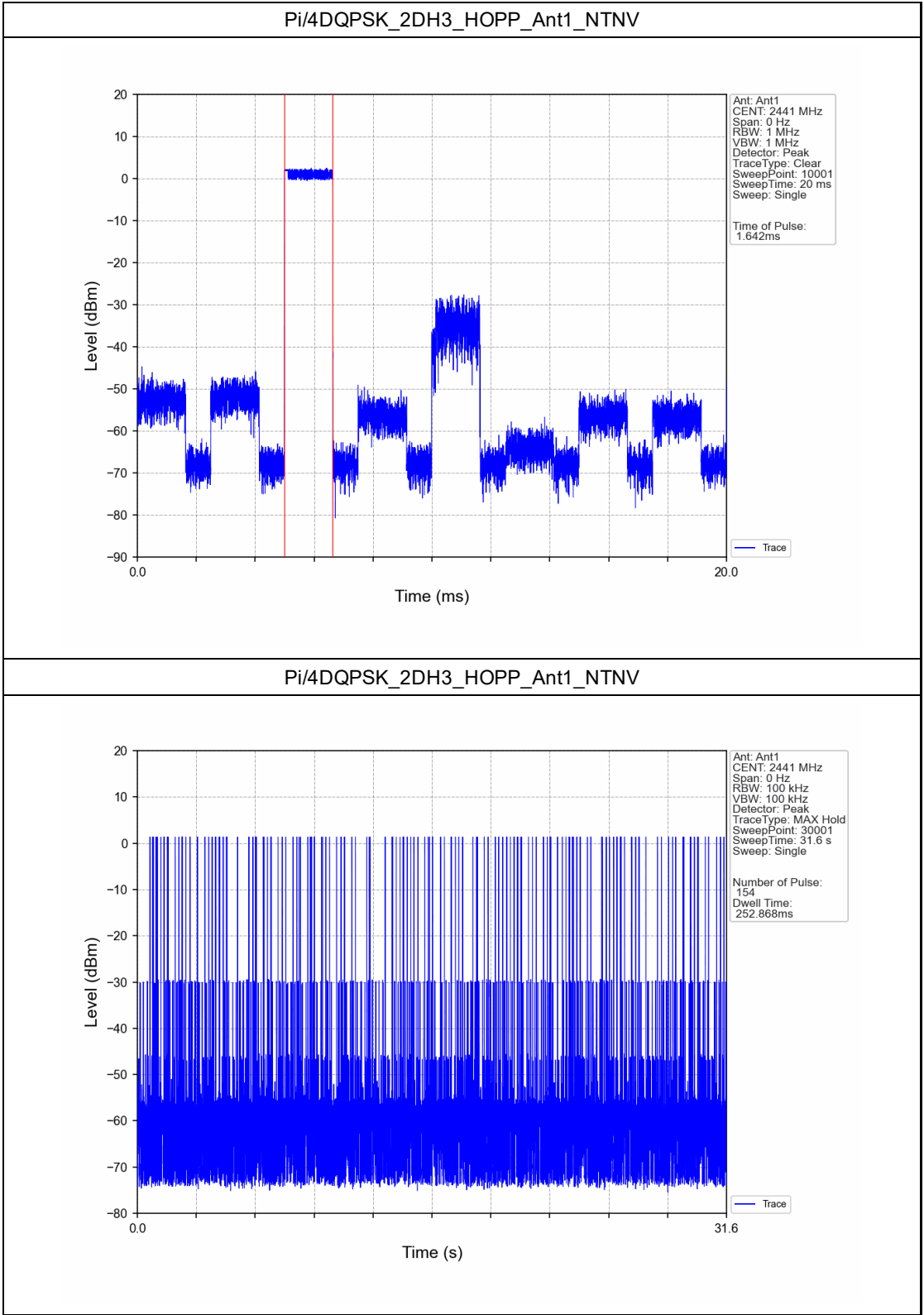
5.2 Test Graph
5.2.1 Ant1

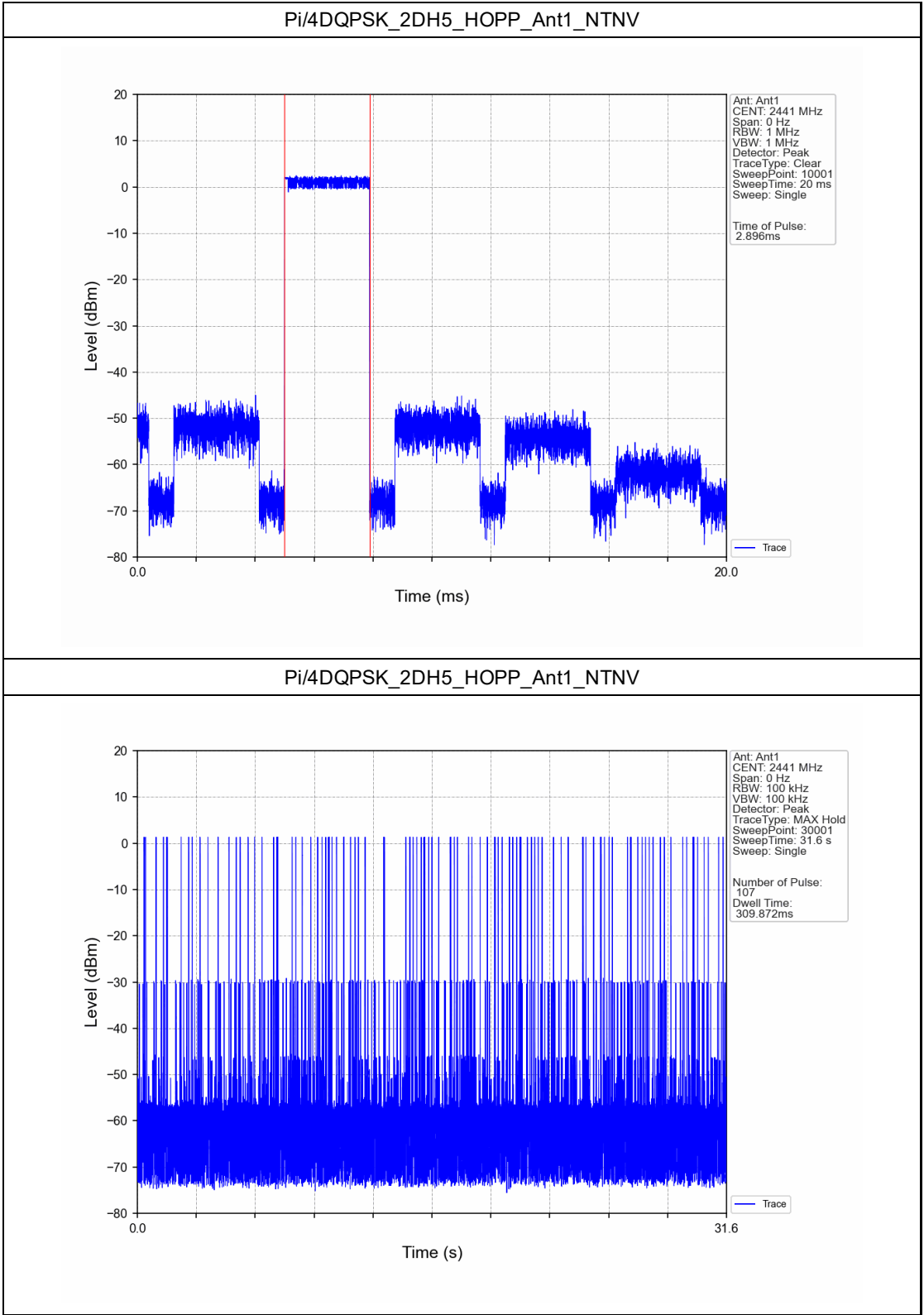


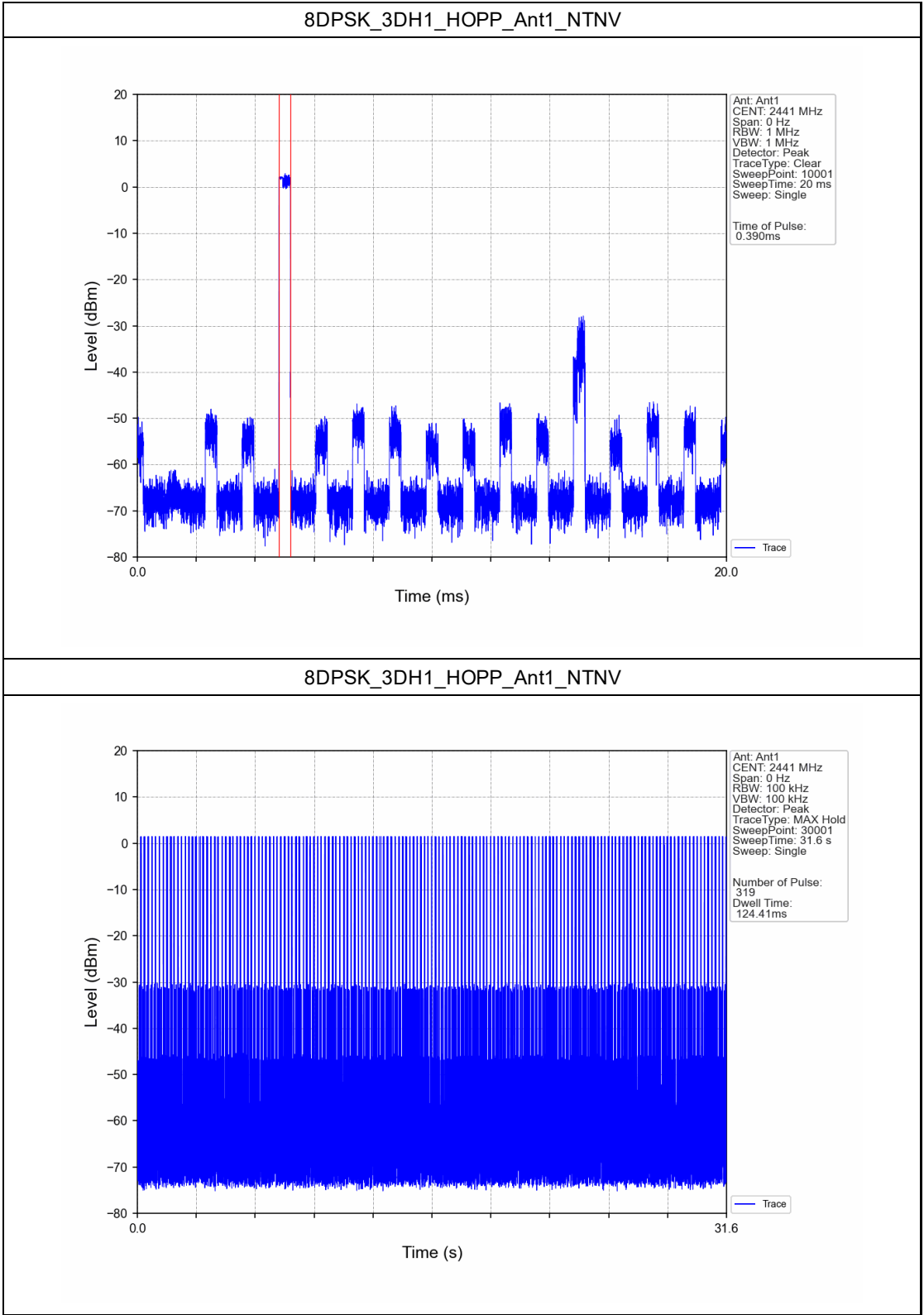


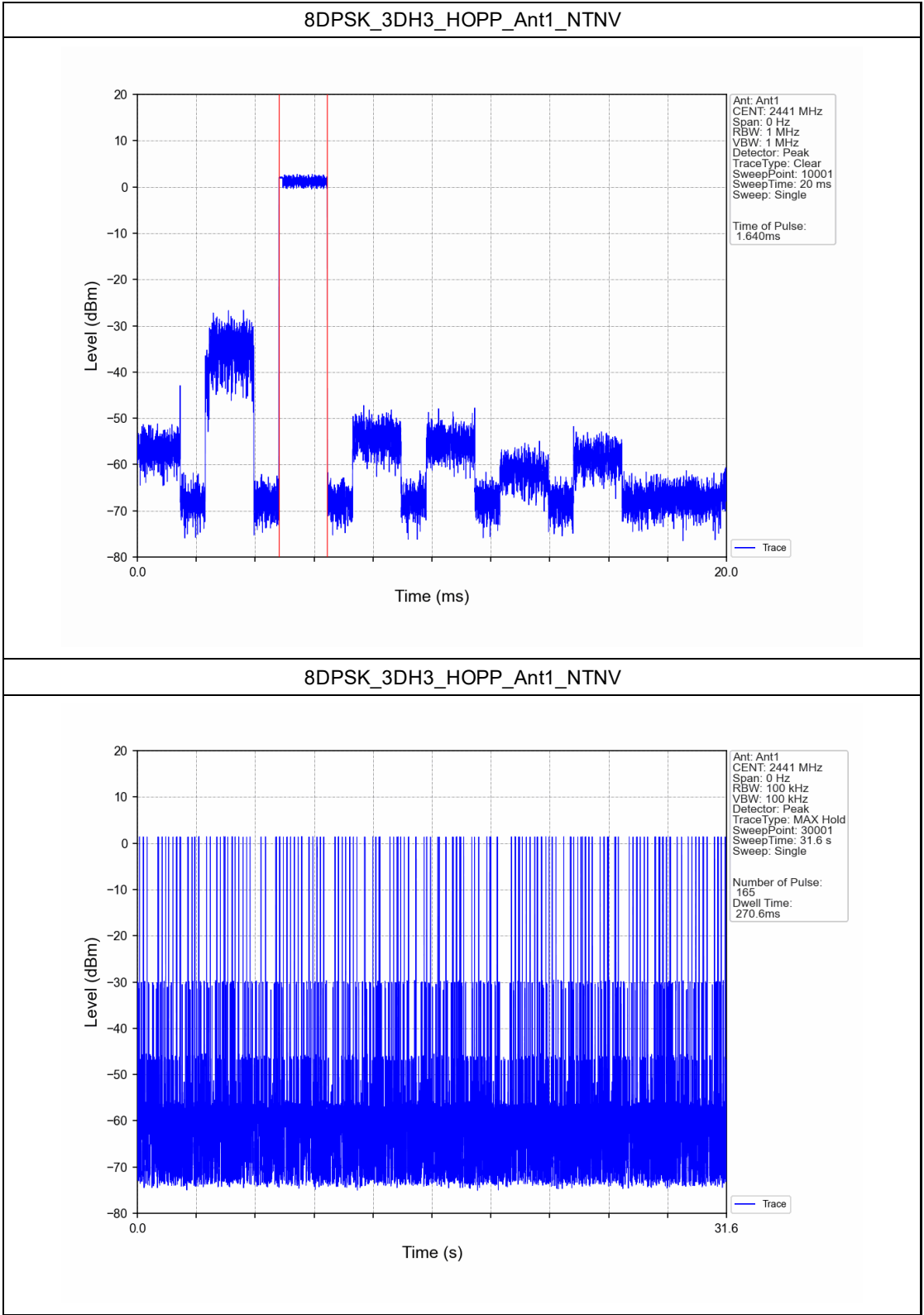


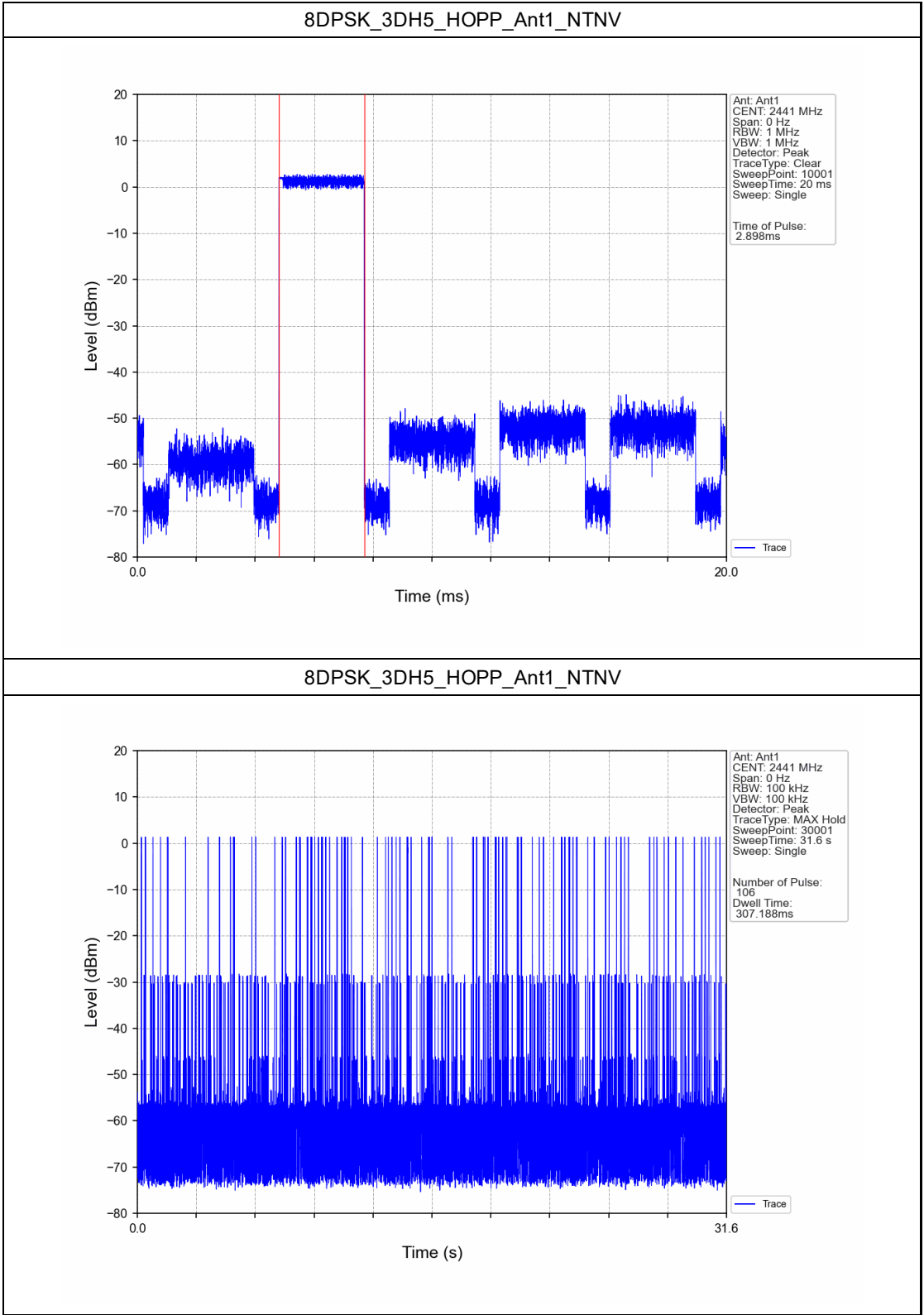












6. Unwanted Emissions In Non-restricted Frequency Bands

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	1.59
		2441	DH5	1	1.54
		2480	DH5	1	1.62
Pi/4DQPSK	SISO	2402	2DH5	1	1.61
		2441	2DH5	1	1.64
		2480	2DH5	1	1.59
8DPSK	SISO	2402	3DH5	1	1.62
		2441	3DH5	1	1.58
		2480	3DH5	1	1.61

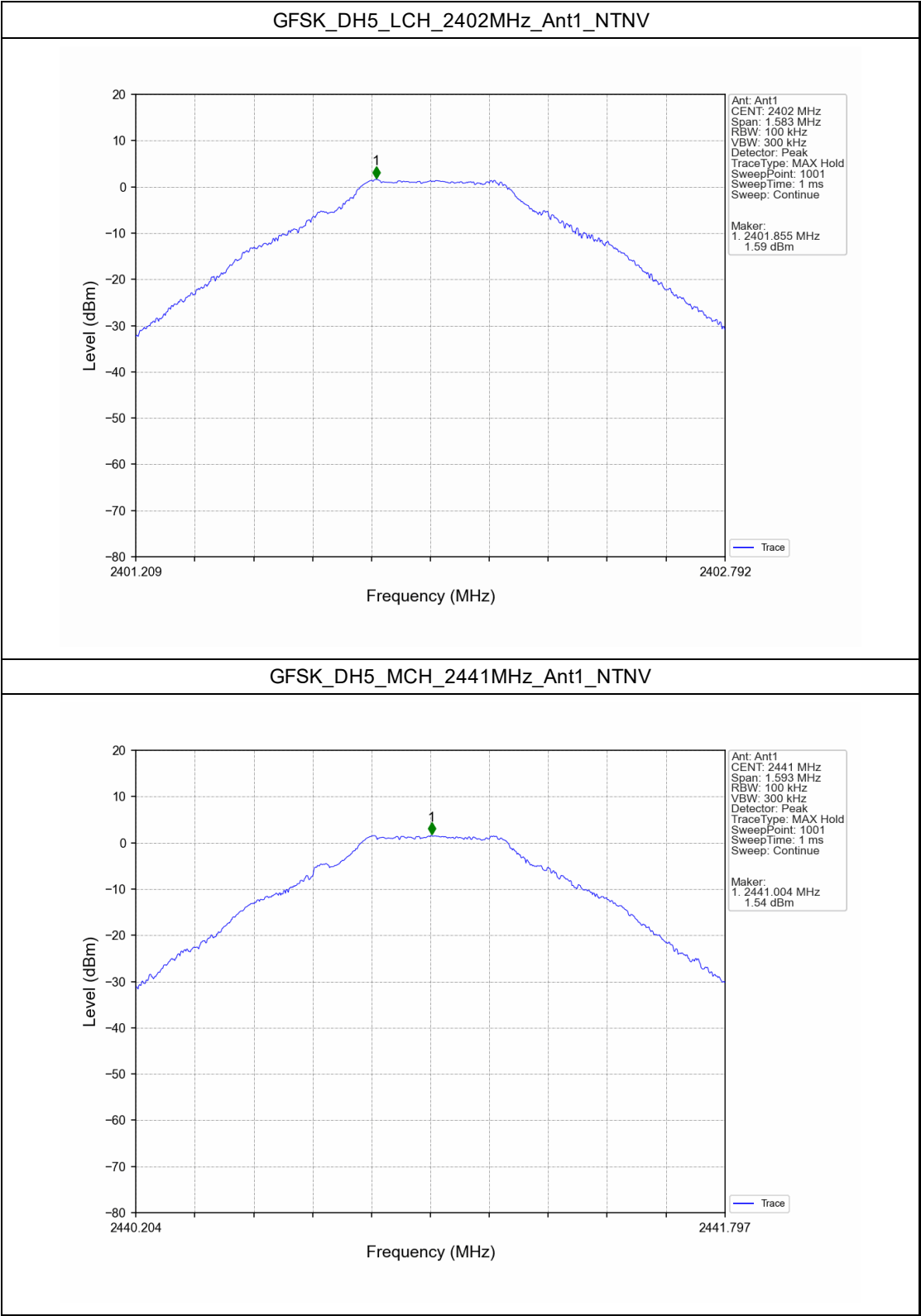
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

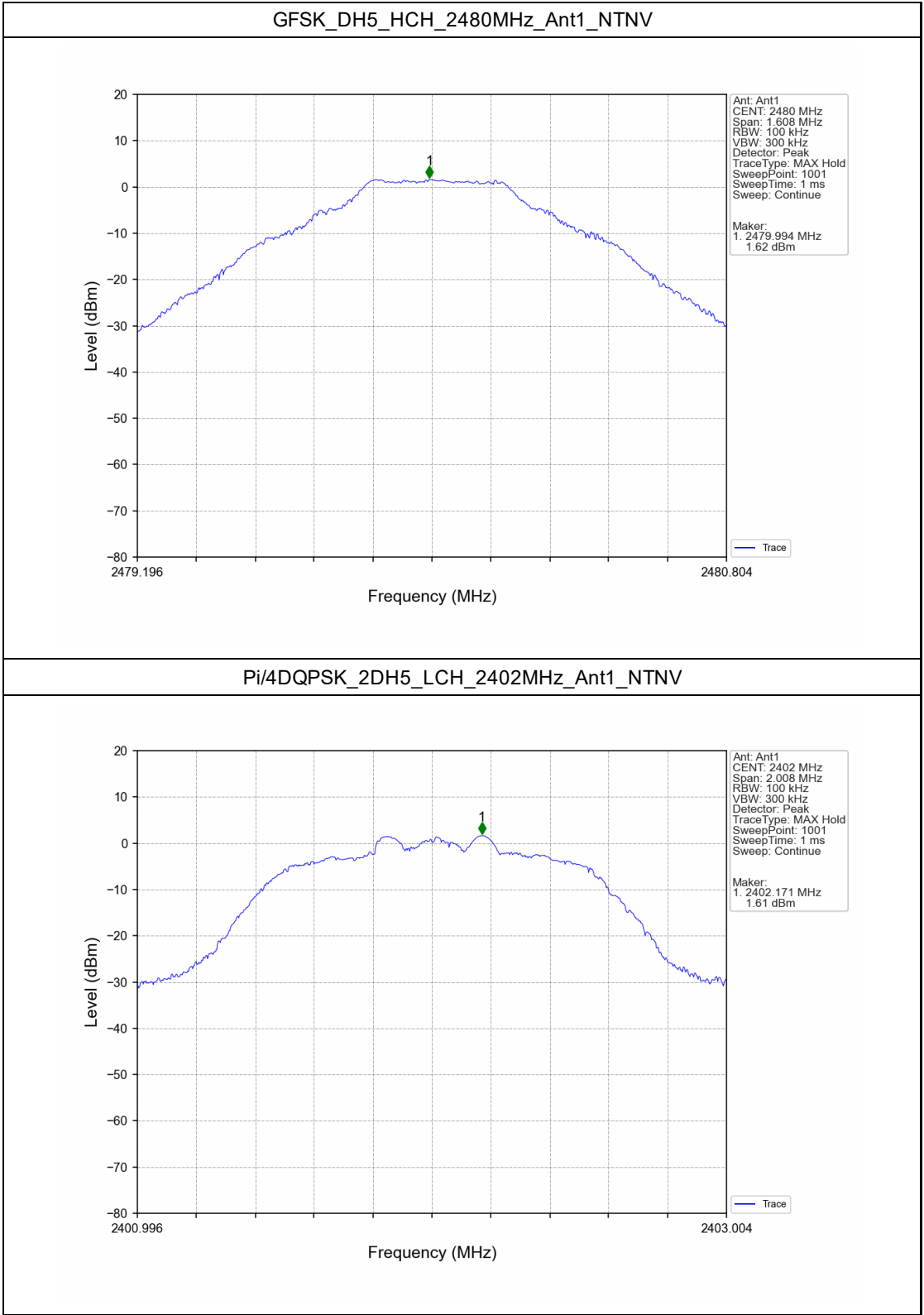
6.1.2 CSE

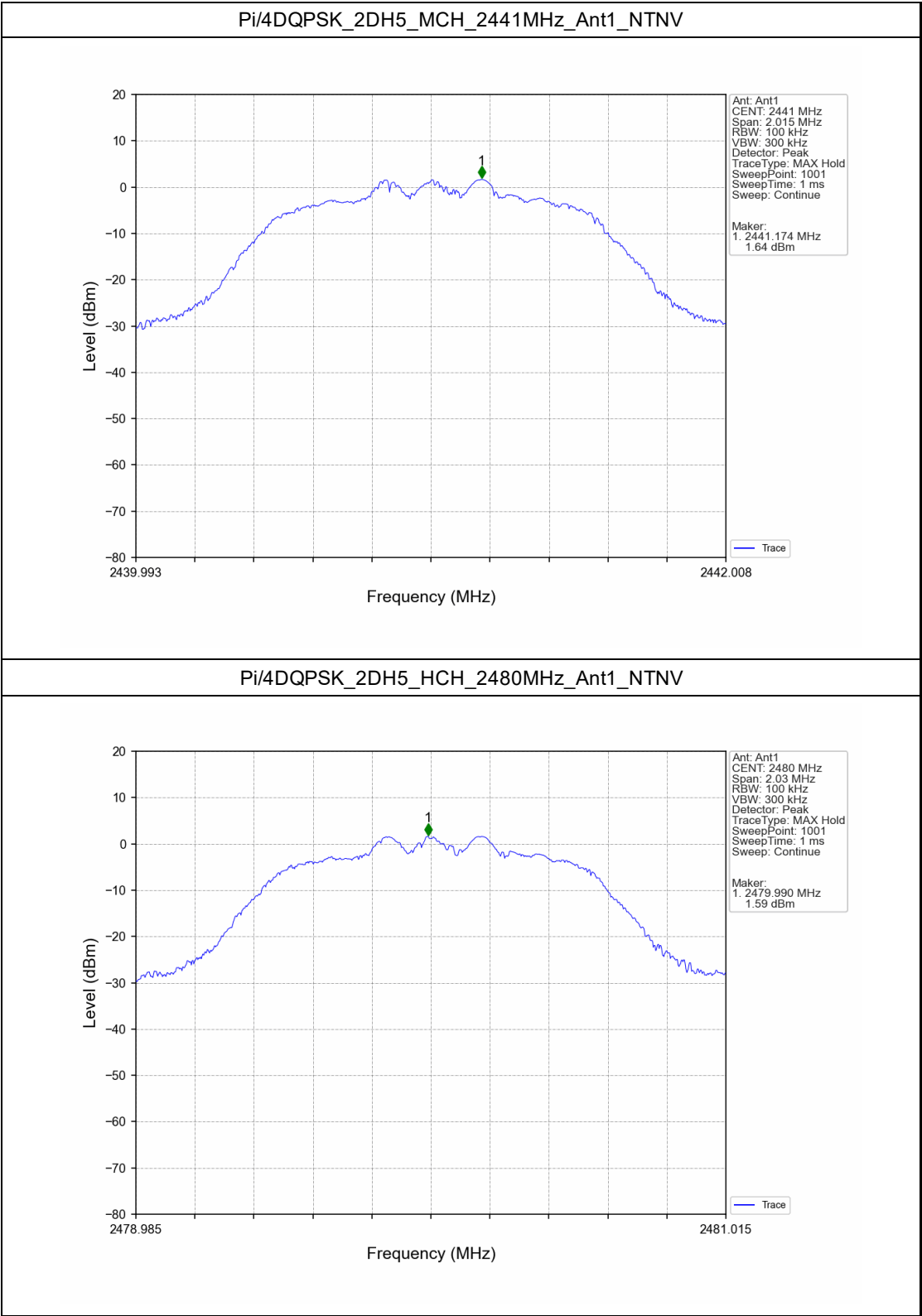
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.62	-18.38	Pass
		2441	DH5	1	1.62	-18.38	Pass
		2480	DH5	1	1.62	-18.38	Pass
		HOPP	DH5	1	1.62	-18.38	Pass
					1.62	-18.38	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.64	-18.36	Pass
		2441	2DH5	1	1.64	-18.36	Pass
		2480	2DH5	1	1.64	-18.36	Pass
		HOPP	2DH5	1	1.64	-18.36	Pass
					1.64	-18.36	Pass
8DPSK	SISO	2402	3DH5	1	1.62	-18.38	Pass
		2441	3DH5	1	1.62	-18.38	Pass
		2480	3DH5	1	1.62	-18.38	Pass
		HOPP	3DH5	1	1.62	-18.38	Pass
					1.62	-18.38	Pass

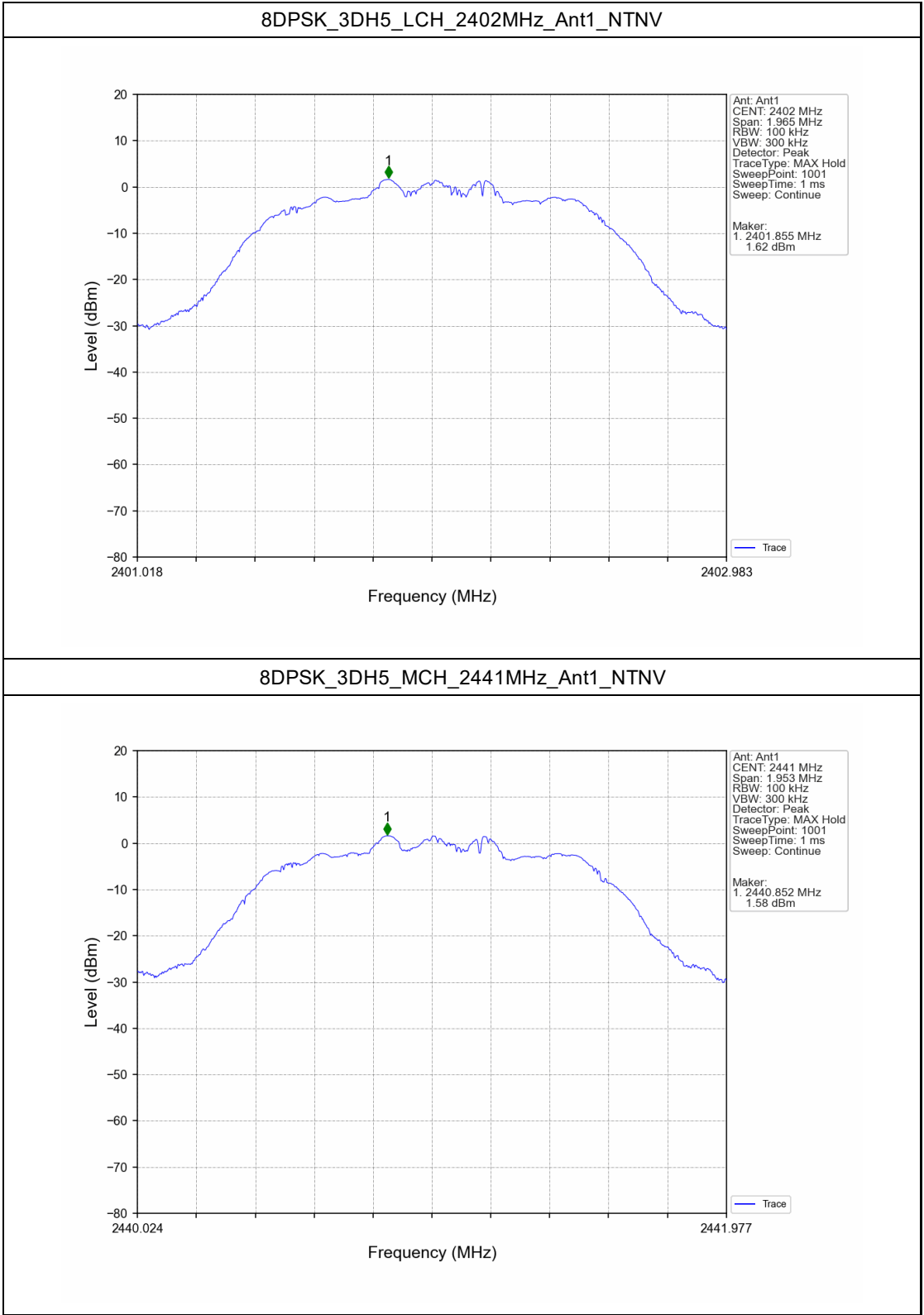
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

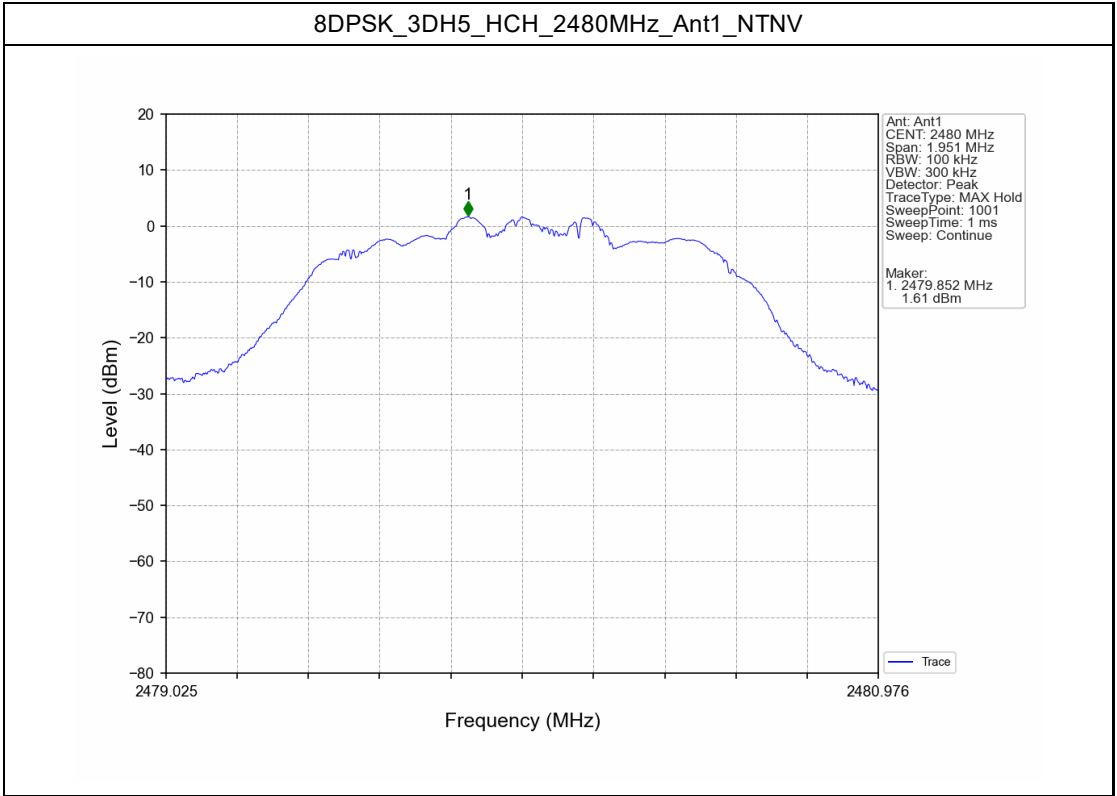
6.2 Test Graph
6.2.1 Ref











6.2.2 CSE

