



Annex for BT

Test Report No.: CTL2404237011-WF

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6.2 CSE 43

6.2.1 Test Result 43

FCCID: 2BGKZ-DFBSK2882

1. Bandwidth

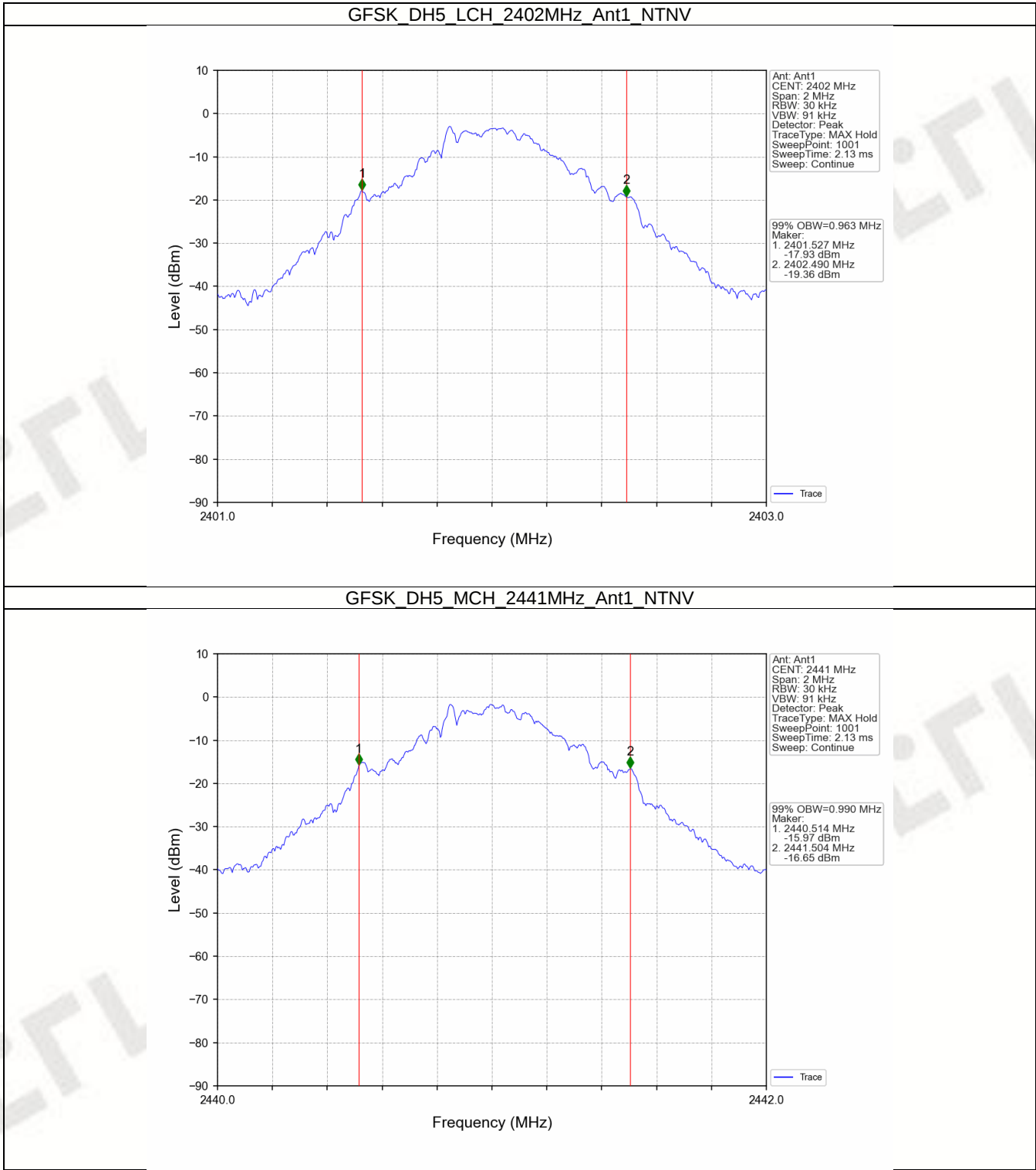
1.1 OBW

1.1.1 Test Result

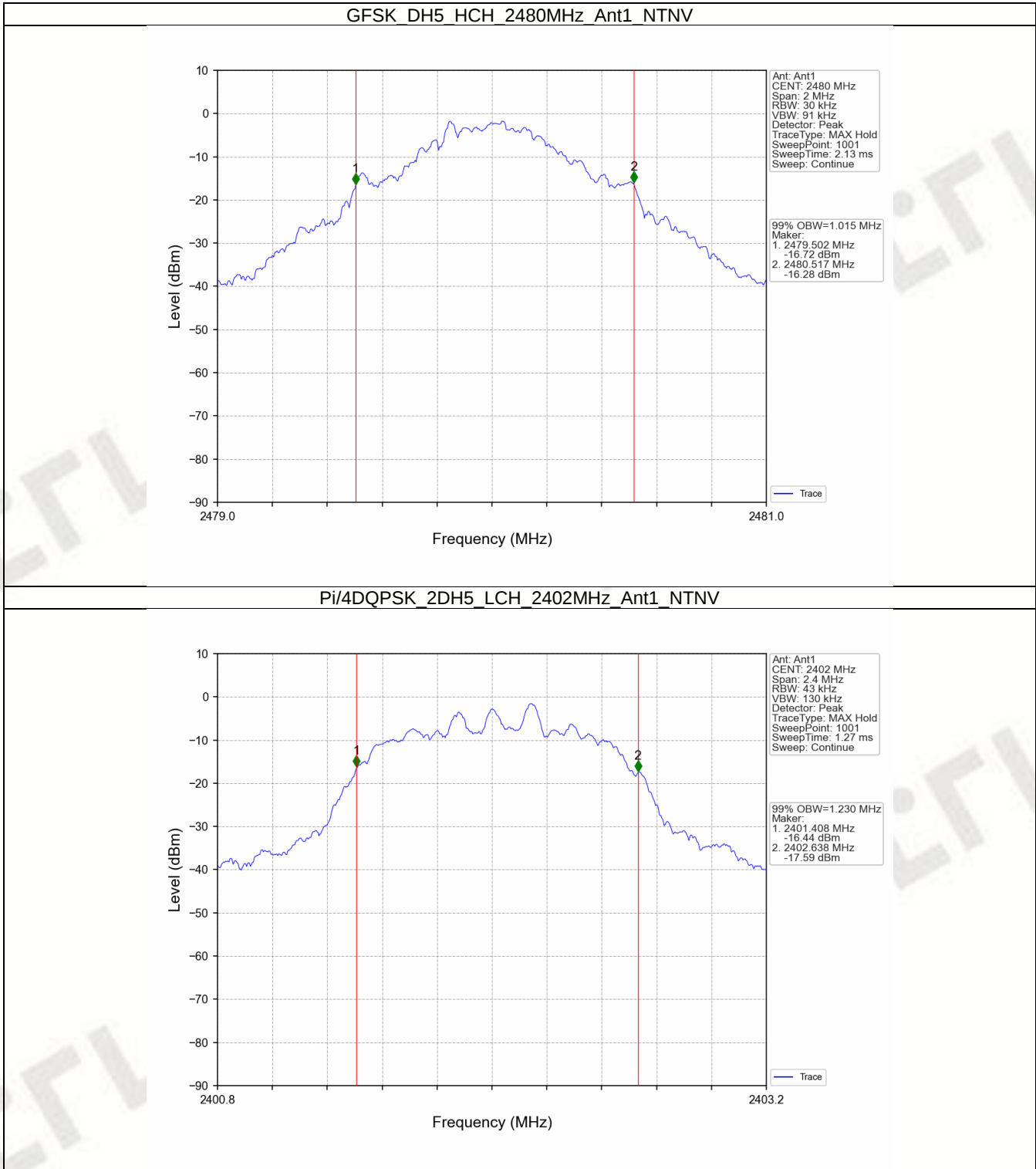
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.963	/	Pass
		2441	DH5	1	0.990	/	Pass
		2480	DH5	1	1.015	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.230	/	Pass
		2441	2DH5	1	1.264	/	Pass
		2480	2DH5	1	1.303	/	Pass
8DPSK	SISO	2402	3DH5	1	1.226	/	Pass
		2441	3DH5	1	1.246	/	Pass
		2480	3DH5	1	1.266	/	Pass

FCCID: 2BGKZ-DFBSK2882

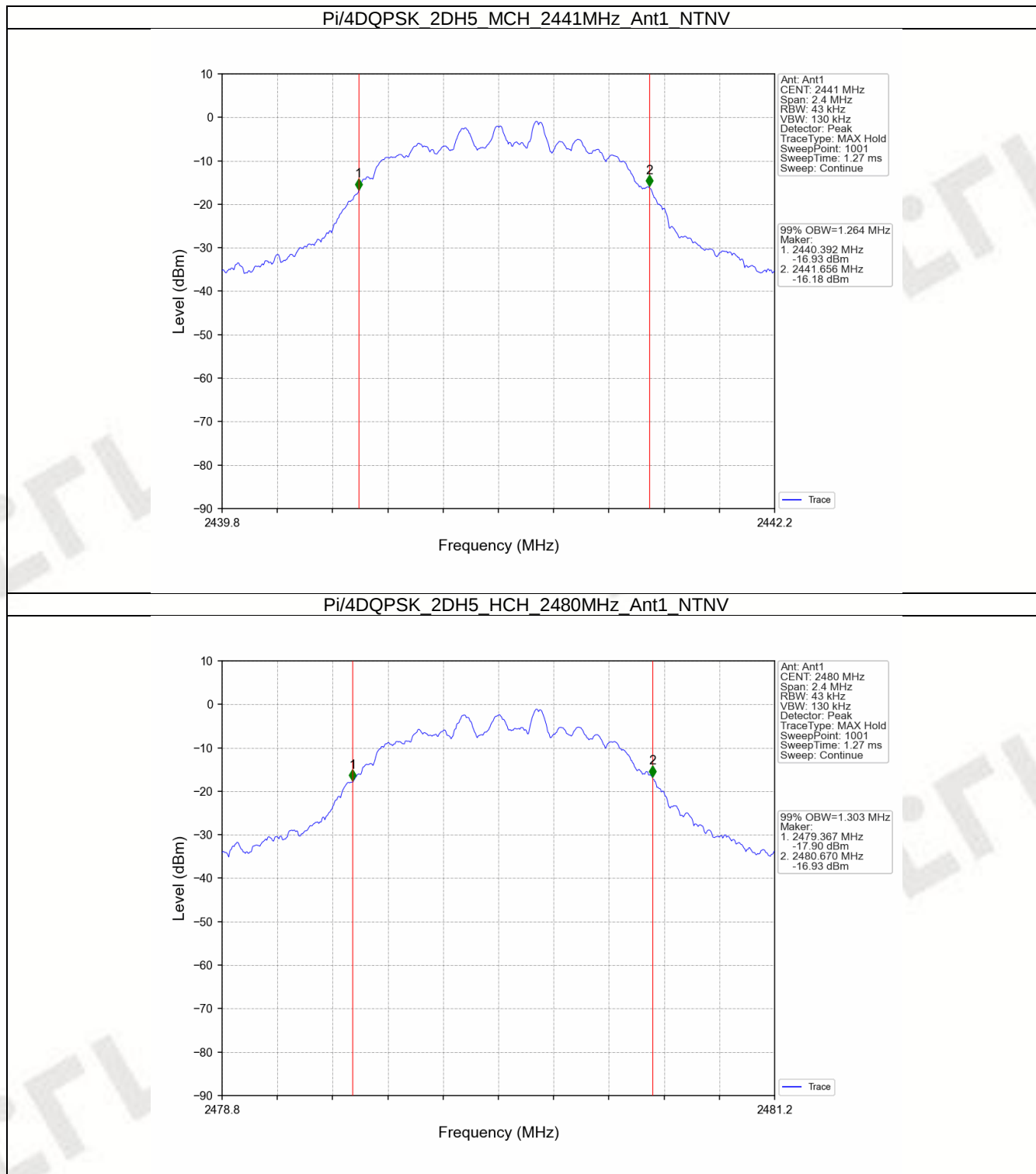
1.1.2 Test Graph



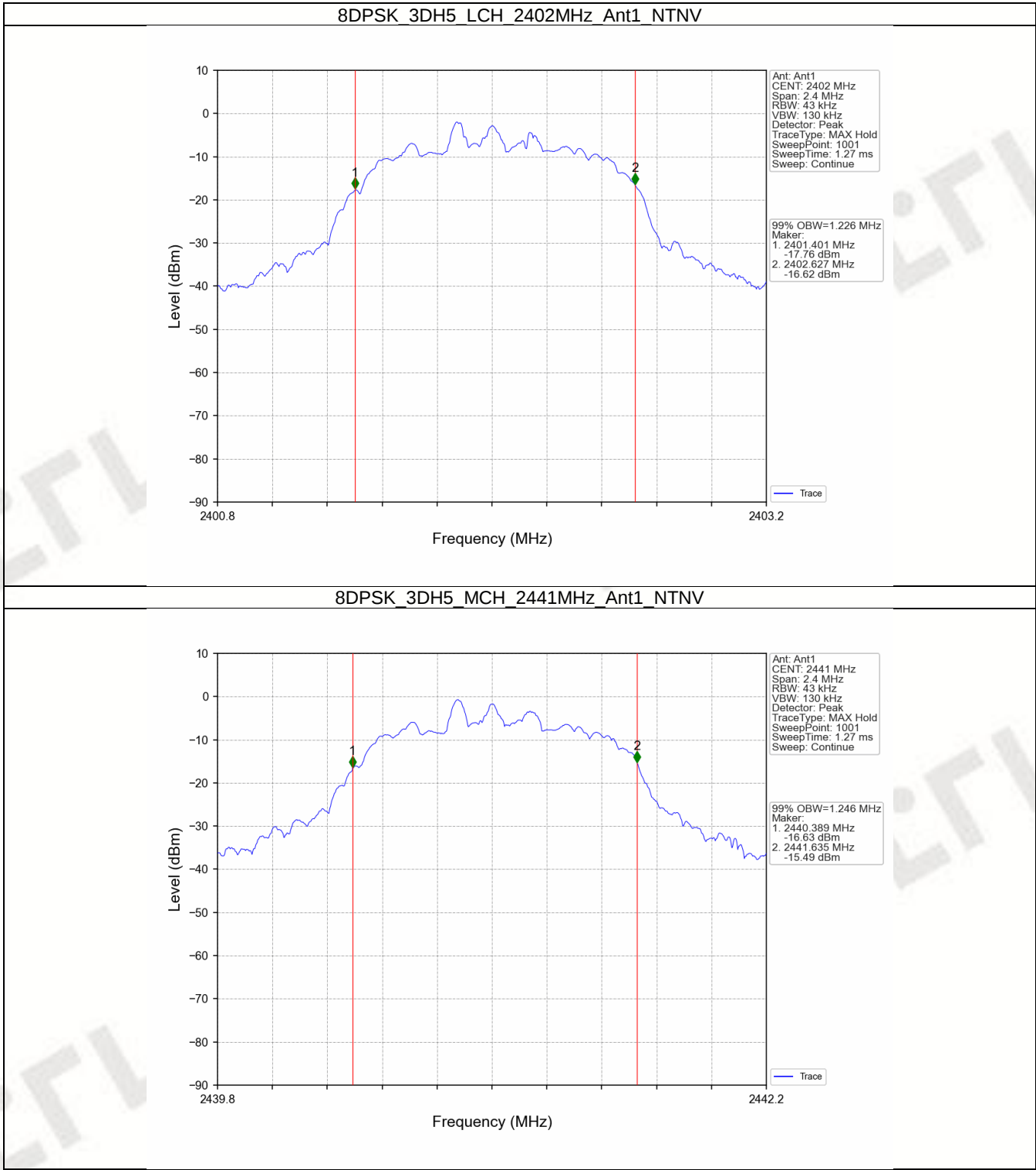
FCCID: 2BGKZ-DFBSK2882



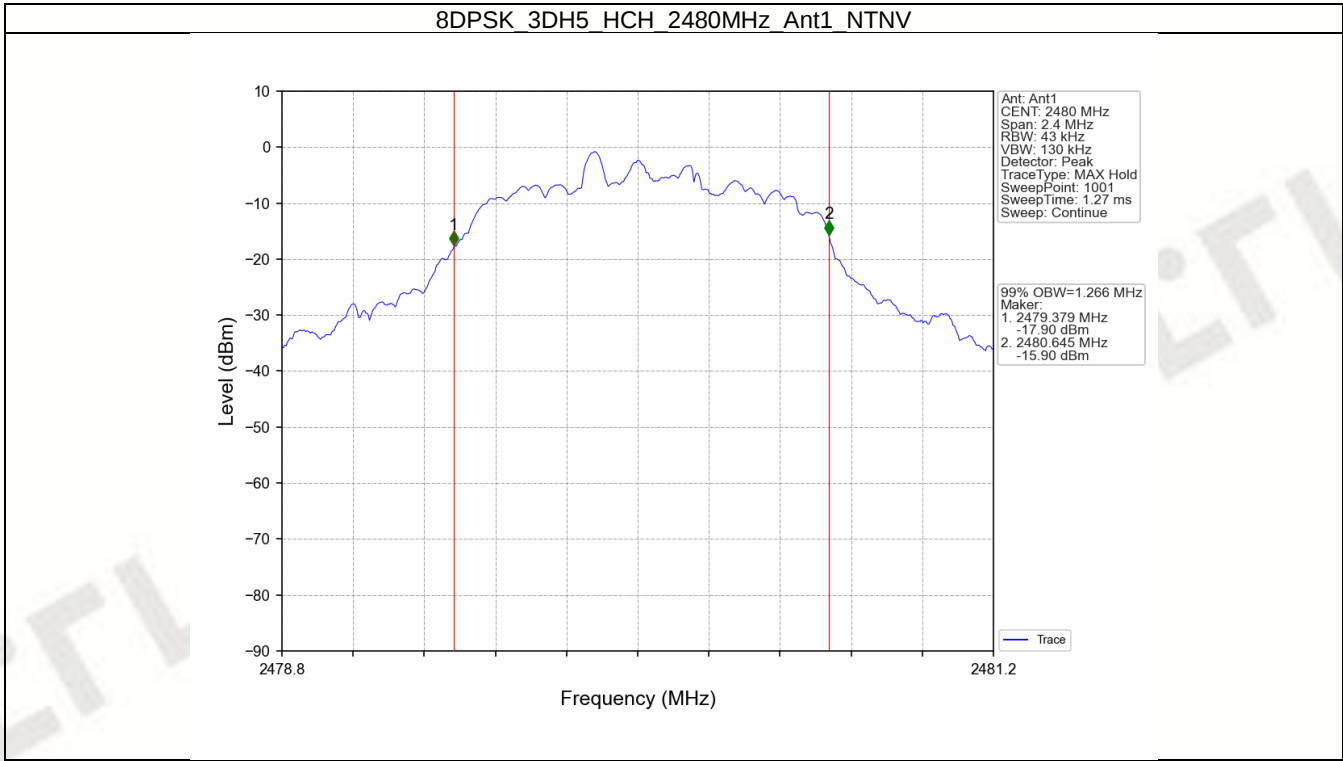
FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



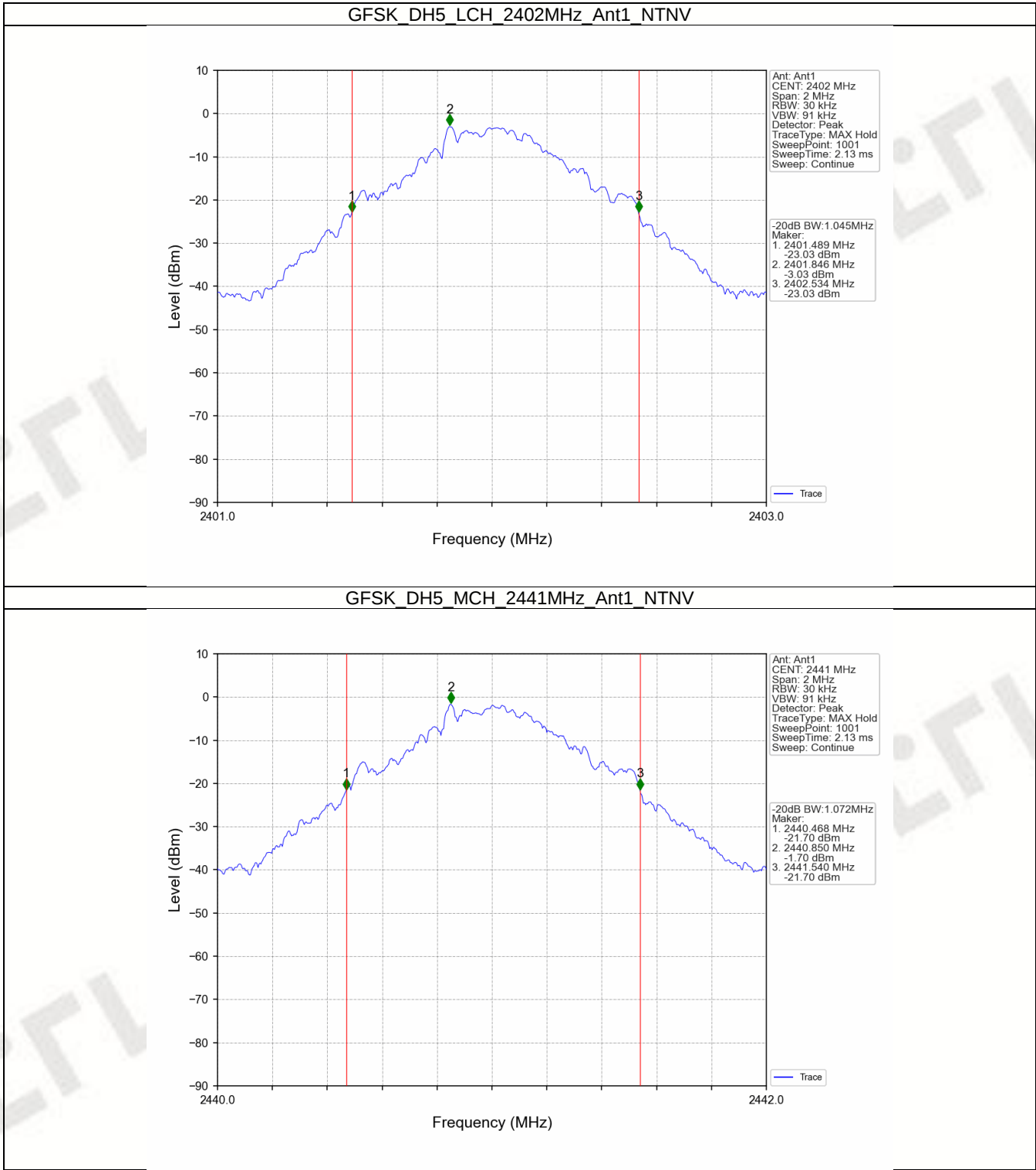
FCCID: 2BGKZ-DFBSK2882

1.2 20dB BW**1.2.1 Test Result**

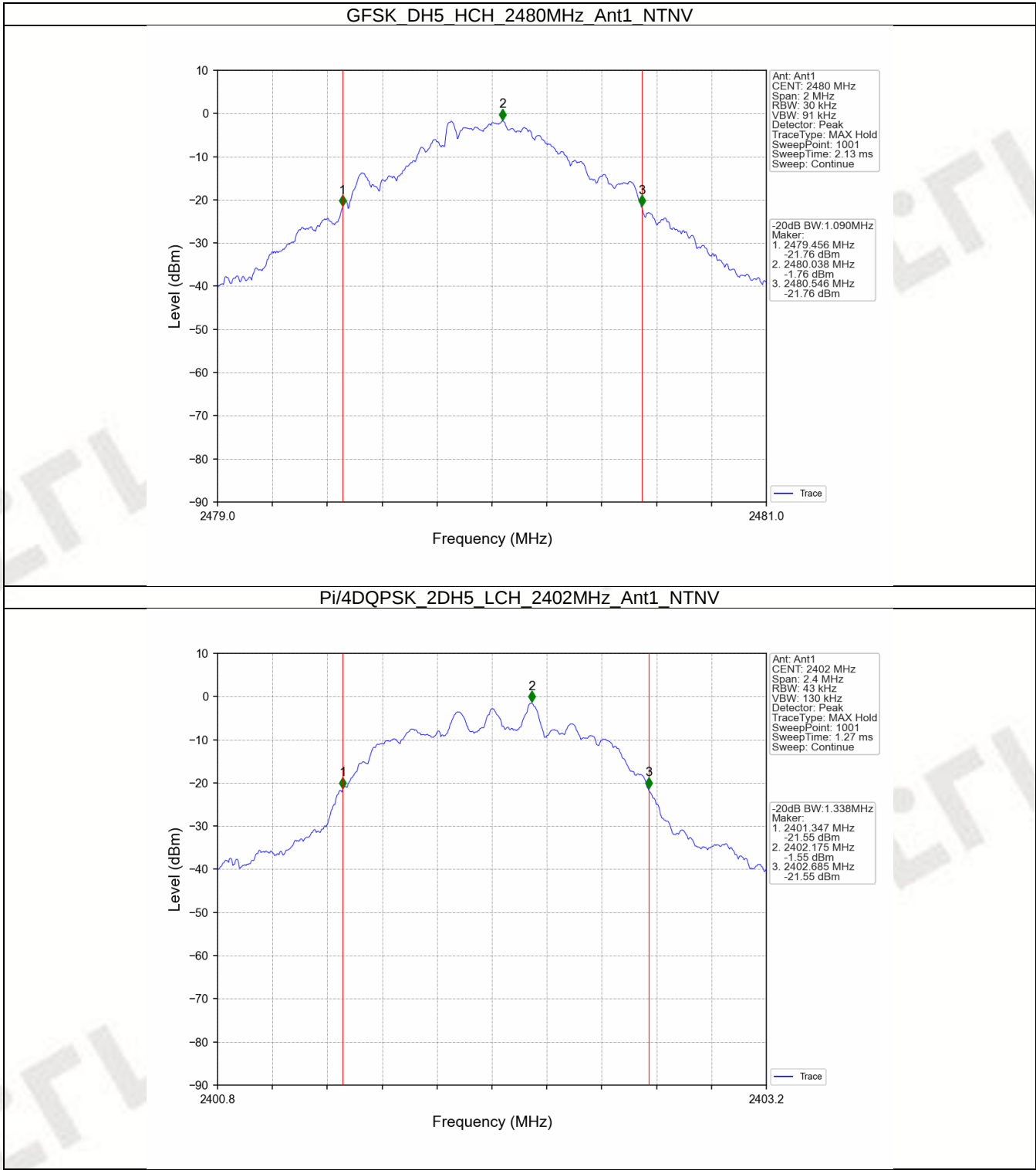
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.045	/	Pass
		2441	DH5	1	1.072	/	Pass
		2480	DH5	1	1.090	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.338	/	Pass
		2441	2DH5	1	1.381	/	Pass
		2480	2DH5	1	1.407	/	Pass
8DPSK	SISO	2402	3DH5	1	1.322	/	Pass
		2441	3DH5	1	1.350	/	Pass
		2480	3DH5	1	1.359	/	Pass

FCCID: 2BGKZ-DFBSK2882

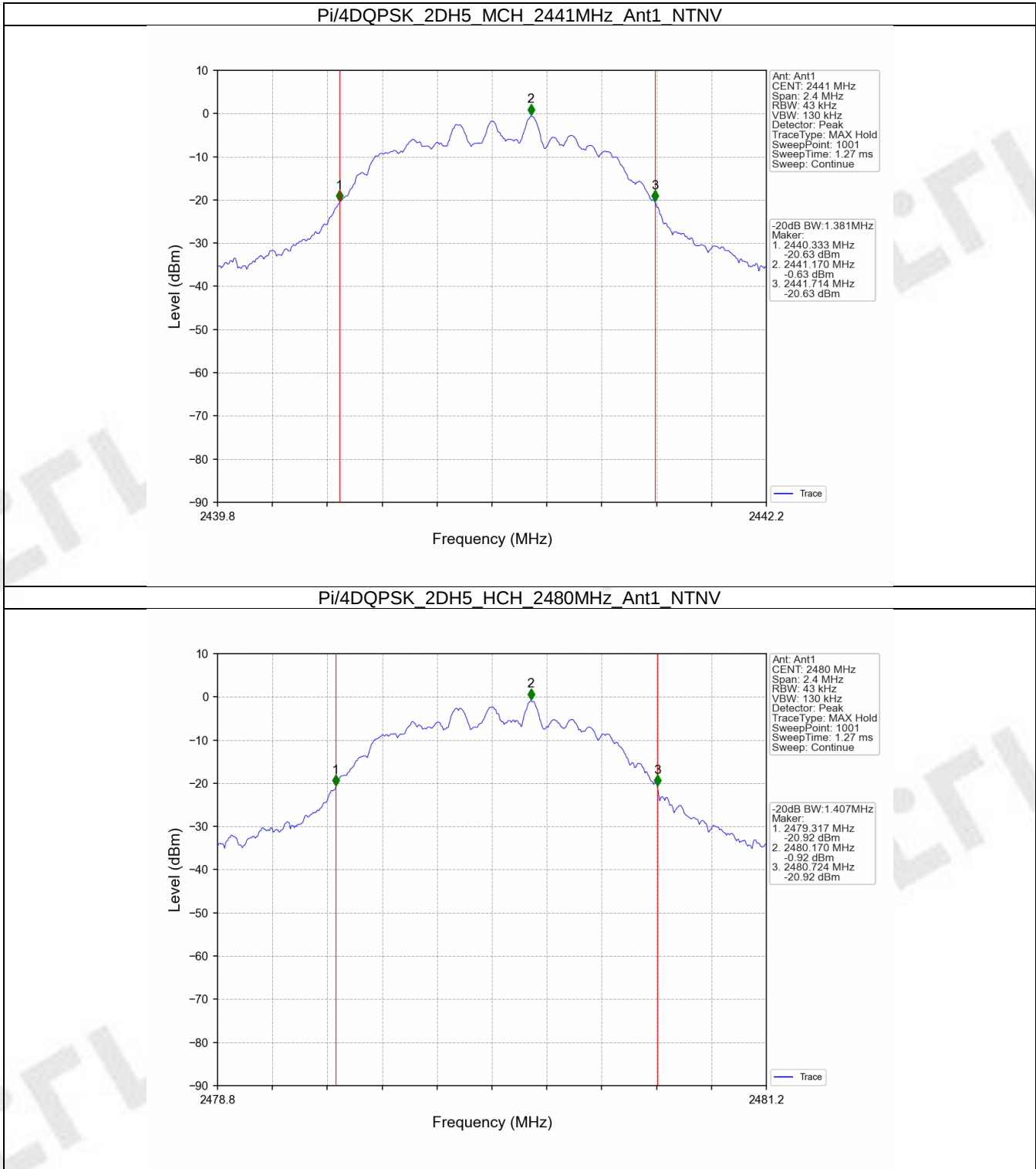
1.2.2 Test Graph



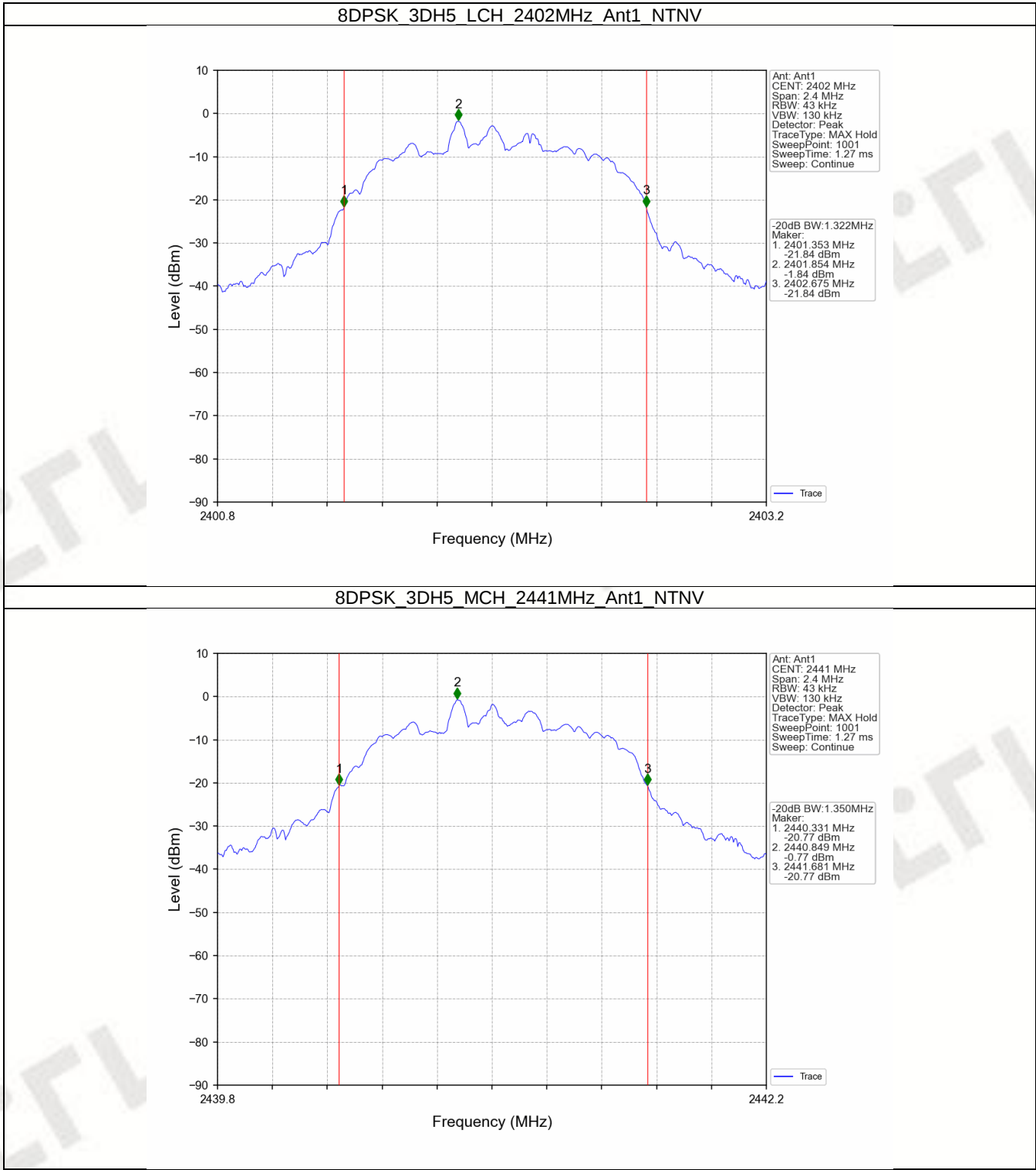
FCCID: 2BGKZ-DFBSK2882



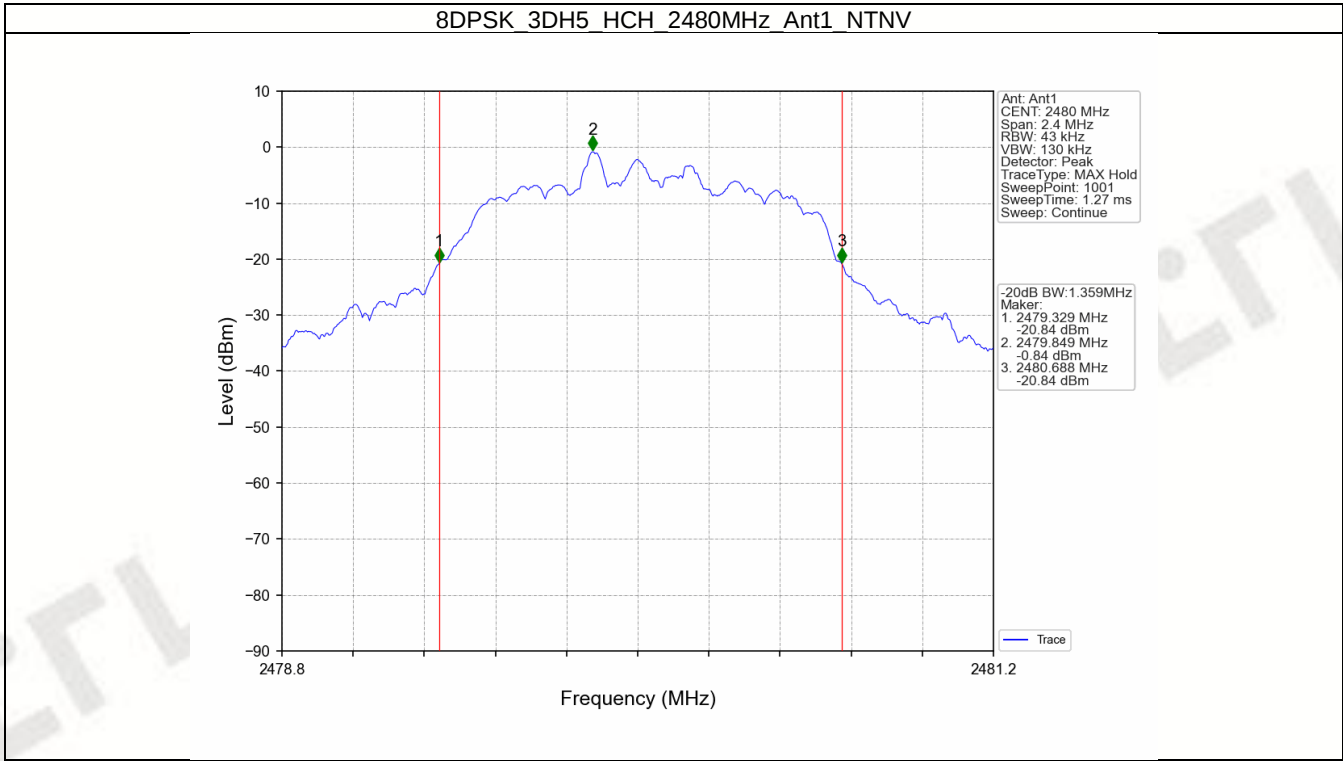
FCCID: 2BGKZ-DFBSK2882



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FCCID: 2BGKZ-DFBSK2882

2. Maximum Conducted Output Power

2.1 Power

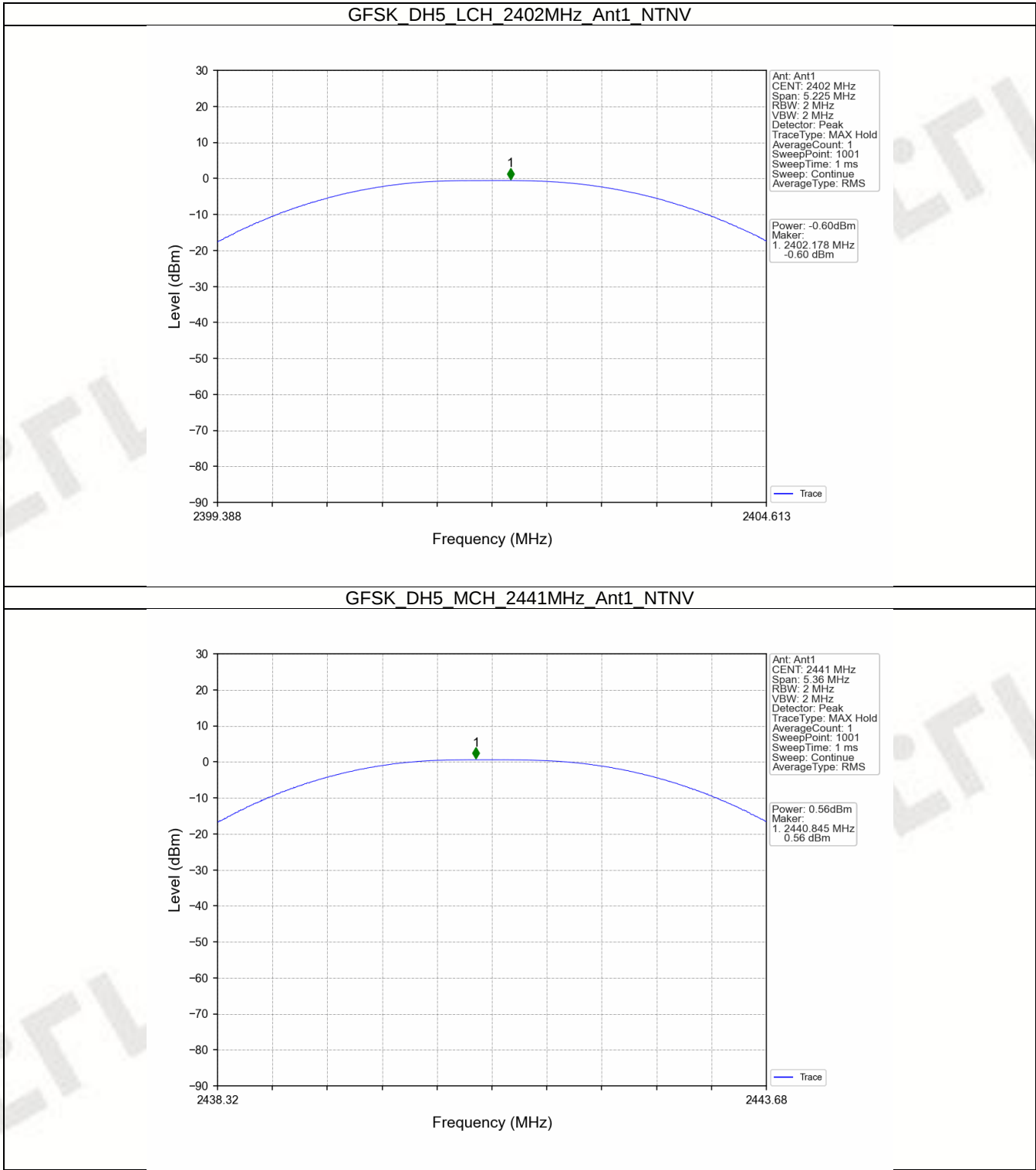
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.60	≤ 20.97	Pass
		2441	DH5	0.56	≤ 20.97	Pass
		2480	DH5	0.66	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	0.20	≤ 20.97	Pass
		2441	2DH5	1.27	≤ 20.97	Pass
		2480	2DH5	1.33	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	0.49	≤ 20.97	Pass
		2441	3DH5	1.57	≤ 20.97	Pass
		2480	3DH5	1.62	≤ 20.97	Pass

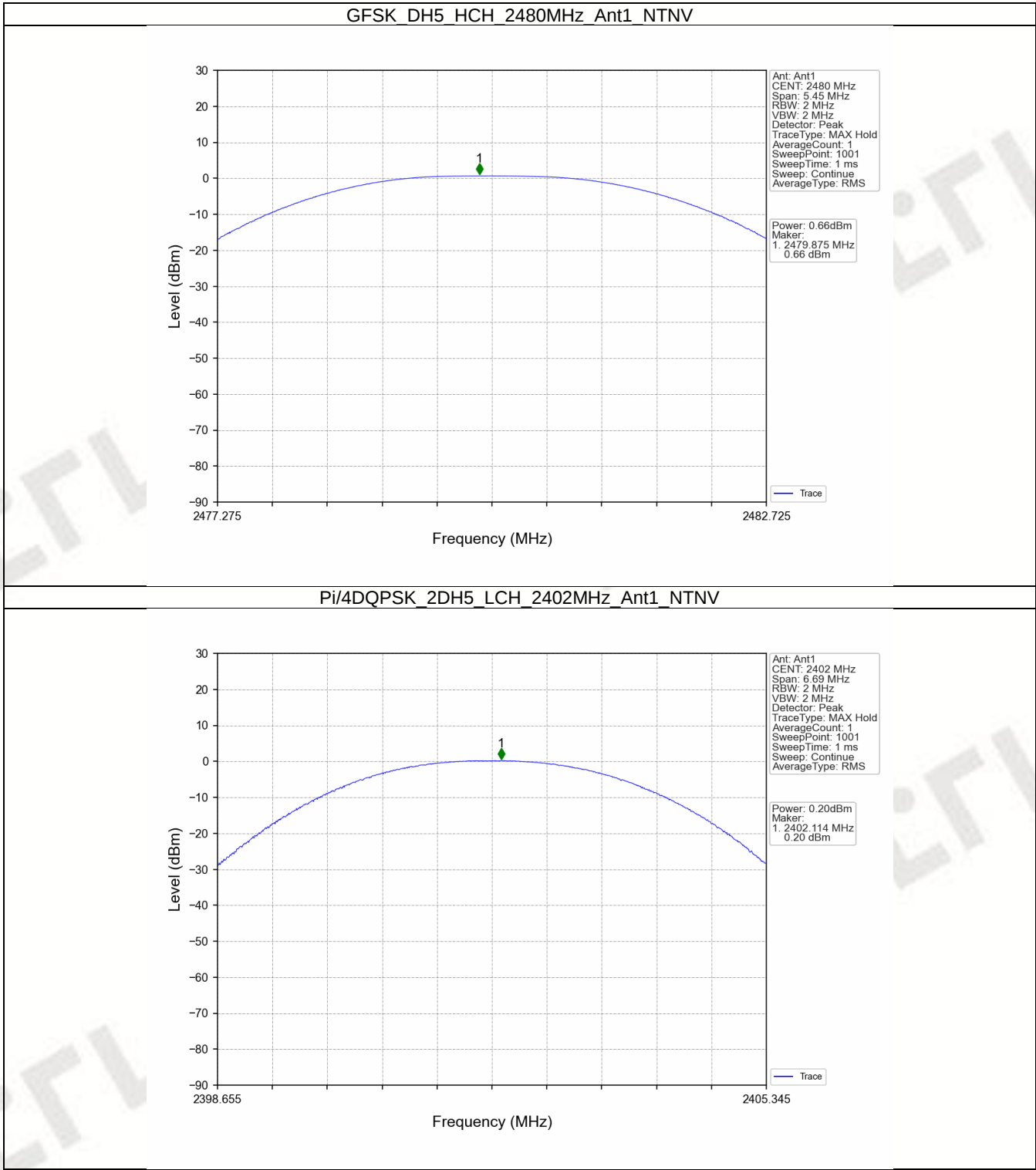
Note1: Antenna Gain: Ant1: 0.00dBi;

FCCID: 2BGKZ-DFBSK2882

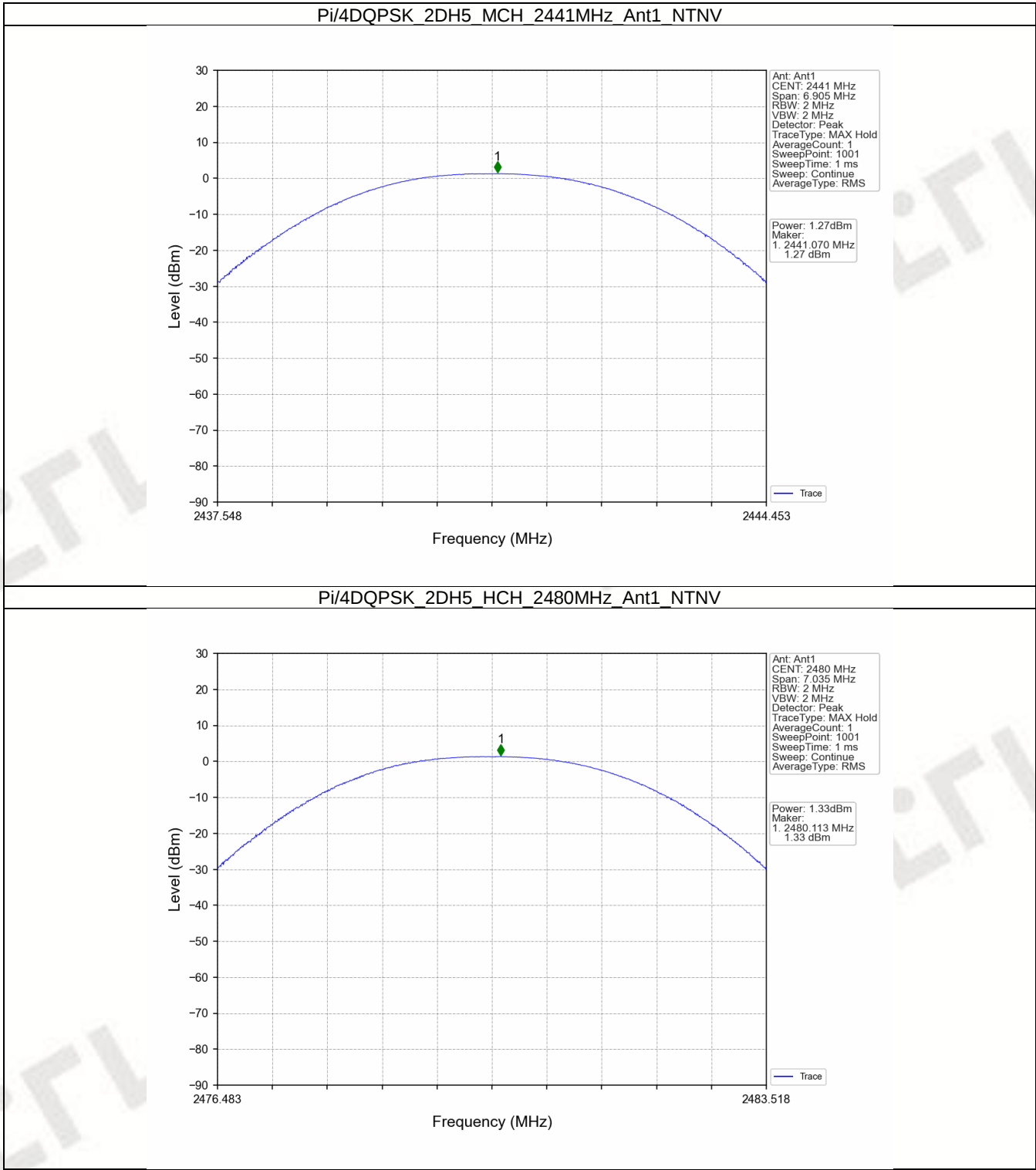
2.1.2 Test Graph



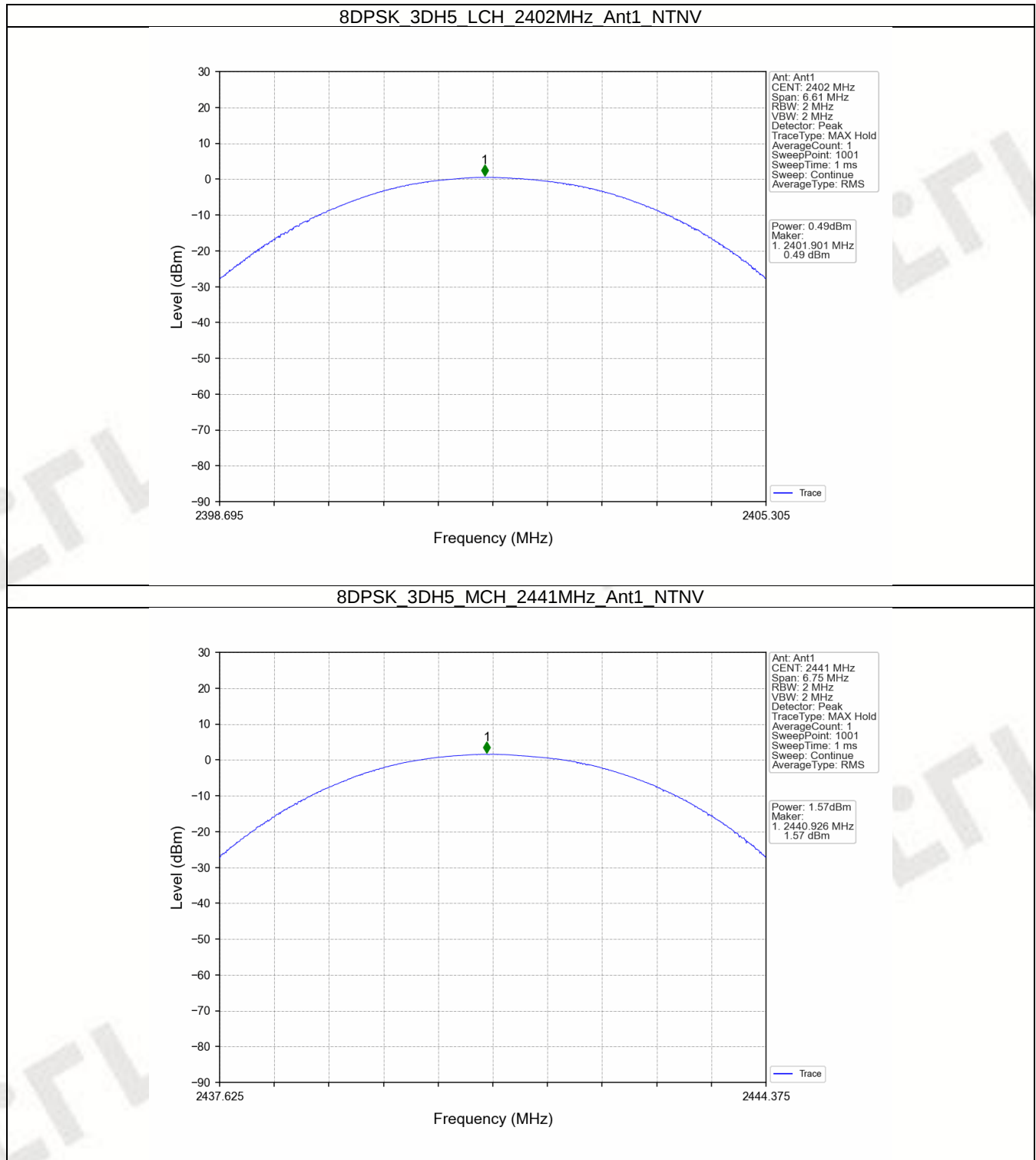
FCCID: 2BGKZ-DFBSK2882



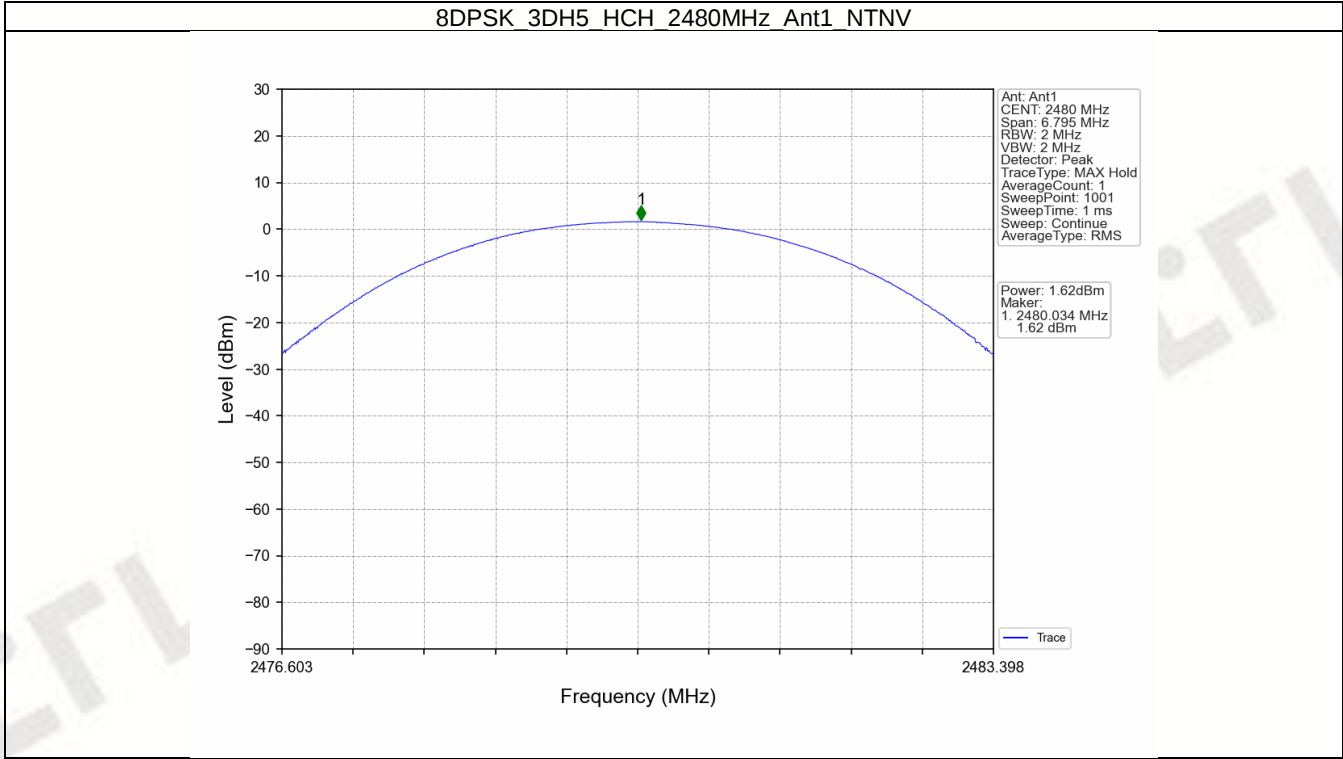
FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882

3. Carrier Frequency Separation

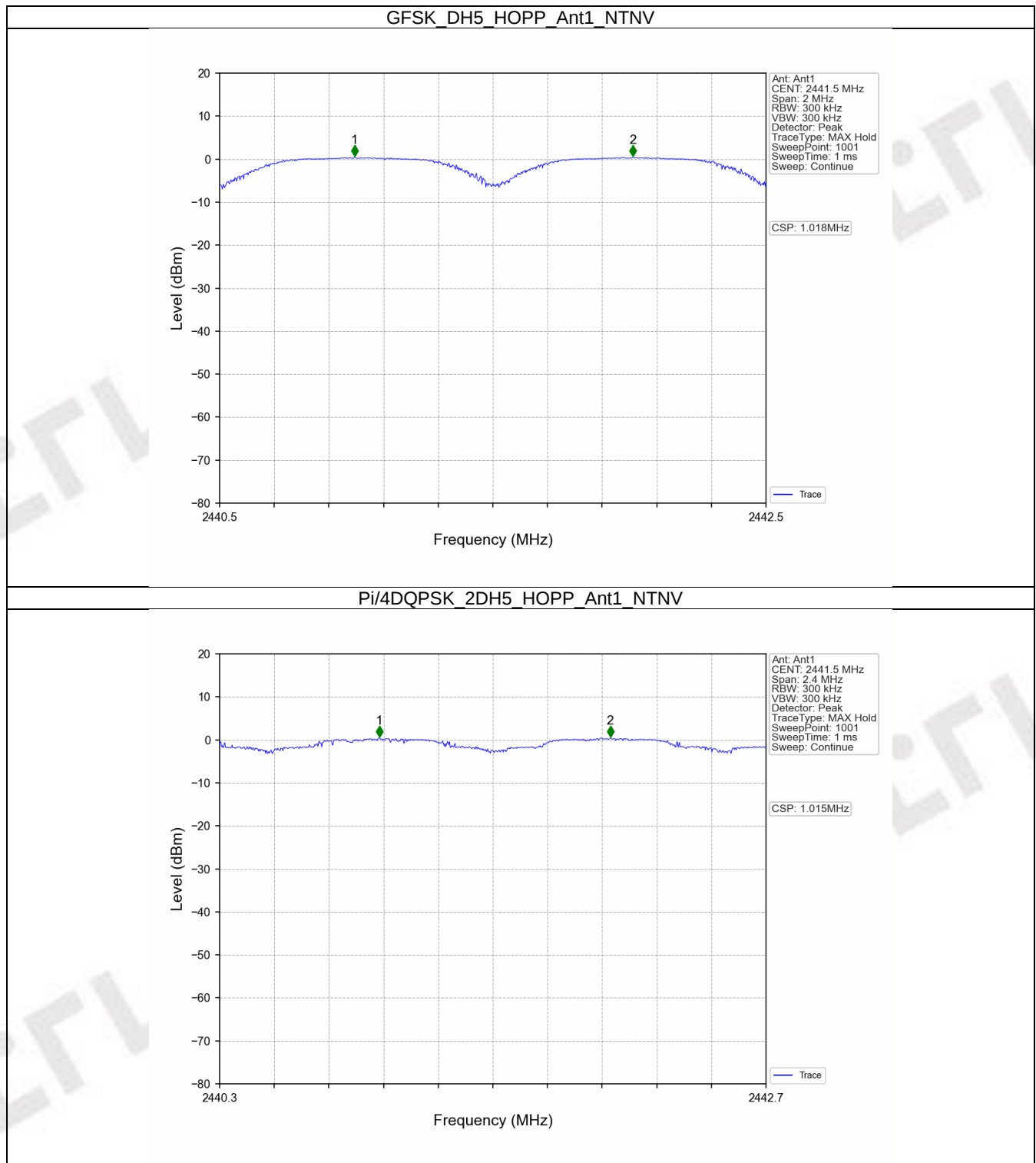
3.1 Ant1

3.1.1 Test Result

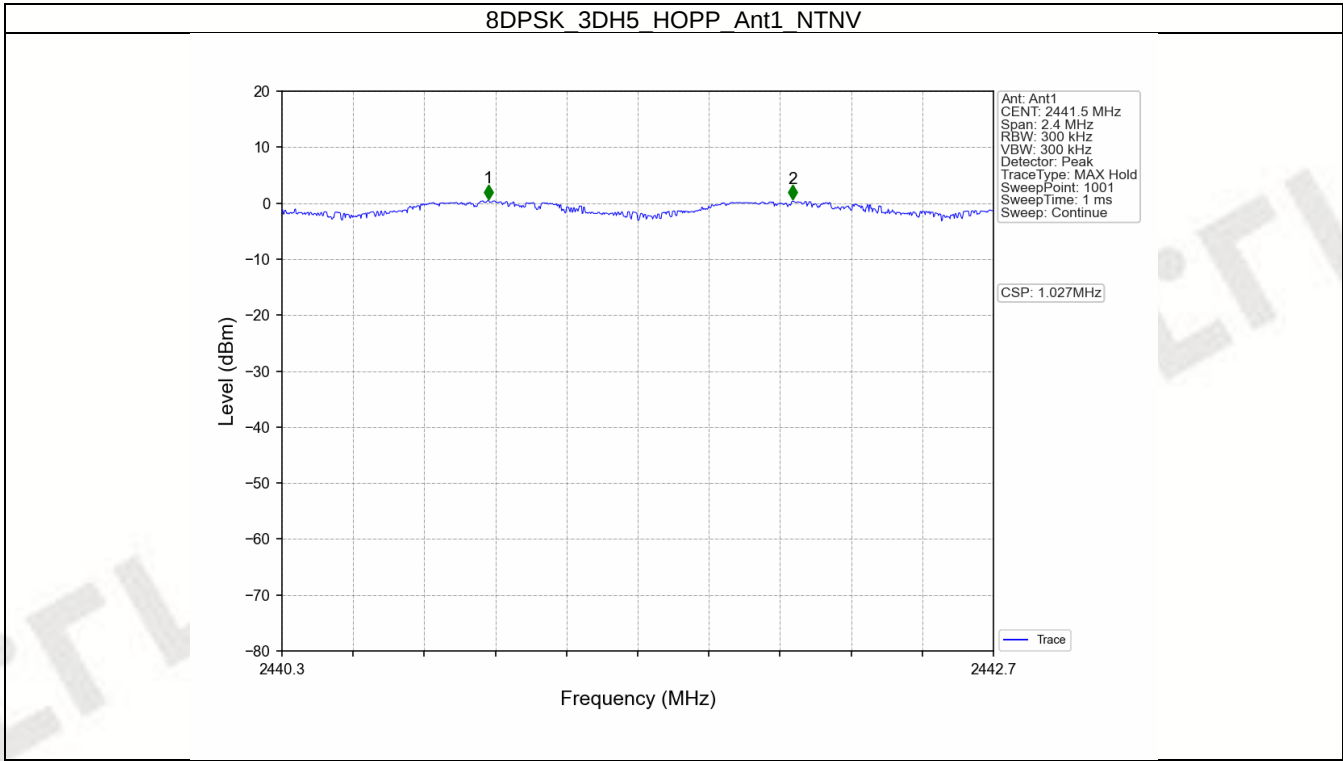
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.018	1.090	≥ 0.727	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.015	1.407	≥ 0.938	Pass
8DPSK	SISO	HOPP	3DH5	1.027	1.359	≥ 0.906	Pass

FCCID: 2BGKZ-DFBSK2882

3.1.2 Test Graph



FCCID: 2BGKZ-DFBSK2882



4. Number of Hopping Frequencies

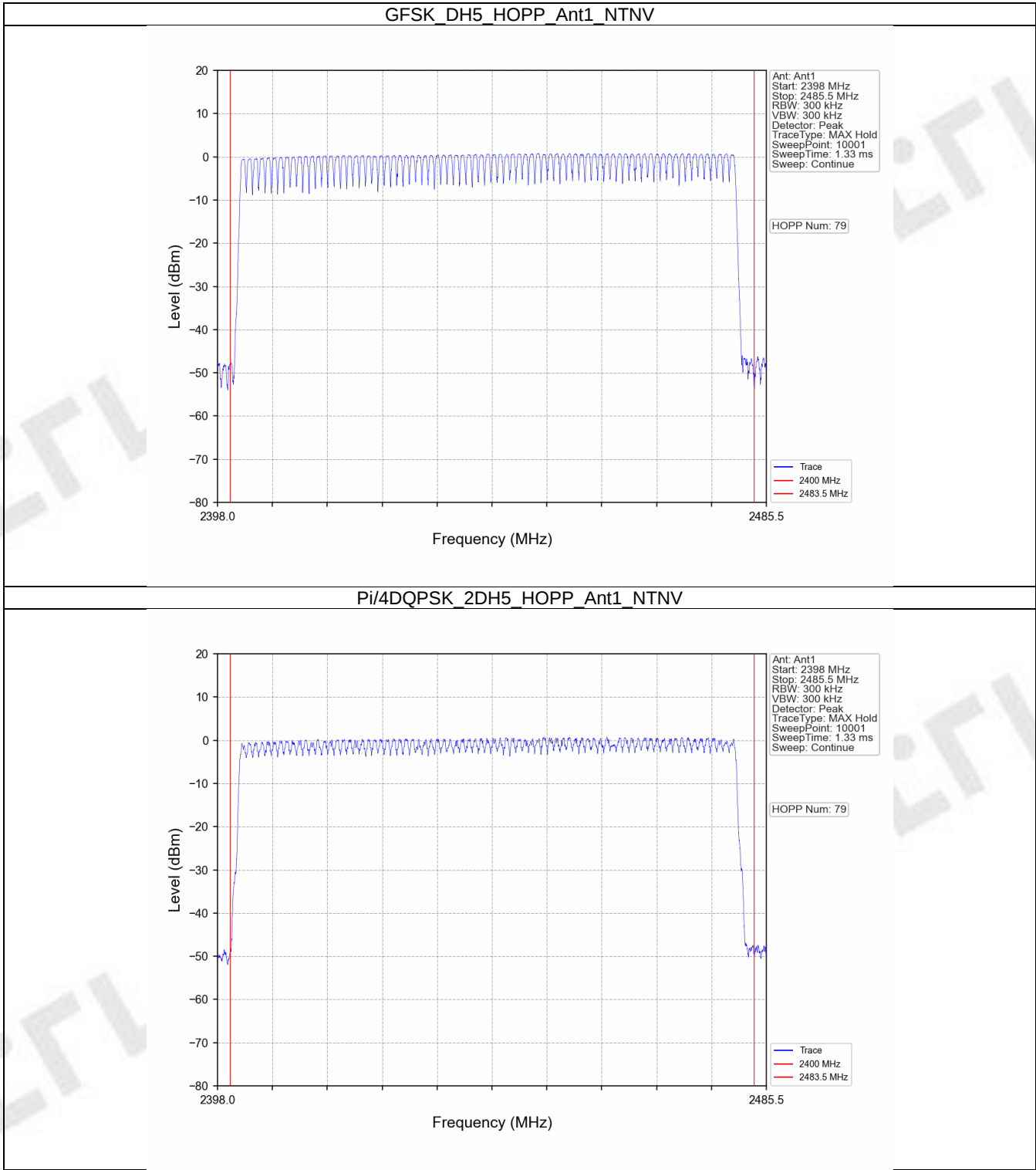
4.1 HoppNum

4.1.1 Test Result

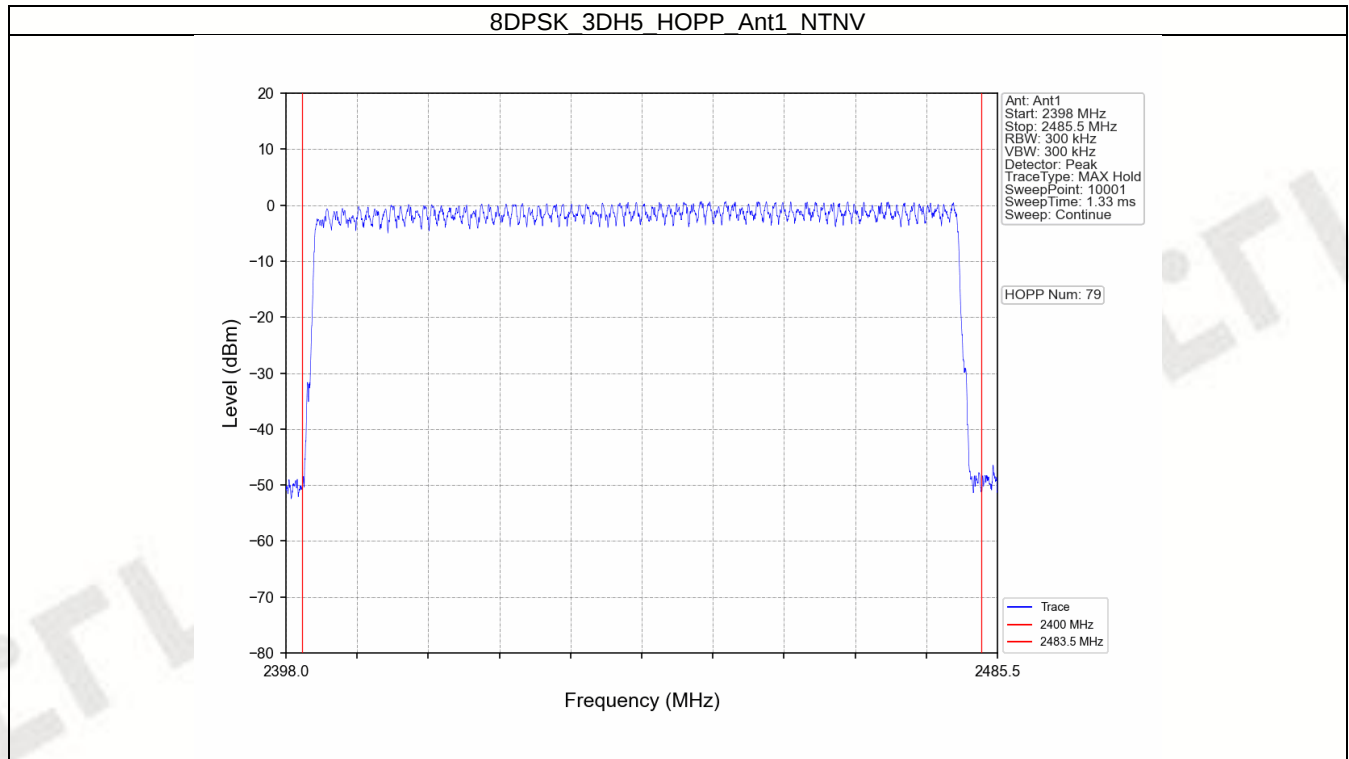
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

FCCID: 2BGKZ-DFBSK2882

4.1.2 Test Graph



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882

5. Time of Occupancy (Dwell Time)

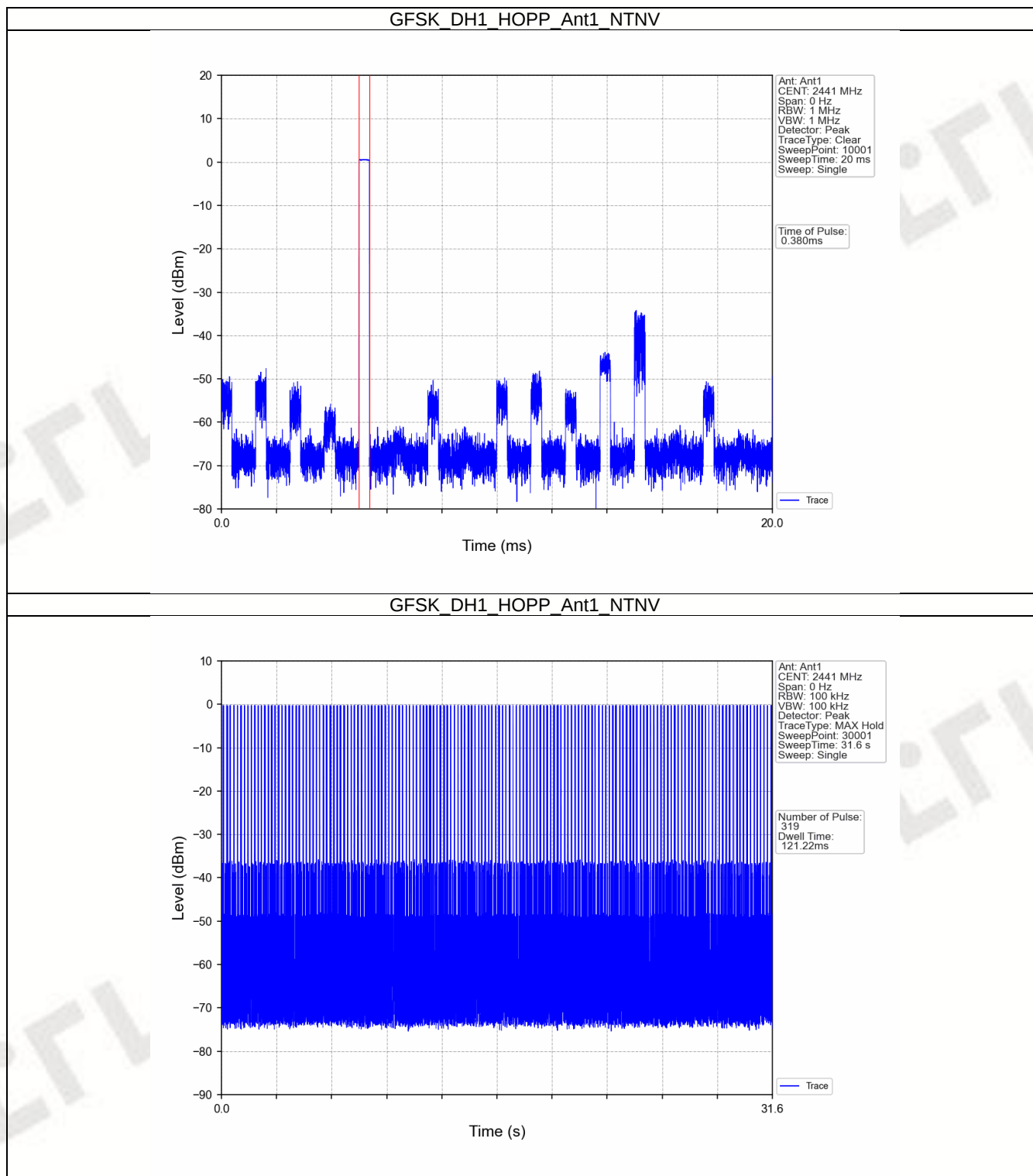
5.1 Ant1

5.1.1 Test Result

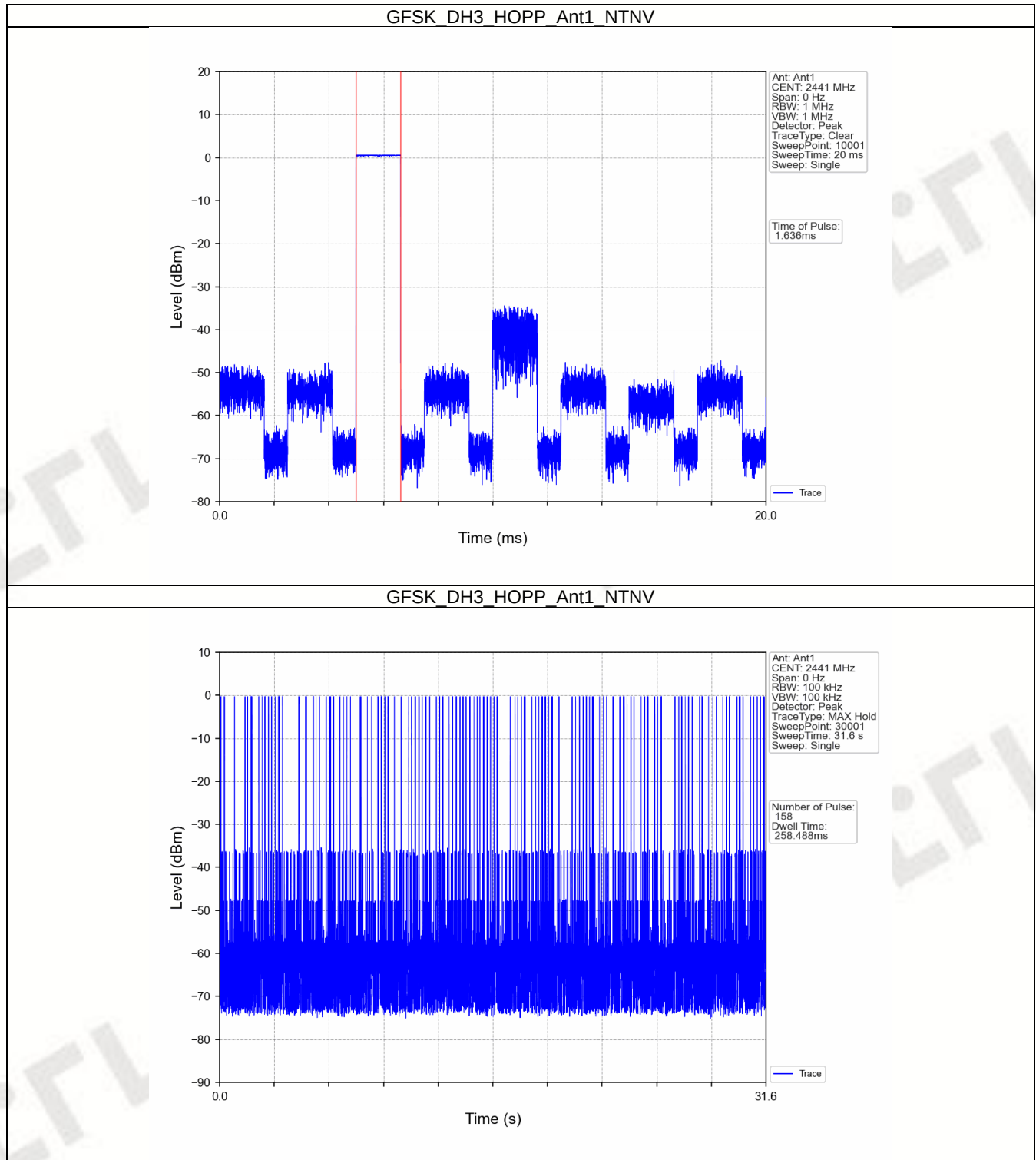
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.380	31.600	319	121.220	<=400	Pass
			DH3	1.636	31.600	158	258.488	<=400	Pass
			DH5	2.884	31.600	100	288.400	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	315	122.850	<=400	Pass
			2DH3	1.644	31.600	157	258.108	<=400	Pass
			2DH5	2.898	31.600	100	289.800	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	319	124.410	<=400	Pass
			3DH3	1.648	31.600	157	258.736	<=400	Pass
			3DH5	2.898	31.600	116	336.168	<=400	Pass

FCCID: 2BGKZ-DFBSK2882

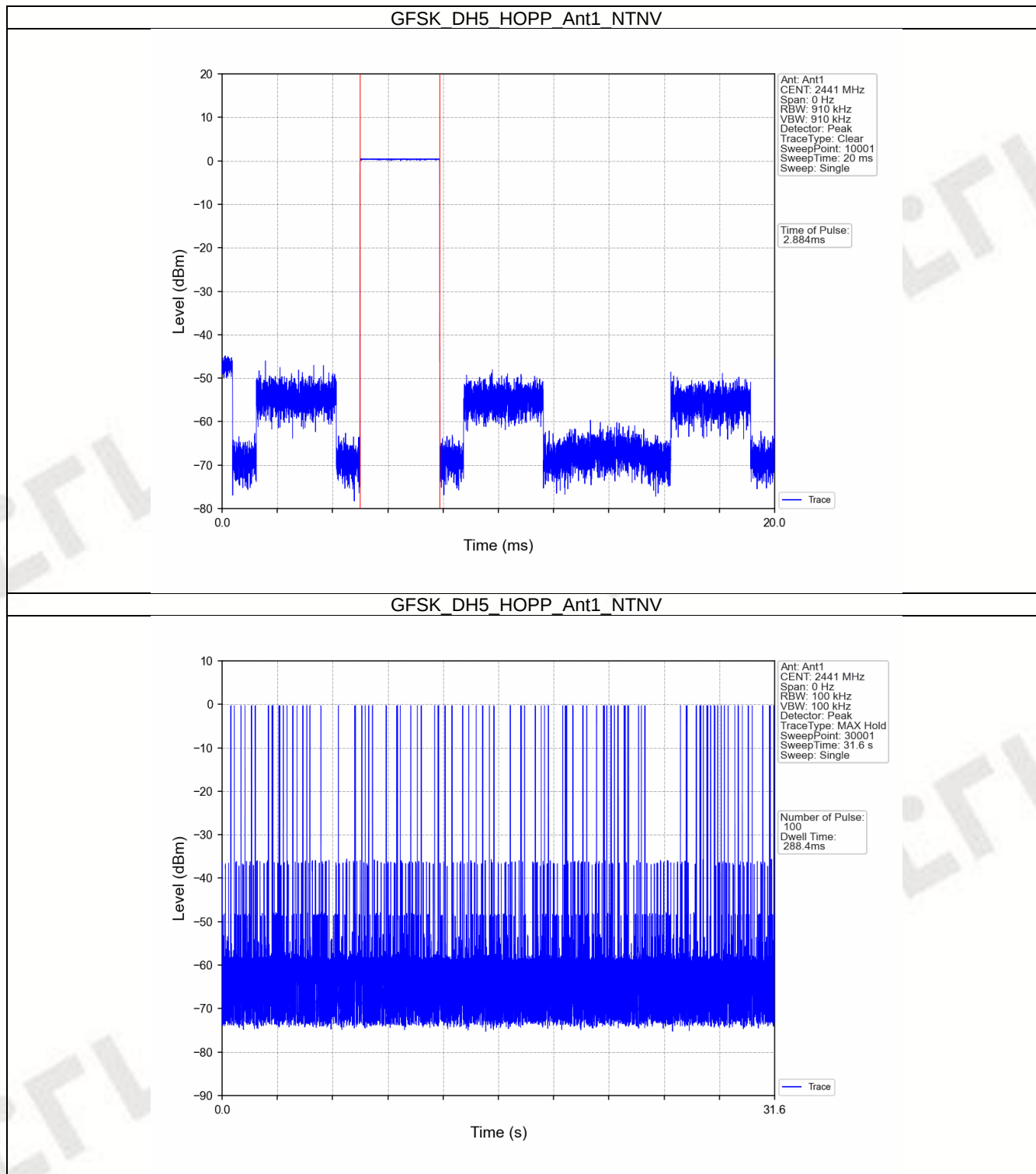
5.1.2 Test Graph



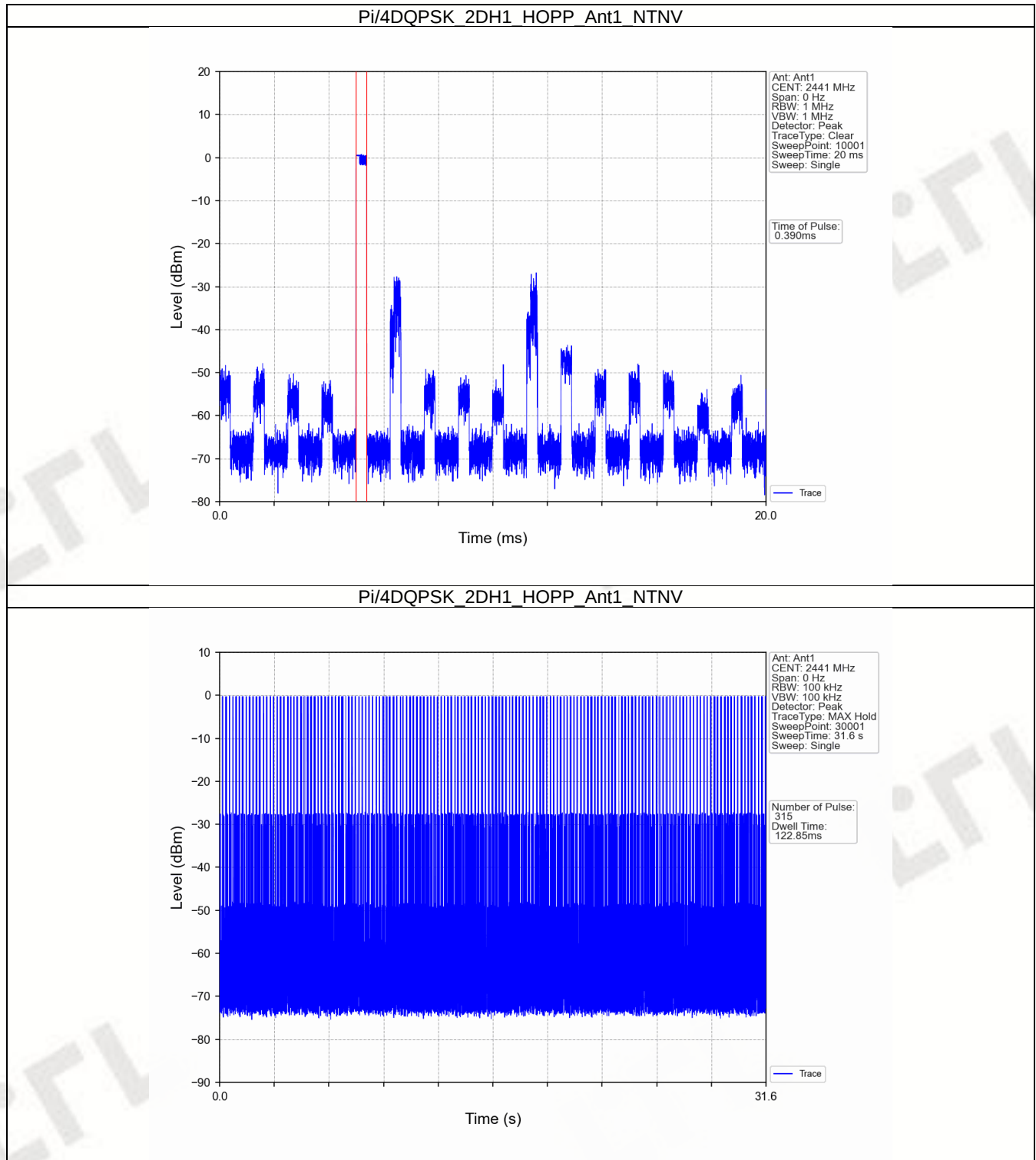
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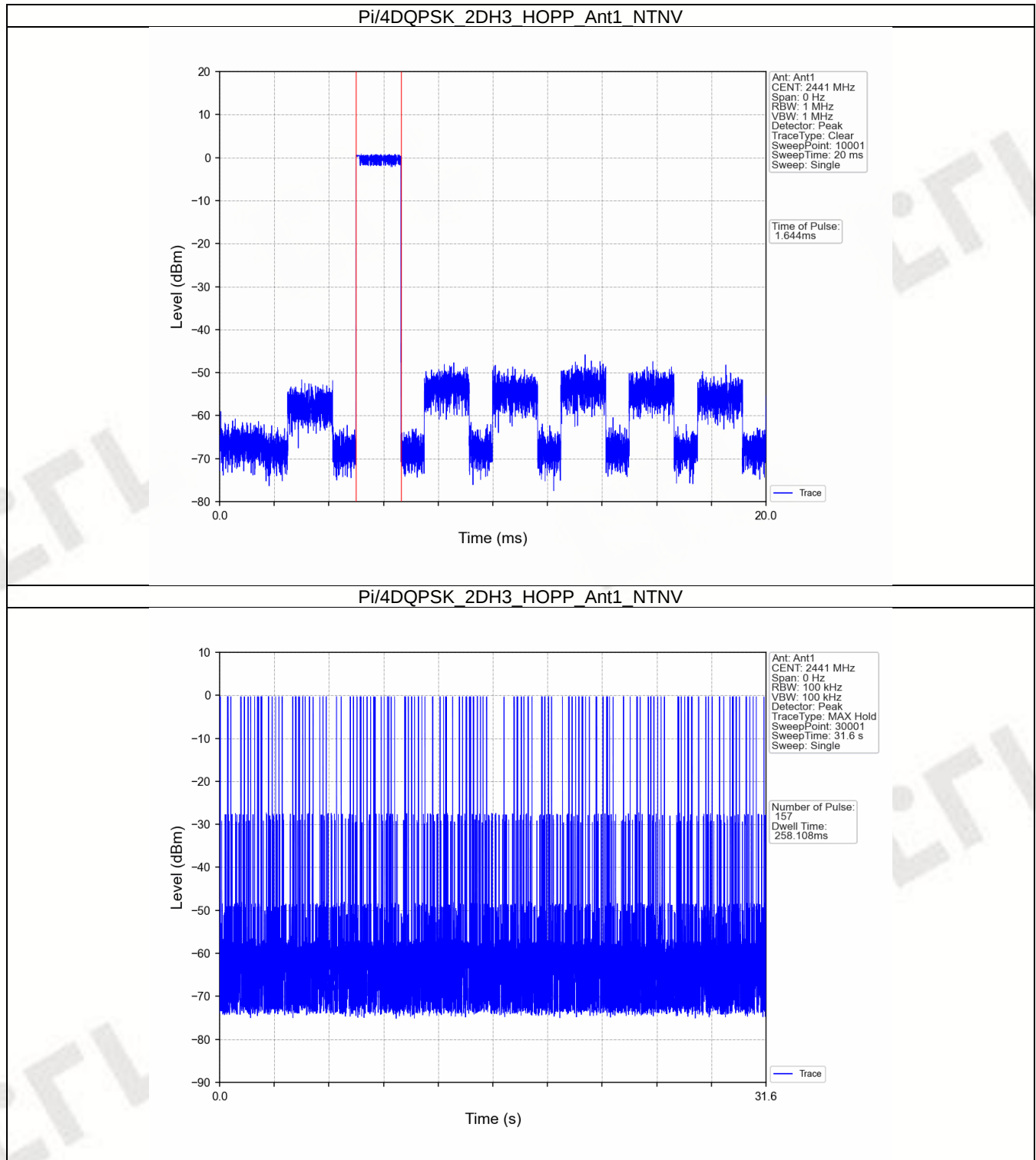
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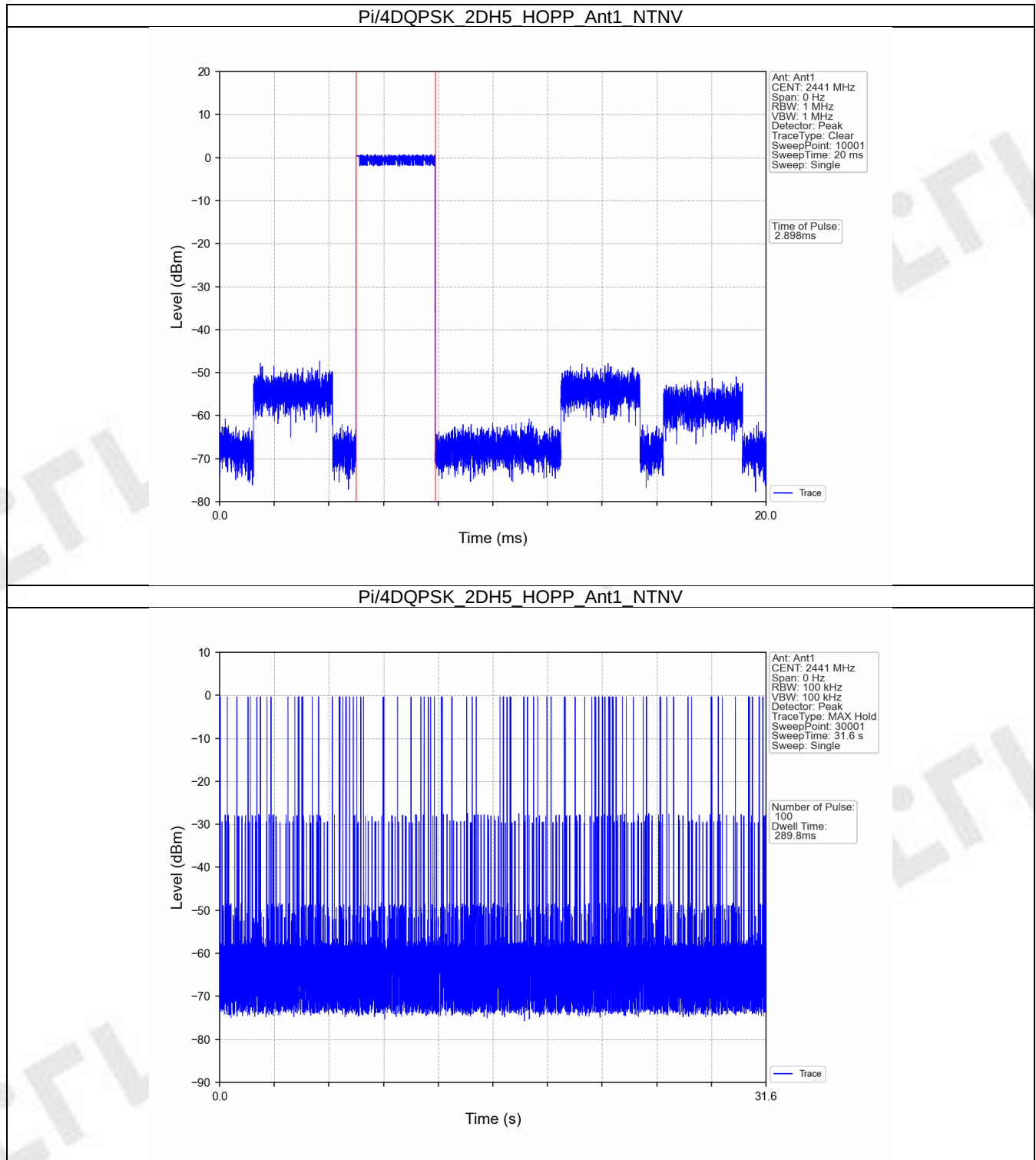
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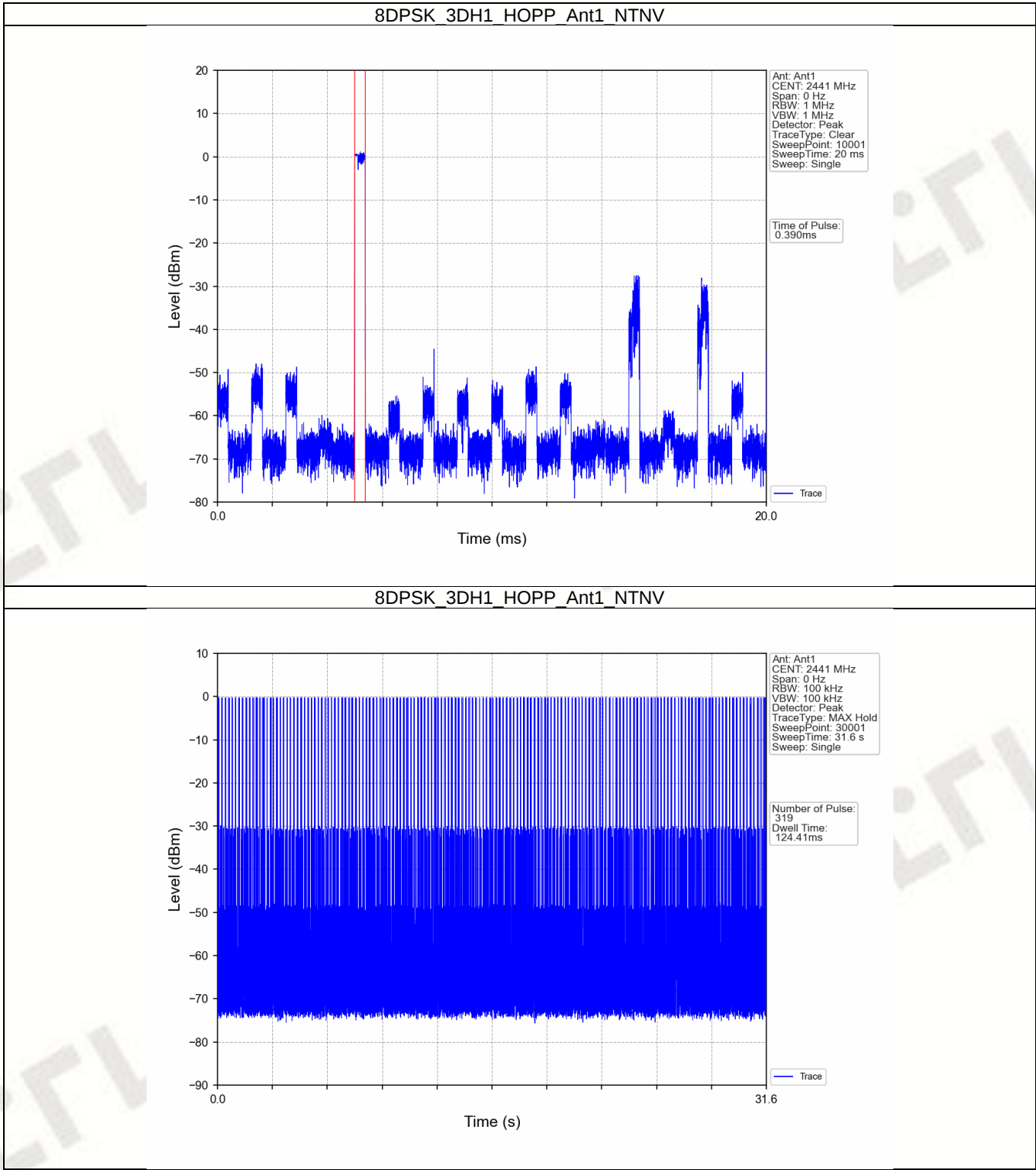
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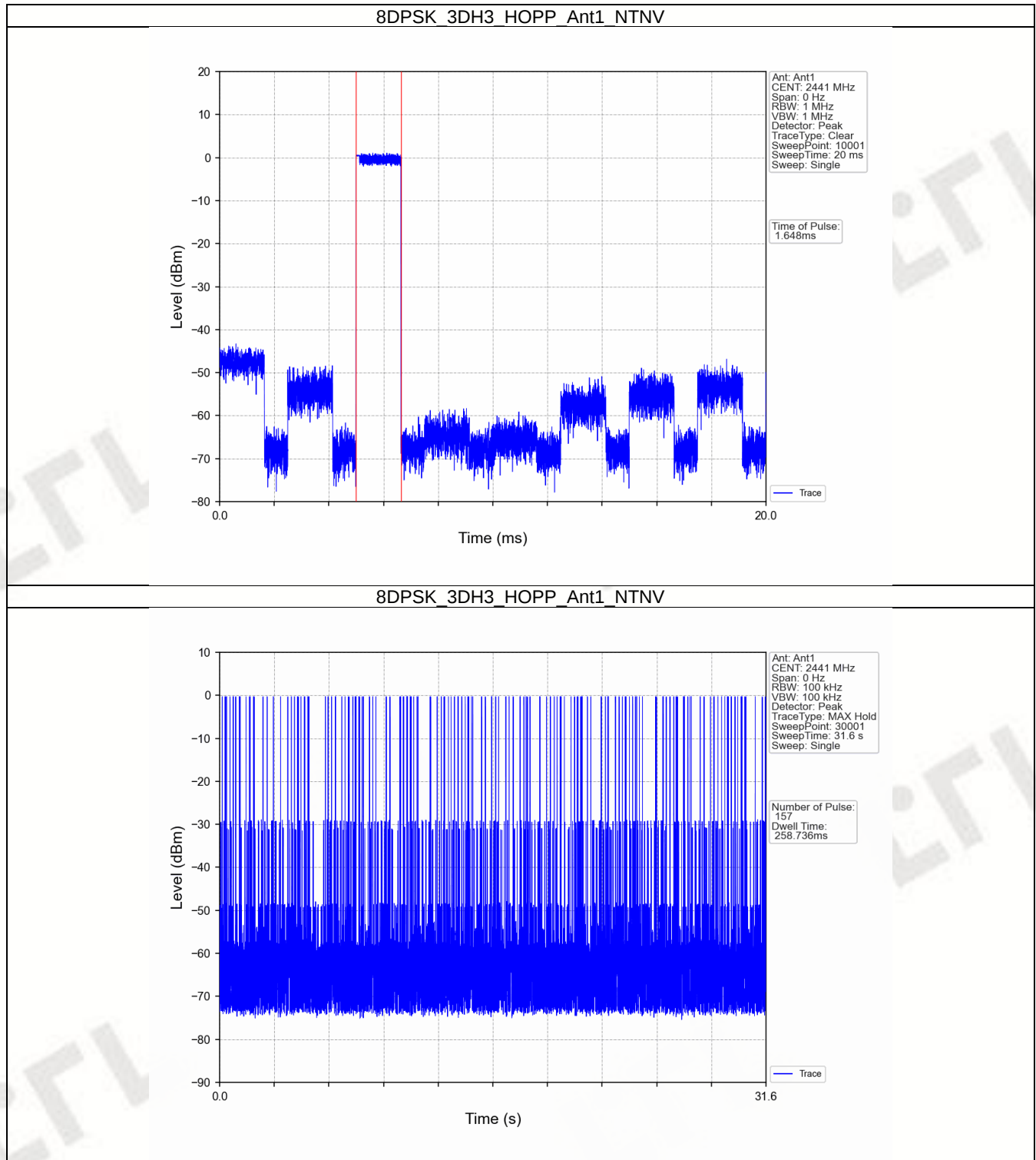
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FCCID: 2BGKZ-DFBSK2882

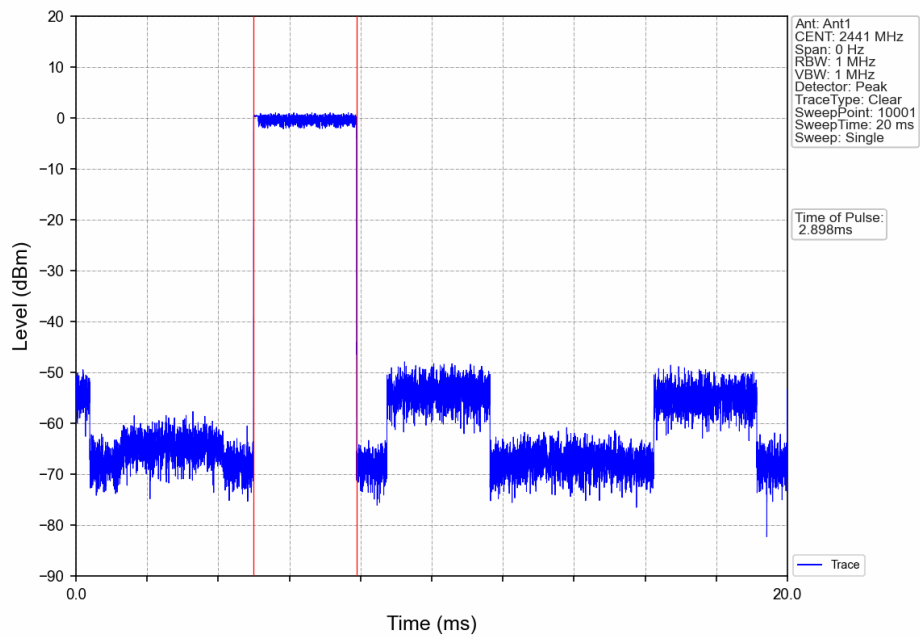


FCCID: 2BGKZ-DFBSK2882

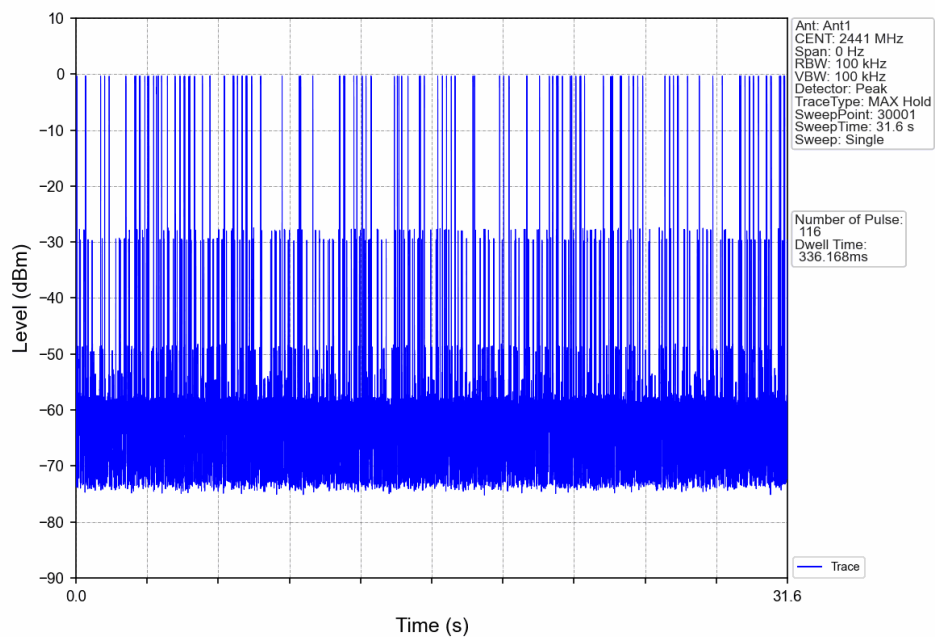


FCCID: 2BGKZ-DFBSK2882

8DPSK 3DH5 HOPP Ant1 NTV



8DPSK 3DH5 HOPP Ant1 NTV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

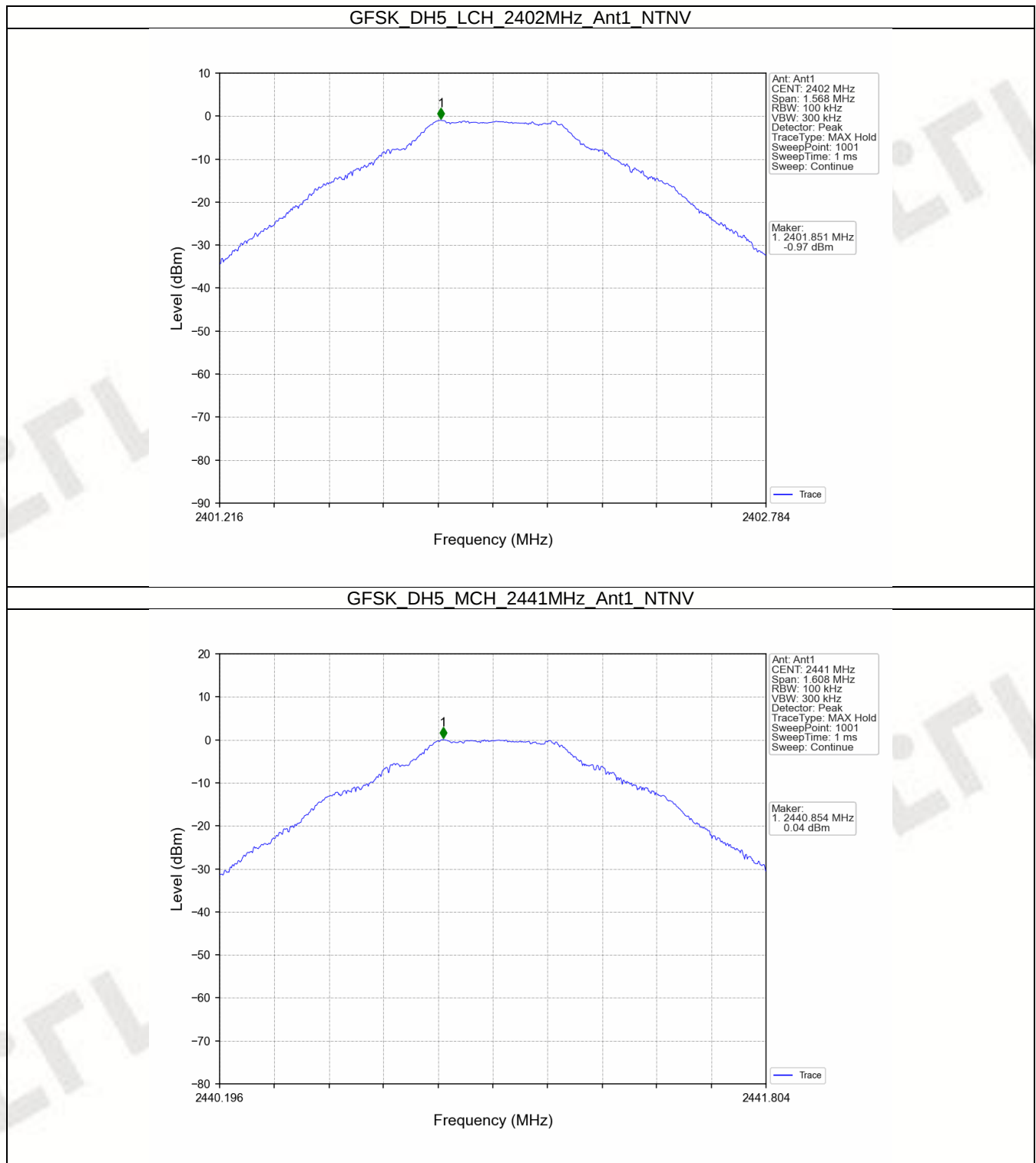
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.97
		2441	DH5	1	0.04
		2480	DH5	1	0.07
Pi/4DQPSK	SISO	2402	2DH5	1	-0.98
		2441	2DH5	1	-0.02
		2480	2DH5	1	0.11
8DPSK	SISO	2402	3DH5	1	-0.98
		2441	3DH5	1	-0.01
		2480	3DH5	1	0.12

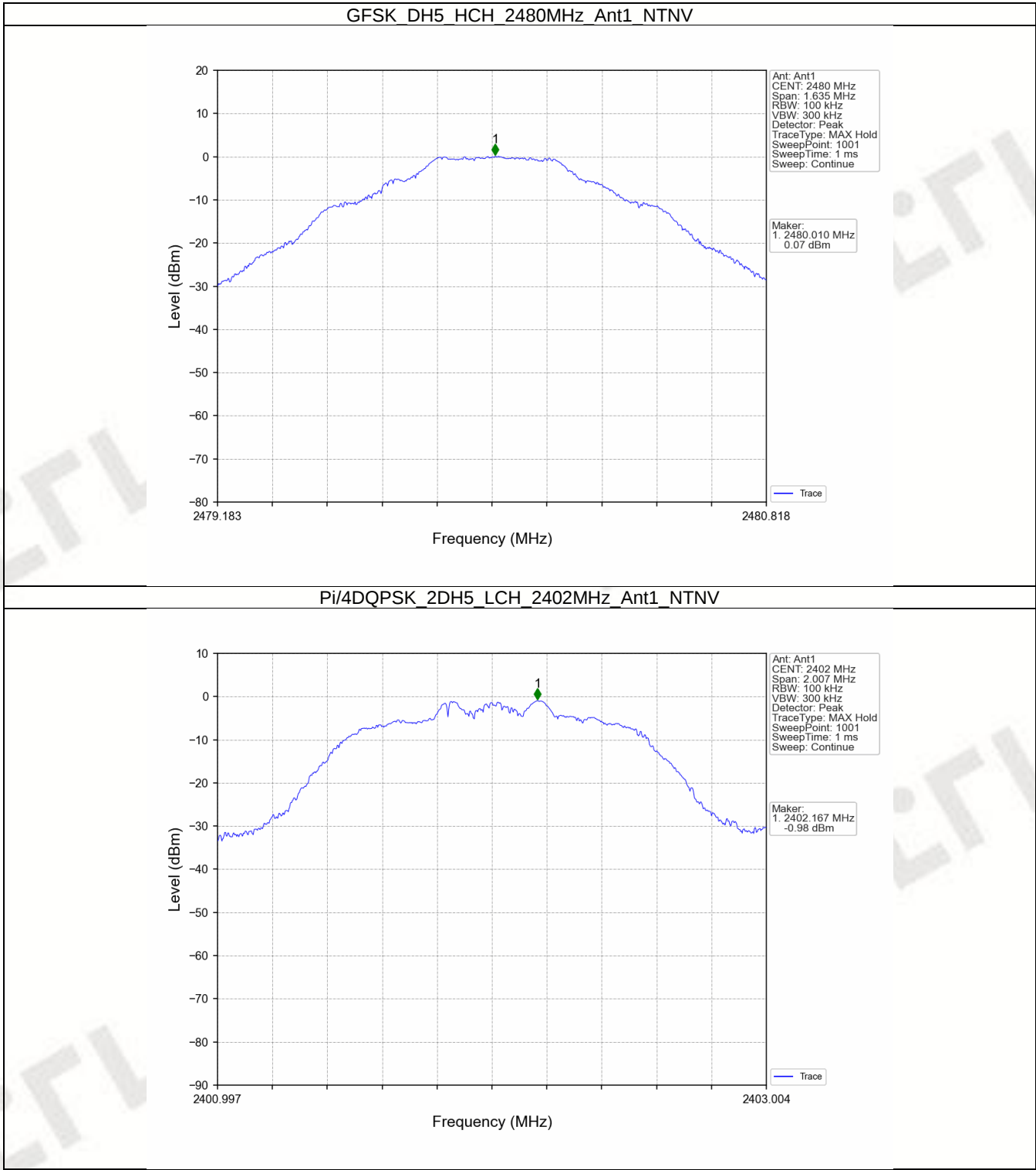
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

FCCID: 2BGKZ-DFBSK2882

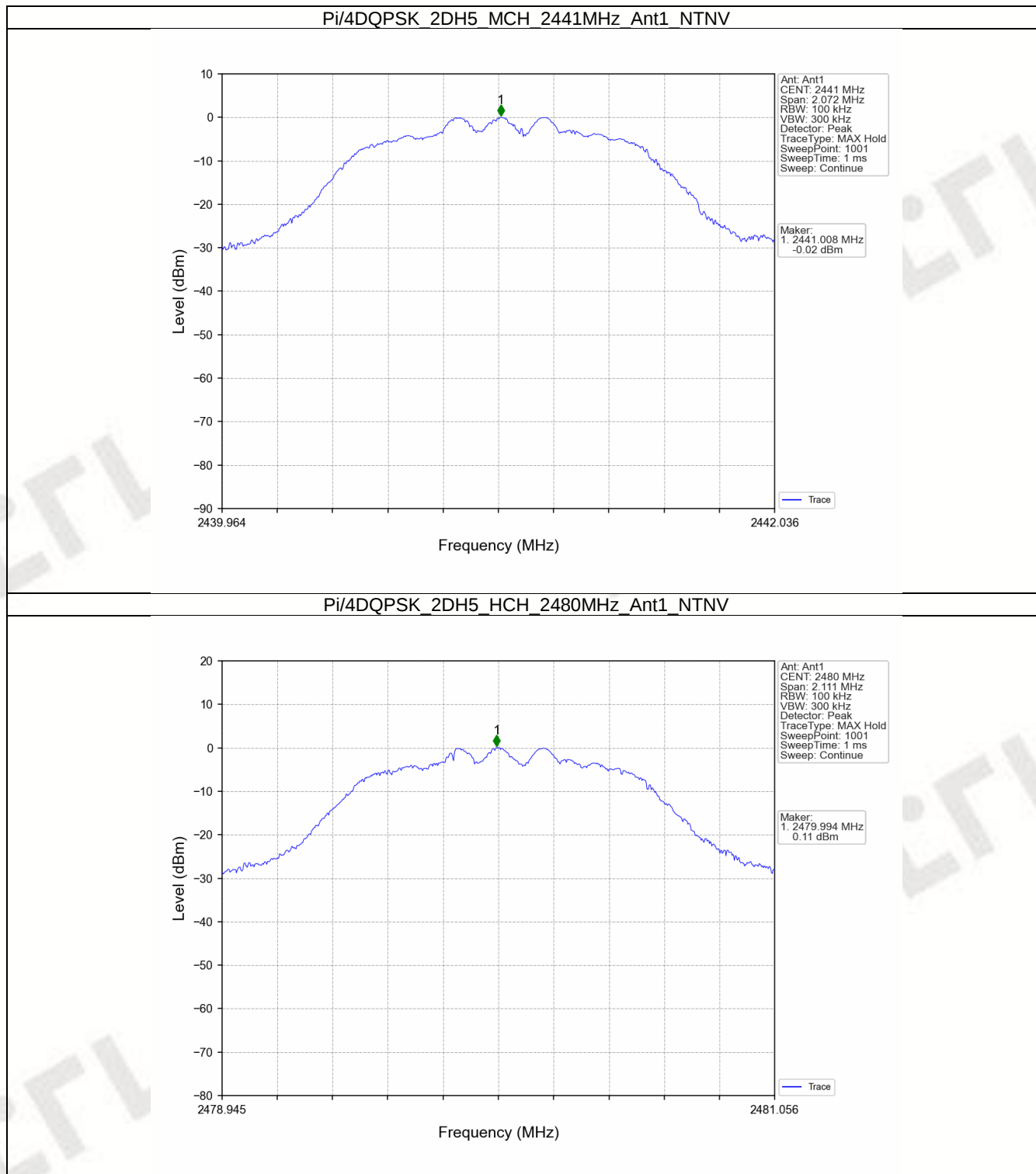
6.1.2 Test Graph



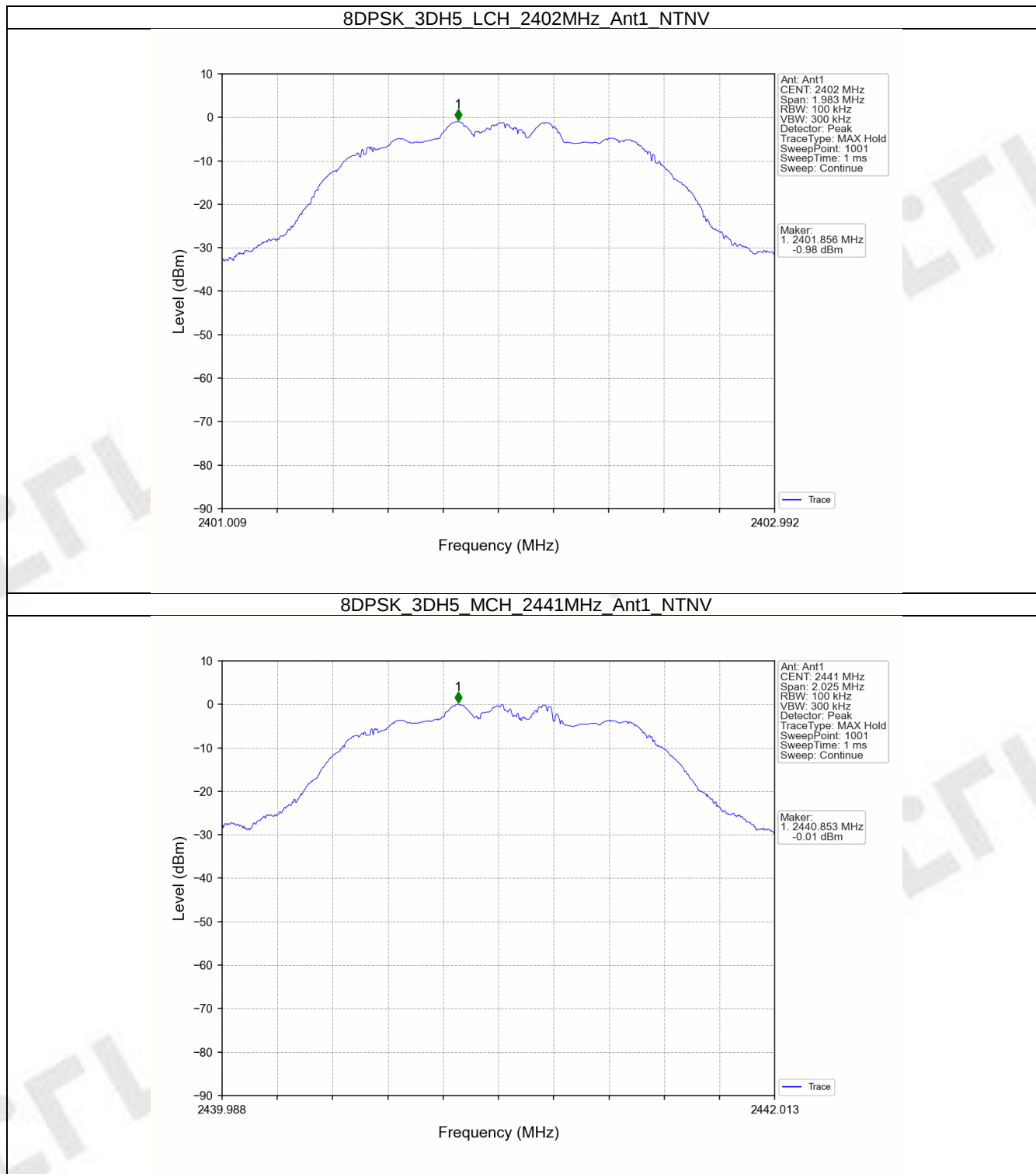
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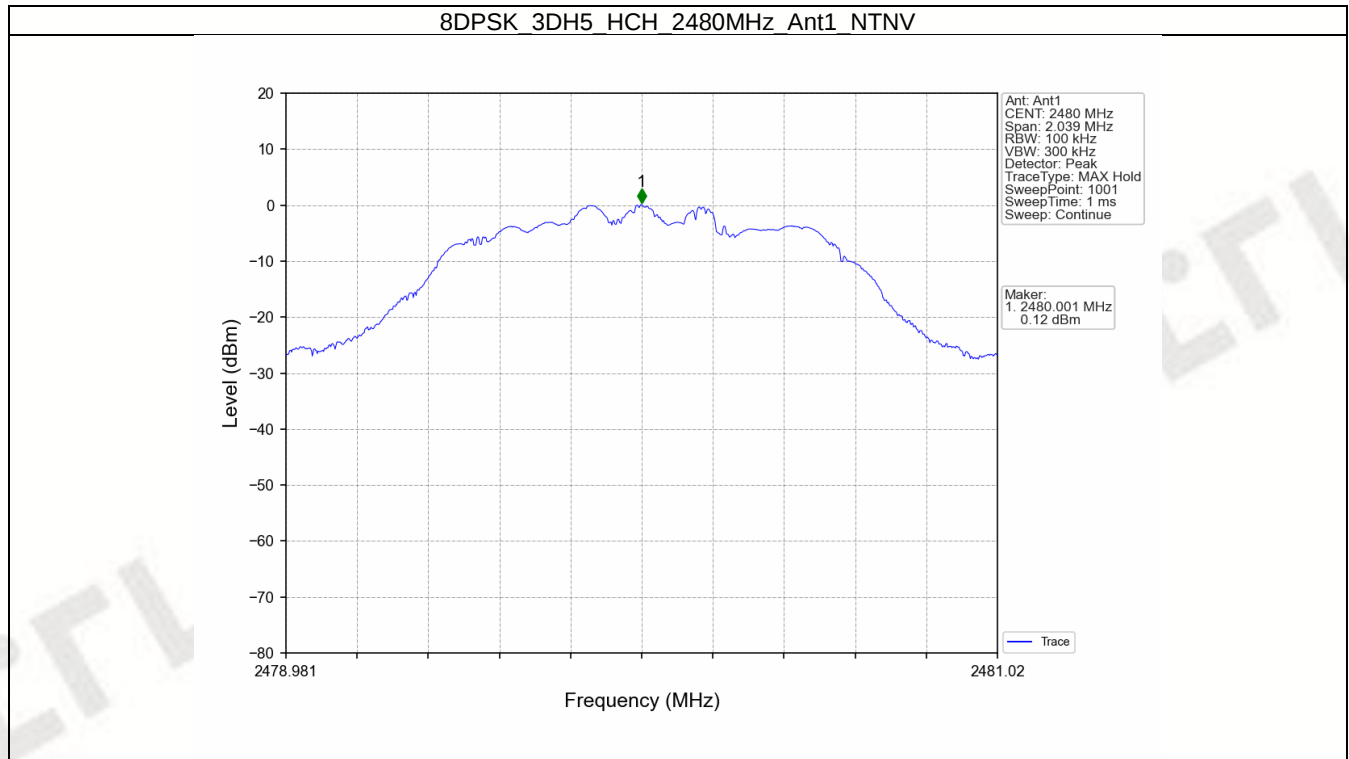
FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882



FCCID: 2BGKZ-DFBSK2882

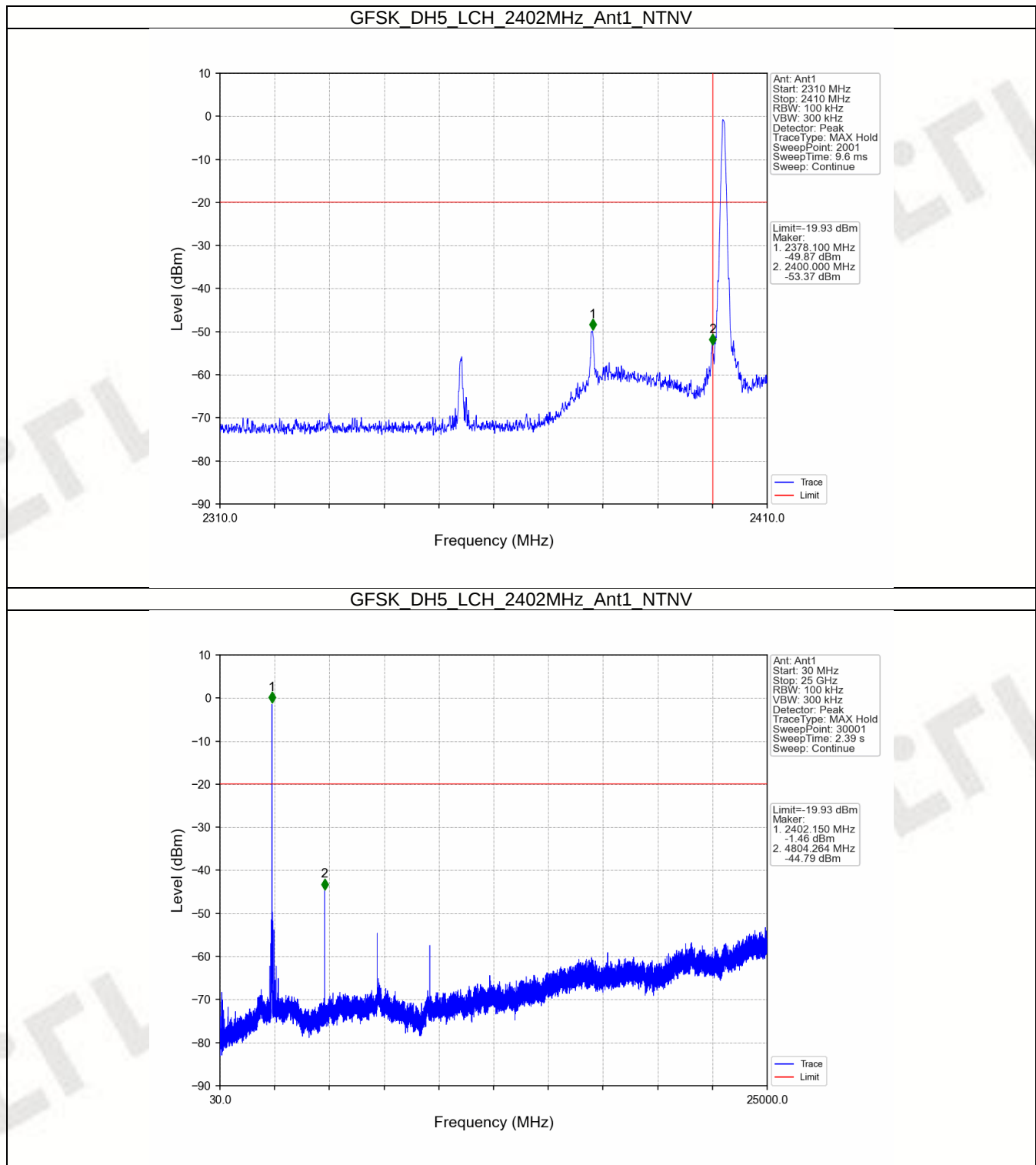
6.2 CSE

6.2.1 Test Result

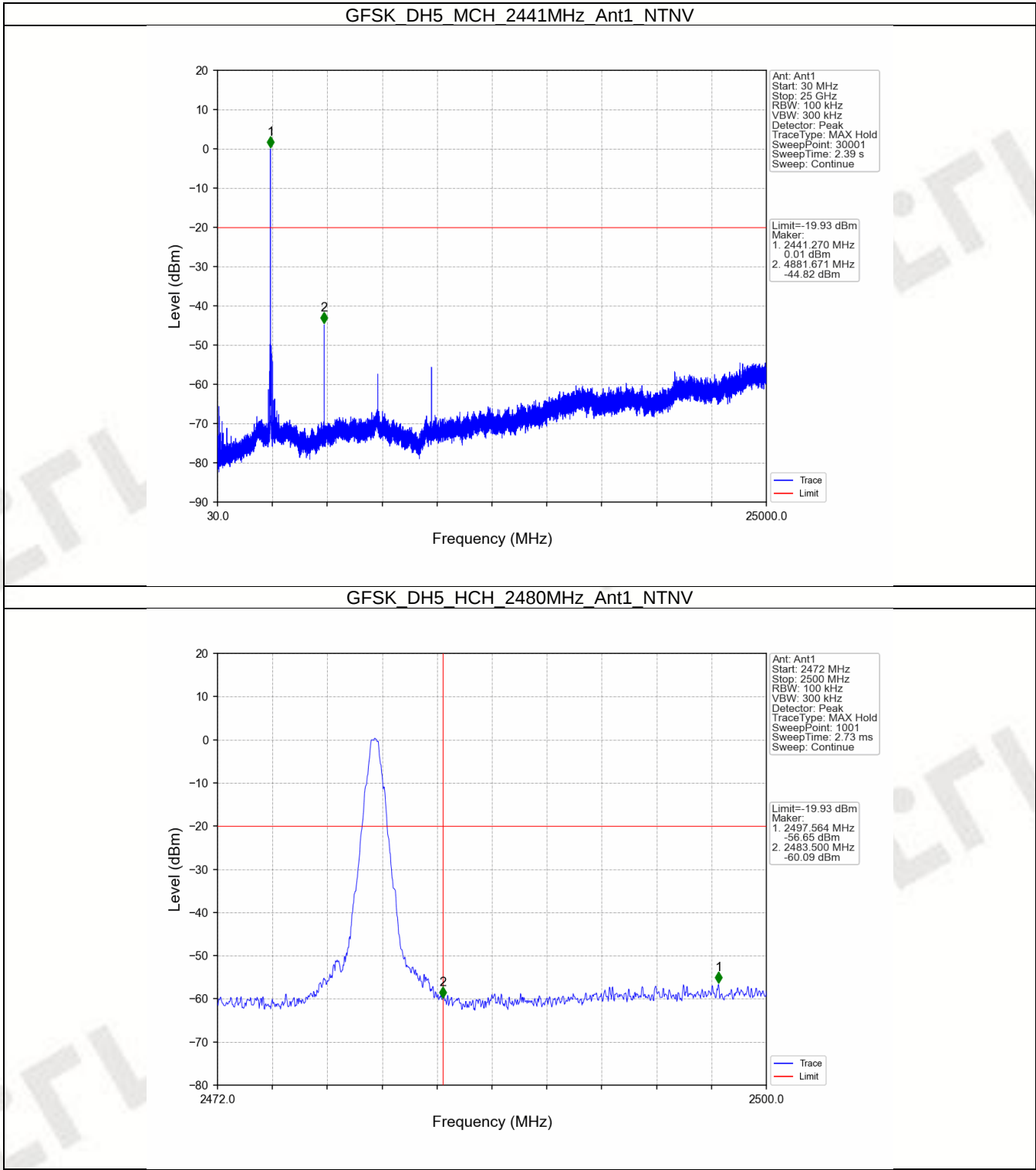
Mode	Tx Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.07	-19.93	Pass
		2441	DH5	1	0.07	-19.93	Pass
		2480	DH5	1	0.07	-19.93	Pass
		HOPP	DH5	1	0.07	-19.93	Pass
					0.07	-19.93	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.11	-19.89	Pass
		2441	2DH5	1	0.11	-19.89	Pass
		2480	2DH5	1	0.11	-19.89	Pass
		HOPP	2DH5	1	0.11	-19.89	Pass
					0.11	-19.89	Pass
8DPSK	SISO	2402	3DH5	1	0.12	-19.88	Pass
		2441	3DH5	1	0.12	-19.88	Pass
		2480	3DH5	1	0.12	-19.88	Pass
		HOPP	3DH5	1	0.12	-19.88	Pass
					0.12	-19.88	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.							

FCCID: 2BGKZ-DFBSK2882

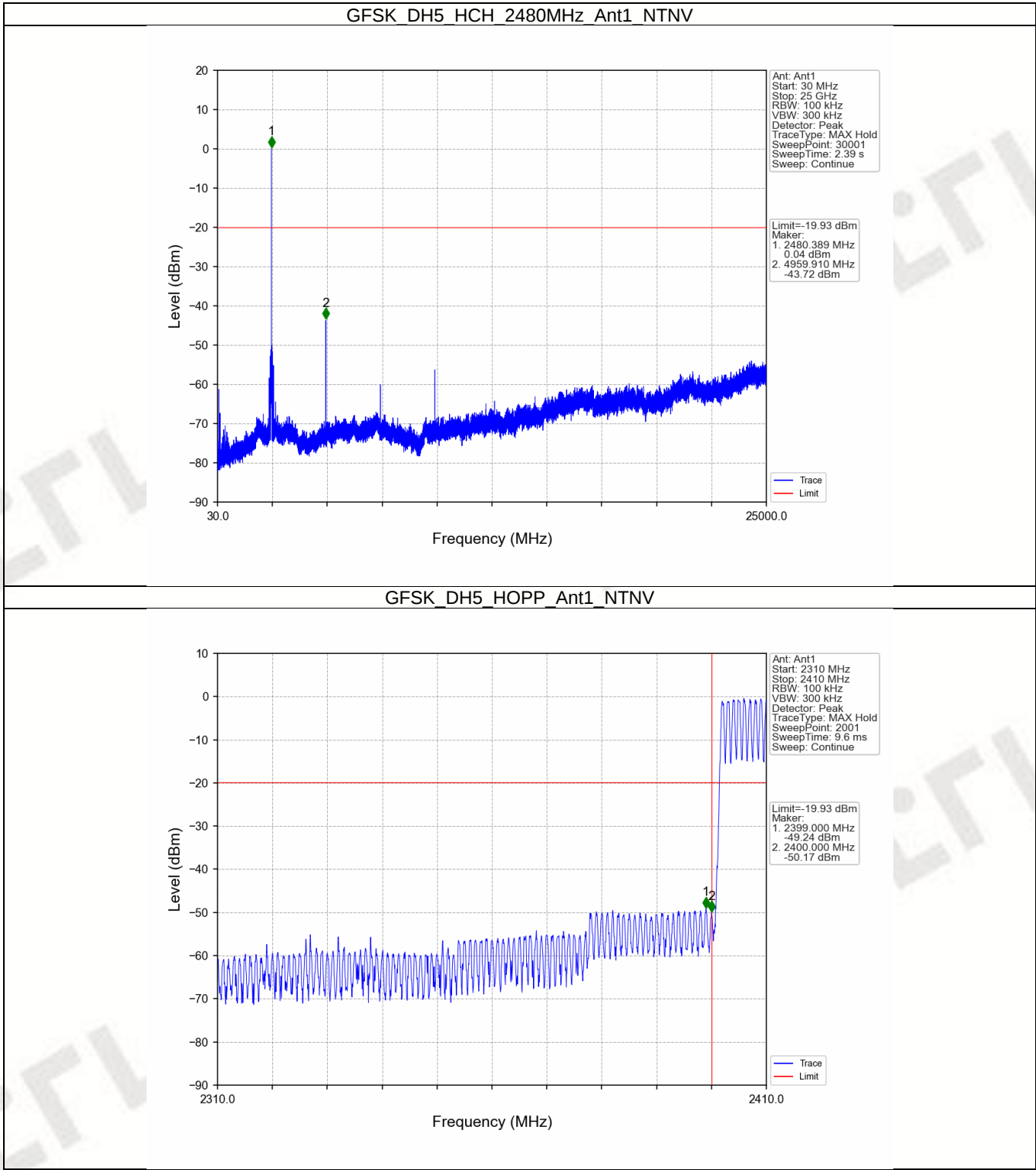
6.2.2 Test Graph



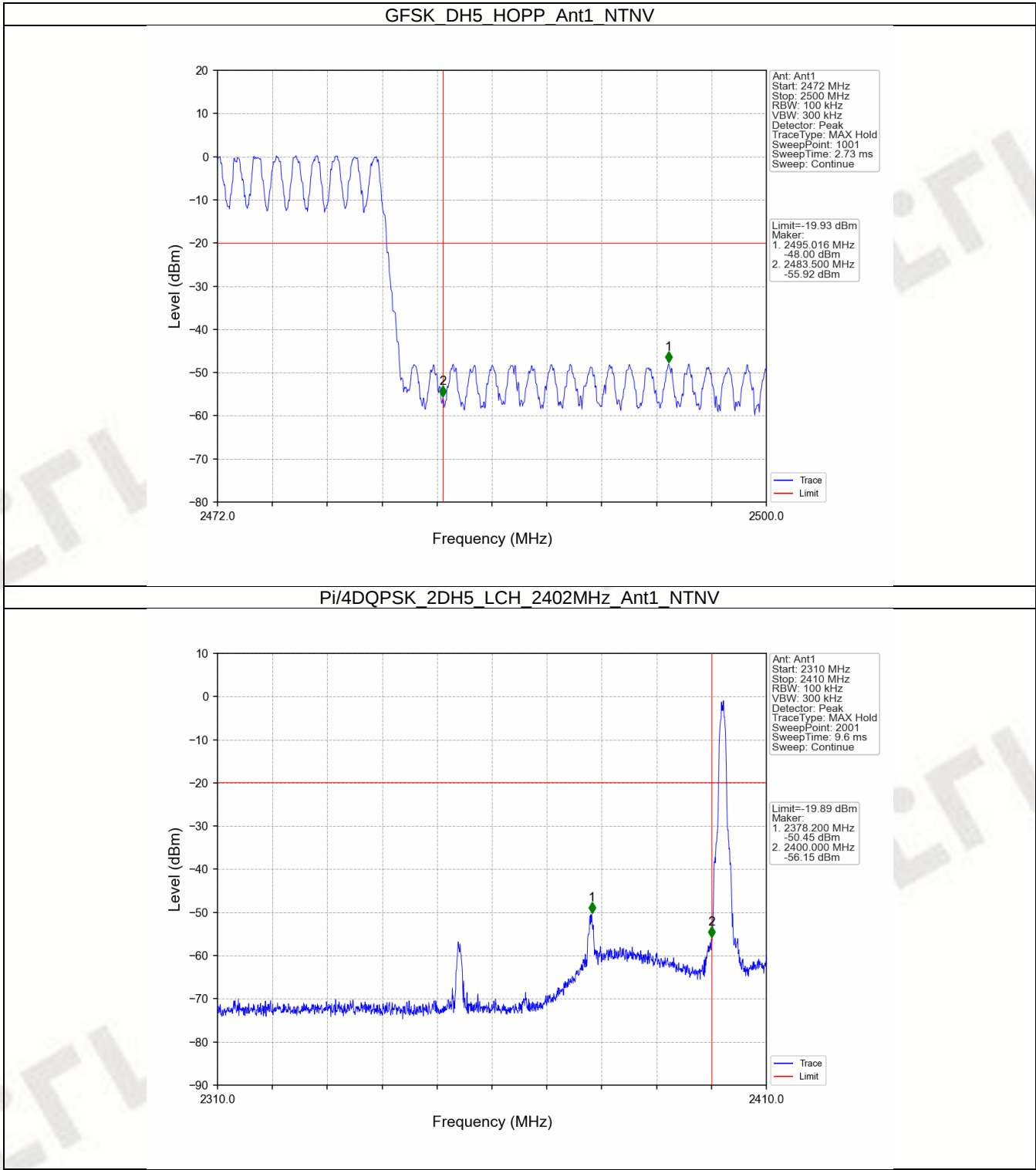
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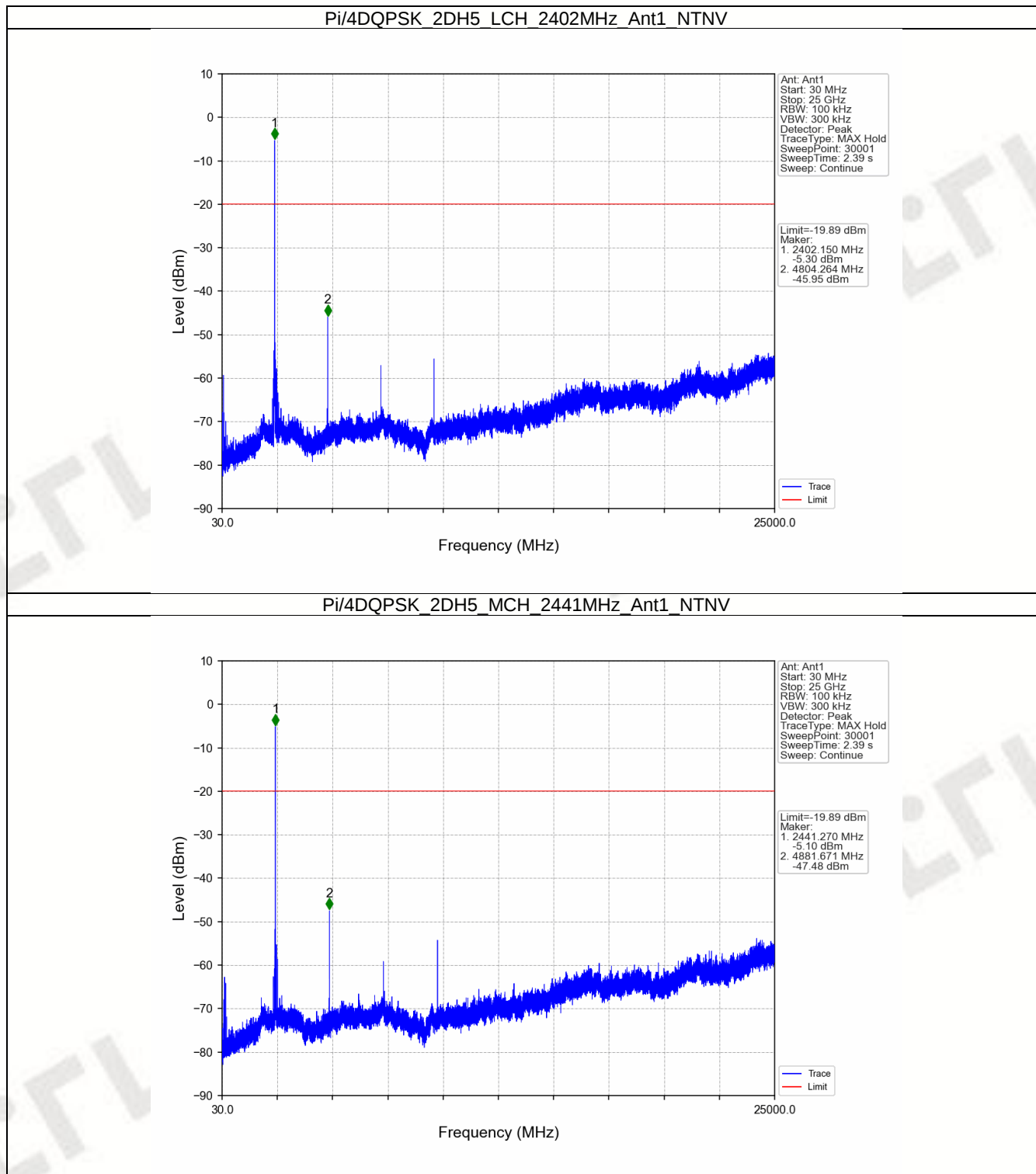
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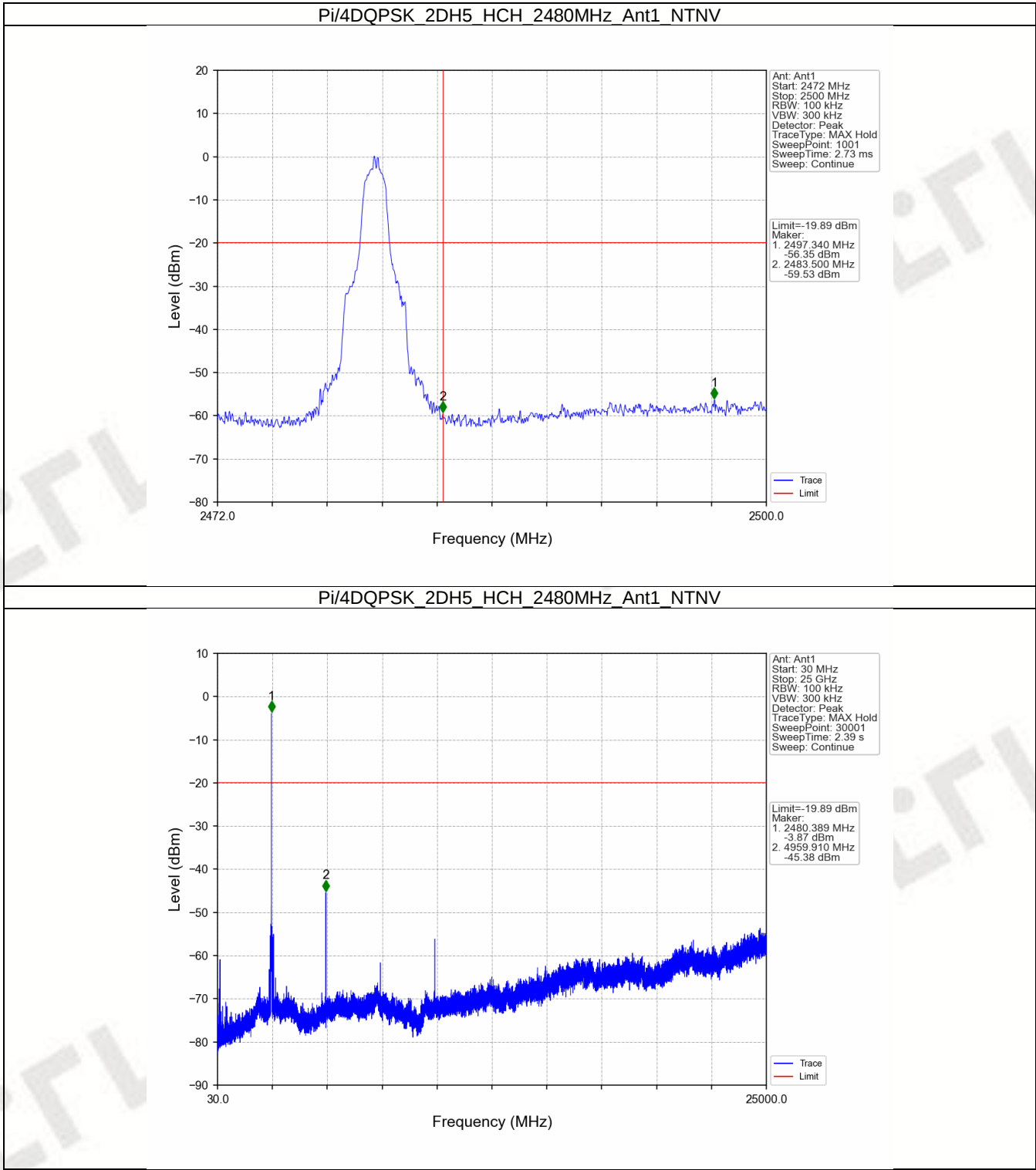
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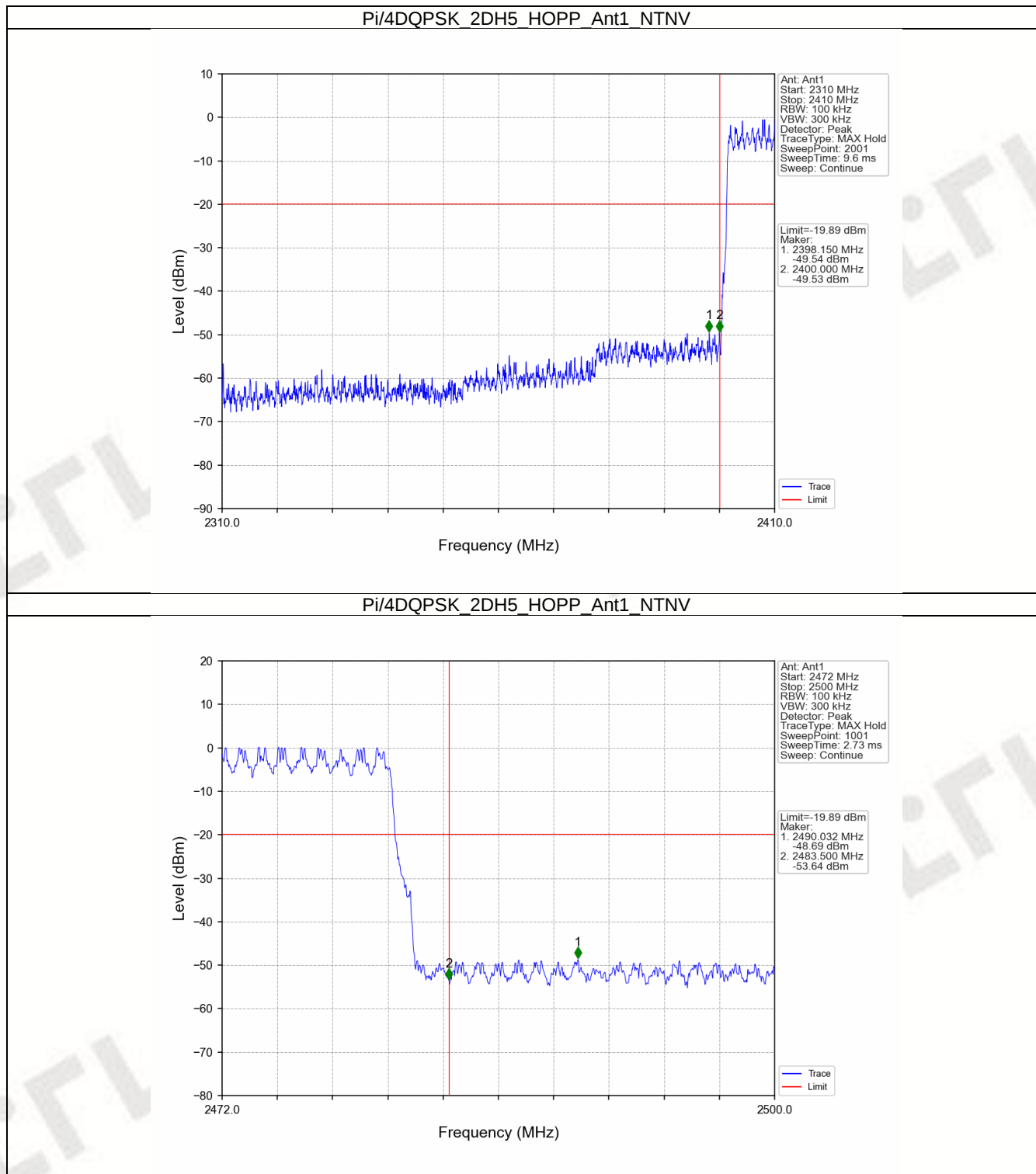
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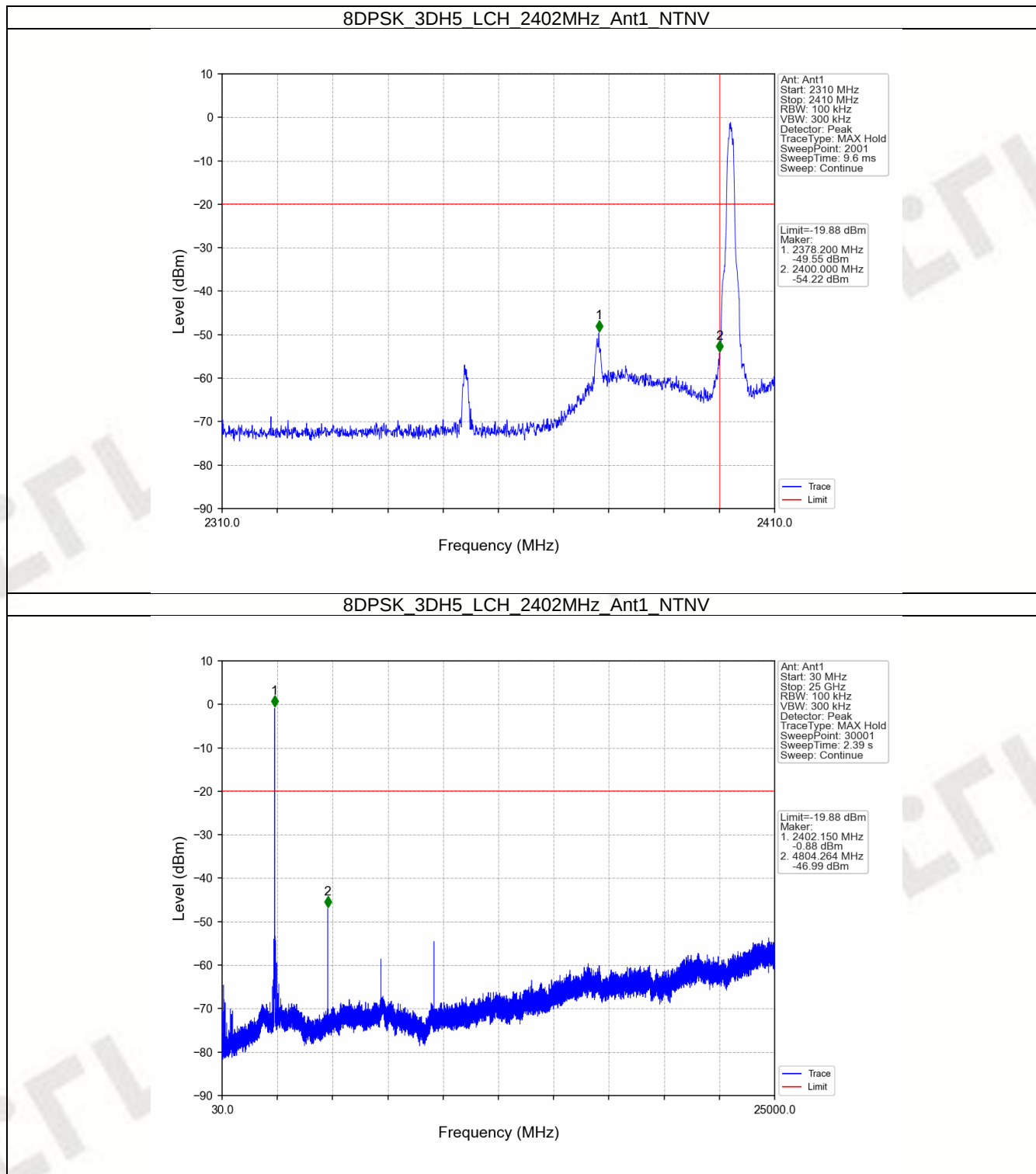
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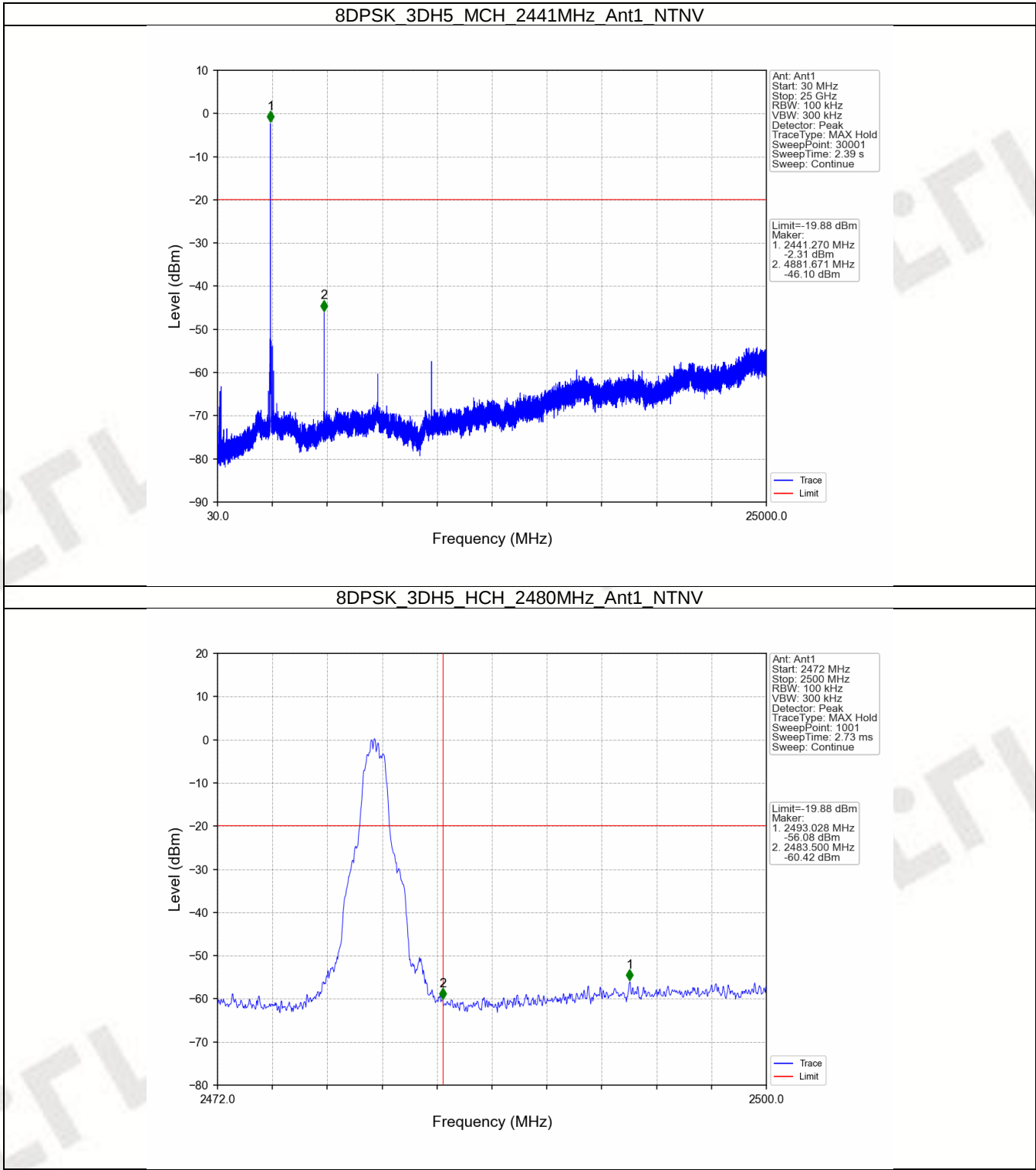
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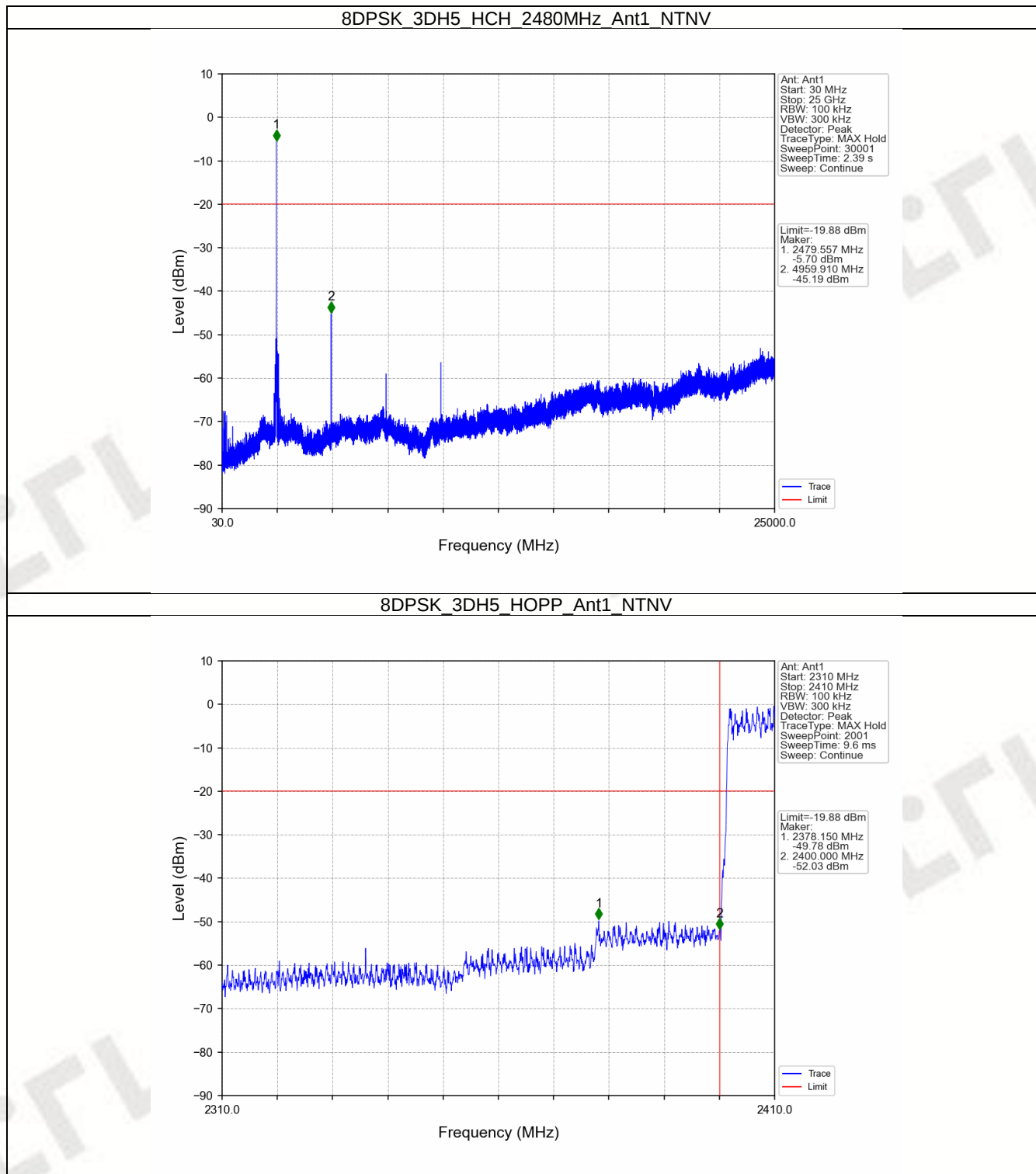
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FCCID: 2BGKZ-DFBSK2882

