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Annex for Bluetooth

Test Report No.: CTL2603312051-WF01

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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	0.761	/	Pass
		2441	DH5	1	0.764	/	Pass
		2480	DH5	1	0.760	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.150	/	Pass
		2441	2DH5	1	1.153	/	Pass
		2480	2DH5	1	1.153	/	Pass
8DPSK	SISO	2402	3DH5	1	1.157	/	Pass
		2441	3DH5	1	1.152	/	Pass
		2480	3DH5	1	1.157	/	Pass

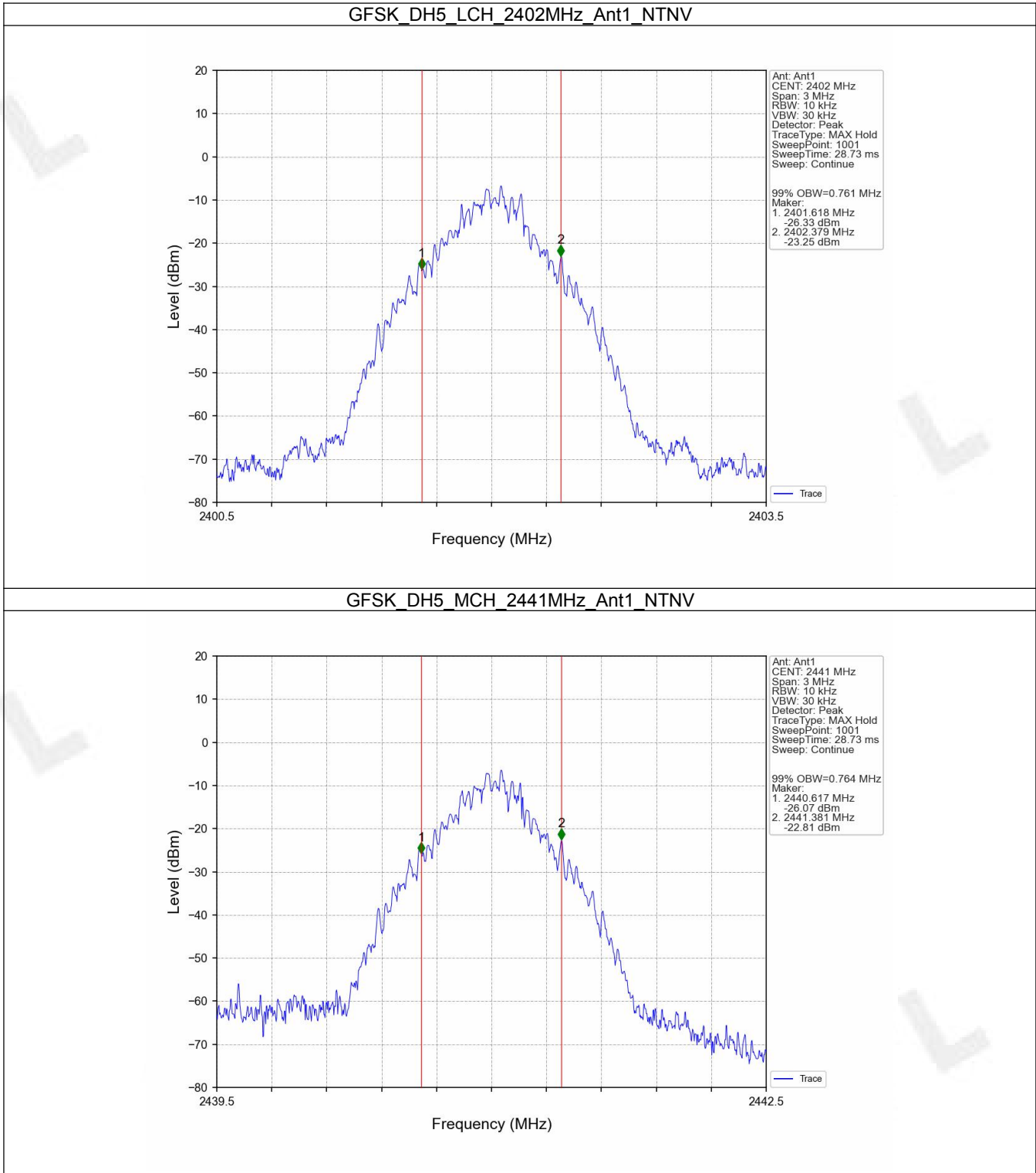
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.791	/	Pass
		2441	DH5	1	0.792	/	Pass
		2480	DH5	1	0.792	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.255	/	Pass
		2441	2DH5	1	1.216	/	Pass
		2480	2DH5	1	1.209	/	Pass
8DPSK	SISO	2402	3DH5	1	1.262	/	Pass
		2441	3DH5	1	1.250	/	Pass
		2480	3DH5	1	1.250	/	Pass

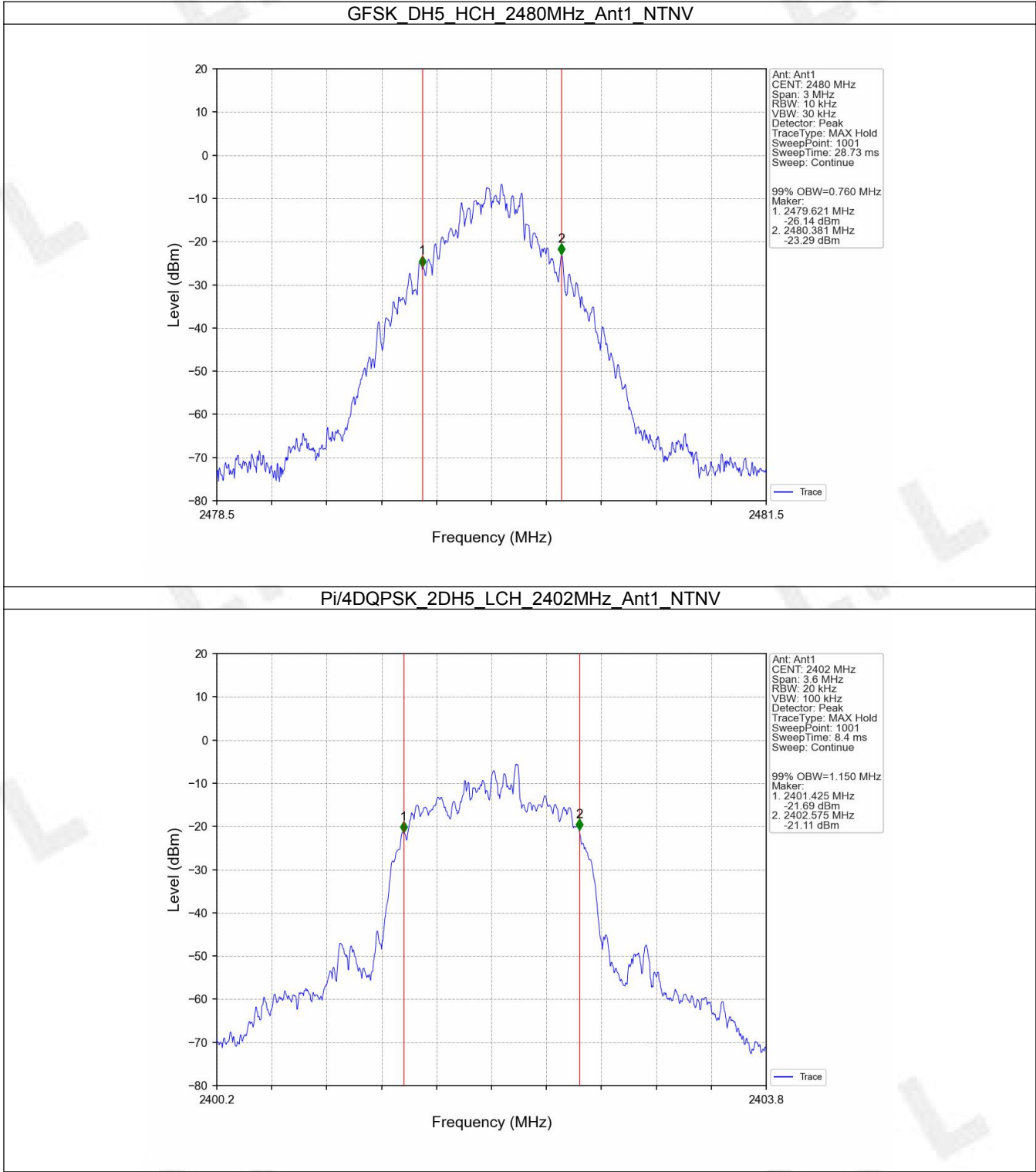
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1.2 Test Graph

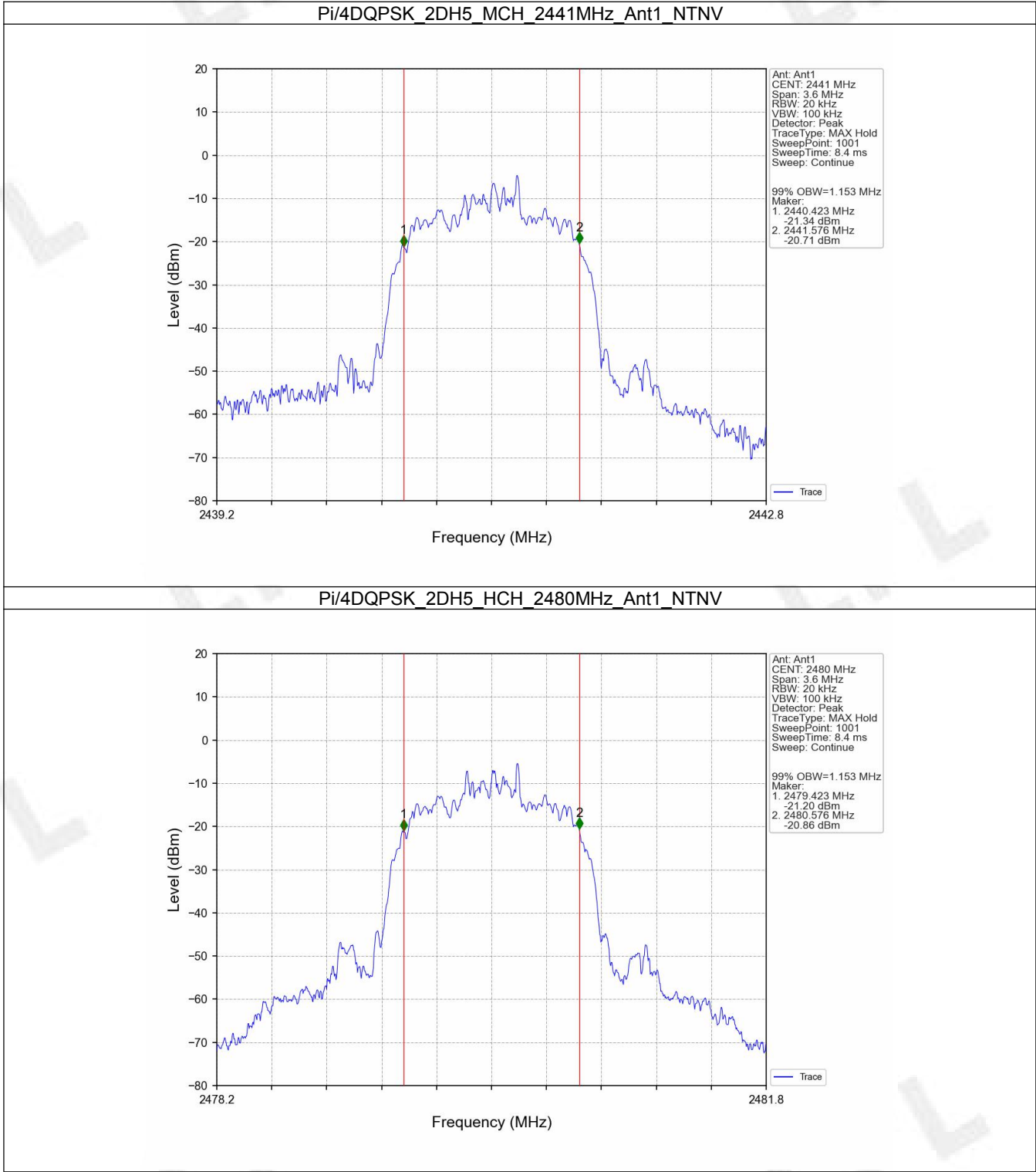
1.2.1 OBW



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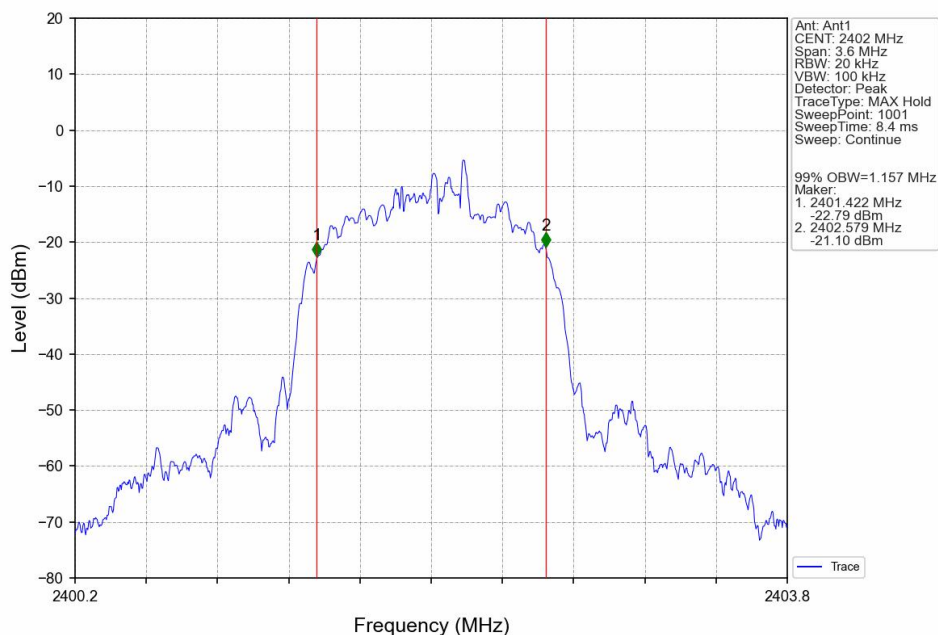


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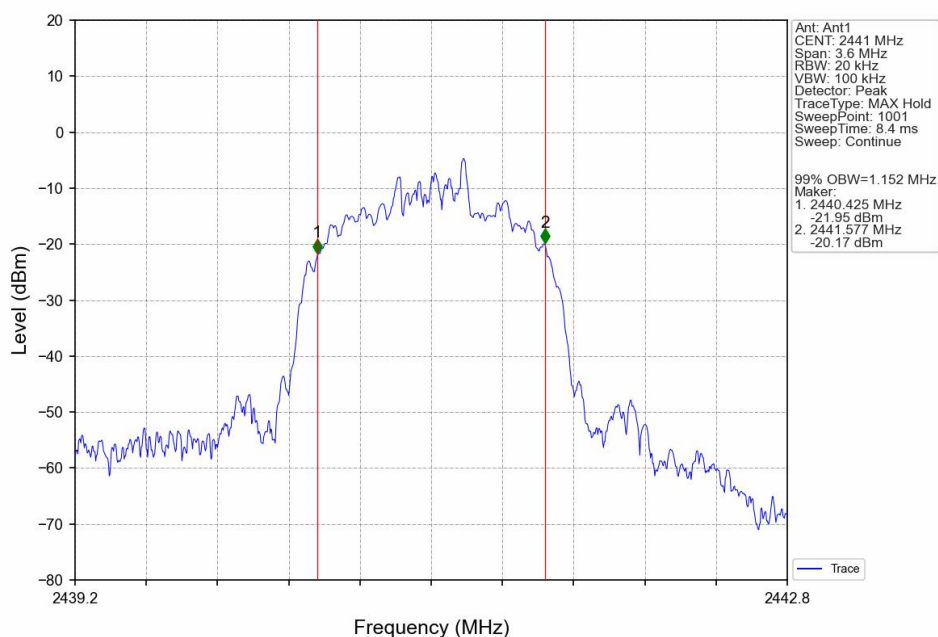


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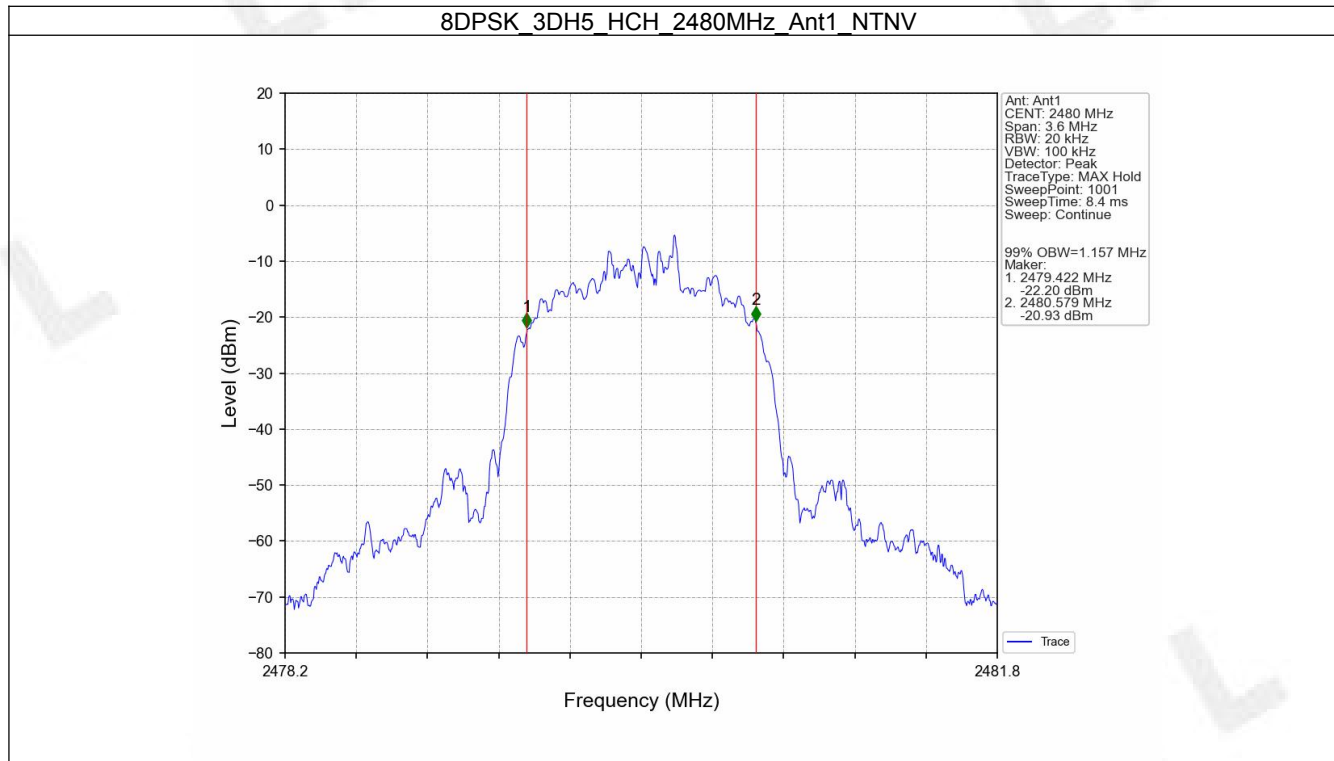
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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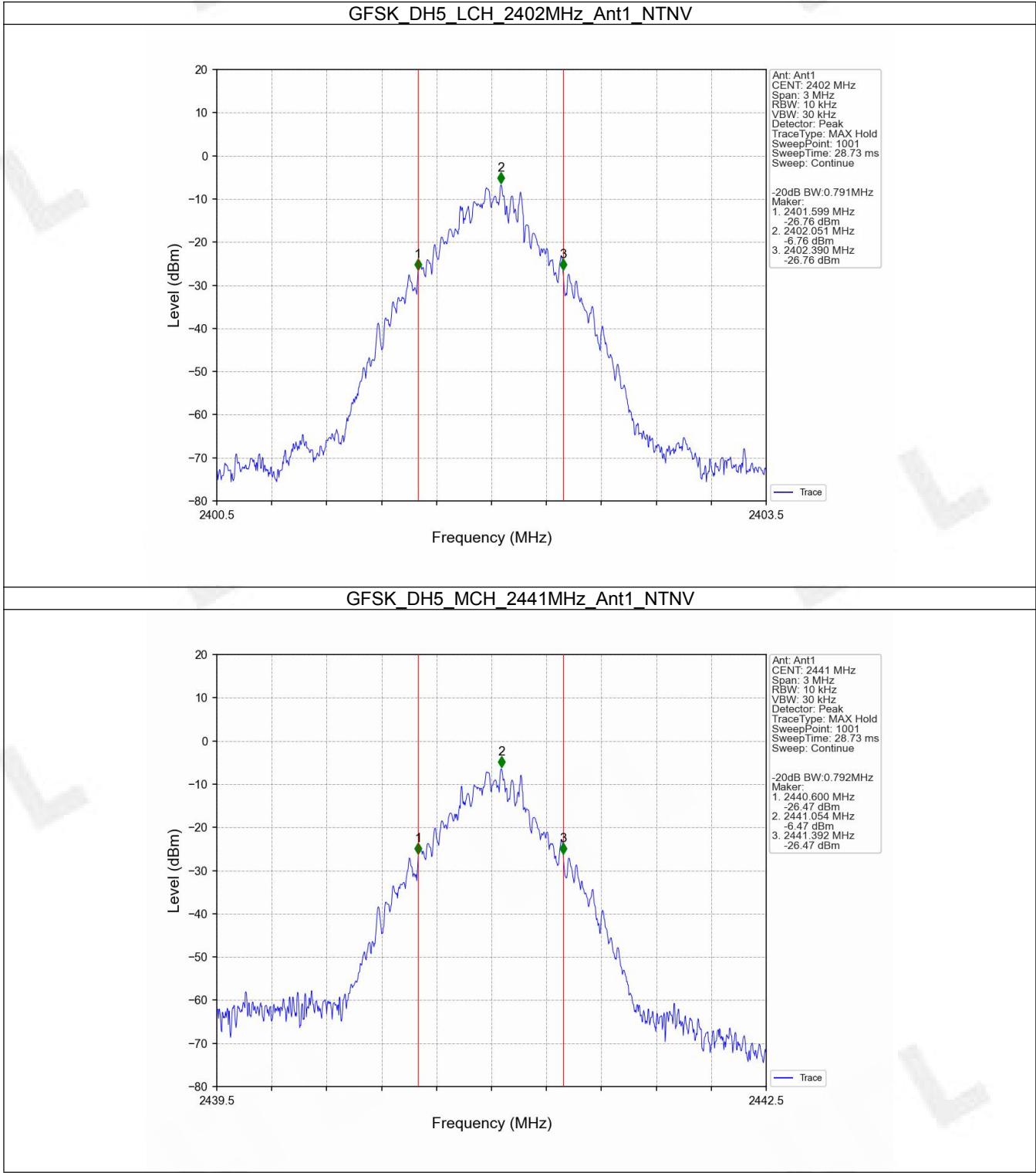


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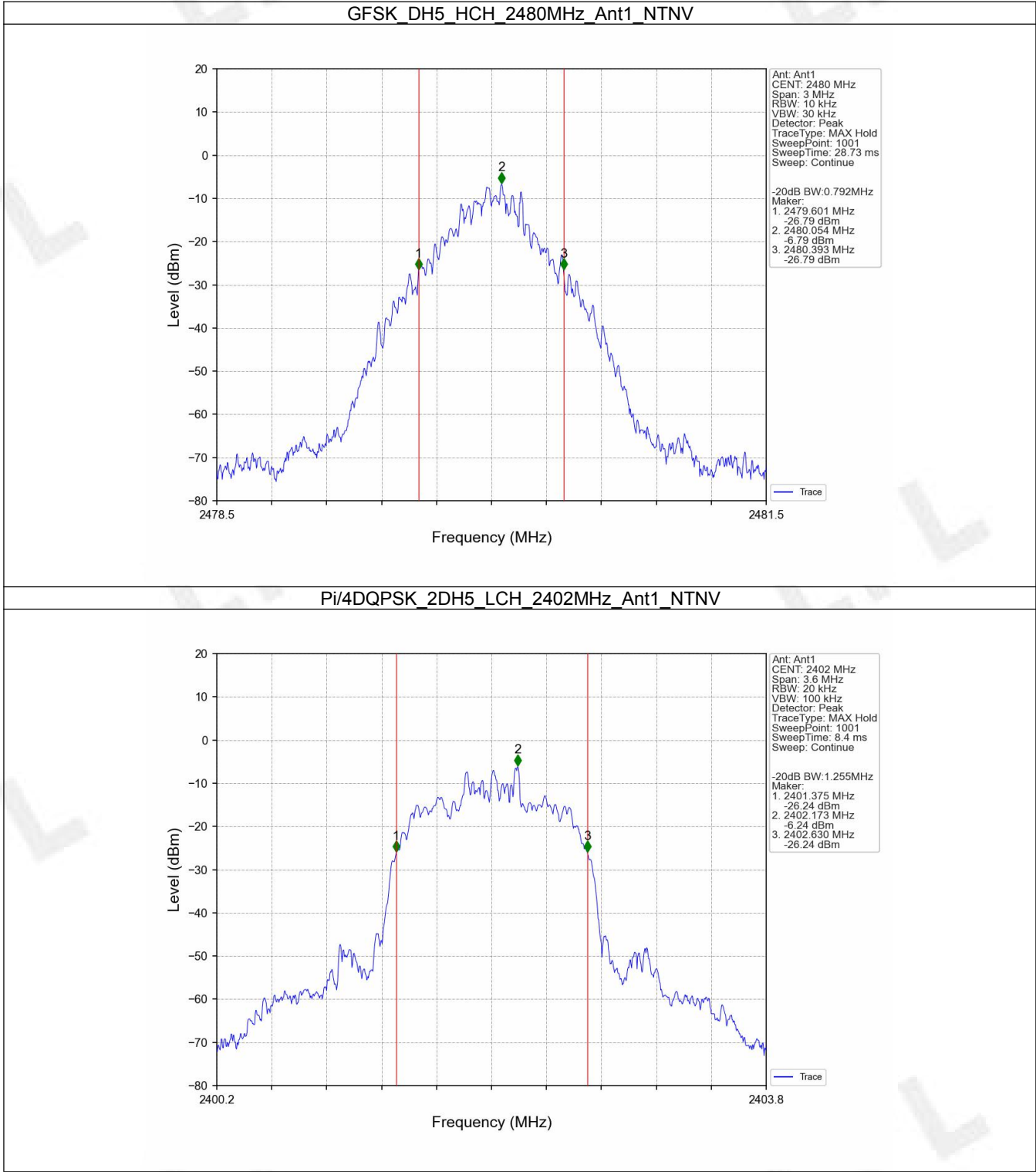


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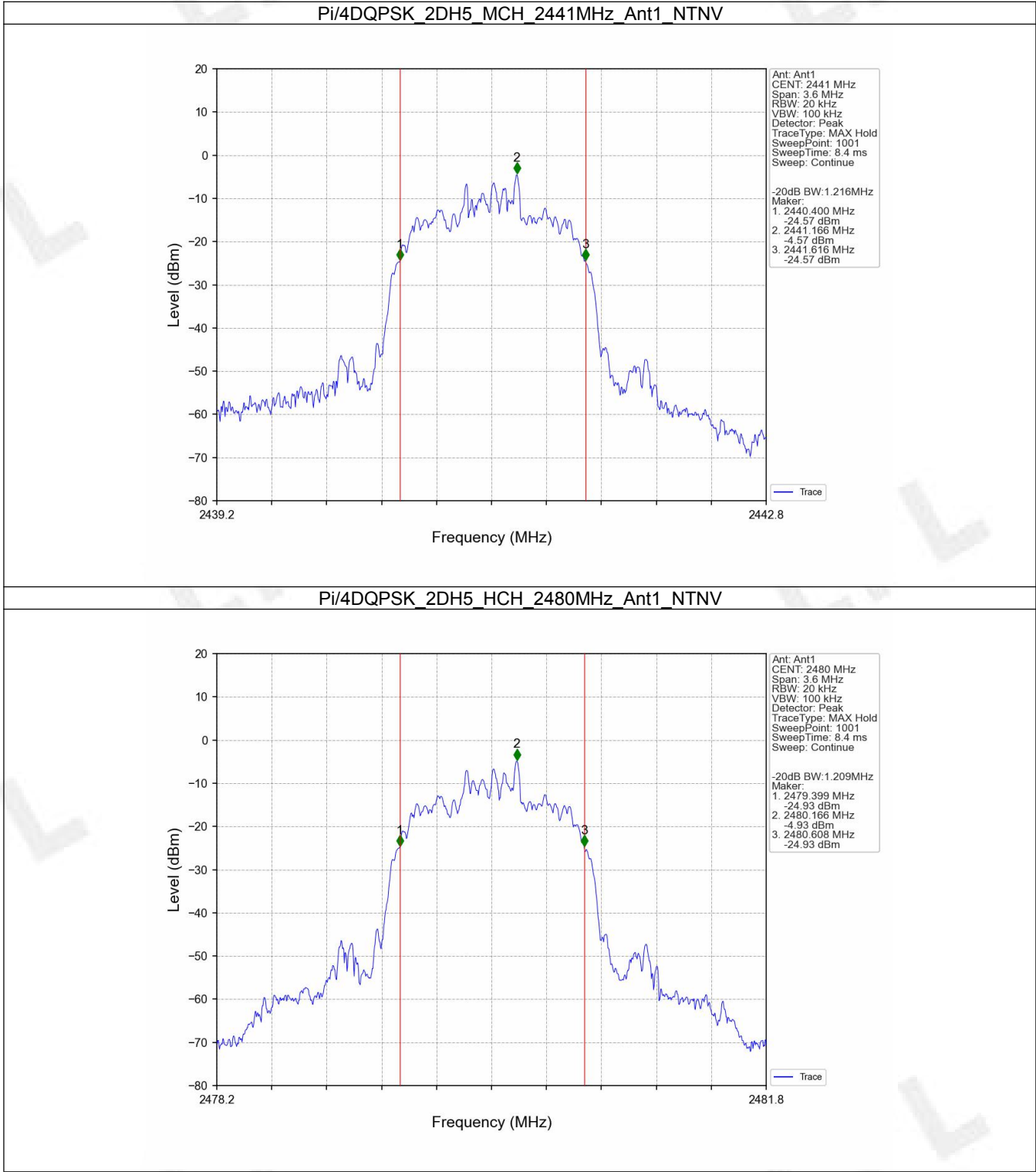
1.2.2 20dB BW



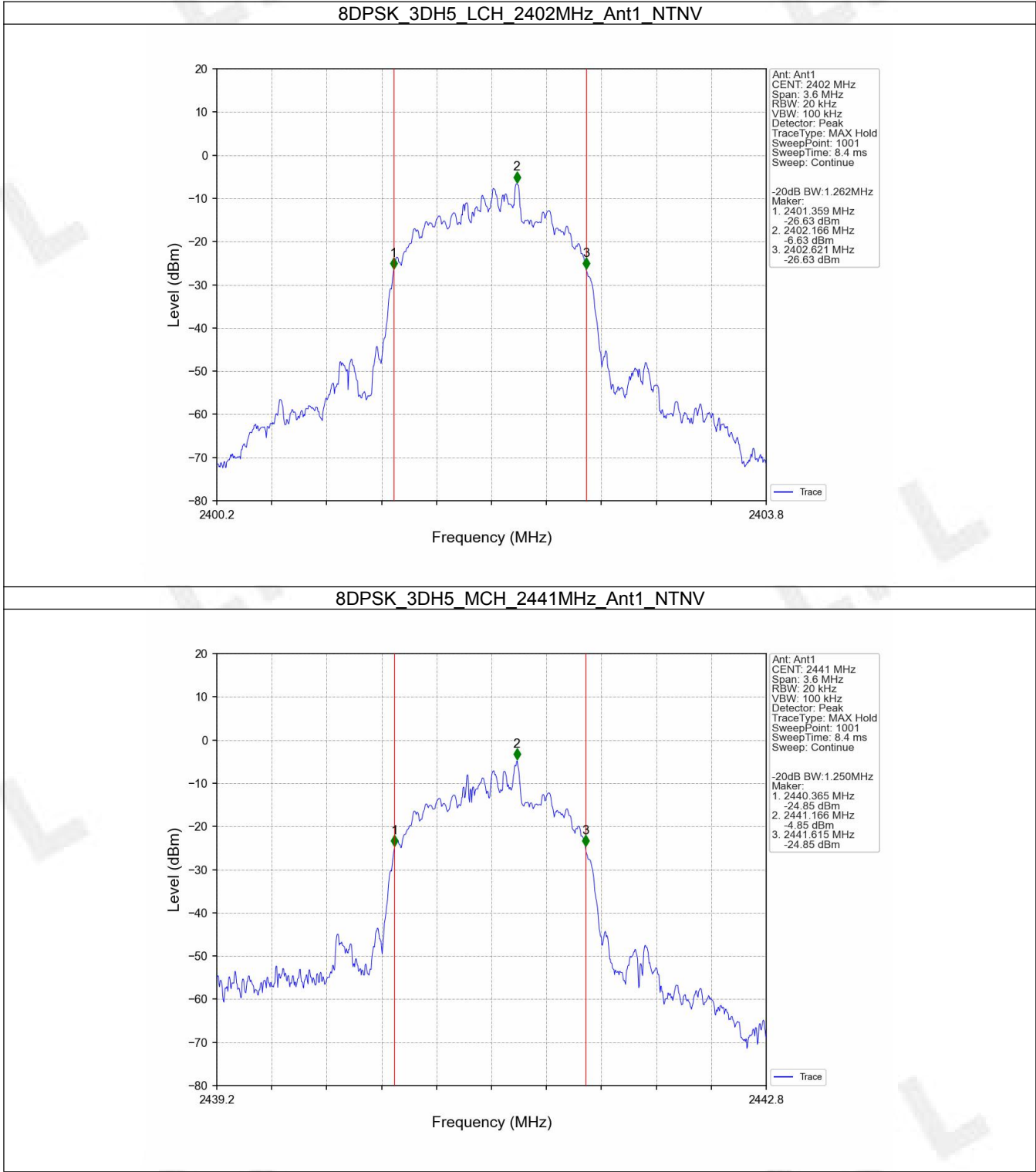
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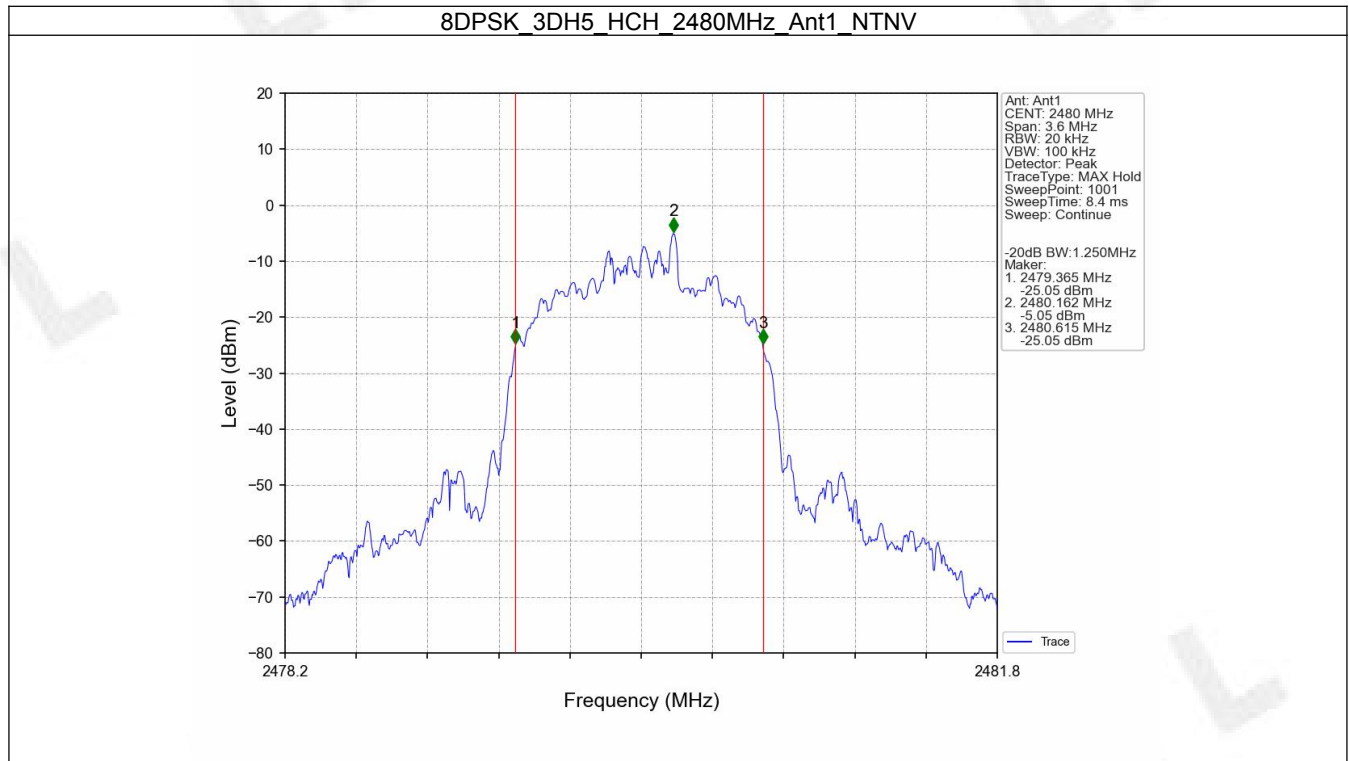
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2. Maximum Conducted Output Power

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	-1.15	<=30	Pass
		2441	DH5	-0.86	<=30	Pass
		2480	DH5	-1.15	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.71	<=20.97	Pass
		2441	2DH5	-1.08	<=20.97	Pass
		2480	2DH5	-1.44	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-1.69	<=20.97	Pass
		2441	3DH5	-1.11	<=20.97	Pass
		2480	3DH5	-1.44	<=20.97	Pass

Note1: Antenna Gain: Ant1: -0.15dBi;

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3. Carrier Frequency Separation

3.1 Test Result

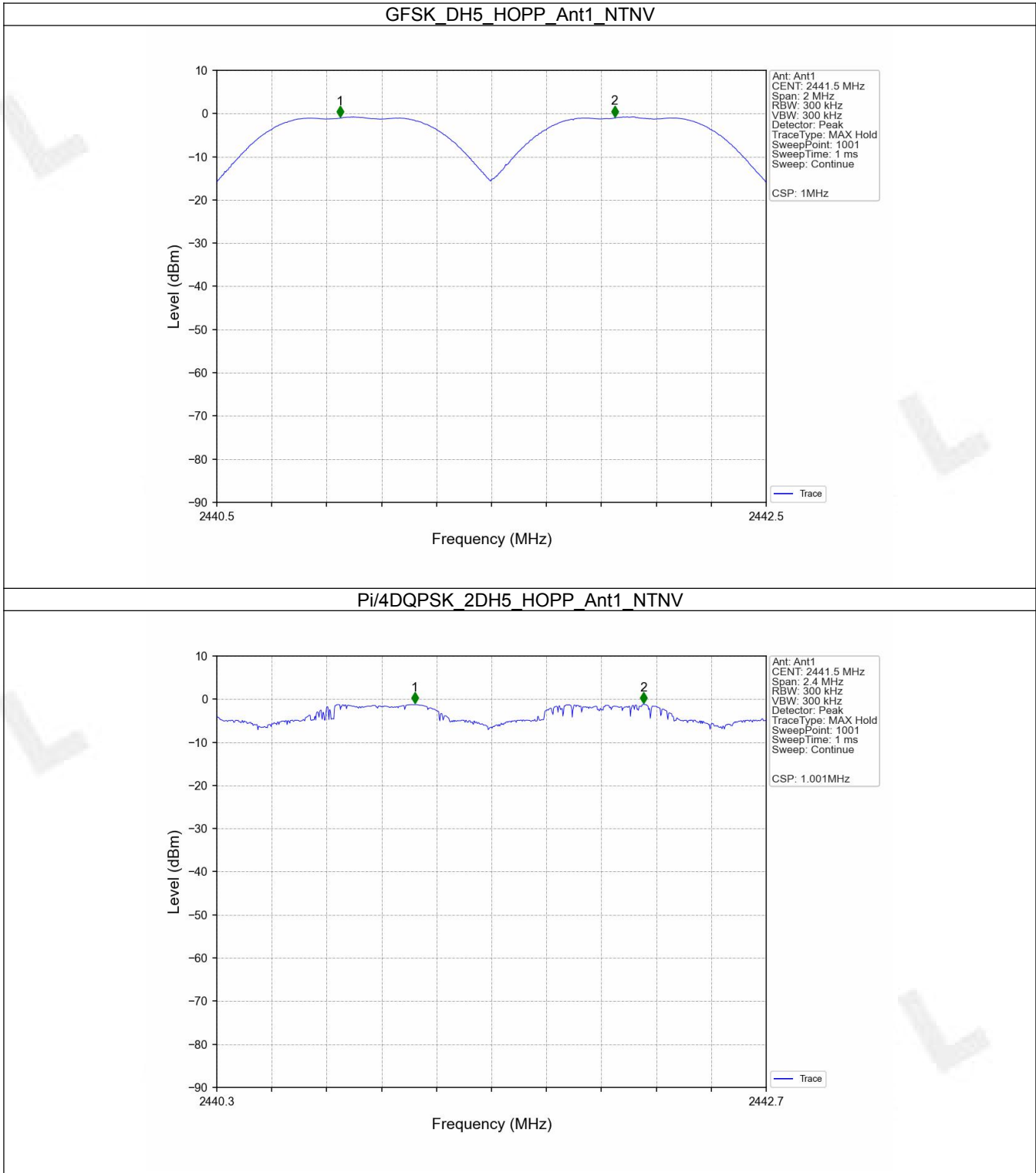
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.792	≥ 0.792	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.255	≥ 0.837	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.262	≥ 0.841	Pass

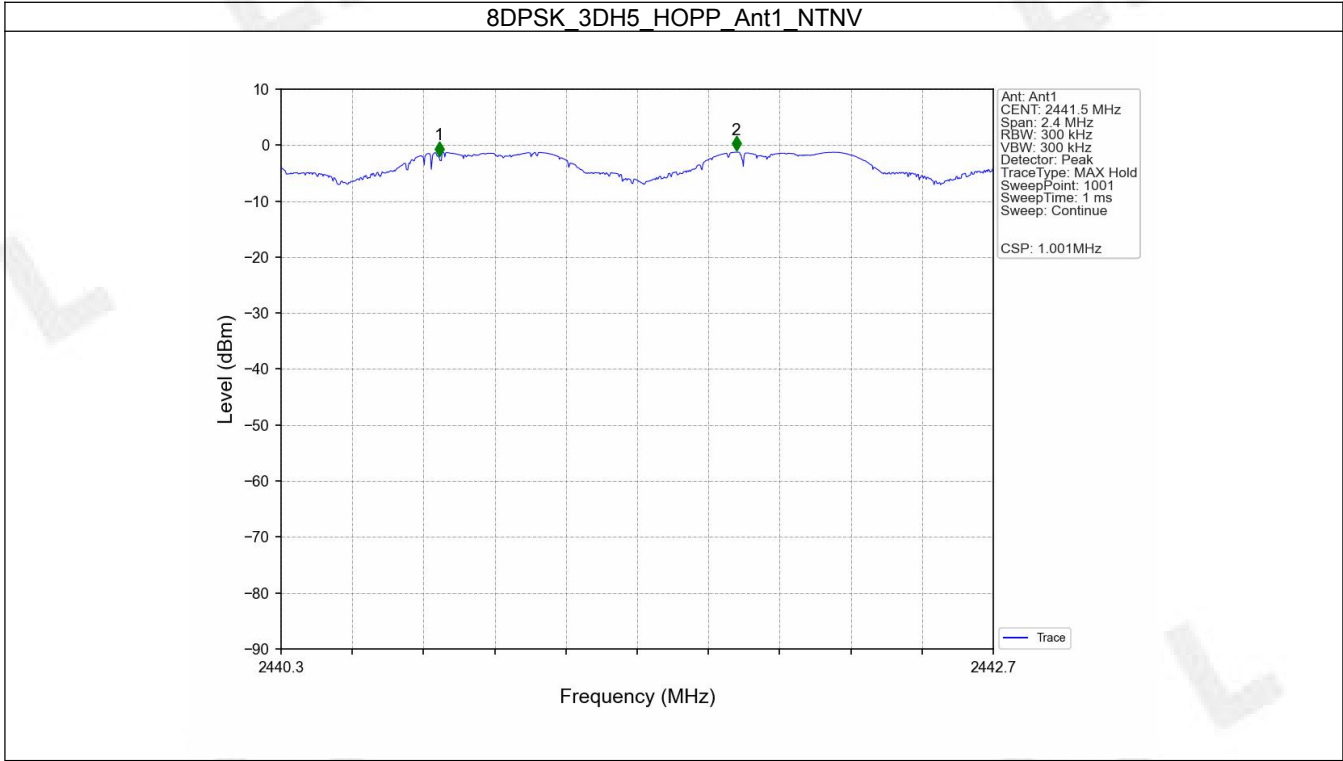
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3.2 Test Graph

3.2.1 Ant1



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FCC ID: 2BWH8-S26-UITRA

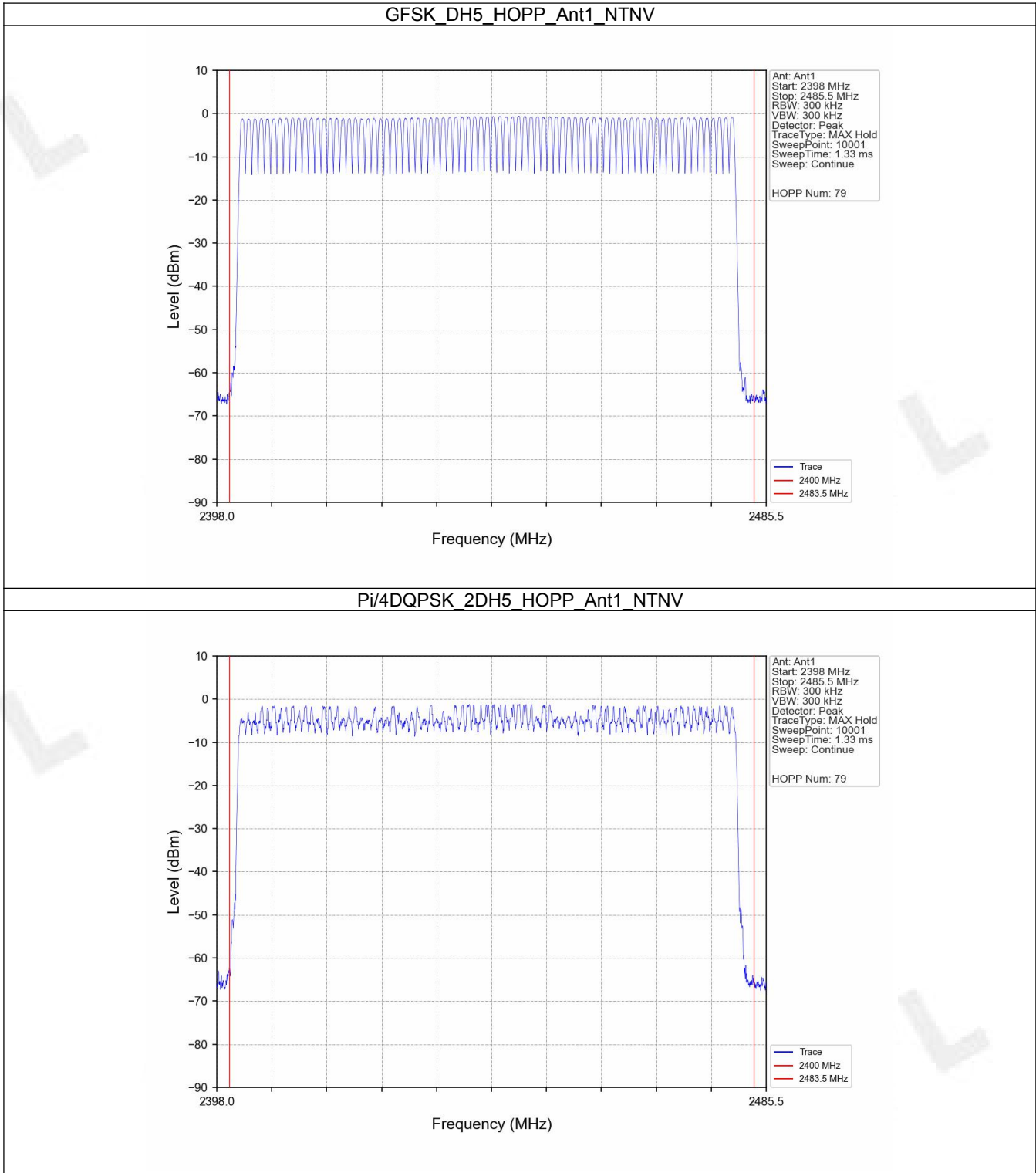
4. Number of Hopping Frequencies**4.1 Test Result****4.1.1 HoppNum**

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

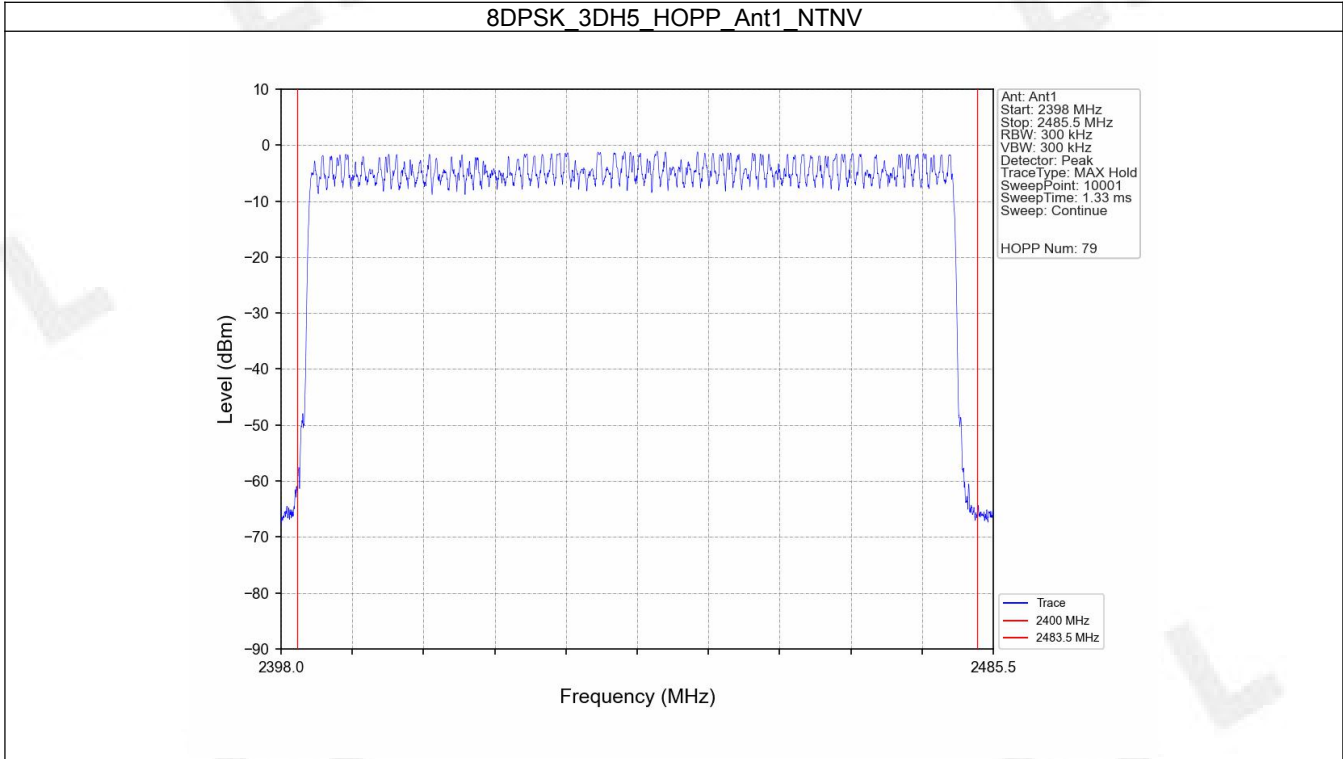
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4.2 Test Graph

4.2.1 HoppNum



FCC ID: 2BWH8-S26-UITRA



FCC ID: 2BWH8-S26-UITRA

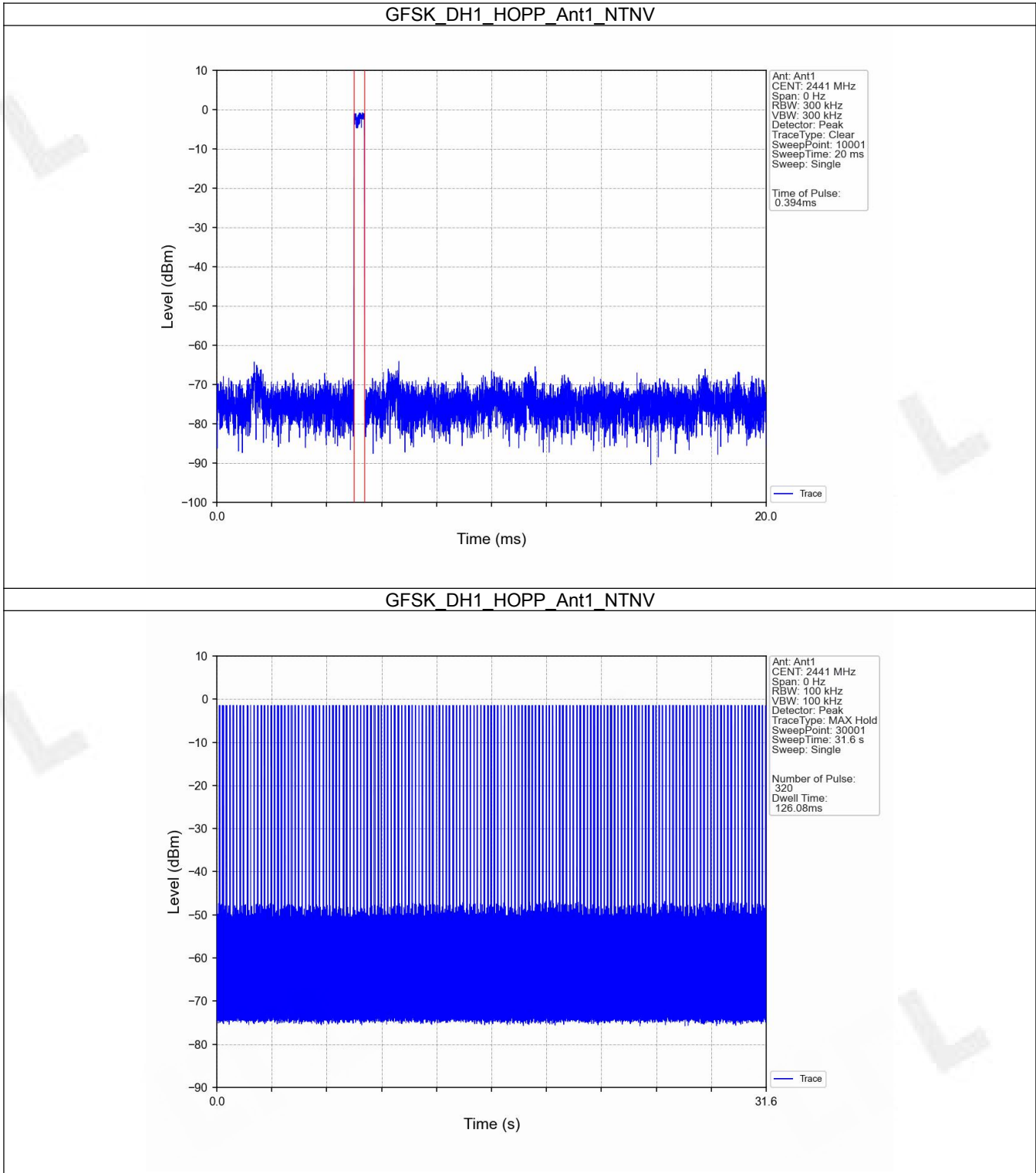
5. Time of Occupancy (Dwell Time)**5.1 Test Result****5.1.1 Ant1**

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	0.394	31.600	320	126.080	<=400	Pass
			DH3	1.650	31.600	160	264.000	<=400	Pass
			DH5	2.894	31.600	100	289.400	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.642	31.600	158	259.436	<=400	Pass
			2DH5	2.898	31.600	108	312.984	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.640	31.600	158	259.120	<=400	Pass
			3DH5	2.900	31.600	116	336.400	<=400	Pass

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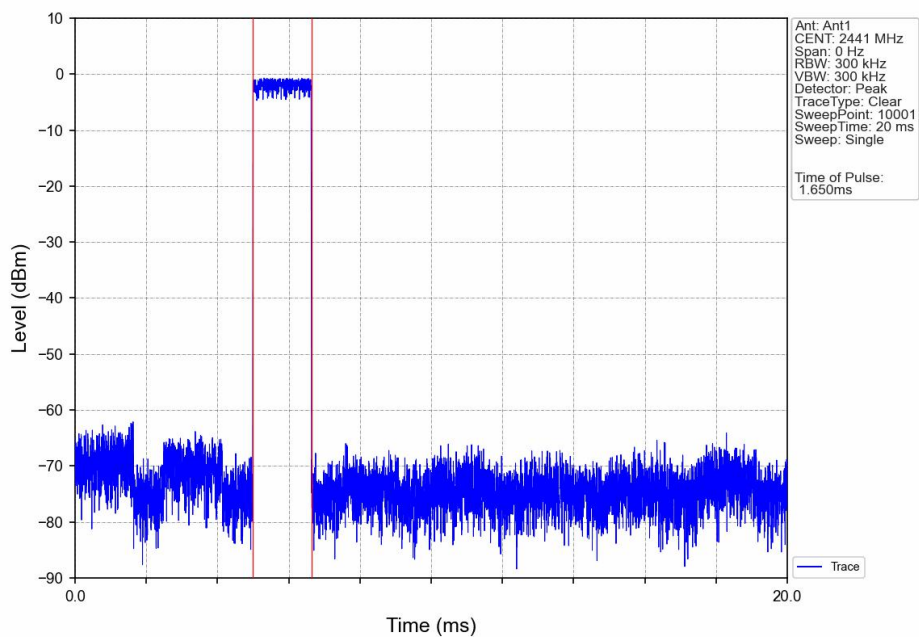
5.2 Test Graph

5.2.1 Ant1

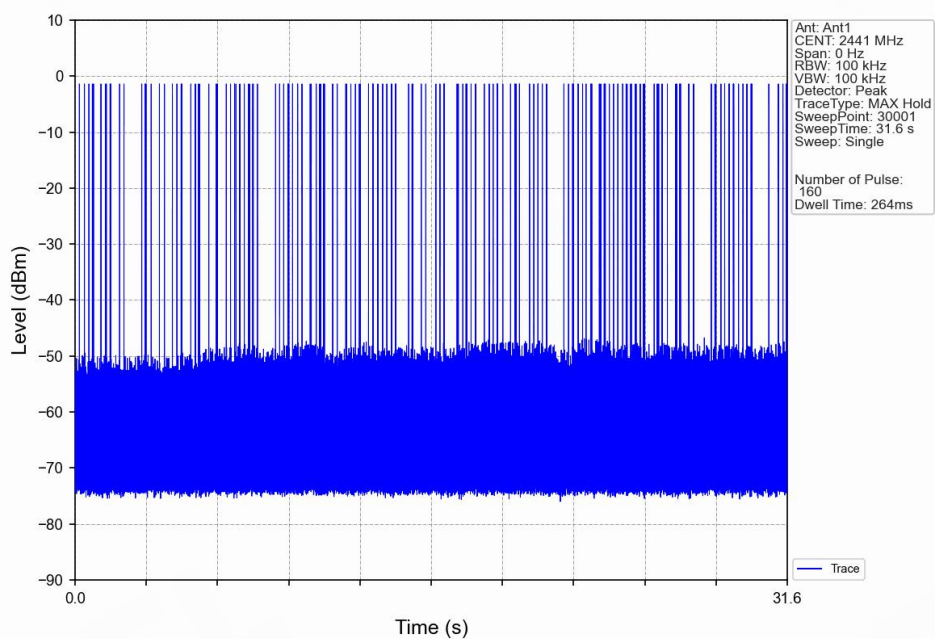


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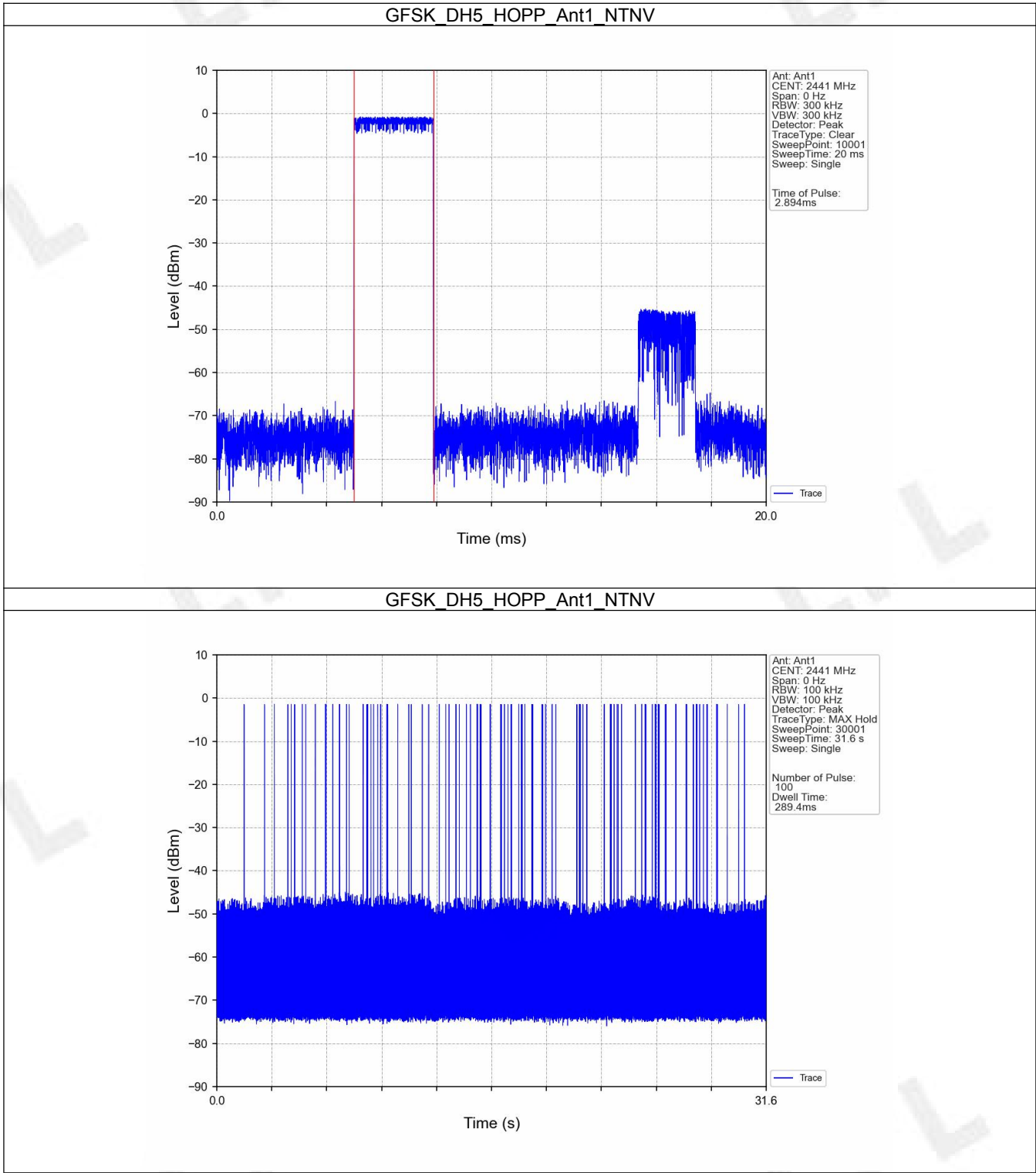
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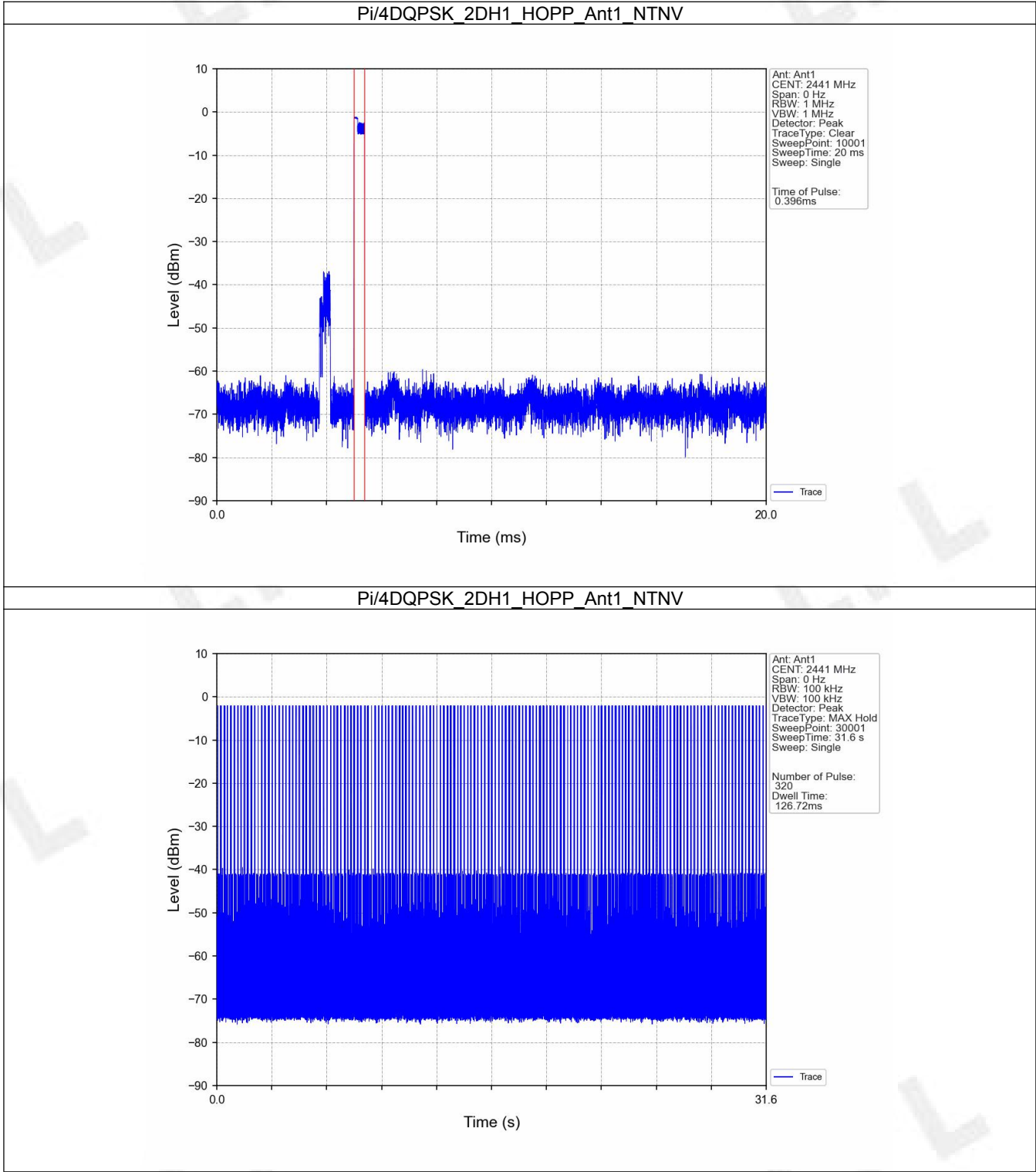
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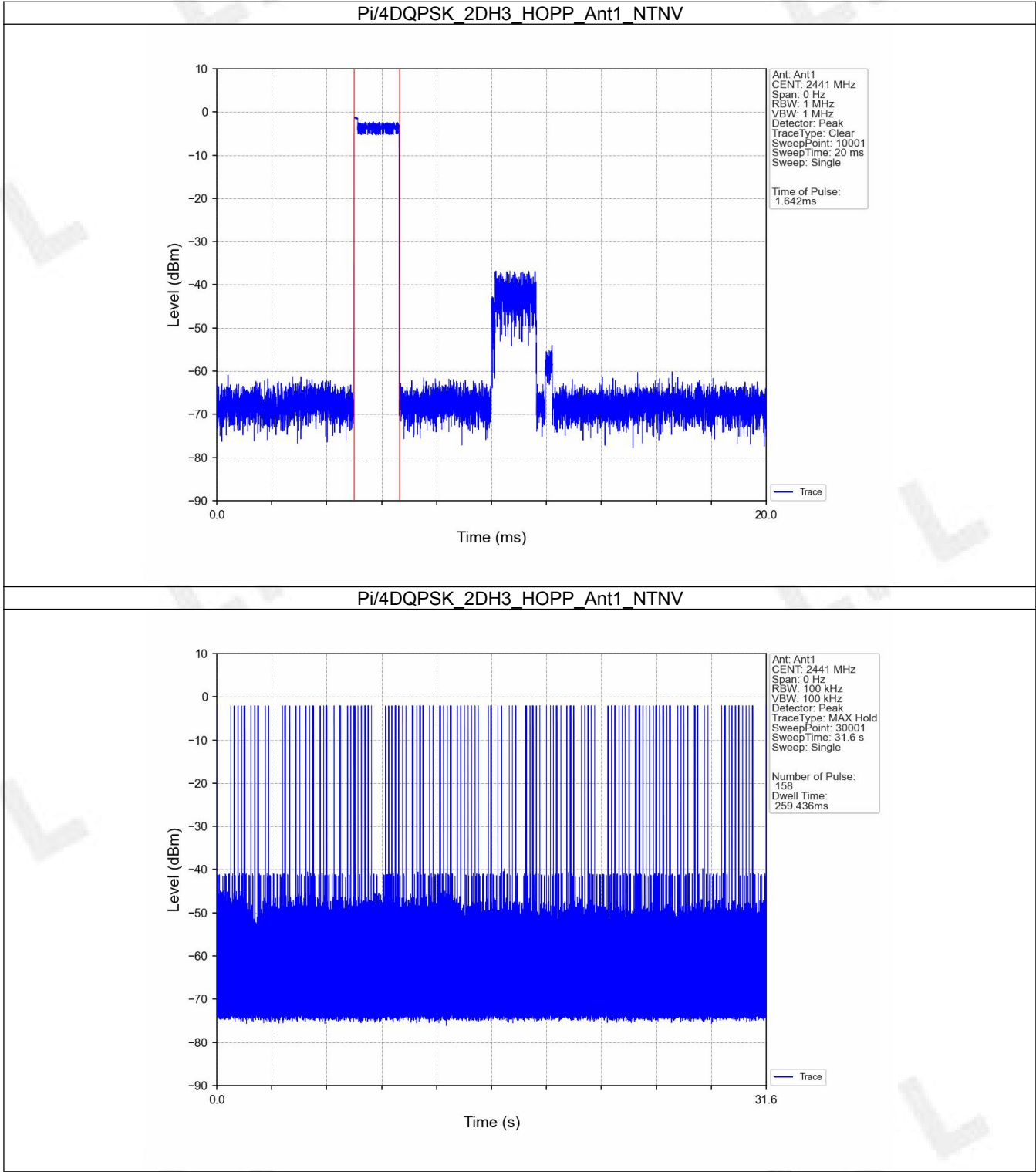
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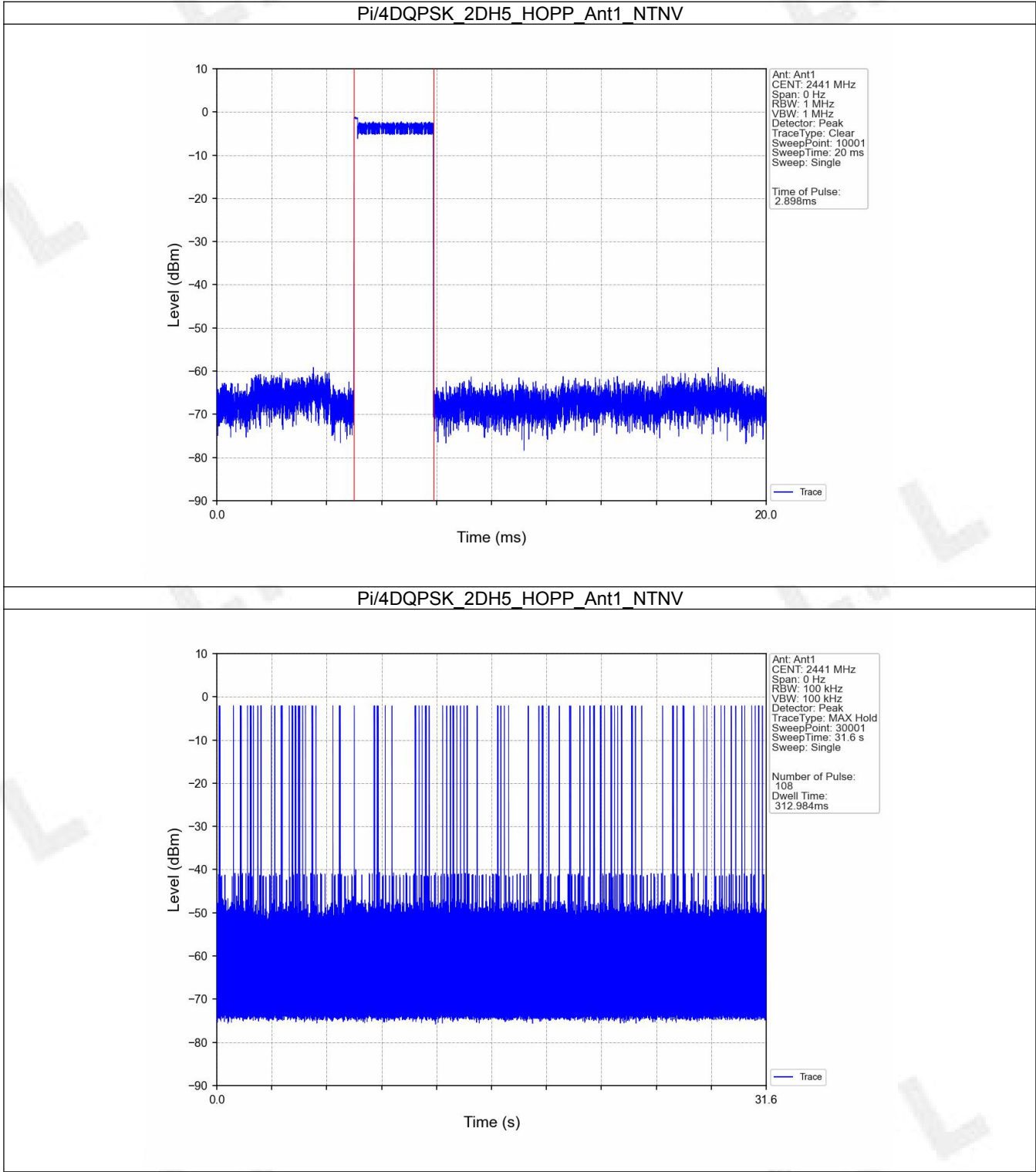
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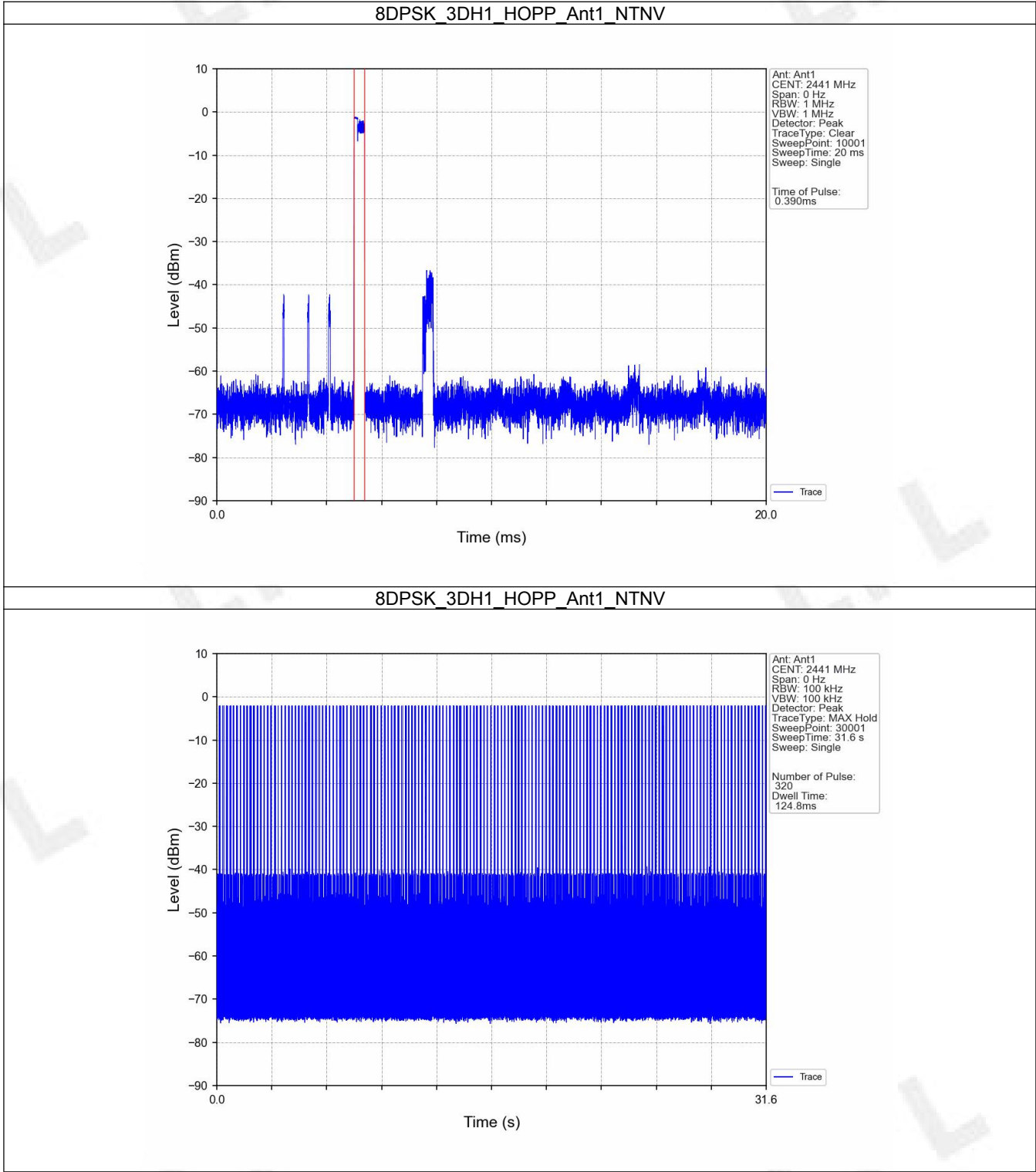
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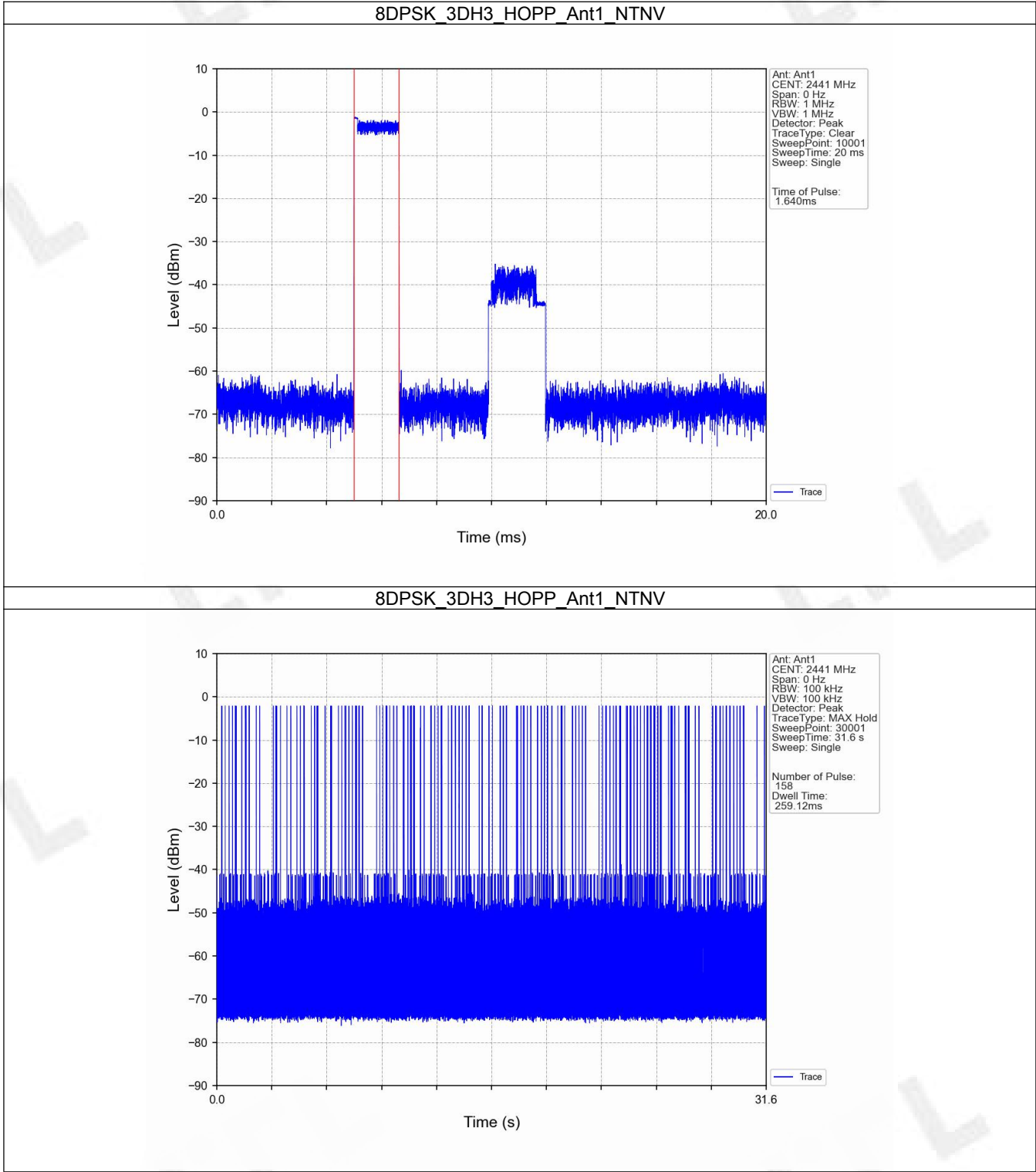
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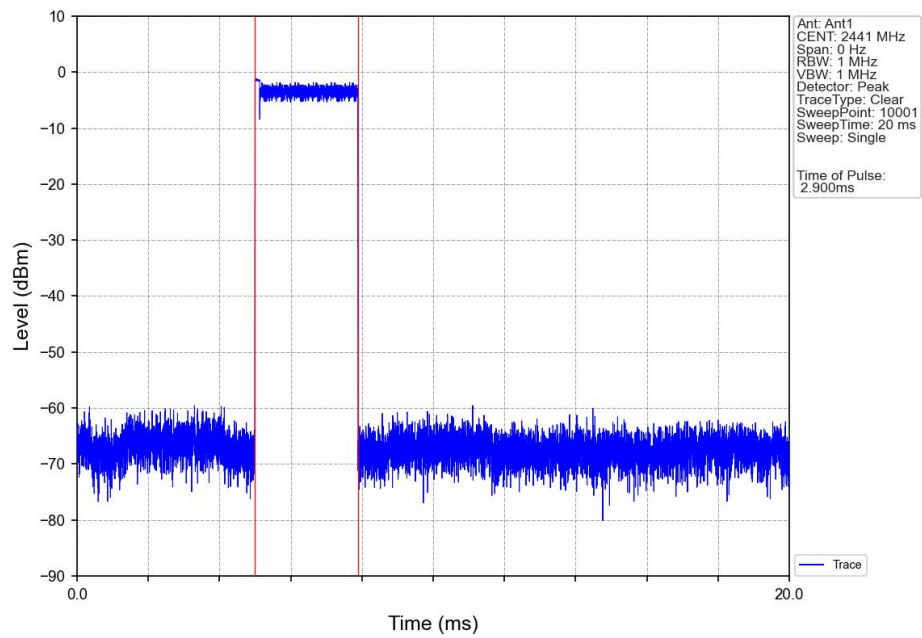


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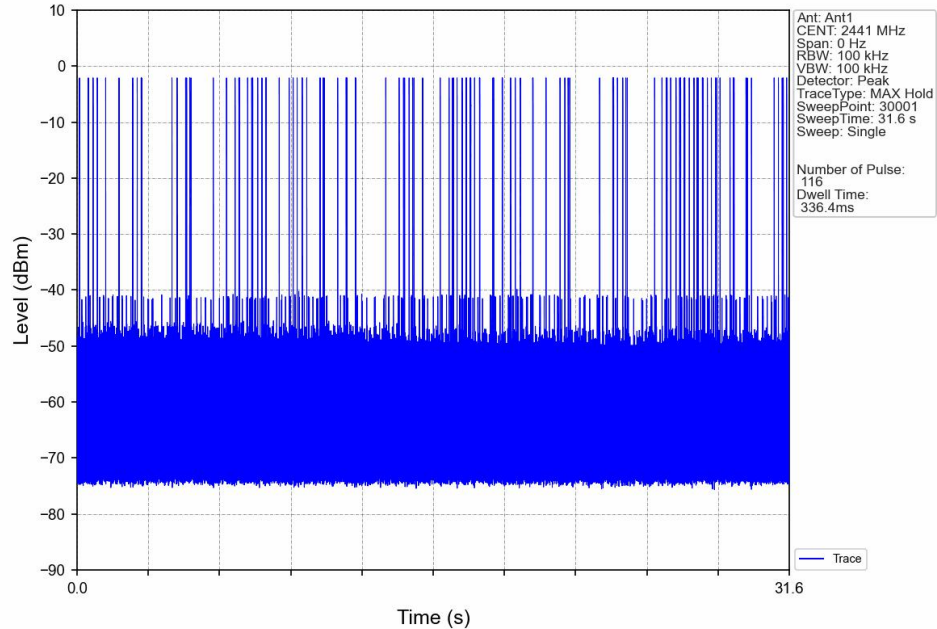


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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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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	-1.56
		2441	DH5	1	-1.41
		2480	DH5	1	-1.63
		HOPP	DH5	1	0.03
					0.03
Pi/4DQPSK	SISO	2402	2DH5	1	-2.10
		2441	2DH5	1	-1.42
		2480	2DH5	1	-1.78
		HOPP	2DH5	1	-0.78
					-0.78
8DPSK	SISO	2402	3DH5	1	-1.94
		2441	3DH5	1	-1.42
		2480	3DH5	1	-1.75
		HOPP	3DH5	1	-0.83
					-0.83

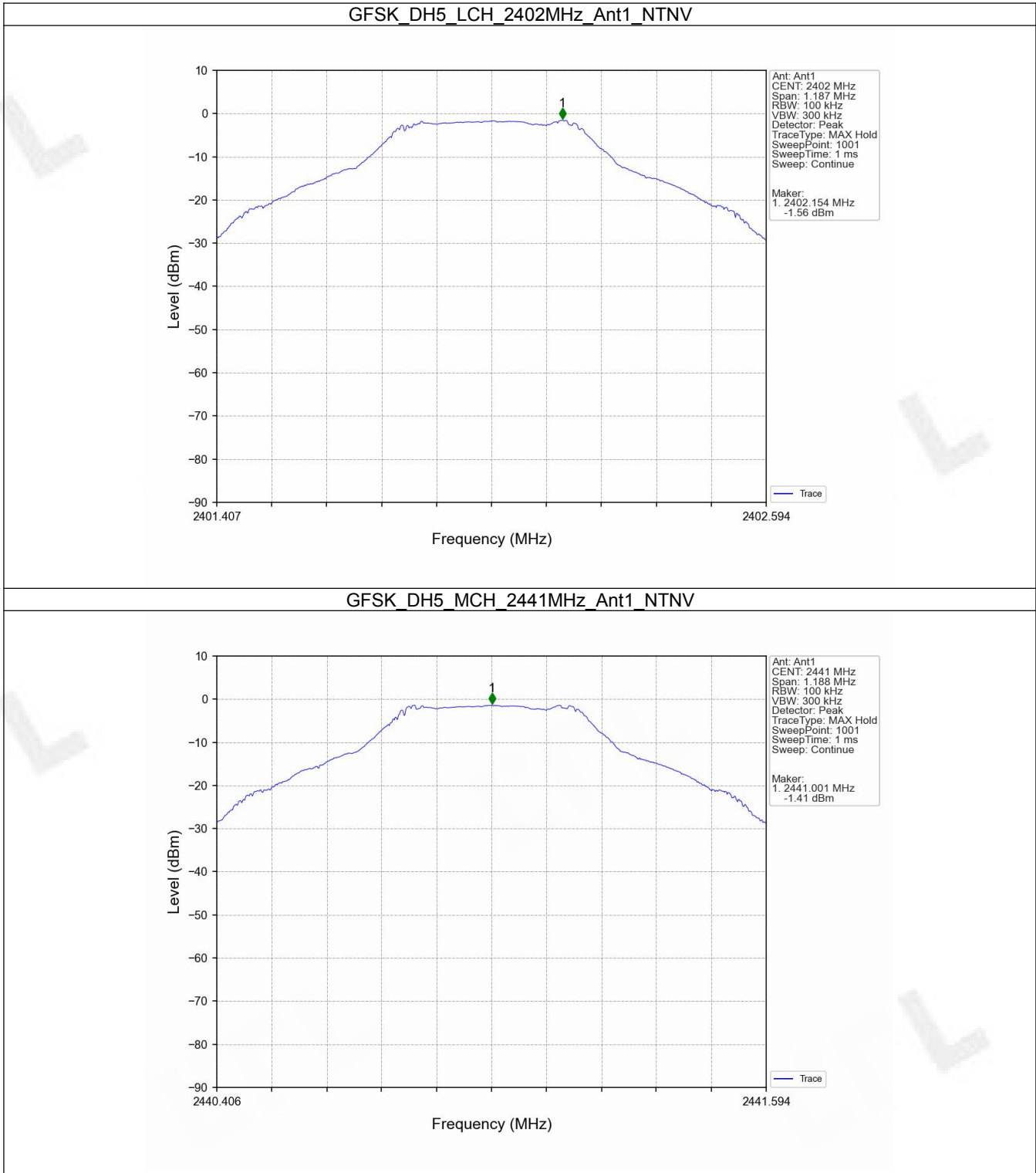
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-1.56	-21.56	Pass
		2441	DH5	1	-1.41	-21.41	Pass
		2480	DH5	1	-1.63	-21.63	Pass
		HOPP	DH5	1	0.03	-19.97	Pass
					0.03	-19.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.10	-22.10	Pass
		2441	2DH5	1	-1.42	-21.42	Pass
		2480	2DH5	1	-1.78	-21.78	Pass
		HOPP	2DH5	1	-0.78	-20.78	Pass
					-0.78	-20.78	Pass
8DPSK	SISO	2402	3DH5	1	-1.94	-21.94	Pass
		2441	3DH5	1	-1.42	-21.42	Pass
		2480	3DH5	1	-1.75	-21.75	Pass
		HOPP	3DH5	1	-0.83	-20.83	Pass
					-0.83	-20.83	Pass

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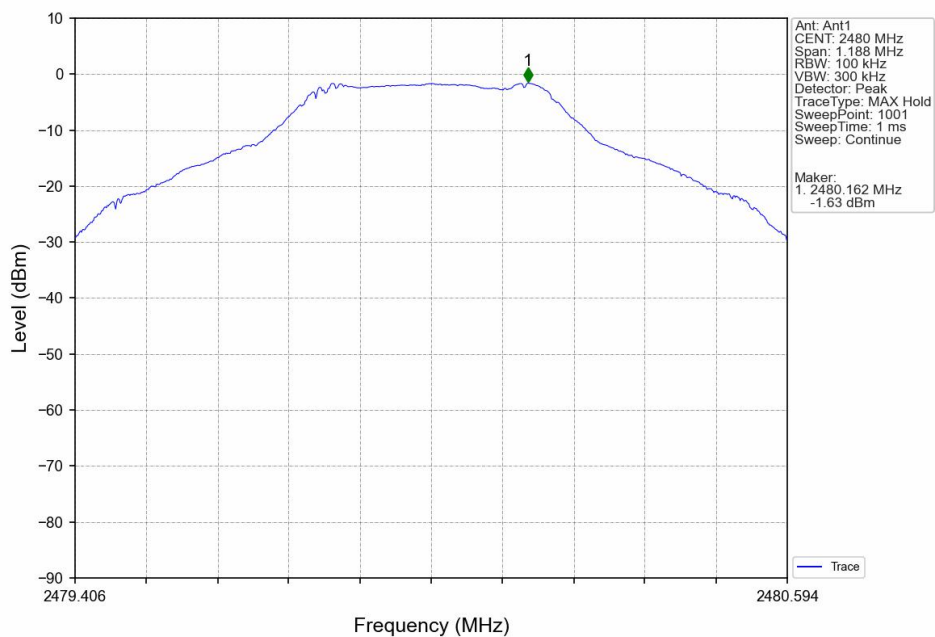
6.2 Test Graph

6.2.1 Ref

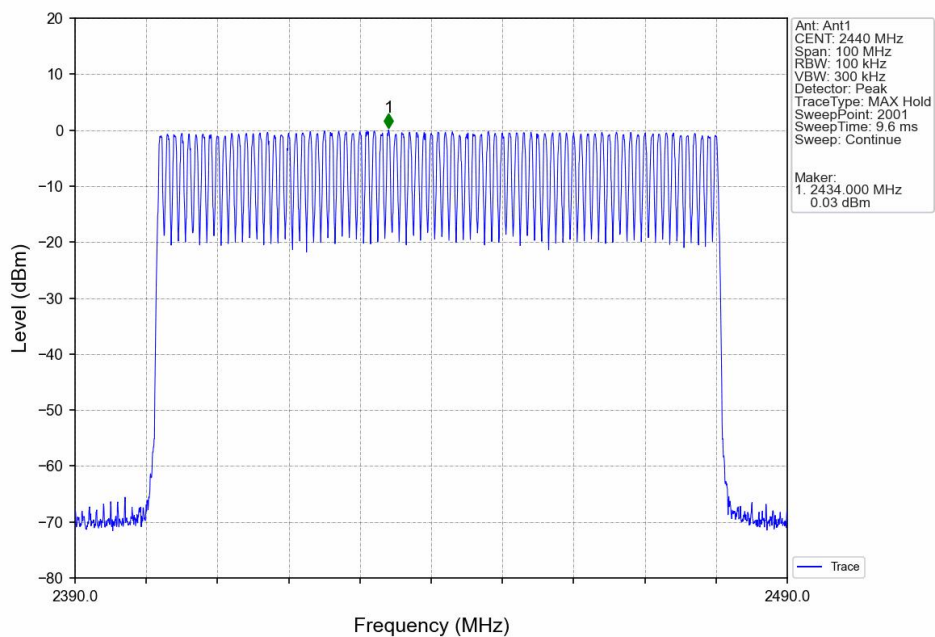


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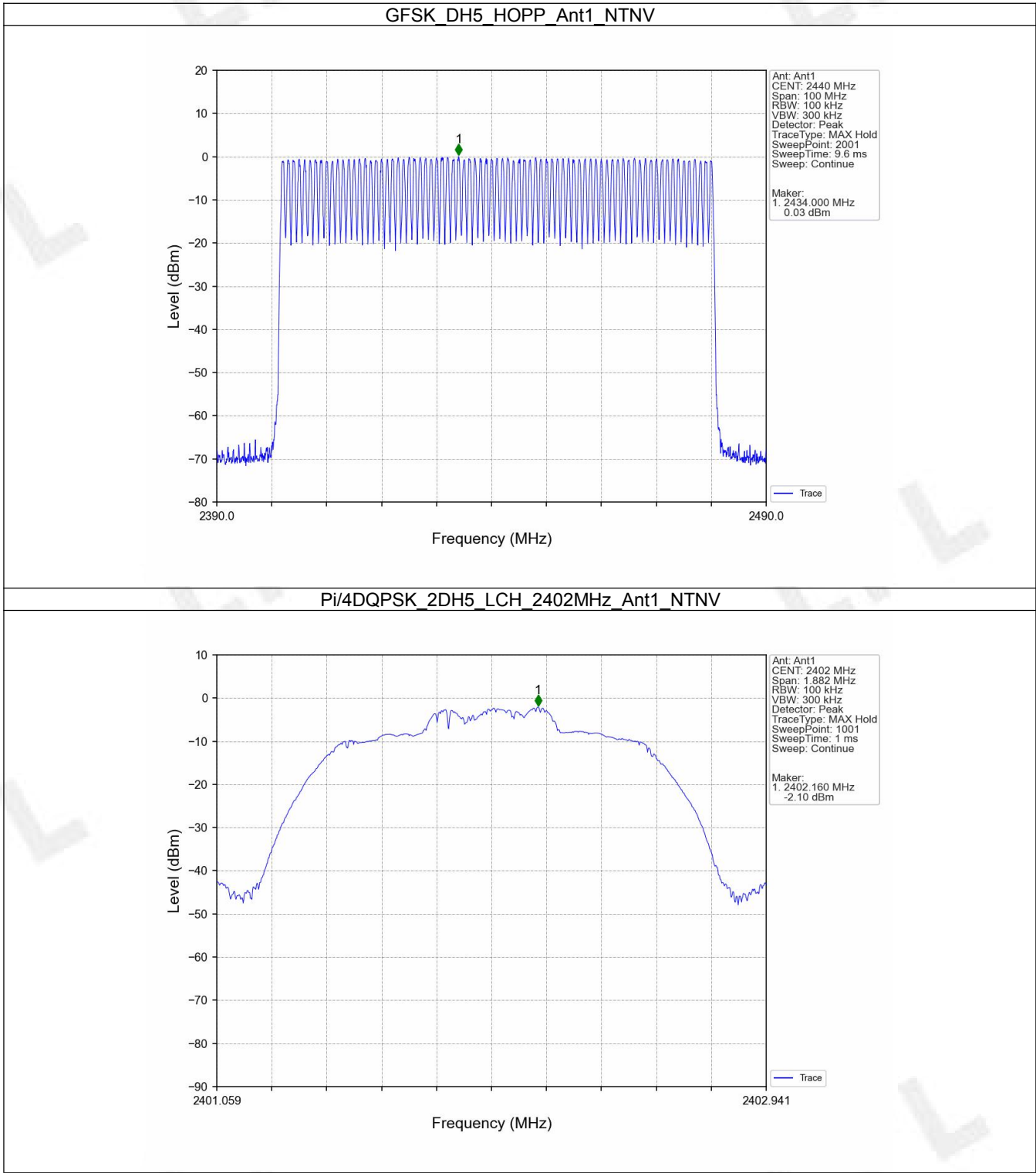
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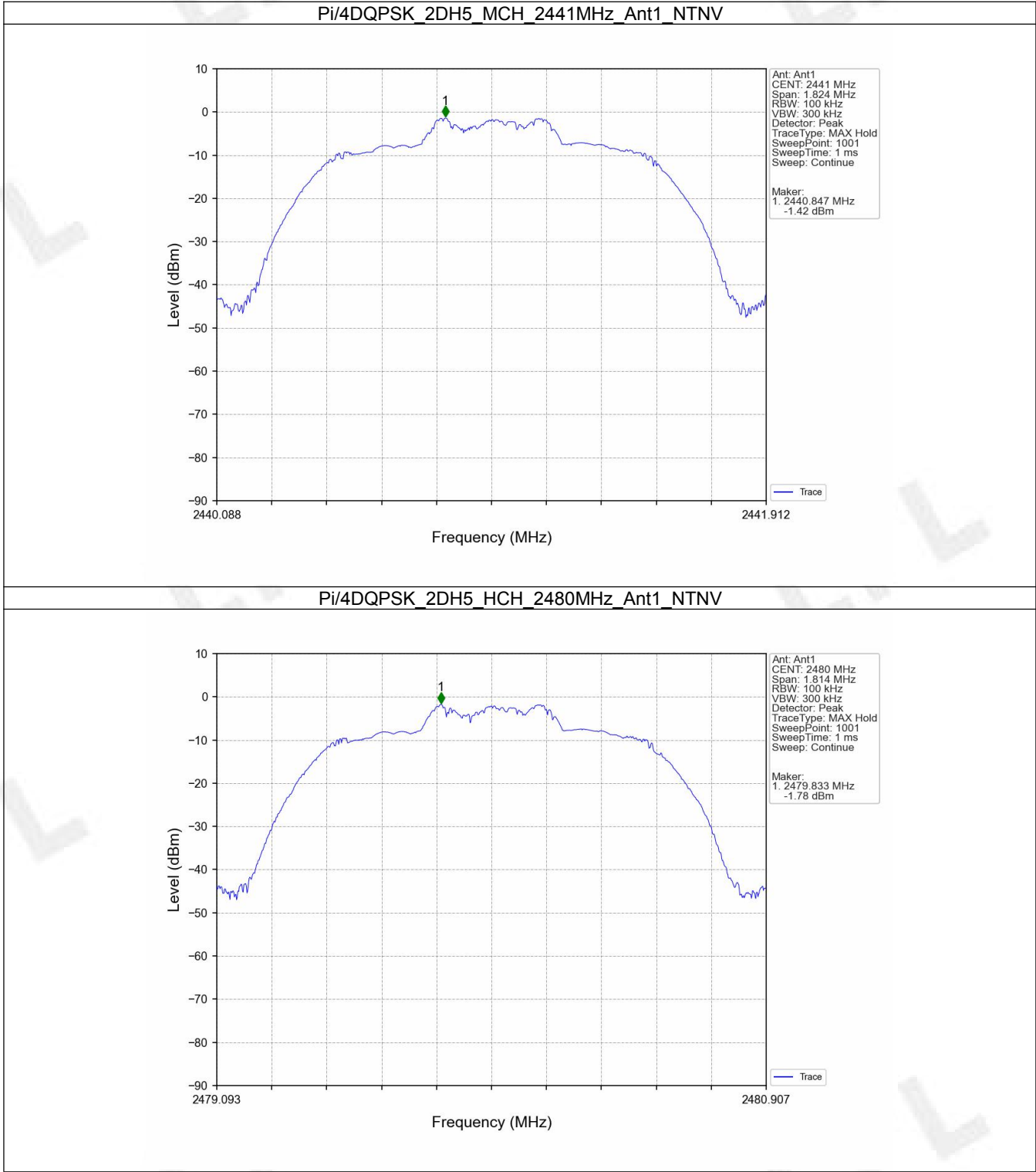
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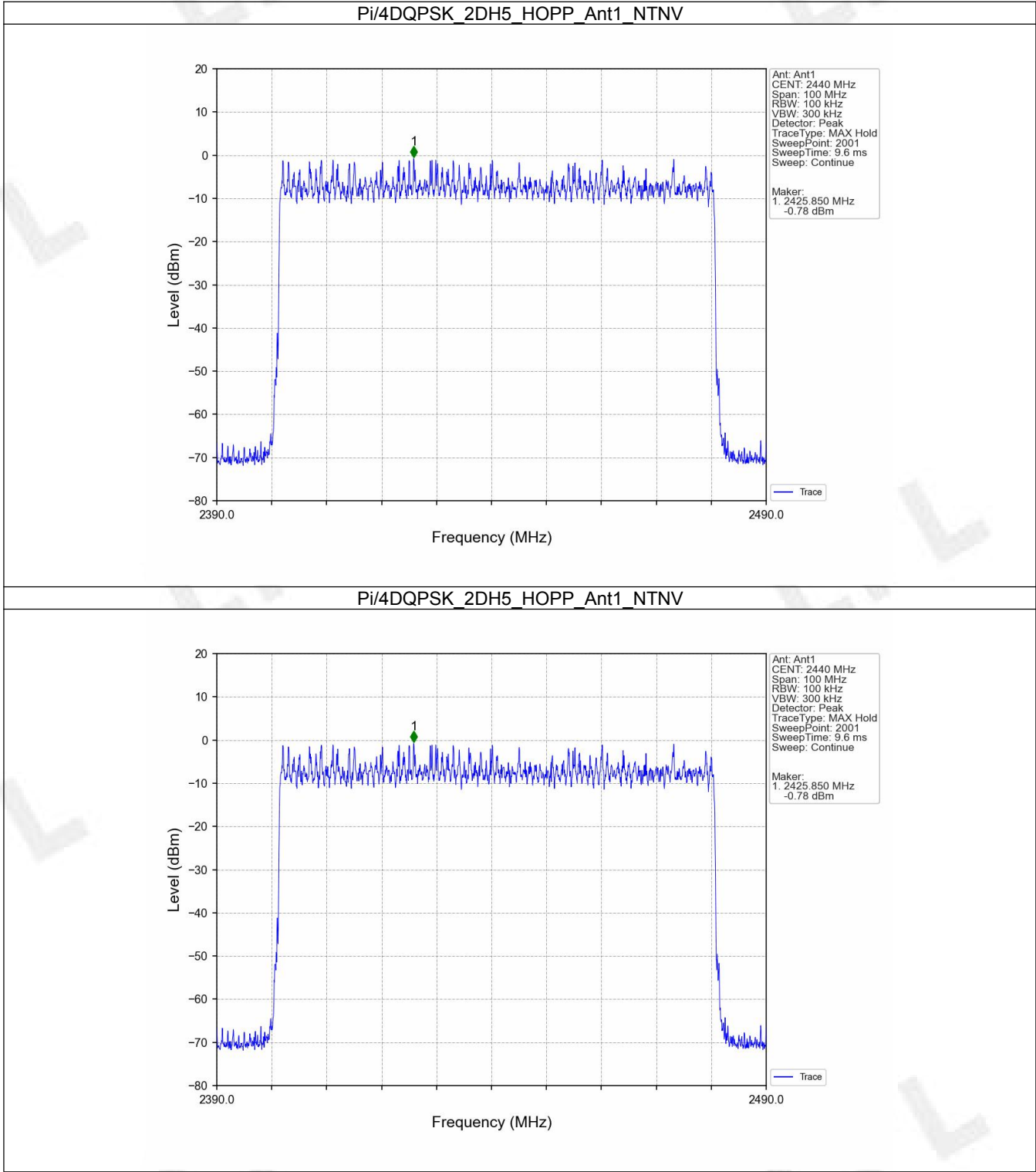
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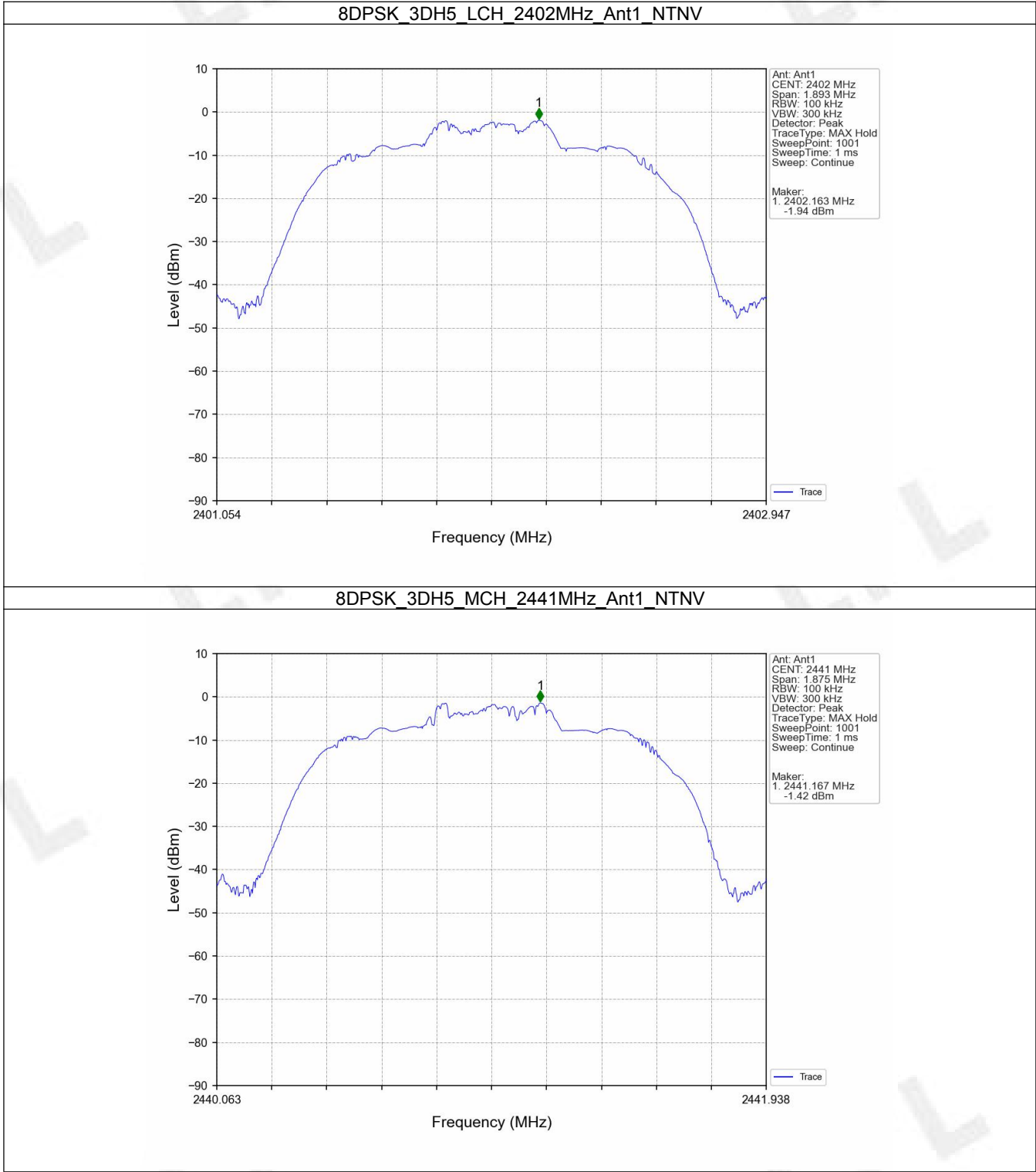
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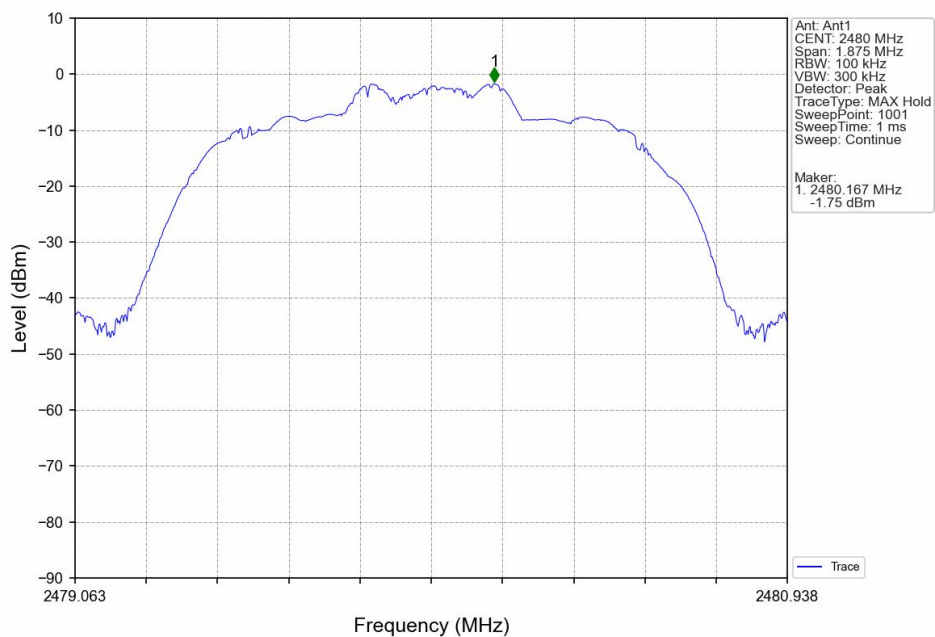


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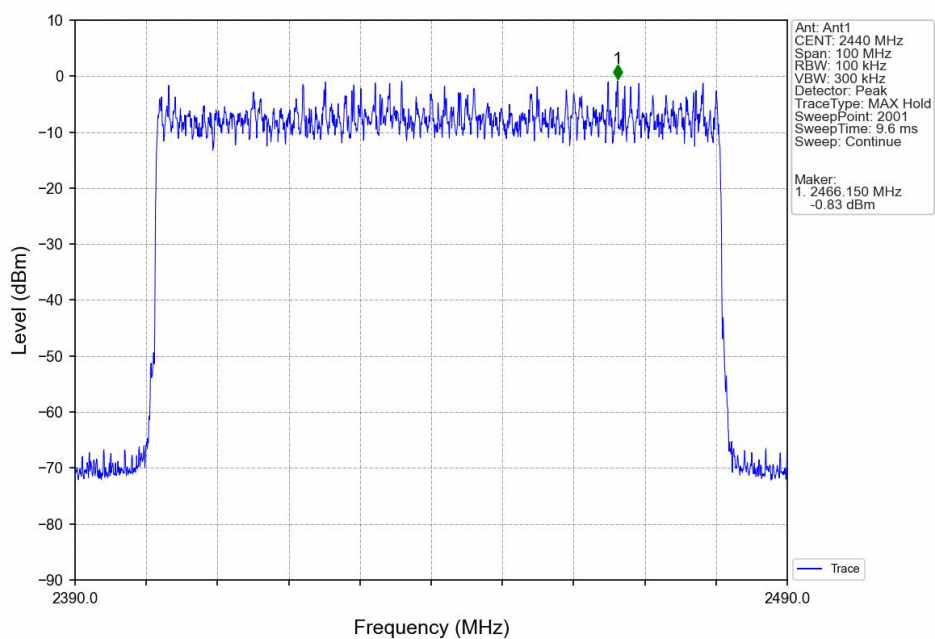


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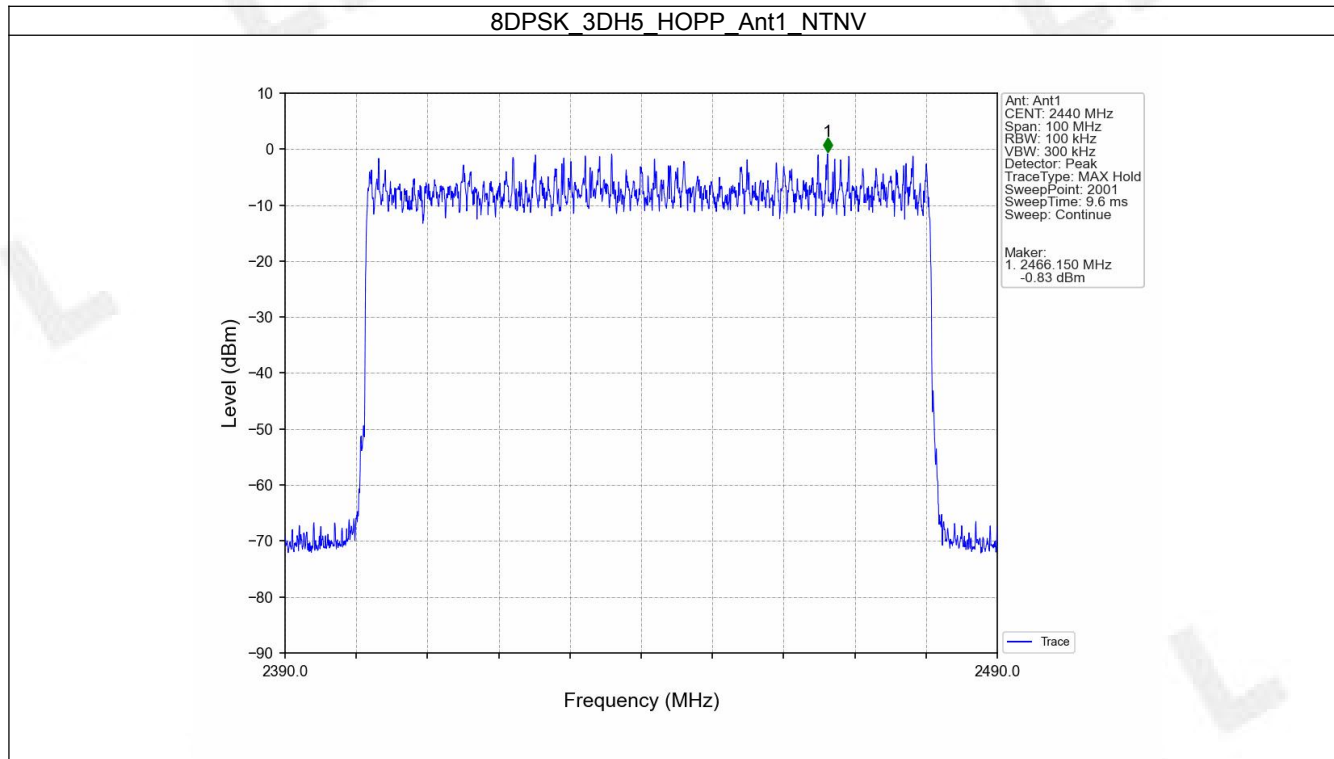
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8DPSK_3DH5_HOPP_Ant1_NTNV



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6.2.2 CSE

