

Appendix RF Test Data for WIFI 5.2G

Company: : CHIGEE TECHNOLOGY CO., LTD.

EUT : Motorcycle Smart Riding System

FCC ID: : 2A95C-AIO5LITE

Model Number : AIO-5 Lite

Report No. : HTT202508200F03

Reviewed By : Heber He

1. Duty Cycle

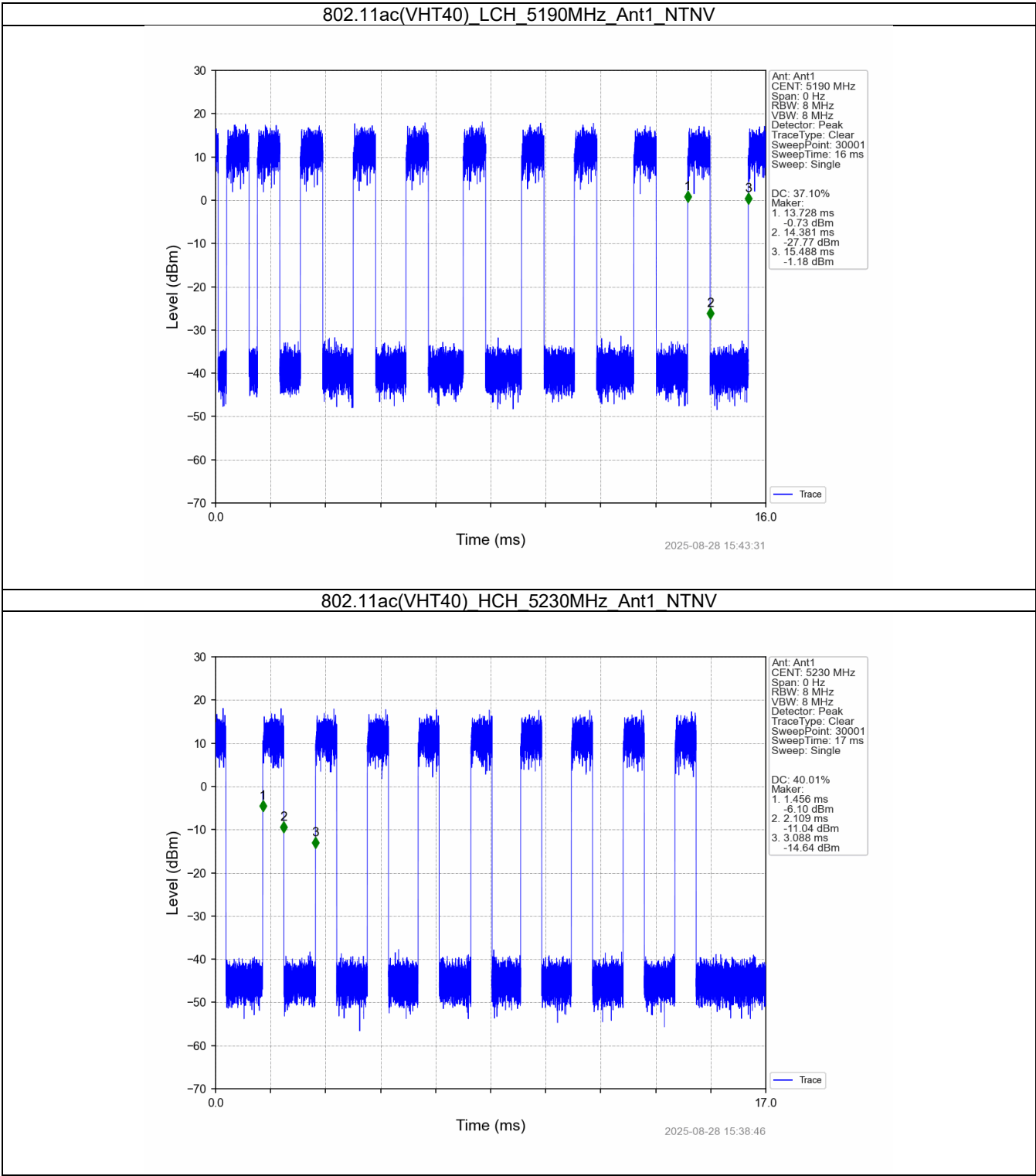
1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT40)	SISO	5190	0.653	1.760	37.10	4.31	35.80
		5230	0.653	1.632	40.01	3.98	2.50

1.2 Test Graph

1.2.1 Ant1



2. Bandwidth

2.1 Test Result

2.1.1 OBW

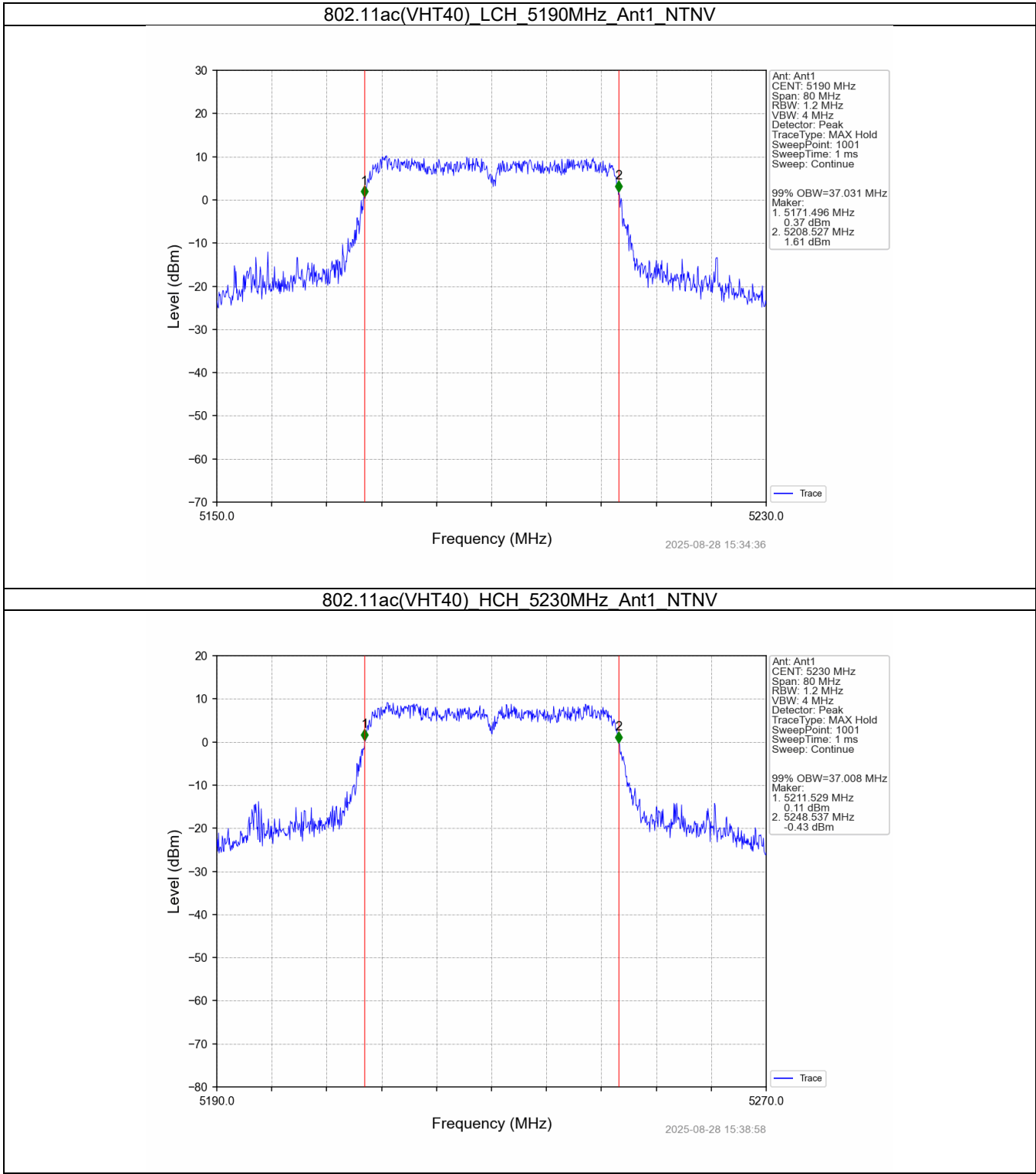
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT40)	SISO	5190	1	37.031	/	Pass
		5230	1	37.008	/	Pass

2.1.2 26dB BW

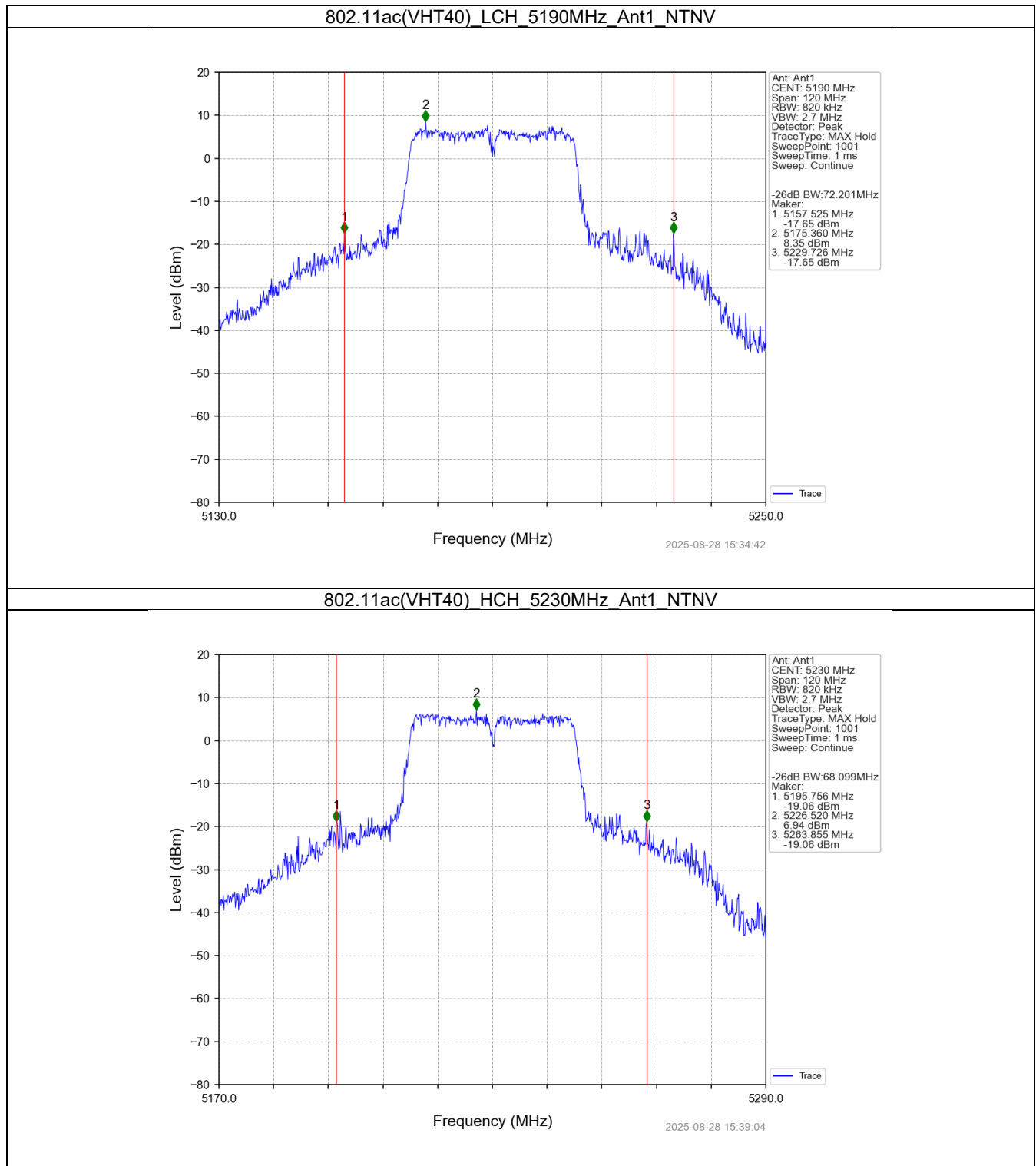
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT40)	SISO	5190	1	72.201	/	Pass
		5230	1	68.099	/	Pass

2.2 Test Graph

2.2.1 OBW



2.2.2 26dB BW



3. Maximum Conducted Output Power

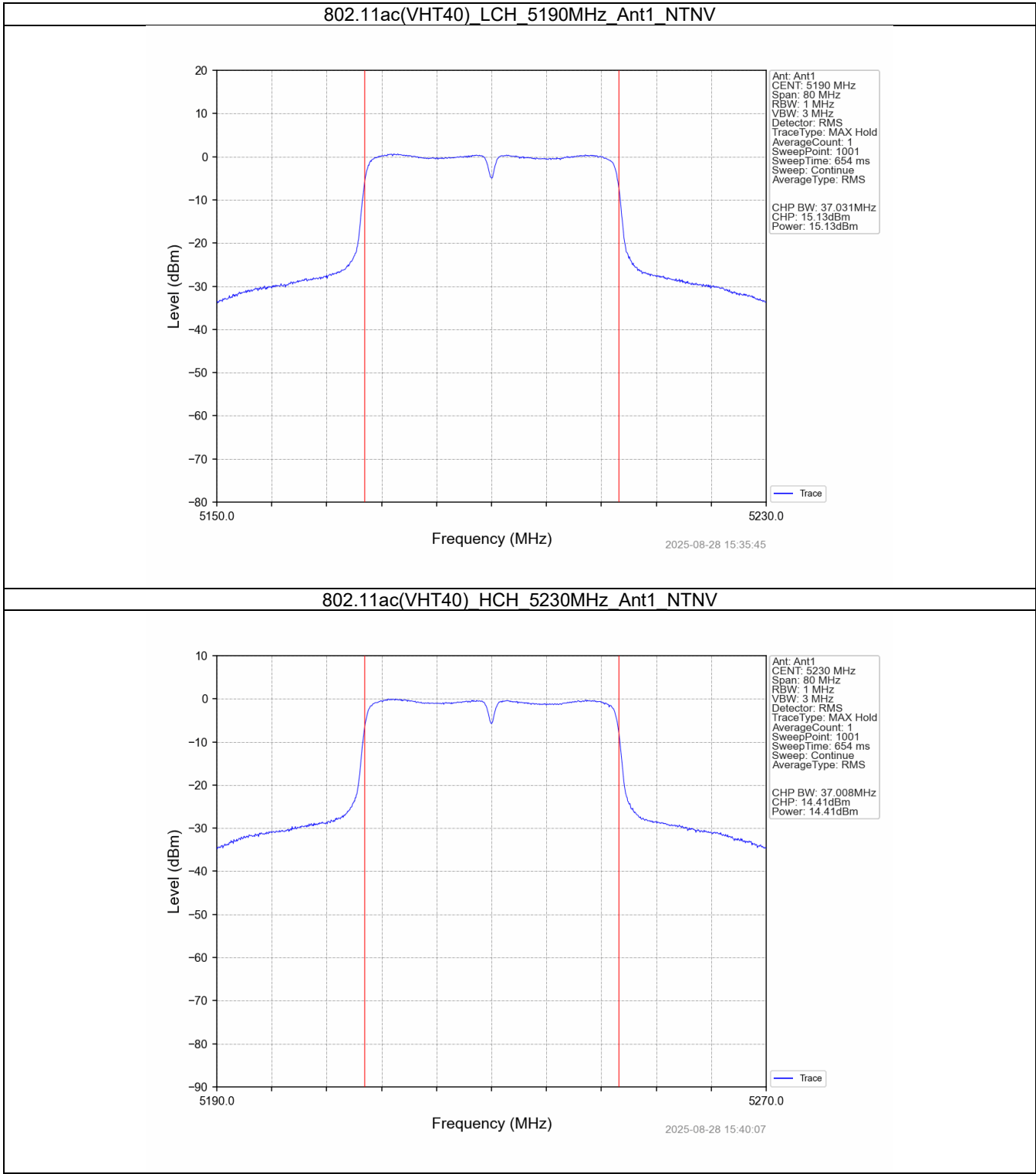
3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11ac (VHT40)	SISO	5190	15.13	<=23.98	Pass
		5230	14.41	<=23.98	Pass

3.2 Test Graph

3.2.1 Power



4. Maximum Power Spectral Density

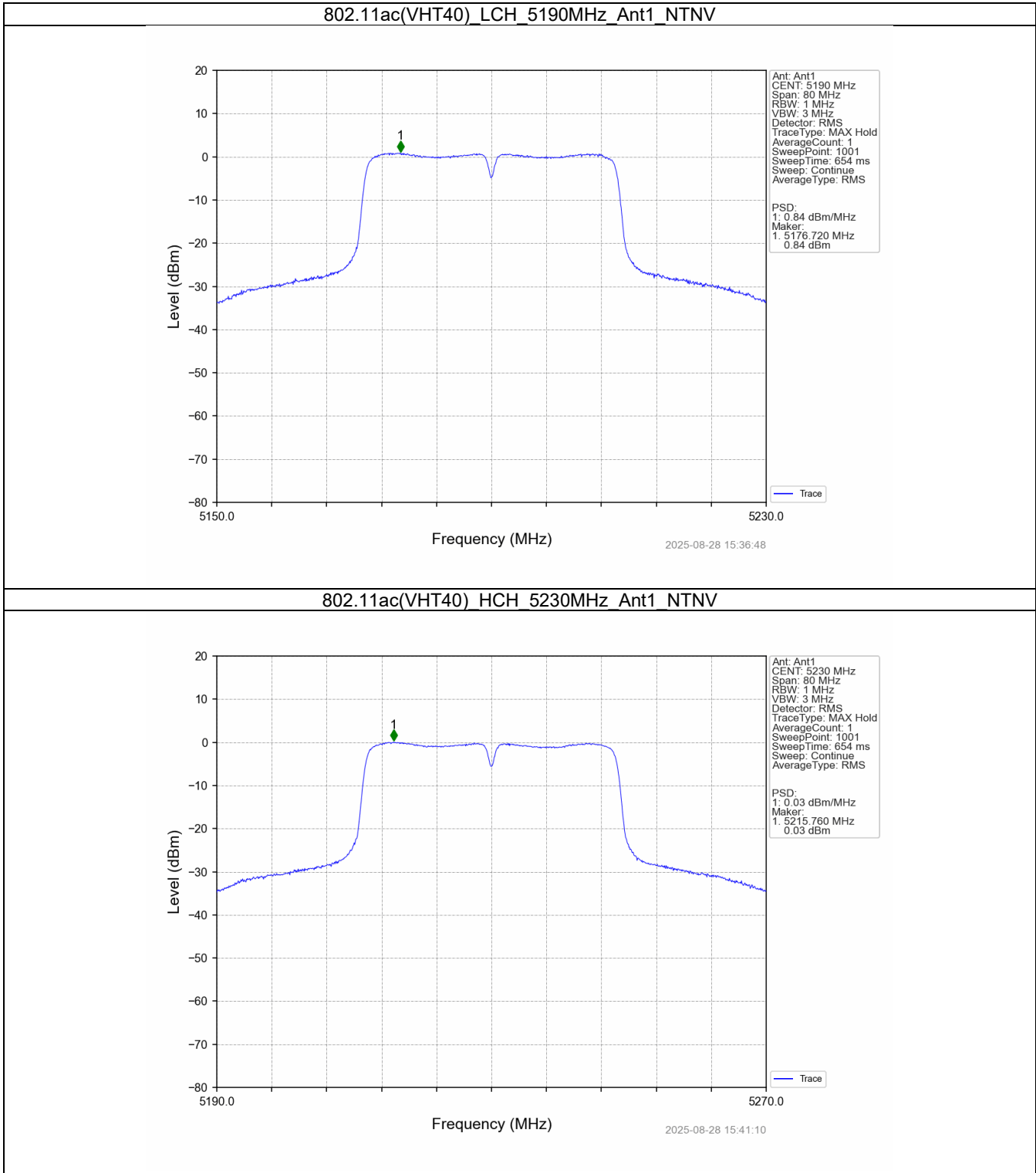
4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11ac (VHT40)	SISO	5190	0.84	<=11	Pass
		5230	0.03	<=11	Pass

4.2 Test Graph

4.2.1 PSD



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11ac (VHT40)	SISO	5190	20	102	5190.040	5150 to 5250	Pass
				120	5189.960	5150 to 5250	Pass
				138	5190.120	5150 to 5250	Pass
			-30	120	5190.080	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5190.040	5150 to 5250	Pass
			10	120	5190.040	5150 to 5250	Pass
			30	120	5190.080	5150 to 5250	Pass
			40	120	5190.000	5150 to 5250	Pass
			50	120	5190.040	5150 to 5250	Pass
		5230	20	102	5230.080	5150 to 5250	Pass
				120	5230.080	5150 to 5250	Pass
				138	5230.080	5150 to 5250	Pass
			-30	120	5230.040	5150 to 5250	Pass
			-20	120	5230.000	5150 to 5250	Pass
			-10	120	5230.080	5150 to 5250	Pass
			0	120	5230.120	5150 to 5250	Pass
			10	120	5230.080	5150 to 5250	Pass
			30	120	5230.080	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass