



RF MEASUREMENT REPORT

FCC ID: HD5-CT70L0
Applicant: Honeywell International Inc
Product: Mobile Computer
Model No.: CT70-L0
Brand Name: Honeywell
FCC Classification: 15E 6 GHz Very Low Power Device (6VL)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407(d)(10))
Result: Complies
Received Date: 2025-07-02
Test Date: 2025-09-10

Reviewed By:

Ada Zhang

Ada Zhang

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.



Revision History

Report No.	Version	Description	Issue Date	Note
R25S1017079-U201	V01	Initial Report	2025-10-14	Valid

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1. General Information

1.1. Applicant

Honeywell International Inc
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory	
	Laboratory Location (Suzhou - Wuzhong)	
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China	
	Laboratory Location (Suzhou - SIP)	
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China	
	Laboratory Location (Suzhou - Wujiang)	
	Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China	
☐	Laboratory Accreditations	
	A2LA: 3628.01	CNAS: L10551
	FCC: CN1166	ISED: CN0001
	Test Site - MRT Shenzhen Laboratory	
	Laboratory Location (Shenzhen)	
☐	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
	Laboratory Accreditations	
	A2LA: 3628.02	CNAS: L10551
	FCC: CN1284	ISED: CN0105
	Test Site - MRT Taiwan Laboratory	
☐	Laboratory Location (Taiwan)	
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
	Laboratory Accreditations	
	TAF: 3261	
	FCC: 291082, TW3261	ISED: TW3261

1.4. Product Information

Product Name	Mobile Computer
Model No.	CT70-L0
Brand Name	Honeywell
EUT Identification No.	20250702Sample#03
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	Main BT/BLE: V6.0 dual mode + 2nd BLE: V5.3 Single mode
NFC Specification	13.56 MHz
Antenna Information	Refer to Section 1.7
Accessories	
Standard Battery	Brand: Honeywell Model: CT70-BTSC Rating: 3.87 Vdc, 4720 mAh, 18.27 Wh
Extend Battery	Brand: Honeywell Model: CT70-BTEC Rating: 3.87 Vdc, 7570 mAh, 29.3 Wh
WPC Battery	Brand: Honeywell Model: CT70-BTWC Rating: 3.87 Vdc, 4720 mAh, 18.27 Wh
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	UNII-5: 5925 ~ 6425 MHz UNII-6: 6425 ~ 6525 MHz UNII-7: 6525 ~ 6875 MHz UNII-8: 6875 ~ 7125 MHz	
Type of Modulation	802.11a: OFDM 802.11ax/be: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11ax: up to 2402 Mbps 802.11be: up to 5764 Mbps	
Channel Puncturing Function	☒ Supported	☐ Unsupported
Support RU	☒ Full RU	☒ Partial RU

1.6. Working Frequencies

802.11a/ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz
25	6075 MHz	29	6095 MHz	33	6115 MHz
37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz
73	6315 MHz	77	6335 MHz	81	6355 MHz
85	6375 MHz	89	6395 MHz	93	6415 MHz
97	6435 MHz	101	6455 MHz	105	6475 MHz
109	6495 MHz	113	6515 MHz	117	6535 MHz
121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz
145	6675 MHz	149	6695 MHz	153	6715 MHz
157	6735 MHz	161	6755 MHz	165	6775 MHz
169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	189	6895 MHz
193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz
229	7095 MHz	233	7115 MHz	--	--

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz
27	6085 MHz	35	6125 MHz	43	6165 MHz
51	6205 MHz	59	6245 MHz	67	6285 MHz
75	6325 MHz	83	6365 MHz	91	6405 MHz
99	6445 MHz	107	6485 MHz	115	6525 MHz
123	6565 MHz	131	6605 MHz	139	6645 MHz
147	6685 MHz	155	6725 MHz	163	6765 MHz
171	6805 MHz	179	6845 MHz	187	6885 MHz
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz	--	--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz
55	6225 MHz	71	6305 MHz	87	6385 MHz
103	6465 MHz	119	6545 MHz	135	6625 MHz
151	6705 MHz	167	6785 MHz	183	6865 MHz
199	6945 MHz	215	7025 MHz	--	--

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz
111	6505 MHz	143	6665 MHz	175	6825 MHz
207	6985 MHz	--	--	--	--

802.11be-EHT320

Channel	Frequency	Channel	Frequency	Channel	Frequency
31	6105 MHz	95	6425 MHz	159	6745 MHz

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	TX Paths	Number of spatial streams	Wi-Fi 0 (TX1) Gain (dBi)	Wi-Fi 1 (TX2) Gain (dBi)	Directional Gain (dBi)	
						For Power	For PSD
Wi-Fi Antenna (Brand: Amphenol, M/N: US542A-16-002-C WLAN_S803, US542A-16-012-C WLAN_S703)							
PIFA	5925 ~ 6425	2	1	1.9	0.7	1.90	4.33
	6425 ~ 6525	2	1	0.7	0.7	0.70	3.71
	6525 ~ 6875	2	1	1.6	2.1	2.10	4.86
	6875 ~ 7125	2	1	1.3	2.6	2.60	4.98
Remark: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.							
If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream follows.							
For power spectral density (PSD) measurements on all devices,							
$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$							
For power measurements on IEEE 802.11 devices,							
Array Gain = 0 dB for $N_{ANT} \leq 4$							

2. Test Configuration

2.1. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB 789033 D02 v02r01
- FCC KDB 987594 D02 v03
- FCC KDB 987594 D04 v03
- FCC KDB 662911 D01 v02r01

2.2. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2025-10-16	SIP-TR1
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2026-08-31	SIP-TR1
Attenuator	MVE	MVE2213	MRTSUE11059	1 year	2026-06-04	SIP-TR1
Power Divider	MVE	MVE8576-1	MRTSUE11127	1 year	2026-08-21	SIP-TR1
RF Cable	Ucwave	UCE500	MRTSUE07406	1 year	2025-09-15	SIP-TR1
RF Cable	Ucwave	UCE500	MRTSUE07401	1 year	2025-09-15	SIP-TR1
RF Cable	Ucwave	UCE500	MRTSUE07407	1 year	2025-09-15	SIP-TR1

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB

5. Test Result

5.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(d)(10)	Transmit Power Control (TPC) mechanism	Conducted	Pass

Note: The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer.

The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

5.2. Transmit Power Control (TPC) mechanism Measurement

5.2.1. Test Limit

Very low power devices operating in the 5.925-7.125 GHz band shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

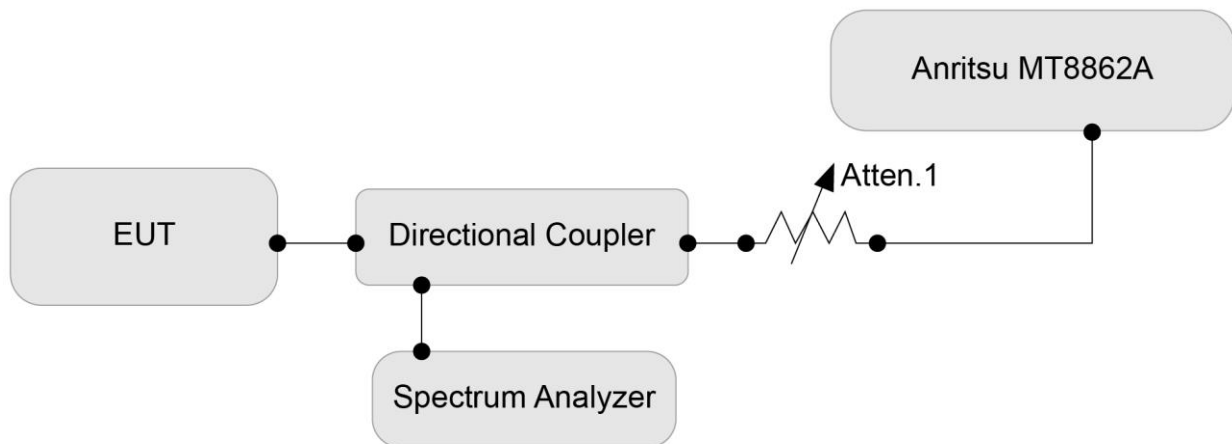
5.2.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - F

5.2.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26 dB EBW of the signal.
3. RBW = 1 MHz
4. VBW $\geq 3 \times$ RBW
5. Number of sweep points $\geq 2 \times$ (span / RBW)
6. Detector = Power averaging (RMS)
7. Sweep time = Auto
8. Trigger = Free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. If duty cycle $< 98\%$, add $10\log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10\log(1/0.25) = 6$ dB if the duty cycle is 25%; If duty cycle $\geq 98\%$, no need to add $10\log(1/x)$.

5.2.4. Test Setup



This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and MT8862A Device for connection as shown in figure above.
2. Set MT8862A with high level (noise free spectral environment, high RSSI simulation).
3. Establish connection between EUT and MT8862A Device.
4. Capture PSD on Spectrum analyzer.
5. Adjust MT8862A to set low level (noisy spectral environment, low RSSI simulation).
6. Capture PSD on Spectrum analyzer.
7. Compare the highest PSD captured in step 4 to the highest PSD on step 6.

5.2.5. Test Result

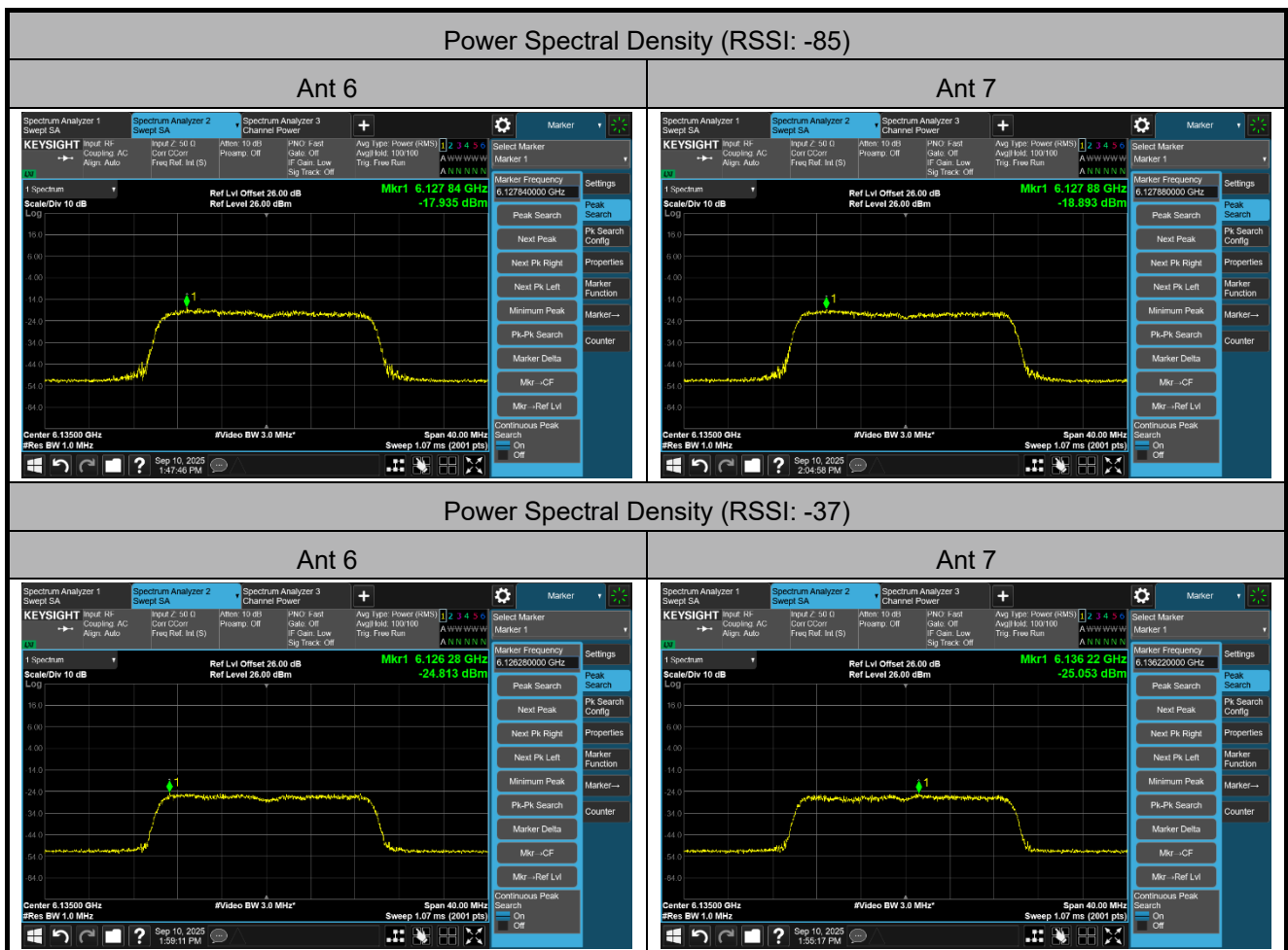
Refer to Appendix A.1.

Appendix A - Test Result

A.1 Transmit Power Control (TPC) mechanism Test Result

Test Site	SIP-TR1	Test Engineer	Alan Yu
Test Date	2025-09-10		

CH	Freq. (MHz)	Directional Gain for PSD (dBi)	Duty Cycle (%)	RSSI (dBm)	AVPSD (dBm/MHz) Ant 6	AVPSD (dBm/MHz) Ant 7	Total PSD (dBm/MHz)	EIRP Density (dBm/MHz)	Max EIRP Density (dBm/MHz)
37	6135	4.33	45.48	-85	-17.935	-18.893	-11.956	-7.626	-5
			45.48	-37	-24.813	-25.053	-18.499	-14.169	-11



Appendix B - EUT Photograph

Refer to "R25S1017079-UI & R25S1017079-UE" file.

_____ The End _____