CYGNETT PTY LTD

TEST REPORT

SCOPE OF WORK
SAR Assessment– CY4058PPWIR, CY4059PPWIR,CY4060PPWIR,CY4061PPWIR

REPORT NUMBER
220415036SZN-002

ISSUE DATE **[REVISED DATE]**
17 May 2022 [----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.
Tel: (86 755) 8601 6288
Fax: (86 755) 8601 6751
www.intertek.com

Intertek No.: 220415036SZN-002

Test Report

Applicant	:	CYGNETT PTY LTD Level 1, 858 Lorimer Street, Port Melbourne VIC 3207 Australia
Sample Description		
Product	:	PowerBaseIII 15W Wireless Charger
Model No.	:	CY4058PPWIR, CY4059PPWIR,CY4060PPWIR,CY4061PPWIR
Electrical Rating	:	USB-C Input:5.0V-3.0A(15.0W),9.0V-2.22A(20.0W),12.0V-1.67A(20.0W) Wireless Output:5.0W,7.5W,10.0W,15.0W(15.0W Max) Total Output:15.0W Max
Date Received	:	15 April 2022
Date Test Conducted	:	15 April 2022 to 29 April 2022
Test Requested	:	Test for compliance with CFR 47 part 1
Test Method	:	Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

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Prepared and Checked By:

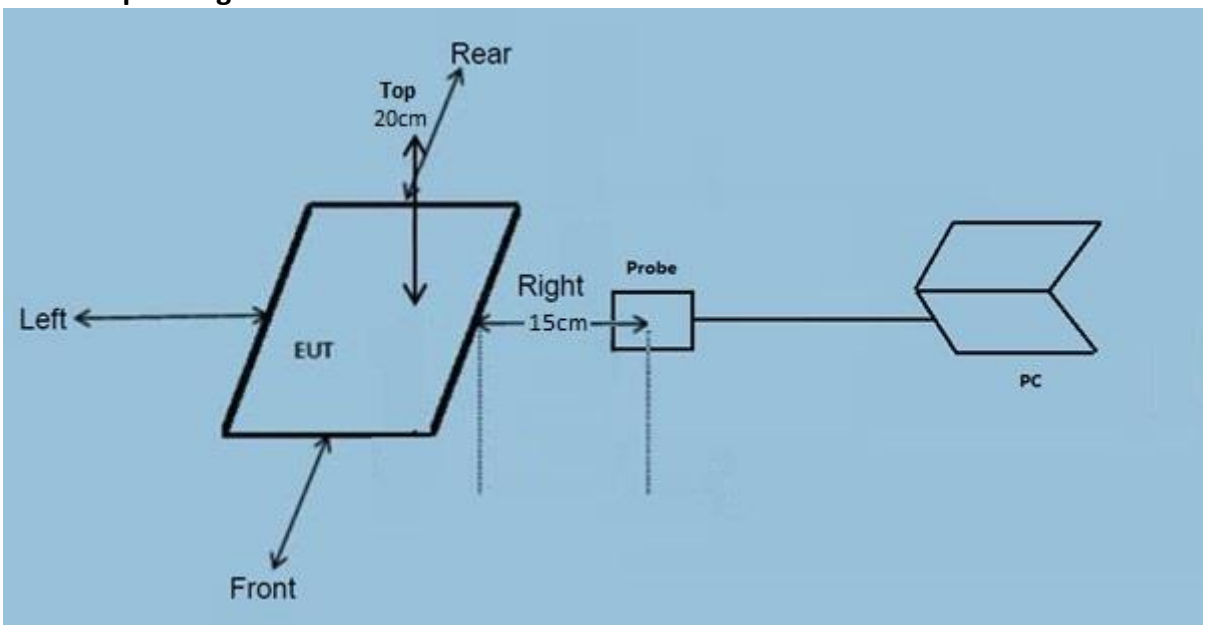
Karot Huang
Assistant Engineer

Approved By:

Peter Kang
Senior Technical Supervisor
Date: 17 May 2022

Test Report

Test Setup Configuration



Note
- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ186-04	Electric and Magnetic Field Analyzer	Narda	EHP-50F	510WY90119	2021-07-20	2022-07-20

This product was tested in the following configuration:

Description	Manufacturer	Detail
ZMI USB-C Power Adapter	Nanjing Cuk Electronics Technology Co., Ltd. (Provided by Client)	Model: TY0500200A1mn Input: 100-240Vac 50/60Hz 0.4A Output: 5Vdc 3A, 9Vdc 3A, 12Vdc 3A, 15Vdc 3A, 20Vdc 3.25A
Adjustable Load	NIL (Provided by Client)	/
Mobile Phone	Samsung	S7 Golden

Justification

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power

The EUT was powered by an adapter with 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. All cases (5W, 7.5W, 10W, 15W) have been tested, only the worst-case data was shown in this report.

Reference Limit:
Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Test Result:
During test, the mobile handset is being charged.
Worst Case Operating Mode: Mode 2
Test Result for wireless power transmit part:
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.110-0.205	1% Battery Level	0.5515	0.5524	0.5499	0.5507	0.5495	1.63
0.110-0.205	50% Battery Level	0.5508	0.5518	0.5491	0.5489	0.5485	1.63
0.110-0.205	99% Battery Level	0.5502	0.5511	0.5474	0.5481	0.5476	1.63
0.110-0.205	Stand-by	0.5497	0.5504	0.5468	0.5472	0.5461	1.63

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.110-0.205	1% Battery Level	2.2878	2.1209	2.1344	2.1246	2.1821	614
0.110-0.205	50% Battery Level	2.1872	2.1146	2.1226	2.1192	2.1776	614
0.110-0.205	99% Battery Level	2.1803	2.0996	2.1187	2.1099	2.0874	614
0.110-0.205	Stand-by	1.9864	1.9631	1.9916	1.8754	1.7684	614

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