



# **CERTIFICATION TEST REPORT**

**Report Number. :** 12743821-E4V2

**Applicant :** PI INC  
1111 BAYHILL DR  
SUITE 235  
SAN BRUNO, CA 94066, U.S.A.

**Model :** SOURCE

**FCC ID :** 2ASP901EH1

**EUT Description :** WIRELESS CHARGER

**Test Standard(s) :** FCC 47 CFR PART 1 SUBPART I  
FCC 47 CFR PART 2 SUBPART J

**Date Of Issue:**  
May 16, 2019

**Prepared by:**  
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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	5/13/2019	Initial Issue	--
V2	5/16/2019	Updated report to address TCB's question	Tina Chu

## TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS .....	4
2. TEST METHODOLOGY .....	5
3. REFERENCES .....	5
4. FACILITIES AND ACCREDITATION .....	5
5. DESCRIPTION OF EUT .....	5
6. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS .....	6
6.1. FCC .....	6

## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** PI INC  
1111 BAYHILL DR  
SUITE 235  
SAN BRUNO, CA 94066, U.S.A.

**EUT DESCRIPTION:** WIRELESS CHARGER

**MODEL NUMBER:** SOURCE

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 1 SUBPART I & PART 2 SUBPART J	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For  
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UL Verification Services Inc.

Prepared By:



TINA CHU  
SENIOR PROJECT ENGINEER  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

SAR test exclusion in accordance with KDB 447498.

## 3. REFERENCES

All measurements were made as documented in test report UL Verification Services Inc. Document 12743821-E3 for operation in the 2.4 GHz.

Antenna gain data is excerpted from the applicable test report.

## 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

## 5. DESCRIPTION OF EUT

The EUT is a Qi compatible wireless charger for cellphone. Up to 4 devices can be charged through wireless charging + 2 High Power USB charging ports. Total 8 coils (4 pairs of Tx/Rx). Operating Frequency = 113kHz-230kHz.

## 6. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

### 6.1. FCC

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances

≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})] \leq 3.0$ , for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

SAR Exclusion Calculations Table for Portable Devices (separation distance < 20cm)

Antenna	Tx	Frequency (MHz)	Avg Output power <sup>Note 1</sup>		Separation distances (mm)	Threshold Value
			dBm	mW		
Main	2.4G Wi-Fi	2437	-12.45	0	0	0.0

Note 1: The listed power is the maximum declared maximum average output power including manufacturing tolerance.

Conclusion:

The computed value is <3.0; therefore, 2.4G Wi-Fi qualifies for Standalone SAR test exclusion.

## END OF REPORT