



Health TEST REPORT

TEST Report

EN62311: 2008

Prepared for :

Product: Power Bank

Trade Name:

Model Name: P322.14

Date of Test: September 10, 2019 - September 17, 2019

Date of Report: September 17, 2019

Report Number: SIT190906230801HR

Prepared By :

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Applicant :
Address :
Manufacturer :
Address :
EUT Description : Power Bank
(A) Model No. :
(B) Serial Model : P322.14
Micro Input: 5V---2A, 9V---2A; Type-C Input: 5V---2A, 9V---2A;
Type-C Output: 5V---3A, 9V---2A, 12V---1.5A;
(C) Power Supply : Type-A Output: 5V---3A, 9V---2A, 12V---1.5A;
WIRELESS Output: 10W/7.5W/5W.

Standards..... EN 62311:2008

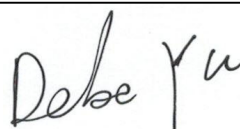
This device described above has been tested by SIT LAB, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... **Pass**

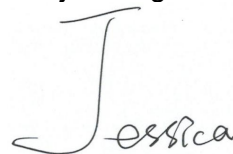
Date of Test: September 10, 2019 - September 17, 2019

Prepared by:



Project Engineer

Reviewed by:



Project Supervisor

Approved by:



Technical Director

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1. GENERAL INFORMATION

1.2. GENERAL DESCRIPTION OF EUT

Equipment	Power Bank	
Model Name.		
Serial Model	P322.14	
Model Difference	All types of circuits and RF modules are the same, this report only test mode name: H100DW.	
Product Description	The EUT is Power Bank:	
	Bit Rate of Transmitter	N/A
	Antenna Designation:	internal antenna
	Antenna Gain(Peak)	3 dBi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. Note: This radio test report only applies for wireless, For Other transmitters is tested and reported in another radio test report.	
Channel List	Refer to below	
Power	Micro Input:5V $\pm$ 2A, 9V $\pm$ 2A; Type-C Input: 5V $\pm$ 2A, 9V $\pm$ 2A; Type-C Output: 5V $\pm$ 3A, 9V $\pm$ 2A, 12V $\pm$ 1.5A; Type-A Output: 5V $\pm$ 3A, 9V $\pm$ 2A, 12V $\pm$ 1.5A; WIRELESS Output:10W/7.5W/5W.	
Hardware Version	N/A	
Software Version	N/A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

IEEE 802.11b/g/n HT20/Nht40: Thirteen channels are provided to the EUT.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Test Frequency List

Modulation Type	Test Frequency					
	Lowest		Middle		Highest	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11b	1	2412	7	2442	13	2472
802.11g	1	2412	7	2442	13	2472
802.11n(H20)	1	2412	7	2442	13	2472
802.11n(H40)	3	2422	7	2442	11	2462

2. EN 62311 REQUIREMENT

2.1. GENERAL INFORMATION

The essential requirements of Directive 99/5/ec in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure, EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)

2.2. LIMIT

Exposure limits	SAR Limit(W/kg)	
	General population/uncontrolled exposure environment	Occupational/controlled exposure environment
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial peak(averaged over any 1g of tissue)	2.0	10
Spatial peak(hands/wrists/feet/ankles averaged over 10g)	4.0	20.0

3. RESULT

The maximum results of specific absorption rate found during testing for H100DW are as follows(with expanded uncertainty 6.4%)

Table1

Exposure Configuration	Frequency	Highest Measured SAR 1g(W/Kg)	Highest Measured SAR 10g(W/Kg)
Head (Separation Distance 20cm)	2412 MHz	0.1082	0.1104
	2442 MHz	0.1094	0.1139
	2472 MHz	0.1074	0.1096
Body-worn(Separation Distance 20cm)	2412 MHz	0.1231	0.1314
	2442 MHz	0.1135	0.1437
	2472 MHz	0.1251	0.1324

The maximum sar value is obtained at the case of (table1), and the maximum value is **0.1139** W/Kg(10g) for Head and **0.1437** W/Kg(10g)for body.

Test result : pass

-----The end of the report-----