

FCC TEST REPORT

For

Anker SOLIX Home Power Panel

Model Number: A17B1

FCC ID: 2AOKB-A17B1

Report Number : WT238001949

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection

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Revision History

No	Date	Remark
V1.0	2023.12.29	Initial issue

TEST REPORT DECLARATION

Applicant : Anker Innovations Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, HONG KONG
Manufacturer : Anker Innovations Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, HONG KONG
EUT Description : Anker SOLIX Home Power Panel
Model No : A17B1
Trade mark : Anker
FCC ID : 2AOKB-A17B1

Test Standards:

FCC Part 2.1091

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer: 陈司林 Date: Dec.29, 2023
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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
RF Exposure	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report Information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description	: Anker SOLIX Home Power Panel
Manufacturer	: Anker Innovations Limited
Model Number	: A17B1
Operate Frequency	: Wi-Fi: 2.412GHz~2.462GHz Bluetooth: 2.402GHz~2.480GHz
Type(s) of Modulation:	: DSSS (DBPSK, DQPSK, CCK) for 802.11b OFDM (BPSK, QPSK, 16QAM, 64QAM) for 802.11g/n Bluetooth: GFSK
Antenna Designation	: 2.4G rubber stick double copper tube antenna: 4.24dBi
Operating voltage	: 120/ 240Vac 60Hz
Remark:	/

4. RF EXPOSURE

4.1. LIMIT FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

This product can be classified as mobile device, so the 20cm separation distance warning is required. In this section, the power density at 20cm location is calculated to examine if it is lower than the limit.

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	£1500	30
1500–100,000	/	/	1.0	30

4.2. MPE Calculation Method

Power Density: $Pd(mW/cm^2) = P * G / 4\pi d^2$

P=Peak RF output power (mW)

G=EUT Antenna numeric gain (numeric)

Pi=3.14

d=Separation distance between radiator and human body (cm)

4.3. CALCULATED RESULT

Wi-Fi 2.4G

P=21.55 dBm (max: 143mW)

G=4.24dBi (numeric: 2.65)

d=20cm

$Pd = 143 * 2.65 / 4 * 3.14 * 400 = 0.075 < 1$

BT

P=5.10 dBm (max: 3.24mW)

G=4.24dBi (numeric: 2.65)

d=20cm

$Pd = 3.24 * 2.65 / 4 * 3.14 * 400 = 0.002 < 1$

Calculation for Simultaneous Transmission Sources

Wi-Fi 2.4G +BT =0.075+0.002=0.077<1

END OF REPORT