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RED-EMC Test Report

Client Name :

Address :

Product Name : Bamboo 5W wireless charger with photo frame

Date : Sept. 16, 2020

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TEST REPORT

Applicant :

Manufacturer :

Product Name : Bamboo 5W wireless charger with photo frame

Model No. : P308.13,

Trade Mark

Rating(s) Input: DC 5V/2A

Wireless output: 5W Max

Test Standard(s) : ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-3 V2.1.1 (2019-03)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 301 489-1 and EN 301 489-3 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Sept. 01, 2020
Date of Test	Sept. 01~ 10, 2020
Prepared By	Yilia Zhong
k Anbotek Anbotek Anbotek Anbotek Anbotek	(Engineer / Yilia Zhong)
Reviewer	botek Arbotek Arbotek Ar
	(Supervisor / Bibo Zhang)
Approved & Authorized Signer	Kingkong Jin model karbatak
Anbotek Anbotes Anbotek Anbotek	(Manager / Kingkong Jin)



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1. General Information

1.1. Client Information

Dir	- + C	WO.	D1.	2.0	7500	200
Applicant	:					botek
Address	:					Anbore
Manufacturer	:					- Profes
Address						e _K
						potek
Factory	<u>:</u> 5					Anbotek
Address	:					Anbo,

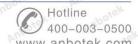
1.2. Description of Device (EUT)

Product Name	:	Bamboo 5W wireless cl	narger with photo frame
Model No.	:	P308.13, (Note: All samples are "P308.13" for test only.)	the same except the model number, so we prepare
Trade Mark	:	abotek	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 230V, 50Hz for ada	pter Anborek Anborek Anborek Anborek
Test Sample No.	:	1-2-1(Normal Sample)	tek Anbotek Anbotek Anbor Anbor
		Operation Frequency:	110-205KHz
Product		Modulation Type:	MSK Anborek Anborek
Description	i	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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

1.3. Auxiliary Equipment Used During Test

	Adapter	:	M/N: A2013		Aupo.
			Input: 100-240V-0.7A 50-60Hz		Anbore
K			Output: 3.6-5.5V 3A / 6.5-9V 2A / 9-12V 1.5A	Ann	anbi





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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Wireless charging Mode

VO	For Conducted Emission						
Final Test Mode	Description						
Mode 1	Wireless charging Mode						

		For Radiated Emission
16	Final Test Mode	Description
100	Mode 1	Wireless charging Mode



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1.5. Test Equipment List

Conducted Emission Measurement

~	160	- AP - 11	L 01	Dis.	75.67	- 00
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. ^{Anh}	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	L.I.S.N. Artificial Mains Network	Schwarzbeck	NSLK 8127	8127386	Nov. 04, 2019	1 Year
3.	ISN	Schwarzbeck	NTFM 8158	#172	Nov. 04, 2019	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
6.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. P	EMI Test Receiver	Rohde & Schwarz	N/A26	101481	Nov. 04, 2019	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
4. _b o	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year

Electrostatic Discharge Measurement

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
No.	1.	ESD Simulators	emtest	ESD NX30.1	11891	Mar. 07, 2020	1 Year





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R/S Immunity Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Alloo1	Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
2 ⁿⁿ	Amplifier	Micotoop	MPA-80-1000 -250	MPA1903096	Nov. 04, 2019	1 Year
3	Amplifier	Micotoop	MPA-1000-60 00-100	MPA1903122	Nov. 04, 2019	1 Year
4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Apr.17, 2020	1 Year
5	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	3 Year
6	Power Sensor	Agilent	E9301A	MY41498906	Nov. 04, 2019	1 Year
7	Power Sensor	Agilent	E9301A	MY41498088	Nov. 04, 2019	1 Year
8	Power Meter	Agilent	E4419B	GB40202909	Nov. 04, 2019	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr.17, 2020	1 Year
10	software	EMtrace	EM 3	N/A	N/A	N/A

1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128





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1.7. Performance Criteria

1.7.1. For EMS Test:

- √ A: Normal performance within the specification limits;
- \sqrt{B} : Temporary degradation or loss of function or performance which is self-recoverable;
- $\sqrt{}$ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset;
- \sqrt{D} : Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.



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2. Summary of Test Results

EMC Em	ission	k abotek	Anboten
Standard	Basic Standard	Limit	Results
ETSI EN 301 489-1 V2.2.3 Clause 8.3 & 8.4	EN 55032: 2015	Class B	PASS
ETSI EN 301 489-1 V2.2.3 Clause 8.2	EN 55032: 2015	Class B	PASS
ETSI EN 301 489-1 V2.2.3 Clause 8.5	EN 61000-3-2: 2014	Class A	N/A
ETSI EN 301 489-1 V2.2.3 Clause 8.6	EN 61000-3-3: 2013	1	N/A
EMC Imn	nunity		
Standard	Basic Standard	Performance Criteria	Results
ETSI EN 301 489-1 V2.2.3 Clause 9.3	EN 61000-4-2: 2009	botek B Anbot	PASS
ETSI EN 301 489-1 V2.2.3 Clause 9.2	EN 61000-4-3: 2006 +A1: 2008+A2: 2010	A	PASS
ETSI EN 301 489-1 V2.2.3 Clause 9.4	EN 61000-4-4: 2012	Borek	N/A
ETSI EN 301 489-1 V2.2.3 Clause 9.8	EN 61000-4-5: 2014+A1: 2017	B	N/A
ETSI EN 301 489-1 V2.2.3 Clause 9.5	EN 61000-4-6: 2014	Amborel A Ant	N/A
ETSI EN 301 489-1 V2.2.3 Clause 9.7	EN 61000-4-11: 2004	B/C/C NOTE (3)	N/A
Anbote And And	Anbotek Anbo	k hotek	Anbore
test is not applicable in this or equipment intended to be	Test Report used exclusively in an	k Anbotek	Anbo'
	V	Aupo otek	holek
Tr MOIN MAIL	10	Aupo. A	abotek
9/ reduction Derformance	Critoria C	VUpo,	LOK-
	Standard ETSI EN 301 489-1 V2.2.3 Clause 8.3 & 8.4 ETSI EN 301 489-1 V2.2.3 Clause 8.2 ETSI EN 301 489-1 V2.2.3 Clause 8.5 ETSI EN 301 489-1 V2.2.3 Clause 8.6 EMC Imn Standard ETSI EN 301 489-1 V2.2.3 Clause 9.3 ETSI EN 301 489-1 V2.2.3 Clause 9.2 ETSI EN 301 489-1 V2.2.3 Clause 9.2 ETSI EN 301 489-1 V2.2.3 Clause 9.4 ETSI EN 301 489-1 V2.2.3 Clause 9.4 ETSI EN 301 489-1 V2.2.3 Clause 9.5 ETSI EN 301 489-1 V2.2.3 Clause 9.5 ETSI EN 301 489-1 V2.2.3 Clause 9.7 test is not applicable in this or equipment intended to be ationcentre, the class A limits 30% reduction – Performance 30% reduction – Perf	ETSI EN 301 489-1 V2.2.3 Clause 8.3 & 8.4 ETSI EN 301 489-1 V2.2.3 Clause 8.2 ETSI EN 301 489-1 V2.2.3 Clause 8.5 ETSI EN 301 489-1 V2.2.3 Clause 8.6 EMC Immunity Standard ETSI EN 301 489-1 V2.2.3 Clause 9.3 ETSI EN 301 489-1 V2.2.3 Clause 9.3 ETSI EN 301 489-1 V2.2.3 Clause 9.2 ETSI EN 301 489-1 V2.2.3 Clause 9.2 ETSI EN 301 489-1 V2.2.3 Clause 9.4 ETSI EN 301 489-1 V2.2.3 Clause 9.5 EN 61000-4-6: 2014 EN 61000-4-6: 2014	Standard



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3. Conducted Emission Test

3.1. Conducted Emission Test at Main Ports

3.1.1. Test Standard and Limit

Test Standard	ETSI EN 301 489-1 V2.2.3 Clause 8.3 & 8.4	nn an
Basic Standard	EN 55032: 2015	

Limits for conducted emissions

	Fraguency	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46 Mahares
	5MHz~30MHz	60	Ar ote 50 ambotek
Remark: *Decreasing	ng linearly with logarithm o	f the frequency.	And otek Anbotek

Limits for conducted emissions of equipment intended to be used in telecommunication centres and industrial environment

	Fraguency	Maximum RF L	ine Voltage (dBuV)	
Test Limit	Frequency	Quasi-peak Level	Average Level	
	150kHz~500kHz	79	66	
	500kHz~30MHz	73	60 Mary Market	

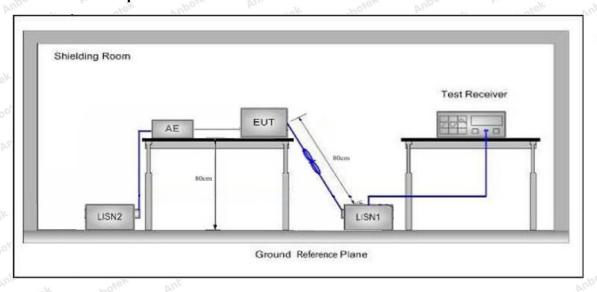






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3.1.2. Test Setup



3.1.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ETSI EN 301 489-1 V2.2.3& EN 55032: 2015 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

For the actual test configuration, please refer to the related Item EUT Test Photos.

3.1.4. Test Data

PASS

The EUT should be compliance to the limit of Class B

Only the worst case data was showed in the report, please to see the following pages





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Conducted Emission Test Data

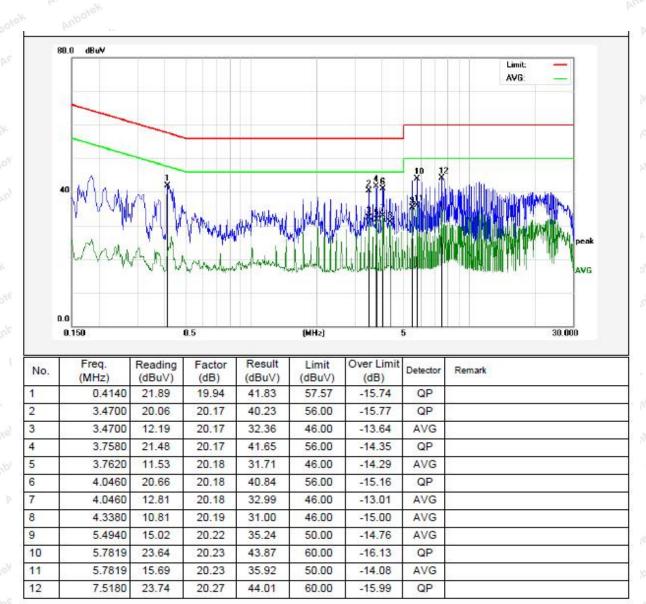
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 230V, 50Hz for adapter

Comment: Live Line

Tem.: 24.3℃ Hum.: 51%





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Conducted Emission Test Data

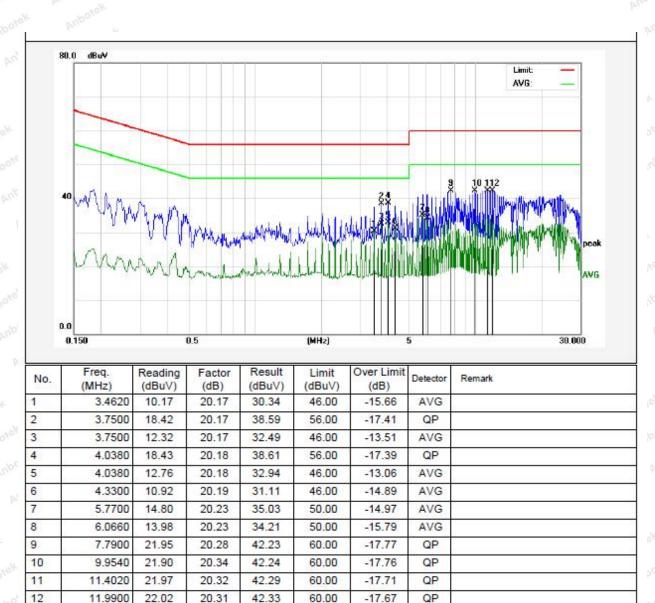
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 230V, 50Hz for adapter

Comment: Neutral Line

Tem.: 24.3℃ Hum.: 51%





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3.2. Radiated Emission Test

3.2.1. Test Standard and Limit

Test Standard	ETSI EN 301 489-1 V2.2.3 Clause 8.2	FOR	-100	bolek
Basic Standard	EN 55032: 2015			Anbot

Radiated Emission Test Limit (Below 1000MHz)

201	`	,
Frequency (MHz)	Limit (d	dBμV/m)
	Quasi-p	eak Level
	Class B	Class A
30MHz~230MHz	40	50
230MHz~1000MHz	47	57

Radiated Emission Test Limit (Above 1000MHz)

Frequency (MHz)		Limit (d	BμV/m)		
	Class B		Cla	Class A	
	Peak	Average	Peak	Average	
1000 MHz -3000 MHz	70	50	76	56	
3000 MHz -6000 MHz	74	botek 54 Anthon	80	60	

Radiated Emission Test Limit for FM Receivers

F	Limit	(dBμV/m)	
Frequency (MHz)	Quasi	-peak Level	
(IVII IZ)	Fundamental	Harmonics	
30MHz~230MHz	60	anboret 52 And	
230MHz~300MHz	60	nbotek 52 Antoo	
300MHz~1000MHz	60	56	

Frequency Range of Radiated Measurement

Highest fre	equency generated or Upp	er frequenc	cy of		
measuremen	nt used in the device or on	which the	device	Rang	ge (MHz)
	operates or tunes (MHz	<u>z</u>)			
und stek out	Below 108	hotek	Anboten	And stek	1000
Anbo	108 – 500	Lotek	Anbotek	Ambe 18	2000
Anbo.	500 – 1000	Ann	nbote	k Aupo.	5000
Anbotek Anbotek	Above 1000	Anbore	k Pup		he highest frequency nichever is lower





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3.2.2. Test Setup

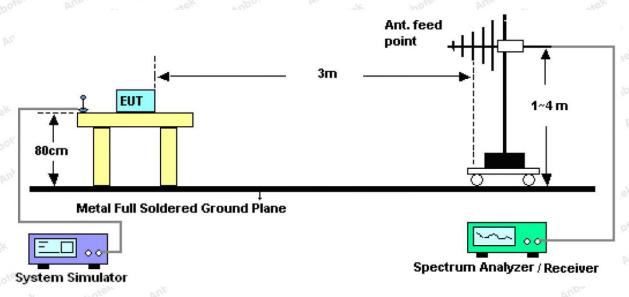


Figure 1. 30MHz to 1GHz

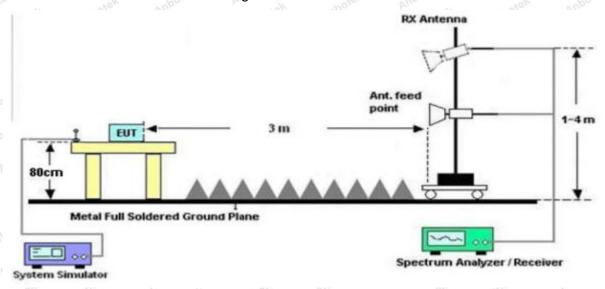


Figure 2. Above 1 GHz

3.2.3. Test Procedure

- 1) The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- 2) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 3) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode







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pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- 5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- 6) The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- 7) For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak/ Average detection at frequency above 1GHz.

3.2.4. Test Data

PASS

The EUT should be compliance to the limit of Class B

Only the worst case data was showed in the report, please to see the following pages



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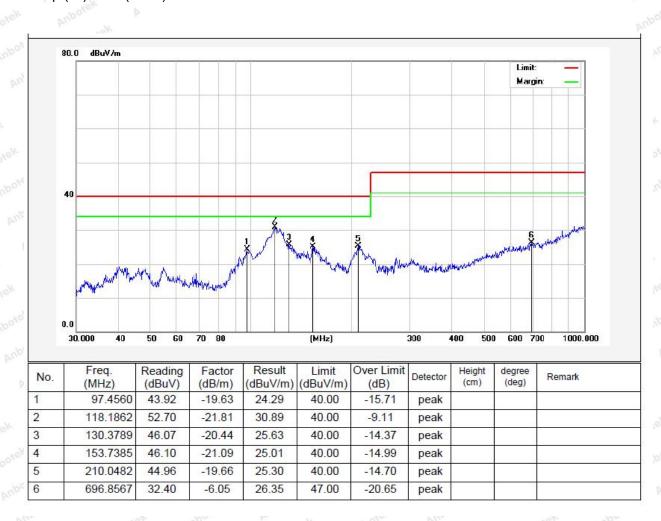
Test Results (30~1000MHz)

Test Mode: Mode 1

Power Source: AC 230V, 50Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 24.3°C/49%RH





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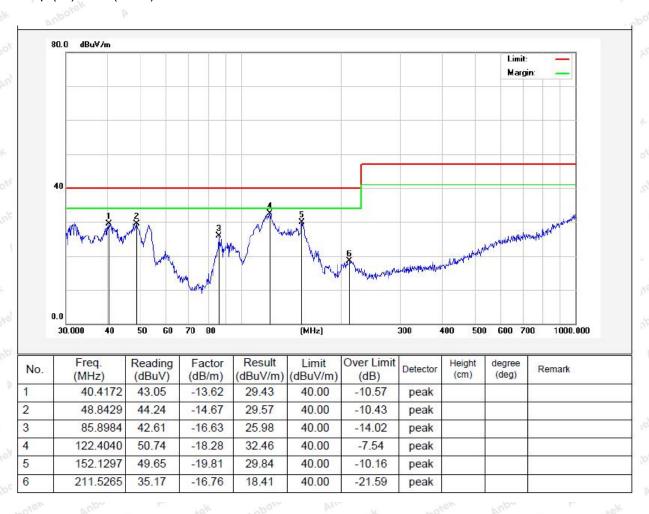
Test Results (30~1000MHz)

Test Mode: Mode 1

Power Source: AC 230V, 50Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 24.3°C/49%RH





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4. Immunity Test

General Performance Criteria

◆ Performance criteria for continuous phenomena applied to transmitters and receivers (CT/CR)

During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

Performance criteria for transient phenomena applied to transmitters and receivers (TT/TR)

After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

◆ Performance criteria for equipment which does not provide a continuous communication link
For radio equipment which does not provide a continuous communication link, the performance criteria
described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in
the test report, his own specification for an acceptable level of performance or degradation of
performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.

◆ Performance criteria for ancillary equipment tested on a stand alone basis

If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.







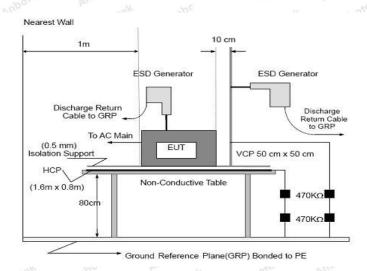
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4.1. Electrostatic Discharge Test

4.1.1. Test Standard and Specification

Test Standard	ETSI EN 301 489-1 V2.2.3 Clause 9.3/ EN 55035 Clause 4.2.1	botek
Basic Standard	EN 61000-4-2: 2009	Anbot
Discharge Impedance	330 ohm / 150 pF	An
Performance Criterion	CT/CR	
D' 1 1/16	Air Discharge: 2kV/4kV/8kV	ek
Discharge Voltage	Contact Discharge: 2kV/4kV (Direct/Indirect)	ntek
Polarity	Positive & Negative	D. Ore
Number of Dischause	Air Discharge: min. 20 times at each test point	Anbo
Number of Discharge	Contact Discharge: min. 200 times in total	Ant
Discharge Mode	Single Discharge	anboter.
Discharge Period	1 second minimum	anbotek

4.1.2. Test Setup



Note:

TABLE-TOP EQUIPMENT:

The Configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940kohm total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.







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FLOOR-STANDING EQUIPMENT:

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

4.1.3. Test Procedure

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

1) Contact discharge was applied to conductive surfaces and coupling planes of the EUT.

During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions $0.5m \times 0.5m$, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

- 3) When applying direct discharges to a portable or handheld battery-powered EUT with a display screen, it may not be possible to observe the screen for a given EUT orientation. If observation of the screen is necessary during this test, the EUT may be mounted vertically using non-metallic supports.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.





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4.1.4. Test Data

Temp.(°C)/Hum.(%RH): 24.1°C/50%RH

Power Source: AC 230V, 50Hz for adapter

Test Mode: Mode 1

Item	Contact Discharge to conducted surfaces and to coupling planes		Air Discharge at insulating
nem	Direct Contact Discharge	Indirect Contact Discharge	surfaces
Test Voltage	Reaction of EUT / Result	Reaction of EUT / Result	Reaction of EUT / Result
+2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS
-2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS
+4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS
-4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS
+6kV	Anborek - Anbo	-botek -nbotek Ant	n.r.r. PASS
-6kV	Anbotek Anbotek	Anbotek - Anbotek	n.r.r. PASS
+8kV	tek A' hote. Anbotel	Anboten Anbotek	n.r.r. PASS
-8kV	potek Anbotek Anbo	tek Anborek Anbore	n.r.r. PASS

Remarks: n.r.r. = no reaction recognized

Performance Criteria A observed and No any function degraded during the tests.



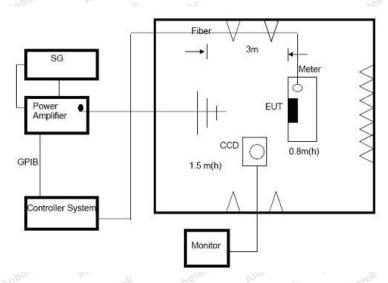
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4.2. Radiated, RF Electromagnetic Fields Test

4.2.1. Test Standard and Specification

Test Standard	ETSI EN 301 489-1 V2.2.3 Clause 9.2/ EN 55035 Clause 5
Basic Standard	EN 61000-4-3: 2006+A1: 2008+A2: 2010
Required Performance	Α
Frequency Range	80MHz to 6GHz
Field Strength	3 V/m
Modulation	1kHz Sine Wave, 80%, AM Modulation
Frequency Step	1 % of preceding frequency value
Polarity of Antenna	Horizontal and Vertical
Test Distance	3 m
Antenna Height	1.5 m
Dwell Time	at least 0.5 seconds
Day Day	The transfer of the transfer o

4.2.2. Test Setup



4.2.3. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) The field strength level was 3V/m
- 2) The frequency range is swept from 80 MHz to 6000 MHz with the signal 80%QI modulated with a 1kHz sine wave.
- 3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.









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4.2.4. Test Data

Temp.(°C)/Hum.(%RH): 23.6°C/55%RH

Power Source: AC 230V, 50Hz for adapter

Test Mode: Mode 1

Frequency Range (MHz)	Antenna Polarity	R.F. Field Strength	Azimuth	Result
Anbotek Anbotek			Front	e _k
90. 6000	H/V	3 V/m (rms) AM Modulated	Rear	☑A □B
80~6000	П / V	1000Hz, 80%	Left	
potek Anbotes	Ant		Right	Amboter
Anbotek				
otek Anbotek An				
Anbotek Anbotek				



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Test



Photo of Radiation Emission Test







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Photo of Electrostatic Discharge Test

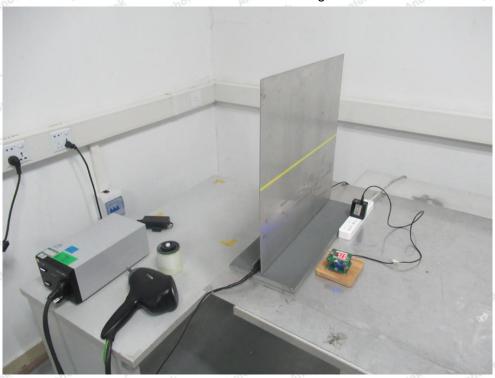


Photo of RF Field Strength Susceptibility Test







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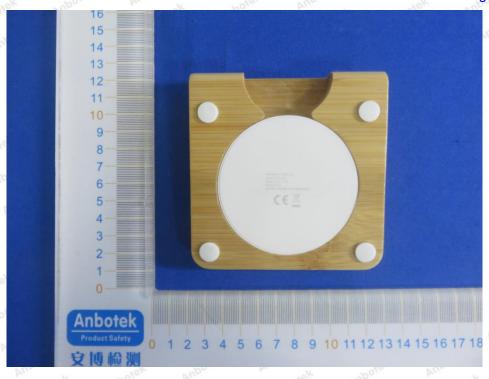
APPENDIX II -- EXTERNAL PHOTOGRAPH







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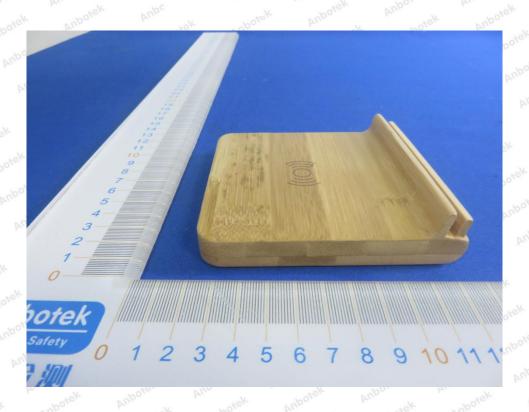


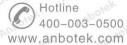




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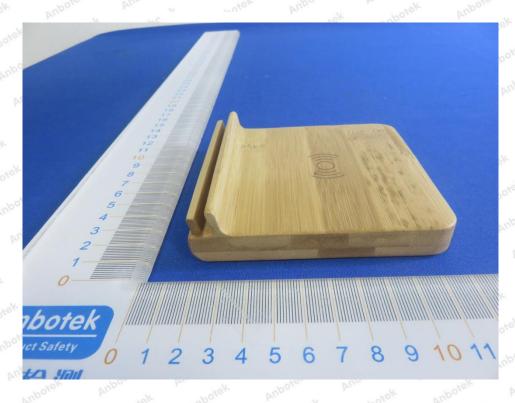






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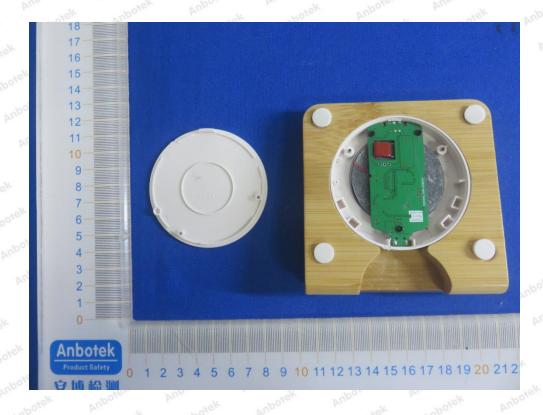


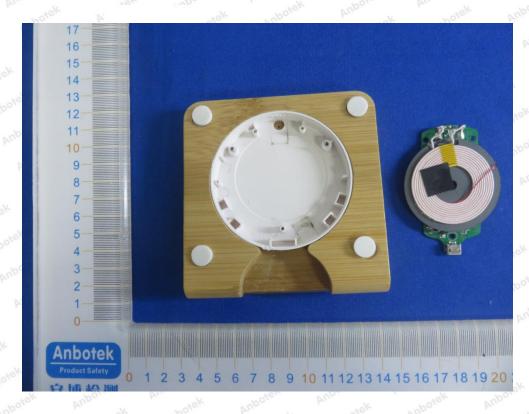




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APPENDIX III -- INTERNAL PHOTOGRAPH

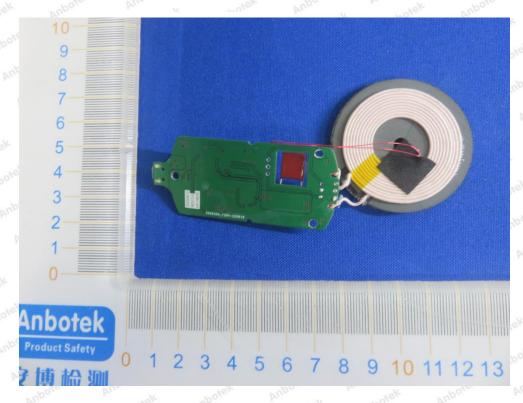






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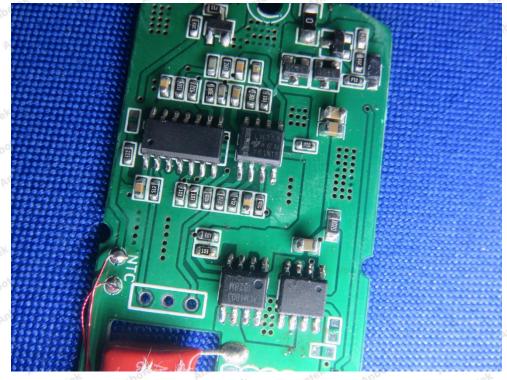








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----- End of Report -----

