

FCC Test Report

FCC ID:2ATGY-AWC1136

Product: Wireless 5-in-1 Pad with 12W USB-A

Trade Name: **ubiolabs**

Model Number: AWC1136

Family Model: N/A

Report No.: S21063002203001

Prepared for

UBIO LABS, INC.

2821 Northup Way, Suite 250, Bellevue, WA 98004 USA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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Website:<http://www.ntek.org.cn>

TEST RESULT CERTIFICATION

Applicant's name : UBIO LABS, INC.

Address : 2821 Northup Way, Suite 250, Bellevue, WA 98004 USA

Manufacturer's Name : UBIO LABS, INC.

Address : 2821 Northup Way, Suite 250, Bellevue, WA 98004 USA

Product description

Product name : Wireless 5-in-1 Pad with 12W USB-A

Model and/or type reference : AWC1136

FCC part 15C

Standards : ANSI C63.10:2013

KDB 680106 D01 RF Exposure Wireless Charging App v03r01

This device described above has been tested by ShenzhenNTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test :

Date (s) of performance of tests : 30Jun. 2021 ~ 26Jul. 2021

Date of Issue : 26Jul. 2021

Test Result : Pass

Testing Engineer :

Mukzi Lee

(Mukzi Lee)

Authorized Signatory :

Alex

(Alex Li)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	FCC Rules	Limit	Judgment	Remark
FCC part 15C:2018 ANSI C63.10:2013	Conducted Emission	§15.207	Class B	PASS	
	Radiated Emission	§15.209	Class B	PASS	
	ANTENNA APPLICATION	§15.203	/	PASS	

NOTE:

- (1)'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126
P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR
Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number:463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized
International Standard ISO/IEC 17025:2005 General requirements for
the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined
scope and the operation of a laboratory quality management system
(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a
standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of
approximately **95 %**.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

Revision History

Report No.	Version	Description	Issued Date
S21063002203001	Rev.01	Initial issue of report	26Jul. 2021

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Wireless 5-in-1 Pad with 12W USB-A
Trade Name	ubiolabs
FCC ID	2ATGY-AWC1136
Model No.	AWC1136
Family Model	N/A
Model Difference	N/A
Operating Frequency	110.5kHz~205kHz
Modulation Technique	Induction
Antenna Type	Induction coil
Power Rating	Adapter Model: CHG1147SG Adapter Input: 110-240V, 50-60Hz 1.3A Input: DC18V, 3.5A Output: USB A Output:5V/2.4A Wireless Output (Centre):15W/10W/7.5W/5W Wireless Output(Left and Right):15W/10W/7.5W/5W per Pad Wireless Output(Top and Bottom):5W per Pad Max Total Power:57W
Battery	N/A
HW Version	V1.0
SW Version	V1.0

2.1.1 DESCRIPTION OF TEST MODES

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Pretest Mode	Description
Mode 1	Charging+Coil 1 TX Mode
Mode 2	Charging+Coil 2 TX Mode
Mode 3	Charging+Coil 3 TX Mode
Mode 4	Charging+Coil 4 TX Mode
Mode 5	Charging+Coil 5 TX Mode
Mode 6	Charging+Coil 1+2 TX Mode
Mode 7	Charging+Coil 1+3 TX Mode
Mode 8	Charging+Coil 1+4 TX Mode
Mode 9	Charging+Coil 1+5 TX Mode
Mode 10	Charging+Coil 2+3 TX Mode
Mode 11	Charging+Coil 2+4 TX Mode
Mode 12	Charging+Coil 2+5 TX Mode
Mode 13	Charging+Coil 3+4 TX Mode
Mode 14	Charging+Coil 3+5 TX Mode
Mode 15	Charging+Coil 4+5 TX Mode
Mode 16	Charging+Coil 1+2+3 TX Mode
Mode 17	Charging+Coil 1+2+4 TX Mode
Mode 18	Charging+Coil 1+2+5 TX Mode
Mode 19	Charging+Coil 1+3+4 TX Mode
Mode 20	Charging+Coil 1+3+5 TX Mode
Mode 21	Charging+Coil 1+4+5 TX Mode
Mode 22	Charging+Coil 2+3+4 TX Mode
Mode 23	Charging+Coil 2+3+5 TX Mode
Mode 24	Charging+Coil 2+4+5 TX Mode
Mode 25	Charging+Coil 3+4+5 TX Mode
Mode 26	Charging+Coil 1+2+3+4 TX Mode
Mode 27	Charging+Coil 1+2+3+5 TX Mode

Mode 28	Charging+Coil 2+3+4+5 TX Mode
Mode 29	Charging+Coil 1+3+4+5 TX Mode
Mode 30	Charging+Coil 1+2+4+5 TX Mode
Mode 31	Charging+Coil 1+2+3+4+5 TX Mode

Note:

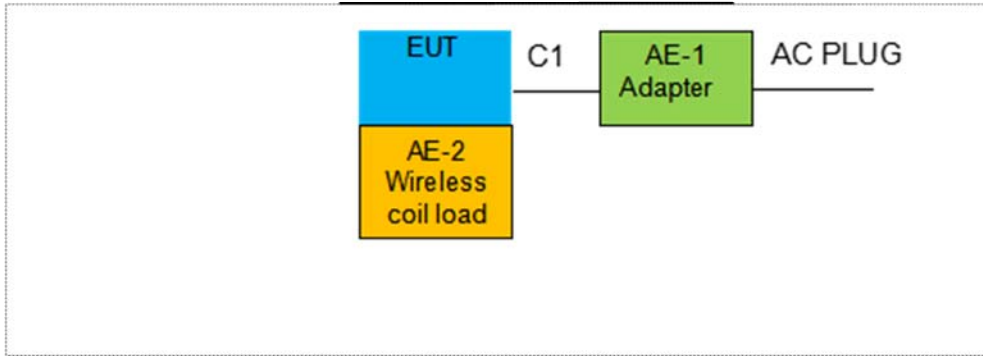
1. When coil 3 is charging the phone, coils 4 and 5 cannot be used with coil 3. Only when the coil 3 is charging the earphone box, the working states of the coils 3, 4, and 5 will appear at the same time. The worst case is that coil 3 is charging the phone.
2. All mode has been tested, mode 16 was the worst case and only this mode was presented in this report.
3. Wireless output 15W/10W7.5W/5W and multi output 45W all has been tested, 45W was the worst case and only this mode was presented in this report.

Test Cases	
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 16: Max load
Radiated Test Cases	Mode 16: Max load

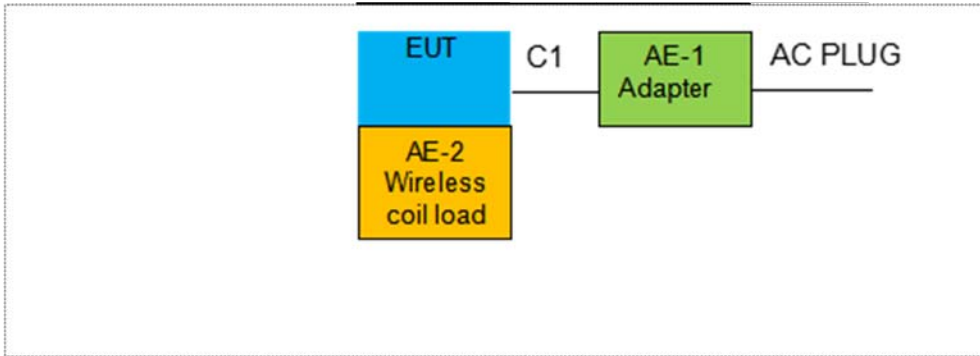
(*)EUT can only access the specified load, can not adjust the size of the load

2.2 DESCRIPTION OF TEST SETUP

For AC Conducted Emission Mode



For Radiated Test Cases



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Adjustable wireless coil load	HAWORTH	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB cable	YES	NO	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded”“with core”; “NO” means “unshielded”“without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2020.05.11 2021.04.27	2021.05.10 2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11 2021.04.27	2021.05.10 2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
8	Amplifier	MITEQ	TTA1840-35-HG	177156	2020.07.13	2021.07.12	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2020.12.10	2021.12.09	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11 2021.04.27	2021.05.10 2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2020.04.11 2021.04.27	2021.04.10 2022.04.26	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2020.05.11 2021.04.27	2021.05.10 2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	limit	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

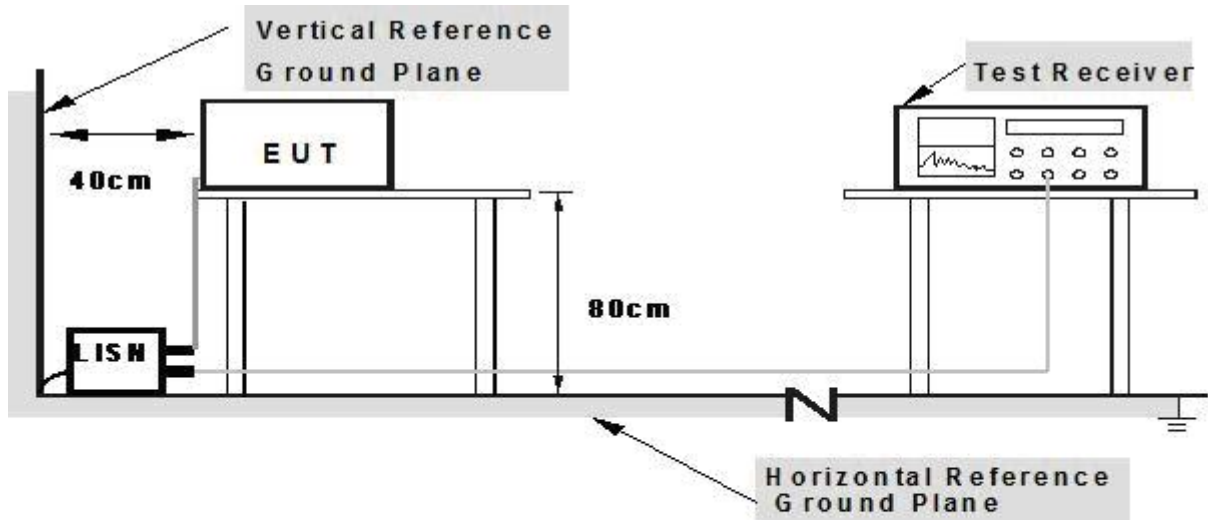
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

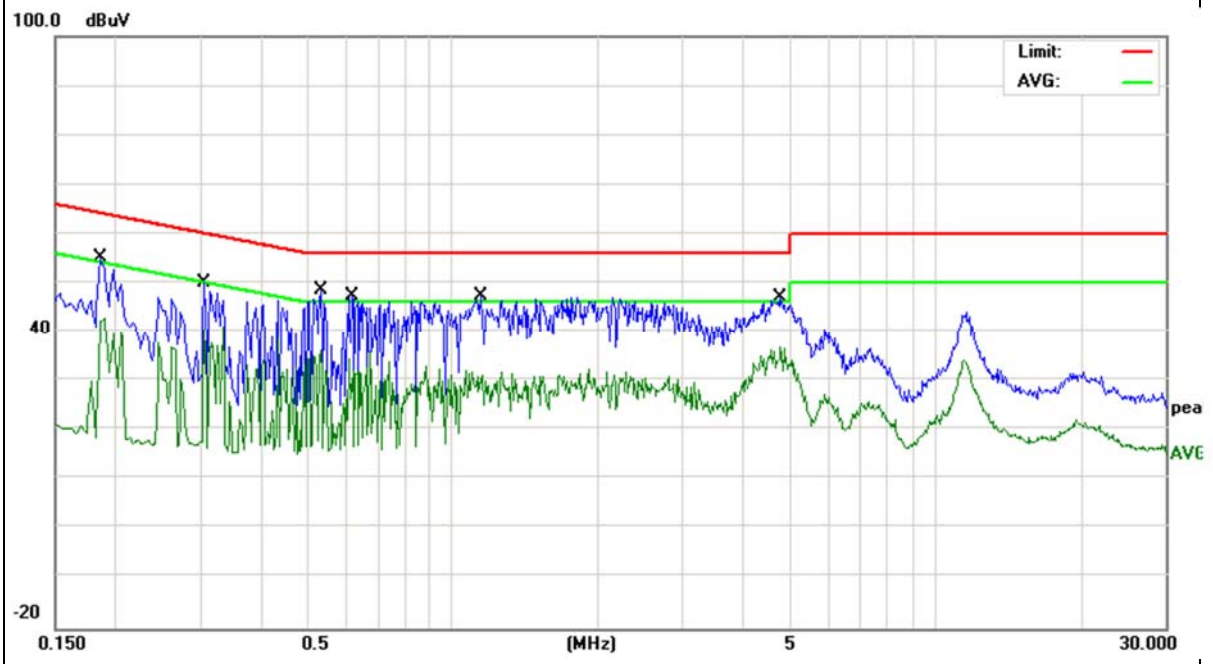
3.1.5 TEST RESULTS

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	21.1	Relative Humidity:	48
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 16	Test Voltage:	AC 120V/60Hz

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measurement (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1859	45.59	9.55	55.14	64.21	-9.07	QP
0.1859	33.21	9.55	42.76	54.21	-11.45	AVG
0.3059	40.45	9.54	49.99	60.08	-10.09	QP
0.3059	30.81	9.54	40.35	50.08	-9.73	AVG
0.5340	38.98	9.55	48.53	56.00	-7.47	QP
0.5340	26.61	9.55	36.16	46.00	-9.84	AVG
0.6179	37.85	9.55	47.40	56.00	-8.60	QP
0.6179	23.31	9.55	32.86	46.00	-13.14	AVG
1.1418	37.94	9.56	47.50	56.00	-8.50	QP
1.1418	20.46	9.56	30.02	46.00	-15.98	AVG
4.7538	37.31	9.62	46.93	56.00	-9.07	QP
4.7538	27.10	9.62	36.72	46.00	-9.28	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

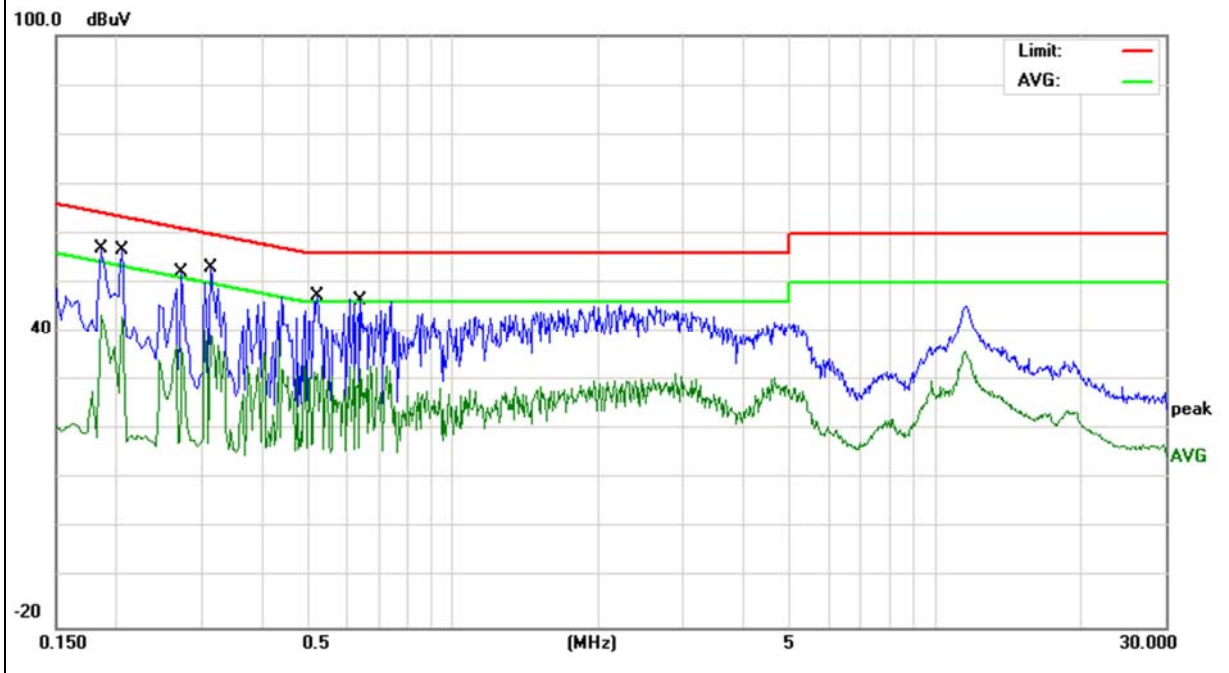


EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	21.1	Relative Humidity:	48
Pressure:	1010hPa	Phase :	N
Test Mode:	Mode 16	Test Voltage:	AC 120V/60Hz

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1859	47.49	9.54	57.03	64.21	-7.18	QP
0.1859	33.98	9.54	43.52	54.21	-10.69	AVG
0.2058	46.97	9.54	56.51	63.37	-6.86	QP
0.2058	33.60	9.54	43.14	53.37	-10.23	AVG
0.2740	42.73	9.53	52.26	60.99	-8.73	QP
0.2740	27.57	9.53	37.10	50.99	-13.89	AVG
0.3140	43.58	9.53	53.11	59.86	-6.75	QP
0.3140	30.97	9.53	40.50	49.86	-9.36	AVG
0.5220	37.94	9.54	47.48	56.00	-8.52	QP
0.5220	23.42	9.54	32.96	46.00	-13.04	AVG
0.6419	36.80	9.54	46.34	56.00	-9.66	QP
0.6419	23.55	9.54	33.09	46.00	-12.91	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Notes

- (1) Measurement was performed at an antenna to the closed point of EUT distance of meters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna (Blow 30M, use loop antenna), and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW \geq 3*RBW

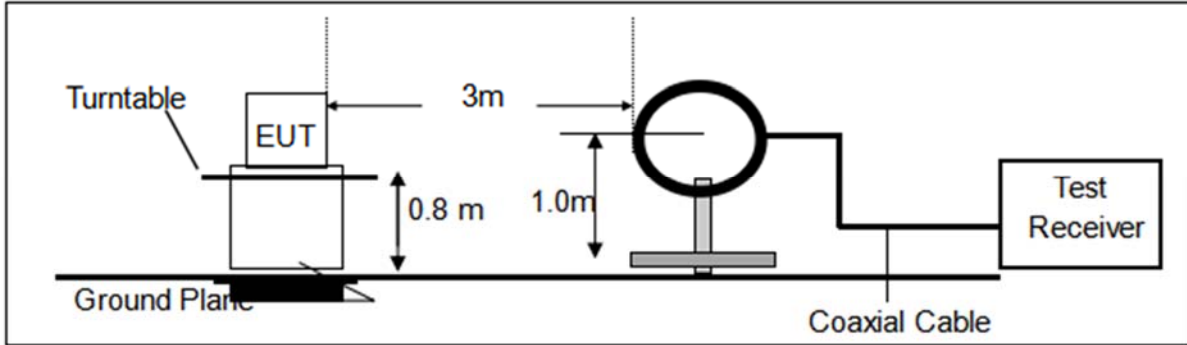
Sweep = auto

Detector function = QP

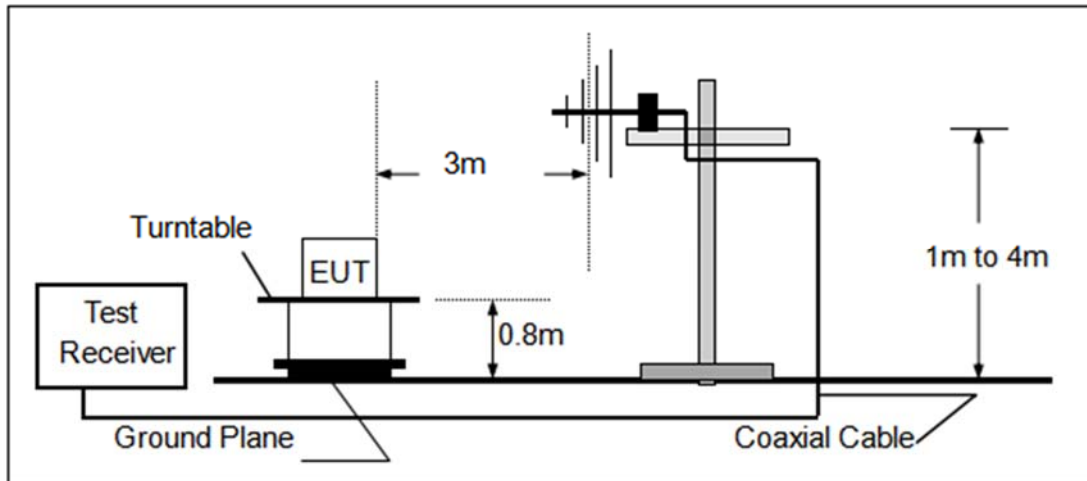
Trace = max hold

3.2.3 TEST SETUP

(a) For Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) For Radiated Emission 30~1000MHz



3.2.4 TEST RESULTS

TEST RESULTS(9KHz~30MHz)

Note:

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	AC 120V/60HZ
Test Mode :	Low frequency/Mode 16	Polarization:	X

Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.058	X	44.27	112.3	-68.1	Avg
0.111	X	66.57	106.7	-40.1	Avg(fundamental frequency)
0.655	X	45.28	71.28	-26.00	QP
2.894	X	37.57	69.54	-31.97	QP
4.589	X	43.57	69.54	-25.97	QP
19.258	X	35.87	69.54	-33.67	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	AC 120V/60HZ
Test Mode :	Mid frequency/Mode 16	Polarization:	X

Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.048	X	41.38	113.98	-72.60	Avg
0.127	X	69.98	105.53	-35.55	Avg(fundamental frequency)
0.578	X	38.53	72.37	-33.84	QP
0.849	X	34.78	69.03	-34.25	QP
1.596	X	33.84	63.54	-29.70	QP
7.187	X	48.26	69.54	-21.28	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	AC 120V/60HZ
Test Mode :	High frequency/Mode 16	Polarization:	X

Frequency (MHz)	Ant. Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.054	X	37.95	112.96	-75.01	Avg
0.204	X	68.35	101.41	-33.06	Avg(fundamental frequency)
1.085	X	40.35	66.90	-26.55	QP
1.457	X	36.08	64.34	-28.26	QP
5.486	X	35.68	69.54	-33.86	QP
7.925	X	33.49	69.54	-36.05	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

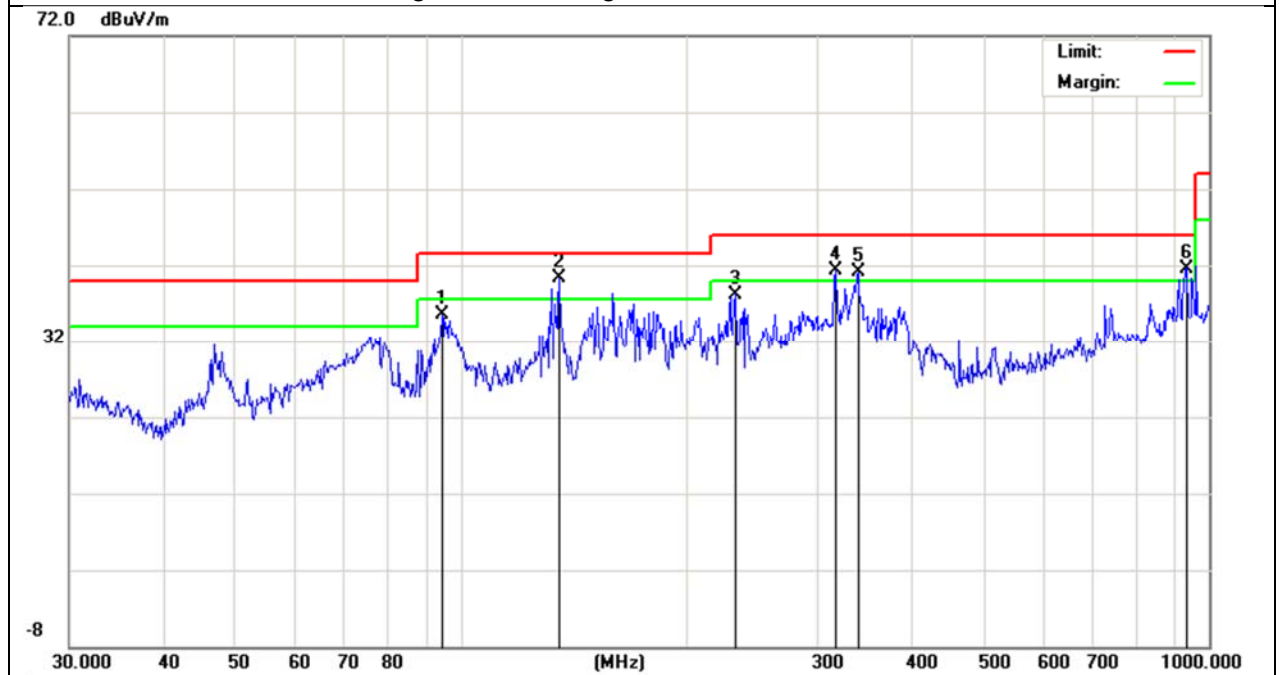
TEST RESULTS(30MHz ~1000MHz)

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010 hPa	Test Power :	AC 120V/60HZ
Test Mode :	High frequency/Mode 16	Polarization:	Horizontal

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	94.4282	25.05	10.39	35.44	43.50	-8.06	QP
H	135.5062	27.91	12.49	40.40	43.50	-3.10	QP
H	233.3487	27.12	11.08	38.20	46.00	-7.80	QP
H	316.5889	26.19	15.21	41.40	46.00	-4.60	QP
H	339.5887	24.94	16.16	41.10	46.00	-4.90	QP
H	935.5461	13.72	27.88	41.60	46.00	-4.40	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.

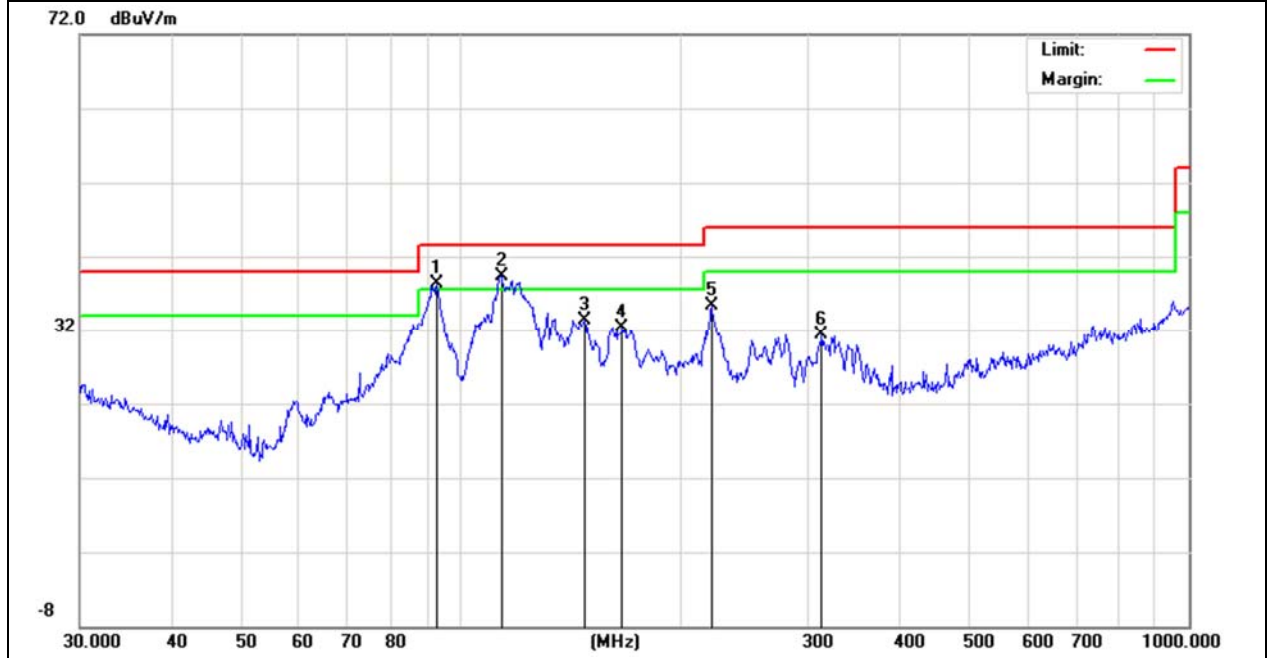


EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010 hPa	Test Power :	AC 120V/60HZ
Test Mode :	High frequency/Mode 16	Polarization:	Vertical

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	92.7871	28.12	10.26	38.38	43.50	-5.12	QP
V	113.7143	27.14	12.11	39.25	43.50	-4.25	QP
V	147.9214	21.34	12.00	33.34	43.50	-10.16	QP
V	166.6513	21.61	10.68	32.29	43.50	-11.21	QP
V	221.3921	24.29	10.94	35.23	46.00	-10.77	QP
V	313.2760	16.02	15.33	31.35	46.00	-14.65	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.



4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.

4.2 TEST SETUP

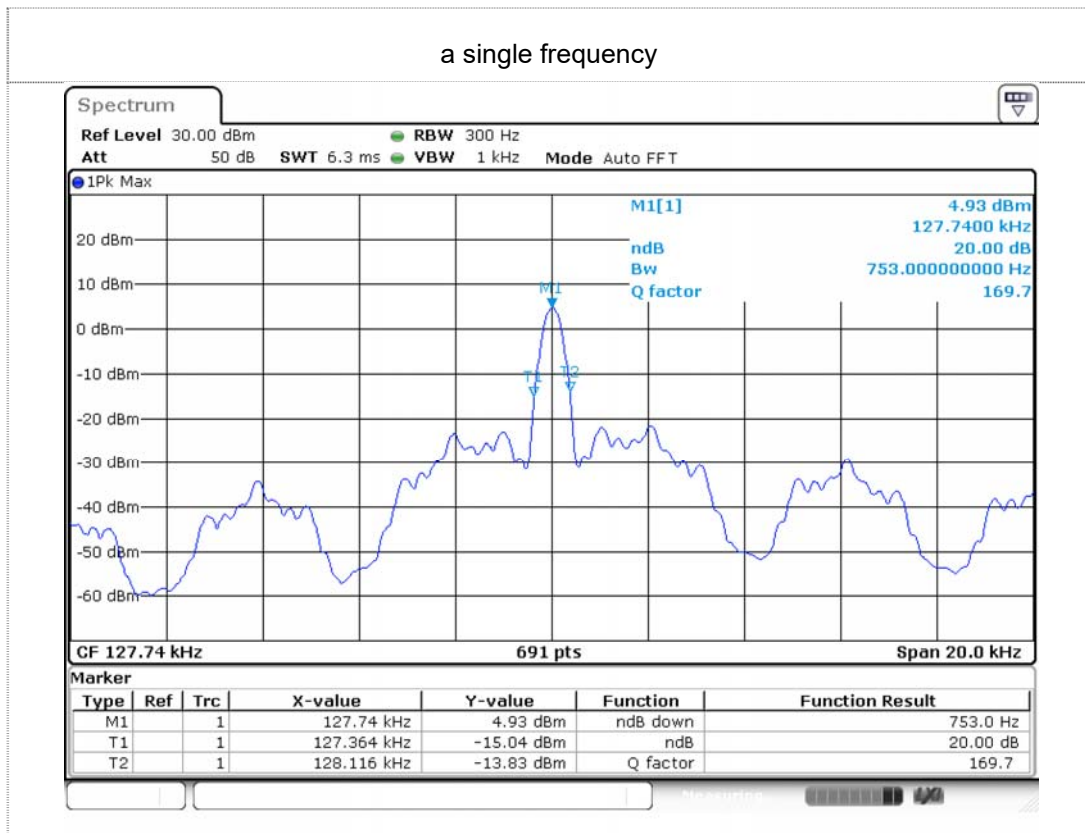


4.3 TEST RESULT

EUT:	Wireless 5-in-1 Pad with 12W USB-A	Model Name. :	AWC1136
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Mode 16
Test Power :	AC 120V/60HZ		

99% Bandwidth-a single frequency(Hz)	F _L (kHz)	F _H (kHz)
753	127.364	128.116

a single frequency



5. ANTENNA APPLICATION

5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2 Result

The EUT antenna is permanent attached antenna. It complies with the standard requirement.

END REPORT