



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AW0071063(6) Date : 21 Dec 2018

Application No. : LW025881(2)

Applicant : KODA ELECTRONICS (HK) CO., LTD.
2/F MANDARIN COMMERCIAL HOUSE,
38 MORRISON HILL ROAD, WANCHAI,
HONG KONG

Buyer / Brand name : NONSTOP

Sample Description : One(1) item of submitted sample stated to be

Sample description	Model No
Alarm Clock/Charging station with Dual USB and Qi Wireless (Black) US ver.	Station W-Black
Alarm Clock/Charging station with Dual USB and Qi Wireless (White/Wood.) US ver.	Station W-White/Wood

Sample registration No. : RW035893-001, RW035893-002

Radio Frequency : 155.15KHz

Supply voltage : AC100-240 to DC9V adaptor
Model: OBL-0903500U

No. of submitted sample : (Two) set(s)

Date Received : 20 Aug 2018.

Test Period : 20 Aug 2018 to 31 Aug 2018.

Test Requested : RF Exposure

Test standard : KDB 680106 D01 RF Exposure Wireless Charging App v03
47 CFR Part 2 section 2.1091

Test Result : See attached sheet(s) from page 2 to 14.

Conclusion : The submitted sample complies with RF Exposure requirements.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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Remark : All Two models are the same in circuitry and components; and therefore model Station W-Black was chosen to be the representative of the test sample. The difference(s) between the tested model and the declared model(s) is/are: Model no. and Color. This report supersedes the test report no. AW0052539(2) issued on 04 Sep 2018.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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1 General Information

1.1 General Description

The Station W is a digital clock with Wireless, USB charging and dual alarm clock functions. It was powered by AC100-240V to DC9V adaptor with maximum 3.5A output current.

Once the Time, Date and Alarm set correctly, the current time and setting will be showing on the LED display. The end user can access all functions by pressing SNOOZE/DIMMER, Alarm and Backlight switch.

Two USB charging ports are located on the front panel and one wireless charging pad located on the top of Station W.

The symbol “+” provides 1A charging current and symbol “++” provides 2.4A. The maximum power of wireless charging pad is maximum 10W. No data communication for both USB ports and wireless charging pad for portable devices.

The brief circuit description is listed as follows:

- M835 and its associated circuit act as alarm clock and LED controller.
- X1 32.768KHz crystal and its associated circuit act as oscillator for MCU M835.
- X2001, AS5003 and its associated circuit act as USB charging controller.
- U2(6206), U3(54C), U5(IC6118) and its associated circuit act as voltage controller for MCU M835.
- U5(IC 7113) and its associated circuit act as voltage controller for wireless charging pad.
- U4 and wireless charging pad and its associated circuit act as wireless charging.
- Q2 – Q5 (AON7410), and its associated circuit act as voltage controller.
- U1 BEE301 and U2 LM324 (U2A – U2E) and its associated circuit act as voltage controller for wireless charging.

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1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2014. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2014. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

FCC Accredited Lab (Designation Number: HK0004)



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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
Field meter	Wave control	SMP2	17SN0649	19 Dec 2019	2 years
Field probes	Wave control	WP400	17WP100 365	19 Dec 2019	2 years

Supporting equipment:

- 1) USB dummy loading 1A (submitted by applicant)
- 2) USB dummy loading 2.4A (submitted by applicant)
- 3) Wireless dummy loading 10W (submitted by applicant)



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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

RF Exposure

Test Item	Uncertainty
Electric Field Strength (E)	+/- 4.3%
Magnetic Field Strength (H)	+/- 4.3%

1.5 Test Summary

Test Item	FCC Reference	Result
Electric Field Strength (E) (V/m)	47 CFR Part 1, 1.1310	Comply
Magnetic Field Strength (H) (A/m)	47 CFR Part 1, 1.1310	Comply

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2 Description of the radiated emission test

2.1 Test Procedure

Electric Field Strength (E) (V/m) and Magnetic Field Strength (H) (A/m) are investigated and taken pursuant to the procedures of KDB 680106 D01 RF Exposure Wireless Charging App v03.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 0.4m x 0.8m (L x W x H) above the reference ground plane.

The aggregate H-field and E-Field strengths measured at 15 cm surrounding the EUT and 20 cm above the top surface from all simultaneous transmitting coils. Measurements made from all sides and the top of the primary/client pair, with the 15cm or 20cm distance between center of the probe(s) and edge of the device.

A dummy wireless loading was placed on the top of transmitting coil for charging mode operation.



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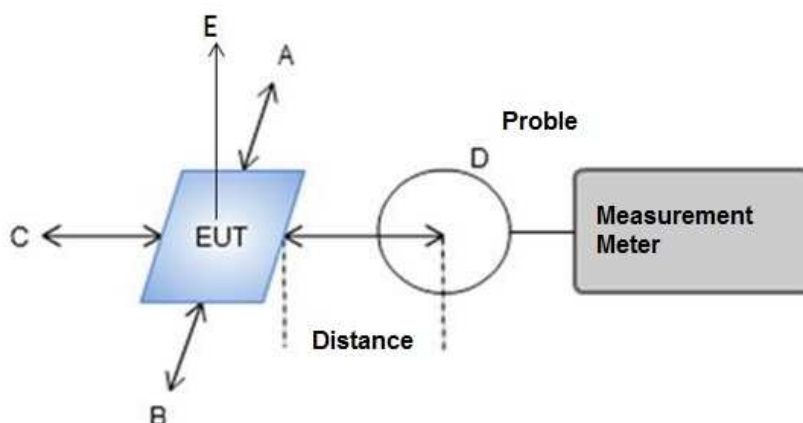
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2.2 Test Setup



Position of EUT



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2.3 RF Exposure Measurement Data

Environmental conditions:

Ambient temperature: 24.5 °C

Relative humidity: 69.2 %

Operation Mode: Charging mode

Electric field

Maximum Permissible Exposure				
Probe from EUT position	Separation	E-field (V/m)	E-field limit (V/m)	E-field margin (V/m)
A	15cm	2.14	614	-611.86
B	15cm	2.85	614	-611.15
C	15cm	3.56	614	-610.44
D	15cm	3.16	614	-610.84
E	20cm	2.64	614	-611.36

Magnetic Field

Maximum Permissible Exposure				
Probe from EUT position	Separation	H-field (A/m)	H-field limit (A/m)	H-field margin (A/m)
A	15cm	0.03	1.63	-1.60
B	15cm	0.02	1.63	-1.61
C	15cm	0.05	1.63	-1.58
D	15cm	0.02	1.63	-1.61
E	20cm	0.08	1.63	-1.55

Test Result:

It was found that the EUT meet the FCC requirements

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Environmental conditions:

Ambient temperature: 24.5 °C

Relative humidity: 69.2 %

Operation Mode: Standby mode

Electric field

Maximum Permissible Exposure				
Probe from EUT position	Separation	E-field (V/m)	E-field limit (V/m)	E-field margin (V/m)
A	15cm	1.91	614	-612.09
B	15cm	1.87	614	-612.13
C	15cm	2.32	614	-611.68
D	15cm	2.46	614	-611.54
E	20cm	1.87	614	-612.13

Magnetic Field

Maximum Permissible Exposure				
Probe from EUT position	Separation	H-field (A/m)	H-field limit (A/m)	H-field margin (A/m)
A	15cm	0.02	1.63	-1.61
B	15cm	0.02	1.63	-1.61
C	15cm	0.03	1.63	-1.60
D	15cm	0.02	1.63	-1.61
E	20cm	0.07	1.63	-1.56

Test Result:

It was found that the EUT meet the FCC requirements.

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3 Appendices

A1.	External Photo	1	page(s)
A2.	Test setup	1	page(s)

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A1. External Photo



External Photo Black color



External Photo White color

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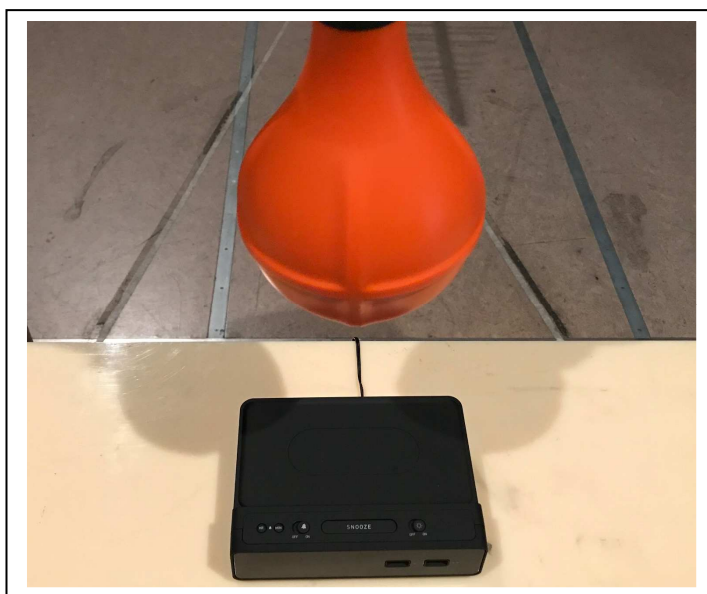
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A2. Test Setup



Charging mode



Standby mode

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