

RF Exposure Report

Report No.: SA160411E01

FCC ID: QWOB8Z869

Test Model: TV Transmitter

Series Model: Smart Transmitter

Received Date: Apr. 11, 2016

Test Date: Apr. 25, 2016

Issued Date: May 17, 2016

Applicant: Rayson Technology Co., Ltd

Address: 1F, No.9, R&D II Road, Science-Based Industrial Park, Hsin-Chu, Taiwan
300

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Taiwan R.O.C.

Test Location (1): E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin
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Release Control Record

Issue No.	Description	Date Issued
SA160411E01	Original release.	May 17, 2016

1 Certificate of Conformity

Product: TV Transmitter, Smart Transmitter

Brand: Signia, Connexx

Test Model: TV Transmitter

Series Model: Smart Transmitter

Sample Status: ENGINEERING SAMPLE

Applicant: Rayson Technology Co., Ltd

Test Date: Apr. 25, 2016

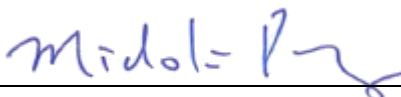
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



Date:

May 17, 2016

Midoli Peng / Specialist

Approved by :



Date:

May 17, 2016

May Chen / Manager

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Type	Antenna Connector	Antenna Gain (dBi)	Frequency (GHz to GHz)
PCB	NA	-0.26	2.4~2.4835

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	6.339	-0.26	20	0.00119	1

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