

RADIO FREQUENCY EXPOSURE EVALATION

General Information

Applicant : WUXI MOC TECHNOLOGY CO., LTD.
EUT Description : Wall Switch
Model No. : MVR01/MWS01/MWS02
Radio Tech : FSK
Frequency : 433.92MHz

Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.
Site Location : 3F, Building 34, No. 680 Guiping Rd.,
Caohejing, Hi-Tech Park, Shanghai 200233, China
NVLAP, Lab Code : 200371-0
FCC Designation Number : CN5027
Test Firm Registration Number: 954668

Results

The EUT is operated as one portable device, and it is compliant with the RF Exposure Exemption.



For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Producer :

Huimin Yan

HUIMIN YAN / Assistant

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Authorized Signature(s).

Jarey Lu

JAREY LU / Deputy Assistant Manager

Evaluation Method

KDB 447498 D04 Interim General RF Exposure Guidance v01

Applicable Standard:

KDB 447498 D04 v01:

Section 2.1.2 1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

FCC CFR 47 §1.1307(b)(3)(i)(A):

A single RF source is exempt if The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

KDB 412172 D01 Determining ERP and EIRP v01r01:

Section 1.1. For Field Strength Approach(linear terms):

$$\text{eirp} = p_t \times g_t = (E \times d)^2 / 30$$

where p_t = transmitter output power in watts, g_t = numeric gain of the transmitting antenna (unitless), E = electric field strength in V/m, d = measurement distance in meters (m).

$$\text{erp} = \text{eirp} / 1.64 = (E \times d)^2 / (30 \times 1.64)$$

where all terms are as previously defined.

Section 1.3 Relationship Between ERP and EIRP:

$$\text{ERP} = \text{EIRP} - 2.15 \text{ dB.}$$

RF Exposure evaluation:

Mode	Max. Measured value		Measurement distance (d)	E.I.R.P		1-mW Exemption
	dBuV/m @3m	V/m @3m	m	W	mW	mW
TX 433.92MHz	83.87	0.015613	3	0.000073	0.073	1

Note: For this EUT, the Maximum E.I.R.P is no greater than the 1-mW exemption, that meets the exemption requirement, the RF exposure evaluation is not required.

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