

RF Exposure Evaluation

of

E.U.T. : UHF PLL Dual Channel True
Diversity Receiver
FCC ID. : INGRU-901DU
Model No. : RU-901Du
Working Frequency : 2412~2424MHz

for

APPLICANT : JTS Professional Co., Ltd.
ADDRESS : No. 148, Gongye 9th Road, Tali Dist., Taichung City
41280 Taiwan, R.O.C.

Test Performed by

Taiwan Testing and Certification Center
No.34, Dingfu, Linkou Dist., New Taipei City 244, Taiwan (R.O.C.)
TEL : (02)26023052 FAX : (02)26010910
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Taiwan Testing and Certification Center

Report Number : 23-11-RBF-010-02

TEST REPORT CERTIFICATION

Applicant : JTS Professional Co., Ltd.
 No. 148, Gongye 9th Road, Tali Dist., Taichung City 41280
 Taiwan, R.O.C.

Manufacturer : JTS Professional Co., Ltd.
 No. 148, Gongye 9th Road, Tali Dist., Taichung City 41280
 Taiwan, R.O.C.

Description of EUT :

a) Type of EUT : UHF PLL Dual Channel True Diversity Receiver
 b) Trade Name : JTS
 c) Model No. : RU-901Du
 d) FCC ID : INGRU-901DU
 e) Working Frequency : 2412~2424MHz
 f) Antenna Gain : 0.5 dBi (chip ANT)
 g) Modulation Type : FSK

Regulation Applied: FCC KDB447498 D01. The equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of section 1.1310 of FCC 47 CFR Part 1.

Note:

1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC

Issued Date : Dec. 14, 2023

Test Engineer : Brian Huang
(Brian Huang, Engineer)



Approve & Authorized :

Kevin Lee
 Kevin Lee
 Section Manager of EMC Testing Department II

Conducted Test Equipment:

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP40	2023/06/16	2024/06/15

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted Measurement	30MHz ~ 1GHz	±0.88dB (30MHz < f ≤ 1GHz)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

The test result(s) does not consider the uncertainty of measurement when the test standard(s) and/or test method which refer by the labs has the limit or judgments for the test result(s).

Product Information:

Type of EUT: UHF PLL Dual Channel True Diversity Receiver

FCC ID: INGRU-901DU

Model: RU-901Du

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

The max. average power of channel, including tune-up tolerance (mW) is 0.557mW @ 2424MHz (With Tune-up tolerance),

The min. test separation distance (mm) is 5 mm,

So, $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.17344 < 3.0$ (With Tune-up tolerance).

Therefore, standalone SAR measurements are not required for both head and body.

Antenna Information

Brand	Model Name	Antenna Type	Gain (dBi)
ACX	AT3216 -B2R7HAA	Chip Antenna	0.5

Note : The manufacturer declared the Antenna information.