



WTS800

**Report #: RESI-27003
FCC ID: CFS8DLWTS800**

**RF EXPOSURE EVALUATION
2.4 GHz WLAN wireless touchscre
Issue Date: 2025-12-27**

Prepared by and for:
**Resideo LLC.
2 Corporate Center Dr.
Suite 100 PO Box 9040
Melville, NY 11747**

Testing
NVLAP Lab Code: 600110



Testing
NVLAP Lab Code: 600110



Report# RESI-27003

Test Report Revision History				
Revision	Prepared By	Reviewed By	Revision Detail	Release Date
V0	Jose Badia	Christian Fouth	Original Release	2025-12-27



Report# RESI-27003

Contents

ATTESTATION OF TEST RESULTS.....	1
1. FCC RULES CONCERNING MAXIMUM PERMISSIBLE RF EXPOSURE.....	1
§ CFR 47 1.1310 Radiofrequency radiation exposure limits.....	1
2. UUT POWER OUTPUT AND ANTENNA GAIN	1
2.1. MPE CALCULATIONS	2



Report# RESI-27003

ATTESTATION OF TEST RESULTS

Company Name: Resideo LLC., 2 Corporate Center Dr., Melville, NY 11747, USA

EUT Description: 2.4 GHz WLAN Wireless Touchscreen

Model: WTS800

Serial Number: Non-Serialized units

Standards

Specification
FCC §1.1310

Report Prepared By:

Jose Badia

Name: Jose Badia

Title: Regulatory Certification Engineer

Resideo LLC.

Reviewed & Approved By:

Christian Fouth

Name: Christian Fouth

Title: Sr. Wireless Certification Engineer

Resideo LLC.

1. FCC RULES CONCERNING MAXIMUM PERMISSIBLE RF EXPOSURE:

§ CFR 47 1.1310 Radiofrequency radiation exposure limits.

The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation."

NOTE TO INTRODUCTORY PARAGRAPH:

These limits are generally based on recommended exposure guidelines published by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3. Copyright NCRP, 1986, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, exposure limits for field strength and power density are also generally based on guidelines recommended by the American National Standards Institute (ANSI) in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers.

2. UUT POWER OUTPUT AND ANTENNA GAIN

The maximum conducted output power is measured as 23.13 dBm at antenna port and the max antenna gain is 2.59 dBi. This corresponds to a EIRP of 25.72 dBm at 2.4 GHz.

The power density limit at 2.4 GHz is 1 mW/cm²

2.1. MPE CALCULATIONS:

FCC GENERAL POPULATION / UNCONTROLLED EXPOSURE LIMITS:FOR 300 MHz to 1,500 MHz use F / 1500 mW/cm²FOR 1,500 to 100,000 MHz use 1 mW/cm²EQUATIONS:MAX AVG EIRP (mW) = $10^{\{(MAX\ COND\ PWR. + ANT\ GAIN + DUTY\ FACTOR)/10\}}$ THE FRIIS TRANSMISSION EQUATION = $EIRP \times DUTY\ CYCLE / (4 \times \pi \times 20\ cm^2)$ **BANDS AND FCC IDs**

BAND	FCC ID
2.4 GHz	CF8DLWTS800

BAND:	CH No:	FREQ (Mhz)	TRP (dBm)	MAX COND. PWR (dBm)	ANTENNA GAIN (dBi):	DUTY FACTOR (dB)	MAX AVG EIRP (mW)	FRIIS mW/CM ²	EXP LIMIT mW/CM ²	% OF LIMIT
2.4 GHz	N/A	2.4 GHz	N/A	23.13	2.59			0.0743	1	7.43

MAXIMUM MPE OF THE Wi-Fi chip AS % OF LIMIT IS:	7.43
---	------

RESULTS:

TEST RESULT: PASS

In the configuration tested the EUT complied with the standards specified above.