



TEST REPORT

Applicant Name : Congress Network Corporation
Address : 7235 NW 19th CT, Hollywood, Florida 33024, United States
Report Number : 2504Y13176E-RF-00B
FCC ID: 2ABY4T500CLOUD

Test Standard (s)

FCC PART 2.1091

Sample Description

Product Name: T500 CLOUD FM Transmitter
Model No.: T500-CLOUD
Trade Mark: **ENERSOUND**
Date Received: 2025-10-16
Report Date: 2025-12-01

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Approved By:

Bob. Liao

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EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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TABLE OF CONTENTS

DOCUMENT REVISION HISTORY 3

GENERAL INFORMATION 4

 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 4

 OBJECTIVE 4

 TEST FACILITY 4

RF EXPOSURE 5

 APPLICABLE STANDARD..... 5

 RESULT 5

EXHIBIT A-EUT PHOTOGRAPHS 6

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Y13176E-RF-00B	Original Report	2025-12-01

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	T500 CLOUD FM Transmitter
Tested Model	T500-CLOUD
Voltage Range [#]	DC 15.0V from Adapter
Adapter Information [#]	Model: WT24-1501000-T Input: 100-240V~ 50/60Hz 1.6A Output: 15.0V ---1.0A 15.0W
Note: The EUT have two antenna connectors. One is top antenna connector for tabletop use; the other is remote antenna connector for rack mounting. Use only one antenna connector at a time.	

Frequency Range	FM: 72-76MHz
Maximum E-Field Strength (Peak)	97.76 dBuV/m@3m
Antenna Specification [#]	External Antenna, Antenna gain: 0dBi (It is provided by the applicant.)
Sample Serial Number	3BD3-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For worst case:

Frequency (MHz)	EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBm)	(mW)			
72-76	2.56	1.8	20	0.00036	0.2

Note: E(dBuV/m)=EIRP(dBm)-95.2 for distance 3m

Use the highest E-field strength(97.76 dBuV/m) for the evaluation,

so the EIRP= 97.76 dBuV/m-95.2=2.56 dBm

Result: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Y13176E-RF EUT External Photos and Attachment No.2 2504Y13176E-RF EUT Internal Photos.

***** END OF REPORT *****