

TEST REPORT

FCC ID..... :	2AV7N-DPSLINE	
Test Report No..... :	TCT251125E035	
Date of issue..... :	Jan. 23, 2026	
Testing laboratory..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	GUANGZHOU RANTION TECHNOLOGY CO., LTD.	
Address..... :	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No.28 Huangpu Park West Road, Huangpu District, Guangzhou, China	
Manufacturer's name ... :	GUANGZHOU RANTION TECHNOLOGY CO., LTD.	
Address..... :	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No.28 Huangpu Park West Road, Huangpu District, Guangzhou, China	
Standard(s)..... :	KDB 447498 D01 General RF Exposure Guidance v06 FCC CFR Title 47 Part 2.1093	
Product Name..... :	DIGITAL PIANO	
Trade Mark..... :	DONNER, MouKey, Eastar	
Model/Type reference..... :	Refer to model list of page 3	
Rating(s)..... :	Adapter Information: MODEL: XSG-1203000DEX INPUT: AC 100-240V, 50/60Hz, 0.8A Max OUTPUT: DC 12.0V, 3.0A, 36.0W	
Date of receipt of test item..... :	Nov. 25, 2025	
Date (s) of performance of test..... :	Nov. 25, 2025 ~ Jan. 23, 2026	
Tested by (+signature) ... :	Yannie ZHONG	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	DIGITAL PIANO
Model/Type reference.....:	DP-S500
Sample Number.....:	TCT251125E034-0101
Operation Frequency	2402MHz~2480MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.81dBi
Rating(s).....:	Adapter Information: MODEL: XSG-1203000DEX INPUT: AC 100-240V, 50/60Hz, 0.8A Max OUTPUT: DC 12.0V, 3.0A, 36.0W

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	DP-S500	☒
Other models	DDP-55, DDP-65, DDP-70, DDP-75, DDP-300 Pro, DDP-600, DDP-700, DDP-800, DGP-100, DGP-200, DGP-300, DGP-400, DGP-500, DGP-600, DEP-10 Lite, DEP-15, DEP-18, FunKeys, DHP-60, DHP-60 Pro, DHP-70, DHP-70 Pro, DHP-90, DHP-90 Pro, DHP-500 Pro, DHP-600 Pro, A100, A200, A300, A400, B100, B200, B300, B400, C100, C200, C300, C400, D100, D200, D300, D400, E100, E200, E300, E400, F100, F200, F300, F400, G100, G200, G300, G400, H100, H200, H300, H400, I100, I200, I300, I400, J100, J200, J300, J400, K100, K200, K300, K400, L100, L200, L300, L400, M100, M200, M300, N400, O100, O200, O300, O400, P100, P200, P300, P400, Q100, Q200, Q300, Q400, T100, T200, T300, T400, U100, U200, U300, U400, V100, V200, V300, V400, W100, W200, W300, W400, X100, X200, X300, X400, Y100, Y200, Y300, Y400, Z100, Z200, Z300, ZA400	☐

Note: DP-S500 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and trademarks. So the test data of DP-S500 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	AC 120V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

According to KDB 447498 D01 General RF Exposure Guidance v06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

- BDR+EDR:

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 39	2.441	4.26	4 $\pm$ 1	5	3.16	5	0.99	3.0

Result:

Base on the calculation value, No SAR measurement is required.

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