



FCC RF EXPOSURE REPORT

For

2.1 Dolby Atmos Sound Bar with Built-in Subwoofers

MODEL NUMBER: TS8111

FCC ID: 2ARUDTS8111

IC: 24579-TS8111

REPORT NUMBER: 4789592046.3-7

ISSUE DATE: August 24, 2020

Prepared for

TCL Entertainment Solutions Limited

**7/F, building 22E, 22 science park east avenue, Hong Kong science park, SHATIN,
N.T. Hong kong 999077 China (Peoples Republic Of)**

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
--	08/24/2020	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TCL Entertainment Solutions Limited
Address: 7/F, building 22E, 22 science park east avenue, Hong Kong
science park, SHATIN, N.T. Hong kong 999077 China
(Peoples Republic Of)

Manufacturer Information

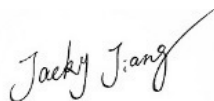
Company Name: TCL OVERSEAS MARKETING LTD
Address: 7 Fl, Bldg 22E, 22 Science Park East Avenue HK Science Park
Shatin Hong Kong N/A China (Peoples Republic Of)

EUT Description

Product Name 2.1 Dolby Atmos Sound Bar with Built-in Subwoofers
Brand Name TCL
Model Name TS8111
Serial Number TDS8111 FS8111,OS8111,Alto 8i,***8111
Model Difference TDS8111 FS8111,OS8111,Alto 8i,***8111, ("**" can be any
alphanumeric character including blank for marketing differences)
Date Tested August 10, 2020~ August 24, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	Complies

Prepared By:



Jacky Jiang
Engineer Project Associate

Checked By:



Shawn Wen
Laboratory Leader

Approved By:



Stephen Guo
Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Test Location	Dongguan Dongdian Testing Service Co., Ltd
Address	No. 17, Zongbu Road 2, Songshan Lake Sci&Tech Park, Dongguan City, Guangdong Province, 523808, China
Accreditation Certificate	Dongguan Dongdian Testing Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until January 31, 2018. Dongguan Dongdian Testing Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 270092, Renewal date March 11, 2015, valid time is until March 11, 2018. The 3m Alternate Test Site of Dongguan Dongdian Testing Service Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 10288A on April 23, 2015, valid time is until April 23, 2018.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR 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 guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (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

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

BT Mode					
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2480	5.0	3.16	0.017	1.0	Complies

Note: 1. Antenna Gain=4.24dBi (Numeric 2.65), $\pi=3.141$.
2. The Power comes from report 4789592046.3-5.
3. The minimum separation distance of the device is greater than 20 cm.
4. Calculate by WORST-CASE mode.
5. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.

END OF REPORT