

**Shenzhen Global Test Service Co.,Ltd.**

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

RF Exposure evaluation**Report Reference No.....: GTS20250616018-2-02****FCC ID.: 2BVWW-B28**

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Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

Address: Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

Applicant's name.....: Zefeng Audio Technology (Shenzhen) Co., Ltd

Address: A3 Building, 2th Lixin Road, Fuyong, Baoan, Shenzhen, Guangdong, China

Test specification Standard.....: **47CFR §1.1310 Basis and purpose**
47CFR §2.1091 Radiofrequency radiation exposure evaluation:
mobile devices**KDB447498 D01 General RF Exposure Guidance v06**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF: Dated 2014-12

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Test item description **subwoofer**

Trade Mark.....: N/A

Manufacturer: Zefeng Audio Technology (Shenzhen) Co., Ltd

Model/Type reference: B28

Listed Models: QY-D400S, QY-D400S II, QY-D400R, QY-D400R II, QY-D400E, QY-D400E II, B28 V1, B28 V2, B28 V3, B28 V4, B28 V5, B28 V6, B28 V7, B28 V8, B28 V9, SJ-M-C28r, SJ-M-C28r V1, SJ-M-C28r V2, SJ-M-C28r V3, SJ-M-C28r V4, SJ-M-C28r V5, B10R, B10R V1, B10R V2, B10R V3, B10R V4, B10R V5, B10R V6, B10R V7, B10R V8, B10R V9, WS-D10, WS-D10 V1, WS-D10 V2, C28R, C28R V1, C28R V2, C28R V3, C28R V4, C28R V5, C28R V6, C28R V7, C28R V8, C28R V9, A10R, A10R V1, A10R V2, A10R V3, A10R V4, A10R V5, A10R V6, A10R V7, A10R V8, A10R V9

Hardware Version: W2273_M_V3.0

Software Version.....: N/A

Rating.....: AC 100V-120V, 60Hz/ AC 220V-240V, 50Hz

Result: **PASS**

TEST REPORT

Test Report No. :	GTS20250616018-2-02	Jun.16, 2026
		Date of issue

Equipment under Test : subwoofer

Model /Type : B28

Listed model : QY-D400S, QY-D400S II, QY-D400R, QY-D400R II, QY-D400E, QY-D400E II, B28 V1, B28 V2, B28 V3, B28 V4, B28 V5, B28 V6, B28 V7, B28 V8, B28 V9, SJ-M-C28r, SJ-M-C28r V1, SJ-M-C28r V2, SJ-M-C28r V3, SJ-M-C28r V4, SJ-M-C28r V5, B10R, B10R V1, B10R V2, B10R V3, B10R V4, B10R V5, B10R V6, B10R V7, B10R V8, B10R V9, WS-D10, WS-D10 V1, WS-D10 V2, C28R, C28R V1, C28R V2, C28R V3, C28R V4, C28R V5, C28R V6, C28R V7, C28R V8, C28R V9, A10R, A10R V1, A10R V2, A10R V3, A10R V4, A10R V5, A10R V6, A10R V7, A10R V8, A10R V9

Applicant : **Zefeng Audio Technology (Shenzhen) Co., Ltd**

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Manufacturer : **Zefeng Audio Technology (Shenzhen) Co., Ltd**

Address : A3 Building, 2th Lixin Road, Fuyong, Baoan, Shenzhen, Guangdong, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

● /	Length (m) :	/
	Shield :	/
	Detachable :	/

1.2 Product Description

Product Name	subwoofer
Trade Mark	N/A
Model/Type reference	B28
List Models	QY-D400S, QY-D400S II, QY-D400R, QY-D400R II, QY-D400E, QY-D400E II, B28 V1, B28 V2, B28 V3, B28 V4, B28 V5, B28 V6, B28 V7, B28 V8, B28 V9, SJ-M-C28r, SJ-M-C28r V1, SJ-M-C28r V2, SJ-M-C28r V3, SJ-M-C28r V4, SJ-M-C28r V5, B10R, B10R V1, B10R V2, B10R V3, B10R V4, B10R V5, B10R V6, B10R V7, B10R V8, B10R V9, WS-D10, WS-D10 V1, WS-D10 V2, C28R, C28R V1, C28R V2, C28R V3, C28R V4, C28R V5, C28R V6, C28R V7, C28R V8, C28R V9, A10R, A10R V1, A10R V2, A10R V3, A10R V4, A10R V5, A10R V6, A10R V7, A10R V8, A10R V9
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different , So no additional models were tested.
Power supply:	AC 100V-120V, 60Hz/ AC 220V-240V, 50Hz
Sample ID	GTS20250616018-2-S0001-1#GTS20250616018-2-S0001-2#
SRD(5.8G)	
Operation frequency	5727-5848MHz
Modulation Type	DSSS,OFDM
Channel Number	122 channels
Antenna Description	PCBAntenna, 2.0dBi

2. TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

2.2 Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1401.

FCC Registered Test Site Number is 684561.

2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Global Test Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

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

3. METHOD OF MEASUREMENT

3.1 Applicable Standard

According to §1.1307(b)(1), 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 guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2 Requirement

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.

In accordance with KDB447498 D01 General RF Exposure Guidance v06 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3.3 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

3.4 MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is 2.00dBi for SRD&WCDMA&LTE, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained.

3.5 Antenna Information

B28 can only use antennas certificated as follows provided by manufacturer;

Internal Identification	Antenna Identification in Internal photos	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Antenna	SRD(5.8G) ANT	PCB	5.0 – 6.0 GHz	2.00dBi (Max.) for 5G Band

4. Conducted Power Results

SRD

Mode	Channel	Frequency (MHz)	Measure Result (PK, dBuV/m)	EIRP(dBm)	Antenna Gain (dBi)	Conducted Power (dBm)
5.8G	1	5727	94.62	-0.61	2.00	-2.61
	61	5787	94.77	-0.46	2.00	-2.46
	122	5848	94.90	-0.33	2.00	-2.33

5. Manufacturing Tolerance

SRD			
5.8G			
Channel	Channel 1	Channel 61	Channel 122
Target (dBm)	-2.00	-2.00	-2.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

6. Measurement Results

6.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

SRD						
Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
5.8G	-1.00	0.7943	2.00	1.5849	0.0003	1.00

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06, No SAR is required.

.....End of Report.....