

RF Exposure Report

For

Applicant Name: Shenzhen Zhengyun Technology Co., LTD

Room 202, Floor 2, Building A, Rongcheng International, 24

Address: Heping Road, Qinghua Community, Longhua District,

Shenzhen, China

EUT Name: Bluetooth speaker

Brand Name: N/A Model Number: F9

Series Model Number: Refer to section 2

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF230717R01902

Test Standards: 47 CFR Part 2 Subpart J Section 2.1091

FCC ID: 2A5TA-F9

Test Conclusion: Pass

Test Date: 2023-07-15 to 2023-07-25

Date of Issue: 2023-07-26

Prepared By: Elma Kang

elma.yang / Project Engine

Date: 2023-07-26

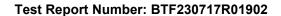
Diran CI / FMC Manag

Ryan.CJ / EMC Manage

Date: 2023-07-26

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Approved By:





Revision History					
Version Issue Date Revisions Content					
R_V0	2023-07-26	Original			
Note:	Once the revision has be	Once the revision has been made, then previous versions reports are invalid.			

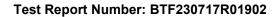




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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
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2. Product Information

2.1 Application Information

Company Name:	Shenzhen Zhengyun Technology Co., LTD		
Address:	Room 202, Floor 2, Building A, Rongcheng International, 24 Heping Road, Qinghua Community, Longhua District, Shenzhen, China		

2.2 Manufacturer Information

Company Name:	Shenzhen Zhengyun Technology Co., LTD		
Address:	Room 202, Floor 2, Building A, Rongcheng International, 24 Heping Road, Qinghua Community, Longhua District, Shenzhen, China		

2.3 Factory Information

Company Name:	Shenzhen Zhengyun Technology Co., LTD		
Address:	Room 202, Floor 2, Building A, Rongcheng International, 24 Heping Road, Qinghua Community, Longhua District, Shenzhen, China		

2.4 General Description of Equipment under Test (EUT)

EUT Name	Bluetooth speaker
Under Test Model Name	F9
Series Model Name	M16pro, M17pro, C18,858, C20, p60, P8, F18, H18, M16i, P18, i31, C10, M17, K12, M15pro, M31, M25, M41, H03, A30, B1, F9mini, AM-2301, S-1265, LY-3313, KTS-1335, K21, M6, S2, S3, S4, S5, S7, S8, S9, P6, K13, ZQS8122,B153, Q21, ZX-O1, E-4053, E-4052, Z6, E-3025, ZQS1430, ZQS1431, ZQS1438, Pro6, A2PRO, E7S, H01, A1, i91, i11, E-4038, E-4028, E-3061, E-3052, TV-1600, K22, K13, K15, K21, TV-1200
Description of Model name differentiation	Only the model name is different, the others are the same.



3. Test Requirement

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range	Electric field	Magnetic field strength	Power density	Averaging time	
(MHz)	strength(V/m)	(A/m)	(mW/cm ²)	(minutes)	
(A) Limits for Occupational/Controlled Exposures					
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	
(B) Limits for General Population/Uncontrolled Exposure					
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	

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale; **Pi** = 3.1416, **R** = distance between observation point and center of the radiator in cm

3.1 Assessment Result

\boxtimes	Passed	□ Not Applicable
\triangle	rasseu	☐ NOT Applicable

Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune- up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
BT-EDR	2480	5.98	6	0.0007	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.

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www.btf-lab.com

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