

RF Exposure Evaluation Report

Report Reference No...... : **MTEB26060230-H**

FCC ID..... : **2BW72-EF7**

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo

Supervised by

(position+printed name+signature)..: Test Engineer Sunny Deng

Approved by

(position+printed name+signature)..: Manager Yvette Zhou

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Representative Laboratory Name.: **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : **WENZHOU VICTORY ELECTRONIC TECHNOLOGY CO.,LTD.**

Address..... : South, 4th Floor, Building 1, No. 6 Fuda Road, Guoxi Subdistrict,
Ouhai District, Wenzhou City, Zhejiang Province, China.

Test specification/ Standard..... : **47 CFR Part 1.1307;47 CFR Part 1.1310**
KDB447498D01 General RF Exposure Guidance v06

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : Electronic Drum

Trade Mark..... : N/A

Model/Type reference..... : EF7

Listed Models : F50, EF5, EF6, EF8, F50-54, Stomp, N-tron,
Beat Master Pro

Modulation Type..... : GFSK, $\pi/4$ DQPSK, 8DPSK

Operation Frequency..... : From 2402MHz to 2480MHz

Hardware Version..... : V1.0

Software Version..... : V1.0

Rating..... : Electronic Drum Input: DC12V 1A
Adaptor input: 100-240V~ 50/60Hz 0.4A Max.
Output: DC12V 1.0A 12.0W

Result..... : **PASS**

TEST REPORT

Equipment under Test : Electronic Drum

Model /Type : EF7

Listed Models : F50, EF5, EF6, EF8, F50-54, Stomp, N-tron, Beat Master Pro

Remark : Only the model “EF7” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance colour is different.

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Manufacturer : **WENZHOU VICTORY ELECTRONIC TECHNOLOGY CO.,LTD.**

Address : South, 4th Floor, Building 1, No. 6 Fuda Road, Guoxi Subdistrict, Ouhai District, Wenzhou City, Zhejiang Province, 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.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.06.22	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (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

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure**BLE**

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	-0.88	-0.88 ± 1	0.12
Middle(2440MHz)	-0.83	-0.83 ± 1	0.17
Highest(2480MHz)	-1.65	-1.65 ± 1	-0.65

BLE

Worst case: GFSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Middle(2440MHz)	0.17	1.04	1.7	0.00031	1.0	Pass

Note: 1) Refer to report MTEB26060230-R for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (1.04 \cdot 1.48) / (4 \cdot 3.1416 \cdot 20^2) = 0.00031$

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.96	-0.96 ± 1	0.04
Middle(2441MHz)	-0.94	-0.94 ± 1	0.06
Highest(2480MHz)	-1.70	-1.70 ± 1	-0.7

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.05	-0.05 ± 1	0.95
Middle(2441MHz)	-0.04	-0.04 ± 1	0.96
Highest(2480MHz)	-0.76	-0.76 ± 1	0.24

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.35	0.35 ± 1	1.35
Middle(2441MHz)	0.37	0.37 ± 1	1.37
Highest(2480MHz)	-0.43	-0.43 ± 1	0.57

Worst case: 8DPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Middle(2441MHz)	1.37	1.37	1.7	0.00040	1.0	Pass

Note: 1) Refer to report MTEB26060230-R1 for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (1.37 * 1.48) / (4 * 3.1416 * 20^2) = 0.00040$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

.....THE END OF REPORT.....