

Shenzhen Most Technology Service Co., Ltd.

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RF Exposure Evaluation Report

Report Reference No...... MTEB25020112-H FCC ID...... 2AVJ8-FP2802

Compiled by

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Date of issue..... Feb.20,2025

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

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... DewertOkin Technology Group Co., Ltd.

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....: controller

Trade Mark..... N/A

Model/Type reference..... FP2802

Listed Models: N/A

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

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

Hardware Version......V1.0

Software Version...... 100

Rating...... DC 29V

Result.....: PASS

Report No.: MTEB25020112-H Page 2 of 5

TEST REPORT

Equipment under Test : controller

Model /Type : FP2802

Listed Models : N/A

Remark N/A

Applicant : DewertOkin Technology Group Co., Ltd.

Address No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing

City, Zhejiang Province, China.

Manufacturer : DewertOkin Technology Group Co., Ltd.

Address : No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing

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.

Report No.: MTEB25020112-H Page 3 of 5

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.02.20	Initial Issue	Alisa Luo

Report No.: MTEB25020112-H Page 4 of 5

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/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/ī 61.4	1.63 4.89/f 0.163	*(100) *(900/12) 1.0 f/300	6 6 6 6
***		on/Uncontrolled Exp	ASREEM.	
0.3–1.34 1.34–30	614 824/f	1.63 2.19/f	*(100) *(180/f²)	30
30–300	27.5	0.073	0.2	30
300–1500 1500–100,000			f/1500 1.0	30 30

F= Frequency in MHz

Friis Formula

Friis 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

Pd id 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.

Report No.: MTEB25020112-H Page 5 of 5

2.1.3 EUT RF Exposure

BT classic

GFSK				
Test channel	Test channel Peak Output Power Tune up tolera		Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	-1.492	-1.492±1	-0.492	
Middle(2441MHz)	-2.122	-2.122±1	-1.122	
Highest(2480MHz)	-2.216	-2.216±1	-1.216	

π /4DQPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	-0.627	-0.627±1	0.373	
Middle(2441MHz)	-1.266	-1.266±1	-0.266	
Highest(2480MHz)	-1.335	-1.335±1	-0.335	

8DPSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
2 555 Shaintei	(dBm)	(dBm)	(dBm)	
Lowest(2402MHz)	-0.133	-0.133±1	0.867	
Middle(2441MHz)	-0.774	-0.774±1	0.226	
Highest(2480MHz)	-0.917	-0.917±1	0.083	

Worst case: 8DPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Lowest(2402MHz)	0.867	1.22	1.225	0.00032	1.0	Pass

Note: 1) Refer to report MTEB25020112-R for EUT test Max Conducted average Output Power value.

Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(1.22*1.33)/(4*3.1416*202)=0.00032

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

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