

RF EXPOSURE Test Report

Report No. : MTi250820008-0108E2
Date of issue : 2025-09-23
Applicant : Shenzhen Gudsen Technology Co., Ltd.
Product : R25 Ultra True Torque DD Wheel Base
Model(s) : R25, R16, R21, R27, D11, D12
FCC ID : 2AMJR-R25

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	Shenzhen Gudsen Technology Co., Ltd.	
Applicant Address	Room 1903-1904, Building 3.Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China	
Manufacturer	Shenzhen Gudsen Technology Co., Ltd.	
Manufacturer Address	Room 1903-1904, Building 3.Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China	
Factory	Shenzhen Gudsen Technology Co., Ltd.	
Factory Address	Room 1903-1904, Building 3.Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China	
Product description		
Product name	R25 Ultra True Torque DD Wheel Base	
Trademark	MOZA	
Model name	R25	
Series Model(s)	R16, R21, R27, D11, D12	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2025-09-14 to 2025-09-22	
Test Result	Pass	
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1 RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

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 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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

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 = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

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

2 Measurement Result

BT:

Operation Frequency: 2402-2480MHz,
Power density limited: 1mW/ cm²

Antenna Type: PCB Antenna

Antenna gain: 0dBi

R=20cm

mW=10^{^(dBm/10)}

Antenna gain Numeric=10^{^(dBi/10)}= 10^{^(0/10)}=1

BT:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
		(dBm)		tune-up power (dBm)	(mW)	Gain (dBi)	Numeric		
2402	GFSK	-8.37	-8±1	-7	0.200	0	1.00	0.00004	1
2441		-7.18	-7±1	-6	0.251	0	1.00	0.00005	1
2480		-6.00	-6±1	-5	0.316	0	1.00	0.00006	1
2402	π/4-DQPSK	-8.45	-8±1	-7	0.200	0	1.00	0.00004	1
2441		-8.53	-8±1	-7	0.200	0	1.00	0.00004	1
2480		-6.22	-6±1	-5	0.316	0	1.00	0.00006	1
2402	8DPSK	-8.35	-8±1	-7	0.200	0	1.00	0.00004	1
2441		-7.46	-7±1	-6	0.251	0	1.00	0.00005	1
2480		-6.15	-6±1	-5	0.316	0	1.00	0.00006	1

Conclusion:

For the max result: 0.00006≤ 1.0 test exclusion threshold, No SAR is required.

Statement

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2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
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***** END OF REPORT *****