

## RF Exposure Evaluation Report

**Report Reference No.**.....: MTEB25060321-H

**FCC ID**.....: 2A2L5-346

Compiled by

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Date of issue.....: Jun.25,2025

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

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**Applicant's name**.....: **Qingdao Geoid Intelligence Technology Co., Ltd.**

Address.....: No. 201-8, Building 3, No. 168 Tianfeng South Road, Qingdao,  
China

**Test specification/ Standard**.....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

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

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**Test item description**.....: Spider Power Meter

Trade Mark.....: Geoid

Model/Type reference.....: PM500

Listed Models .....: N/A

Modulation Type.....: GFSK

Operation Frequency.....: GFSK: From 2402 - 2480MHz

Rating.....: DC 3.7V (by Battery)

DC 5V (by USB Port)

Hardware version.....: 1.0

Software version .....: 1.0

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

## TEST REPORT

Equipment under Test : Spider Power Meter

Model /Type : PM500

Listed Models N/A

Remark N/A

Applicant : **Qingdao Geoid Intelligence Technology Co., Ltd.**

Address : No. 201-8, Building 3, No. 168 Tianfeng South Road, Qingdao, China

Manufacturer : **Qingdao Geoid Intelligence Technology Co., Ltd.**

Address : No. 201-8, Building 3, No. 168 Tianfeng South Road, Qingdao, China

<b>Test Result:</b>	<b>PASS</b>
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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	2025.06.25	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**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion

### 2.1.3 EUT RF Exposure

BLE

Antenna Gain: -0.081dBi

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.38	2.38±1	3.38
Middle(2440MHz)	2.34	2.34±1	3.34
Highest(2480MHz)	2.77	2.77±1	3.77

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest (2480MHz)	2.77	3.77	2.38	0.74	3.0	Yes

Note: 1) Refer to report **MTEB25060321-R1** for EUT test Max Conducted average Output Power value.

ANT+

Antenna Gain: -0.081dBi

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
CH1(2457MHz)	-0.125	-0.125±1	0.875

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest (2457MHz)	-0.125	0.875	1.22	0.38	3.0	Yes

Note: 1) Refer to report **MTEB25060321-R2** for EUT test Max Conducted average Output Power value.

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