

RF Exposure Evaluation Report					
Report Reference No	MTEB24050313-H 2ALZG-324				
Compiled by (position+printed name+signature):	File administrators Alisa Luo				
Supervised by (position+printed name+signature):	File administrators Alisa Luo Alisa Luo Test Engineer Sunny Deng Sunny Deng Manager Yvette Zhou Wettern				
Approved by (position+printed name+signature):	Manager Yvette Zhou Witter				
Date of issue:	Мау.30,2024				
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:	Qingdao Magene Intelligence Technology Co., Ltd.				
Address:	No.126 Shuyu Road,Chengyang District, Qingdao,Shandong, China.				
Test specification/ Standard:					
TRF Originator	47 CFR Part 2.1093 Shenzhen Most Technology Service Co., Ltd.				
Shenzhen Most Technology Service					
Shenzhen Most Technology Service C material. Shenzhen Most Technology	whole or in part for non-commercial purposes as long as the co., Ltd. is acknowledged as copyright owner and source of the Service Co., Ltd. takes no responsibility for and will not assume reader's interpretation of the reproduced material due to its				
Test item description:	Spider Power Meter				
Trade Mark	Magene				
Manufacturer	Qingdao Magene Intelligence Technology Co., Ltd.				
Model/Type reference:	P0121302A				
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	:	P0121302A
Listed Models	:	N/A
Remark		N/A
Applicant	:	Qingdao Magene Intelligence Technology Co., Ltd.
Address	:	No.126 Shuyu Road,Chengyang District, Qingdao,Shandong, China.
Manufacturer	:	Qingdao Magene Intelligence Technology Co., Ltd.
Address	:	No.126 Shuyu Road,Chengyang District, Qingdao,Shandong, China.

Test Result:	PASS
--------------	------

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.: MTEB24050313-H Page 3 of 6

1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2024.05.30	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:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷ 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	Tune up tolerance	Maximum tune-up Power			
	(dBm)		(dBm)	(mW)		
Lowest(2402MHz)	1.454	1.454±1	2.454	1.76		
Middle(2440MHz)	1.002	1.002±1	2.002	1.59		
Highest(2480MHz)	1.513	1.513±1	2.513	1.78		

Worst case: GFSK						
Channel Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated	Exclusion	SAR Test	
		(dBm)	(mW)	threshold	threshold	Exclusion
Highest (2480MHz)	1.531	2.513	1.78	0.558	3.0	Yes

Note: 1) Refer to report MTEB24050313-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) (mW)			
CH1(2457MHz)	-0.201	-0.201±1	0.799	1.20		

Worst case: GFSK						
Channel Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated	Exclusion	SAR Test	
	(dBm)	(mW)	value	threshold	Exclusion	
Highest (2457MHz)	-0.201	0.799	1.20	0.376	3.0	Yes

Note: 1) Refer to report MTEB24050313-R2 for EUT test Max Conducted average Output Power value.

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