

RF Exposure Evaluation Report

Product : SLYPOD
Trade mark : MOZA
Model/Type reference : MS-280, MS-580, MS-280S
Serial Number : N/A
Report Number : EED32L00160902
FCC ID : 2AMJR-SLYPOD
Date of Issue : Jul. 31, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

Shenzhen Gudsen Technology Co., Ltd
6/F,10th Building, Jiuxiang Ling Industrial Park,
Ave Xili ,Nanshan District, Shenzhen, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:

Jay Zheng

Jay Zheng

Compiled by:

Alex Wu

Alex Wu

Reviewed by:

Ware Xin

Ware Xin

Approved by:

Kevin Yang

Kevin Yang

Date:

Jul. 31, 2019

Check No.:3096310050



2 Version

Version No.	Date	Description
00	Jul. 31, 2019	Original

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT.....	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	4
4.4 TEST LOCATION.....	5
4.5 DEVIATION FROM STANDARDS.....	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
5 SAR EVALUATION.....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1.1 <i>Standard Requirement</i>	6
5.1.2 <i>Limits</i>	6
5.1.3 <i>EUT RF Exposure</i>	7
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS.....	8

4 General Information

4.1 Client Information

Applicant:	Shenzhen Gudsen Technology Co., Ltd
Address of Applicant:	6/F,10th Building,Jiuxiang Ling Industrial Park,Ave Xili ,Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Gudsen Technology Co., Ltd
Address of Manufacturer:	6/F,10th Building,Jiuxiang Ling Industrial Park,Ave Xili ,Nanshan District, Shenzhen, China

4.2 General Description of EUT

Product Name:	SLYPOD
Model No.(EUT):	MS-280, MS-580, MS-280S
Test Model No.	MS-280
Trade Mark:	MOZA
EUT Supports Radios application	BT4.2 Single mode

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Test Power Grade:	N/A
Test Software of EUT:	EMI_Test_Tool_v1.3 (manufacturer declare)
Antenna Type:	Internal Antenna
Antenna Gain:	-2.54dBi
Power Supply:	DC 5V
Max Conducted Peak Output Power:	0.913dBm The Max Conducted Peak Output Power data refer to the report EED32L00160901
Sample Received Date:	Jun. 20, 2019
Sample tested Date:	Jun. 20, 2019 to Jul. 19, 2019
The tested sample(s) and the sample information are provided by the client. Model No.: MS-280, MS-580, MS-280S Only the model MS-280 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only the internal telescopic part of the telescopic length is different	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

5.1.2 Limits

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

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

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 ≤ 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

5.1.3 EUT RF Exposure

The tune-up power is 0 dBm +/- 1dB, therefore the highest tune-up power is
1.0 dBm (1.26 mW) @ 2402 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$(1\text{mW} / 5\text{mm}) * (2.402\text{GHz}^{0.5}) = 0.4$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.4 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00160901 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.