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RF Exposure Evaluation Report

Product HUAWEI M-Pencil

Trade mark HUAWEI Model/Type reference **CD52**

Serial Number : N/A

Report Number : EED32L00291602

FCC ID : 2ABWECD52 : Dec. 05, 2019 Date of Issue

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Test result **PASS**

Prepared for:

Sunwoda Electronic Co., Ltd. Floor 1,A,B,D District of Floor2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Prepared by:

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Date:

Dec. 05, 2019

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2 Version

Version No.	Date	Description		
00	Dec. 05, 2019		Original	
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General Information

4.1 Client Information

Applicant:	Sunwoda Electronic Co., Ltd.	
Address of Applicant:	Floor 1, A, B, D District of Floor2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China	
Manufacturer:	Sunwoda Electronic Co., Ltd.	
Address of Manufacturer:	Floor 1, A, B, D District of Floor2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China	
Factory:	Shenzhen Sunwoda Intelligent Hardware Co., Ltd.	
Address of Factory:	101, No. 6-6, Yanshan Road, Yanchuan Community, Yanluo Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China	

4.2 General Description of EUT

Product Name:	HUAWEI M-Pencil	
Model No.(EUT):	CD52	
Trade Mark:	HUAWEI	
EUT Supports Radios application:	5.0 BLE Single mode	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	715	73	
Modulation Type:	GFSK			
Test Power Grade:	Default			
Test Software of EUT:	STM32CubeMonitor-RF			
Antenna Type:	PIFA Antenna			
Antenna Gain:	-2.3 dBi			
Power Supply:	Li-ion Polymer Battery	82mAh 3.82V	(C.)	
Max Conducted Peak	BT5.0: 1.569 dBm			
Output Power:	The Max Conducted Peak Output Power data refer to the report EED32L00291601			
Sample Received Date:	Oct. 15, 2019	60	60	
Sample tested Date:	Oct. 15, 2019 to Nov. 26, 2019	(67)	(3)	
The tested sample(s) and t	he sample information are provided by t	the client.		





























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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.





































































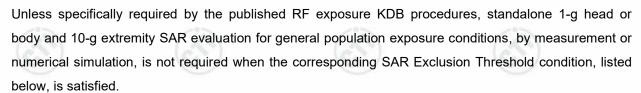
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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations



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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion











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5.1.3 EUT RF Exposure

The tune-up power is 1.00 dBm +/- 1dB, therefore the highest tune-up power is 1.57 dBm (1.44 mW) @ 2440 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,

(1.44mW / 5mm) * (2.440GHz ^0.5)= 0.4

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

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









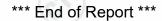




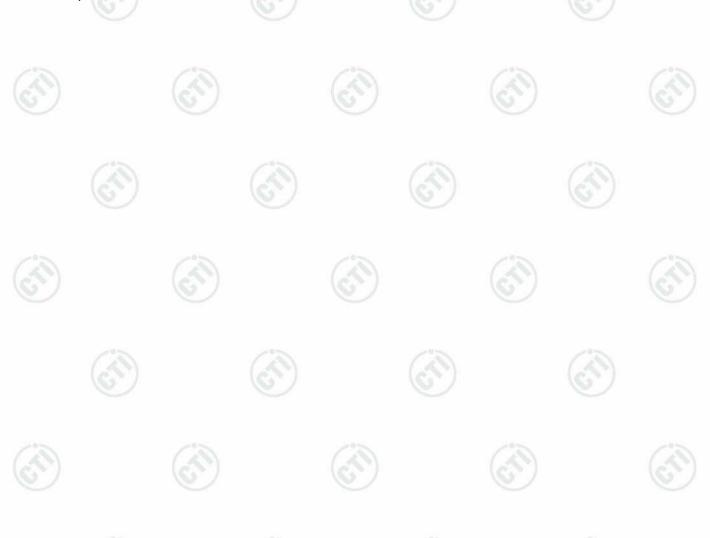
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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00291601 for EUT external and internal photos.



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