



RF Exposure Evaluation Declaration

Applicant: Shenzhen EPS Technology Co. LTD.
Address: 901, Tower 1, Louhu Investment Holding Building,
Qingshuihe 1 Road, Luohu, Shenzhen
Product: USB2.0 contactless connectivity
Model No.: SKL5010A, SKL5010B
Brand Name: EPS
Standards: EN 62479: 2010
BS EN 62479: 2010
Result: Complies
Evaluation Date: 2023-10-30

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2309RSU048-E2	V01	Initial Report	2023-12-01	Valid

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1. General Information

1.1. Applicant

Shenzhen EPS Technology Co. LTD.

901, Tower 1, Louhu Investment Holding Building, Qingshuihe 1 Road, Luohu, Shenzhen

1.2. Manufacturer

Shenzhen EPS Technology Co. LTD.

901, Tower 1, Louhu Investment Holding Building, Qingshuihe 1 Road, Luohu, Shenzhen

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	USB2.0 contactless connectivity
Model No.	SKL5010A, SKL5010B
Product Brand Name	EPS
EUT Identification No.	20230920Sample#01 & 20230920Sample#03 (Low Rate) 20230920Sample#07 & 20230920Sample#08 (High Rate)
Software Version	V1.3
Hardware Version	V1.0
Temperature	-20°C ~ +85°C
<p>Note:</p> <p>The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</p>	

1.5. Antenna Details

Frequency Range	60.5GHz
Type of Modulation	2ASK
Antenna Type	Patch single antenna
Antenna Gain	4 dBi

2. RF Exposure Measurement

2.1. Test Limits

Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level P_{\max} .

Table as below contains example values for P_{\max} derived from existing exposure limits listed in the bibliography, such as the ICNIRP guidelines

Guideline / Standard	SAR limit SAR_{\max} (W/kg)	Averaging mass, m (g)	P_{\max} (mW)	Exposure tier	Region of body
ICNIRP [1]	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs

2.2. Calculated Result

Product	USB2.0 contactless connectivity
Test Item	RF Exposure Evaluation

Operation Frequency	Frequency Range (GHz)	Maximum EIRP (dBm)	Maximum EIRP (mW)
60.5GHz	57 ~ 64	-0.46	0.899

Note 1: Maximum EIRP (mW) = $10^{\{\text{Maximum Conducted Power (dBm)}/10\}}$

Conclusion:

The maximum EIRP of the device is 0.899mW (-0.46dBm) and it is less than 20mW (13.01dBm), so the device is compliance with exposure requirement.

_____ The End _____