TEST REPORT

Applicant Name :	M5Stack Technology Co., Ltd
Address :	Block A10, Expo Bay South Coast, Fuhai Street, Bao'an District, Shenzhen, China
Report Number :	2504T19882E-RF
FCC ID:	2AN3WM5STAMPLC

Test Standard (s)

47 CFR §1.1307& §2.1091

Sample Description

Product Type:	M5Stam PLC
Model No.:	Stam PLC
Trade Mark:	
Date Received:	2025-05-08
Report Date:	2025-08-08

Test Result:	The EUT complied with the standards above.

Prepared and Checked By:

Matt Liang
EMC Engineer

Approved By:

Bob Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504T19882E-RF	Original Report	2025-08-08

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	M5Stam PLC
Tested Model	Stam PLC
Voltage Range#	DC 6-36V

Frequency Range	BLE 1M/2M: 2402-2480MHz 2.4G Wi-Fi: 2412-2462MHz
Antenna Specification#	BLE 1M/2M & 2.4G Wi-Fi: 3.98dBi (It is provided by the applicant.)
Sample Serial Number	32J4-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (Minutes)**
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz
* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)
P = power input to the antenna (in appropriate units, e.g., mW).
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Mode	Frequency (MHz)	Antenna Gain#		Tune up conducted power#		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402	3.98	2.50	8.50	7.079	20	0.0035	1.0
2.4G Wi-Fi	2412	3.98	2.50	24.50	281.838	20	0.140	1.0

Note 1: The tune-up power and antenna gain are declared by the applicant.
Note 2: The BLE and WIFI can't transmission simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504T19882E-RF EUT External Photos and Attachment No.2 2504T19882E-RF EUT Internal Photos

******* END OF REPORT *******