RF Exposure Report

Report No.:	SABBNT-WTW-P21040202A
FCC ID:	SLE-UC8112A
Test Model:	UC-8112A-ME-T-LX
Received Date:	Apr. 09, 2021
Test Date:	Apr. 22 ~ May 06, 2021 and Aug. 20, 2021
Issued Date:	Apr. 20, 2022
Applicant:	Moxa Inc.
Address:	No. 1111, Heping Rd., Bade Dist., Taoyuan City 334004, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
SABBNT-WTW-P21040202A	Original release	Apr. 20, 2022

1 Certificate of Conformity

Product:	Arm-based platform
Brand:	MOXA
Test Model:	UC-8112A-ME-T-LX
Sample Status:	Engineering sample
Applicant:	Moxa Inc.
Test Date:	Apr. 22 ~ May 06, 2021 and Aug. 20, 2021
Standards:	FCC Part 2 (Section 2.1091)
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Apr. 20, 2022

Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Apr. 20, 2022

Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$
where
Pd = power density in mW/cm^2
Pout = output power to antenna in mW
G = gain of antenna in linear scale
pi = 3.1416
r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WCDMA II	1850-1910	22.73	2.00	20	0.059	1.00
WCDMA V	824-849	22.03	1.00	20	0.040	0.55
LTE 2	1850-1910	22.73	2.00	20	0.059	1.00
LTE 4	1710-1755	23.18	2.00	20	0.066	1.00
LTE 5	824-849	22.15	1.00	20	0.041	0.55
LTE 13	777-787	22.08	1.00	20	0.040	0.52
LTE 17	704-716	22.38	1.00	20	0.043	0.47

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. Only the power for LTE 17 is new. The power for other band were quotes to SGS report no.: T190304W05-RP.

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