

RF Exposure Evaluation

of

E.U.T. : GS Digital Voice Pager
Model No. : GSX6XXX
Serial Model : ---
FCC ID : LEA-GSX6XXX

for

APPLICANT : Unication Co., Ltd.
ADDRESS : 5F, No. 6, Wu-Kung 5Rd., Xinzhuang Dist., New
Taipei City, Taiwan (R.O.C.)

Test Performed by

Taiwan Testing and Certification Center
No.34, Dingfu, Linkou Dist., New Taipei City 244, Taiwan (R.O.C.)
TEL : (02)26023052 FAX: (02)26010910

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Report Number : 23-11-RBF-013-04

TEST REPORT CERTIFICATION

Applicant : Unication Co., Ltd.
5F, No. 6, Wu-Kung 5Rd., Xinzhuang Dist., New Taipei City, Taiwan (R.O.C.)

Manufacturer : Unication Co., Ltd.
5F, No. 6, Wu-Kung 5Rd., Xinzhuang Dist., New Taipei City, Taiwan (R.O.C.)

Description of EUT

a) Type of EUT : GS Digital Voice Pager
b) Trade Name : Unication
c) Model No. : GSX6XXX
d) FCC ID : LEA-GSX6XXX
e) Power Supply : Input:100-240V , 50/60Hz , 0.28A
Output:5V , 2A

Li-Ion Bttery : DC 3.8V , 2800mAh , 10.64Wh

f) Frequency Range : 2402MHz~2480MHz
g) Antenna Gain : 1 dBi (chip ANT)
h) Modulation Type : FHSS

Regulation Applied : FCC Title 47 Part 2.1091, KDB 447498 D01 V06. The equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of sections 1.1307, 2.1091, and 2.1093 of FCC 47 CFR.

Note: 1. The result of the testing report relates only to the item tested.

2. The testing report shall not be reproduced except in full, without the written approval of ETC

Date Test Item Received : Nov. 15, 2023
Date Test Campaign Completed : Dec. 06, 2023
Date of Issue : Jan. 30, 2024

Test Engineer : Vincent Chang
(Vincent Chang, Engineer)



Approve & Authorized Signer : Kevin Lee
Kevin Lee
Section Manager of EMC Testing Department II

RF Exposure Evaluation

Standard Applicable

According to section 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guideline.

Test Result of RF Exposure Evaluation

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 $(\text{Power(mW)})/\text{separation(mm)} * \sqrt{f(\text{GHz})} \leq 3.0$, SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450 MHz and antenna separation distance = 5 mm, SAR Test Exclusion Threshold = 10 mW

BT

Frequency Band (MHz)	Output Power		SAR Test Exclusion Threshold (mW)	Calculated Threshold Value (≤ 3.0 SAR is not required)
	EIRP (dBm)	EIRP (mW)		
2402	0.97	1.25	10	0.396

Conducted Test Equipment

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	ESU 40	2023/03/03	2024/03/02
Horn Antenna	ETS-Lindgren	3117	2023/03/23	2024/03/22
Amplifier	HP	8449B	2023/10/17	2024/10/16

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Radiated Emissions / Effective Radiated Power (3m RF Chamber)	30MHz ~ 1GHz	±4.2dB (30MHz ≤ f ≤ 300MHz)
		±4.44dB (300MHz < f ≤ 1GHz)
	Above 1GHz	±4.44dB (1GHz ≤ f ≤ 18GHz)
		±3.02dB (18GHz ≤ f ≤ 40GHz)
Conducted Measurement	9kHz ~ 40GHz	±0.88dB (9kHz ≤ f ≤ 30MHz)
		±0.88dB (30MHz < f ≤ 1GHz)
		±1.04dB (1GHz ≤ f ≤ 18GHz)
		±1.2dB (18GHz ≤ f ≤ 40GHz)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The test result(s) does not consider the uncertainty of measurement when the test standard(s) and/or test method which refer by the labs has the limit or judgments for the test result(s).

Antenna Information

Brand	Part Number	Antenna Type	Gain (dBi)
CHTTL	CAD01042440HX1K	Chip	1

Note : The manufacturer declared the Antenna information.