FCC RF EXPOSURE REPORT

For

LTE MODULE

MODEL NUMBER: EG25-G

REPORT NUMBER: 4791826590-5-RF-3

ISSUE DATE: August 25, 2025

FCC ID: 2A46G-EG25-G

Prepared for

Guangzhou Xaircraft Technology CO.,LTD
Building 1, No. 9 Xinrui Road, Huangpu District, Guangzhou, P.R.China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China

Tel: +86 769 22038881
Fax: +86 769 33244054
Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 25, 2025	Initial Issue	\

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Guangzhou Xaircraft Technology CO.,LTD
Address:	Building 1, No. 9 Xinrui Road, Huangpu District, Guangzhou, P.R.China

Manufacturer Information1

Company Name:	Guangzhou Xaircraft Technology CO.,LTD
Address:	Building 1, No. 9 Xinrui Road, Huangpu District, Guangzhou, P.R.China

EUT Information

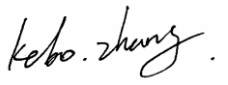
EUT Name:	LTE MODULE
Model:	EG25-G
Sample Received Date:	Jun. 11, 2025
Sample Status:	Normal
Sample ID:	8564579
Date of Tested:	Jun. 11, 2025 to August 24, 2025

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091	PASS
KDB 447498 D01	PASS

Prepared By:

Daniel Zhang
Project Engineer

Checked By:



Kebo Zhang
Senior Project Engineer

Approved By:

Stephen Guo
Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB447498 D01 v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202

Note 1:
All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (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

CALCULATION METHOD

$S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

For Single RF Source

Operation Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Power Density at R = 20 cm (W/m^2)	FCC Limit (W/m^2)	FCC Conclusion
GSM850-GPRS 1TS	824	2.15	32.5	0.7255	5.4933	Pass
GSM850-GPRS 2TS	824	2.15	31.5	1.1526	5.4933	Pass
GSM850-GPRS 3TS	824	2.15	30.0	1.2239	5.4933	Pass
GSM850-GPRS 4TS	824	2.15	28.5	1.1553	5.4933	Pass
GSM1900-GPRS 1TS	1850	2.88	28.5	0.3417	10.0000	Pass
GSM1900-GPRS 2TS	1850	2.88	27.0	2.9028	10.0000	Pass
GSM1900-GPRS 3TS	1850	2.88	25.0	0.4579	10.0000	Pass
GSM1900-GPRS 4TS	1850	2.88	24.0	0.4850	10.0000	Pass
WCDMA B2	1850	2.88	23.5	0.8644	10.0000	Pass
WCDMA B4	1710	1.95	23.5	0.6978	10.0000	Pass
LTE B2	1850	2.88	21.5	0.5454	10.0000	Pass
LTE B4	1710	1.95	23.0	0.6219	10.0000	Pass
LTE B5	824	2.15	23.0	0.6512	5.4933	Pass
LTE B7	2500	2.46	23.5	0.7847	10.0000	Pass
LTE B25	1850	2.88	23.0	0.7704	10.0000	Pass
LTE B26(FCC)	814	1.89	23.5	0.6882	5.4267	Pass
LTE B38	2570	2.46	23.0	0.6994	10.0000	Pass
LTE B41(FCC)	2496	2.46	24.0	0.8805	10.0000	Pass

Simultaneous Analysis:

Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multi-transmitter procedures.

Note:
1. The calculated distance is 20 cm.
2. The power comes from operation description.

END OF REPORT