



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172102

Page: 1 of 7

1 Cover Page

RF MPE REPORT

Application No.:	KSCR2309001721AT
FCC ID:	2BD4BK020067
Applicant:	PROSE Technologies LLC
Address of Applicant:	550 Clark Drive, Mount Olive, NJ 07828
Manufacturer:	PROSE Technologies LLC
Address of Manufacturer:	550 Clark Drive, Mount Olive, NJ 07828 1.PROSE Technologies LLC 2.PROSE Technologies (Suzhou) Co., Ltd. 3 PROSE Technologies India Pvt. Ltd. 1.550 Clark Drive, Mount Olive, NJ 07828
Factory:	2.No. 6, Shen'an Road, Dianshanhu, Kunshan, Jiangsu, China 3 Block A, Horizon Industrial Park, Off MIDC Phase II, Chakan, Pune-410501, India
Address of Factory:	
Equipment Under Test (EUT):	
EUT Name:	LPA Unit
Model No.:	LPA2-43-B121314-64F-10, LPA2-XX-B121314-XX-XX
Trade mark:	PROSE
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2023-09-25
Date of Test:	2023-10-15 to 2023-12-31
Date of Issue:	2024-01-02
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Member of the SGS Group (SGS SA)

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172102

Page: 2 of 7

Revision Record			
Version	Description	Date	Remark
00	Original	2024-01-02	/

Authorized for issue by:			
Tested By		 Cloud Peng	
		Cloud_Peng/Project Engineer	
Approved By		 Terry Hou	
		Terry Hou /Reviewer	

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172102

Page: 3 of 7

2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information.....	4
3.1 General Description of E.U.T.	4
3.2 Technical Specifications.....	4
3.3 Test Location.....	5
3.4 Test Facility	5
4 Test Standards and Limits.....	6
4.1 FCC Radiofrequency radiation exposure limits:.....	6
5 Measurement and Calculation.....	7
5.1 Maximum transmit power	7
5.2 MPE Calculation.....	7



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172102

Page: 4 of 7

3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 28V
---------------	--------

3.2 Technical Specifications

Frequency Band:	Booster: 729MHz-746MHz, 746MHz-756MHz, 758MHz-768MHz
Antenna Type:	External
Antenna Gain:	15 dBi for 729MHz to 746MHz (Provided by manufacturer) 15 dBi for 746MHz to 756MHz (Provided by manufacturer) 15 dBi for 758MHz to 768MHz (Provided by manufacturer)
Modulation Type:	LTE: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	SISO
Temperature Range:	-40°C to 55°C

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230900172102

Page: 5 of 7

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
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

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR230900172101

5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

1)P (mW)

2)R = distance to the center of radiation of antenna (in centimeter)

3)MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max E.I.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
LTE	729 ~ 746	59	510	0.2430	0.485	Pass
LTE	746 ~ 756	59	510	0.2430	0.497	Pass
LTE	758~ 768	39	510	0.0024	0.505	Pass

Simultaneous transmission For Booster:

Wireless Configure	Max E.I.R.P (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Rate	Limit
729 ~ 746	59	0.2430	0.485	0.994	1
746 ~ 756	59	0.2430	0.497		
758~ 768	39	0.0024	0.505		

--End of the Report--