



Compliance Certification Services (Kunshan) Inc.


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

Report No.: KSCR240800158102

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1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2408001581AT
Name of Testing Laboratory preparing the Report: Compliance Certification Services (Kunshan) Inc.
Address of Testing Laboratory preparing the Report: No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
FCC ID: 2A17FR42841
Applicant: Parallel Wireless, Inc.
Address of Applicant: 300 Innovative Way #2310 Nashua, NH 3062 United States
Manufacturer: Parallel Wireless, Inc.
Address of Manufacturer: 300 Innovative Way #2310 Nashua, NH 3062 United States
Equipment Under Test (EUT):
EUT Name: Remote Unit
Model No.: DRRU-R428
Trade mark: 
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2024-08-20
Date of Test: 2024-08-22 to 2024-10-08
Date of Issue: 2024-10-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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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)



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Revision Record			
Version	Description	Date	Remark
00	Original	2024-10-09	/

Authorized for issue by:				
Tested By		Damon Zhou		
		Damon Zhou /Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 120V/60Hz or DC 48V
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3.2 Technical Specifications

Frequency Band:	LTE Band41
Frequency Range:	2496MHz-2690MHz
Antenna Type:	External Antenna
Antenna Gain:	Max Antenna Gain 10 dBi(Provided by manufacturer)
Support Bandwidth:	5MHz,10MHz,15MHz,20MHz,5+5MHz,10+10MHz,15+15MHz,20+20MHz
Modulation Type:	QPSK,16QAM,64QAM,256QAM
Antenna Delivery:	4T4R MIMO,2T2R MIMO,SISO

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.

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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.



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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

Note: 5G N41 is 1mW/cm².

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240800158101.

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)	Maximum E.I.R.P (dBm)	Power Density (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Safety Distance (cm)
LTE Band n41	2496~ 2690	62.06	0.995	1	358.5

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--