





MPE TEST REPORT

Applicant Green Packet Berhad, Taiwan

FCC ID W9V-OA335-GP

Product LTE CPE

Brand GreenPacket

Model OA-335

Report No. R1908A0514-M1

Issue Date October 17, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Yu Wang

Approved by: Guangchang Fan

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

City: Shanghai

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1.3 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C		
Relative humidity	Min. = 30%, Max. = 70%		
Ground system resistance	< 0.5 Ω		

Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.



2 Description of Equipment under Test

Client Information

Applicant	Green Packet Berhad, Taiwan		
Applicant address	6F, NO.21, LANE 583 RUEIGUANG RD, NEIHU DISTRICT, Taipei City, Taiwan		
Manufacturer	Green Packet Berhad, Taiwan		
Manufacturer address	6F, NO.21, LANE 583 RUEIGUANG RD, NEIHU DISTRICT, Taipei City, Taiwan		

General Technologies

Model	OA-335		
IMEI	351918068992872		
Hardware Version	V1.0		
Software Version	MG12_0.3.3.1_V1.0-GP		
Date of Testing:	September 3, 2019 ~ September 29, 2019		



3 Maximum conducted output power (measured) and antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by Numeric gain (G)=10^(antenna gain/10)

Band	Maximum Conducted Output Power (dBm)		Antenna Gain	Numeric gain
	(dBm)	(mW)	(dBi)	
LTE Band 41	25.00	316.228	8	6.310



4 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following

TABLE 1 – LIMITS FOR MAXIMUN PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time			
(MHz)	Strength	Strength		0.57 100			
A-5-000 GaV	(V/m)	(AVm)	(mW/cm2)	(minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	*(100)	6			
3-30	1842/f	4.89/f	*(900/f2)	6			
30-300	61.4	0.163	1.0	6			
300-1500			f/300	6			
1500-100,000			5	6			
(B)	Limits for General	Population/Uncont	rolled Exposure				
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	*(180/f2)	30			
30-300	27.5	0.073	0.2	30			
300-1500			f/1500	30			
1500-100,000			1.0	30			

f = frequency in MHz

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

^{* =} Plane-wave equivalent power density



The maximum permissible exposure for 1500~100,000MHz is 1.0.So

Band	The maximum permissible exposure	
LTE Band 41	1.0mW/cm ²	

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in KDB 447498 D01 is used in the calculation. Equation from KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) is:

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

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	PG (mW)	Test Result (mW/cm ²)	Limit Value (mW/cm²)	Conclusion
LTE Band 41	1995.262	0.397	1.000	Pass
Note: R = 20cm				

 $\Gamma = 3.1416$

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.