

IEEE C95.1**KDB 447498 D03****47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091****RF EXPOSURE REPORT****For****300Mbps AV600 Wireless Powerline Adapter****Model: PL7622****Trade Name: netis****Issued for****NETIS SYSTEMS CO., LTD****4F & 5F, R&D Building, Oriental Cyberport, High-Tech Industrial Park,
Nanshan, Shenzhen, China****Issued by****Compliance Certification Services Inc.
Hsinchu Lab.****NO. 989-1, Wenshan Rd., Shangshan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)****<http://www.ccsrf.com>****service@ccsrf.com****Issued Date: January 12, 2016****Testing Laboratory
0240**

Note: This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF or any government agencies. The test results of this report relate only to the tested sample identified in this report.

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	01/12/2016	Initial Issue	All Page	Gloria Chang

TABLE OF CONTENTS

1. LIMIT	4
2. EUT SPECIFICATION.....	4
3. TEST RESULTS	5
4. MAXIMUM PERMISSIBLE EXPOSURE.....	6

1. Limit

According to §15.247(i), 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 guidelines. See § 1.1307(b)(1) of this chapter.

2. EUT Specification

Product Name	300Mbps AV600 Wireless Powerline Adapter
Model Number	PL7622
Identify Number	T151006D04
Received Date	October 06, 2015
Frequency band (Operating)	IEEE 802.11b/g/gn HT20 Mode: 2412MHz ~ 2462MHz IEEE 802.11gn HT40 Mode: 2422MHz ~ 2452MHz
Device category	Mobile (>20cm separation)
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna Specification	WiFi (2.4GHz) Ant. 0 Antenna Gain :3.28 dBi (Numeric gain: 2.13) Ant. 1 Antenna Gain :3.28 dBi (Numeric gain: 2.13)
Maximum Peak output power	IEEE 802.11b Mode: 12.67 dBm (18.493 mW) IEEE 802.11g Mode: 25.12 dBm (325.087 mW) IEEE 802.11gn HT 20 Mode 27.58 dBm (572.796 mW) IEEE 802.11gn HT 40 Mode 27.14 dBm (517.607 mW)
Evaluation applied	MPE Evaluation*

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. This submittal(s) (test report) is intended for FCC ID: T58PL7622R filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. Test Results

No non-compliance noted.

Calculation

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in watts / meter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and

d (cm) = d (m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \textbf{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm^2

4. Maximum Permissible Exposure

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

IEEE 802.11b mode:

Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
2437	18.493	2.13	20	0.0078	1

IEEE 802.11g mode:

Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
2437	325.087	2.13	20	0.1378	1

IEEE 802.11gn HT20 mode:

Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
2437	572.796	2.13	20	0.2428	1

IEEE 802.11gn HT40 mode:

Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
2437	517.607	2.13	20	0.2194	1