



BUREAU VERITAS

Test Report No.: RF170912N063-1



TEST REPORT

Applicant	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product	AC1750 Wireless Dual Band Gigabit Router
Brand Name	tp-link
Model	Archer C7
Additional Model & Model Difference	N/A
Date of tests	Sep. 12, 2017 ~ Sep. 26, 2017

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.247

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Harry Li
Project Engineer/ EMC Department

Approved by Glyn He
Supervisor / EMC Department

Date: Sep. 26, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
1612064R-RF-US-P06V01	Original release	May. 27, 2016
RF170912N063-1	Based on the original report 1612064R-RF-US-P06V01 renewed product version and update the software version it no need to retest (require by client).	Sep. 26, 2017



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Not test
15.247(d) 15.209	Radiated Emissions	PASS	Not test
15.247(d)	Band Edge Measurement	PASS	Not test
15.247(a)(2)	6dB bandwidth	PASS	Not test
15.247(b)	Conducted Output power	PASS	Not test
15.247(e)	Power Spectral Density	PASS	Not test
15.203	Antenna Requirement	PASS	Not test

NOTE:

1. Please refer to the original test report from QuieTek with report number 1612064R-RF-US-P06V01.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	AC1750 Wireless Dual Band Gigabit Router
MODEL NO.	Archer C7
FCC ID	TE7C7V2
NOMINAL VOLTAGE	DC 12V From Adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
AVERAGE POWER	25.51dBm (Measured Average Power)
ANTENNA TYPE	PIFA Antenna; 3.81dBi gain For Ant 0 PIFA Antenna; 2.44dBi gain For Ant 1 PIFA Antenna; 3.37dBi gain For Ant 2
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. The EUT incorporates a MIMO function. Physically, the EUT provides 3 completed transmitter and 3 receivers.

MODULATION MODE	TX FUNCTION
802.11a	3TX/3RX
802.11ac 80MHz	3TX/3RX
802.11n 20MHz	3TX/3RX
802.11n 40MHz	3TX/3RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



4. The EUT can be powered by adapters as list as attach:

Adapter 1 (UK)	
Brand	Ten Pao International Inc.
Model	S040EB1200250
Input Power	100-240V, 50/60Hz, 1.2A Max.
Output Power	12Vdc, 2500mA
Power Line	1.5m cable without core attached on adapter

Adapter 2 (AU)	
Brand	Ten Pao International Inc.
Model	S040ES1200250
Input Power	100-240V, 50/60Hz, 1.2A Max.
Output Power	12Vdc, 2500mA
Power Line	1.5m cable without core attached on adapter

Adapter 5 (AU)	
Brand	TP-LINK TECHNOLOGIES CO.,LTD.
Model	T120200-2E1
Input Power	100-240V, 50/60Hz, 0.8A
Output Power	12Vdc, 2A
Power Line	1.45m cable without core attached on adapter

Adapter 6 (EU)	
Brand	TP-LINK TECHNOLOGIES CO.,LTD.
Model	T120200-2C1
Input Power	100-240V, 50/60Hz, 0.8A
Output Power	12Vdc, 2A
Power Line	1.45m cable without core attached on adapter

* Adapter 1-3 and 4-6 are different at plug type for different country, therefore adapter 6 was chosen for final test and presented in the test report.



3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 DTS Meas Guidance v04

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B(DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without other necessary accessories or support units.



4 TEST TYPES AND RESULTS

All test items and results please refer to the original test report from QuieTek with report number 1612064R-RF-US-P06V01.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6 APPENDIX A - Modifications recorders for engineering changes to the eut BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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