RF Exposure Evaluation Declaration

Product Name	:	ST10
Model No.	:	ST10
FCC ID	:	2ACS5-ST10
IC	:	11554B-ST10

- Applicant : Yuneec Technology Co., Limited
- Address : 2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun Tong, Hong Kong

Date of Receipt :	Oct. 29, 2014
Issued Date :	Dec. 15, 2014
Report No. :	14B0064R-RF-US-P20V01
Report Version :	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government. The test report shall not be reproduced without the written approval of QuieTek Corporation.

Test Report Certification Issued Date : Dec. 15, 2014

Issued Date : Dec. 15, 2014 Report No. : 14B0064R-RF-US-P20V01

Product Name		
Applicant Address	:	Yuneec Technology Co., Limited
Address	•	2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun
Manufacturer		Tong, Hong Kong
	:	Good Power Technology Co., Ltd.
Address	:	No.388 East Zhengwei Road, Jinxi Town, Kunshan,
		Jiangsu 215324, China
Model No.	:	ST10
FCC ID	:	2ACS5-ST10
IC	:	11554B-ST10
EUT Voltage	:	DC: 3.6V
Brand Name	:	Yuneec
Applicable Standard	:	KDB 447498D01V05V02
		FCC Part1.1310(b)
		RSS-102: Issue 4, March, 2010
Test Result	:	Complied
Performed Location	:	Suzhou EMC Laboratory
		No.99 Hongye Rd., Suzhou Industrial Park Loufeng
		Hi-Tech Development Zone., Suzhou, China
		TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
		FCC Registration Number: 800392; IC Lab Code: 4075B
Documented By	:	Aleeni
Reviewed By	:	Alse Ni Dream Cas Teff Chen
Approved By	:	Jeff Chen
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Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site :<u>http://www.quietek.com/tw/ctg/cts/accreditations.htm</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

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LinKou Testing Laboratory :

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C. TEL: 886-2-8601-3788 / FAX: 886-2-8601-3789 E-Mail: service@quietek.com

Suzhou Testing Laboratory :

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
14B0064R-RF-US-P20V01	V1.0	Initial Issued Report	Dec. 15, 2014



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)
(A) Limits for C	(A) Limits for Occupational/ Control Exposures			
300-1500			F/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			F/1500	6
1500-100,000			1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	ST10
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

• Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1dBi and 1.26 in logarithm scale.

• Output Power into Antenna & RF Exposure Evaluation Distance:

Frequency Band (MHz)	Maximum Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
2401.249725 - 2481.229965 MHz	12.0226	0.003011

Note:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm2.

- The End