

RF Exposure Evaluation Declaration

Product Name : RF Module

Model No. : EWPA1PCID

FCC ID : U6IRTV1SAPPCID

Applicant : Hangzhou H3C Technologies Co., Ltd.

Address : 310 Liuhe Road, Zhijiang Science Park, Hangzhou
310053, P.R.China

Date of Receipt : 2008/10/28

Issued Date : 2008/12/01

Report No. : 08BS029R-RF-US

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 CNLA, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

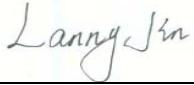
Test Report Certification

Issued Date : 2008/12/01

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QuieTek

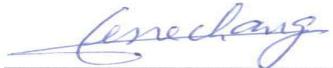
Product Name : RF Module
Applicant : Hangzhou H3C Technologies Co., Ltd.
Address : 310 Liuhe Road, Zhijiang Science Park, Hangzhou
310053, P.R.China
Manufacturer : Hangzhou H3C Technologies Co., Ltd.
Model No. : EWPA1PCID
FCC ID : U6IRTV1SAPPCID
Rated Voltage : AC 120V/60Hz
EUT Voltage : DC 3.3V
Trade Name : H3C
Applicable Standard : FCC OET 65
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

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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 by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

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

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

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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/cm ²)	Average Time (Minutes)
(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: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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	:	RF Module
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmitter by 802.11b

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
01	2412.00	104.7129	0.033016
06	2437.00	106.1696	0.033476
11	2462.00	115.0800	0.036285

Product	:	RF Module
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
01	2412.00	74.9894	0.023645
06	2437.00	82.7942	0.026105
11	2462.00	77.6247	0.024475