





RF Exposure Evaluation Declaration

Product Name: EZ-BLE PRoC Module

Model No. : CYBLE-012011-00, CYBLE-212019-00

FCC ID : WAP2011

IC ID : 7922A-2011

Applicant: Cypress Semiconductor

Address: 198 Champion Ct, San Jose, California 95134

United States

Date of Receipt: Oct. 26, 2015

Test Date : Oct. 26, 2015~ Nov. 25, 2015

Issued Date : Dec. 04, 2015

Report No. : 15A0072R-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.

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Test Report Certification

Issued Date: Dec. 04, 2015

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Applicant : Cypress Semiconductor

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Manufacturer : Cypress Semiconductor

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Model No. : CYBLE-012011-00, CYBLE-212019-00

FCC ID : WAP2011
IC 7922A-2011
EUT Voltage : DC 1.9V~5.5V

Applicable Standard : KDB 447498D01V05V02

FCC Part1.1310(b)

Test Result : Complied

Performed Location : Suzhou EMC Laboratory

No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,

Jiangsu, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Registration Number: 800392

Documented By	:	Eleme nong
Reviewed By	:	Frankhe
Approved By	:	Harry Than



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

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: http://www.quietek.com/tw/ctg/cts/accreditations.htm
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:

HsinChu Testing Laboratory:

LinKou Testing Laboratory:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.

Suzhou Testing Laboratory:

No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China



History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
15A0072R-RF-US-P20V01	V1.0	Initial Issued Report	Dec. 04, 2015



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 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		EZ-BLE PRoC Module
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

Bluetooth Antenna Gain:

Antenna	Manufacturer	Model No.	Peak Gain
PCB Antenna	N/A	N/A	-0.5dBi

• BT 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)	
2402 - 2480 MHz	1.3740	0.0002	

Note:

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

— The End	