RF Exposure Report

Report No.: SA171227D04-1

FCC ID: PPQIC3A

Test Model: EZ-0762-0A31

Received Date: Dec. 27, 2017

Test Date: Jan. 8 ~ 18, 2018

Issued Date: Jan. 22, 2018

Applicant: Lite-On Technology Corporation

Address: 90,Chien I Road, Chung Ho, Taipei Hsien, Taiwan, R.O.C

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
SA171227D04-1	Original release.	Jan. 22, 2018

1 Certificate of Conformity

Product:	Network Board
Brand:	LITE-ON
Test Model:	EZ-0762-0A31
Sample Status:	Engineering sample
Applicant:	Lite-On Technology Corporation
Test Date:	Jan. 8 ~ 18, 2018
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Annie Chang , **Date:** Jan. 22, 2018

Annie Chang / Senior Specialist

Approved by : Rex. Lai , **Date:** Jan. 22, 2018

Rex Lai / Associate Technical Manager

2 RF Exposure

2.1 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)
Limits For General Population / Uncontrolled Exposure				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result Of Maximum Conducted Power

WLAN

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	17.92	2	20	0.0195	1

Band 2

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WCDMA: 1850MHz ~ 1910MHz	20.43	20	0.0220	1
LTE Band 2: 1850MHz ~ 1910MHz	21.74	20	0.0297	1

Band 4

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WCDMA: 1710MHz ~ 1755MHz	21.27	20	0.0267	1
LTE Band 4: 1710MHz ~ 1755MHz	22.67	20	0.0368	1

Band 5

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
LTE Band 5: 824MHz ~ 849MHz	21.99	24.14	20	0.0516	0.55

Note: EIRP = ERP + 2.15

Band 12

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
LTE Band 12: 698MHz ~ 711MHz	21.79	23.94	20	0.0493	0.47

Note: EIRP = ERP + 2.15

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN + LTE Band 12 = 0.0195/1 + 0.0493/0.47 = 0.1244

Therefore the maximum calculations of above situations are less than the "1" limit.

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