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Release Control Record				
Issue No.	Description		Date Issued	
SA150713C14	Original release		Sep. 16, 2015	



1 Certificate of Conformity

Product:	Communication Module
Brand:	MURATA
Test Model:	LBEQ6ZZ1ES
Sample Status:	Engineering sample
Applicant:	Murata Manufacturing Co., Ltd.
Test Date:	Jul. 22 ~ Sep. 11, 2015
Standards:	FCC Part 2 (Section 2.1091)
	KDB Publication 447498 D01 General RF Exposure Guidance v06
	865664 D02 RF Exposure Reporting v01r02
	IEEE C95.1

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.

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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/18				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**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	21.57	2.07	20	0.046	1
5180-5240	13.51	2.43	20	0.008	1
5260-5320	13.17	2.43	20	0.007	1
5500-5700	12.94	2.43	20	0.007	1
5745-5825	13.21	2.43	20	0.007	1
Bluetooth EDR	8.34	2.07	20	0.002	1
Bluetooth LE	8.39	2.07	20	0.002	1

*WIFI and Bluetooth cannot transmit and receive simultaneously

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