

RF Exposure Report

Report No.: SA151228C18

FCC ID: VPYLB1DX

Test Model: 1DX

Received Date: Dec. 28, 2015

Test Date: Jan. 04 ~ Jan. 13, 2016

Issued Date: Jan. 13, 2016

Applicant: Murata Manufacturing Co., Ltd.

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

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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
3 Calculation Result Of Maximum Conducted Power	5



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Release Control Record

Issue No.	Description	Date Issued
SA151228C18	Original release	Jan. 13, 2016

1 Certificate of Conformity

Product: Communication Module

Brand: MURATA

Test Model: 1DX

Sample Status: Engineering sample

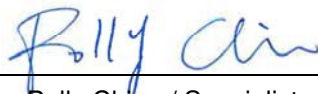
Applicant: Murata Manufacturing Co., Ltd.

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Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 (October 23, 2015)
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.

Prepared by :



Polly Chien / Specialist

Date:

Jan. 13, 2016

Approved by :



Ken Liu / Senior Manager

Date:

Jan. 13, 2016

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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

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

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	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN (2412 ~ 2462MHz)	22.40	0.6	20	0.040	1
Bluetooth EDR (2402 ~ 2480MHz)	9.54	0.6	20	0.002	1
Bluetooth LE (2402 ~ 2480MHz)	8.68	0.6	20	0.002	1

* WLAN and BT cannot transmit at the same time.

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