RF Exposure Evaluation declaration

Product Name	Motorola Bluetooth Keyboard
Model No.	P6LT1
FCC ID	IHDP6LT1

Applicant	Motorola Mobility, Inc.
Address	600 N. U.S. Highway 45, Libertyville, Illinois 60048-5343, United States

Date of Receipt	Sep. 14, 2010
Date of Declaration	Sep. 28, 2010
Report No.	109237R-RFUSP43V01

The declaration results relate only to the samples calculated.

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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	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(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: $Pd = (Pout*G)/(4*pi*r^2)$

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

Pd id the limit of MPE, 1 mW/cm^2 . 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	:	Motorola Bluetooth Keyboard
Test Item	:	RF Exposure Evaluation
Test Site	:	No.3 OATS

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.42dBi in logarithm scale.

1Mbps (GFSK)

Output Power Into Antenna & RF Exposure Evaluation Distance (0.42dBi):

Channel	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 2.5 cm (mW/cm2)
00	2402.00	0.5495	0.007707
38	2441.00	0.5754	0.008071
79	2480.00	0.5888	0.008259