Dec. 28, 2015

RE: Analysis of RF Exposure for Portable and Mobile use per KDB 447498 D01 Mobile Portable RF Exposure v05r02 and RSS-102 Issue 5 March 2015.

FCC ID: QKLSCL1

1. Mobile MPE Calculation Summary using a 20cm separation distance:

Mode	Output Power	Power Density (mW/cm^2)
Bluetooth LE	-0.33 dBm	0.00047

2. Co-Located Transmitters transmission table:

Transmitter type	Transmitter type that can transmit at the same time
Bluetooth LE	N/A

3. Simultaneous Transmission MPE:

Transmitter type	MPE (mw/cm^2)	Limit (mW/cm^2)	MPE ratio (MPE/Limit)
Bluetooth LE	0.00047	1.0	0.00047
-	-	-	-
		Sum of the ratios (should be <1.0)	0.00047

4. *Mobile MPE Calculation using a 20cm separation distance (Bluetooth LE):*

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to isotropic
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	**-0.33**	(dBm)
Maximum peak output power at antenna input terminal:	**0.93**	(mW)
Antenna gain(typical):	**4.1**	(dBi)
Maximum antenna gain:	**2.57**	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**2402**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**1.000**	(mW/cm^2)
Power density at prediction frequency:	**0.0004739**	(mW/cm^2)
Power density at prediction frequency:	**0.004739**	(W/m^2)
Margin of Compliance:	**-33.24**	(dB)

Sincerely,

Xiaoying Zhang

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