June 10, 2015

TUV SUD BABT
Octagon House, Concorde Way
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PO15 5RL

Attention: Director of Certification

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: QNG-BE2813
IC: 6434C-BE2813

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

Mode	Output Power	Power Density (mW/m^2)
WLAN (802.11 b/g)	14.33 dBm	0.0055
Bluetooth 3.0	6.58 dBm	0.0009

2. Co-Located Transmitters transmission table:

Transmitter type	Transmitter type that can transmit at the same time
WLAN (802.11 b/g)	Bluetooth 3.0
Bluetooth 3.0	WLAN (802.11 b/g)

3. Simultaneous Transmission MPE:

Transmitter type	MPE (mw/cm^2)	Limit (mW/cm^2)	MPE ratio (MPE/Limit)
WLAN (802.11 b/g)	0.0051	1.0	0.0051
Bluetooth 3.0	0.0009	1.0	0.0009
		Sum of the ratios (should be <1.0)	0.0060

4. Mobile MPE Calculation using a 20cm separation distance (WLAN):

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:	**14.33**	(dBm)
Maximum peak output power at antenna input terminal:	**27.10**	(mW)
Antenna gain(typical):	**-0.22**	(dBi)
Maximum antenna gain:	**0.951**	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**2412**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**1.000**	(mW/cm^2)
Power density at prediction frequency:	**0.0051**	(mW/cm^2)
Power density at prediction frequency:	**0.051**	(W/m^2)
Margin of Compliance:	**-22.90**	(dB)

5. Mobile MPE Calculation using a 20cm separation distance (Bluetooth 3.0):

Maximum peak output power at antenna input terminal:	**6.58**	(dBm)
Maximum peak output power at antenna input terminal:	**4.55**	(mW)
Antenna gain(typical):	**-0.22**	(dBi)
Maximum antenna gain:	**0.951**	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**2440**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**1.000**	(mW/cm^2)
Power density at prediction frequency:	**0.0009**	(mW/cm^2)
Power density at prediction frequency:	**0.009**	(W/m^2)
Margin of Compliance:	**-30.65**	(dB)

Sincerely,

Ferdie S. Custodio
Name
Authorized Signatory
Title: Senior EMC/Wireless Test Engineer