March 16, 2016

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: APV-BRD01
IC: 5843C-BRD01

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

Mode	Output Power	Power Density (mW/m^2)
BT EDR	11.515 dBm	0.00331
BT LE	12.213 dBm	0.00282

2. Co-Located Transmitters transmission table:

Transmitter type	Transmitter type that can transmit at the same time
BTLE	None
BT EDR	None

3. Mobile MPE Calculation using a 20cm separation distance (BT EDR):

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:	**12.21**	(dBm)
Maximum peak output power at antenna input terminal:	**16.63**	(mW)
Antenna gain(typical):	**0**	(dBi)
Maximum antenna gain:	**1.000**	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**2402**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**0.535**	(mW/cm^2)
Power density at prediction frequency:	**0.00331**	(mW/cm^2)
Power density at prediction frequency:	**0.033**	(W/m^2)
Margin of Compliance:	**-22.09**	(dB)

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

Maximum peak output power at antenna input terminal:	**11.52**	(dBm)
Maximum peak output power at antenna input terminal:	**14.19**	(mW)
Antenna gain(typical):	**0**	(dBi)
Maximum antenna gain:	**1.000**	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**2440**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**0.541**	(mW/cm^2)
Power density at prediction frequency:	**0.00282**	(mW/cm^2)
Power density at prediction frequency:	**0.028**	(W/m^2)
Margin of Compliance:	**-22.82**	(dB)

Sincerely,

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