August 22, 2013

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 v05r01 and RSS-102 Issue 4 March 2010

IC: 11003A-B0113A
FCC ID: SN2-B0113A

1. Portable exposure SAR Exemption Calculation using a 6mm separation distance:

As per Clause 4.3.1.1 of KDB 447498 D01 v05r01:

$$\left(\frac{\text{max.power of channel,including tune-up tolerance,mW}}{\text{min.test separation distance,mm}}\right) \text{x} \left(\sqrt{f\ (GHz)}\right) \leq 3.0$$

$$\left(\frac{2.2\ \text{mW}}{6\ \text{mm}}\right) \text{x} \left(\sqrt{2.440(GHz)}\right) \leq 3.0$$

0.6 ≤ 3.0 (complies)

2. MPE Calculation using a 6mm separation distance:

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:	3.42	(dBm)
Maximum peak output power at antenna input terminal:	2.20	(mW)
Antenna gain (typical):	1.72	(dBi)
Maximum antenna gain:	1.486	(numeric)
Prediction distance:	0.6	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	2440	(MHz)

MPE limit for uncontrolled exposure at prediction frequency:	1.0	(mW/cm^2)
Power density at prediction frequency:	0.7219	(mW/cm^2)
Power density at prediction frequency:	7.219	(W/m^2)
Margin of Compliance:	-1.42	(dB)

Sincerely,

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