



August 14, 2013

TUV SUD BABT
Octagon House, Concorde Way
Segensworth Rd N, Fareham
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: 7322A-7X01DA11
FCC ID: LDL-7X01DA11

1. Portable exposure SAR Exemption Calculation using a 20mm separation distance:

As per Clause 4.3.1.1 of KDB 447498 D01 v05r01:

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

$$\left(\frac{31.99 \text{ mW}}{20 \text{ mm}} \right) \times (\sqrt{2.4422(GHz)}) \leq 3.0$$

$$2.5 \leq 3.0 \text{ (complies)}$$

2. Mobile MPE Calculation using a 20cm 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:	15.05	(dBm)
Maximum peak output power at antenna input terminal:	31.99	(mW)
Antenna gain (typical):	0	(dBi)
Maximum antenna gain:	1.0	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	2442.2	(MHz)



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MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm ²)
Power density at prediction frequency:	0.0064	(mW/cm ²)
Power density at prediction frequency:	0.064	(W/m ²)
Margin of Compliance:	-21.96	(dB)

Sincerely,

A handwritten signature in black ink, appearing to read 'Ferdie S. Custodio'.

Ferdie S. Custodio

Name

Authorized Signatory

Title: Senior EMC/Wireless Test Engineer