

March 1, 2013

BABT FCB Forsyth House, Churchfield Road, Walton-on-Thames, Surrey, KT12 2TD

Attention: Director of Certification

RE: Prediction of MPE limit at a given distance as per KDB 447498 D01 Mobile Portable RF Exposure V05

for Class II Permissive Change Reassessment (Hughes Networks Systems multiband antenna)

IC: 7089A-W2CBW0015 FCC ID: U9R-W2CBW0015

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

15.89	(dBm)
38.82	(mW)
3.5	(dBi)
2.239	(numeric)
20	(cm)
100	(%)
2437.00	(MHz)
1.000	(mW/cm2)
0.0173	(mW/cm2)
0.173	(W/m2)
-17.62	(dB)
	38.82 3.5 2.239 20 100 2437.00 1.000 0.0173 0.173

Sincerely,

Ferdie S/Custodio

Name

Authorized Signatory

Title: EMC/Wireless Test Engineer