10. RF EXPOSURE STATEMENT

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

<table>
<tr><td colspan="5" align="center">(B) Limits for General Population/Uncontrolled Exposures</td></tr>
<tr><th>Frequency range (MHz)</th><th>Electric field Strength (V/m)</th><th>Magnetic field Strength (A/m)</th><th>Power density (mW/cm²)</th><th>Averaging time (minutes)</th></tr>
<tr><td>0.3 - 1.34.....................................</td><td>614</td><td>1.63</td><td>*(100)</td><td>30</td></tr>
<tr><td>1.34 - 30.....................................</td><td>824/f</td><td>2.19/f</td><td>*(180/ f²)</td><td>30</td></tr>
<tr><td>30 - 300.....................................</td><td>27.5</td><td>0.073</td><td>0.2</td><td>30</td></tr>
<tr><td>300 - 1500.................................</td><td>...............</td><td>...............</td><td>f/1500</td><td>30</td></tr>
<tr><td>1500 - 100.000.............................</td><td>...............</td><td>...............</td><td>1.0</td><td>30</td></tr>
</table>

F = frequency in MHz

* = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

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

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

HCT Co., Ltd.
San 136-1, Ami-ri , Bubal-eup, Icheon-si, Kyounki-do, 467-701,Korea
TEL : +82 31 639 8518   FAX : +82 31 639 8525   www.hct.co.kr   **- 37 /38-**

Max Peak output Power at antenna input terminal	32.97000	dBm
Max Peak output Power at antenna input terminal	1981.52703	mW
Prediction distance	50.00000	cm
Prediction frequency	2640.50000	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	−
Power density at prediction frequency (S)	0.99965	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm^2

3. RESULTS

The power density level at 50 cm is 0.99965 mW/cm², which is below the uncontrolled exposure limit of 1.0 mW/cm² at 2640.5 MHz for BRS band.

Warning: In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, it must also have a minimum distance of 50 cm from the body during normal operation.

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