11. RF EXPOSURE STATEMENT

1. LIMITS

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

(B) Limits for General Population/Uncontrolled Exposures

Frequency range	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30 30

F = frequency in MHz

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

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT		HCT PT.27 TEST REPORT	
Test Report No. HCTR1012FR13	Date of Issue: December 13, 2010	EUT Type: MOBILE WIMAX RADIO ACCESS SYSTEM	FCC ID: Y2FRAS2141	Page 94 of 95

^{* =} Plane-wave equivalent power density

Max Peak output Power at antenna input terminal	40.36	dBm
Max Peak output Power at antenna input terminal	10864.25624	mW
Prediction distance	300.000	cm
Prediction frequency	2608.00	MHz
Antenna Gain(typical)	17.0	dBi
Antenna Gain(numeric)	50.11872	_
Power density at prediction frequency (S)	0.48145	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

3. RESULTS

The power density level at 300 cm is 0.48145 mW/cm^2 , which is below the uncontrolled exposure limit of 1.0 mW/cm^2 at 2608 MHz.

FCC PT.27 TEST REPORT	FCC CERTIFICATION REPORT		HCT PT.27 TEST REPORT	
Test Report No. HCTR1012FR13	Date of Issue: December 13, 2010	EUT Type: MOBILE WIMAX RADIO ACCESS SYSTEM	FCC ID: Y2FRAS2141	Page 95 of 95