RF EXPOSURE EVALUATION

FCC ID : 2AKMF-IDRO900ME-L3

Standard Requirement

The following FCC Rule Parts and procedures are applicable :

Part 1.1310 Radiofrequency radiation exposure limits

Table 1 below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	$*900/f^2$	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	$*180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1,500			**f/1500**	30
1,500-100,000			1.0	30

f = frequency in MHz
** = Plane-wave equivalent power density*

MPE calculation

$S = EIRP / (4\pi R^2)$

Where S : Power density (mW/cm^2)
EIRP (mW) : P * T * G
EIRP (dBm) : P + T + G
P (dBm) : Maximum transmitter power
G (dBi) : Antenna gain
T (dB) : Power tolerance
R (cm) : Safety distance

EUT RF Exposure

Safety distance(R) : 20 cm

Frequency [MHz]	Declared output power [dBm]	Antenna Gain [dBi]	Power tolerance [dB]	EIRP [dBm]	EIRP [mW]	Power density [mW/cm^2]	Limit [mW/cm^2]
927.25	29.62	-35.7	+ 0.5	-5.58	0.28	0.00006	0.618

Conclusion

This confirms compliance to the required Radio frequency radiation exposure limit.