

RF EXPOSURE EVALUATION

FCC ID : 2AFWN-ELH75GF

Standard Requirement

The following FCC Rule Parts and procedures are applicable :

Part 1.1310 Radiofrequency radiation exposure limits

Part 2.1091 Radiofrequency radiation exposure evaluation : Mobile device

KDB447498 D01 v06 Mobile and Portable Devices RF Exposure Procedures and Equipment

Authorization Policies

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*



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MPE calculation

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

Where S : Power density
 EIRP : $P \times G$
 P : Maximum transmitter power
 G : Antenna gain
 R : distance to the centre of radiation of the antenna

EUT RF Exposure

P : 2.73 dBm (1.875 mW)
G : 0.70 (x 1.175)
R : 20 cm

$$S = 0.0044 \text{ mW/cm}^2$$

Conclusion

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