FCC ID:2BBEX-BEHDIN98

RF Exposure Evaluation

According to KDB447498D01 General RF Exposure Guidance v06 4.3.1. Standalone SAR test exclusion considerations Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/1 61.4	1.63 4.89/1 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6 6
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/1 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30

F= Frequency in MHz Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2) Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Result of RF Exposure Evaluation

Antenna gain:0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance: 20cm

Measurement Data

The Max Conducted Peak Output Power data refer to report Report No.: ZKT-230426L3052

1.1 EUT RF EXPOSURE

Operational M	ode: EDR (GFS	K worst case)				
Channel Co	Maximum Peak Conducted	Tune up tolerance	Maximum tune-up Power		Calculated value	Limit
	Output Power (dBm)	(dB)	(dBm)	(mW)	(mW/cm2)	
2402 MHZ	8.33	8±1	9	7.943	0.00158	1.0
Conclusion: the	e calculated value	e ≤1.0, SAR is	exempted.	I		

¹⁾ Pd = (Pout*G)/(4* Pi * R2)=(7.943 *1)/(4*3.14159*20*20)=0.00158, G=10gain/10 =1