

FCC ID: 2AQSN-DCP45HP20

RF Exposure Evaluation

Limits

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 1.1307(b)

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)	
of the sime of	(A) Limits	for Occupational/Controlled	Exposures	S CHESTIAN AND OCT	
0.3–3.0	614	2 1.63° 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*(100)	6 A GAING	
3.0–30	1842/f	4.89/f	*(900/f²)	6 45 1146	
30–300	5 61.4 K	0.163	[AS [M.0] S.C.	ETTER 6 STELLS	
300–1500	All ETT SO SO S	STEPHEN OF THE THE O	f/300	STEPHEN OF STATE	
1500–100,000	of the sime of	ST TEST THE SE SET TEST TO	\$ 6 5 John M. C. S. J. S	6 CTE 6 THE	
SIM NO OF THE SIME	(B) Limits for (General Population/Uncontro	olled Exposure	MILE OF CLES STIME	
0.3–1.34	614	1.63 L	*(100)	30 5 75	
1.34–30	824/f	2.19/f	*(180/f²)	1 (30 ° 61	
30–300	27.5	0.073	0.2	30	
300–1500	S S STEET STEET S	SOUTH SERVICE OF THE	f/1500	& 30 E	
1500–100,000	SIM NO OF THE ST	E SO OF THE SO OF	1.0 ° CHE	51 30 ch 51	

f = frequency in MHz

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, 1 mW/cm². 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 Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, and highest channe individually.

Test Result of RF Exposure Evaluation

Antenna gain=2.5dBi

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Target power (dBm)	Target power (mW)	Antenna Gain (Numeric)	Power Density Limit (mW/cm²)	Power Density At 20 cm (mW/cm²)	Test Results
2402	20.00	© 2.31 ×	2±1	6 2 51m	1.78		0.0007	Pass
2440	20.00	2.4	2±1	2 2 2	1.78	LESTING OF	0.0007	Pass
2480	20.00	2.5	2±1	200	1.78	TES THE	0.0007	Pass

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.