

FCC ID:2A2DO-G12

RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1091, 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 Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

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	Electric field	Magnetic field	Power density	Averaging time	
range	strength	strength	(mW/cm ²)	(minutes)	
(MHz)	(V/m)	(A/m)	(IIIVV/CIII-)		
	(A) Limits for	Occupational/Controlle	ed Exposures		
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	
300–1500			f/300	6	
1500–100,000			5	6	
	(B) Limits for Ge	neral Population/Unco	ntrolled 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	
300–1500			f/1500	30	
1500–100,000	11	11	1.0	30	
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f = frequency in MHz

Friis transmission formula: Pd = (Pout*G)/(4*pi*r²)

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.





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

Test Result of RF Exposure Evaluation

15		15				
Mode	po an	. Output wer to tenna JBm)	Max. Output power to antenna (mW)	Max. Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
2.4G WIF	1	9.43	87.70	0.286	1.0	PASS
Remark: 2.4GWIFI Anter Conclusion:No I			AR test is required	æ		