

FCC ID : 2AR2SPDB70

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §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)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

11.1 Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

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

P_d

BT DSS:

Operating Mode	Test Channel	Measured power (dBm)	Tune up tolerance (dBm)	Max tune up conducted power (dBm)	Output Peak power (mW)	Ant. Gain (dBi)	Ant. Gain (numeric)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
GFSK	2402	-1.40	-1±1	0	1	-2	0.631	0.000126	1
GFSK	2441	-1.41	-1±1	0	1	-2	0.631	0.000126	1
GFSK	2480	-2.22	-2±1	-1	0.79433	-2	0.631	0.000100	1
1/4π-DQPSK	2402	-0.33	0±1	1	1.25893	-2	0.631	0.000158	1
1/4π-DQPSK	2441	-0.49	0±1	1	1.25893	-2	0.631	0.000158	1
1/4π-DQPSK	2480	-1.29	-1±1	0	1	-2	0.631	0.000126	1

Signature:



Sam Lv

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