

Maximum Permissive Exposure

FCC ID: 2AB4WW7

Product Name: Car Radio Head Unit

Model No: W7

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits For Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	...	...	f/300	6
1500-100,000	...	...	5.0	6
(B) Limits For General Population / Uncontrolled Exposure (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

2. MPE Calculation

2.1. WIFI MPE

JCE Autonet Ltd. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

Based on safety distance 20cm, the antenna gain is 1.32 dBi, and the highest power output is 191.866mW at 802.11g mode, the power density is 0.0517mW/cm².

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm²

P = 22.83dBm = 191.866mW

G = 1.32 dBi = 1.355 Numerical

r = 20cm

$$S = 191.866 * 1.355 / 4 * \pi * 20^2 = 0.0517 \text{ mW/cm}^2$$

2.2. BT MPE

JCE Autonet Ltd. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

Based on safety distance 20cm, the antenna gain is 1.98 dBi, and the highest power output is 0.887mW, the power density is 0.000278mW/cm².

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm²

P = -0.519dBm = 0.887mW

G = 1.98 dBi = 1.577 Numerical

r = 20cm

$$S = 0.887 * 1.577 / 4 * \pi * 20^2 = 0.000278 \text{mW/cm}^2$$

MPE			
WiFi(mW/cm ²)	BT(mW/cm ²)	Total(mW/cm ²)	Limit (mW/cm ²)
0.0517	0.000278	0.051978	≤1

Sincerely Yours,



Mr. Ben Cheng

Manager

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