

US Tech Test Report:
FCC ID:
IC:
Report Number:
Issue Date:
Customer:
Models:

FCC Part 15 Certification/ RSS 247
CCKPC0248
5251A-PC0248
26-0114
May 18, 2026
Digital Monitoring Products Inc
PC-0248 (1103)

Maximum Permissible Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S** as per the respective limits in Table 1 below, at a distance, d, of 20 cm (Mobile condition) from the EUT.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Therefore, for:

MPE for 902 - 928 MHz:

Limit: 0.6 mW/cm²

Peak Power (dBm) = 8.05 dBm (From original report #R20221221-20-E1)

Peak Power (Watts) = 0.006 W

Gain of Transmit Antenna = 1.0 dBi = 1.25 numeric (max gain antenna)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = \text{EIRP} / 4A = 0.006 (1.25) / 4 * \pi * 0.2 * 0.2 \\ &= 0.0075 / 0.5030 = 0.0149 \text{ W/m}^2 \\ &= (0.0149 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00149 \text{ mW/cm}^2 \end{aligned}$$

which is << less than S = 0.6 mW/cm²

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RSS-102 (Issue 6), 5.3.2 compliance for 902 MHz – 928 MHz wireless radio device.

At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

In this case $f = 915$ MHz

$$1.31 \times 10^{-2} \times 915^{0.6834} = 1.38 \text{ W}$$

$$\text{EUT max EIRP} = 8.05 \text{ dBm} + (1.0 \text{ dBi}) = 9.05 \text{ dBm EIRP} = 0.00803 \text{ W}$$

Which is << than 1.38 W

Meets the requirements for General Public (Uncontrolled Environments) according to Table 7 of RSS-102 (I6).

All calculations performed by:

Test Engineer: George Yang

Date: May 18, 2026

Signature: 