RF Exposure

The equipment under test (EUT) is a Pac-Man Giant Joystick operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AA batteries). Once use the USB cable connect to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The normal radiated output power (e.i.r.p) is: -13.0dBm (tolerance: +/- 3dB).
The normal conducted output power is -13.0dBm (tolerance: +/- 3dB).
Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 81.8dBμV/m at 3m in the frequency 2405MHz
The EIRP = [(FS*D) ^2 / 30] mW = -13.43dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 80.7dBμV/m at 3m in the frequency 2475MHz
The EIRP = [(FS*D) ^2 / 30] mW = -14.53dBm
which is within the production variation.

The maximum conducted output power specified is -10dBm= 0.100mW
The source- based time-averaging conducted output power
=0.100* Duty cycle mW =0.100 mW(Duty cycle =100%)

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.475) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

The duty cycle is 100%.