RF Exposure

The Equipment under Test (EUT) is a P1500 model: P1500. It is powered by DC 3.8V. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: -2.05dBi.
The nominal conducted output power specified: 2.05dBm ±3dB.
Test radiated output power: -3dBm ~ 3dBm

Modulation Type: GFSK.

According to the KDB 447498:

The maximun conducted output power specified is 5.05dBm = 3.2mW
The source- based time-averaging conducted output power
= 3.2* Duty Cycle mW= 3.2mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.5 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.

Transmitter Duty Cycle Calculation

The test signal of the EUT is Continuous emission, so the Duty Cycle is 100%.