



America

Certification Exhibit

FCC ID: 2AWTM-RTLS-OEM001

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72160943

Manufacturer: Mirion Technologies (MGPI) SAS
Model: UWB OEM Tag

RF Exposure

General Information:

Applicant: Mirion Technologies (MGPI) SAS
 Device Category: Mobile / Portable (Module)
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Planar PCB
 Antenna Gain: 1.4 dBi
 Maximum System EIRP: -0.28 dBm, 0.937 mW

Per 47 CFR Part 1.1310(d)(3); at operating frequencies above 6 GHz, the MPE limits listed in Table 1 in 47 CFR Part 1.1310(e)(1) shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in 47 CFR Part 1.1307(b). The separation distance used to determine compliance is 5mm.

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

- S = power density (in appropriate units, e.g. mW/cm²)
- P = power input to the antenna (in appropriate units, e.g., mW)
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Table 1: MPE Calculation

Transmit Frequency (MHz)	Radio Power EIRP (dBm)	Power Density Limit (mW/Cm ²)	Radio Power EIRP (mW)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
6616.5	-0.28	1.00	0.94	1.000	0.5	0.298

***Note: The radio power is based on an EIRP measurement with the antenna included.**