



RF EXPOSURE EVALUATION

FCC CFR 47 Part 1.1307

Report No.: MAZT03-U5 Rev A

Company: Maztech Industries

Model: MZT013

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To: FCC CFR 47 Part 1.1307

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SAR Exemption for UWB Radio

The **Maztech Industries, MZT013** contains 1 transmitter comprising of an UWB low power transmitter operating at 3100-6500 MHz frequency range.

The **Maztech Industries, MZT013** is a Portable device used within 20 cm of the body of the user.

§ 2.1093 Radiofrequency radiation exposure evaluation: portable devices.

For the purpose of this section, the definition in **1.1307(b) (2)** of this chapter shall apply. A portable device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that the RF source's radiating structure(s) is/are within 20cm of the body of the user.

Part 1.1307(b) (3) Determination of Exemption

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

The EUT radiated EIRP was measured at a distance of 1 meter.

The exemption limit of 1 mW EIRP is 104.77 dBuV/m measured at distance of 1m.

The maximum field strength measured for the MZT013 UWB device (operating on 99 % duty cycle) at 1 meter is 93.91 dBuV/m.

Conclusion

From above calculations we can see that even without considering the time-averaged power of the UWB radio in normal operation (taking into account the transmitters Duty Cycle) the Maztech Industries, MZT013 UWB transmitter complies with the 1 mW exemption limit of FCC Part 1.1307(b) (3).



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