

RF Exposure Information Pursuant to Section 15.253(f)

The following RF Exposure information is stated in the Test Report, Section 8.6, and is repeated here:

When the vehicle is not in motion, the appropriate category for RF Exposure is general population/uncontrolled exposure. At 76-77 GHz the specification limits exposure to 1 mW/cm².

The operation and installation manual specifies a mounting location for the antenna installation to be typically behind the radiator of the vehicle it is installed in. The expected closest distance an individual could come to the radiating antenna would be at least 20 cm. Stationary is the only operational configuration that must be evaluated for RF exposure.

All axis and polarizations of the DUT were investigated. The maximum power was detected in the co-polarized plane of the transmit antenna of the DUT. The calculation is based on the received power level divided by the effective aperture at 76.5 GHz of the standard gain horn antenna.

Measurement data taken from the Test Report show that the radar unit not in motion produces a maximum level of -32.8 dBm/cm² measured at a distance of 20 cm using a standard gain horn and a Rohde & Schwarz Analyzer with External Mixer. This is equivalent to 0.5 µW/cm². For unwanted emissions the power was negligible.

The margin of compliance is > 30 dB and hence the device meets the requirements of Sections 1.1307, 1.1310 and 2.1091 of the Rules.

Klaus Knoerig
Agent for Automotive Distance Control Systems GmbH
EMCC Dr. Rasek
Boelwiese 5
Ebermannstadt, Germany 91320