

RF Exposure Information Pursuant to Section 15.253(f):

Maximum radiation occurs whether the vehicle is in motion or not. 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/cm^2 . Stationary is the only operational configuration that must be evaluated for RF exposure.

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. Measurement data taken from the European test report on an identical transmitter head shows the radar unit produces a level of 3.8 nW/cm^2 measured at a distance of 1 meter using a standard gain horn and a Tektronix spectrum analyzer. The calculation is based on the received power level at that distance divided by the planar surface area of the standard gain horn antenna.

With a mounting location behind the radiator of a vehicle, the expected closest distance an individual could come to the radiating antenna would vary between at least 20 cm up to distances approaching 1 meter.

Due to the margin of compliance, $> 50 \text{ dB}$, further calculations are not considered necessary.

A copy of the test data sheet from the European test report is attached.

Phillip Inglis

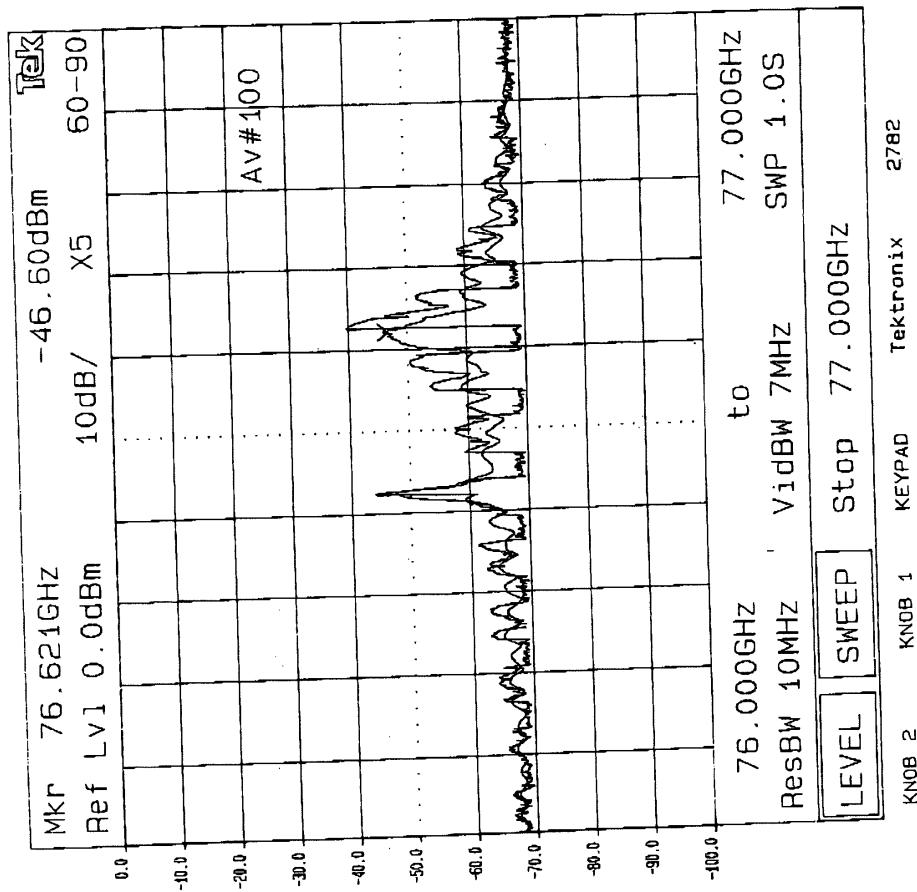


CETECOM ICT Services GmbH

Prüfbericht Nr.: 5-1598-3/99

Anlage 3

Plot Nr. 9

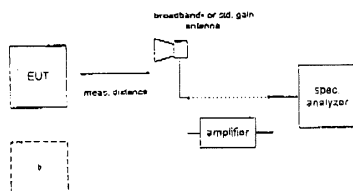


CETECOM

Page 12 (14)

7.3

f	=	76.000 - 77.000	GHz
U	=	13.2	VDC
U	=	10.8-15.6	VDC
t	=	+ 23 / -25 / +55	° C

$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$

$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$
$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$
$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$
$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$
$$\begin{array}{r} 100 \\ 100 \\ 10000 \\ 10^4 \\ 10 \\ \hline 10^{-4} \\ 10^{-3} \end{array}$$
No