

RF Exposure Calculation

Applicant: Leica Geosystems AG

FCC ID: RFD-RX-T

This final mobile device is a composite device with the modular transmitter (FCC ID: RFD-PANMOD1) and the modular transmitter (FCC ID: HSW-2410G). The equipment full fills the technical standards and rules of the rule part under which it operates. Additional measurements of the final device enable the co-location of the both modular approved transmitter for the application in a "RX1250T" (FCC ID: RFD-RX-T).

integral Antenna requirement § 15.203).

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The Following calculation is the reference data for 20cm distance.

name			nature v	value	log va	lue
measured radiated power		EIRP	214,29	mVV	23,31 dBm	
	duty o	cycle factor				
frequency	240	0 MHz				
dwell time			4,86	ms		
Time of occupancy/puls-train time			6,94 ms			
duty cycle factor	10log(dwell time/100 ms)		70,03%		-1,55	dB
	max source-base	d time-average	d power			
conducted power			48,34	mW	16,84 dB	
calculated radiated power		EIRP	76,61	mW	18,84 dB	
measured radiated power		EIRP	150,06	m₩	21,76 dB	
		MPE				
$S = \frac{PG}{4\pi R^2}$ calculated with max source-based time-average measured conducted power						oower
4πR ²		r [cm]	20	2,5	1,5	3,457
		S [mVV/cm²]	0,0299			1,0
Limit general population		[mVV/cm²]	1,0			
Limit occupational population		[mVV/cm²]	5,0	for f =	2400	MHz

D-15526 Reichenwalde b. Berlin

Norbert Kaspar

Bankverbindung: Sparkasse Oder-Spree BLZ 170 550 50 Kto. Nr. 3105165974