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**FCC §15.319 (i) & §2.1093 - RF EXPOSURE**

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**Applicable Standard**

According to FCC §15.319 (i) Unlicensed PCS devices are subject to the radiofrequency radiation exposure requirements specified in §1.1307(b), §2.1091 and §2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a “general population/uncontrolled” environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

According to KDB 447498 D01 Mobile Portable RF Exposure v041) c): Unless excluded by specific FCC test procedures, portable devices with output power is  $\leq 60/f(\text{GHz})$  mW shall include SAR data for equipment approval.

**RF Exposure Evaluation**

Max peak output power:

1928.448 MHz:  $16.66 \text{ dBm} + 2.0 \text{ dBi} = 18.66 \text{ dBm}$ , i.e. 73.45 mW

The time base average power =  $73.45 \text{ mW} \times \text{Duty Cycle Factor} (0.048) = 3.55 \text{ mW}$

$60/f(\text{GHz}) = 60/1.928448 = 31.11 \text{ mW}$

The source-base average power is less than  $60/f$  (GHz)

So the SAR evaluation can be exempted.