

EXHIBIT 6a: MEASURED DATA – Pursuant 47 CFR 2.1041**6.1 Land Mobile Band Transmitter Output Power -- Pursuant 47 CFR 2.1033(c)7, 2.1033(c)6 and 90.635(d)**

The cellular transmitter operating in the 800-900 MHz band is a variable power type used in a SMR trunking system. Output power (as defined in 47 CFR 90.7) is dynamically controlled as described in Exhibit 12.

Maximum output power rating: 700 milliwatts (28.45 dBm), pulse average power . Output power will vary over a range from 0.088 to 700 milliwatts (pulse average power).

Note 1: Nominal output power rating: 600 milliwatts (27.78 dBm) (Pulse average power).

Note 2: These ratings are compliant with the FCC maximum of 100 watts (50 dBm) for Mobile stations

Note 3: The term pulse average power is used to specify the power that would be measured during the intervals of recurrent TDM transmission pulses by an average responding RF power meter. Power expressed in this manner is independent of the TDM duty cycle, and facilitates RF system coverage analysis.

6.2 ISM Band Transmitter Output Power -- Pursuant 47 CFR 2.1033(b)(6) and 15.247(b)(2)

The ISM transmitter operating in the 902-928 MHz band is a frequency hopped, fixed output power type. Output power (as defined in 47 CFR 15.247) is controlled as described in Exhibit 12.

Maximum peak output power rating: 1000 milliwatts (30 dBm), peak power. The modulation scheme employed can cause peak fluctuations in output power of up to .5 dB from maximum pulse average power, which is 891 mW (29.5 dBm).

Output power is intentionally not adjusted in operation in the ISM frequency range. Nominal output power is 743 mW. (28.71 dBm), pulse average power. This level established to maintain compliance with maximum output power rating. It includes consideration of variation of peak to average power fluctuations in the output RF power, variation in output power due to changes in voltage and operating temperature, and manufacturing tolerances in establishing nominal output power.

6.3 DC Power Used by Final Amplifier Device -- Pursuant 47 CFR 2.1033(c)8)

In order to prevent the malfunctions that can occur due to directly measuring the DC characteristics of the final RF amplifying stage, data was obtained by measuring the entire radio DC current and is reported herein for the entire radio.

The DC current and the RF output power was measured with a special RF/DC test fixture set to supply the radio with the nominal battery voltage of 4.0 V. The characteristics were measured during a transmission pulse and are listed in the Table 6-1:

Characteristics	Land Mobile				ISM
	800 MHz		900 MHz		902-928 MHz
Power Setting	maximum	minimum	maximum	minimum	maximum
DC Voltage (Volts)	4	4	4	4	4
DC Current (A)	1.46	0.687	1.49	0.687	1.4
Output Power (mW)	691	0.0775	697	0.0740	891

Table 6-1 Characteristics for 800 and 900 MHz bands