

**INDEX OF TEST RESULTS**

<u>Exhibit #</u>	<u>Description</u>
6A	800 band/Part 22/AMPS: RF Power
6B	No changes
6C	No changes
6D	No changes
6E	800 band/Part 22/AMPS: Spurious Emissions (radiated)
6F	No changes
6G	800 band/Part 22/DAMPS: RF Power
6H	No changes
6I	No changes
6J	No changes
6K	800 band/Part 22/DAMPS: Spurious Emissions (radiated)
6L	No changes
6M	1900MHz/Part 24: RF Power
6N	No changes
6O	No changes
6P	1900MHz/Part 24: Spurious Emissions (conducted)
6Q	No changes
6R	No changes

**800 MHz: AMPS RF POWER OUTPUT**

**Para. 2.1033 (c)(6)(7), 2.1046 and 22.913 (a)**

For Canada use only (6A2 and 6A3): The RF power measured at the output terminal (antenna connector) is plotted against supply voltage variations and temperature variations at the highest levels.

Exhibit	Voltage (V)	Temperature	TX Freq	Power Level
6A2	no change from the original filing			
6A3	no change from the original filing			

Note: The manufacturers rated voltage for the battery is 3.4 VDC to 4.2 VDC.

The measurements were made per IS 137 using a Hewlett Packard 8953DT North American Dual Mode Cellular Test System which includes the following equipment:

HP EPM-441A Power Meter  
HP 66309B Dual Output Mobile Comm. DC Source  
Thermotron SM-8C Temperature Chamber

**EFFECTIVE RADIATED POWER**

The following is a description of the substitution method used in accordance with IS-137A to obtain accurate EDRP readings at the carrier fundamental frequency:

- (1) The unit under test is placed 3 m away from the measurement antenna in vertical position. The measurements are made by using calibrated antennas and equipment with known cable losses.
- (2) A maximized measurement is made by raising and lowering the measurement antenna and rotating the EUT 360 degrees. Horizontal and vertical polarization data is recorded as reference.
- (3) A generator, an amplifier, and a half-wave dipole antenna are then substituted for the EUT.
- (4) Data obtained with known power levels into the substitution antenna are then compared to the reference reading. The EDRP of the product is calculated.

Table: EDRP

Mode	f (MHz)	Radiated (dBm/mW)
AMPS	824	26.2 / 417
	836	26.8 / 479
	849	26.1 / 407

EXHIBIT 6E1

800 MHz AMPS SPURIOUS EMISSIONS (Radiated)

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Per 2.1053 and 22.917 (e), field strength of spurious radiation was measured at Underwriters Laboratories Inc. Research Triangle Park, NC site. The measurement procedure is per EIA IS-137 conducted on a 3-meter test site. Results are shown on the following Exhibits.

Note: The spectrum was examined through the 10<sup>th</sup> harmonic of the carrier. Maximum radiated emissions are recorded.

<u>EXHIBIT</u>	<u>FREQUENCY</u>	<u>OUTPUT POWER LEVEL</u>
6E2	824.04 MHz	0

The measurements were made per IS 137 using a Hewlett Packard 8953DT North American Dual Mode Cellular Test System which includes the following equipment:

HP8566B Spectrum Analyzer 100Hz 25GHz / 2 – 22GHz

HP 83752A Signal Generator (S/N: 361DA01426)

30dB Amplifier - Amplifier Research (AR) (S/N: 23413)

Power Meter - Rhode & Schwartz (S/N: DE21529)

Power Sensor (S/N: 8479771011)

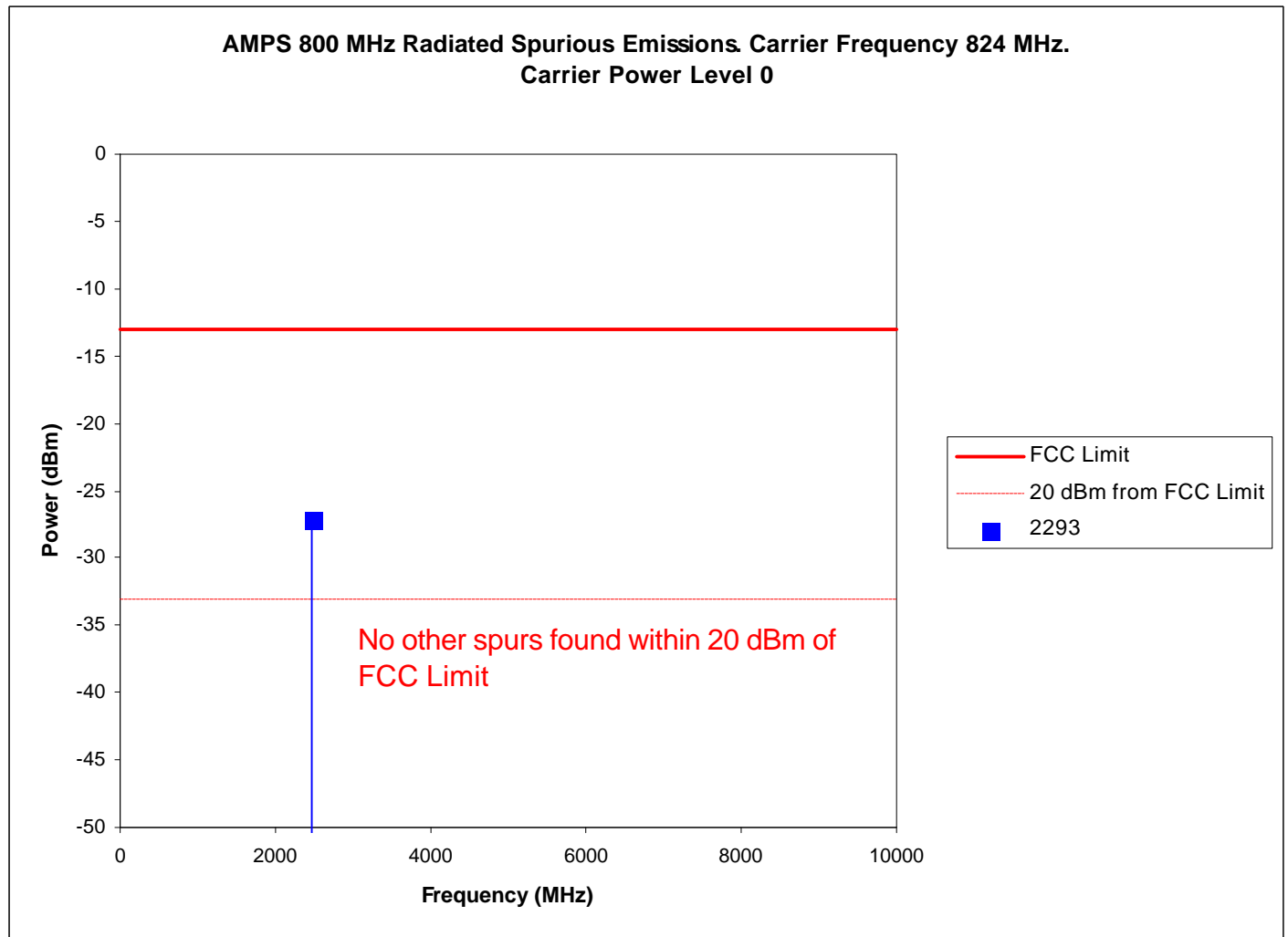
2 Test Cables (S/N's: ZATA21, ATA055)

20dB Pad (S/N: ATA005)

EMCO 3115 Double Ridge Horn Antenna

Test Fixture (Fixture provides height adjustment for mobiles and antennas according to FCC requirements)

EXHIBIT 6E2



800 MHz DAMPS RF POWER OUTPUT

Para.2.1033 (c)(6)(7) 2.1046 (a) 22.913(a).

For Canada use only (6G2 and 6G3): The RF power measured at the output terminals (antenna connector) is plotted against supply voltage variations at the highest levels.

Exhibit	Voltage (V)	Temperature	TX Freq	Power Level
6G2	Nominal Volt.	Varied	Mid-Band	0
6G3	Varied	+25 C	Mid-Band	0

Note: The manufacturers rated voltage for the battery is 3.4 VDC to 4.2 VDC.

The measurements were made per IS 137 using a Hewlett Packard 8953DT North American Dual Mode Cellular Test System which includes the following equipment:

HP EPM-441A Power Meter  
HP 66309B Dual Output Mobile Comm. DC Source  
Thermotron SM-8C Temperature Chamber

EFFECTIVE RADIATED POWER

The following is a description of the substitution method used in accordance with IS-137A to obtain accurate EDRP readings at the carrier fundamental frequency:

1. The unit under test is placed 3 m away from the measurement antenna in vertical position. The measurements are made by using calibrated antennas and equipment with known cable losses.
2. A maximized measurement is made by raising and lowering the measurement antenna and rotating the EUT 360 degrees. Horizontal and vertical polarization data is recorded as reference.
3. A generator, an amplifier, and a half-wave dipole antenna are then substituted for the EUT.
4. Data obtained with known power levels into the substitution antenna are then compared to the reference reading. The EDRP of the product is calculated.

Table: EDRP

Mode	f (MHz)	* Radiated (dBm/mW)
DAMPS	824	28.7 / 741
	837	28.7 / 741
	849	28 / 631

EXHIBIT 6K1

800 MHz DAMPS SPURIOUS EMISSIONS RADIATED

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Per 2.1053 and 22.917 (e), field strength of spurious radiation was measured at Underwriters Laboratories Inc. Research Triangle Park, NC site. The measurement procedure is per EIA IS-137 conducted on a 3-meter test site. Results are shown on the following Exhibits.

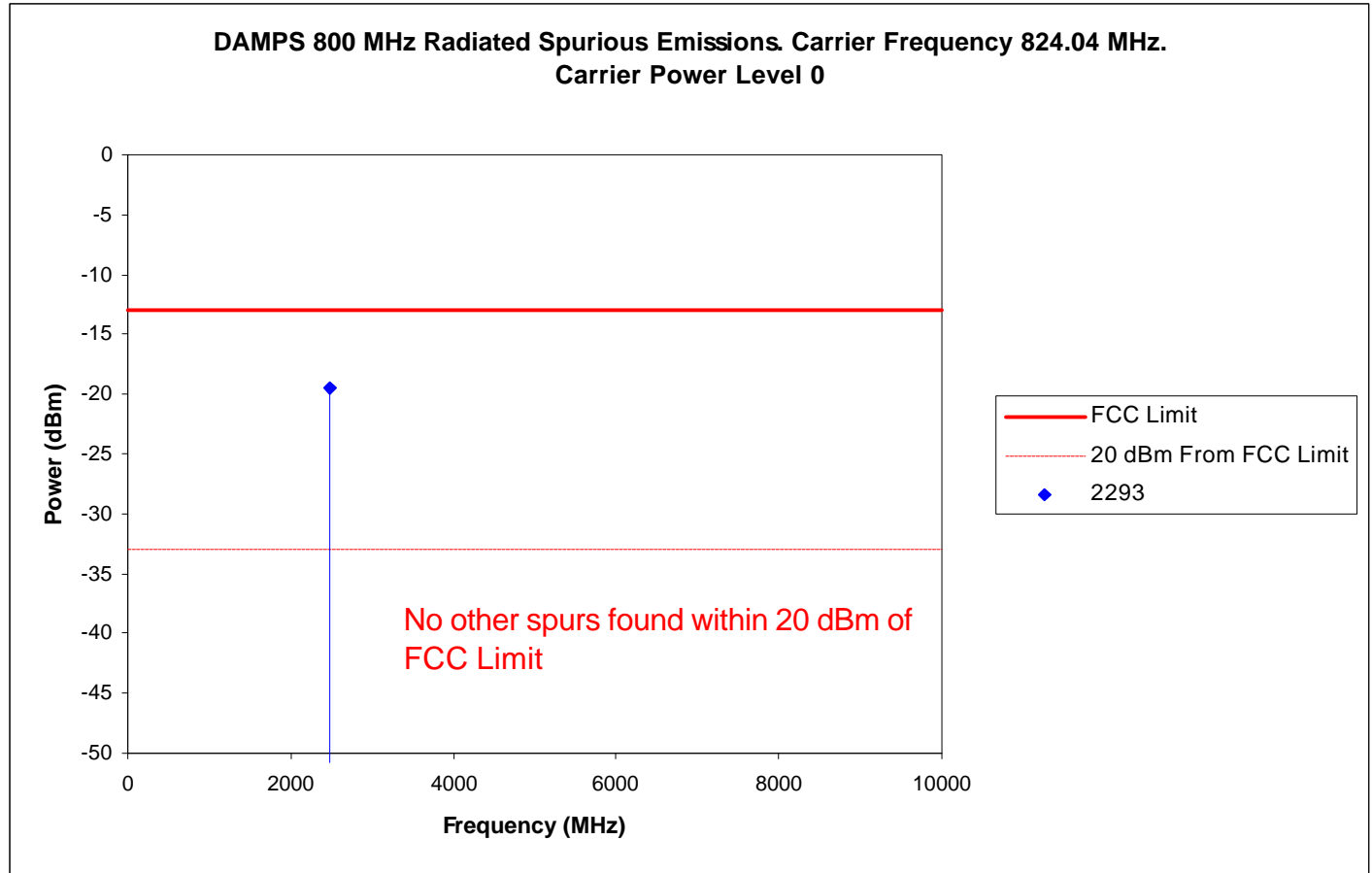
Note: The spectrum was examined through the 10<sup>th</sup> harmonic of the carrier. Maximum radiated emissions were recorded.

<u>EXHIBIT</u>	<u>FREQUENCY</u>	<u>OUTPUT POWER LEVEL</u>
6K2	Low-Band	0

The measurements were made per IS 137 using a Hewlett Packard 8953DT North American Dual Mode Cellular Test System which includes the following equipment:

HP8566B Spectrum Analyzer 100Hz 25GHz / 2 – 22GHz  
HP 83752A Signal Generator (S/N: 361DA01426)  
30dB Amplifier - Amplifier Research (AR) (S/N: 23413)  
Power Meter - Rhode & Schwartz (S/N: DE21529)  
Power Sensor (S/N: 8479771011)  
2 Test Cables (S/N's: ZATA21, ATA055)  
20dB Pad (S/N: ATA005)  
EMCO 3115 Double Ridge Horn Antenna  
Test Fixture (Fixture provides height adjustment for mobiles and antennas according to FCC requirements)

Exhibit 6K2



**1900 MHz DAMPS RF POWER OUTPUT**

**Para. 2.1033 (c)(6)(7), 2.1046 and 24.232 (b)(c)**

For Canada use only (6M2 and 6M3): The RF power measured at the output terminals (antenna connector) is plotted against supply voltage variation and temperature variations at the highest levels.

Exhibit	Voltage (V)	Temperature	TX Freq	Power Level
6M2	Nominal Volt.	Varied	1879.98 MHz	0
6M3	Varied	+25 C	1879.98 MHz	0

Note: The manufacturers rated voltage for the battery is 3.4 VDC to 4.2 VDC.

The measurements were made per IS 137 using a Hewlett Packard 8953DT North American Dual Mode Cellular Test System which includes the following equipment:

HP EPM-441A Power Meter  
HP 66309B Dual Output Mobile Comm. DC Source  
Thermotron SM-8C Temperature Chamber

**EFFECTIVE RADIATED POWER**

The following is a description of the substitution method used in accordance with IS-137A to obtain accurate EIRP readings at the carrier fundamental frequency:

- (1) The unit under test is placed 3 m away from the measurement antenna in vertical position. The measurements are made by using calibrated antennas and equipment with known cable losses.
- (2) A maximized measurement is made by raising and lowering the measurement antenna and rotating the EUT 360 degrees. Horizontal and vertical polarization data is recorded as reference.
- (3) A generator, an amplifier, and a horn antenna are then substituted for the EUT.
- (4) Data obtained with known power levels into the substitution antenna are then compared to the reference reading. The EIRP of the product is calculated.

Table: EIRP

Mode	f (MHz)	* Radiated (dBm/mW)
DAMPS	1850	23.2 / 209
	1880	24.7 / 295
	1910	26 / 400

EXHIBIT 6P1

**1900MHz SPURIOUS EMISSIONS (CONDUCTED)**

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Per 2.1051, 24.238 Spurious emissions at the antenna terminals (conducted) when properly loaded with an appropriate artificial antenna were measured per IS-137A.

Note: The spectrum was examined through the 10<sup>th</sup> harmonic of the carrier.

<u>EXHIBIT #</u>	<u>FREQUENCY (MHz)</u>	<u>Output Power level</u>
6P2	1879.98 MHz	0

The measurements were made per IS-137A using the following equipment:

HP E7405A EMC Spectrum Analyzer 9 kHz – 26.5 GHz  
HP EPM-441A Power Meter  
HP 66309B Dual Output Mobile Comm. DC Source

EXHIBIT 6P2

