

**EXHIBIT VI. Supplemental Test Report For New Certification  
Of A Previously Certified OEM Module**

FCC ID: AZ489FT7003

HDT 600 Handheld Data Terminal

Certification Under Part 24

Prepared On Behalf Of

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## Supplemental Test Report

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*Note: Please refer to the original Certification data for FCC ID: IHDT6AC1 uploaded with this application for all other test report Exhibits.*

**EXHIBIT 6A TEST: RF Power Output**

FCC ID: AZ489FT7003  
 Grantee: Motorola, Inc.  
 Model: F4415A

Minimum Standard Specified: Part 24.232 (b) Mobile /portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

Test Results: complies with the 2 Watt EIRP limit

Authorization Procedure: Part 2.1046

Maximum Measured Output Power: 30.9 dBm

**Measured Conducted Tabular Results**

1. The transmitter was set at maximum power step “0” and modulated with pseudo random data.
2. The peak output power was measured with HP438A Power Meter & HP8482H Power Sensor.
3. The measured channels - 512, 661, and 810 covered the bottom, middle and top of the operational frequency range approved for this transmitter of 1850.2 – 1909.8MHz.

<b>Test Mode TDMA</b>	<b>HDT 600 PCS1900</b>		<b>g18</b>		
<b>Frequency (MHz)</b>	<b>Power (W)</b>	<b>Power (dBm)</b>	<b>Antenna Gain (dB)</b>	<b>EIRP (dBm)</b>	<b>Power step</b>
1850.2 (Ch.512)	1.023	30.10	0.8	30.90	0
1880.0 (Ch.661)	1.016	30.07	0.8	30.87	0
1909.8 (Ch.810)	0.990	29.96	0.8	30.76	0

<b>System</b>	<b>Type</b>	<b>Electrical Length</b>	<b>Physical Length</b>	<b>Max Gain (dBi)</b>
WAN g18	Monopole Tri-band	$\lambda/4$	40 mm	PCS1900 <b>+0.8</b>

**EXHIBIT 6G TEST: TRANSMITTER RADIATED SPURIOUS EMISSIONS**

FCC ID: AZ489FT7003  
 Grantee: Motorola, Inc.  
 Model: F4415A  
 Serial No.: ESN

Minimum Standard Specified: Part 22.917e & 24.238

Test Results: Equipment complies with standard

Authorization Procedure: Part 2.1053

Test Equipment Set Up: See Block Diagram in Exhibit 7

Frequency Range Observed: 0 to 1909.8 MHz

Operating Frequencies: 1850.2, 1880, & 1909.8 MHz

Power Output: < 2 Watt EIRP

Spurious Limit =  $43 + 10\text{Log}_{10} \text{PO} =$  = 43 dB below the carrier

PCS1900 ch number	Frequency in MHz	Level dB (below carrier)	Harmonics observed within 20 dB of Limit
Ch. 512	1850.20	-0-	
<b>2Fo - 10Fo</b>	3700.40 – 18502.0	> 63	None. All harmonics > 20 below spurious limit
Ch. 661	1880.00	-0-	
<b>2Fo - 10Fo</b>	3760.00 – 18800.0	> 63	None. All harmonics > 20 below spurious limit
Ch. 810	1909.80	-0-	
<b>2Fo - 10Fo</b>	381960 – 19098.0	> 63	None. All harmonics > 20 below spurious limit

At 3 meters EUT to antenna distance, using 1 MHz RBW and VBW. **All harmonic and spurious emissions were at least 20 dB below the limit.** The second harmonics was just visible at less than 6 inches and 100 kHz RBW & VBW. A high pass filter was used during the measurements of the harmonics, to reduce the fundamental signal and avoid overloading the front end of the analyzer. No emissions were measureable even without the high pass filter.

**Test: Equivalent Isotropic Radiated Power**

FCC ID: AZ489FT7003  
 Grantee: Motorola, Inc.  
 Model: F4415A

**Discussion:**

Measurements of the EIRP were made at 3 meters EUT to antenna spacing. The EUT was investigated in three mutually orthogonal planes. The maximum levels reported below were observed with the HDT 600 standing upright in the middle of the turntable. Turntable rotation, combined with antenna height and polarization adjustments were made to maximize the measured levels.

**Note:** The maximum radiated output, including antenna gain and cable loss must not exceed 2.0 Watts EIRP as stipulated on the original grant of Certification for the FCC ID: IHDT6AC1.

CHANNEL and FREQUENCY in MHz	Spectrum Analyzer Reading dBuV	Ant Factor	Cable Loss	dBuV/m	uV/m	EIRP Watts	EIRP Limit
Ch.512 1850.0	96.17	27.15	2.2	125.52	1887991.349	1.06	< 2.0
Ch.661 1880.0	98.67	27.15	2.2	128.02	2517676.928	1.90	< 2.0
Ch.810 1909.8	98.17	27.15	2.2	127.52	2376840.287	1.69	< 2.0