



**MOTOROLA**

**Date:** September 14, 2007

**Subject:** Request for additional information regarding FCC ID: IHDT56HE1

**Reference:**

Correspondence Reference Number: IHD7621  
731 Confirmation Number: 707110621-23  
Date of Original Email: September 10, 2007

**Prepared by:**

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Motorola Mobile Device Business  
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Questions and responses follow:

1. The Operational Description submitted only describes the charging and safety aspects of the EUT. Please submit an Operational Description of the RF function of the EUT.

**Response:** Please refer to exhibit 12A.

2. Please submit an Operational Description for the Bluetooth transmitter.

**Response:** Please refer to exhibit 12B.

3. Please provide the actual cal due dates for the test equipment used in the UL Bluetooth Radiated Emissions report.

**Response:** The UL lab confirms that their report is written in accordance with ISO 17025, and all test equipment was within the calibration cycle at the time of test.

4. The Recommended Limit (Target Value) for the 1800 MHz SAR System Verification should be the "Grand Average" value from the Dipole Characterization Certificate, as it was for the 900 MHz measurement. Please correct, and also submit the Dipole Characterization Certificate for the 1800 MHz dipole used in the System Verification tests.

**Response:** Please refer to the following table and the 1800 MHz certificate.

| $f$<br>(MHz) | Description           | SAR (W/kg),<br>1gram | Dielectric Parameters |                | Ambient<br>Temp (°C) | Tissue<br>Temp (°C) |
|--------------|-----------------------|----------------------|-----------------------|----------------|----------------------|---------------------|
|              |                       |                      | $\epsilon_r$          | $\sigma$ (S/m) |                      |                     |
| 900          | Measured, 08-Aug-2007 | 11.48                | 40.2                  | 0.97           | 21.3                 | 21.4                |
|              | Recommended Limits    | 11.24                | 41.5 $\pm$ 5%         | 0.97 $\pm$ 5%  | 18-25                | 18-25               |
| 1800         | Measured, 13-Aug-2007 | 35.85                | 40.4                  | 1.36           | 21.6                 | 21.9                |
|              | Measured, 21-Aug-2007 | 37.10                | 39.7                  | 1.39           | 20.8                 | 20.8                |
|              | Recommended Limits    | 37.5                 | 40.0 $\pm$ 5%         | 1.4 $\pm$ 5%   | 18-25                | 18-25               |

# Certification of System Performance Check Targets

Based on WI-0396

-Historical Data-

|                                                                      |                                                                                                                                           |        |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------|
|                                                                      | 1800MHz                                                                                                                                   |        |
| IEEE1528 Target:                                                     | 38.1                                                                                                                                      | (W/kg) |
| Measurement Uncertainty (k=1):                                       | 9.0%                                                                                                                                      |        |
|                                                                      |                                                                                                                                           |        |
| Measurement Period:                                                  | 10-May-06 to 18-April-07                                                                                                                  |        |
| # of tests performed:                                                | 1314                                                                                                                                      |        |
| Grand Average:                                                       | 37.5                                                                                                                                      | (W/kg) |
| % Delta (Average - IEEE1528 Target)                                  | -1.6%                                                                                                                                     |        |
|                                                                      |                                                                                                                                           |        |
| Is % Delta <= Expanded Measurement Uncertainty (k=2)?                | Yes                                                                                                                                       |        |
|                                                                      |                                                                                                                                           |        |
| Accept/Reject <u>Average</u> as new system performance check target? | ACCEPT                                                                                                                                    |        |
|                                                                      | Applies to Dipole SN's:<br>246tr, 250tr, 251tr, 259tr, 263tr, 271tr, 272tr, 276tr, 277tr, 279tr, 280tr, 281tr, 283tr, 284tr, 2d128, 2d129 |        |

-New System Performance Check Targets- per WI-0396  
(based on analysis of historical data)

| Frequency | SAR Target (W/kg) | Permittivity | Conductivity (S/m) |
|-----------|-------------------|--------------|--------------------|
| 1800MHz   | 37.5              | 40.0 ± 5%    | 1.40 ± 5%          |

-Approvals-

Submitted by: Marge Kaunas Date: 24-Apr-07

Signed: Marge Kaunas

Comments: Spreadsheet detailing referenced historical measurements is available upon request.

Approved by: Mark Douglas Date: 1-May-07

Signed: Mark Douglas

Comments: