June 4, 2004
Supplement to SAR Test Report – (Class II) for Motorola portable cellular phone
(FCC ID: IHDT6DT1)

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Summary of FCC request for additional information

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDT6DT1). The requested information is addressed below in the same numbering sequence received.

1. Please submit photographs for the body SAR testing.

**Response:** Please see photographs below.

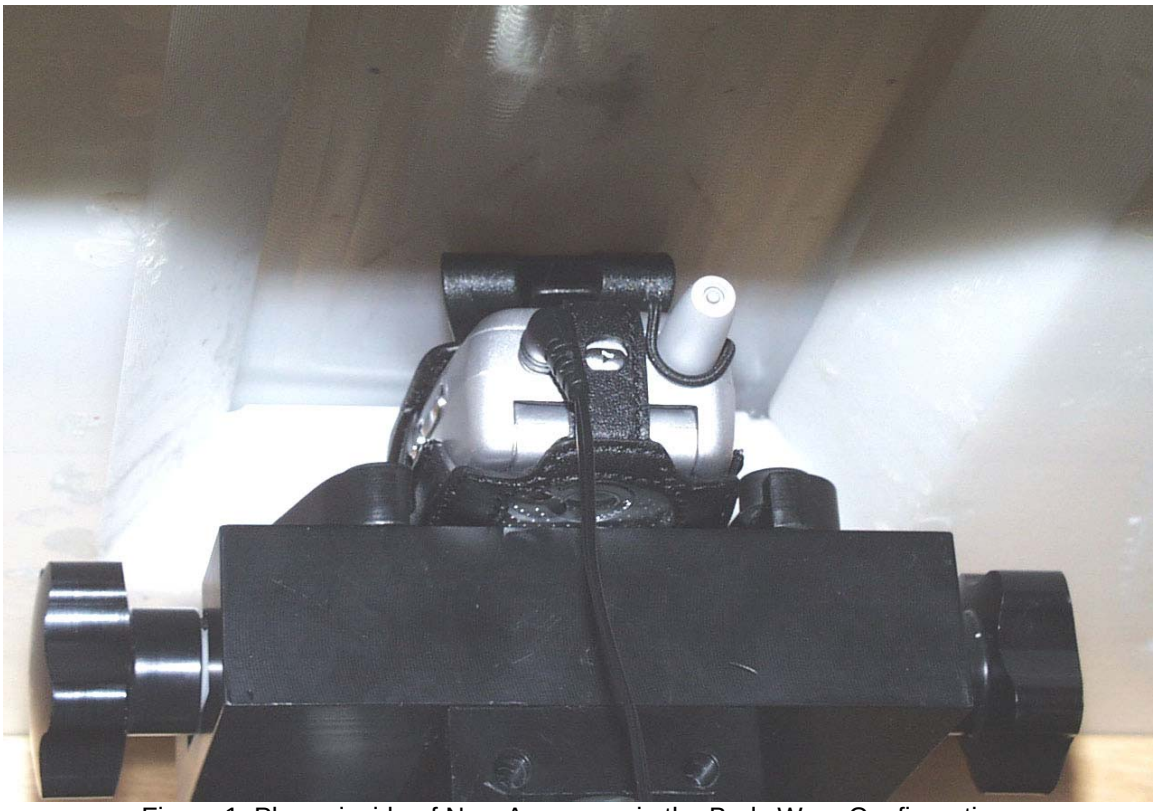

Figure 1. Phone inside of New Accessory in the Body Worn Configuration.

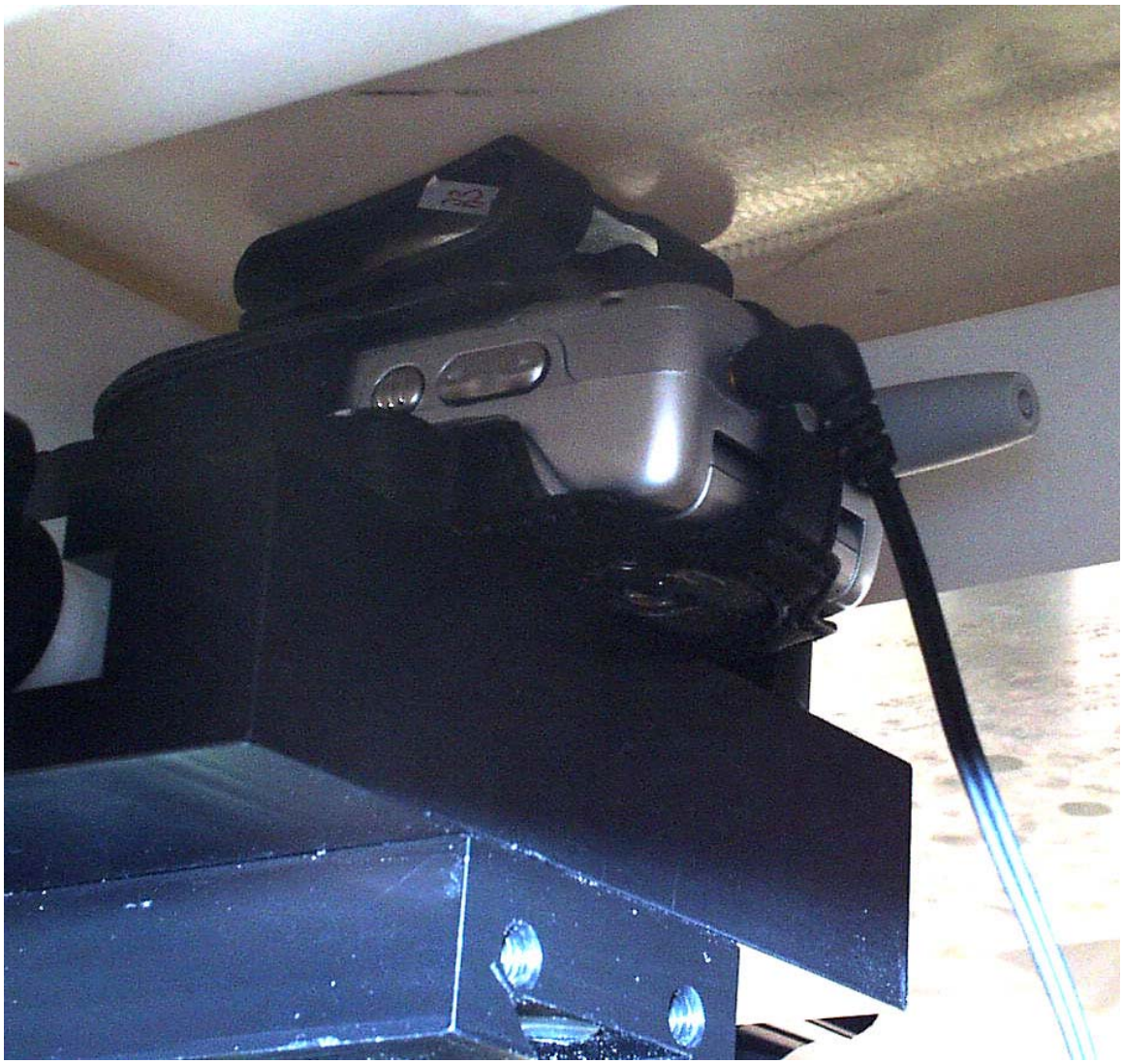

Figure 2. Different View of Phone inside of New Accessory in the Body Worn Configuration.

2.0 The wrong probe (SN1514) is listed on page 4 of the SAR report.

**RESPONSE:** The Probe number was incorrectly entered into the table on page 4. The Conversion Factors were correct for the tests that were run. This can be verified by cross-referencing with the Validation Plots in Appendix 1. A corrected version of Section 4 – System Accuracy Verification is included below.

## 4. System Accuracy Verification

A system accuracy verification of the DASY3 was performed using the measurement equipment listed in Section 3.1. The daily system accuracy verification occurs within center section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR indicated on the dipole certification sheet. These tests were done at 900MHz and/or 1800MHz. These frequencies are within 100MHz of the mid-band frequency of the test device. This is within the allowable window given in Supplement C 01-01 *Appendix D System Verification* section item #5. The test was conducted on the same days as the measurement of the DUT. Recommended limits for maximum permittivity, minimum conductivity are shown in the table below. These come from the Federal Communication Commission, OET Bulletin 65 Supplement C 01-01. The obtained results from the system accuracy verification are displayed in the table below. The distributions of SAR compare well with those of the reference measurements (see Appendix 1). The tissue stimulant depth was verified to be 15.0cm ±0.5cm. Z-axis scans showing the SAR penetration are also included in Appendix 1. SAR values are normalized to 1W forward power delivered to the dipole.

| *f* (MHz) | Description | SAR (W/kg), 1gram | Dielectric Parameters | | Ambient Temp (°C) | Tissue Temp (°C) |
|---|---|---|---|---|---|---|
| | | | $\varepsilon_r$ | σ (S/m) | | |
| **835** | **Measured,** 25-Apr-04 | 9.65 | 42.1 | 0.91 | 20 | 19.3 |
| | **Recommended Limits** | 10.00 | 41.5 ±5% | 0.90 ±5% | 18-25 | 18-25 |
| **1800** | **Measured,** 25-Apr-04 | 40.3 | 38.5 | 1.37 | 20 | 19.2 |
| | **Recommended Limits** | 40.7 | 40.0 ±5% | 1.4 ±5% | 18-25 | 18-25 |

The following probe conversion factors were used on the E-Field probe(s) used for the system accuracy verification measurements:

| Description | Serial Number | f (MHz) | Conversion Factor | Cal Cert pg # |
|---|---|---|---|---|
| E-Field Probe ET3DV6 | SN3037 | 835 | 6.1 | 7 of 10 |
| | | 1800 | 4.9 | 7 of 10 |