



RF EXPOSURE LAB, LLC

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R&D TESTING SAR EVALUATION

Global Quantech, Inc.
391 Avenida La Cuesta
San Marcos, CA 92078

Dates of Test: November 9, 2007
Test Report Number: R&D.20071102
Revision A

| | |
|-------------------------|---|
| Model(s): | MRET Active Noise Field Generator |
| Serial No.: | Prototype |
| Equipment Use for Test: | Qualcomm Model QCP-2035a S/N B3266834 Kyocera Wireless Model 2325 S/N 457E8CE6 Samsung Model SCH-A670 S/N298F6709 |
| Classification: | Licensed Portable Transmitter Held Next to Head |
| TX Frequency Range: | 824.7 – 848.31 MHz, 1851.25 – 1908.75 MHz |
| Maximum RF Output: | 23 dBm Conducted |
| Signal Modulation: | CDMA |
| Antenna Type (Length): | Standard with each Model |
| Application Type: | R&D |
| FCC Rule Parts: | Part 22 and Part 24 |

This wireless mobile and/or portable device has been evaluated for localized specific absorption rate (SAR) for controlled environment/occupational exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in IEEE 1528-2003 and OET Bulletin 65 Supp. C (See test report).

I attest to the accuracy of the data. All measurements were performed by myself or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Jay M. Moulton
Vice President



Certificate # 2387.01

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1. Simulating Tissue Specifications

Brain & Muscle Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydroxethylcellulose (HEC) gelling agent and saline solution. Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following tables. Other head and body tissue parameters that have not been specified in P1528 are derived from the issue dielectric parameters computed from the 4-Cole-Cole equations.

Table 1.1 Typical Composition of Ingredients for Tissue

| Ingredients | Simulating Tissue | | |
|---------------------|-------------------|----------------|-------|
| | 835 MHz Brain | 1900 MHz Brain | |
| Mixing Percentage | | | |
| Water | 51.07 | 54.88 | |
| DGBE | 0.00 | 44.91 | |
| Sugar | 47.31 | 0.00 | |
| Salt | 1.15 | 0.21 | |
| Bacteriacide | 0.24 | 0.00 | |
| HEC | 0.23 | 0.00 | |
| Dielectric Constant | Target | 41.50 | 40.00 |
| Conductivity (S/m) | Target | 0.90 | 1.40 |