

SAR EVALUATION REPORT

For

CONNECTED THINKING LLC

2025 NW 102 Ave, Suite # 104 Miami, FL 33172 USA

FCC ID: 2AHCS-C2

| | |
|---|--------------------------------------|
| Report Type: Original Report | Product Type: Mobile phone |
| Test Engineer: | Rocky Xiao |
| Report Number: | RDG151202003-20 |
| Report Date: | 2016-01-27 |
| Reviewed By: | Sula Huang |
| Test Laboratory: | RF Leader |
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| Attestation of Test Results | | | | |
|-----------------------------|---|----------------------------------|-------------|--|
| EUT Information | Company Name | CONNECTED THINKING LLC | | |
| | EUT Description | Mobile phone | | |
| | Product Name | Mobile phone | | |
| | FCC ID | 2AHCS-C2 | | |
| | Tested Model | C2 | | |
| | Multiple Model | C3, C4 | | |
| | Serial Number | 151202003 | | |
| | Test Date | 2015-12-07 | | |
| MODE | | Max. SAR Level(s) Reported(W/Kg) | Limit(W/Kg) | |
| GSM 850 | 1g Head SAR | 0.536 | 1.6 | |
| | 1g Body SAR | 0.795 | | |
| PCS 1900 | 1g Head SAR | 0.133 | | |
| | 1g Body SAR | 0.706 | | |
| Simultaneous | 1g Head SAR | 0.616 | | |
| | 1g Body SAR | 0.822 | | |
| Applicable Standards | ANSI / IEEE C95.1 : 2005 IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fileds,3 kHz to 300 GHz. | | | |
| | ANSI / IEEE C95.3 : 2002 IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to SuchFields,100 kHz—300 GHz. | | | |
| | FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices | | | |
| | IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques | | | |
| | IEC 62209-2:2010 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices-Human models, instrumentation, and procedures-Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) | | | |
| | KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 648474 D04 Handset SAR v01r03 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 | | | |
| | Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in ANSI/IEEE Standards and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures. The results and statements contained in this report pertain only to the device(s) evaluated. | | | |

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| 0 | RDG151202003-20 | Original Report | 2016-01-27 |

EUT DESCRIPTION

This report has been prepared on behalf of *CONNECTED THINKING LLC* and their product, Model: C2, FCC ID: 2AHCS-C2 or the EUT (Equipment under Test) as referred to in the rest of this report.

Note: The series product, model C2, C3, C4 are electrically identical, the differences between them is model name, we selected C2 for testing, the details was explained in the attached declaration letter.

Technical Specification

| | |
|-------------------------------|--|
| Exposure Category: | Population / Uncontrolled |
| Antenna Type(s): | Internal Antenna |
| Body-Worn Accessories: | Headset |
| Face-Head Accessories: | None |
| Multi-slot Class: | Class12 |
| Operation Mode : | GSM Voice, GPRS Data, Bluetooth |
| Frequency Band: | GSM 850 : 824-849 MHz(TX) ; 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX) ; 1930-1990 MHz(RX) Bluetooth : 2402MHz-2480 MHz |
| Conducted RF Power: | GSM 850 : 32.87 dBm PCS 1900: 29.76 dBm Bluetooth: 2.6 dBm |
| Dimensions (L*W*H): | 11.2 cm (L) × 5.0 cm (W) × 1.3 cm (H) |
| Power Source: | 3.7 VDC Rechargeable Battery |
| Normal Operation: | Head and Body-worn |

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Limits**FCC Limit**

| EXPOSURE LIMITS | SAR (W/kg) | |
|--|--|--|
| | (General Population / Uncontrolled Exposure Environment) | (Occupational / Controlled Exposure Environment) |
| Spatial Average (averaged over the whole body) | 0.08 | 0.4 |
| Spatial Peak (averaged over any 1 g of tissue) | 1.60 | 8.0 |
| Spatial Peak (hands/wrists/feet/ankles averaged over 10 g) | 4.0 | 20.0 |

CE Limit

| EXPOSURE LIMITS | SAR (W/kg) | |
|--|--|--|
| | (General Population / Uncontrolled Exposure Environment) | (Occupational / Controlled Exposure Environment) |
| Spatial Average (averaged over the whole body) | 0.08 | 0.4 |
| Spatial Peak (averaged over any 10 g of tissue) | 2.0 | 10 |
| Spatial Peak (hands/wrists/feet/ankles averaged over 10 g) | 4.0 | 20.0 |

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg (FCC) & 2 W/kg (CE) applied to the EUT.

FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

FINAL

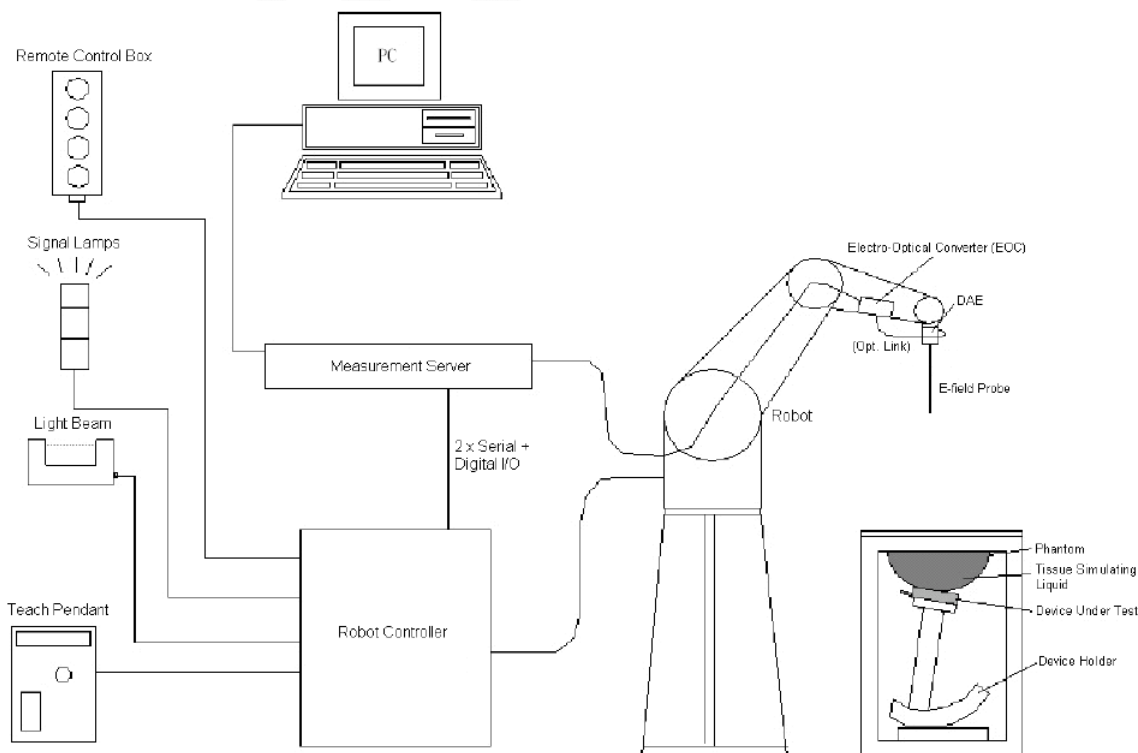
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

| | |
|----------------------|---|
| Frequency | 10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz) |
| Directivity | ± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis) |
| Dynamic Range | 10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g) |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm |
| Application | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |
| Compatibility | DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI |

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas:

- _ Left hand
- _ Right hand
- _ Flat phantom

The phantom table for the DASY systems based on the TX90XL and RX160L robots have the size of 100 x 50 x 85 cm (L x W x H).

The phantom table for the compact DASY systems based on the RX60L robot have the size of 100 x 75 x 91 cm (L x W x H); these tables are reinforced for mounting of the robot onto the table.

For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)

A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.



Robots

The DASY5 system uses the high precision industrial robots TX90XL from Staubli SA (France). The TX robot family is the successor of the well known RX robot family and offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x 7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Recommended Tissue Dielectric Parameters for Head and Body

| Frequency (MHz) | Head Tissue | | Body Tissue | |
|--------------------|--------------|----------------|--------------|----------------|
| | ϵ_r | σ (S/m) | ϵ_r | σ (S/m) |
| 150 | 52.3 | 0.76 | 61.9 | 0.80 |
| 300 | 45.3 | 0.87 | 58.2 | 0.92 |
| 450 | 43.5 | 0.87 | 56.7 | 0.94 |
| 835 | 41.5 | 0.90 | 55.2 | 0.97 |
| 900 | 41.5 | 0.97 | 55.0 | 1.05 |
| 915 | 41.5 | 0.98 | 55.0 | 1.06 |
| 1450 | 40.5 | 1.20 | 54.0 | 1.30 |
| 1610 | 40.3 | 1.29 | 53.8 | 1.40 |
| 1800-2000 | 40.0 | 1.40 | 53.3 | 1.52 |
| 2450 | 39.2 | 1.80 | 52.7 | 1.95 |
| 3000 | 38.5 | 2.40 | 52.0 | 2.73 |
| 5800 | 35.3 | 5.27 | 48.2 | 6.00 |

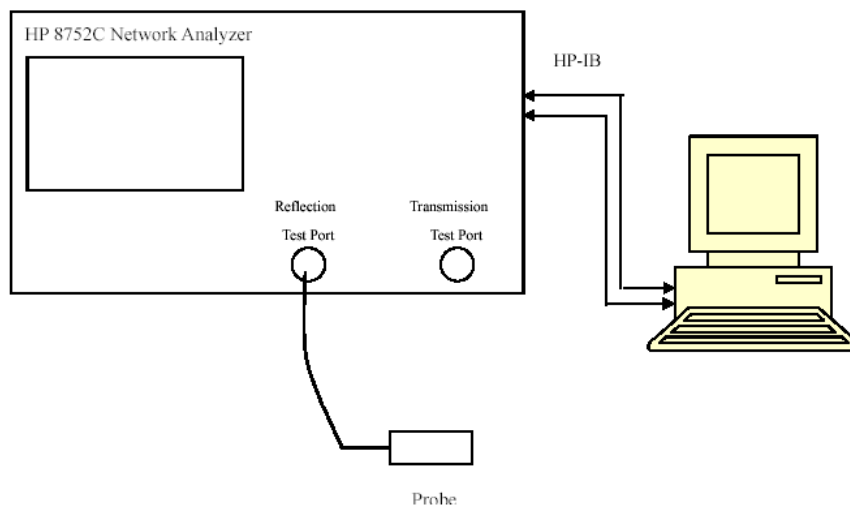
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

| Equipment | Model | S/N | Calibration Date | Calibration Due Date |
|---|---------------|---------------|------------------|----------------------|
| Robot | RX90 | D03636 | N/A | N/A |
| DASY5 Test Software | DASY52.8 | N/A | N/A | N/A |
| DASY5 Measurement Server | DASY5 4.5.12 | 1470 | N/A | N/A |
| Data Acquisition Electronics | DAE4 | 1459 | 2015/9/18 | 2016/9/18 |
| E-Field Probe | EX3DV4 | 7329 | 2015/2/5 | 2016/2/4 |
| Dipole, 900 MHz | D900V2 | 1d183 | 2015/7/14 | 2018/7/14 |
| Dipole,1900MHz | D1900V2 | 5d206 | 2015/7/14 | 2018/7/14 |
| R&S, universal Radio Communication Tester | CMU200 | 109 038 | 2015/7/28 | 2016/7/27 |
| Mounting Device | MD4HHTV5 | SD 000 H01 KA | N/A | N/A |
| Twin SAM | Twin SAM V5.0 | 1874 | N/A | N/A |
| Simulated Tissue 835 MHz Head | TS-835-H | 201504 | Each Time | / |
| Simulated Tissue 835 MHz Body | TS-835-B | 201505 | Each Time | / |
| Simulated Tissue 1900 MHz Head | TS-1900-H | 201506 | Each Time | / |
| Simulated Tissue 1900 MHz Body | TS-1900-B | 201507 | Each Time | / |
| Network Analyzer | 8752C | 3140A02356 | 2015/6/5 | 2016/6/4 |
| Dielectric probe kit | 85070B | US33020324 | 2015/6/13 | 2016/6/13 |
| Signal Generator | E4422B | MY41000355 | 2015/11/23 | 2016/11/22 |
| Power Meter | EPM-441A | GB37481494 | 2015/11/3 | 2016/11/3 |
| Power Meter Sensor | 8481A | T-03-EM-127 | 2015/11/3 | 2016/11/3 |
| Power Amplifier | 5205PE | 1015 | N/A | N/A |
| Directional Coupler | 488Z | N/A | N/A | N/A |
| Attenuator | 20dB, 100W | N/A | N/A | N/A |

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

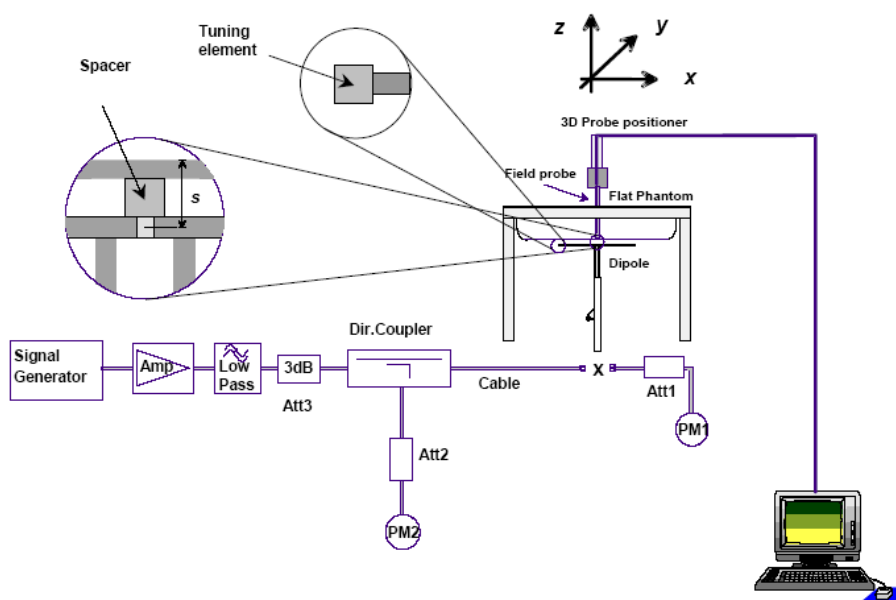
| Frequency | Liquid Type | Liquid Parameter | | Target Value | | Delta (%) | | Tolerance (%) |
|-----------|--------------------------------|------------------|----------------|--------------|----------------|--------------------|----------------------|---------------|
| | | ϵ_r | σ (S/m) | ϵ_r | σ (S/m) | $\Delta\epsilon_r$ | $\Delta\sigma$ (S/m) | |
| 836.6 | Simulated Tissue 835 MHz Head | 42.934 | 0.878 | 41.5 | 0.9 | 3.46 | -2.44 | ± 5 |
| | Simulated Tissue 835 MHz Body | 55.135 | 0.963 | 55.2 | 0.97 | -0.12 | -0.72 | ± 5 |
| 846.6 | Simulated Tissue 835 MHz Head | 42.87 | 0.893 | 41.5 | 0.9 | 3.3 | -0.78 | ± 5 |
| | Simulated Tissue 835 MHz Body | 55.129 | 0.976 | 55.2 | 0.97 | -0.13 | 0.62 | ± 5 |
| 848.8 | Simulated Tissue 835 MHz Head | 42.699 | 0.895 | 41.5 | 0.9 | 2.89 | -0.56 | ± 5 |
| | Simulated Tissue 835 MHz Body | 54.998 | 0.988 | 55.2 | 0.97 | -0.37 | 1.86 | ± 5 |
| 900 | Simulated Tissue 835 MHz Head | 42.554 | 0.912 | 41.5 | 0.9 | 2.54 | 1.44 | ± 5 |
| | Simulated Tissue 835 MHz Body | 55.168 | 0.965 | 55.2 | 0.97 | -0.06 | -0.52 | ± 5 |
| 1850.2 | Simulated Tissue 1900 MHz Head | 39.829 | 1.358 | 40 | 1.4 | -0.43 | -3 | ± 5 |
| | Simulated Tissue 1900 MHz Body | 55.304 | 1.48 | 53.3 | 1.52 | 3.76 | -2.63 | ± 5 |
| 1880 | Simulated Tissue 1900 MHz Head | 39.756 | 1.383 | 40 | 1.4 | -0.61 | -1.21 | ± 5 |
| | Simulated Tissue 1900 MHz Body | 53.747 | 1.544 | 53.3 | 1.52 | 0.84 | 1.58 | ± 5 |
| 1909.8 | Simulated Tissue 1900 MHz Head | 39.609 | 1.415 | 40 | 1.4 | -0.98 | 1.07 | ± 5 |
| | Simulated Tissue 1900 MHz Body | 53.387 | 1.492 | 53.3 | 1.52 | 0.16 | -1.84 | ± 5 |
| 1900 | Simulated Tissue 1900 MHz Head | 39.681 | 1.409 | 40 | 1.4 | -0.8 | 0.57 | ± 5 |
| | Simulated Tissue 1900 MHz Body | 54.185 | 1.515 | 53.3 | 1.52 | 1.66 | -0.39 | ± 5 |

*Liquid Verification above was performed on 2015-12-07.

System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

System Verification Setup Block Diagram



System Accuracy Check Results

| Date | Frequency Band | Liquid Type | Measured SAR | | Target Value | Delta (%) | Tolerance (%) |
|------------|----------------|--------------------------------|--------------|-------|--------------|-----------|---------------|
| 2015-12-07 | 900 | Simulated Tissue 835 MHz Head | 1g | 12.18 | 11.828 | 2.98 | ± 10 |
| | | Simulated Tissue 835 MHz Body | 1g | 11.31 | 11.072 | 2.15 | ± 10 |
| | 1900 | Simulated Tissue 1900 MHz Head | 1g | 41.3 | 40.7 | 1.47 | ± 10 |
| | | Simulated Tissue 1900 MHz Body | 1g | 40.5 | 40.8 | -0.74 | ± 10 |

*All SAR values are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)

System Performance 900 MHz Head

DUT: D900V2; Type: 900 MHz; Serial: 1d183

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 900$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.554$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.52, 9.52, 9.52); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 900 MHz Head /Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.7 W/kg

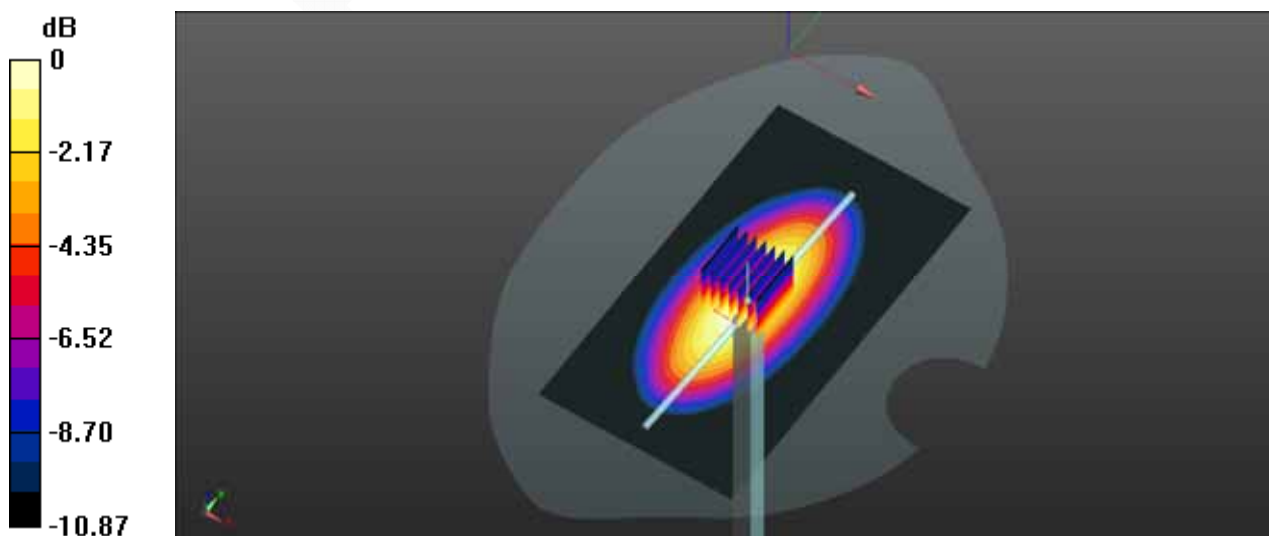
System Performance 900 MHz Head /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 115.3 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 12.18 W/kg; SAR(10 g) = 7.72 W/kg

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**System Performance 900 MHz Body****DUT: D900V2; Type: 900 MHz; Serial: 1d183**

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 900$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 55.168$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.17, 9.17, 9.17); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 900 MHz Body /Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.61 W/kg

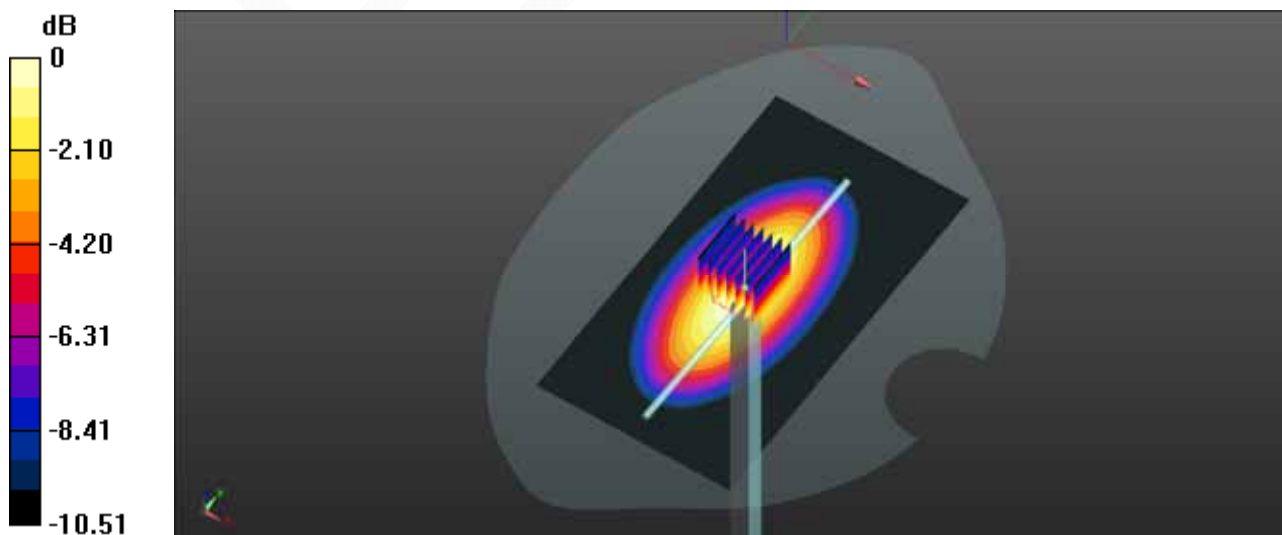
System Performance 900 MHz Body /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 113.5 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 15.1 W/kg

SAR(1 g) = 11.31 W/kg; SAR(10 g) = 7.44 W/kg

Maximum value of SAR (measured) = 14.06 W/kg



0 dB = 14.06 W/kg = 11.48 dBW/kg

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**System Performance 1900 MHz Head****DUT: D1900V2; Type: 1900 MHz; Serial: 5d206**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 39.681$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.88, 7.88, 7.88); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1900 MHz Head /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 48.6W/kg

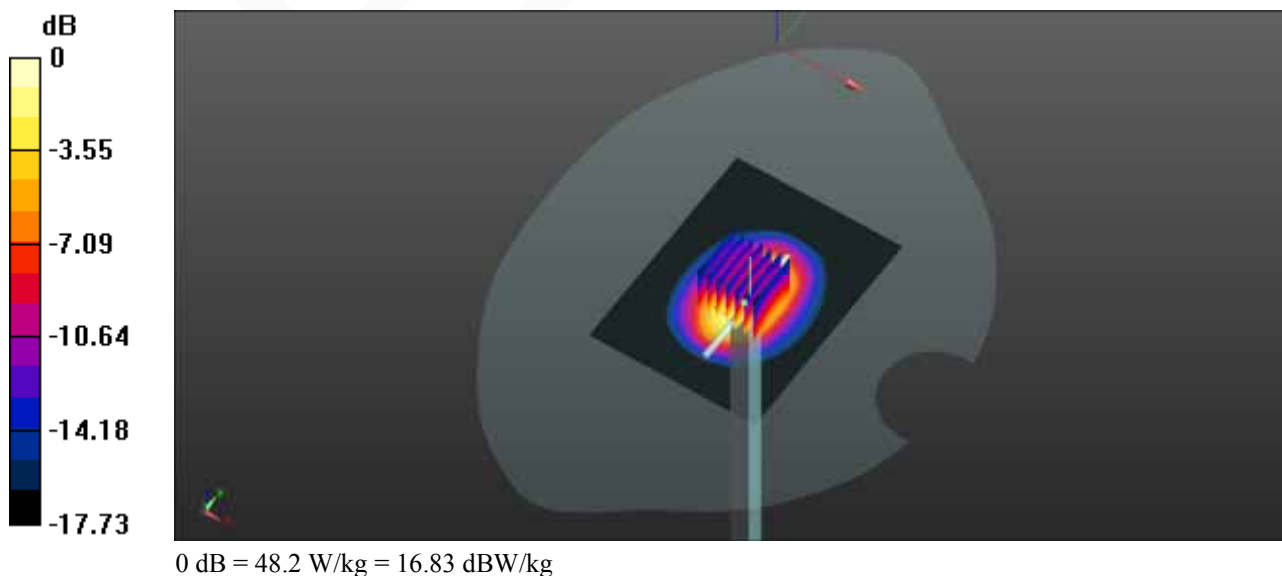
System Performance 1900 MHz Head /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 175.3 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 76.5 W/kg

SAR(1 g) = 41.3 W/kg; SAR(10 g) = 21.6 W/kg

Maximum value of SAR (measured) = 48.2 W/kg



Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**System Performance 1900 MHz Body****DUT: D1900V2; Type: 1900 MHz; Serial: 5d206**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.515$ S/m; $\epsilon_r = 54.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.56, 7.56, 7.56); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1900 MHz Body /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 49.5 W/kg

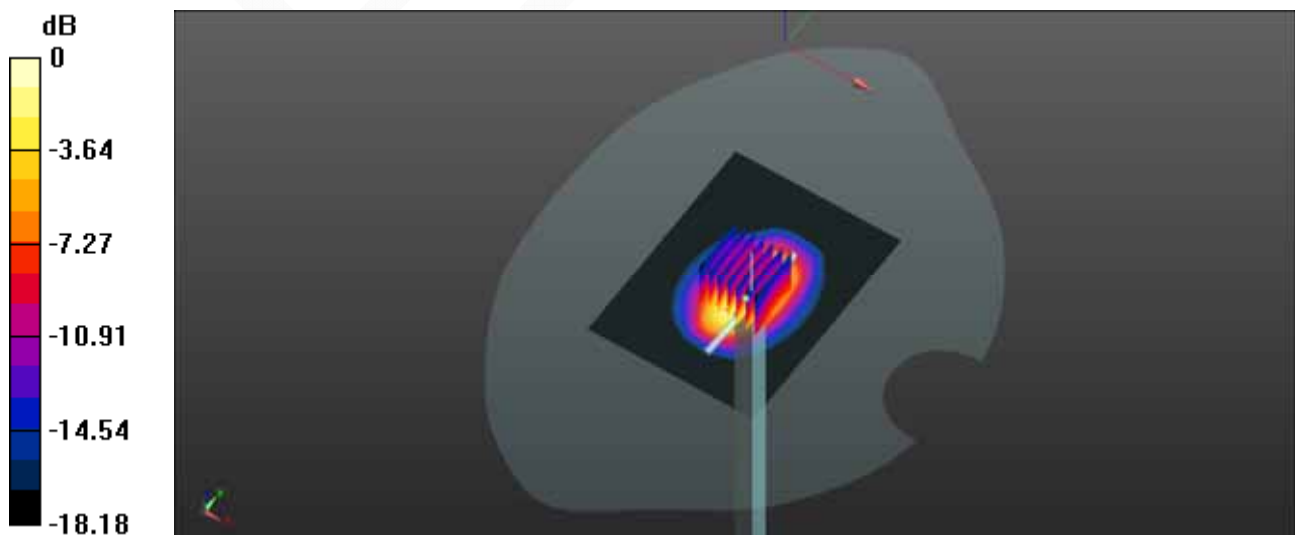
System Performance 1900 MHz Body /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 174.1 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 76.3 W/kg

SAR(1 g) = 40.5 W/kg; SAR(10 g) = 20.6 W/kg

Maximum value of SAR (measured) = 47.4 W/kg



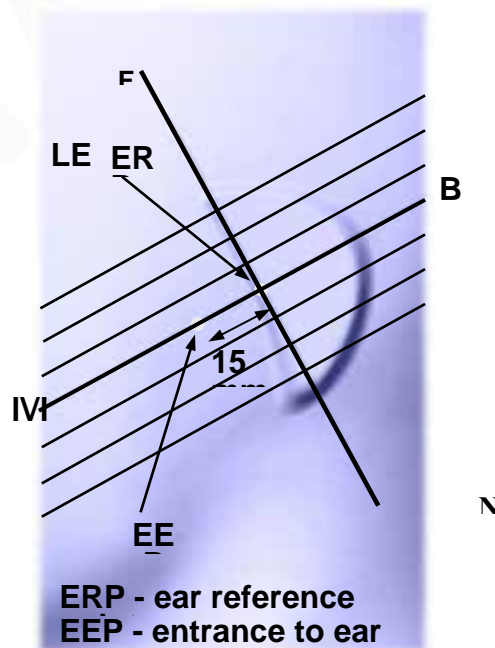
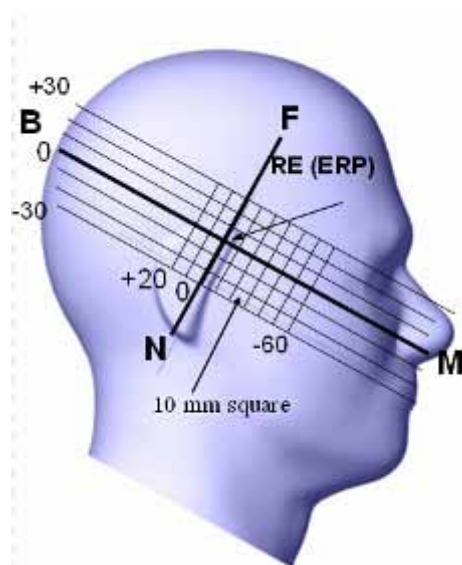
0 dB = 47.4 W/kg = 16.76 dBW/kg

EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the “test device reference point” located along the “vertical centerline” on the front of the device aligned to the “ear reference point”. The “test device reference point” should be located at the same level as the center of the earpiece region. The “vertical centerline” should bisect the front surface of the handset at its top and bottom edges. A “ear reference point” is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the “phantom reference plane” defined by the three lines joining the center of each “ear reference point” (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the “N-F” line defined along the base of the ear spacer that contains the “ear reference point”. For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The “test device reference point” is aligned to the “ear reference point” on the head phantom and the “vertical centerline” is aligned to the “phantom reference plane”. This is called the “initial ear position”. While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:



Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the “ear reference point” or along the “N-F” line for the SCC-34/SC-2 head phantom.

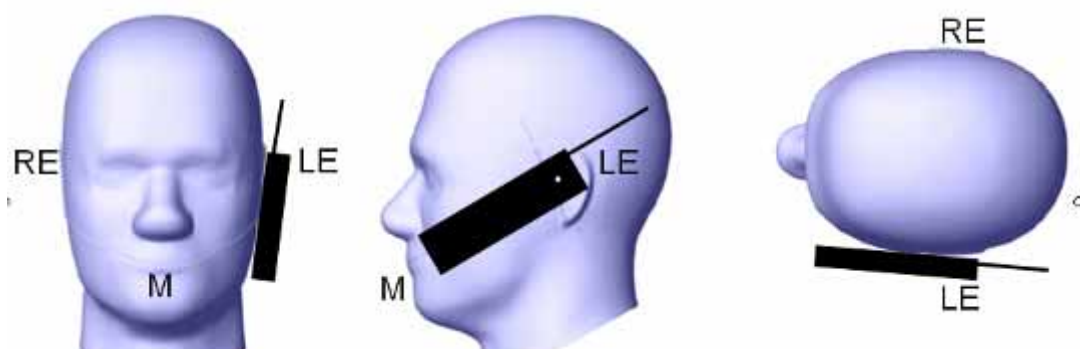
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



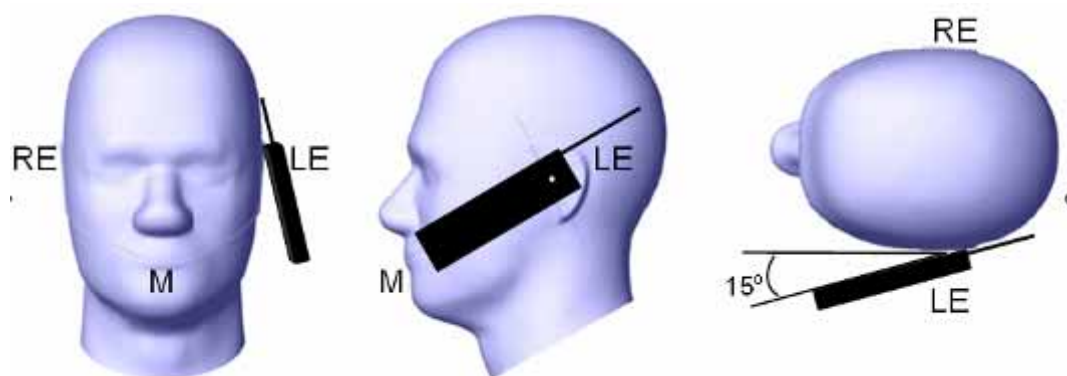
Ear/Tilt Position

With the handset aligned in the “Cheek/Touch Position”:

1) If the earpiece of the handset is not in full contact with the phantom’s ear spacer (in the “Cheek/Touch position”) and the peak SAR location for the “Cheek/Touch” position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the “initial ear position” by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both “ear reference points” (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the “test device reference point” until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both “ear reference points” until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the “Cheek/Touch” and “Ear/Tilt” positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position**Test positions for body-worn and other configurations**

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

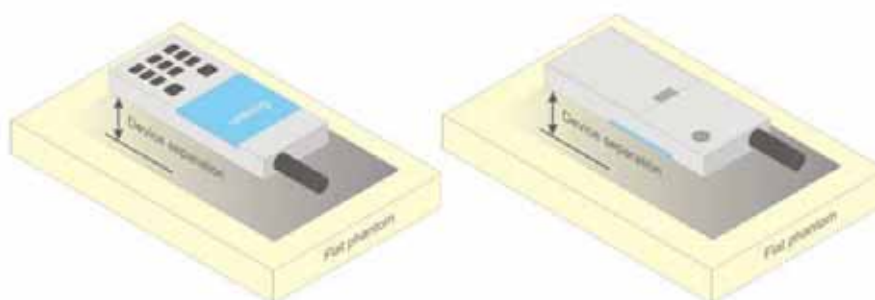


Figure 5 – Test positions for body-worn devices

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

- 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

- 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

Test methodology

KDB 447498 D01 General RF Exposure Guidance v06
KDB 648474 D04 Handset SAR v01r03
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02

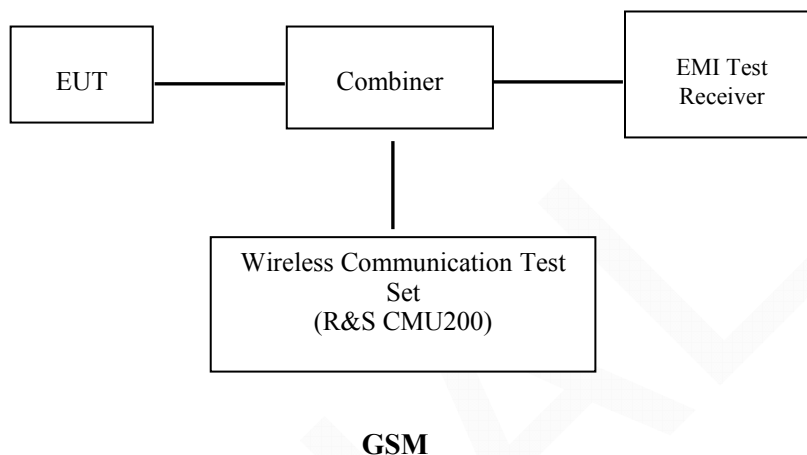
CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through sufficient attenuation.



Radio Configuration

GSM

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection: Press Signal Off to turn off the signal and change settings

Network Support > GSM + only

MS Signal

> 33 dBm for GSM 850

> 30 dBm for PCS 1900

BS Signal: Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset >+ 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel >choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

TCH > choose desired test channel

Hopping >Off

AF/RF: Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection: Press Signal on to turn on the signal and change settings

GPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection: Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal: Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850

> 30 dBm for GPRS 1900

BS Signal: Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset >+ 0 Hz

Mode >BCCH and TCH

BCCH Level >-85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

Slot Config > Unchanged (if already set under MS signal)

TCH > choose desired test channel

Hopping >Off

Main Timeslot >3

Network: Coding Scheme >CS4 (GPRS)

Bit Stream >2E9-1 PSR Bit Stream

AF/RF: Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection: Press Signal on to turn on the signal and change settings

Maximum Target Output Power

| Max Target Power(dBm) | | | |
|-----------------------|---------|--------|------|
| Mode/Band | Channel | | |
| | Low | Middle | High |
| GSM 850 | 33 | 33 | 33 |
| GPRS 1 TX Slot | 32.8 | 32.8 | 32.8 |
| GPRS 2 TX Slot | 30.8 | 30.8 | 30.8 |
| GPRS 3 TX Slot | 29.9 | 29.9 | 29.9 |
| GPRS 4 TX Slot | 28.4 | 28.4 | 28.4 |
| PCS 1900 | 29.9 | 29.9 | 29.9 |
| GPRS 1 TX Slot | 29.5 | 29.5 | 29.5 |
| GPRS 2 TX Slot | 28.9 | 28.9 | 28.9 |
| GPRS 3 TX Slot | 27.8 | 27.8 | 27.8 |
| GPRS 4 TX Slot | 26.8 | 26.8 | 26.8 |
| Bluetooth BDR/EDR | 2.7 | 2.7 | 2.7 |

Test Results:**GSM:**

| Band | Channel No. | Frequency (MHz) | RF Output Power (dBm) |
|----------|-------------|-----------------|-----------------------|
| GSM 850 | 128 | 824.2 | 32.87 |
| | 190 | 836.6 | 32.62 |
| | 251 | 848.8 | 31.85 |
| PCS 1900 | 512 | 1850.2 | 29.12 |
| | 661 | 1880 | 29.41 |
| | 810 | 1909.8 | 29.76 |

GPRS:

| Band | Channel No. | Frequency (MHz) | RF Output Power (dBm) | | | |
|----------|-------------|-----------------|-----------------------|---------|---------|---------|
| | | | 1 slot | 2 slots | 3 slots | 4 slots |
| GSM 850 | 128 | 824.2 | 32.38 | 30.01 | 29.55 | 28.07 |
| | 190 | 836.6 | 32.66 | 30.74 | 29.78 | 28.25 |
| | 251 | 848.8 | 31.47 | 30.08 | 28.75 | 27.11 |
| PCS 1900 | 512 | 1850.2 | 29.03 | 28.79 | 27.65 | 26.45 |
| | 661 | 1880 | 28.64 | 27.96 | 26.21 | 25.4 |
| | 810 | 1909.8 | 29.36 | 28.54 | 27.13 | 26.74 |

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

| Number of Time slot | 1 | 2 | 3 | 4 |
|--|-------|-------|----------|-------|
| Duty Cycle | 1:8 | 1:4 | 1:2.66 | 1:2 |
| Time based Ave. power compared to slotted Ave. power | -9 dB | -6 dB | -4.25 dB | -3 dB |
| Crest Factor | 8 | 4 | 2.66 | 2 |

The time based average power for GPRS

| Band | Channel No. | Frequency (MHz) | Time based average Power (dBm) | | | |
|----------|-------------|-----------------|--------------------------------|--------|--------------|--------------|
| | | | 1 slot | 2 slot | 3 slots | 4 slots |
| GSM 850 | 128 | 824.2 | 23.38 | 24.01 | 25.3 | 25.07 |
| | 190 | 836.6 | 23.66 | 24.74 | 25.53 | 25.25 |
| | 251 | 848.8 | 22.47 | 24.08 | 24.5 | 24.11 |
| PCS 1900 | 512 | 1850.2 | 20.03 | 22.79 | 23.4 | 23.45 |
| | 661 | 1880 | 19.64 | 21.96 | 21.96 | 22.4 |
| | 810 | 1909.8 | 20.36 | 22.54 | 22.88 | 23.74 |

Note:

1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

Bluetooth

| Mode | Channel No. | Channel frequency (MHz) | RF Output Power (dBm) |
|--------------|-------------|-------------------------|-----------------------|
| BDR(GFSK) | 0 | 2402 | -0.79 |
| | 39 | 2441 | 0 |
| | 78 | 2480 | 0.23 |
| EDR(4-DQPSK) | 0 | 2402 | -0.42 |
| | 39 | 2441 | 1.99 |
| | 78 | 2480 | 2.12 |
| EDR(8-DPSK) | 0 | 2402 | -0.02 |
| | 39 | 2441 | 2.42 |
| | 78 | 2480 | 2.6 |

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

| | |
|--------------------|------------|
| Temperature: | 23.2-23.6 |
| Relative Humidity: | 31% |
| ATM Pressure: | 1019 mbar |
| Test Date: | 2015-12-07 |

Testing was performed by Rocky Xiao

GSM 850:

| EUT Position | Frequency (MHz) | Test Mode | Power Drift (dB) | Max. Meas. Power (dBm) | Max. Rated Power (dBm) | 1g SAR (W/Kg) | | | |
|--------------------------|-----------------|-----------|------------------|------------------------|------------------------|---------------|-----------|------------|------|
| | | | | | | Scaled Factor | Meas. SAR | Scaled SAR | Plot |
| Left Head Cheek | 824.2 | GSM | / | / | / | / | / | / | / |
| | 836.6 | GSM | 0.19 | 32.62 | 33 | 1.091 | 0.393 | 0.429 | / |
| | 848.8 | GSM | / | / | / | / | / | / | / |
| Left Head Tilt | 824.2 | GSM | / | / | / | / | / | / | / |
| | 836.6 | GSM | 0.1 | 32.62 | 33 | 1.091 | 0.271 | 0.296 | / |
| | 848.8 | GSM | / | / | / | / | / | / | / |
| Right Head Cheek | 824.2 | GSM | -0.08 | 32.87 | 33 | 1.03 | 0.52 | 0.536 | 1# |
| | 836.6 | GSM | 0.16 | 32.62 | 33 | 1.091 | 0.474 | 0.517 | / |
| | 848.8 | GSM | 0.1 | 31.85 | 33 | 1.303 | 0.395 | 0.515 | / |
| Right Head Tilt | 824.2 | GSM | / | / | / | / | / | / | / |
| | 836.6 | GSM | 0.18 | 32.62 | 33 | 1.091 | 0.307 | 0.335 | / |
| | 848.8 | GSM | / | / | / | / | / | / | / |
| Body-Back-Headset (15mm) | 824.2 | GSM | / | / | / | / | / | / | / |
| | 836.6 | GSM | -0.04 | 32.62 | 33 | 1.091 | 0.619 | 0.675 | / |
| | 848.8 | GSM | / | / | / | / | / | / | / |
| Body-Back (15mm) | 824.2 | GPRS | 0.04 | 29.55 | 29.9 | 1.084 | 0.698 | 0.757 | / |
| | 836.6 | GPRS | -0.17 | 29.78 | 29.9 | 1.028 | 0.773 | 0.795 | 2# |
| | 848.8 | GPRS | 0.03 | 28.75 | 29.9 | 1.303 | 0.586 | 0.764 | / |

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
4. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 2DL+3UL is the worst case.

PCS 1900:

| EUT Position | Frequency (MHz) | Test Mode | Power Drift (dB) | Max. Meas. Power (dBm) | Max. Rated Power (dBm) | 1g SAR (W/Kg) | | | |
|--------------------------|-----------------|-----------|------------------|------------------------|------------------------|---------------|-----------|------------|------|
| | | | | | | Scaled Factor | Meas. SAR | Scaled SAR | Plot |
| Left Head Cheek | 1850.2 | GSM | 0 | 29.12 | 29.9 | 1.197 | 0.109 | 0.13 | / |
| | 1880 | GSM | 0.04 | 29.41 | 29.9 | 1.119 | 0.114 | 0.128 | / |
| | 1909.8 | GSM | 0.03 | 29.76 | 29.9 | 1.033 | 0.129 | 0.133 | 3# |
| Left Head Tilt | 1850.2 | GSM | / | / | / | / | / | / | / |
| | 1880 | GSM | 0.03 | 29.41 | 29.9 | 1.119 | 0.08 | 0.09 | / |
| | 1909.8 | GSM | / | / | / | / | / | / | / |
| Right Head Cheek | 1850.2 | GSM | -0.17 | 29.12 | 29.9 | 1.197 | / | / | / |
| | 1880 | GSM | 0.15 | 29.41 | 29.9 | 1.119 | 0.101 | 0.113 | / |
| | 1909.8 | GSM | / | / | / | / | / | / | / |
| Right Head Tilt | 1850.2 | GSM | / | / | / | / | / | / | / |
| | 1880 | GSM | 0.03 | 29.41 | 29.9 | 1.119 | 0.07 | 0.078 | / |
| | 1909.8 | GSM | / | / | / | / | / | / | / |
| Body-Back-Headset (15mm) | 1850.2 | GSM | / | / | / | / | / | / | / |
| | 1880 | GSM | 0.16 | 29.41 | 29.9 | 1.119 | 0.412 | 0.461 | / |
| | 1909.8 | GSM | / | / | / | / | / | / | / |
| Body-Back (15mm) | 1850.2 | GPRS | 0.05 | 26.45 | 26.8 | 1.084 | 0.635 | 0.688 | / |
| | 1880 | GPRS | 0.18 | 25.4 | 26.8 | 1.38 | 0.487 | 0.672 | / |
| | 1909.8 | GPRS | -0.13 | 26.74 | 26.8 | 1.014 | 0.696 | 0.706 | 4# |

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
4. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The Highest Measured SAR Configuration in Each Frequency Band

Head

| Frequency Band | Freq.(MHz) | EUT Position | Meas. SAR (W/kg) | | Largest to Smallest SAR Ratio |
|----------------|------------|--------------|------------------|----------|-------------------------------|
| | | | Original | Repeated | |
| / | / | / | / | / | / |

Body

| Frequency Band | Freq.(MHz) | EUT Position | Meas. SAR (W/kg) | | Largest to Smallest SAR Ratio |
|----------------|------------|--------------|------------------|----------|-------------------------------|
| | | | Original | Repeated | |
| / | / | / | / | / | / |

Note:

There is no original measured SAR ≥ 0.80 W/kg, repeated measurement is not required.

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

BT and GSM Antennas Location:



Simultaneous Transmission:

| Description of Simultaneous Transmit Capabilities | | | Antennas Distance (mm) |
|---|---------------|----------|------------------------|
| Transmitter Combination | Simultaneous? | Hotspot? | |
| GSM + Bluetooth | √ | × | 15 |

Standalone SAR test exclusion considerations

| Mode | Frequency (MHz) | Pavg (dBm) | Pavg (mW) | Distance (mm) | Calculated value | Threshold (1-g) | SAR Test Exclusion |
|-----------|-----------------|------------|-----------|---------------|------------------|-----------------|--------------------|
| Bluetooth | 2480 | 2.7 | 1.86 | 0 | 0.6 | 3 | YES |

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Standalone SAR estimation:

| Mode | Frequency (GHz) | Pavg (dBm) | Pavg (mW) | Distance (mm) | Estimated 1-g (W/kg) |
|---------|-----------------|------------|-----------|---------------|----------------------|
| BT Head | 2480 | 2.7 | 1.86 | 0 | 0.08 |
| BT Body | 2480 | 2.7 | 1.86 | 15 | 0.027 |

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}]$

W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

Simultaneous SAR test exclusion considerations:

| Mode(SAR1+SAR2) | Position | Reported SAR(W/kg) | | $\Sigma \text{SAR} < 1.6 \text{ W/kg}$ |
|--------------------|-------------------|--------------------|------|--|
| | | SAR1 | SAR2 | |
| GSM 850+Bluetooth | Left Head Cheek | 0.429 | 0.08 | 0.509 |
| | Left Head Tilt | 0.296 | 0.08 | 0.376 |
| | Right Head Cheek | 0.536 | 0.08 | 0.616 |
| | Right Head Tilt | 0.335 | 0.08 | 0.415 |
| | Body-Back-Headset | 0.675 | 0.04 | 0.702 |
| | Body-Back | 0.795 | 0.04 | 0.822 |
| PCS1900 +Bluetooth | Left Head Cheek | 0.133 | 0.08 | 0.213 |
| | Left Head Tilt | 0.09 | 0.08 | 0.17 |
| | Right Head Cheek | 0.113 | 0.08 | 0.193 |
| | Right Head Tilt | 0.078 | 0.08 | 0.158 |
| | Body-Back-Headset | 0.461 | 0.04 | 0.488 |
| | Body-Back | 0.706 | 0.04 | 0.733 |

Note:

SAR < 1.6 W/kg therefore simultaneous transmission SAR with Volume Scans is **not** required.

SAR Plots (Summary of the Highest SAR Values)

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)

Test Plot 1#:GSM 850 Right Cheek Low Channel

DUT: Mobile phone; Type: C2

Communication System:Generic GSM; Frequency: 824.2 MHz;Duty Cycle: 1:8

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 42.934$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.52, 9.52, 9.52); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Head/GSM 850 Right Cheek/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.574 W/kg

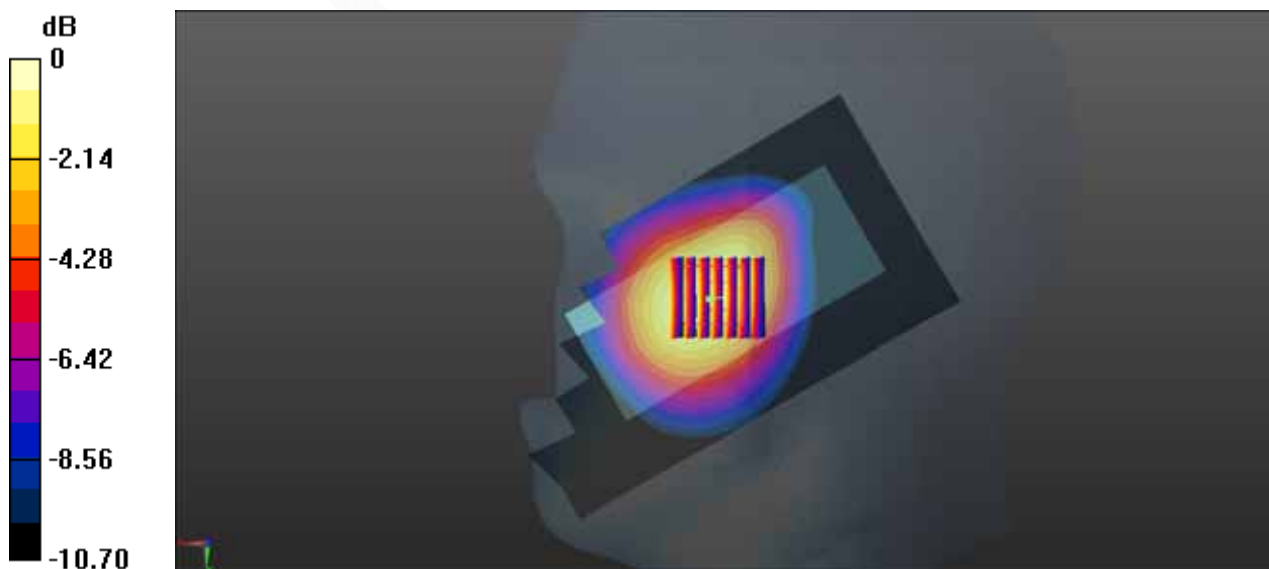
Head/GSM 850 Right Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.440 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.348 W/kg

Maximum value of SAR (measured) = 0.558 W/kg



0 dB = 0.558 W/kg = -2.53 dBW/kg

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**Test Plot 2#:GSM 850 Back Middle Channel****DUT: Mobile phone; Type: C2**

Communication System:Generic GPRS-3slots; Frequency: 836.6 MHz;Duty Cycle: 1:2.66

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.963$ S/m; $\epsilon_r = 55.135$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.17, 9.17, 9.17); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Body/GSM 850 Back/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.836 W/kg

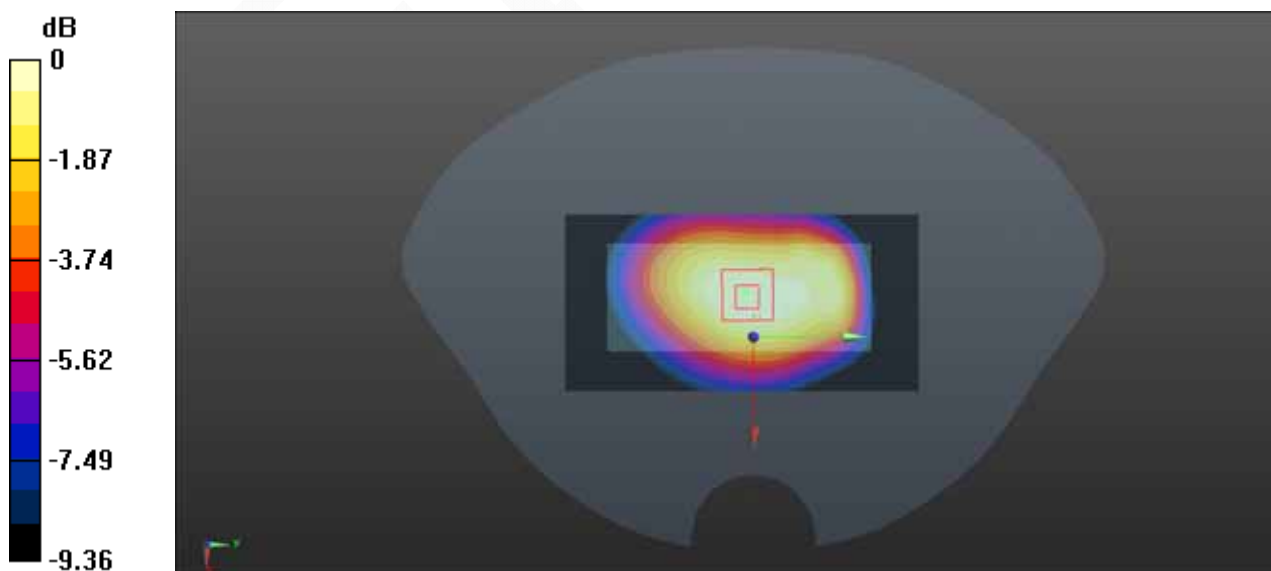
Body/GSM 850 Back/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.04 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.552 W/kg

Maximum value of SAR (measured) = 0.819 W/kg



0 dB = 0.819 W/kg = -0.87 dBW/kg

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**Test Plot 3#:PCS 1900 Left Cheek High Channel****DUT: Mobile phone; Type: C2**

Communication System:Generic GSM; Frequency: 1909.8 MHz;Duty Cycle: 1:8

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 39.609$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.56, 7.56, 7.56); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Head/PCS 1900 Left Cheek/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

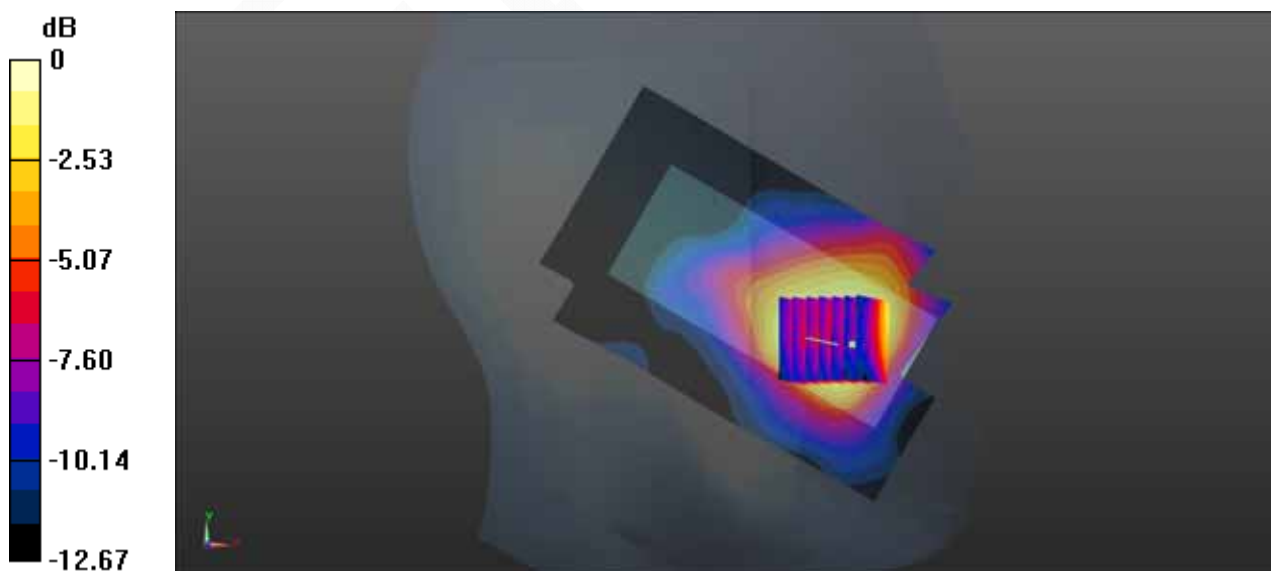
Head/PCS 1900 Left Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.885 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.139 W/kg = -8.57 dBW/kg

Test Laboratory: Bay Area Compliance Labs Corp.(Dongguan)**Test Plot 4#:PCS 1900 Back High Channel****DUT: Mobile phone; Type: C2**

Communication System:Generic GPRS-4 slots; Frequency: 1909.8 MHz;Duty Cycle: 1:2

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.492$ S/m; $\epsilon_r = 53.387$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.56, 7.56, 7.56); Calibrated: 2015/2/5;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2015/9/18
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Body/PCS 1900 Back/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.879 W/kg

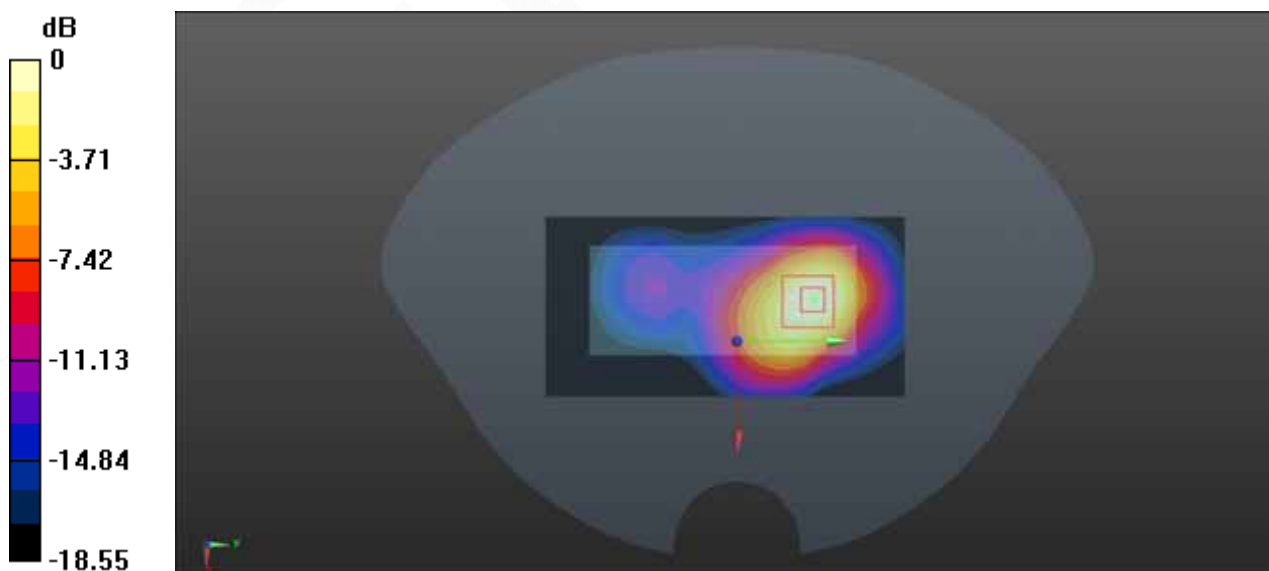
Body/PCS 1900 Back/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.055 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.359 W/kg

Maximum value of SAR (measured) = 0.782 W/kg



0 dB = 0.782 W/kg = -1.07 dBW/kg

APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

| Source of uncertainty | Tolerance/ uncertainty ± % | Probability distribution | Divisor | ci (1 g) | ci (10 g) | Standard uncertainty ± %, (1 g) | Standard uncertainty ± %, (10 g) |
|---|----------------------------------|-----------------------------|------------|-------------|--------------|---------------------------------------|--|
| Measurement system | | | | | | | |
| Probe calibration | 6.55 | N | 1 | 1 | 1 | 6.6 | 6.6 |
| Axial Isotropy | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 |
| Hemispherical Isotropy | 9.6 | R | $\sqrt{3}$ | 0 | 0 | 0.0 | 0.0 |
| Boundary effect | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Linearity | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 |
| Detection limits | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Readout electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 |
| Response time | 0.0 | R | $\sqrt{3}$ | 1 | 1 | 0.0 | 0.0 |
| Integration time | 0.0 | R | $\sqrt{3}$ | 1 | 1 | 0.0 | 0.0 |
| RF ambient conditions – noise | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| RF ambient conditions–reflections | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Probe positioner mech. Restrictions | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 |
| Probe positioning with respect to phantom shell | 6.7 | R | $\sqrt{3}$ | 1 | 1 | 3.9 | 3.9 |
| Post-processing | 2.0 | R | $\sqrt{3}$ | 1 | 1 | 1.2 | 1.2 |
| Test sample related | | | | | | | |
| Test sample positioning | 2.8 | N | 1 | 1 | 1 | 2.8 | 2.8 |
| Device holder uncertainty | 6.3 | N | 1 | 1 | 1 | 6.3 | 6.3 |
| Drift of output power | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 |
| Phantom and set-up | | | | | | | |
| Phantom uncertainty (shape and thickness tolerances) | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 |
| Liquid conductivity target) | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 |
| Liquid conductivity meas.) | 2.5 | N | 1 | 0.64 | 0.43 | 1.6 | 1.1 |
| Liquid permittivity target) | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 |
| Liquid permittivity meas.) | 2.5 | N | 1 | 0.6 | 0.49 | 1.5 | 1.2 |
| Combined standard uncertainty | | RSS | | | | 12.2 | 12.0 |
| Expanded uncertainty 95 % confidence interval) | | | | | | 24.3 | 23.9 |

Measurement uncertainty evaluation for IEC62209-2 SAR test

| Source of uncertainty | Tolerance/ uncertainty ± % | Probability distribution | Divisor | ci (1 g) | ci (10 g) | Standard uncertainty ± %, (1 g) | Standard uncertainty ± %, (10 g) |
|--|----------------------------------|-----------------------------|------------|-------------|--------------|---------------------------------------|--|
| Measurement system | | | | | | | |
| Probe calibration | 6.55 | N | 1 | 1 | 1 | 6.6 | 6.6 |
| Axial Isotropy | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 |
| Hemispherical Isotropy | 9.6 | R | $\sqrt{3}$ | 0 | 0 | 0.0 | 0.0 |
| Linearity | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 |
| Modulation Response | 0.0 | R | $\sqrt{3}$ | 1 | 1 | 0.0 | 0.0 |
| Detection limits | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Boundary effect | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Readout electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 |
| Response time | 0.0 | R | $\sqrt{3}$ | 1 | 1 | 0.0 | 0.0 |
| Integration time | 0.0 | R | $\sqrt{3}$ | 1 | 1 | 0.0 | 0.0 |
| RF ambient conditions – noise | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| RF ambient conditions–reflections | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 |
| Probe positioner mech. Restrictions | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 |
| Probe positioning with respect to phantom shell | 6.7 | R | $\sqrt{3}$ | 1 | 1 | 3.9 | 3.9 |
| Post-processing | 2.0 | R | $\sqrt{3}$ | 1 | 1 | 1.2 | 1.2 |
| Test sample related | | | | | | | |
| Device holder Uncertainty | 6.3 | N | 1 | 1 | 1 | 6.3 | 6.3 |
| Test sample positioning | 2.8 | N | 1 | 1 | 1 | 2.8 | 2.8 |
| Power scaling | 4.5 | R | $\sqrt{3}$ | 1 | 1 | 2.6 | 2.6 |
| Drift of output power | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 |
| Phantom and set-up | | | | | | | |
| Phantom uncertainty (shape and thickness tolerances) | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 |
| Algorithm for correcting SAR for deviations in permittivity and conductivity | 1.9 | N | 1 | 1 | 0.84 | 1.1 | 0.9 |
| Liquid conductivity (meas.) | 2.5 | N | 1 | 0.64 | 0.43 | 1.6 | 1.1 |
| Liquid permittivity (meas.) | 2.5 | N | 1 | 0.6 | 0.49 | 1.5 | 1.2 |
| Temp. unc. - Conductivity | 1.7 | R | $\sqrt{3}$ | 0.78 | 0.71 | 0.8 | 0.7 |
| Temp. unc. - Permittivity | 0.3 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.0 | 0.0 |
| Combined standard uncertainty | | RSS | | | | 12.2 | 12.1 |
| Expanded uncertainty 95 % confidence interval) | | | | | | 24.5 | 24.2 |

APPENDIX B EUT TEST POSITION PHOTOS

Liquid depth $\geq 15\text{cm}$



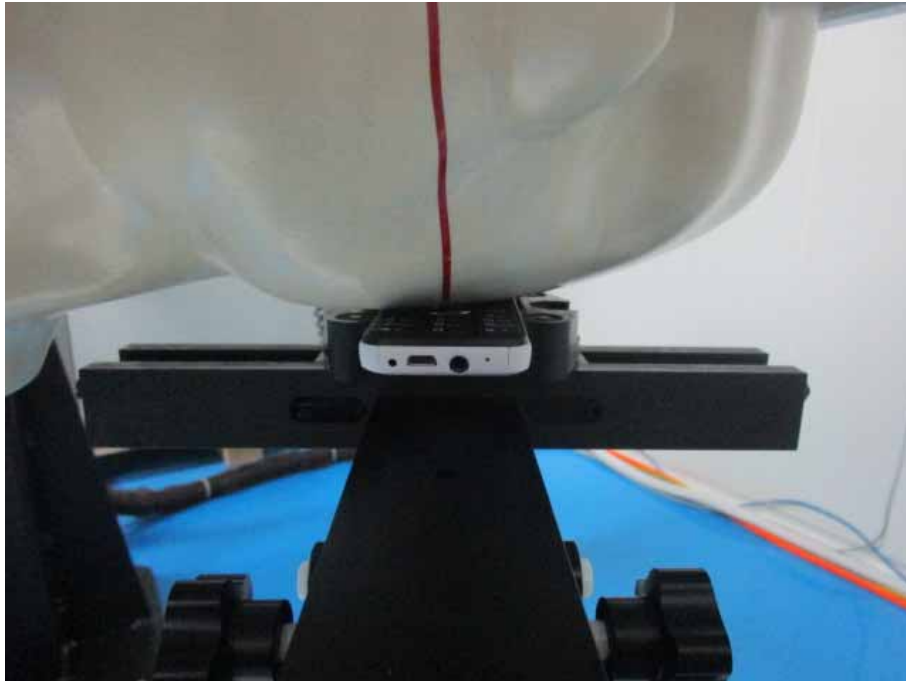
Body-worn Back Setup Photo



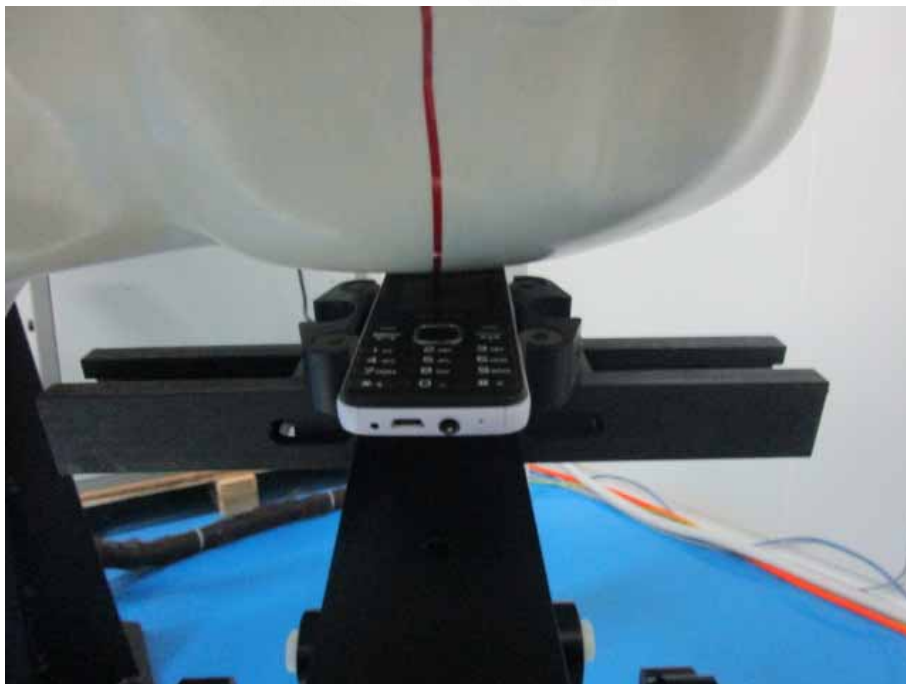
Body-worn Headset Setup Photo



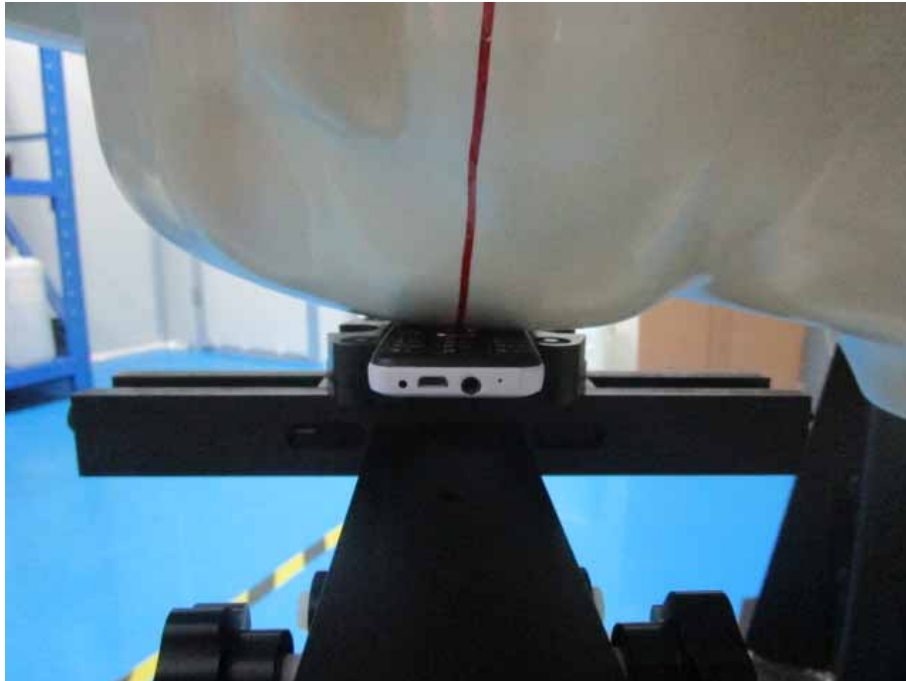
Left Head Touch Setup Photo



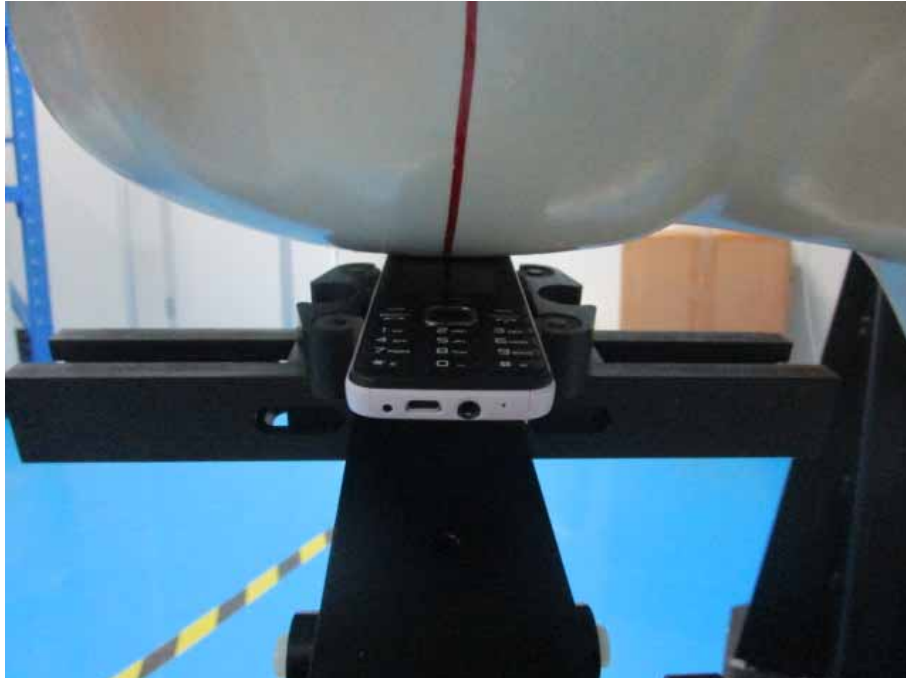
Left Head Tilt Setup Photo



Right Head Touch Setup Photo



Right Head Tilt Setup Photo



APPENDIX C EUT PHOTOS

EUT – Front View



EUT –Back View



EUT – Side View-1



EUT – Side View-2



EUT – Side View-3



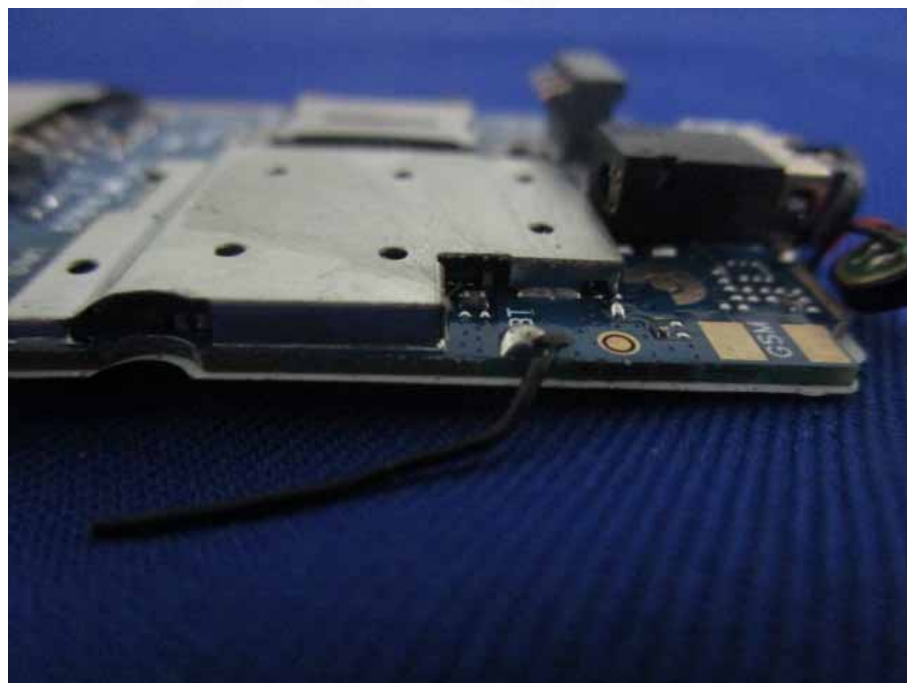
EUT – Side View-4



EUT – Cover off View



EUT – BT Ant



APPENDIX D CALIBRATION CERTIFICATES

Please Refer to the Attachment.

FINAL

DECLARATION LETTER

CONNECTED THINKING LLC

2025 NW 102 Ave, Suite # 104 Miami, FL 33172 USA

Contact Phone: (305) 810-4016 Contact Fax: (305) 810-4016

Product Similarity Declaration

Date: 2016-01-26

To Whom It May Concern,

We, CONNECTED THINKING LLC, hereby declare that our product Mobile phone, Model Number: C2, C3, C4 are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics. Model Number: C3, C4 are electrically identical with the Model Number: C2 that was certified by BACL. Their only difference is the model name.

The rest are the same.

Please contact me if you have any question.

Signature:

Mr.Cristian Wazani
General Manager



***** **END OF REPORT** *****