

SAR EVALUATION REPORT

For

TekConnec Inc

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FCC ID: 2AMVH-WI-208

Report Type: Product Type:
Original Report Smartphone

Report Number: RKS170707004-20

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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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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	RKS170707004-20	Original Report	2017-7-21	

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EUT DESCRIPTION

This report has been prepared on behalf of TekConnec Inc. and their product, FCC ID: 2AMVH-WI-208, Model: WI-208 or the EUT (Equipment under Test) as referred to in the rest of this report.

Note:

1. The device is capable of personal hotspot mode. WLAN Hotspot mode permits the device to share its cellular data connection with other 2.4 GHz WLAN enabled devices.

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2. All measurement and test data in this report was gathered from production sample serial number: 170703001(Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2017-07-03

Technical Specification

Product Type	Portable		
Exposure Category:	Population / Uncontrolled		
Antenna Type(s):	Internal Antenna		
Body-Worn Accessories:	Headset		
Face-Head Accessories:	None		
	CDMA2000 BC0		
Operation Mode :	WLAN		
Spermion 120me v	Bluetooth		
	BLE		
	CDMA2000 BC0 :842.7 MHz -848.31 MHz		
Frequency Band:	Wi-Fi(802.11b/g/n20): 2412MHz-2462 MHz		
Trequency Band.	Bluetooth: 2402 MHz-2480 MHz		
	BLE : 2402 MHz-2480 MHz		
	CDMA2000: 24.82 dBm		
Conducted RF Power:	WLAN(802.11b/g/n20): 8.94 dBm		
Conducted RF Fower:	Bluetooth3.0: 7.86 dBm		
	BLE: -5.69 dBm		
Dimensions (L*W*H):	146 mm (L) × 72 mm (W) × 8.4 mm (H)		
Power Source:	: 3.8 V _{DC} Rechargeable Battery		
Normal Operation:	Head, Hotspot and Body-worn		
Proximity sensor for SAR reduction	None		

Note:

The proximity sensor only used for control the screen and speaker.

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REFERENCE, STANDARDS, AND GUILDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For portable devices, the RF radiation exposure evaluation requirement was provided in part 2.1093. According to KDB447498 D01 "General RF Exposure Guidance", 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.

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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.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For portable devices, the limitation of exposure of the general public to electromagnetic fields was recommended on Council Recommendation 1999/519/EC. According to the Standard IEC62209-1/2, 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 portable devices.

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.

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SAR Limits

FCC Limit (1g Tissue)

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	SAR (W/kg)				
EXPOSURE LIMITS	(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 (10g Tissue)

	SAR (W/kg)					
EXPOSURE LIMITS	(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).

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FACILITIES

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on No.248 Chenghu Road, Kunshan, Jiangsu province, China.

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DASY4 SAR Evaluation Procedure

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. By default, the Minimum distance of probe sensors to surface is 4mm. This distance can be modified by the user, but cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.

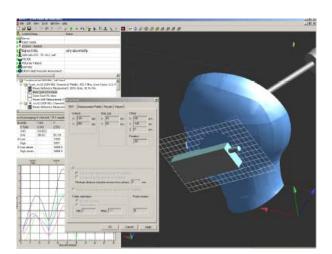
Area Scan

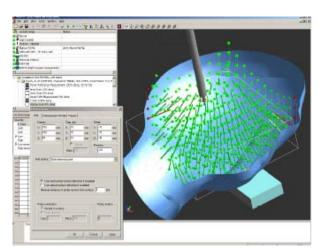
The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hot spot. The sophisticated interpolation routines implemented in DASY4 software can find the maximum locations even in relatively coarse grids.

The scanning area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the Area Scan's property sheet is brought-up, grid settings can be edited by a user.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2013, IEC 62209-1:2006 and IEC 62209-2:2010 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

After measurement is completed, all maxima and their coordinates are listed in the Results property page. The maximum selected in the list is highlighted in the 3-D view. For the secondary maxima returned from an Area Scan, the user can specify a lower limit (peak SAR value), in addition to the Find secondary maxima within x dB condition. Only the primary maximum and any secondary maxima within x dB from the primary maximum and above this limit will be measured.





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Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan measures 5 x 5 x 7 points within a cube whose base faces are centered around the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

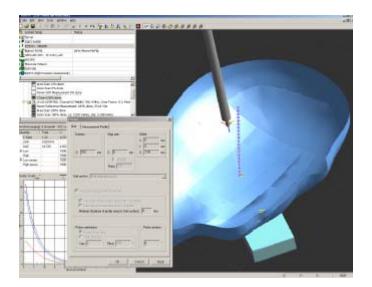
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Power drift measurement

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

Z-Scan

The Z Scan job measures points along a vertical straight line. The line runs along the Z axis of a one-dimensional grid. A user can anchor the grid to the section reference point, to any defined user point or to the current probe location. As with any other grids, the local Z axis of the anchor location establishes the Z axis of the grid.



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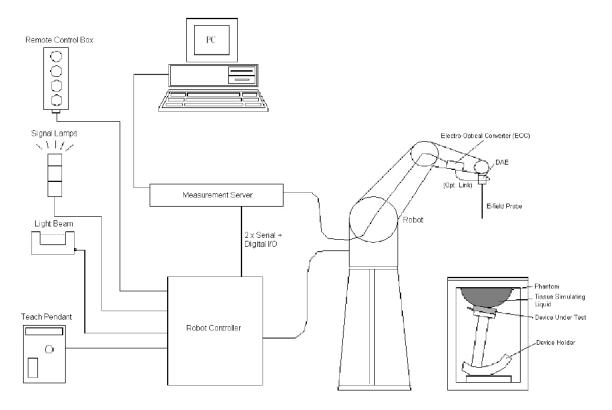
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY4 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY4 System Description

The DASY4 system for performing compliance tests consists of the following items:



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- 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 amplication, 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 profesional operating system and the DASY42 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.

DASY4 Measurement Server

The DASY4 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 DASY4 I/O board, which is directly connected to the PC/104 bus of the CPU board.



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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 preamplifer 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 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

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ET3DV6 E-Field Probes

Frequency	10 MHz to > 2.3 GHz Linearity: ± 0.2 dB (30 MHz to 2.3 GHz)
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.4 dB in TSL (rotation normal to probe axis)
Dynamic Range	$5 \mu W/g \text{ to} > 100 \text{ mW/g}$ Linearity: $\pm 0.2 \text{ dB}$ (noise: typically $< 1 \mu W/g$)
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 2.7 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 2.3 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY42 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 $100 \times 50 \times 85$ cm (L xWx H). The phantom table for the compact DASY systems based on the RX60L robot have the size of $100 \times 75 \times 91$ cm (L xWx 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 o_-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.

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Robots

The DASY4 system uses the high precision industrial robots RX90XL 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:

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- 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 synchron 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 10mm2 step integral, with 1mm 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 DASY4 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 1 g cube is 10mm, with the side length of the 10 g cube 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 5x5x8 (8mmx8mmx5mm) providing a volume of 32mm in the X & Y axis, and 35mm in the Z axis.

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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.

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Recommended Tissue Dielectric Parameters for Head and Body

Frequency	Frequency Head Tissue		Body	Tissue
(MHz)	εr	εr Ο (S/m)		O' (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

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EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

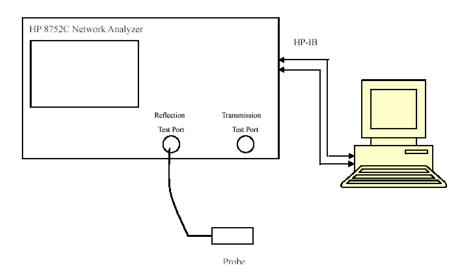
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Robot	RX90	5L79A1	N/A	N/A
DASY4 Test Software	DASY4.5	N/A	N/A	N/A
DASY4 Measurement Server	DASY 4.5.12	1180	N/A	N/A
Data Acquistion Electronics	DAE4	772	2016/10/25	2017/10/25
E-Field Probe	ET3DV6	1663	2016/11/17	2017/11/17
Dipole, 835 MHz	D835V2	445	2016/10/26	2017/10/26
Mounting Device	N/A	SD 000 H99 AA	N/A	N/A
Twin SAM	Twin SAM V5.0	1909	N/A	N/A
Simulated Tissue 835 MHz Head	TS-835-H	N/A	Each Time	/
Simulated Tissue 835 MHz Body	TS-835-B	N/A	Each Time	/
Network Analyzer	8753B	2625A00809	2016/10/06	2017/10/05
S-Parameter Test Set	85047A	3033A02428	2016/10/06	2017/10/05
Dielectric probe kit	85070B	US33020324	N/A	N/A
Signal Generator	SMBV100A	261558	2016/07/04	2018/07/04
Wideband Radio Communication Test	CMU200	110605	2016/11/25	2017/11/25
Power Meter	E4419B	MY41291878	2017/01/23	2018/01/23
Power Meter Sensor	E9301A	US39210953	2017/01/23	2018/01/23
Power Amplifier	10S1G4M1	18060	N/A	N/A
Directional Coupler	488Z	N/A	N/A	N/A
Attenuator	20dB, 100W	N/A	N/A	N/A
Attenuator	3dB, 150W	N/A	N/A	N/A

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SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency	Liquid		uid meter	Target	t Value	De		Tolerance
(MHz)	Туре	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
824.7	Simulated Tissue 835MHz Head	40.9	0.900	41.50	0.90	-1.45	0	±5
835	Simulated Tissue 835MHz Head	40.8	0.908	41.50	0.90	-1.69	0.89	±5
836.52	Simulated Tissue 835MHz Head	40.8	0.910	41.50	0.90	-1.69	1.11	±5
848.31	Simulated Tissue 835MHz Head	40.7	0.922	41.50	0.91	-1.93	2.44	±5

^{*}Liquid Verification was performed on 2017-7-11.

Frequency	requency Liquid		Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Туре	ε _r	O' (S/m)	$\mathbf{\epsilon}_{\mathrm{r}}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)	
824.7	Simulated Tissue 835MHz Body	56.05	0.993	55.20	0.97	1.54	2.37	±5	
835	Simulated Tissue 835MHz Body	56	1	55.20	0.97	1.45	3.09	±5	
836.52	Simulated Tissue 835MHz Body	56	1	55.20	0.97	1.45	3.09	±5	
848.31	Simulated Tissue 835MHz Body	55.88	1.015	55.20	0.97	1.23	4.64	±5	

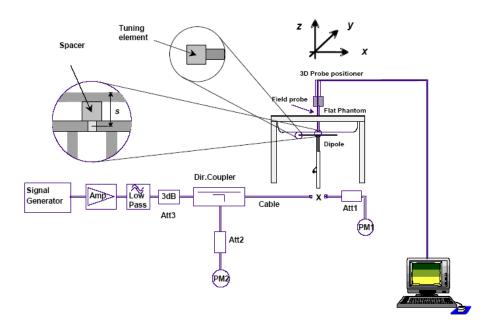
^{*}Liquid Verification was performed on 2017-7-11.

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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		sured SAR W/Kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2017-7-11	835	Head	1g	9.76	9.46	3.17	±10
2017-7-11	835	Body	1g	9.44	9.60	-1.67	±10

Note:

The power inputted to dipole is 0.25Watt; the SAR values are normalized to 1 Watt forward power by multiplying 4 times.

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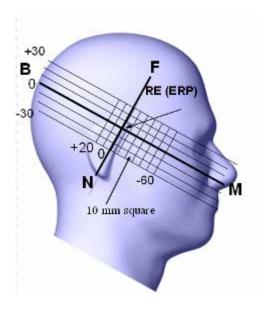
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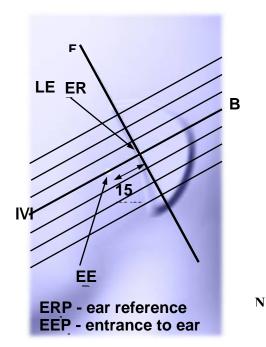
EUT TEST STRATEGY AND METHODOLOGY

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:





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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:

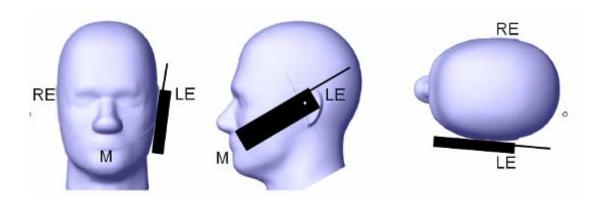
• When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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o (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

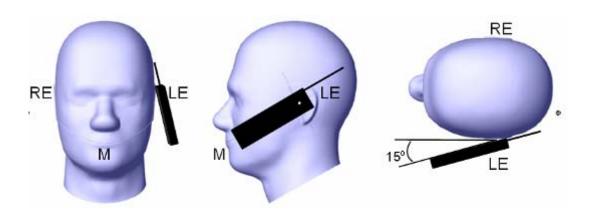
With the handset aligned in the "Cheek/Touch Position":

- 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°. 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.

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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, Tile/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.

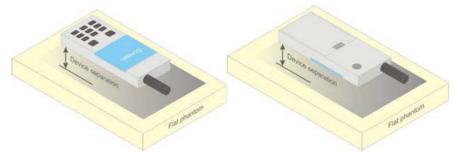


Figure 5 - Test positions for body-worn devices

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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.

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- 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 EUT and the horizontal grid spacing was 10 mm x 10 mm. 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 35 mm x 35 mm x 35 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

KDB 941225 D01 3G SAR Procedures v03r01

KDB 941225 D06 Hotspot Mode v02r01

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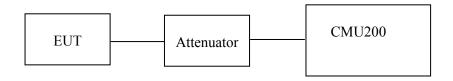
CONDUCTED OUTPUT POWER MEASUREMENT

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 CMU200 through sufficient attenuation.



CDMA

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Radio Configuration

The power measurement was configured by the Wireless Communication Test Set CMU200 for all Radio configurations.

CDMA 1x RTT

Maximum output power is verified on the high, middle and low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. Steps 3 and 4 are measured using Loopback Service Option SO55 with power control bits in "All Up" condition. Step 10 is measured using TDSO/SO32 with power control bits in the "Bits Hold" condition (i.e. alternative Up/Down Bits).

Table 4.4.5.2-1. Test Parameters for Maximum RF Output Power with a Single Traffic Code Channel, Spreading Rate 1

Parameter	Units	Value
Îor	dBm/1.23 MHz	-104
Pilot E _c	dΒ	-7
Traffic E _c	dВ	-7.4

 Code Channels, Spreading Rate 1

Parameter	Units	Value
Pilot E _c	dВ	-7
Traffic E _c	dВ	-7.4

EVDO

Maximum output power is verified on the high, middle and low channels according to procedures in section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rev. 0, section 4.3.4 of 3GPP2 C.S0033-A for Rev. A.

Maximum output power is measured for Rev. 0 and Rev. A in Subtype 0/1 and Subtype 2 Physical Layer configurations, respectively.

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Test Results:

CDMA BC0 1xRTT Mode

Dand	Channel Frequency		RF Output Power (dBm)					
Band	No.	(MHz)	RC1+SO55	RC3+SO55	RC3+SO32 (FCH)	RC3+SO32 (SCH)		
	1013	824.70	24.64	24.67	24.68	24.61		
BC0	384	836.52	24.62	24.81	24.71	24.64		
	777	848.31	24.68	24.69	24.66	24.62		

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CDMA BC0 EVDO Mode

Dand	Channel Frequency		RF Output Power (dBm)		
Band	No.	(MHz)	RTAP 153.6kbps Subtype 0	RETAP 4096bps Subtype 2	
	1013	824.70	24.60	24.69	
BC0	384	836.52	24.71	24.65	
	777	848.31	24.65	24.61	

Note:

- 1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction
- 2. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55
- 3. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode
- 4. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

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Bluetooth

Mode	Channel No.	Channel frequency (MHz)	Conducted Output Power (dBm)	Tune-up Limit (dBm)
	0	2402	6.55	7.5
BDR(GFSK)	39	2441	7.24	7.5
	78	2480	6.70	7.5
	0	2402	6.70	7.5
EDR(4-DQPSK)	39	2441	7.15	7.5
	78	2480	6.79	7.5
	0	2402	7.30	8.0
EDR-8DPSK	39	2441	7.86	8.0
	78	2480	7.36	8.0
	0	2402	-5.69	-5
BLE	19	2440	-6.61	-5
	39	2480	-6.21	-5

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WLAN

Mode	Channel No.	Channel frequency (MHz)	Conducted Average Power (dBm)	Tune-up Limit (dBm)
	1	2412	8.94	9.5
802.11b	6	2437	8.85	9.5
	11	2462	8.79	9.5
	1	2412	7.88	9
802.11g	6	2437	8.86	9
	11	2462	8.37	9
	1	2412	8.31	9
802.11n HT20	6	2437	8.44	9
	11	2462	8.29	9

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SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.4-23.8 °C
Relative Humidity:	57 %
ATM Pressure:	1015 mbar
Test Date:	2017-7-11

Testing was performed by Edison Hu

CDMA2000:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Measured 1g SAR (W/kg)	Avera ge Power (dBm)	Tune-Up Limit (dBm)	Tune-UP Scaling Factor	Reported 1g SAR (W/kg)
1	CDMA2000 BC0	1xRTT RC3 SO55	Right Cheek	0	384	0.310	24.81	25.00	1.045	0.324
2	CDMA2000 BC0	1xRTT RC3 SO55	Right Tilted	0	384	0.176	24.81	25.00	1.045	0.184
3	CDMA2000 BC0	1xRTT RC3 SO55	Left Cheek	0	384	0.261	24.81	25.00	1.045	0.273
4	CDMA2000 BC0	1xRTT RC3 SO55	Left Tilted	0	384	0.144	24.81	25.00	1.045	0.150
5	CDMA2000 BC0	1xRTT RC3 SO32	Body-worn	10	384	0.410	24.71	25.00	1.069	0.438
6	CDMA2000 BC0	RTAP 153.6Kbps	Front	10	384	0.372	24.71	25.00	1.069	0.398
7	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	384	0.483	24.71	25.00	1.069	0.516
8	CDMA2000 BC0	RTAP 153.6Kbps	Right Side	10	384	0.344	24.71	25.00	1.069	0.368
9	CDMA2000 BC0	RTAP 153.6Kbps	Left Side	10	384	0.244	24.71	25.00	1.069	0.261
10	CDMA2000 BC0	RTAP 153.6Kbps	Bottom Side	10	384	0.160	24.71	25.00	1.069	0.171

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Note:

- 1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
- 2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
- 3.Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode
- 4. Per KDB 941225 D01v03r01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for the secondary mode.

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SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Bluetooth & WLAN and CDMA Antennas Location:



Simultaneous Transmission:

Description of Simultaneo	Antonnos Distanco (mm)		
Transmitter Combination	Simultaneous?	Hotspot?	Antennas Distance (mm)
CDMA + Bluetooth	√	×	0
CDMA + WLAN		V	98

Standalone SAR test exclusion considerations

Mode	Position	Max tune (dBm)	e-up power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
Bluetooth	Head	8.0	6.31	0	1.99	3	Yes
Bluetooth	Body-Worn	8.0	6.31	10	0.99	3	Yes
WLAN	Head	9.5	8.91	0	2.80	3	Yes
WLAN	Body	9.5	8.91	10	1.40	3	Yes

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

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

- 1. f(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)	Distance (mm)	P _{avg} (dBm)	P _{avg} (mW)	Estimated 1-g (W/kg)
BT Head	2.48	0	8.00	6.31	0.265
BT Body	2.48	10	8.00	6.31	0.132
WLAN Head	2.462	0	9.5	8.91	0.373
WLAN Body	2.462	10	9.5	8.91	0.186

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:

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

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Simultaneous SAR test exclusion considerations:

Simultaneous and Hotspot SAR test exclusion considerations:

Mada(CAD1+CAD2)	Dag!4!a	Reported S	Reported SAR(W/kg)		
Mode(SAR1+SAR2)	Position	SAR1	SAR2	1.6W/kg	
	Head Left Cheek	0.273	0.265	0.538	
	Head Left Tilt	0.150	0.265	0.415	
CDMA2000+Bluetooth	Head Right Cheek	0.324	0.265	0.589	
	Head Right Tilt	0.184	0.265	0.449	
	Body Worn Back	0.438	0.132	0.570	

Mode(SAR1+SAR2)	Position	Reported S	ΣSAR < 1.6W/kg	
		SAR1	SAR2	1.0 W/Kg
	Head Left Cheek	0.273	0.373	0.646
	Head Left Tilt	0.150	0.373	0.523
CDMA2000+ WLAN	Head Right Cheek	0.324	0.373	0.697
	Head Right Tilt	0.184	0.373	0.557
	Body Worn Back	0.438	0.186	0.624
	Hotspot-Front	0.398	0.186	0.584
	Hotspot-Back	0.516	0.186	0.702
CDMA2000 + WLAN	Hotspot-Left	0.261	/	0.261
(Hotspot)	Hotspot-Right	0.368	0.186	0.554
	Hotspot-Bottom	0.171	/	0.171
	Hotspot-Top	/	0.186	0.186

Note:

1. Hotspot mode SAR is only required for the edges within 25mm from the transmitting antenna located. 2. Hotspot Mode is not feasible during voice calls.

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APPENDIX A MEASUREMENT UNCERTAINTY

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

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DASY4 Uncertainty Budget According to IEC 62209-1/2010 (0.3 - 3 GHz range)											
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff			
Measurement System											
Probe Calibration	6.30	N	1	1	1	6.3	6.3	∞			
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9	∞			
Hemispherical Isotropy	0.00	R	1.732	0.7	0.7	0.0	0.0	∞			
Boundary Effects	1.00	R	1.732	1	1	0.6	0.6	∞			
Linearity	4.70	R	1.732	1	1	2.7	2.7	∞			
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6	∞			
Readout Electronics	1.00	N	1	1	1	1.0	1.0	∞			
Response Time	0.80	R	1.732	1	1	0.5	0.5	∞			
Integration Time	2.60	R	1.732	1	1	1.5	1.5	8			
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7	8			
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7	8			
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2	8			
Probe Positioning	2.90	R	1.732	1	1	1.7	1.7	∞			
Post-Processing	1.00	R	1.732	1	1	0.6	0.6	∞			
Test Sample Related											
Device Positioning	2.90	N	1	1	1	2.9	2.9	35			
Device Holder	3.60	N	1	1	1	3.6	3.6	12			
Power Drift	5.00	R	1.732	1	1	2.9	2.9	∞			
Phantom and Setup											
Phantom Uncertainty	4.00	R	1.732	1	1	2.3	2.3	∞			
Liquid Conductivity (target)	5.00	R		0.7	0.5	2.0	1.4	∞			
Liquid Conductivity (mea.)	4.30	R	1.732	0.7	0.5	1.7	1.2	∞			
Liquid Permittivity (target)	5.00	R	1.732	0.6	0.5	1.7	1.4	∞			
Liquid Permittivity (mea.)	4.30	R	1.732	0.6	0.5	1.5	1.2	∞			
Combined Std. Uncertainty							10.3%	697			
Coverage Factor for 95 %							K=2				
Expanded STD Uncertainty							20.6%				

Note: Worst-Case uncertainty budget for DASY4 assessed according to IEC 62209-1 .The budget is valid for the frequency range 300MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller.

Table 2 Uncertainty Budget for frequency range 300 MHz to 3 GHz

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DASY4 Uncertainty Budget According to IEC 62209-1/2010 (3 - 6 GHz range)											
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff			
Measurement System							•				
Probe Calibration	6.89	N	1	1	1	6.9	6.9	∞			
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞			
Hemispherical Isotropy	0.0	R	1.732	0.7	0.7	0.0	0.0	∞			
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	∞			
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞			
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞			
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞			
Readout Electronics	1.0	N	1	1	1	1.0	1.0	∞			
Response Time	0.8	R	1.732	1	1	0.5	0.5	∞			
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞			
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞			
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞			
Probe Positioner	0.8	R	1.732	1	1	0.5	0.5	∞			
Probe Positioning	5.7	R	1	1	1	5.7	5.7	∞			
Max.SAR Eval	4.0	R	1.732	1	1	2.3	2.3	∞			
Test Sample Related											
Device Positioning	2.9	N	1	1	1	2.9	2.9	145			
Device Holder	3.6	N	1	1	1	3.6	3.6	5			
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞			
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞			
Phantom and Setup											
Phantom Uncertainty	4.0	R	1.732	1	1	2.3	2.3	∞			
SAR correction	0.0	N	1	1	0.84	0.0	0.0	∞			
Liquid Conductivity (mea.)	2.5	N	1	0.64	0.43	1.6	1.1	∞			
Liquid Permittivity (mea.)	2.5	N	1	0.6	0.49	1.5	1.2	∞			
Liquid Conductivity -Temp.unc	5.0	R	1.732	0.64	0.43	1.8	1.2	∞			
Liquid Permittivity -Temp.unc	5.0	R	1.732	0.64	0.43	1.8	1.2	∞			
Combined Std. Uncertainty	12.5%	12.3%	1391								
Coverage Factor for 95 %	K=2	K=2									
Expanded STD Uncertainty	25.0%	24.6%									

Note: Worst-Case uncertainty budget for DASY4 assessed according to IEC 62209-1 /IEEE1528.The budget is valid for the frequency range 3 - 6 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller.

Table 4 Uncertainty Budget for frequency range 3 GHz to 6 GHz

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APPENDIX B EUT TEST POSITION PHOTOS

Liquid depth≥15cm



Head Right Cheek Setup Photo



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Head Right Tilted Setup Photo



Head Left Cheek Setup Photo



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Head Left Tilted Setup Photo



Body Hotspot Front Setup Photo



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Body Hotspot Back Setup Photo



Body Hotspot Left Side Setup Photo



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Body Hotspot Right Side Setup Photo



Body Hotspot Bottom Side Setup Photo



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APPENDIX C EUT PHOTOS

EUT-Front View



EUT-Back View



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Appendixes

Refer to separated files for the following appendixes.

APPENDIX D SAR PLOTS OF SYSTEM VERIFICATION. APPENDIX E SAR PLOTS OF SAR MEASUREMENT. APPENDIX F DASY CALIBRATION CERTIFICATES.

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

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