

SAR EVALUATION REPORT

For

HUNG WAI PRODUCTS LIMITED

Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong

FCC ID: 2AB6Z-BZT-T102

Report Type: Product Type:

Original Report Buzztime 7 inch Tablet - T102

Report Number: RDG170503801-20A

Report Date: 2017-06-11

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	A	ttestation of Test Results					
	EUT Description	Buzztime 7 inch Tablet - T102					
	Model Number	BZT-T102					
EUT Information	FCC ID	2AB6Z-BZT-T102					
	Serial Number	17050380120					
	Test Date	2017-05-25					
MOI	DE	Max. SAR Level(s) Reported(W/kg)	Limit (W/kg)				
WLAN 2.4G	1g Body SAR	1.44	1.6				
Applicable Standards	Electromagnetic Filed ANSI / IEEE C95.3 IEEE Recommended Electromagnetic Field GHz. FCC 47 CFR part 2 Radiofrequency radia IEEE1528:2013 IEEE Recommended Absorption Rate (SA Measurement Technic IEC 62209-2:2010 Human exposure to recommunication devict to determine the specclose proximity to the KDB procedures KDB 447498 D01 G6 KDB 865664 D01 SA KDB 865664 D02 RI	Infety Levels with Respect to Human Exposure to Radids, 3 kHz to 300 GHz. 2002 Practice for Measurements and Computations of Radids With Respect to Human Exposure to SuchFields, 10 1093 Ition exposure evaluation: portable devices Practice for Determining the Peak Spatial-Average SR) in the Human Head from Wireless Communication	lio Frequency 00 kHz—300 Specific ns Devices: ated wireless Part 2: Procedure on devices used in				

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 FCC 47 CFR part 2.1093 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.

SAR Evaluation Report 2 of 35

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	4
EUT DESCRIPTION	5
TECHNICAL SPECIFICATION	5
REFERENCE, STANDARDS, AND GUILDELINES	6
SAR LIMITS	7
DESCRIPTION OF TEST SYSTEM	9
EQUIPMENT LIST AND CALIBRATION	14
EQUIPMENTS LIST & CALIBRATION INFORMATION	14
SAR MEASUREMENT SYSTEM VERIFICATION	15
LIQUID VERIFICATION	
System Accuracy Verification	
SAR SYSTEM VALIDATION DATA	
EUT TEST STRATEGY AND METHODOLOGY	
TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR	
EAR/TILT POSITION	
TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS	
TEST DISTANCE FOR SAR EVALUATION	
SAR EVALUATION PROCEDURE	
TEST METHODOLOGY	
CONDUCTED OUTPUT POWER MEASUREMENT	
PROVISION APPLICABLE	
MAXIMUM TARGET OUTPUT POWER TEST RESULTS:	
STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	
ANTENNA LOCATION	
ANTENNA DISTANCE TO EDGE	
SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT	
SAR TEST DATA	27
SAR MEASUREMENT VARIABILITY	29
SAR PLOTS	30
APPENDIX A MEASUREMENT UNCERTAINTY	31
APPENDIX B EUT TEST POSITION PHOTOS	33
LIQUID DEPTH ≥ 15CM	33
BODY BACK SETUP PHOTO(0MM)	
BODY RIGHT SETUP PHOTO(0MM)	
BODY BOTTOM SETUP PHOTO(0MM)	
APPENDIX C CALIBRATION CERTIFICATES	35

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	RDG170503801-20A	Original Report	2017-06-11

SAR Evaluation Report 4 of 35

EUT DESCRIPTION

This report has been prepared on behalf of *HUNG WAI PRODUCTS LIMITED* and their product *Buzztime 7 inch Tablet - T102*, Tested Model: *BZT-T102*, FCC ID: *2AB6Z-BZT-T102* or the EUT (Equipment under Test) as referred to in the rest of this report.

*All measurement and test data in this report was gathered from production sample serial number: 17050380120 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2017-05-03.

Technical Specification

Device type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Operation Mode :	WLAN and Bluetooth
Frequency Band:	WLAN: 2412MHz-2462 MHz
Frequency Band.	Bluetooth: 2402MHz-2480MHz
Conducted RF Power:	WLAN: 10.69 dBm
Conducted RF Power:	Bluetooth(BDR/EDR):8.41 dBm
Dimensions (L*W*H): 18.8 cm (L) \times 11.1 cm (W) \times 1.0 cm (H)	
Power Source: 3.7 VDC Rechargeable Battery	
Normal Operation:	Body Supported and Hand-held

SAR Evaluation Report 5 of 35

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 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 Evaluation Report 6 of 35

SAR Limits

FCC Limit

	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

	SAR (W/kg)				
	(General Population /	(Occupational /			
EXPOSURE LIMITS	Uncontrolled Exposure	Controlled Exposure			
	Environment)	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 1.6 W/kg (FCC) & 2 W/kg (CE) applied to the EUT.

SAR Evaluation Report 7 of 35

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.

SAR Evaluation Report 8 of 35

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:



SAR Evaluation Report 9 of 35

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

SAR Evaluation Report 10 of 35

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: \pm 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.



SAR Evaluation Report

Triple Flat Phantom

The SAM twin phantom is a fiberglass shell phantom with $2mm(\pm 0.2 \text{ mm})$ shell thickness. The phantom shell is compatible with SPEAG tissue simulating liquids (sugar and oil based). Use of other liquids may render the phantom warranty void (see note or consult SPEAG support).

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.

SAR Evaluation Report 12 of 35

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 x7 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	Head T	Гissue	Body Tissue		
(MHz)	εr	O (S/m)	εr	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	

SAR Evaluation Report 13 of 35

EQUIPMENT LIST AND CALIBRATION

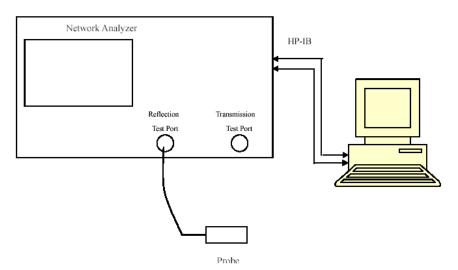
Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
Robot	RX90	D03688	N/A	N/A
DASY5 Test Software	DASY52.8	N/A	N/A	N/A
DASY5 Measurement Server	DASY5 4.5.12	1567	N/A	N/A
Data Acquisition Electronics	DAE3	379	2016/10/04	2017/10/03
E-Field Probe	EX3DV4	7441	2016/11/15	2017/11/14
Dipole, 2450 MHz	D2450V2	970	2015/07/08	2018/07/07
Mounting Device	MD4HHTV5	BJPCTC0152	N/A	N/A
Triple Flat Phantom 5.1C	QD 000 P51 CA	1130	N/A	N/A
Simulated Tissue 2450 MHz Body	TS-2450-B	1610245002	Each Time	/
Network Analyzer	8753B	2625A00809	2016/10/6	2017/10/5
S-Parameter Test Set	85047A	3033A02428	2016/10/6	2017/10/5
Dielectric probe kit	85070B	US33020324	2016/6/13	2017/6/12
Signal Generator	SMBV100A	261558	2016/7/4	2017/7/4
Power Meter	E4419B	MY41291878	2017/1/7	2018/1/6
Power Meter Sensor	8481A	2702A68993	2016/5/30	2017/5/29
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

SAR Evaluation Report 14 of 35

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency Liquid Toma		Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta\epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
2412	Simulated Tissue 2450 MHz Body	53.293	1.968	52.75	1.91	1.03	3.04	±5
2422	Simulated Tissue 2450 MHz Body	53.451	1.962	52.75	1.91	1.33	2.72	±5
2437	Simulated Tissue 2450 MHz Body	55.076	1.95	52.72	1.94	4.47	0.52	±5
2450	Simulated Tissue 2450 MHz Body	54.9	1.937	52.7	1.95	4.17	-0.67	±5
2452	Simulated Tissue 2450 MHz Body	54.82	1.946	52.68	1.95	4.06	-0.21	±5
2462	Simulated Tissue 2450 MHz Body	54.002	1.9	52.68	1.97	2.51	-3.55	±5

^{*}Liquid Verification above was performed on 2017/05/25.

SAR Evaluation Report 15 of 35

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 (W/kg)		Target Value(W/kg)	Delta (%)	Tolerance (%)
2017/05/25	2450	Body	1g	50.2	51.3	-2.14	±10

SAR Evaluation Report 16 of 35

SAR SYSTEM VALIDATION DATA

System Performance 2450 MHz Body

DUT: D2450V2; Type: 2450 MHz; Serial: 970

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.937 \text{ S/m}$; $\varepsilon_r = 54.90$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Center Section

DASY5 Configuration:

• Probe: EX3DV4 - SN7441; ConvF(7.67, 7.67, 7.67); Calibrated: 2016/11/15;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn379; Calibrated: 2016/10/4

• Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130

Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 70.4 W/kg

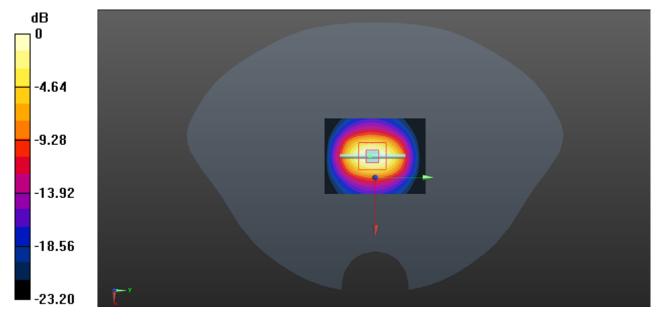
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 173.8 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 109 W/kg

SAR(1 g) = 50.2 W/kg; SAR(10 g) = 23.9 W/kg

Maximum value of SAR (measured) = 68.6 W/kg



0 dB = 68.6 W/kg = 18.36 dBW/kg

SAR Evaluation Report 17 of 35

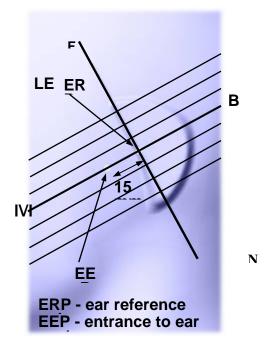
EUT TEST STRATEGY AND METHODOLOGY

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:





SAR Evaluation Report 18 of 35

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.

SAR Evaluation Report 19 of 35

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

Test Distance for SAR Evaluation

For this case the DUT(Device Under Test) is set directly against the phantom, the test distance is 0mm.

SAR Evaluation Report 20 of 35

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 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r02

KDB 248227 D01 802 11 Wi-Fi SAR v02r02

SAR Evaluation Report 21 of 35

CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

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

Maximum Target Output Power

Max Target Power(dBm)						
Mada/Daud						
Mode/Band	High					
WLAN(802.11b)	10.7	10.7	10.7			
WLAN(802.11g)	10.8	10.8	10.8			
WLAN(802.11n HT20)	10.8	10.8	10.8			
WLAN(802.11n HT40)	10.7 10.7 10.7					
Bluetooth BDR/EDR	8.5	8.5	8.5			

SAR Evaluation Report 22 of 35

Test Results:

WLAN:

Mode	Channel frequency	RF Output Power		
Wiouc	(MHz)	(dBm)		
	2412	10.49		
802.11b	2437	10.42		
	2462	10.56		
	2412	10.34		
802.11g	2437	10.44		
	2462	10.69		
002.11	2412	10.65		
802.11n HT20	2437	10.62		
11120	2462	10.58		
002.11	2422	10.57		
802.11n HT40	2437	10.15		
11140	2452	10.31		

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)		
	2402	7.30		
BDR(GFSK)	2441	7.03		
	2480	6.29		
	2402	8.41		
EDR(4-DQPSK)	2441	8.16		
	2480	7.41		
	2402	8.38		
EDR(8-DPSK)	2441	8.18		
, ,	2480	7.70		

Note:

- 1. The output power was tested under data rate 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for802.11n HT20 and 802.11n HT40.
- 2. The WLAN and BT cannot transmit simultaneously.

SAR Evaluation Report 23 of 35

Standalone SAR test exclusion considerations

Antenna Location



Antenna Distance To Edge

Antenna Distance To Edge(mm)									
Antenna Left Right Top Back Bottom									
WLAN& Bluetooth	84	< 5	156	< 5	< 5				

SAR Evaluation Report 24 of 35

Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold	SAR Test Exclusion
Bluetooth	2480	8.5	7.08	0	2.2	3	YES

NOTE:

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]

 $[\sqrt{f(GHz)}] \le 3.0$ 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 (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)	
Bluetooth Head	2480	8.5	7.08	0	0.3	

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)] $\cdot [\sqrt{f(GHz)/x}]$

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

SAR test exclusion for the EUT edge considerations Result

Mode	Left	Right	Тор	Back	Bottom	
WLAN	Judge	Required	Judge	Required	Required	

Note:

Required: The distance is less than 5mm, the SAR test is required as Standalone SAR test exclusion considerations table.

Judge: Please refer the below table for detail.

SAR Evaluation Report 25 of 35

SAR test exclusion for the EUT edge considerations detail:

Distance < 50mm

Mode	Edge	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculate d value	Threshold (10-g)	SAR Test required
/	/	/	/	/	/	/	/	/

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ 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.

Distance > 50mm

Mode	Edge	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Test exclusion Threshold (mW)	SAR Test required
WLAN	Left	2462	10.8	12.0	84	435.60	No
WLAN	Тор	2462	10.8	12.0	156	1155.60	No

At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following:

- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and $\leq 6 \text{ GHz}$

SAR Evaluation Report 26 of 35

SAR Test Data

Environmental Conditions

Temperature:	22.3-23.6 ℃
Relative Humidity:	51 %
ATM Pressure:	1002 mbar
Test Date:	2017/05/25

Testing was performed by Edison Hu, Zack Huang, Peter Lee.

WLAN Mode B:

EUT	Frequency	Test	Power	Max. Meas.	Max. Rated		1g SAR (W/kg)	
Position	(MHz)	Mode Drift (dB)		Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2412	802.11 b	0.09	10.49	10.7	1.05	1.19	1.25	1#
	2437	802.11 b	0.02	10.42	10.7	1.067	1.35	1.44	2#
	2462	802.11 b	0.19	10.56	10.7	1.033	1.26	1.30	3#
	2412	802.11 b	/	/	/	/	/	/	/
Body Right (0mm)	2437	802.11 b	0.04	10.42	10.7	1.067	0.108	0.12	4#
(**************************************	2462	802.11 b	/	/	/	/	/	/	/
	2412	802.11 b	/	/	/	/	/	/	/
Body Bottom (0mm)	2437	802.11 b	0.11	10.42	10.7	1.067	0.201	0.21	5#
(OIIIII)	2462	802.11 b	/	/	/	/	/	/	/

WLAN Mode G:

EUT	Frequency	Test	Power	Max. Meas.	Max. Rated		1g SAR (W/kg)	
Position	(MHz)	Mode Drift (dB)		Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2412	802.11 g	0.07	10.34	10.8	1.112	1.26	1.40	6#
	2437	802.11 g	0.11	10.44	10.8	1.086	1.28	1.39	7#
	2462	802.11 g	-0.14	10.69	10.8	1.026	1.19	1.22	8#
	2412	802.11 g	/	/	/	/	/	/	/
Body Right (0mm)	2437	802.11 g	0.04	10.44	10.8	1.086	0.071	0.08	9#
(**************************************	2462	802.11 g	/	/	/	/	/	/	/
	2412	802.11 g	/	/	/	/	/	/	/
Body Bottom (0mm)	2437	802.11 g	0.14	10.44	10.8	1.086	0.20	0.22	10#
(1 2223)	2462	802.11 g	/	/	/	/	/	/	/

SAR Evaluation Report 27 of 35

WLAN Mode N20:

EUT	Frequency		Power	Max. Meas.	Max. Rated		1g SAR (W/kg)	
Position	(MHz)	Test Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2412	802.11 n20	0.17	10.65	10.8	1.035	1.27	1.31	11#
	2437	802.11 n20	0.10	10.62	10.8	1.042	1.29	1.34	12#
	2462	802.11 n20	0.07	10.58	10.8	1.052	1.26	1.33	13#
	2412	802.11 n20	/	/	/	/	/	/	/
Body Right (0mm)	2437	802.11 n20	0.16	10.62	10.8	1.042	0.156	0.16	14#
(0.1.1.1)	2462	802.11 n20	/	/	/	/	/	/	/
	2412	802.11 n20	/	/	/	/	/	/	/
Body Bottom (0mm)	2437	802.11 n20	-0.01	10.62	10.8	1.042	0.228	0.24	15#
(chini)	2462	802.11 n20	/	/	/	/	/	/	/

WLAN Mode N40:

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
Body Back (0mm)	2422	802.11 n40	0.14	10.57	10.7	1.03	1.33	1.37	16#
	2437	802.11 n40	-0.18	10.15	10.7	1.135	1.27	1.44	17#
	2452	802.11 n40	-0.02	10.31	10.7	1.094	1.30	1.42	18#
Body Right (0mm)	2422	802.11 n40	/	/	/	/	/	/	/
	2437	802.11 n40	-0.01	10.15	10.7	1.135	0.096	0.11	19#
	2452	802.11 n40	/	/	/	/	/	/	/
Body Bottom (0mm)	2422	802.11 n40	/	/	/	/	/	/	/
	2437	802.11 n40	-0.16	10.15	10.7	1.135	0.206	0.23	20#
	2452	802.11 n40	/	/	/	/	/	/	/

Note:

- 1. When the 1-g SAR is \leq 0.8W/kg, testing for other channels are optional.
- 2. When SAR 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.
- 3. KDB 447498-The test separation distances required for a device to demonstrate SAR compliance must be sufficiently conservative to support the operational separation distances required by the device and its antennas and radiating structures. The test separation distance 0mm is considered sufficiently conservative.

SAR Evaluation Report 28 of 35

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.
- 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

Body

F	E (MII)		Meas. SA	Largest to	
Frequency Band	Freq.(MHz)	EUT Position	Original	Repeated	Smallest SAR Ratio
(2400 MHz-2480 MHz) WLAN Mode B	2437	Body Back	1.35	1.32	1.03

Note:

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements..

SAR Evaluation Report 29 of 35

Bay Area Compliance Laboratories Corp. (Kunshan)	Report No: RDG1/0503801-202
SAR Plots	
Please Refer to the Attachment.	

SAR Evaluation Report 30 of 35

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	√3	1	1	2.7	2.7		
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0		
Boundary effect	1.0	R	√3	1	1	0.6	0.6		
Linearity	4.7	R	√3	1	1	2.7	2.7		
Detection limits	1.0	R	√3	1	1	0.6	0.6		
Readout electronics	0.3	N	1	1	1	0.3	0.3		
Response time	0.0	R	√3	1	1	0.0	0.0		
Integration time	0.0	R	√3	1	1	0.0	0.0		
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6		
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6		
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5		
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9		
Post-processing	2.0	R	√3	1	1	1.2	1.2		
		Test sample	erelated						
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	√3	1	1	2.9	2.9		
Phantom and set-up									
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3		
Liquid conductivity target)	5.0	R	√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	√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		

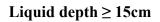
SAR Evaluation Report 31 of 35

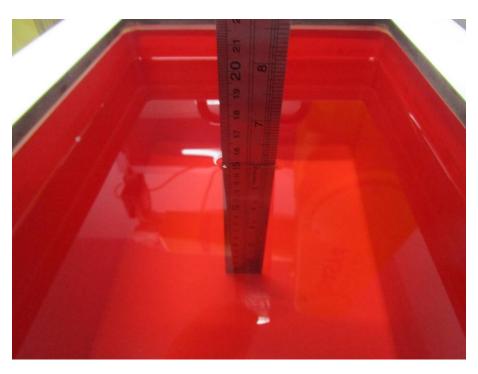
Measurement uncertainty evaluation for IEC62209-2 SAR test

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	√3	1	1	2.7	2.7		
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0		
Linearity	4.7	R	√3	1	1	2.7	2.7		
Modulation Response	0.0	R	√3	1	1	0.0	0.0		
Detection limits	1.0	R	√3	1	1	0.6	0.6		
Boundary effect	1.0	R	√3	1	1	0.6	0.6		
Readout electronics	0.3	N	1	1	1	0.3	0.3		
Response time	0.0	R	√3	1	1	0.0	0.0		
Integration time	0.0	R	√3	1	1	0.0	0.0		
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6		
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6		
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5		
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9		
Post-processing	2.0	R	√3	1	1	1.2	1.2		
		Test sample	e 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	√3	1	1	2.6	2.6		
Drift of output power	5.0	R	√3	1	1	2.9	2.9		
Phantom and set-up									
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√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	√3	0.78	0.71	0.8	0.7		
Temp. unc Permittivity	0.3	R	√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		

SAR Evaluation Report 32 of 35

APPENDIX B EUT TEST POSITION PHOTOS





Body Back Setup Photo(0mm)



SAR Evaluation Report 33 of 35

Body Right Setup Photo(0mm)



Body Bottom Setup Photo(0mm)



SAR Evaluation Report 34 of 35

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

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

SAR Evaluation Report 35 of 35