
SAR Test Report

Report No.: AGC13369230801FH01

FCC ID : 2A6IY-H10

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Wireless Data Terminal

BRAND NAME : Senraise

MODEL NAME : H10, H10C, H10S, H10P, Hi20, V3, V7, V8, V10, Q5, Q7, Q9, Q10, z95, z96, z98, H5, H8, R330

APPLICANT : Shanghai Senraise Intelligent Technology Co., Ltd.

DATE OF ISSUE : Sep. 07, 2023

STANDARD(S) : IEEE Std. 1528:2013
FCC 47 CFR Part 2§2.1093
IEEE Std C95.1™-2005

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 07, 2023	Valid	Initial Release

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Test Report

Applicant Name	Shanghai Senraise Intelligent Technology Co., Ltd.
Applicant Address	Room 951, Zone D, floor 1, building 1, No. 58, Dijie Road, Baoshan District, Shanghai, China
Manufacturer Name	Shanghai Senraise Intelligent Technology Co., Ltd.
Manufacturer Address	Room 951, Zone D, floor 1, building 1, No. 58, Dijie Road, Baoshan District, Shanghai, China
Factory Name	Shanghai Senraise Intelligent Technology Co., Ltd.
Factory Address	Room 951, Zone D, floor 1, building 1, No. 58, Dijie Road, Baoshan District, Shanghai, China
Product Designation	Wireless Data Terminal
Brand Name	Senraise
Model Name	H10
Series models	H10C, H10S, H10P, Hi20, V3, V7, V8, V10, Q5, Q7, Q9, Q10, z95, z96, z98, H5, H8, R330
Different Description	All the same except for the model name.
EUT Voltage	DC7.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005
Date of receipt of test item	Aug. 02, 2023
Test Date	Aug. 08, 2023 to Aug. 28, 2023
Report Template	AGCRT-US-4G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By



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Aug. 28, 2023

Reviewed By



Calvin Liu
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Sep. 07, 2023

Approved By



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Sep. 07, 2023

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 1g-SAR(W/kg)		SAR Test Limit (W/kg)
	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	1.157	1.157	1.6
PCS 1900	0.460	0.460	
UMTS Band II	0.763	0.763	
UMTS Band IV	1.377	1.377	
UMTS Band V	0.691	0.691	
LTE Band 2	0.824	0.824	
LTE Band 4	0.778	0.778	
LTE Band 5	0.471	0.471	
LTE Band 7	0.261	0.261	
LTE Band 38	0.402	0.402	
LTE Band 40	0.286	0.286	
LTE Band 41	0.335	0.335	
WIFI 2.4G	0.207	0.207	
5.2GHz (U-NII-1)	0.076	0.076	
5.3GHz (U-NII-2A)	0.080	0.080	
5.8GHz (U-NII-3)	0.081	0.081	
Simultaneous Reported SAR	1.536		
SAR Test Result	PASS		

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- KDB 941225 D05 SAR for LTE Devices v02r05

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Wireless Data Terminal
Test Model	H10
Sample ID	230802003
Hardware Version	V2.0
Software Version	H10-OS01 13.0.90
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GPRS& EGPRS	
Support Band	☒ GSM 850 ☒ PCS 1900 ☐ GSM 900 ☐ DCS 1800
GPRS & EGPRS Type	Class B
GPRS & EGPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850 : 820-850MHz; PCS 1900: 1850-1910MHz;
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: 0.3dBi; PCS1900: 1dBi
Max. Average Power	GSM850: 32.47dBm; PCS1900: 30.72 dBm
WCDMA	
Support Band	☒ UMTS FDD Band II ☒ UMTS FDD Band V ☒ UMTS FDD Band IV ☐ UMTS FDD Band I ☐ UMTS FDD Band III ☐ UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 1.0dBi; Band IV: 0.8dBi; Band V: 0.3dBi
Max. Average Power	Band II: 23.73dBm; Band IV: 23.93dBm; Band V: 23.05dBm
Bluetooth	
Bluetooth Version	☐ V2.0 ☐ V2.1 ☐ V2.1+EDR ☒ V3.0 ☐ V3.0+HS ☐ V4.1 ☒ V4.2
Operation Frequency	2402~2480MHz
Type of modulation	☒ GFSK ☒ π/4-DQPSK ☒ 8-DPSK
Peak Power	5.138dBm
Antenna Gain	1.01dBi
2.4GHz WIFI	
WIFI Specification	☐ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n(20) ☒ 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.02dBm,11g: 12.91dBm,11n(20): 12.94dBm,11n(40): 11.56dBm
Antenna Gain	1.01dBi

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EUT Description(Continue)

LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4 ☒ FDD Band 5 ☒ FDD Band 7 ☐ FDD Band 12 ☐ FDD Band 13 ☐ FDD Band 17 ☐ FDD Band 25 ☐ FDD Band 26 ☒ TDD Band 38 ☒ TDD Band 40 ☒ TDD Band 41
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 38: 2570-2620 MHz; Band 40:2305-2320&2345-2360MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 38: 2570-2620 MHz; Band 40:2305-2320&2345-2360MHz; Band 41:2496-2690MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 1.0dBi; Band 4: 0.8dBi; Band 5: 0.3dBi; Band 7: 1.2dBi; Band 38: 1.2dBi; Band 40: 1.2dBi; Band 41: 1.2dBi;
Max. Average Power	Band 2: 24.32 dBm; Band 4: 23.97dBm; Band 5: 22.94dBm; Band 7: 24.69dBm; Band 38: 23.93dBm; Band 40: 23.76 dBm;Band 41: 23.48 dBm;
5 GHz WIFI	
WIFI Specification	☒ 802.11a ☒ 802.11n20 ☒ 802.11n40 ☒ 802.11ac20 ☒ 802.11ac40 ☒ 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 11.19dBm; U-NII-2A: 10.84dBm; U-NII-3: 7.87dBm
Antenna Gain	0.85dBi
Accessories	
Battery	Brand name: N/A Model No. : H10 Voltage and Capacitance: 7.7 V & 3300mAh
Earphone	Brand name: N/A Model No. : N/A

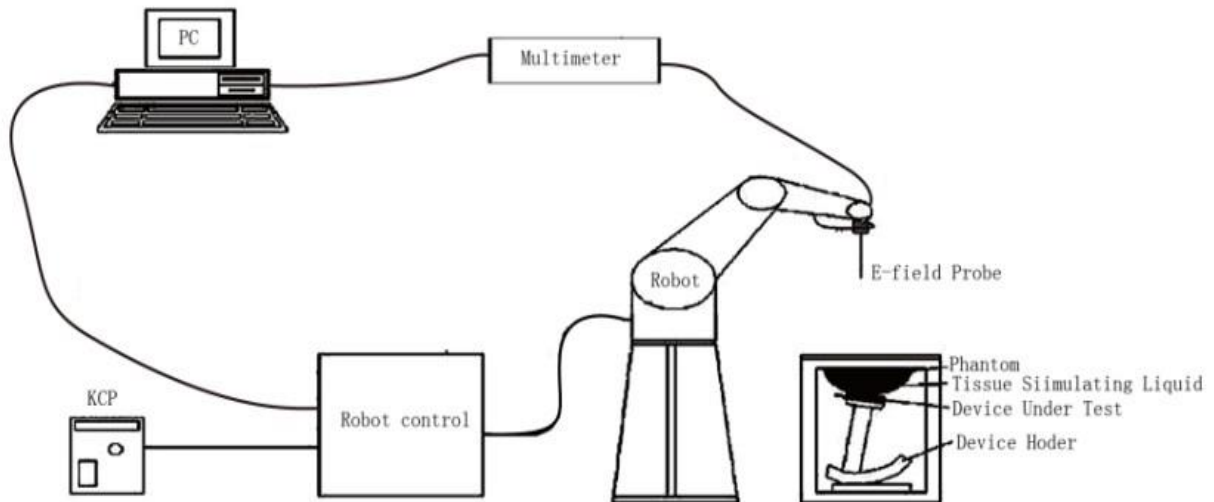
Note:1.CMU200 can measure the average power and Peak power at the same time
2.The sample used for testing is end product.
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	☒ Production unit ☐ Identical Prototype

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3. SAR MEASUREMENT SYSTEM

3.1. The SATIMO system used for performing compliance tests consists of following items



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

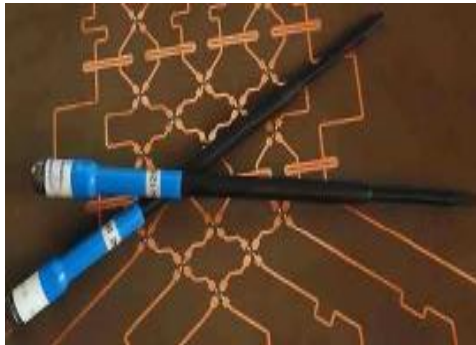
- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.

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3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	SN 45/22 EPGO391	
Frequency	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

The XL robot series have many features that are important for our application:

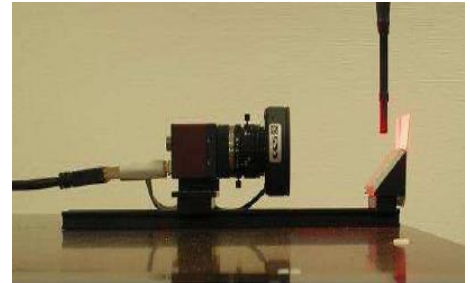
- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



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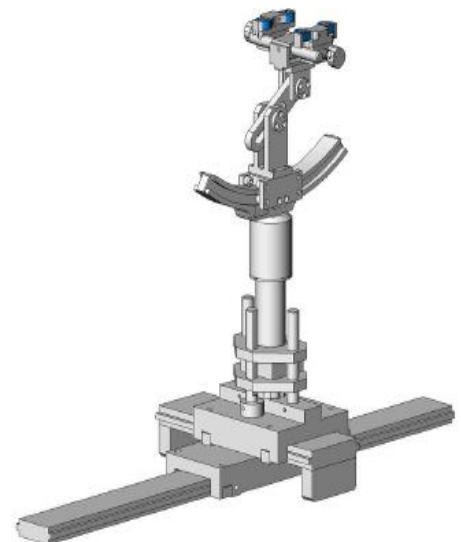
3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.6. 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 6mm). It has three measurement areas:

- ☐ Left head
- ☐ Right head
- ☐ Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

ELLI39 Phantom

The Flat phantom is a fiberglass shellphantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element(dv) of given mass density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR can be obtained using either of the following equations:

$$SAR = \frac{\sigma E^2}{\rho}$$

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c _h	is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$ is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties,

Step 2: 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 fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal 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 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on 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 1g and 10g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement 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 same settings. 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.

4.3. RF Exposure Conditions

Test Configuration and setting:

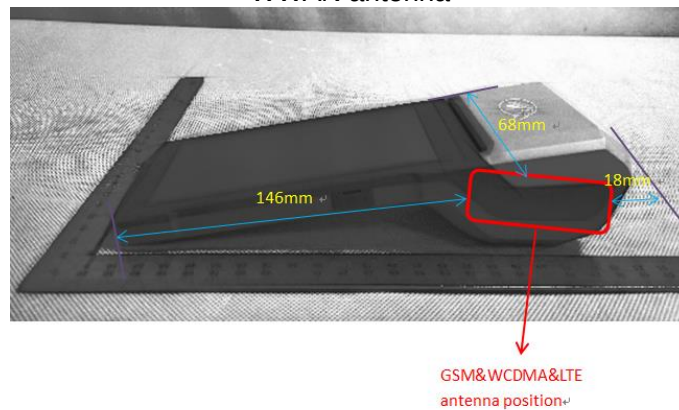
The EUT is a model of GSM Portable Mobile Station (MS). It supports GPRS/EGPRS, WCDMA/HSPA, LTE, BT, WIFI, and support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

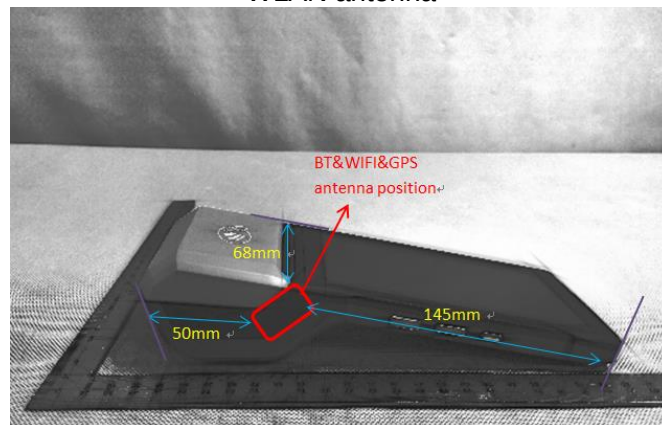
For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

Antenna Location:

WWAN antenna



WLAN antenna



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For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	18mm	Yes	--
Edge 2 (Right)	3mm	Yes	--
Edge 3 (Bottom)	146mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	68mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	50mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	68mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	145mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	3mm	Yes	--

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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2300 Head	62.82	0.51	0.0	36.67	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
2600 Head	55.242	0.306	0	44.452	0	0	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head and body tissue dielectric parameters recommended by the IEEE Std. 1528 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
750	41.9	0.89	41.9	0.89
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1750	40.1	1.37	40.1	1.37
1800 – 2000	40.0	1.40	40.0	1.40
2300	39.5	1.67	39.5	1.67
2450	39.2	1.80	39.2	1.80
2600	39.0	1.96	39.0	1.96
3000	38.5	2.40	38.5	2.40
5200	36.0	4.66	36.0	4.66
5300	35.9	4.76	35.9	4.76
5600	35.5	5.07	35.5	5.07
5800	35.3	5.27	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 835MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 41.5 (37.35-45.65)	δ [s/m] 0.90(0.81-0.99)		
	824.2	42.12	0.85	20.4	Aug. 09, 2023
	835	40.18	0.88		
	836.4	39.95	0.90		
	836.5	39.95	0.90		
	836.6	39.95	0.90		
	848.8	38.59	0.93		

Tissue Stimulant Measurement for 1750MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 40.1 (36.09-44.11)	δ [s/m] 1.37(1.233-1.507)		
	1712.4	43.02	1.36	20.7	Aug. 19, 2023
	1732.4	42.59	1.38		
	1732.5	42.59	1.38		
	1750	41.07	1.41		
	1752.6	40.26	1.43		

Tissue Stimulant Measurement for 1900MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 40.00(36.00-44.00)	δ [s/m] 1.40(1.26-1.54)		
	1860	41.83	1.30	20.3	Aug. 20, 2023
	1880	40.41	1.32		
	1900	39.13	1.36		

Tissue Stimulant Measurement for 2300MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 39.5 (35.55-43.45)	δ [s/m] 1.67 (1.503-1.837)		
	2300	38.70	1.68	20.8	Aug. 16, 2023
	2355	38.10	1.70		

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Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 39.2(35.28-43.12)	δ [s/m]1.80(1.62-1.98)		
	2437	38.95	1.81	20.4	Aug. 15, 2023
	2450	37.14	1.85		

Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 39(35.1-42.9)	δ [s/m]1.96(1.764-2.156)		
	2535	40.35	1.83	20.3	Aug. 14, 2023
	2593	39.91	1.86		
	2595	39.27	1.88		
	2600	38.13	1.92		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 36.0(32.4-39.6)	δ [s/m] 4.66(4.194 -5.126)		
	5200	35.83	4.61	21.1	Aug. 26, 2023

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 35.9(34.105-37.695)	δ [s/m] 4.76(4.522-4.998)		
	5290	35.27	4.61	21.2	Aug. 27, 2023
	5300	34.95	4.77		

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 35.3 (31.77-38.83)	δ [s/m] 5.27 (4.743-5.797)		
	5785	36.37	5.41	20.3	Aug. 28, 2023
	5800	35.42	5.43		

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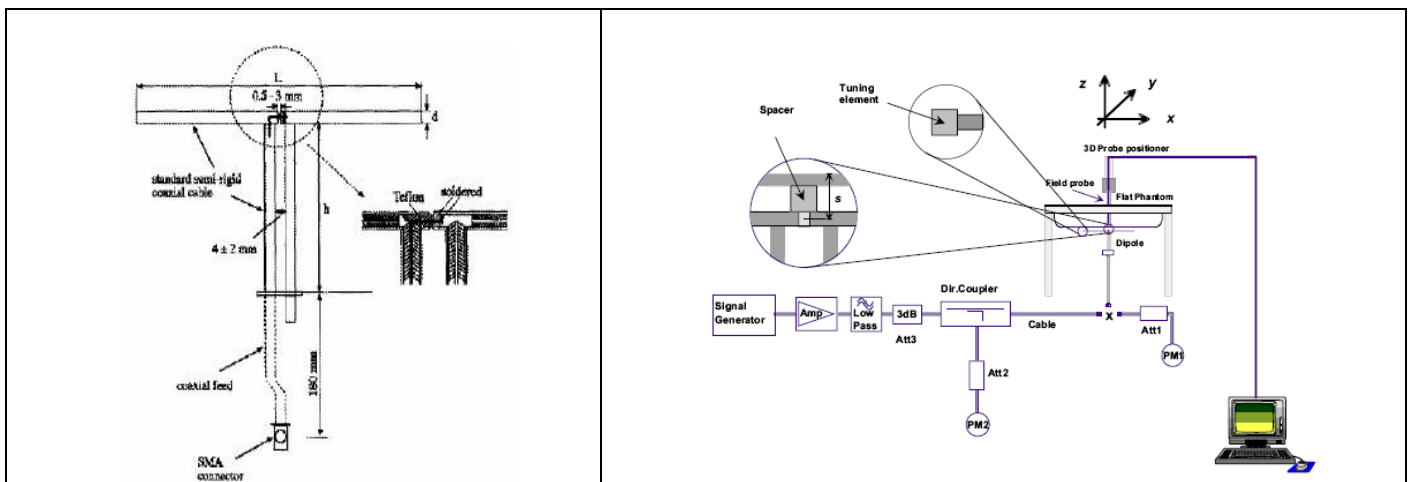
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

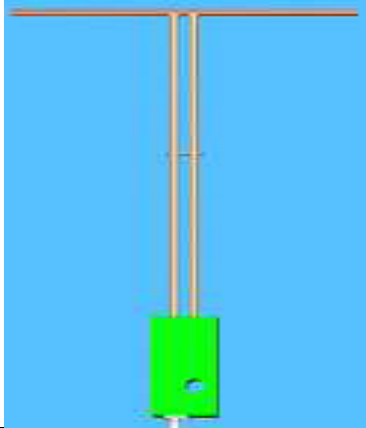
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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6.2. SAR System Check

6.2.1. Dipoles

	The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.
	The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.

Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2300MHz	55.5	32.6	3.6
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6
5000MHz	20.6	40.3	3.6

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6.2.2. System Check Result

System Performance Check at 835MHz &1800MHz &1900MHz &2300MHz &2450MHz&2600MHz & 5200-5800MHz for Head								
Validation Kit: SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 22/16 DIP 2G300-412& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result ($\pm 10\%$)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
835	9.67	6.14	8.703-10.637	5.526-6.754	9.41	6.02	20.4	Aug. 09, 2023
1800	37.76	19.60	33.984-41.536	17.640-21.560	35.47	19.29	20.7	Aug. 19, 2023
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.90	21.03	20.3	Aug. 20, 2023
2300	50.12	23.16	45.108-55.132	20.844-25.476	53.47	24.11	20.8	Aug. 16, 2023
2450	54.32	24.25	48.888-59.752	21.825-26.675	55.10	22.09	20.4	Aug. 15, 2023
2600	54.94	23.77	49.446-60.434	21.393-26.147	74.83	22.99	20.3	Aug. 14, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	81.81	25.66	21.1	Aug. 26, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	76.57	23.63	21.2	Aug. 27, 2023
5800	75.69	22.44	68.121-83.259	20.196-24.684	76.57	23.63	20.3	Aug. 28, 2023

Note:

(1) We use a CW signal of 18dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

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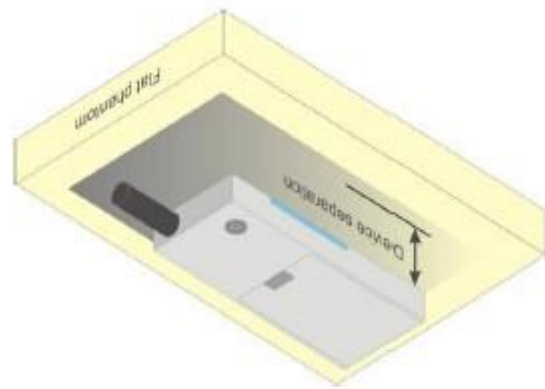
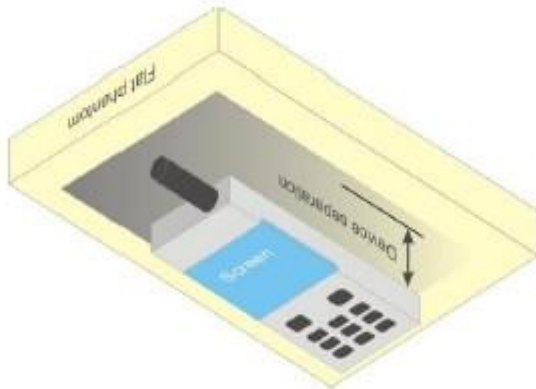
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7. EUT TEST POSITION

This EUT was tested in **Body back, Body front and 4 edges.**

7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **10mm**.



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8. SAR EXPOSURE LIMITS

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	SN 45/22 EPGO391	N/A	Dec. 02, 2022	Dec. 01, 2023
Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Jun. 03, 2023	Jun. 02, 2024
Comm Tester	R&S- CMW500	121209	V3.7.40	Jun. 01, 2023	May 31, 2024
Multimeter	Keithley 2000	4114939	N/A	Jun. 01, 2023	May 31, 2024
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SATIMO SID2300	SN 22/16 DIP 2G300-412	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Jun. 01, 2023	May 31, 2024
EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	Jun. 01, 2023	May 31, 2024
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 17, 2022	Oct. 16, 2023
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 07, 2023	June 06, 2024
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 07, 2023	June 06, 2024
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10, 2022	Mar. 09, 2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10, 2022	Mar. 09, 2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 07, 2023	Sep. 06, 2024
Power Sensor	NRP-Z23	100323	N/A	Feb. 15, 2023	Feb. 14, 2024
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07,2021	Dec. 06, 2022

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 45/22 EPG0391 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.215	R	1.732	0.707	0.707	0.088	0.088	∞
Hemispherical Isotropy	E.2.2	0.215	R	1.732	0.707	0.707	0.088	0.088	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	0.995	R	1.732	1	1	0.574	0.574	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.059	20.689	

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SATIMO Uncertainty- SN 45/22 EPG0391 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.215	R	1.732	1.000	1.000	0.124	0.124	∞
Hemispherical Isotropy	E.2.2	0.215	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Linearity	E.2.4	0.995	R	1.732	1.000	1.000	0.574	0.574	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.925	20.552	

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SATIMO Uncertainty- SN 45/22 EPG0391									
System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	7.000	N	1	1	1	7	7	∞
Axial Isotropy	E.2.2	0.215	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	0.215	R	$\sqrt{3}$	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0	0	∞
Linearity	E.2.4	0.995	R	$\sqrt{3}$	0	0	0	0	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0	0	∞
Modulation response	E.2.5	3	R	$\sqrt{3}$	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	$\sqrt{3}$	0	0	0	0	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				8.927	8.708	
Expanded Uncertainty (95% Confidence interval)			K=2				17.853	17.415	

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12. CONDUCTED POWER MEASUREMENT

GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GPRS 850 (1 Slot)	824.2	32.47	-9	23.47
	836.6	32.40	-9	23.40
	848.8	32.34	-9	23.34
GPRS 850 (2 Slot)	824.2	30.55	-6	24.55
	836.6	30.41	-6	24.41
	848.8	30.33	-6	24.33
GPRS 850 (3 Slot)	824.2	28.71	-4.26	24.45
	836.6	28.63	-4.26	24.37
	848.8	28.48	-4.26	24.22
GPRS 850 (4 Slot)	824.2	26.52	-3	23.52
	836.6	26.47	-3	23.47
	848.8	26.31	-3	23.31
EGPRS 850 (1 Slot)	824.2	26.34	-9	17.34
	836.6	26.36	-9	17.36
	848.8	26.25	-9	17.25
EGPRS 850 (2 Slot)	824.2	24.57	-6	18.57
	836.6	24.11	-6	18.11
	848.8	24.71	-6	18.71
EGPRS 850 (3 Slot)	824.2	22.01	-4.26	17.75
	836.6	22.15	-4.26	17.89
	848.8	22.00	-4.26	17.74
EGPRS 850 (4 Slot)	824.2	20.13	-3	17.13
	836.6	20.20	-3	17.2
	848.8	20.19	-3	17.19

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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GPRS1900 (1 Slot)	1850.2	30.16	-9	21.16
	1880	30.55	-9	21.55
	1909.8	30.72	-9	21.72
GPRS1900 (2 Slot)	1850.2	28.25	-6	22.25
	1880	28.36	-6	22.36
	1909.8	28.15	-6	22.15
GPRS1900 (3 Slot)	1850.2	26.31	-4.26	22.05
	1880	26.19	-4.26	21.93
	1909.8	26.34	-4.26	22.08
GPRS1900 (4 Slot)	1850.2	24.21	-3	21.21
	1880	24.25	-3	21.25
	1909.8	24.09	-3	21.09
EGPRS1900 (1 Slot)	1850.2	26.18	-9	17.18
	1880	26.81	-9	17.81
	1909.8	26.93	-9	17.93
EGPRS1900 (2 Slot)	1850.2	24.52	-6	18.52
	1880	24.26	-6	18.26
	1909.8	24.19	-6	18.19
EGPRS1900 (3 Slot)	1850.2	22.25	-4.26	17.99
	1880	22.19	-4.26	17.93
	1909.8	22.32	-4.26	18.06
EGPRS1900 (4 Slot)	1850.2	20.16	-3	17.16
	1880	20.24	-3	17.24
	1909.8	20.15	-3	17.15

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.26 dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

UMTS BAND

HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Based Station with following setting:
 - (1) Set Gain Factors(β_c and β_d) parameters set according to each
 - (2) Set RMC 12.2Kbps+HSDPA mode.
 - (3) Set Cell Power=-86dBm
 - (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - (5) Select HSDPA Uplink Parameters
 - (6) Set Delta ACK, Delta NACK and Delta CQI=8
 - (7) Set Ack - Nack Repetition Factor to 3
 - (8) Set CQI Feedback Cycle (k) to 4ms
 - (9) Set CQI Repetition Factor to 2
 - (10) Power Ctrl Mode=All Up bits
- The transmitted maximum output power was recorded.

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c (Note5)	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta NACK = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta CQI = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $hs/c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the c/d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $c = 11/15$ and $d = 15/15$.

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - (2) Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - (3) Set Cell Power = -86 dBm
 - (4) Set Channel Type = 12.2k + HSPA
 - (5) Set UE Target Power
 - (6) Power Ctrl Mode= Alternating bits
 - (7) Set and observe the E-TFCI
 - (8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, ΔACK , $\Delta NACK$ and $\Delta CQI = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, ΔACK , $\Delta NACK$ and $\Delta CQI = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $hs/c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the c/d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $c = 10/15$ and $d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	21.98
	1880	21.67
	1907.6	21.82
HSDPA Subtest 1	1852.4	21.02
	1880	23.68
	1907.6	20.81
HSDPA Subtest 2	1852.4	20.50
	1880	23.15
	1907.6	20.31
HSDPA Subtest 3	1852.4	20.52
	1880	23.17
	1907.6	20.31
HSDPA Subtest 4	1852.4	20.52
	1880	23.13
	1907.6	20.29
HSUPA Subtest 1	1852.4	19.13
	1880	21.72
	1907.6	18.87
HSUPA Subtest 2	1852.4	19.59
	1880	22.19
	1907.6	19.37
HSUPA Subtest 3	1852.4	20.13
	1880	22.73
	1907.6	19.87
HSUPA Subtest 4	1852.4	19.16
	1880	21.73
	1907.6	18.91
HSUPA Subtest 5	1852.4	21.08
	1880	23.73
	1907.6	20.88

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UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	22.31
	1732.4	22.34
	1752.6	21.24
HSDPA Subtest 1	1712.4	21.26
	1732.4	20.37
	1752.6	21.37
HSDPA Subtest 2	1712.4	20.76
	1732.4	22.85
	1752.6	23.93
HSDPA Subtest 3	1712.4	20.78
	1732.4	22.85
	1752.6	23.80
HSDPA Subtest 4	1712.4	20.64
	1732.4	22.04
	1752.6	23.80
HSUPA Subtest 1	1712.4	20.27
	1732.4	20.37
	1752.6	22.31
HSUPA Subtest 2	1712.4	20.76
	1732.4	20.82
	1752.6	22.79
HSUPA Subtest 3	1712.4	21.25
	1732.4	19.32
	1752.6	23.29
HSUPA Subtest 4	1712.4	20.29
	1732.4	18.29
	1752.6	22.24
HSUPA Subtest 5	1712.4	21.18
	1732.4	22.21
	1752.6	20.34

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	20.61
	836.4	21.69
	846.6	23.05
HSDPA Subtest 1	826.4	22.98
	836.4	20.66
	846.6	21.98
HSDPA Subtest 2	826.4	22.43
	836.4	20.13
	846.6	21.46
HSDPA Subtest 3	826.4	22.44
	836.4	20.17
	846.6	21.48
HSDPA Subtest 4	826.4	22.44
	836.4	20.16
	846.6	21.50
HSUPA Subtest 1	826.4	20.98
	836.4	20.88
	846.6	20.18
HSUPA Subtest 2	826.4	21.47
	836.4	20.36
	846.6	20.65
HSUPA Subtest 3	826.4	22.02
	836.4	19.88
	846.6	21.15
HSUPA Subtest 4	826.4	21.01
	836.4	18.86
	846.6	20.22
HSUPA Subtest 5	826.4	23.00
	836.4	20.86
	846.6	22.18

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According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_d/\beta_{d1}=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

LTE Band

LTE (TDD) Considerations

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 38,40,41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle(%)
		0	1	2	3	4	5	6	7	8	9	
0	5ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5ms	D	S	U	U	U	D	S	U	U	D	53.33

Note: Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$ seconds

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LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	21.13	23.71	20.27
			3	0	21.33	23.66	20.27
			5	0	21.12	23.48	20.04
		3	0	0	21.20	23.69	20.24
			2	0	21.24	23.63	20.26
			3	0	21.20	23.63	20.17
		6	0	1	20.23	22.65	19.24
	16QAM	1	0	1	20.20	22.81	19.15
			3	1	20.41	22.89	19.18
			5	1	20.24	22.61	18.93
		3	0	1	20.06	22.60	19.08
			2	1	20.07	22.63	19.05
			3	1	20.02	22.50	18.96
		6	0	2	19.28	21.57	18.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	21.09	23.83	20.66
			7	0	21.22	23.65	20.34
			14	0	21.19	23.38	20.06
		8	0	1	20.14	22.73	19.56
			4	1	20.15	22.76	19.56
			7	1	20.22	22.46	19.24
		15	0	1	20.15	22.57	19.35
	16QAM	1	0	1	20.27	23.00	19.55
			7	1	20.29	22.72	19.24
			14	1	20.32	22.49	18.97
		8	0	2	19.18	21.72	18.54
			4	2	19.20	21.72	18.56
			7	2	19.30	21.48	18.25
		15	0	2	19.15	21.50	18.28

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18625	18900	19175
5MHz	QPSK	1	0	0	21.14	23.94	21.06
			13	0	21.34	23.66	20.61
			24	0	21.24	23.16	20.03
		12	0	1	20.05	22.75	19.89
			6	1	20.08	22.78	19.83
			13	1	20.30	22.37	19.23
		25	0	1	20.23	22.57	19.57
	16QAM	1	0	1	20.08	23.11	20.01
			13	1	20.32	22.83	19.61
			24	1	20.21	22.36	19.00
		12	0	2	19.07	21.79	18.87
			6	2	19.03	21.77	18.85
			13	2	19.29	21.38	18.28
		25	0	2	19.24	21.56	18.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	21.12	24.25	21.75
			25	0	21.41	23.71	21.29
			49	0	21.61	22.80	20.10
		25	0	1	20.17	23.02	20.61
			13	1	20.18	23.02	20.62
			25	1	20.63	22.19	19.60
		50	0	1	20.41	22.58	20.12
	16QAM	1	0	1	20.32	23.46	20.66
			25	1	20.58	22.85	20.16
			49	1	20.82	22.03	19.00
		25	0	2	19.16	22.03	19.65
			13	2	19.10	22.01	19.63
			25	2	19.67	21.18	18.66
		50	0	2	19.39	21.61	19.14

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18675	18900	19125
15MHz	QPSK	1	0	0	21.05	24.32	21.86
			38	0	21.46	23.58	21.59
			74	0	22.35	22.46	20.10
		36	0	1	20.68	22.61	20.43
			18	1	20.64	22.59	20.41
			39	1	20.70	22.57	20.42
		75	0	1	20.69	22.60	20.44
	16QAM	1	0	1	20.26	23.63	20.75
			38	1	20.66	22.89	20.48
			74	1	21.53	21.69	18.97
		36	0	2	20.69	22.60	20.41
			18	2	20.69	22.58	20.39
			39	2	20.63	22.58	20.43
		75	0	2	19.62	21.62	19.39
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	21.00	24.02	21.79
			50	0	21.83	23.82	21.82
			99	0	23.56	22.06	19.85
		50	0	1	20.23	23.10	20.88
			25	1	20.25	23.10	20.89
			50	1	21.52	21.86	20.06
		100	0	1	20.93	22.46	20.44
	16QAM	1	0	1	20.03	23.20	20.83
			50	1	20.92	22.90	20.86
			99	1	22.54	21.24	18.95
		50	0	2	19.25	22.13	19.93
			25	2	19.22	22.15	19.92
			50	2	20.50	20.85	19.06
		100	0	2	19.90	21.45	19.50

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19957	20175	20393
1.4MHz	QPSK	1	0	0	21.43	20.11	21.30
			3	0	21.26	21.34	20.53
			5	0	21.19	21.27	21.45
		3	0	0	21.43	20.23	21.43
			2	0	21.44	21.24	20.43
			3	0	21.32	20.36	21.54
		6	0	1	20.35	21.23	21.44
	16QAM	1	0	1	20.50	21.03	20.47
			3	1	20.57	21.33	20.67
			5	1	20.26	21.18	21.62
		3	0	1	20.32	20.09	21.35
			2	1	20.34	21.08	20.33
			3	1	20.19	20.11	21.38
		6	0	2	19.25	23.24	20.51
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	21.49	21.01	21.09
			7	0	21.06	21.28	21.37
			14	0	20.86	21.36	20.53
		8	0	1	20.30	21.09	21.24
			4	1	20.30	20.12	21.20
			7	1	20.06	21.31	21.41
		15	0	1	20.12	20.21	21.22
	16QAM	1	0	1	20.64	20.18	21.95
			7	1	20.21	20.40	21.28
			14	1	20.00	20.53	21.43
		8	0	2	19.36	21.16	20.20
			4	2	19.36	23.15	20.20
			7	2	19.11	23.35	20.43
		15	0	2	19.15	23.19	20.20

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19975	20175	20375
5MHz	QPSK	1	0	0	21.41	21.77	21.46
			13	0	20.93	20.30	21.17
			24	0	20.72	21.41	21.44
		12	0	1	20.16	21.01	20.72
			6	1	20.12	23.98	21.72
			13	1	19.84	20.35	20.20
		25	0	1	19.98	20.25	21.95
	16QAM	1	0	1	20.41	21.01	22.49
			13	1	19.95	21.45	22.16
			24	1	19.72	21.69	21.43
		12	0	2	19.15	21.05	20.70
			6	2	19.13	21.08	22.71
			13	2	18.80	23.35	21.16
		25	0	2	19.02	23.15	21.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	21.36	21.42	21.16
			25	0	20.69	20.29	20.48
			49	0	21.95	20.80	21.47
		25	0	1	19.92	23.97	21.77
			13	1	19.90	23.93	21.75
			25	1	20.34	21.60	21.86
		50	0	1	20.08	20.19	22.29
	16QAM	1	0	1	20.57	23.60	22.06
			25	1	20.03	21.40	21.36
			49	1	21.20	21.97	22.35
		25	0	2	18.89	23.02	21.82
			13	2	18.91	23.01	21.82
			25	2	19.33	23.67	22.90
		50	0	2	19.10	23.26	22.34

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20025	20175	20325
15MHz	QPSK	1	0	0	21.21	23.87	20.24
			38	0	21.33	21.21	20.78
			74	0	23.47	21.97	20.30
		36	0	1	20.78	22.23	20.86
			18	1	20.82	22.20	20.85
			39	1	20.83	21.21	21.89
		75	0	1	20.81	21.21	20.84
	16QAM	1	0	1	20.41	23.17	22.15
			38	1	20.52	21.52	21.69
			74	1	22.69	20.26	21.22
		36	0	2	20.82	20.21	21.83
			18	2	20.81	21.25	20.89
			39	2	20.79	21.20	20.84
		75	0	2	19.76	23.25	20.82
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	21.04	23.19	21.35
			50	0	22.39	20.39	21.08
			99	0	21.31	21.10	21.96
		50	0	1	20.13	23.53	22.20
			25	1	20.10	23.53	21.21
			50	1	22.41	21.93	21.29
		100	0	1	21.33	22.29	22.39
	16QAM	1	0	1	20.05	22.39	22.45
			50	1	21.32	21.65	21.15
			99	1	23.37	21.41	21.11
		50	0	2	19.12	22.55	21.33
			25	2	19.11	22.59	21.28
			50	2	21.43	23.97	22.29
		100	0	2	20.37	23.27	22.45

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	22.89	19.95	21.70
			3	0	22.82	20.51	22.15
			5	0	22.61	20.35	21.93
		3	0	0	22.94	19.99	21.78
			2	0	22.94	19.97	21.76
			3	0	22.79	20.36	21.99
		6	0	1	21.76	19.26	21.09
	16QAM	1	0	1	22.05	19.19	21.01
			3	1	22.08	19.63	21.36
			5	1	21.81	19.63	21.38
		3	0	1	21.86	19.14	21.02
			2	1	21.86	19.20	21.00
			3	1	21.67	19.43	21.14
		6	0	2	20.92	18.24	20.20
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	22.91	19.25	20.94
			7	0	22.47	20.35	21.71
			14	0	22.02	20.72	21.85
		8	0	1	21.75	18.96	20.57
			4	1	21.77	18.93	20.54
			7	1	21.34	19.55	21.04
		15	0	1	21.47	19.27	20.86
	16QAM	1	0	1	22.17	18.93	20.59
			7	1	21.62	19.54	21.08
			14	1	21.23	20.04	21.35
		8	0	2	20.90	18.03	19.70
			4	2	20.83	18.06	19.67
			7	2	20.38	18.63	20.15
		15	0	2	20.64	18.24	19.89

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	22.83	18.60	20.32
			13	0	22.16	20.20	20.90
			24	0	20.67	21.34	21.88
		12	0	1	21.64	18.73	20.02
			6	1	21.65	18.76	20.09
			13	1	20.57	19.89	20.94
		25	0	1	21.17	19.44	20.53
	16QAM	1	0	1	21.94	18.66	19.64
			13	1	21.20	19.66	20.70
			24	1	20.07	20.57	21.16
		12	0	2	20.63	17.89	19.05
			6	2	20.69	17.89	19.08
			13	2	19.60	18.96	20.01
		25	0	2	20.29	18.45	19.63
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	22.80	18.31	18.34
			25	0	20.19	19.99	20.06
			49	0	18.04	22.48	21.70
		25	0	1	21.28	18.54	18.62
			13	1	21.24	18.52	18.59
			25	1	18.76	20.57	20.48
		50	0	1	20.39	19.69	19.56
	16QAM	1	0	1	22.01	18.40	17.61
			25	1	20.02	19.56	19.83
			49	1	18.26	21.71	21.26
		25	0	2	20.32	17.68	17.63
			13	2	20.35	17.67	17.64
			25	2	17.88	19.63	19.52
		50	0	2	19.35	18.85	18.67

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20775	21100	21425
5MHz	QPSK	1	0	0	19.52	23.65	23.32
			12	0	19.97	23.93	23.44
			24	0	20.22	23.92	23.26
		12	0	1	18.61	22.76	22.30
			6	1	18.65	22.77	22.43
			13	1	19.05	22.91	22.31
		25	0	1	18.83	22.85	22.35
	16QAM	1	0	1	18.44	22.73	22.48
			12	1	18.90	23.02	22.58
			24	1	19.15	22.97	22.40
		12	0	2	17.58	21.74	21.41
			6	2	17.56	21.79	21.39
			13	2	18.05	21.90	21.33
		25	0	2	17.91	21.84	21.34
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	19.48	23.66	23.67
			24	0	20.24	23.97	23.58
			49	0	21.22	24.16	23.33
		25	0	1	18.86	22.86	22.54
			12	1	18.90	22.84	22.54
			25	1	19.87	23.08	22.41
		50	0	1	19.38	22.95	22.47
	16QAM	1	0	1	18.62	22.86	22.56
			24	1	19.50	23.01	22.36
			49	1	20.38	23.37	22.15
		25	0	2	17.85	21.86	21.59
			12	2	17.87	21.87	21.58
			25	2	18.88	22.05	21.43
		50	0	2	18.40	22.01	21.44

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	19.44	23.60	24.11
			37	0	20.79	23.83	23.53
			74	0	22.49	24.43	23.23
		37	0	1	20.22	23.00	22.75
			16	1	20.18	22.99	22.70
			35	1	20.19	23.05	22.74
		75	0	1	20.26	23.01	22.70
	16QAM	1	0	1	18.57	22.95	23.01
			37	1	19.94	23.14	22.45
			74	1	21.66	23.70	22.10
		37	0	2	20.22	23.00	22.74
			16	2	20.23	23.05	22.71
			35	2	20.23	23.03	22.72
		75	0	2	19.12	21.98	21.66
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	19.36	23.54	24.61
			49	0	21.63	23.99	23.72
			99	0	23.36	24.69	22.98
		50	0	1	19.35	22.77	23.27
			25	1	19.37	22.81	23.27
			49	1	21.75	23.27	22.41
		100	0	1	20.75	23.02	22.86
	16QAM	1	0	1	18.34	22.65	23.61
			49	1	20.65	23.14	22.84
			99	1	22.42	23.77	22.05
		50	0	2	18.32	21.79	22.25
			25	2	18.35	21.83	22.30
			49	2	20.72	22.27	21.47
		100	0	2	19.74	22.02	21.82

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37775	38000	38225
5MHz	QPSK	1	0	0	23.07	20.09	20.04
			12	0	23.08	20.89	20.84
			24	0	23.73	20.50	21.37
		12	0	1	23.09	20.08	19.40
			6	1	23.12	20.04	19.44
			13	1	22.97	20.69	20.15
		25	0	1	23.02	20.90	19.85
	16QAM	1	0	1	23.40	20.42	19.22
			12	1	23.44	21.14	20.06
			24	1	23.11	21.84	20.57
		12	0	2	22.11	21.13	19.33
			6	2	22.09	21.08	20.37
			13	2	21.96	21.82	19.09
		25	0	2	22.06	20.95	18.82
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37800	38000	38200
10MHz	QPSK	1	0	0	21.18	20.87	19.01
			24	0	23.93	20.10	20.27
			49	0	22.46	21.75	21.45
		25	0	1	23.10	21.46	18.59
			12	1	23.08	20.45	18.58
			25	1	22.33	20.80	19.84
		50	0	1	22.74	20.14	19.28
	16QAM	1	0	1	23.56	20.81	20.08
			24	1	23.32	20.03	19.30
			49	1	21.83	20.63	20.47
		25	0	2	22.18	21.48	20.66
			12	2	22.19	21.47	21.65
			25	2	21.42	20.80	19.90
		50	0	2	21.72	20.17	20.24

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37825	38000	38175
15MHz	QPSK	1	0	0	21.08	20.58	20.80
			38	0	23.14	19.97	20.44
			74	0	20.39	20.92	21.20
		37	0	1	22.00	20.34	18.59
			18	1	21.99	20.31	20.61
			37	1	22.02	20.34	18.62
		75	0	1	22.02	21.34	19.63
	16QAM	1	0	1	23.46	20.65	20.84
			38	1	22.53	20.97	21.57
			74	1	19.72	20.91	20.27
		37	0	2	22.03	21.32	18.64
			18	2	22.03	20.31	18.61
			37	2	22.01	20.35	18.60
		75	0	2	21.05	20.32	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37850	38000	38150
20MHz	QPSK	1	0	0	23.91	19.26	20.64
			49	0	22.38	21.04	20.91
			99	0	18.26	20.14	20.84
		50	0	1	22.44	20.10	20.82
			25	1	22.47	21.09	20.81
			49	1	19.48	20.82	21.88
		100	0	1	21.19	20.52	20.95
	16QAM	1	0	1	23.10	21.96	20.63
			49	1	21.59	20.74	20.90
			99	1	20.46	20.77	19.86
		50	0	2	21.50	20.18	20.81
			25	2	21.54	20.16	20.79
			49	2	20.56	20.86	20.89
		100	0	2	20.23	21.58	20.00

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Avg. Output Power of LTE Band 40(dBm) -Lower Side						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				38725	38750	38775
5MHz	QPSK	1	0	21.17	21.99	22.34
			12	22.09	22.64	22.76
			24	22.31	22.71	22.73
		12	0	20.65	21.32	21.67
			6	20.62	21.30	21.69
			13	21.21	21.62	21.83
		25	0	20.94	21.50	21.79
	16QAM	1	0	20.50	21.36	21.76
			12	21.39	22.00	22.16
			24	21.70	22.05	22.10
		12	0	19.59	20.30	20.73
			6	19.64	20.29	20.74
			13	20.16	20.61	20.89
		25	0	19.94	20.53	20.80
Bandwidth	Modulation	RB size	RB offset	Channel		
				38750		
10MHz	QPSK	1	0	21.22		
			24	22.56		
			49	22.81		
		25	0	20.98		
			12	21.01		
			25	21.71		
		50	0	21.34		
	16QAM	1	0	20.48		
			24	21.83		
			49	22.09		
		25	0	20.08		
			12	20.09		
			25	20.77		
		50	0	20.36		

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Avg. Output Power of LTE Band 40(dBm) -Upper Side						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39175	39200	39225
5MHz	QPSK	1	0	23.76	22.90	21.85
			12	23.10	22.11	21.26
			24	22.18	21.40	20.87
		12	0	22.52	21.58	20.67
			6	22.53	21.57	20.68
			13	21.65	20.78	20.14
		25	0	22.14	21.20	20.42
	16QAM	1	0	23.17	22.19	21.19
			12	22.48	21.50	20.65
			24	21.53	20.70	20.20
		12	0	21.48	20.54	19.70
			6	21.44	20.54	19.69
			13	20.57	19.69	19.18
		25	0	21.18	20.24	19.41
Bandwidth	Modulation	RB size	RB offset	Channel		
				39200		
10MHz	QPSK	1	0	23.74		
			24	22.24		
			49	20.98		
		25	0	22.04		
			12	22.05		
			25	20.50		
		50	0	21.35		
	16QAM	1	0	23.00		
			24	21.51		
			49	20.26		
		25	0	21.11		
			12	21.13		
			25	19.59		
		50	0	20.34		

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39675	40620	41565
5MHz	QPSK	1	0	0	22.66	20.27	21.38
			12	0	23.05	19.93	21.32
			24	0	23.26	19.50	21.99
		12	0	1	21.81	19.23	22.35
			6	1	21.81	19.23	21.33
			13	1	22.18	18.80	21.16
		25	0	1	22.05	19.06	21.23
	16QAM	1	0	1	21.97	19.73	21.64
			12	1	22.42	19.30	20.56
			24	1	22.59	18.87	20.36
		12	0	2	20.79	18.29	20.24
			6	2	20.78	18.27	21.22
			13	2	21.16	17.83	21.07
		25	0	2	21.04	18.06	20.22
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39700	40620	41540
10MHz	QPSK	1	0	0	19.78	18.16	22.60
			24	0	20.54	20.12	22.56
			49	0	21.23	21.59	22.13
		25	0	1	19.08	21.64	21.55
			12	1	19.08	20.59	21.58
			25	1	19.93	20.76	21.28
		50	0	1	19.56	21.22	21.40
	16QAM	1	0	1	19.02	19.39	21.77
			24	1	19.81	20.36	21.70
			49	1	20.53	20.83	21.27
		25	0	2	18.15	20.71	20.59
			12	2	18.16	20.69	20.60
			25	2	19.04	20.83	20.31
		50	0	2	18.52	20.25	20.35

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39725	40620	41515
15MHz	QPSK	1	0	0	19.71	18.95	22.65
			37	0	20.85	20.05	22.48
			74	0	22.26	21.69	22.06
		37	0	1	20.13	20.43	21.60
			19	1	20.14	21.44	21.60
			38	1	20.15	20.41	21.62
		75	0	1	20.14	20.44	21.58
	16QAM	1	0	1	18.98	17.97	21.82
			37	1	20.13	20.04	21.63
			74	1	21.57	20.69	21.18
		37	0	2	20.14	21.41	21.58
			19	2	20.14	21.43	21.58
			38	2	20.15	20.40	21.57
		75	0	2	19.13	20.43	20.54
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39750	40620	41490
20MHz	QPSK	1	0	0	19.63	19.73	22.82
			49	0	21.51	19.10	22.77
			99	0	23.48	19.85	22.02
		50	0	1	19.43	20.39	21.80
			25	1	19.41	20.38	21.78
			50	1	21.65	20.75	21.25
		100	0	1	20.77	20.68	21.52
	16QAM	1	0	1	18.69	18.38	21.89
			49	1	20.62	20.77	21.79
			99	1	22.59	20.51	20.98
		50	0	2	18.45	20.44	20.75
			25	2	18.51	19.43	20.76
			50	2	20.67	20.76	20.25
		100	0	2	19.82	20.70	20.51

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

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Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.4.2-1	N/A
	6.6.3.3.11	28	5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
...					
NS_20	-	-	-	-	-

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	14.46
		06	2437	15.02
		11	2462	14.10
802.11g	6	01	2412	12.91
		06	2437	12.89
		11	2462	12.21
802.11n(20)	6.5	01	2412	12.72
		06	2437	12.94
		11	2462	12.10
802.11n(40)	13.5	03	2422	11.56
		06	2437	11.49
		09	2452	10.95

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Bluetooth_V4.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	4.910
	39	2441	5.138
	78	2480	4.102
π /4-DQPSK	0	2402	4.256
	39	2441	4.447
	78	2480	3.381
8-DPSK	0	2402	4.250
	39	2441	4.499
	78	2480	3.436

Bluetooth_V4.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK_1M	0	2402	-1.787
	19	2440	-1.582
	39	2480	-2.706
GFSK_2M	0	2402	-2.306
	19	2440	-2.097
	39	2480	-3.221

Note 1:

Bluetooth(BR/EDR): Calculation Value $=[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 3.264/5 \cdot \sqrt{2.441} = 1.020 \leq 3.0$

GFSK 2M: Calculation Value $=[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.695/5 \cdot \sqrt{2.440} = 0.217 \leq 3.0$

GFSK 2M: Calculation Value $=[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.617/5 \cdot \sqrt{2.440} = 0.193 \leq 3.0$

According to KDB447498 D01 V06, threshold at which no SAR required is ≤ 3.0 for 1-g SAR, separation distance is 5mm, and no SAR measurement is required.

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5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	11.19	11.14	11.10	11.08	11.05	10.89	10.86	10.73
	40	5200	10.68	10.56	10.53	10.53	10.48	10.36	10.20	10.03
	44	5220	10.51	10.49	10.33	10.15	10.02	9.96	9.76	9.68
	48	5240	10.29	10.17	9.99	9.83	9.79	9.75	9.59	9.45
	52	5260	10.31	10.13	10.00	9.85	9.84	9.68	9.51	9.40
	56	5280	10.42	10.40	10.28	10.25	10.20	10.19	10.08	9.93
	60	5300	10.56	10.54	10.36	10.27	10.12	9.94	9.83	9.81
	64	5320	10.54	10.54	10.36	10.20	10.15	10.12	10.02	10.01
	149	5745	7.25	7.19	7.11	7.05	7.05	6.94	6.79	6.71
	157	5785	7.43	7.24	7.10	7.04	6.92	6.92	6.85	6.80
	165	5825	7.87	7.73	7.63	7.61	7.54	7.37	7.22	7.21
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	10.45	10.31	10.25	10.22	10.04	9.97	9.93	9.80
	40	5200	10.49	10.38	10.34	10.23	10.16	9.97	9.79	9.78
	44	5220	10.43	10.25	10.24	10.10	9.95	9.80	9.64	9.59
	48	5240	10.30	10.25	10.20	10.09	9.90	9.72	9.55	9.37
	52	5260	10.26	10.06	9.99	9.93	9.76	9.60	9.42	9.32
	56	5280	10.22	10.19	10.18	10.06	9.99	9.92	9.80	9.61
	60	5300	10.37	10.24	10.08	10.01	9.85	9.70	9.65	9.57
	64	5320	10.38	10.33	10.16	10.12	10.04	9.94	9.87	9.76
	149	5745	7.16	7.14	7.02	6.94	6.87	6.68	6.54	6.37
	157	5785	7.26	7.18	7.04	6.86	6.72	6.53	6.47	6.32
	165	5825	7.65	7.53	7.37	7.34	7.22	7.18	7.17	7.09
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	10.75	10.60	10.58	10.56	10.40	10.32	10.20	10.15
	46	5230	10.48	10.44	10.41	10.29	10.25	10.15	10.01	9.97
	54	5270	10.16	9.98	9.90	9.83	9.70	9.57	9.50	9.43
	62	5310	10.37	10.32	10.17	10.08	9.95	9.83	9.74	9.66
	151	5755	7.46	7.27	7.15	7.02	6.85	6.72	6.53	6.44
	159	5795	7.60	7.53	7.39	7.21	7.15	7.03	6.92	6.77

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	10.66	10.48	10.34	10.20	10.02	9.87	9.76	9.72
	40	5200	10.59	10.58	10.43	10.36	10.31	10.29	10.23	10.21
	44	5220	10.46	10.42	10.36	10.28	10.25	10.22	10.07	9.98
	48	5240	10.41	10.35	10.18	9.99	9.99	9.83	9.70	9.54
	52	5260	10.16	10.07	9.97	9.80	9.70	9.57	9.46	9.33
	56	5280	10.27	10.12	9.93	9.89	9.82	9.64	9.53	9.53
	60	5300	10.30	10.27	10.11	10.02	9.93	9.81	9.74	9.59
	64	5320	10.38	10.33	10.21	10.10	10.09	9.96	9.88	9.86
	149	5745	7.27	7.13	6.94	6.81	6.76	6.68	6.53	6.41
	157	5785	7.43	7.29	7.17	7.14	7.00	6.83	6.82	6.71
	165	5825	7.78	7.64	7.59	7.58	7.43	7.31	7.13	6.96
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	10.86	10.78	10.67	10.56	10.51	10.39	10.27	10.10
	46	5230	10.48	10.36	10.34	10.27	10.17	10.05	9.98	9.84
	54	5270	10.32	10.28	10.14	10.03	9.87	9.87	9.79	9.71
	62	5310	10.33	10.18	10.13	10.09	9.89	9.78	9.65	9.59
	151	5755	7.46	7.42	7.26	7.06	6.89	6.81	6.73	6.58
	159	5795	7.54	7.44	7.24	7.12	7.09	7.02	6.96	6.87
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	11.11	11.02	10.95	10.91	10.78	10.74	10.54	10.42
	58	5290	10.84	10.67	10.61	10.46	10.39	10.22	10.20	10.13
	155	5775	7.74	7.69	7.61	7.49	7.30	7.14	7.00	6.96

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 10mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥ 0.8 W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥ 0.8 W/kg, repeat that measurement once.
 - (2) 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.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥ 1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20 .
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
 - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
 - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
6. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.

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7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
Maximum Scaling SAR = tested SAR (Max.) $\times$ [maximum turn-up power (mw)/ maximum measurement output power(mw)]
8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
9. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
10. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
11. Per KDB 941125 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
12. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
13. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is $>$ not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

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13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.2					
Product: Wireless Data Terminal									
Test Mode: GSM850 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card									
Body back	GPRS-2 slot	190	836.6	-0.15	0.333	30.60	30.41	0.348	1.6
Body front	GPRS-2 slot	128	824.2	0.26	0.789	30.60	30.55	0.798	1.6
Body front	GPRS-2 slot	190	836.6	-0.82	0.804	30.60	30.41	0.840	1.6
Body front	GPRS-2 slot	251	848.8	-0.33	0.820	30.60	30.33	0.873	1.6
Edge 1 (Top)	GPRS-2 slot	190	836.6	-0.52	0.130	30.60	30.41	0.136	1.6
Edge 2(Right)	GPRS-2 slot	128	824.2	0.79	1.072	30.60	30.55	1.084	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.28	1.040	30.60	30.41	1.087	1.6
Edge 2(Right)	GPRS-2 slot	251	848.8	-0.72	1.087	30.60	30.33	1.157	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.7					
Product: Wireless Data Terminal									
Test Mode: PCS1900 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card									
Body back	GPRS-2 slot	661	1880	-0.33	0.109	28.50	28.36	0.113	1.6
Body front	GPRS-2 slot	661	1880.0	-0.20	0.445	28.50	28.36	0.460	1.6
Edge 1 (Top)	GPRS-2 slot	661	1880.0	-0.23	0.023	28.50	28.36	0.024	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	0.20	0.429	28.50	28.36	0.443	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.7					
Product: Wireless Data Terminal									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	9400	1880	-0.33	0.159	22.00	21.67	0.172	1.6
Body front	RMC 12.2kbps	9400	1880	0.39	0.588	22.00	21.67	0.634	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-0.12	0.027	22.00	21.67	0.029	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.13	0.707	22.00	21.67	0.763	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 57.1				
Product: Wireless Data Terminal									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	8662	1732.4	-0.72	0.196	22.50	22.34	0.203	1.6
Body front	RMC 12.2kbps	8562	1712.4	0.70	1.004	22.50	22.31	1.049	1.6
Body front	RMC 12.2kbps	8662	1732.4	-0.30	1.003	22.50	22.34	1.041	1.6
Body front	RMC 12.2kbps	8763	1752.6	-0.36	0.994	22.50	21.24	1.329	1.6
Edge 1 (Top)	RMC 12.2kbps	8662	1732.4	0.60	0.047	22.50	22.34	0.049	1.6
Edge 2(Right)	RMC 12.2kbps	8562	1712.4	-0.59	1.055	22.50	22.31	1.102	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	-0.39	1.101	22.50	22.34	1.142	1.6
Edge 2(Right)	RMC 12.2kbps	8763	1752.6	0.27	1.030	22.50	21.24	1.377	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.2					
Product: Wireless Data Terminal									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	4183	836.4	-0.41	0.127	22.00	21.69	0.136	1.6
Body front	RMC 12.2kbps	4183	836.4	0.36	0.368	22.00	21.69	0.395	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.4	-0.44	0.059	22.00	21.69	0.063	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	0.67	0.643	22.00	21.69	0.691	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.7							
Product: Wireless Data Terminal												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	18900	1880	-0.13	0.186	24.40	24.02	0.203	1.6
		Body front	1	0	18700	1860	0.31	0.652	22.00	21.00	0.821	1.6
		Body front	1	0	18900	1880	-0.17	0.755	24.40	24.02	0.824	1.6
		Body front	1	0	19100	1900	-0.07	0.782	22.00	21.79	0.821	1.6
		Edge 1 (Top)	1	0	18900	1880	0.36	0.035	24.40	24.02	0.038	1.6
		Edge 2(Right)	1	0	18900	1880	-0.78	0.731	24.40	24.02	0.798	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 57.1						
Product: Wireless Data Terminal												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneu p Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	20175	1732.5	-0.41	0.139	24.00	23.19	0.167	1.6
		Body front	1	0	20175	1732.5	-0.10	0.316	24.00	23.19	0.381	1.6
		Edge 1 (Top)	1	0	20175	1732.5	-0.07	0.037	24.00	23.19	0.045	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.20	0.646	24.00	23.19	0.778	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.2							
Product: Wireless Data Terminal												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocati on	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	-0.02	0.129	19.00	18.31	0.151	1.6
		Body front	1	0	20525	836.5	0.04	0.372	19.00	18.31	0.436	1.6
		Edge 1 (Top)	1	0	20525	836.5	-0.09	0.051	19.00	18.31	0.060	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.03	0.402	19.00	18.31	0.471	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 47.9							
Product: Wireless Data Terminal												
Test Mode: LTE Band 7												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	21100	2535	-0.34	0.157	24.70	23.54	0.205	1.6
		Body front	1	0	21100	2535	0.09	0.032	24.70	23.54	0.042	1.6
		Edge 1 (Top)	1	0	21100	2535	-0.07	0.021	24.70	23.54	0.027	1.6
		Edge 2(Right)	1	0	21100	2535	-0.25	0.200	24.70	23.54	0.261	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 47.9							
Product: Wireless Data Terminal												
Test Mode: LTE Band 38												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	38000	2595	-0.19	0.092	20.00	19.26	0.109	1.6
		Body front	1	0	38000	2595	-0.28	0.062	20.00	19.26	0.074	1.6
		Edge 1 (Top)	1	0	38000	2595	0.26	0.044	20.00	19.26	0.052	1.6
		Edge 2(Right)	1	0	38000	2595	-0.22	0.339	20.00	19.26	0.402	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 60.8							
Product: Wireless Data Terminal												
Test Mode: LTE Band 40												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift ($\leq\pm 5\%$)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	39200	2355	-0.01	0.047	23.80	23.74	0.048	1.6
		Body front	1	0	39200	2355	0.36	0.086	23.80	23.74	0.087	1.6
		Edge 1 (Top)	1	0	39200	2355	-0.47	0.029	23.80	23.74	0.029	1.6
		Edge 2(Right)	1	0	39200	2355	-0.36	0.282	23.80	23.74	0.286	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 47.9						
Product: Wireless Data Terminal												
Test Mode: LTE Band 41												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift ($\leq \pm 5\%$)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	40620	2593	-0.06	0.074	20.00	19.73	0.079	1.6
		Body front	1	0	40620	2593	-0.31	0.083	20.00	19.73	0.088	1.6
		Edge 1 (Top)	1	0	40620	2593	-0.55	0.044	20.00	19.73	0.047	1.6
		Edge 2(Right)	1	0	40620	2593	0.69	0.315	20.00	19.73	0.335	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 57.3					
Product: Wireless Data Terminal									
Test Mode:802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	DTS	6	2437	-0.03	0.025	15.10	15.02	0.025	1.6
Body front	DTS	6	2437	0.31	0.203	15.10	15.02	0.207	1.6
Edge 4(Left)	DTS	6	2437	-0.29	0.160	15.10	15.02	0.163	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- The test separation for body back, body front and edge is 10mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.2				
Product: Wireless Data Terminal								
Test Mode: 5.2GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	40	5200	0.07	0.056	11.20	10.68	0.063	1.6
Body front	40	5200	-0.26	0.065	11.20	10.68	0.073	1.6
Edge 4(Left)	40	5200	0.32	0.067	11.20	10.68	0.076	1.6

Note:

- When the 1-g SAR is $\leq 0.8\text{W/kg}$, testing for low and high channel is optional.
- The test separation for body back, body front and edge is 10mm of all above table.
- Plots are only shown for the bold marked worst case SAR results

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 58.3				
Product: Wireless Data Terminal								
Test Mode: 5.3GHz-802.11ac(80)								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	58	5290	-0.28	0.054	11.00	10.84	0.056	1.6
Body front	58	5290	0.03	0.063	11.00	10.84	0.065	1.6
Edge 4 (Left)	58	5290	-0.06	0.077	11.00	10.84	0.080	1.6

Note:

- When the 1-g SAR is $\leq 0.8\text{W/kg}$, testing for low and high channel is optional.
- The test separation for body back, body front and edge is 10mm of all above table.
- Plots are only shown for the bold marked worst case SAR results

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 62.2				
Product: Wireless Data Terminal								
Test Mode: 5.8GHz WIFI 802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	157	5785	-0.07	0.071	8.00	7.43	0.081	1.6
Body front	157	5785	-0.31	0.069	8.00	7.43	0.079	1.6
Edge 4(Left)	157	5785	0.05	0.070	8.00	7.43	0.080	1.6

Note:

- When the 1-g SAR is $\leq 0.8\text{W/kg}$, testing for low and high channel is optional.
- The test separation for body back, body front and edge is 10mm of all above table.
- Plots are only shown for the bold marked worst case SAR results

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Repeated SAR											
Product: Wireless Data Terminal											
Test Mode: GSM850& WCDMA Band IV& LTE Band 2											
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Edge 2(Right)	GPRS-2 slot		251	848.8	-0.12	1.058	--	--	--	--	1.6
Edge 2(Right)	RMC 12.2kbps		8662	1732.4	0.06	1.059	--	--	--	--	1.6
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
	UL RB Allocation	UL RB START									
Body front	1	0	19100	1900	0.13	0.703	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: Wireless Data Terminal									
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Edge 2(Right)	GPRS-2 slot		251	848.8	1.087	1.058	1.027	<1.2
WCDMA Band IV	Edge 2(Right)	RMC 12.2kbps		8662	1732.4	1.101	1.059	1.040	<1.2
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 2	Body front	1	0	19100	1900	0.782	0.703	1.112	<1.2

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Simultaneous Multi-band Transmission Evaluation: Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset	
		Body-worn	Hotspot
1	GSM (Data) + WLAN 2.4GHz &5GHz(data)	Yes	Yes
2	GSM (Data) + Bluetooth(data)	Yes	Yes
3	WCDMA+ WLAN 2.4GHz &5GHz(data)	Yes	Yes
4	WCDMA+ Bluetooth(data)	Yes	Yes
5	LTE + WLAN 2.4GHz &5GHz(data)	Yes	Yes
6	LTE + Bluetooth(data)	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 10mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation³¹
 - The result is rounded to one decimal place for comparison
 - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is < 5 mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
 - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
 - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
 - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
 - (4) When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$$
for test separation distances ≤ 50 mm;
where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by $(SAR1 + SAR2)1.5/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Body	6	3.981	10	0.083

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Sum of the SAR for GSM 850 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	Wi-Fi DTS Band	Bluetooth		
Body-worn (Data)	Rear	0.348		0.083	0.431	No
		0.348	0.025		0.373	No
	Front	0.873		0.083	0.956	No
		0.873	0.207		1.080	No
Body-worn (Hotspot)	Edge 1	0.136	--		0.136	No
	Edge 2	1.157	--		1.157	No
	Edge 4	--	0.163		0.163	No
	Edge 1	0.136		0.083	0.219	No
	Edge 2	1.157		0.083	1.240	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn (Data)	Rear	0.348		0.056	0.404	No
		0.348	0.063		0.411	No
	Front	0.873		0.065	0.938	No
		0.873	0.073		0.946	No
Body-worn (Hotspot)	Edge 1	0.136	--		0.136	No
	Edge 2	1.157	--		1.157	No
	Edge 4	--	0.076		0.076	No
	Edge 1	0.136		--	0.136	No
	Edge 2	1.157		--	1.157	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		GSM 850	5.8G Wi-Fi Band			
Body-worn (Data)	Rear	0.348	0.081	0.485	No	
	Front	0.873	0.079	0.952	No	
Body-worn (Hotspot)	Edge 1	0.136	--	0.136	No	
	Edge 2	1.157	--	1.157	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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Sum of the SAR for GSM 1900 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	Wi-Fi DTS Band	Bluetooth		
Body-worn (Data)	Rear	0.113		0.083	0.196	No
		0.113	0.025		0.138	No
	Front	0.460		0.083	0.543	No
		0.460	0.207		0.667	No
Body-worn (Hotspot)	Edge 1	0.024	--		0.024	No
	Edge 2	0.443	--		0.443	No
	Edge 4	--	0.163		0.163	No
	Edge 1	0.024		0.083	0.107	No
	Edge 2	0.443		0.083	0.526	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn (Data)	Rear	0.113		0.056	0.169	No
		0.113	0.063		0.176	No
	Front	0.460		0.065	0.525	No
		0.460	0.073		0.533	No
Body-worn (Hotspot)	Edge 1	0.024	--		0.024	No
	Edge 2	0.443	--		0.443	No
	Edge 4	--	0.076		0.076	No
	Edge 1	0.024		--	0.024	No
	Edge 2	0.443		--	0.443	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.8G Wi-Fi Band			
Body-worn (Data)	Rear	0.113	0.081		0.250	No
	Front	0.460	0.079		0.539	No
Body-worn (Hotspot)	Edge 1	0.024	--		0.024	No
	Edge 2	0.443	--		0.443	No
	Edge 4	--	0.080		0.080	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for WCDMA Band II & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.172	0.025		0.197	No
	Front	0.634	0.207		0.841	No
	Edge 1	0.029	--		0.029	No
	Edge 2	0.763	--		0.763	No
	Edge 4	--	0.163		0.163	No
	Rear	0.172		0.083	0.255	No
	Front	0.634		0.083	0.717	No
	Edge 1	0.029		0.083	0.112	No
	Edge 2	0.763		0.083	0.846	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.172	0.063		0.235	No
	Front	0.634	0.073		0.707	No
	Edge 1	0.029	--		0.029	No
	Edge 2	0.763	--		0.763	No
	Edge 4	--	0.076		0.076	No
	Rear	0.172		0.056	0.228	No
	Front	0.634		0.065	0.699	No
	Edge 1	0.029		--	0.029	No
	Edge 2	0.763		--	0.763	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		WCDMA Band II	5.8G Wi-Fi Band			
Body-worn	Rear	0.172	0.081	0.253	No	
	Front	0.634	0.079	0.713	No	
	Edge 1	0.029	--	0.029	No	
	Edge 2	0.763	--	0.763	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for WCDMA Band IV & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.203	0.025		0.228	No
	Front	1.329	0.207		1.536	No
	Edge 1	0.049	--		0.049	No
	Edge 2	1.377	--		1.377	No
	Edge 4	--	0.163		0.163	No
	Rear	0.203		0.083	0.286	No
	Front	1.329		0.083	1.412	No
	Edge 1	0.049		0.083	0.132	No
	Edge 2	1.377		0.083	1.460	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.203	0.063		0.266	No
	Front	1.329	0.073		1.402	No
	Edge 1	0.049	--		0.049	No
	Edge 2	1.377	--		1.377	No
	Edge 4	--	0.076		0.076	No
	Rear	0.203		0.056	0.259	No
	Front	1.329		0.065	1.394	No
	Edge 1	0.049		--	0.049	No
	Edge 2	1.377		--	1.377	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		WCDMA Band IV	5.8G Wi-Fi Band			
Body-worn	Rear	0.203	0.081	0.284	No	
	Front	1.329	0.079	1.408	No	
	Edge 1	0.049	--	0.049	No	
	Edge 2	1.377	--	1.377	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for WCDMA Band V & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.136	0.025		0.161	No
	Front	0.395	0.207		0.602	No
	Edge 1	0.063	--		0.063	No
	Edge 2	0.691	--		0.691	No
	Edge 4	--	0.163		0.163	No
	Rear	0.136		0.083	0.219	No
	Front	0.395		0.083	0.478	No
	Edge 1	0.063		0.083	0.146	No
	Edge 2	0.691		0.083	0.774	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.136	0.063		0.199	No
	Front	0.395	0.073		0.468	No
	Edge 1	0.063	--		0.063	No
	Edge 2	0.691	--		0.691	No
	Edge 4	--	0.076		0.076	No
	Rear	0.136		0.056	0.192	No
	Front	0.395		0.065	0.460	No
	Edge 1	0.063		--	0.063	No
	Edge 2	0.691		--	0.691	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		WCDMA Band V	5.8G Wi-Fi Band			
Body-worn	Rear	0.136	0.081	0.217	No	
	Front	0.395	0.079	0.474	No	
	Edge 1	0.063	--	0.063	No	
	Edge 2	0.691	--	0.691	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 2 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.203	0.025		0.228	No
	Front	0.824	0.207		1.031	No
	Edge 1	0.038	--		0.038	No
	Edge 2	0.798	--		0.798	No
	Edge 4	--	0.163		0.163	No
	Rear	0.203		0.083	0.286	No
	Front	0.824		0.083	0.907	No
	Edge 1	0.038		0.083	0.121	No
	Edge 2	0.798		0.083	0.881	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.203	0.063		0.266	No
	Front	0.824	0.073		0.897	No
	Edge 1	0.038	--		0.038	No
	Edge 2	0.798	--		0.798	No
	Edge 4	--	0.076		0.076	No
	Rear	0.203		0.056	0.259	No
	Front	0.824		0.065	0.889	No
	Edge 1	0.038		--	0.038	No
	Edge 2	0.798		--	0.798	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 2	5.8G Wi-Fi Band			
Body-worn	Rear	0.203	0.081		0.284	No
	Front	0.824	0.079		0.903	No
	Edge 1	0.038	--		0.038	No
	Edge 2	0.798	--		0.798	No
	Edge 4	--	0.080		0.080	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 4 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.167	0.025		0.192	No
	Front	0.381	0.207		0.588	No
	Edge 1	0.045	--		0.045	No
	Edge 2	0.778	--		0.778	No
	Edge 4	--	0.163		0.163	No
	Rear	0.167		0.083	0.250	No
	Front	0.381		0.083	0.464	No
	Edge 1	0.045		0.083	0.128	No
	Edge 2	0.778		0.083	0.861	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.167	0.063		0.230	No
	Front	0.381	0.073		0.454	No
	Edge 1	0.045	--		0.045	No
	Edge 2	0.778	--		0.778	No
	Edge 4	--	0.076		0.076	No
	Rear	0.167		0.056	0.223	No
	Front	0.381		0.065	0.446	No
	Edge 1	0.045		--	0.045	No
	Edge 2	0.778		--	0.778	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 4	5.8G Wi-Fi Band			
Body-worn	Rear	0.167	0.081	0.248	No	
	Front	0.381	0.079	0.460	No	
	Edge 1	0.045	--	0.045	No	
	Edge 2	0.778	--	0.778	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 5 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.151	0.025		0.176	No
	Front	0.436	0.207		0.643	No
	Edge 1	0.060	--		0.060	No
	Edge 2	0.471	--		0.471	No
	Edge 4	--	0.163		0.163	No
	Rear	0.151		0.083	0.234	No
	Front	0.436		0.083	0.519	No
	Edge 1	0.060		0.083	0.143	No
	Edge 2	0.471		0.083	0.554	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.151	0.063		0.214	No
	Front	0.436	0.073		0.509	No
	Edge 1	0.060	--		0.060	No
	Edge 2	0.471	--		0.471	No
	Edge 4	--	0.076		0.076	No
	Rear	0.151		0.056	0.207	No
	Front	0.436		0.065	0.501	No
	Edge 1	0.060		--	0.060	No
	Edge 2	0.471		--	0.471	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 5	5.8G Wi-Fi Band			
Body-worn	Rear	0.151	0.081	0.232	No	
	Front	0.436	0.079	0.515	No	
	Edge 1	0.060	--	0.060	No	
	Edge 2	0.471	--	0.471	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 7 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.205	0.025		0.230	No
	Front	0.042	0.207		0.249	No
	Edge 1	0.027	--		0.027	No
	Edge 2	0.261	--		0.261	No
	Edge 4	--	0.163		0.163	No
	Rear	0.205		0.083	0.288	No
	Front	0.042		0.083	0.125	No
	Edge 1	0.027		0.083	0.110	No
	Edge 2	0.261		0.083	0.344	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.205	0.063		0.268	No
	Front	0.042	0.073		0.115	No
	Edge 1	0.027	--		0.027	No
	Edge 2	0.261	--		0.261	No
	Edge 4	--	0.076		0.076	No
	Rear	0.205		0.056	0.261	No
	Front	0.042		0.065	0.107	No
	Edge 1	0.027		--	0.027	No
	Edge 2	0.261		--	0.261	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 7	5.8G Wi-Fi Band			
Body-worn	Rear	0.205	0.081	0.286	No	
	Front	0.042	0.079	0.121	No	
	Edge 1	0.027	--	0.027	No	
	Edge 2	0.261	--	0.261	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 38 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.109	0.025		0.134	No
	Front	0.074	0.207		0.281	No
	Edge 1	0.052	--		0.052	No
	Edge 2	0.402	--		0.402	No
	Edge 4	--	0.163		0.163	No
	Rear	0.109		0.083	0.192	No
	Front	0.074		0.083	0.157	No
	Edge 1	0.052		0.083	0.135	No
	Edge 2	0.402		0.083	0.485	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.109	0.063		0.172	No
	Front	0.074	0.073		0.147	No
	Edge 1	0.052	--		0.052	No
	Edge 2	0.402	--		0.402	No
	Edge 4	--	0.076		0.076	No
	Rear	0.109		0.056	0.165	No
	Front	0.074		0.065	0.139	No
	Edge 1	0.052		--	0.052	No
	Edge 2	0.402		--	0.402	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 38	5.8G Wi-Fi Band			
Body-worn	Rear	0.109	0.081	0.190	No	
	Front	0.074	0.079	0.153	No	
	Edge 1	0.052	--	0.052	No	
	Edge 2	0.402	--	0.402	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 40 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.048	0.025		0.073	No
	Front	0.087	0.207		0.294	No
	Edge 1	0.029	--		0.029	No
	Edge 2	0.286	--		0.286	No
	Edge 4	--	0.163		0.163	No
	Rear	0.048		0.083	0.131	No
	Front	0.087		0.083	0.170	No
	Edge 1	0.029		0.083	0.112	No
	Edge 2	0.286		0.083	0.369	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.048	0.063		0.111	No
	Front	0.087	0.073		0.160	No
	Edge 1	0.029	--		0.029	No
	Edge 2	0.286	--		0.286	No
	Edge 4	--	0.076		0.076	No
	Rear	0.048		0.056	0.104	No
	Front	0.087		0.065	0.152	No
	Edge 1	0.029		--	0.029	No
	Edge 2	0.286		--	0.286	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Simultaneous Transmission Scenario	SPLSR (Yes/No)	
		LTE Band 40	5.8G Wi-Fi Band			
Body-worn	Rear	0.048	0.081	0.129	No	
	Front	0.087	0.079	0.166	No	
	Edge 1	0.029	--	0.029	No	
	Edge 2	0.286	--	0.286	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for LTE Band 41 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.079	0.025		0.104	No
	Front	0.088	0.207		0.295	No
	Edge 1	0.047	--		0.047	No
	Edge 2	0.335	--		0.335	No
	Edge 4	--	0.163		0.163	No
	Rear	0.079		0.083	0.162	No
	Front	0.088		0.083	0.171	No
	Edge 1	0.047		0.083	0.130	No
	Edge 2	0.335		0.083	0.418	No
	Edge 4	--		0.083	0.083	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.2G Wi-Fi Band	5.3G Wi-Fi Band		
Body-worn	Rear	0.079	0.063		0.142	No
	Front	0.088	0.073		0.161	No
	Edge 1	0.047	--		0.047	No
	Edge 2	0.335	--		0.335	No
	Edge 4	--	0.076		0.076	No
	Rear	0.079		0.056	0.135	No
	Front	0.088		0.065	0.153	No
	Edge 1	0.047		--	0.047	No
	Edge 2	0.335		--	0.335	No
	Edge 4	--		0.080	0.080	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)	
		LTE Band 41	5.8G Wi-Fi Band			
Body-worn	Rear	0.079	0.081	0.160	No	
	Front	0.088	0.079	0.167	No	
	Edge 1	0.047	--	0.047	No	
	Edge 2	0.335	--	0.335	No	
	Edge 4	--	0.080	0.080	No	

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Aug. 09, 2023

System Check Head 835 MHz

DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.85

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.18$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

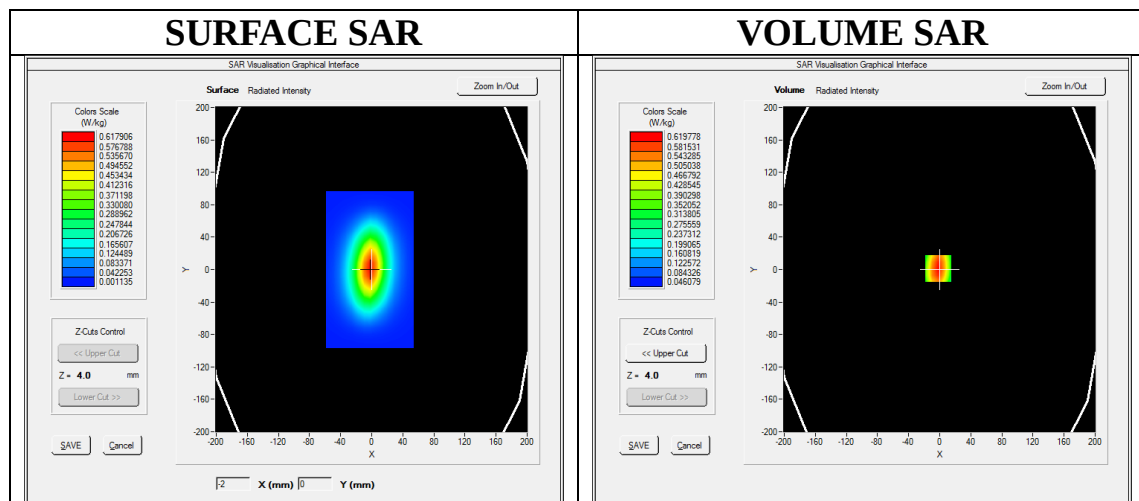
Ambient temperature (°C):21.0, Liquid temperature (°C): 20.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=1.00

SAR Peak: 0.88 W/kg

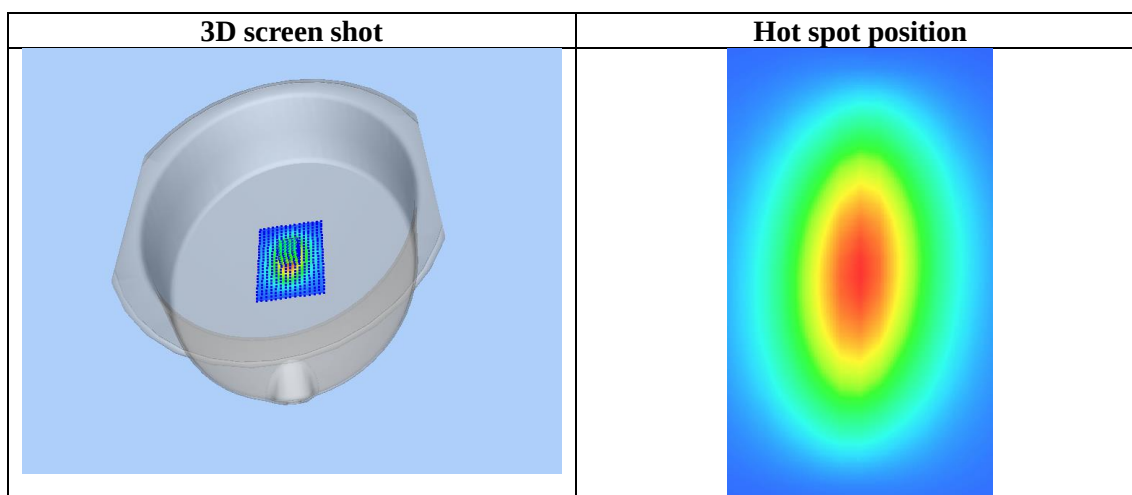
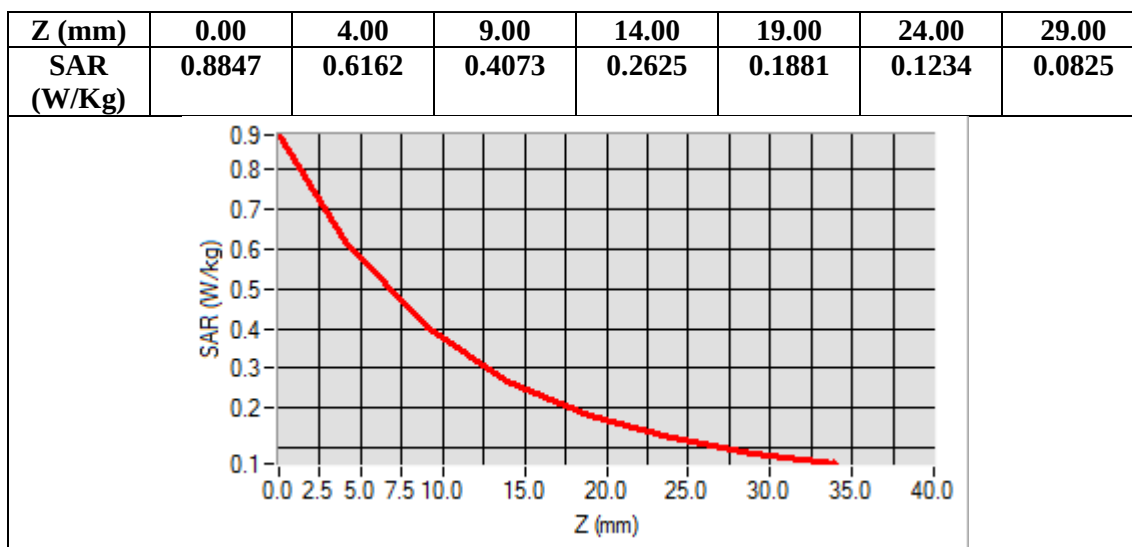
SAR 10g (W/Kg)	0.379826
SAR 1g (W/Kg)	0.593694

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Test Laboratory: AGC Lab
System Check Head 1750MHz

Date: Aug. 19, 2023

DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.39
Frequency: 1750 MHz; Medium parameters used: $f = 1750\text{MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 41.07$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.7

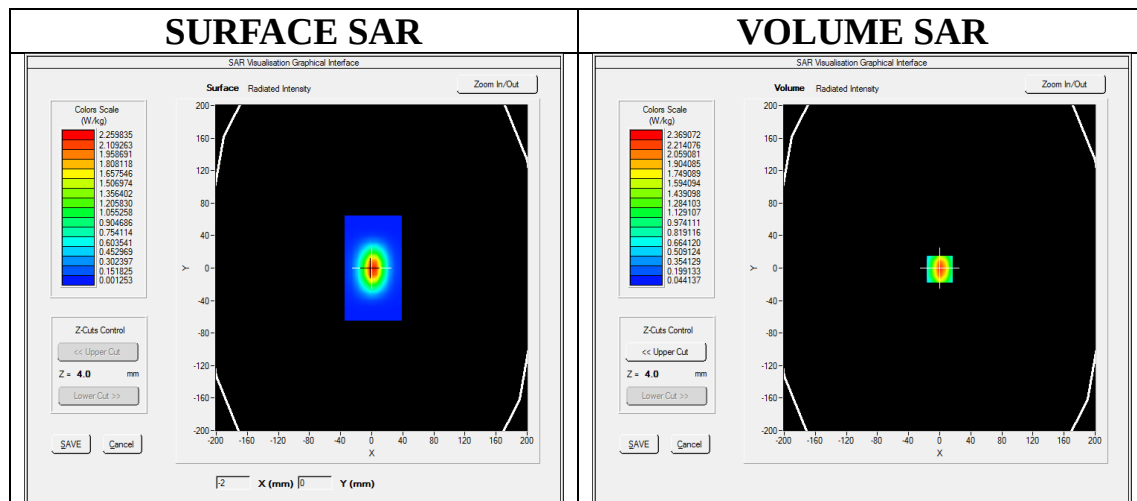
SATIMO Configuration:

Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=0.00, Y=-1.00

SAR Peak: 3.72 W/kg

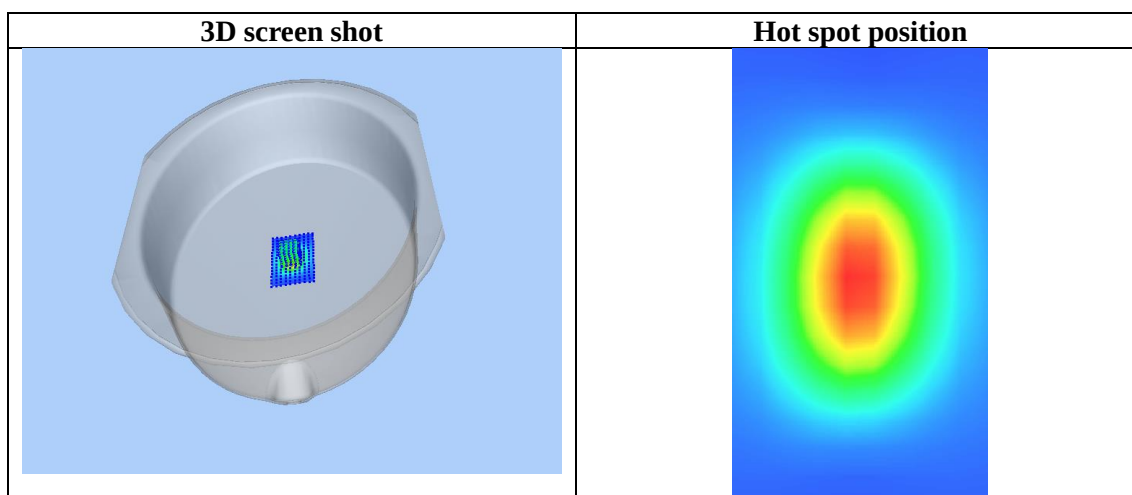
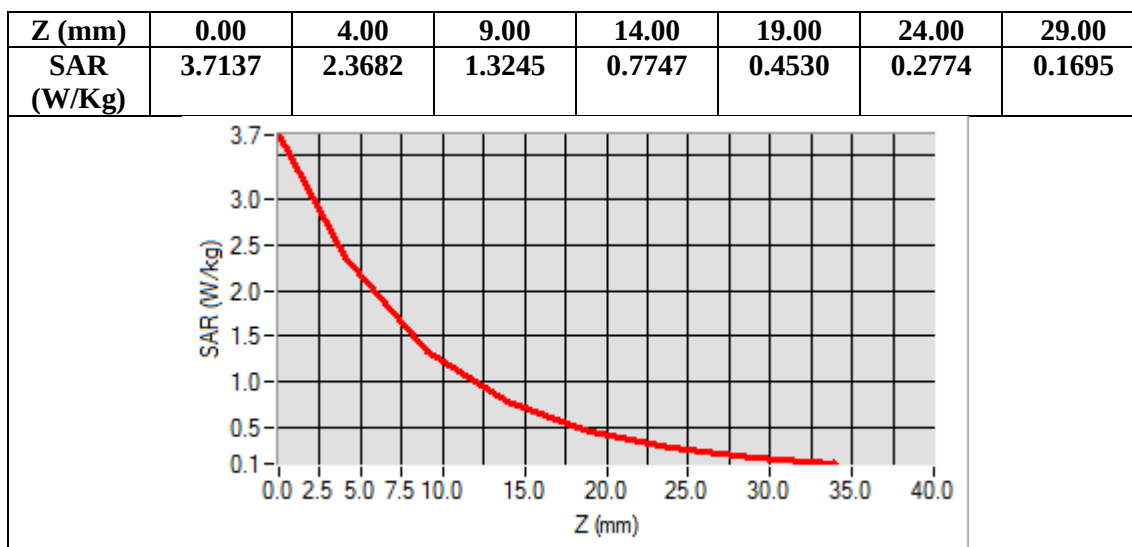
SAR 10g (W/Kg)	1.217152
SAR 1g (W/Kg)	2.238245

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Test Laboratory: AGC Lab
System Check Head 1900MHz

Date: Aug. 20, 2023

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.32
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.13$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):20.9, Liquid temperature (°C): 20.3

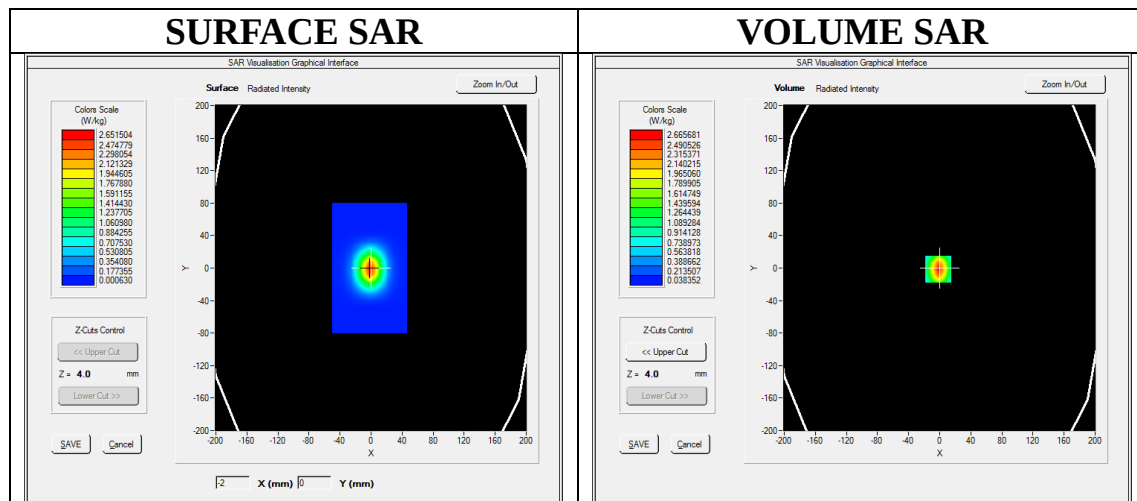
SATIMO Configuration:

Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=-1.00

SAR Peak: 4.27 W/kg

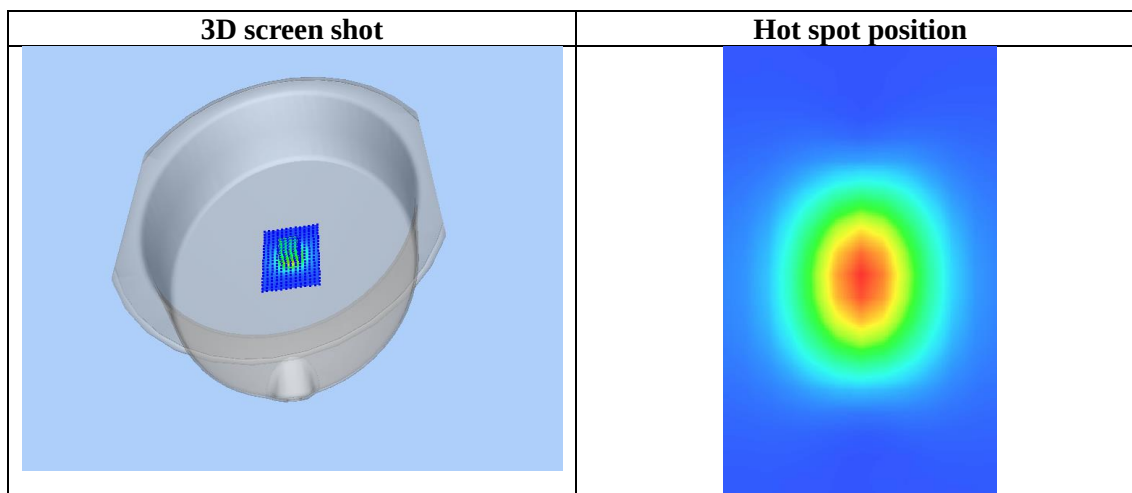
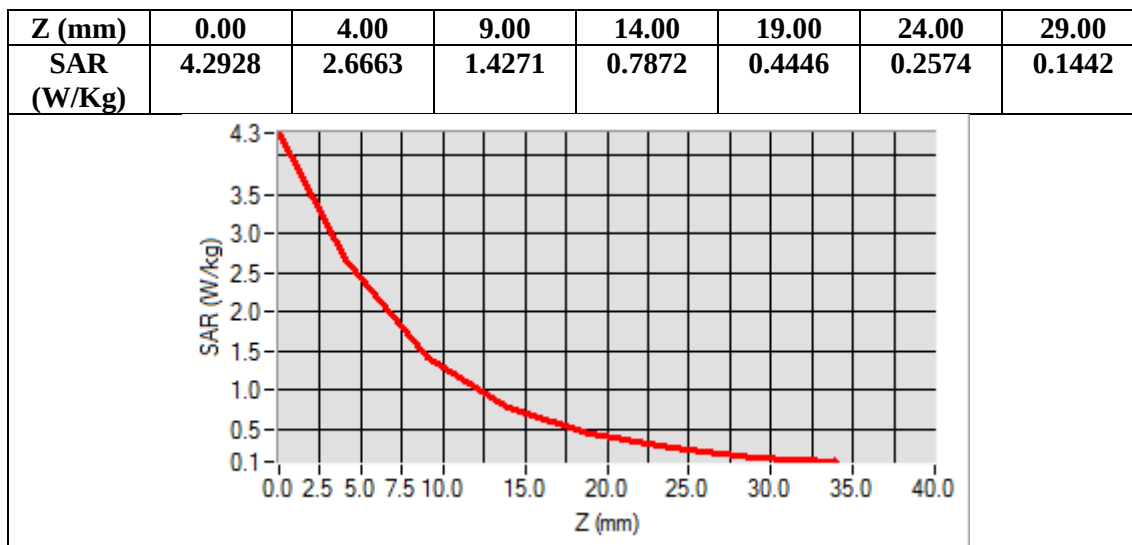
SAR 10g (W/Kg)	1.326924
SAR 1g (W/Kg)	2.517250

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Test Laboratory: AGC Lab
System Check Head 2300 MHz

Date: Aug. 16, 2023

DUT: Dipole 2300 MHz Type: SID 2300

Communication System CW; Communication System Band: D2300 (2300.0 MHz); Duty Cycle: 1:1; Conv.F=2.23
Frequency: 2300 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.68$ mho/m; $\epsilon_r = 38.70$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

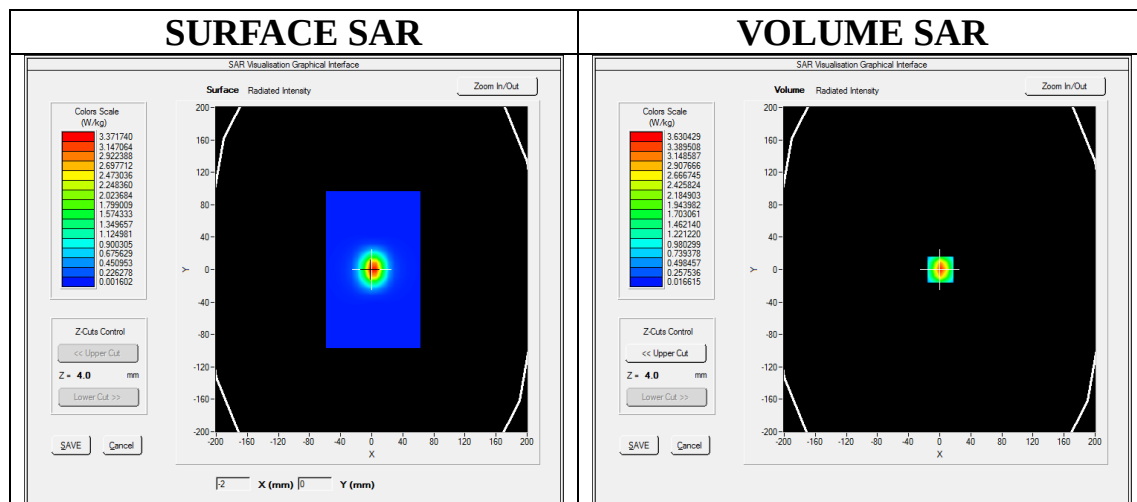
Ambient temperature (°C): 21.4, Liquid temperature (°C): 20.8

SATIMO Configuration

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2300MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2300MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=1.00, Y=0.00

SAR Peak: 6.23 W/kg

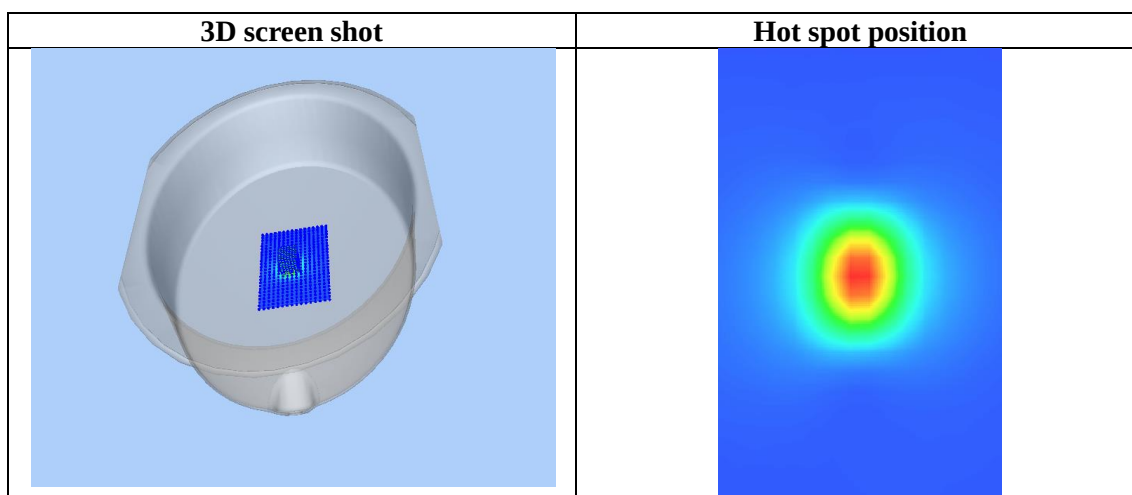
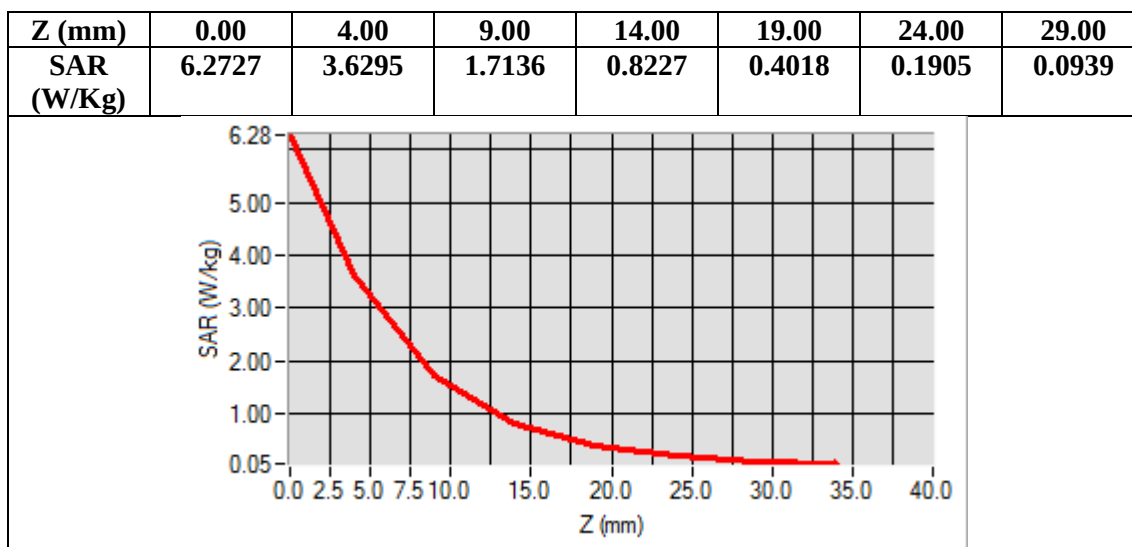
SAR 10g (W/Kg)	1.521084
SAR 1g (W/Kg)	3.373483

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Test Laboratory: AGC Lab

Date: Aug. 15, 2023

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.34
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.14$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

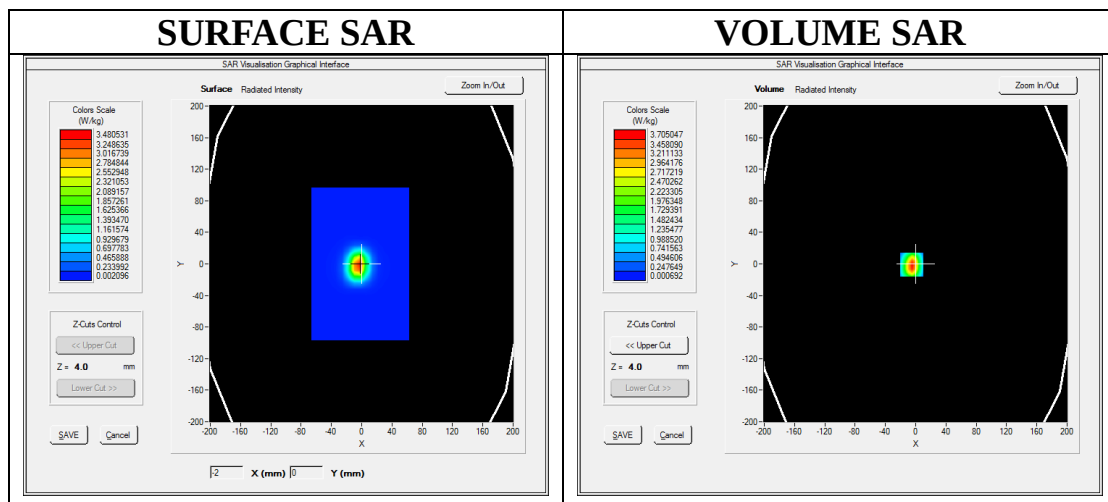
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.4

SATIMO Configuration

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=-5.00, Y=-1.00

SAR Peak: 7.60 W/kg

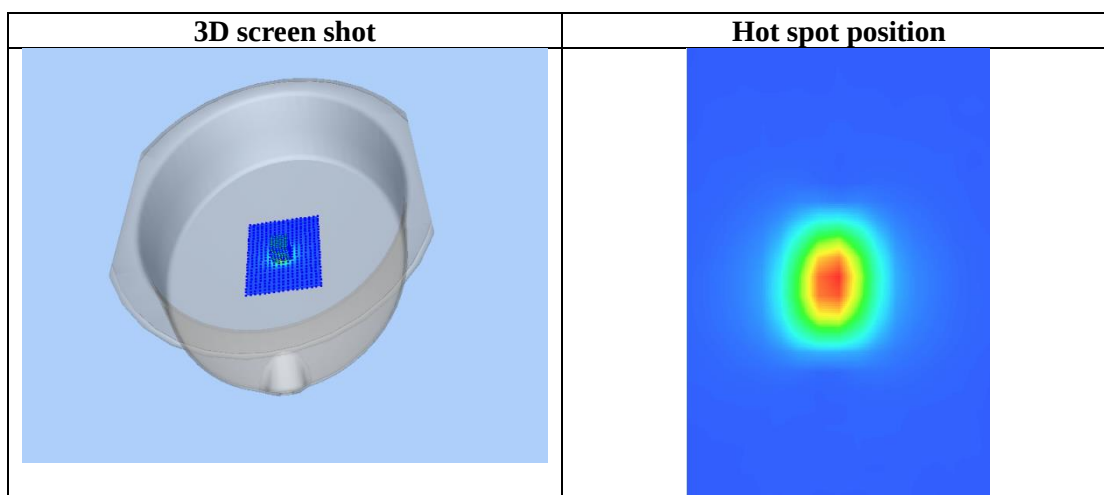
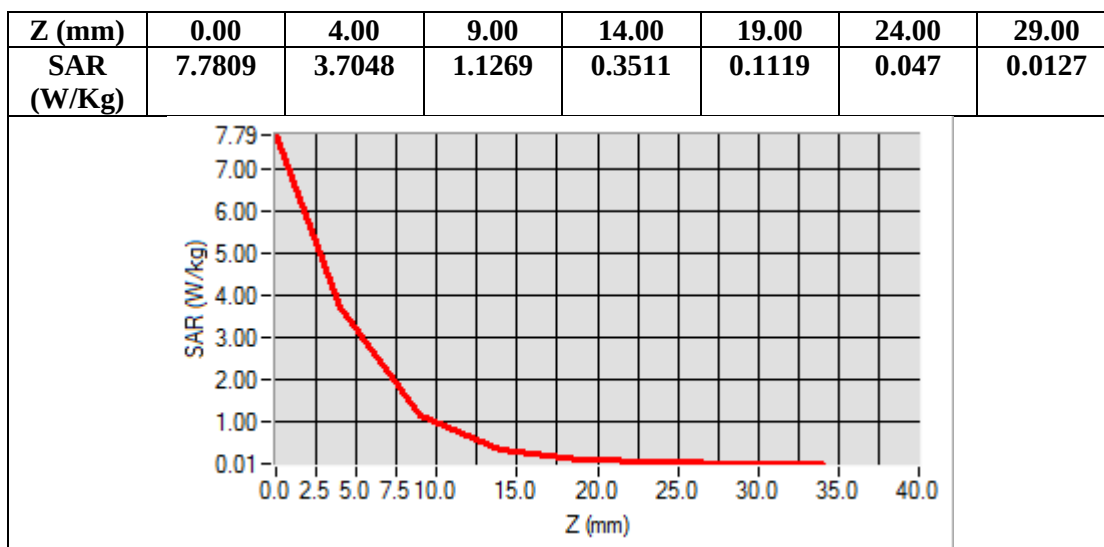
SAR 10g (W/Kg)	1.393488
SAR 1g (W/Kg)	3.476754

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Test Laboratory: AGC Lab
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600

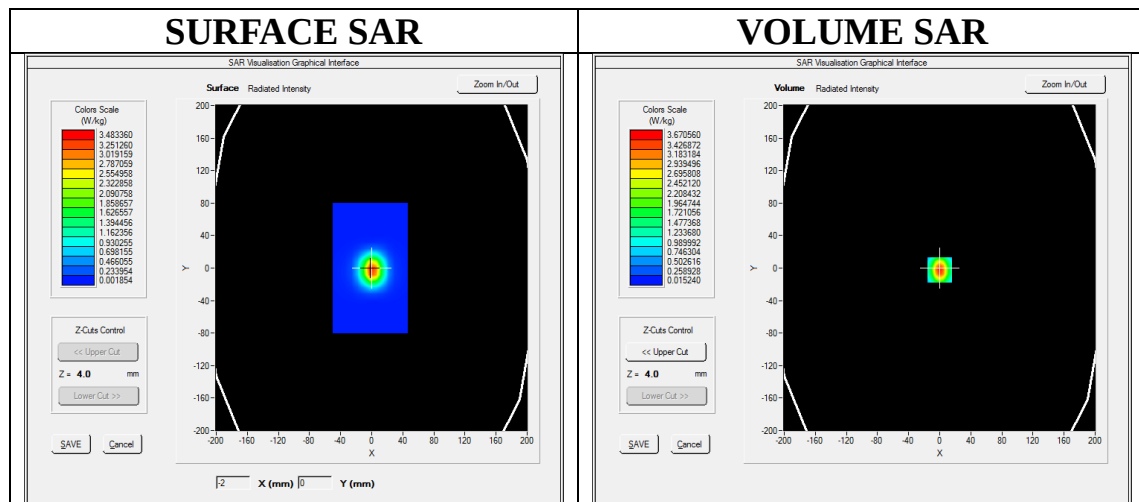
Date: Aug. 14, 2023

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.29
Frequency: 2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 38.13$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

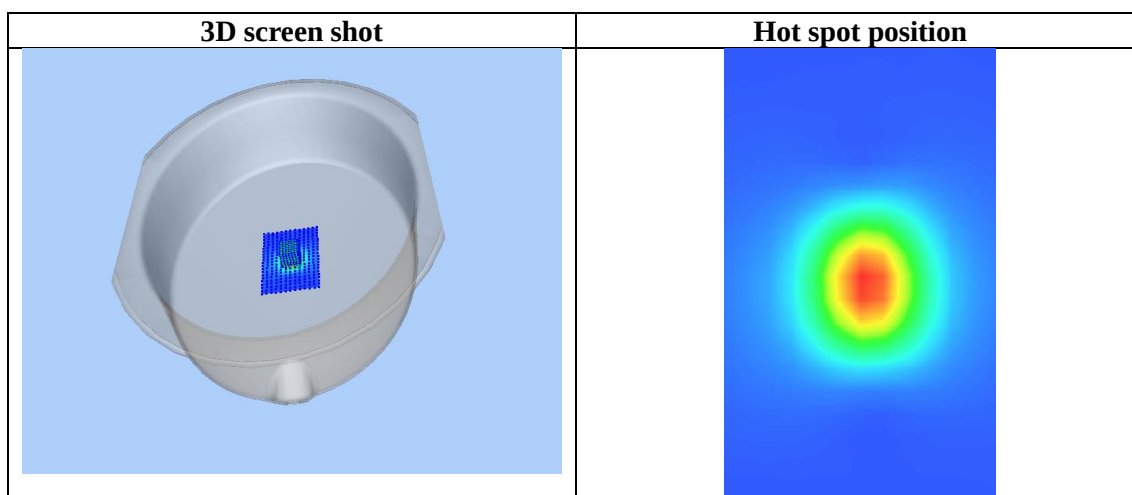
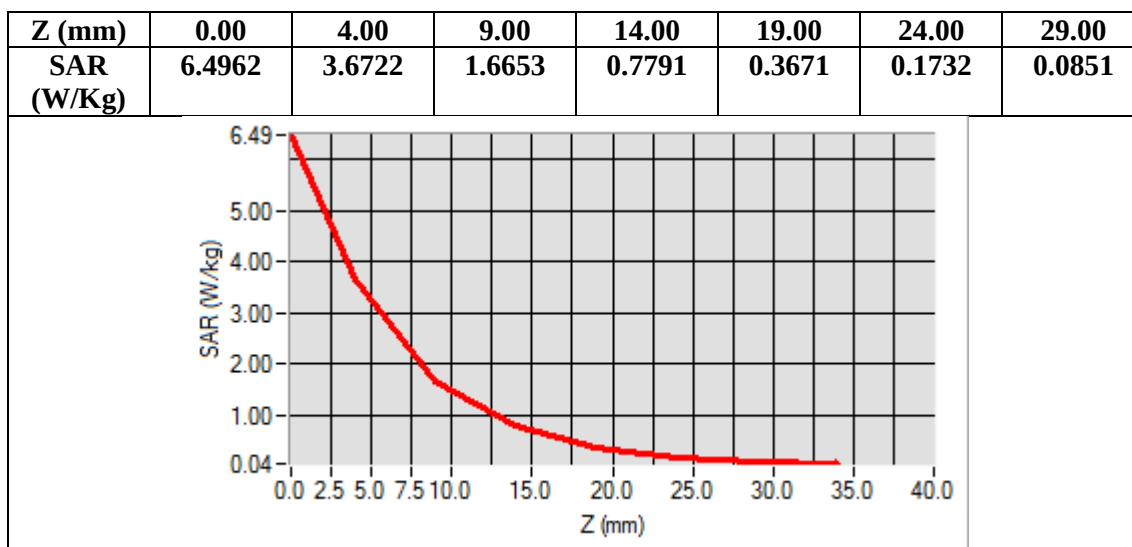


Maximum location: X=0.00, Y=-2.00
SAR Peak: 6.40 W/kg

SAR 10g (W/Kg)	1.516713
SAR 1g (W/Kg)	3.376586

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Test Laboratory: AGC Lab

Date: Aug. 26, 2023

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.20
Frequency: 5200 MHz; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.61$ mho/m; $\epsilon_r = 35.83$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

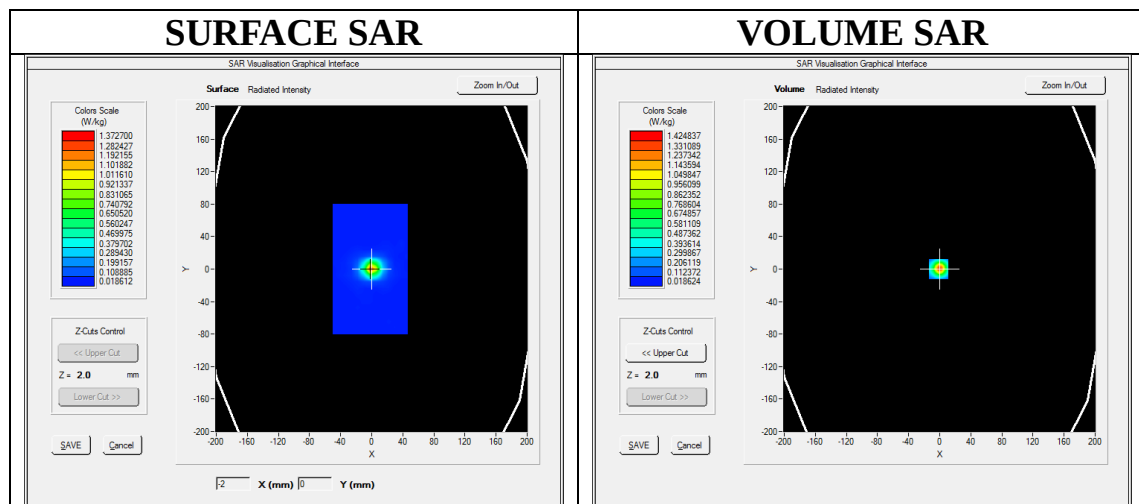
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



Maximum location: X=-1.00, Y=0.00

SAR Peak: 2.52 W/kg

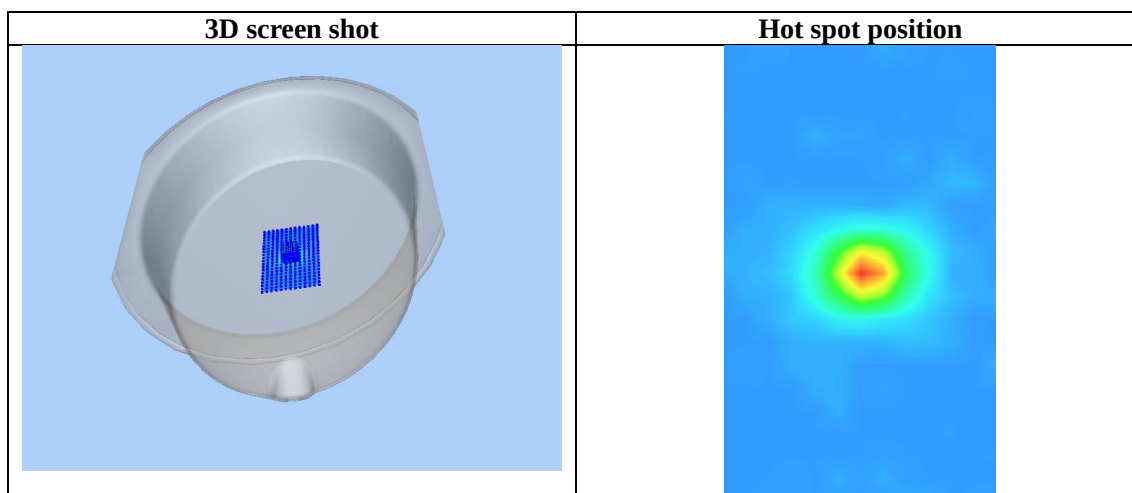
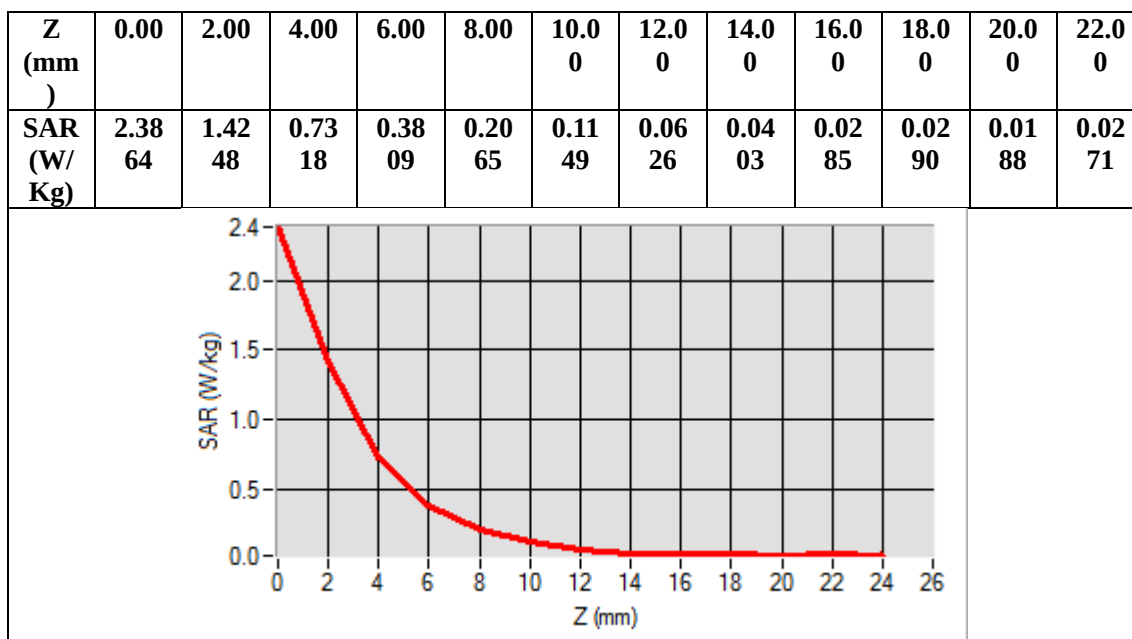
SAR 10g (W/Kg)	0.229894
SAR 1g (W/Kg)	0.748294

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Test Laboratory: AGC Lab
System Check Head 5300 MHz
DUT: Dipole 5000MHz Type: SID5000

Date: Aug. 27, 2023

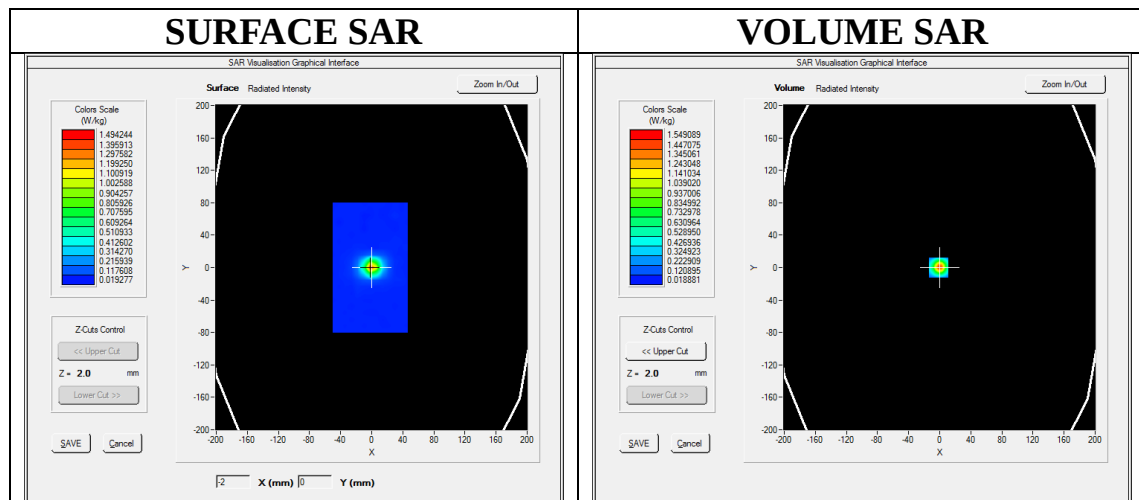
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.20
Frequency: 5300 MHz; Medium parameters used: $f = 5300$ MHz; $\sigma = 4.77$ mho/m; $\epsilon_r = 34.95$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 5300 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5300 MHz Head/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



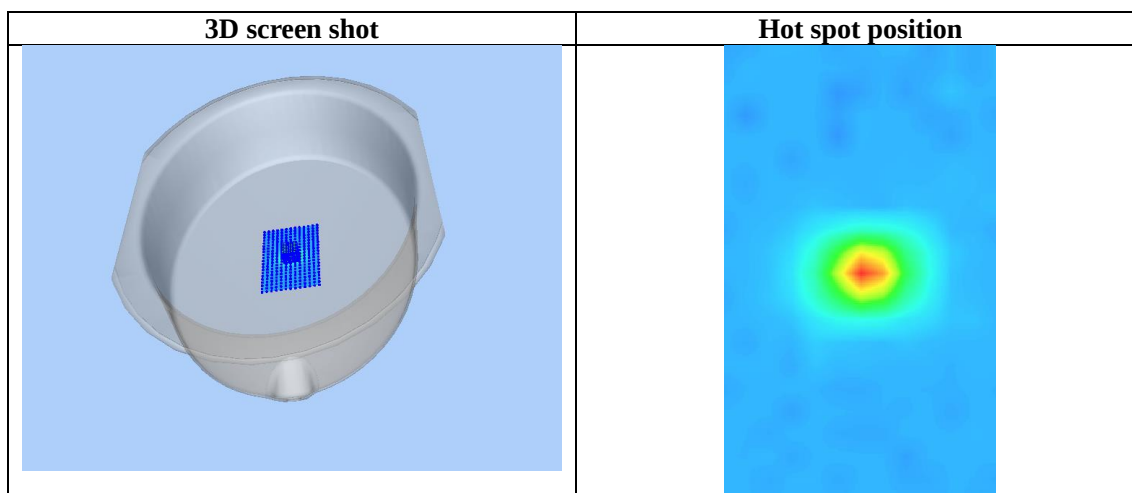
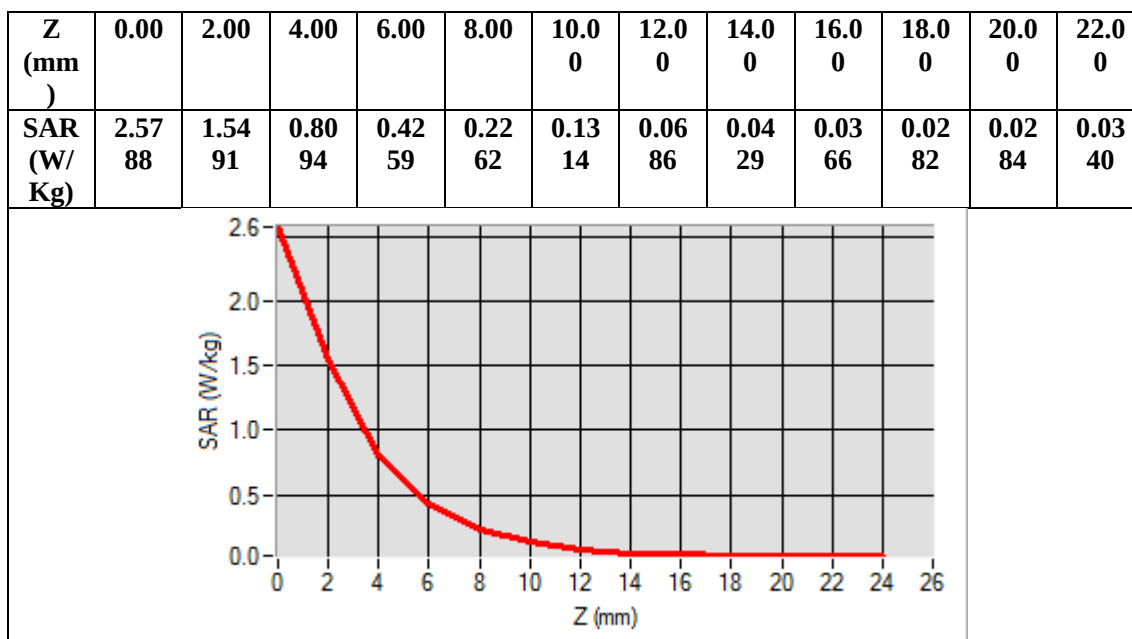
Maximum location: X=-1.00, Y=0.00

SAR Peak: 2.71 W/kg

SAR 10g (W/Kg)	0.256586
SAR 1g (W/Kg)	0.818061

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Test Laboratory: AGC Lab
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5500

Date: Aug. 28, 2023

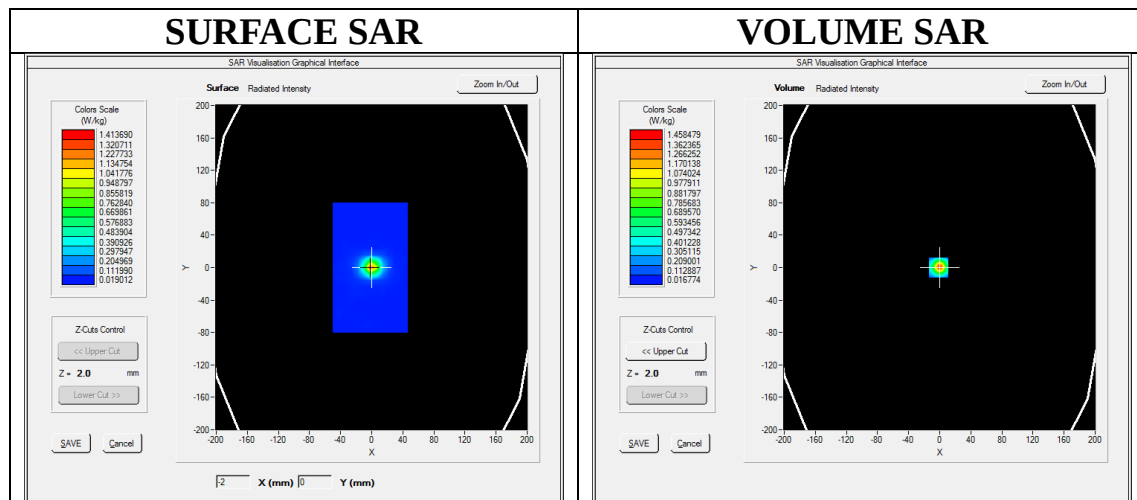
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.85
Frequency: 5800 MHz; Medium parameters used: $f = 5800$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 35.42$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



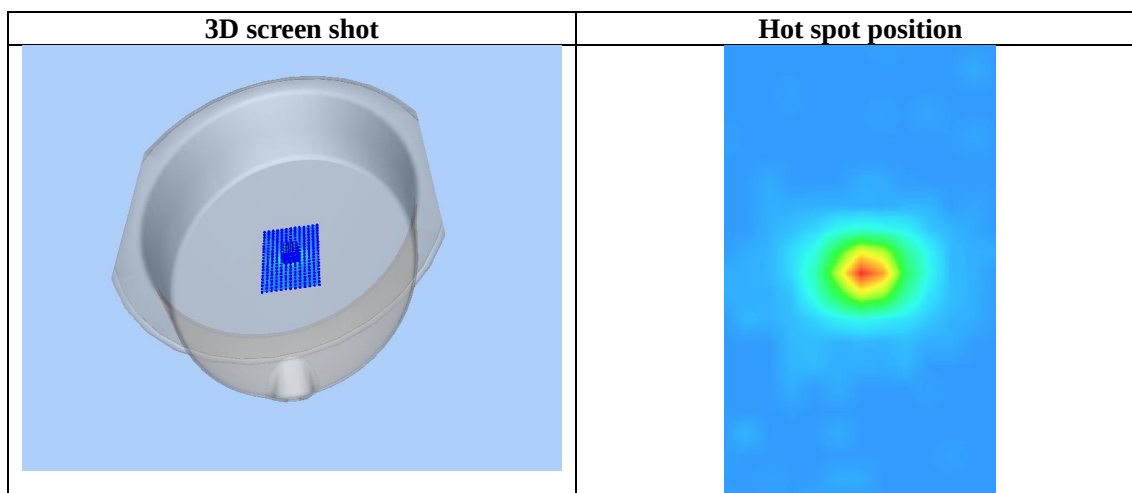
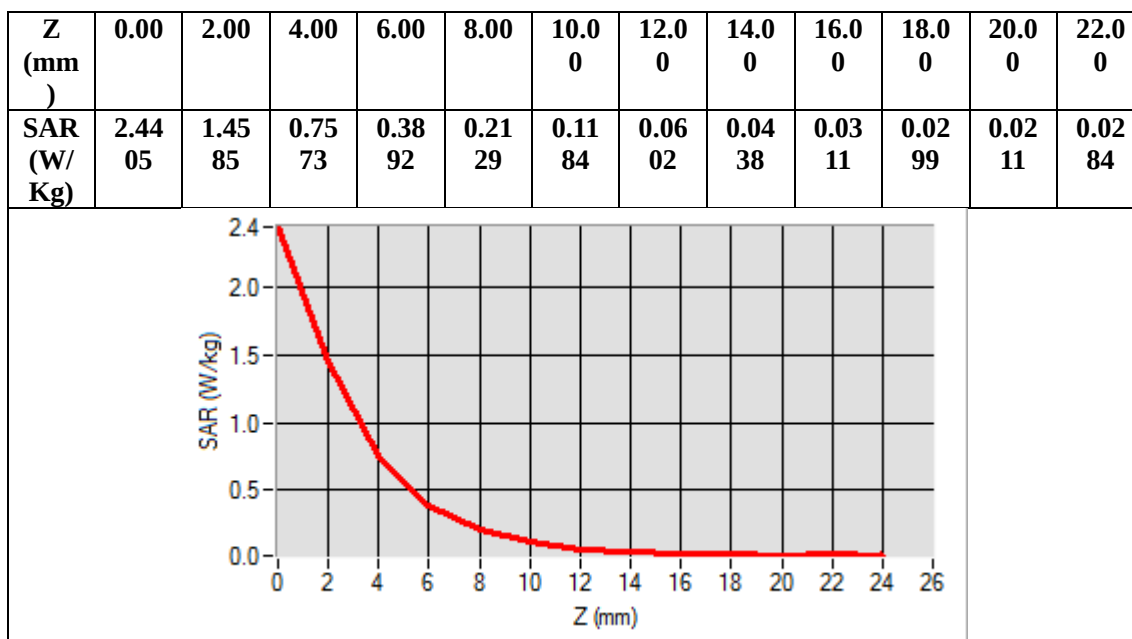
Maximum location: X=-1.00, Y=0.00

SAR Peak: 2.56 W/kg

SAR 10g (W/Kg)	0.236346
SAR 1g (W/Kg)	0.765705

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Aug. 09, 2023

GPRS 850 High-Edge 2 (2up)

DUT: Wireless Data Terminal ; Type: H10

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.85;
Frequency: 848.8 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 38.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.4

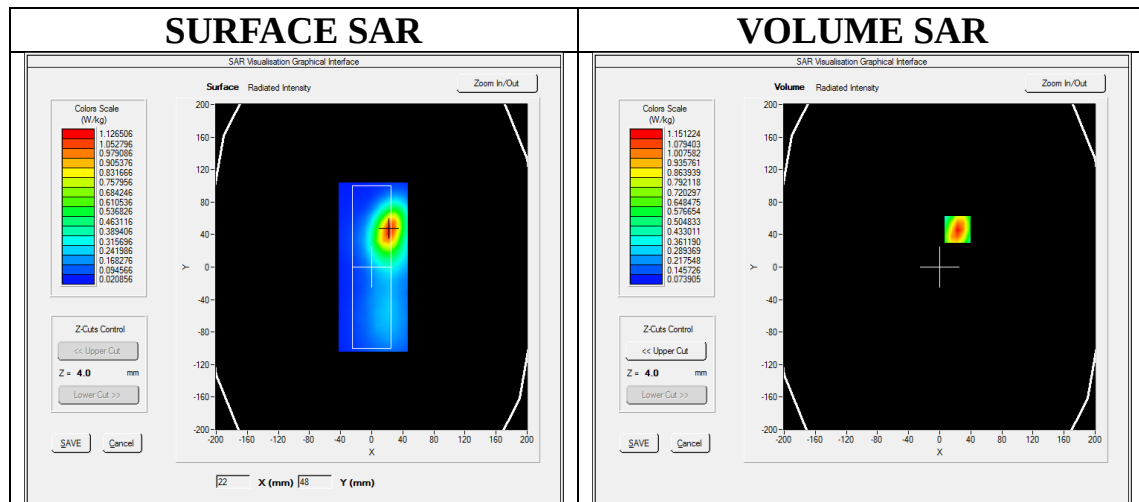
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 High -Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS 850 High -Edge 2/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=23.00, Y=46.00

SAR Peak: 1.68 W/kg

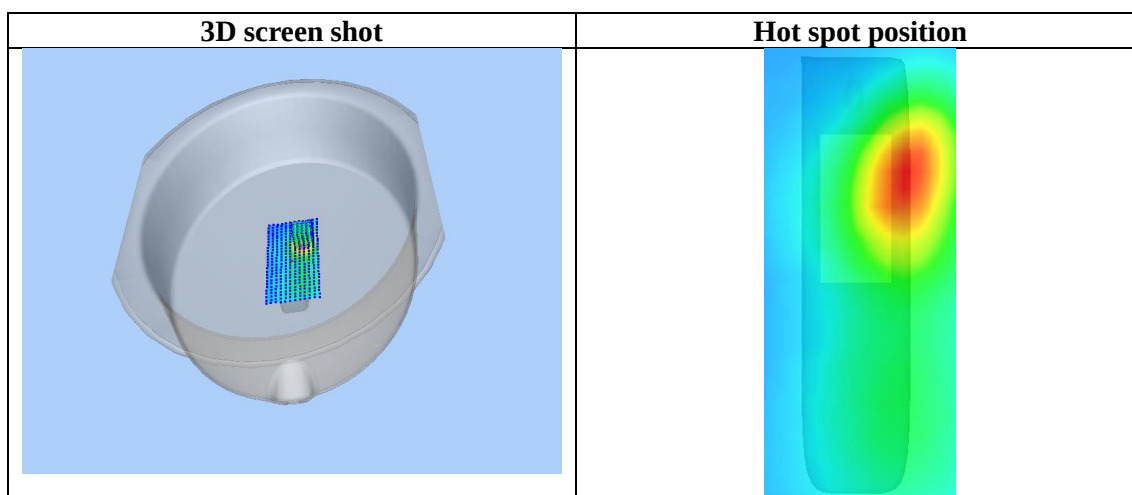
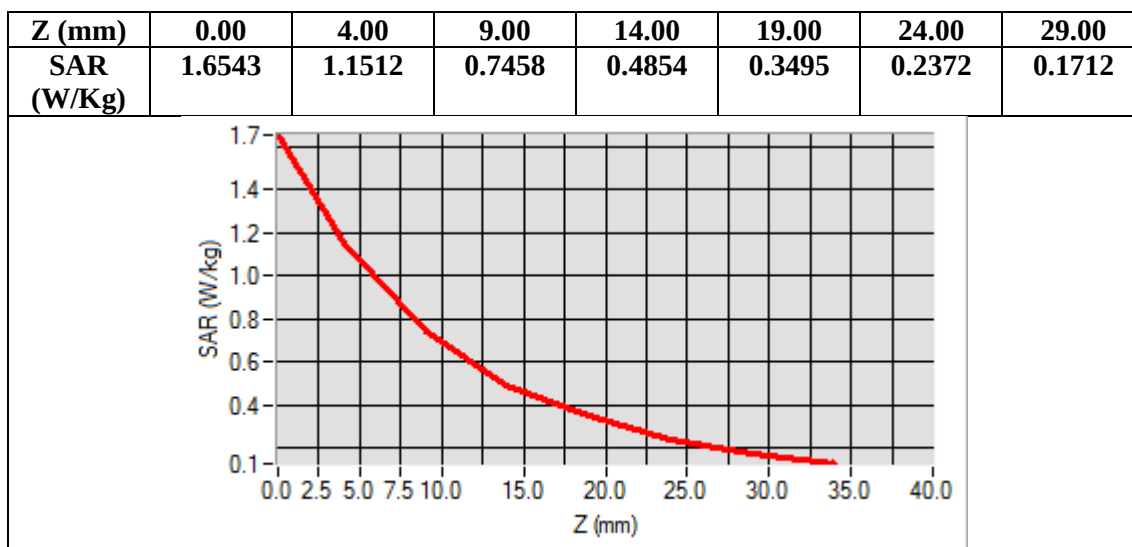
SAR 10g (W/Kg)	0.658518
SAR 1g (W/Kg)	1.086585

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Test Laboratory: AGC Lab
GPRS 1900 Mid-Body-Front (2up)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 20, 2023

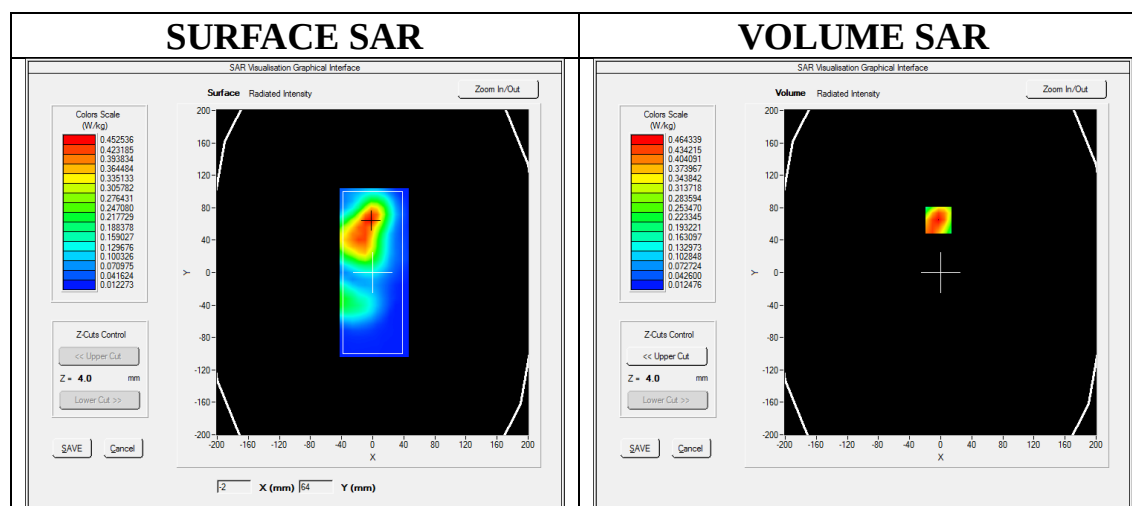
Communication System: GPRS-2Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=2.32;
Frequency: 1880 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.32$ mho/m; $\epsilon_r = 40.41$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)



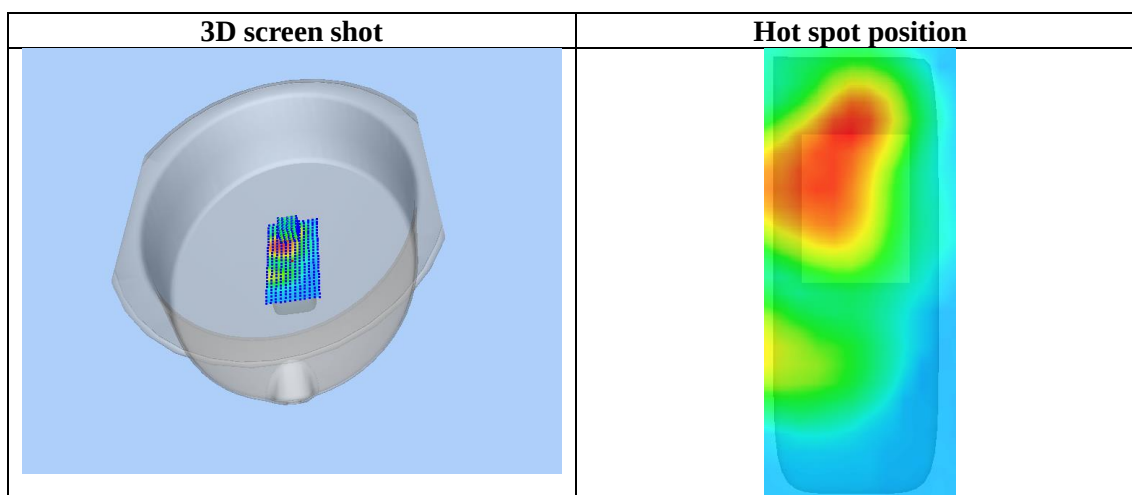
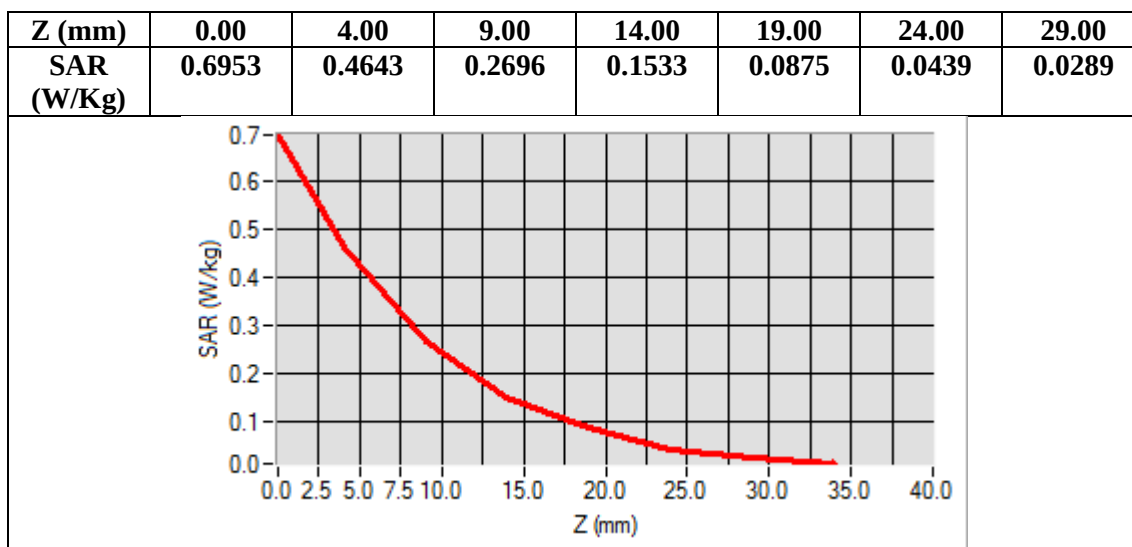
Maximum location: X=-3.00, Y=65.00

SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.253743
SAR 1g (W/Kg)	0.444979

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Edge 2(RMC)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 20, 2023

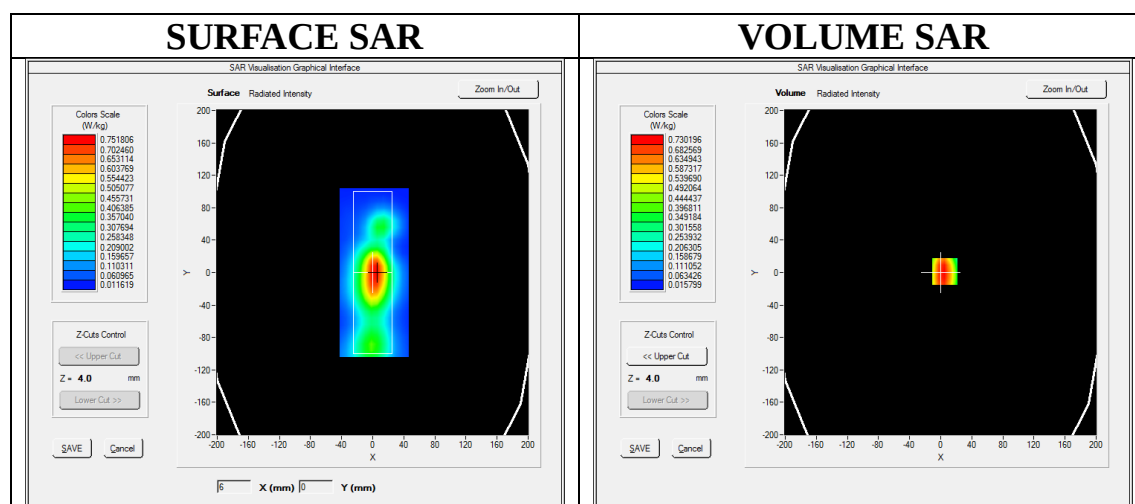
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.32
Frequency: 1880 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.32$ mho/m; $\epsilon_r = 40.41$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



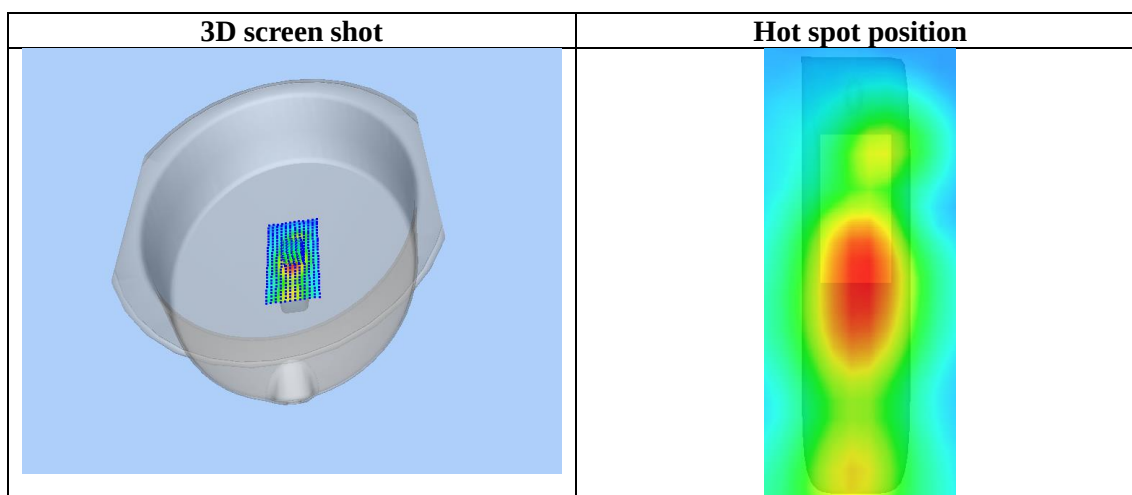
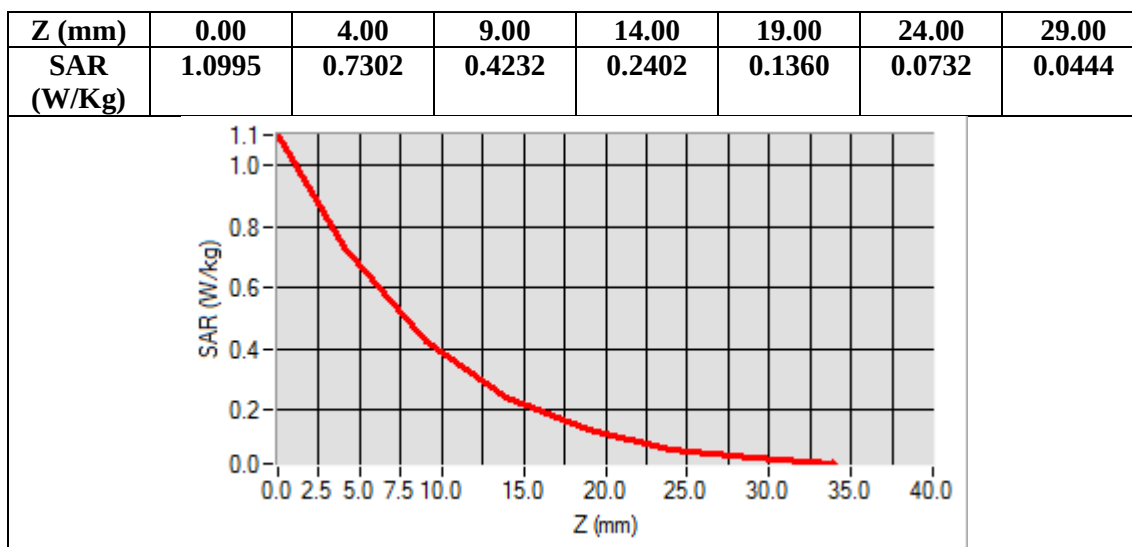
Maximum location: X=5.00, Y=1.00

SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.404989
SAR 1g (W/Kg)	0.707397

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Edge 2(RMC)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 19, 2023

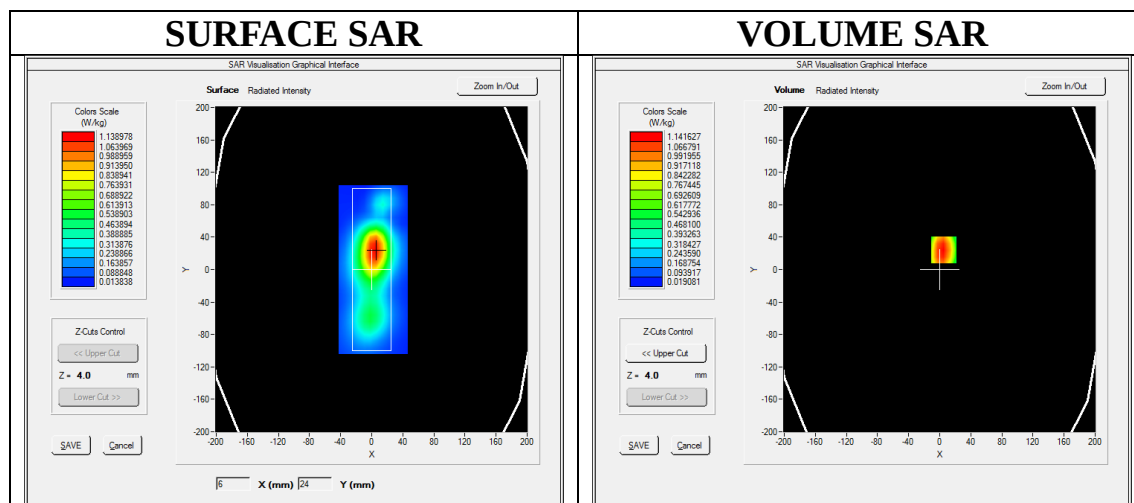
Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.39;
Frequency: 1732.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 42.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band IV Mid-Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band IV Mid-Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2
Band	WCDMA band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



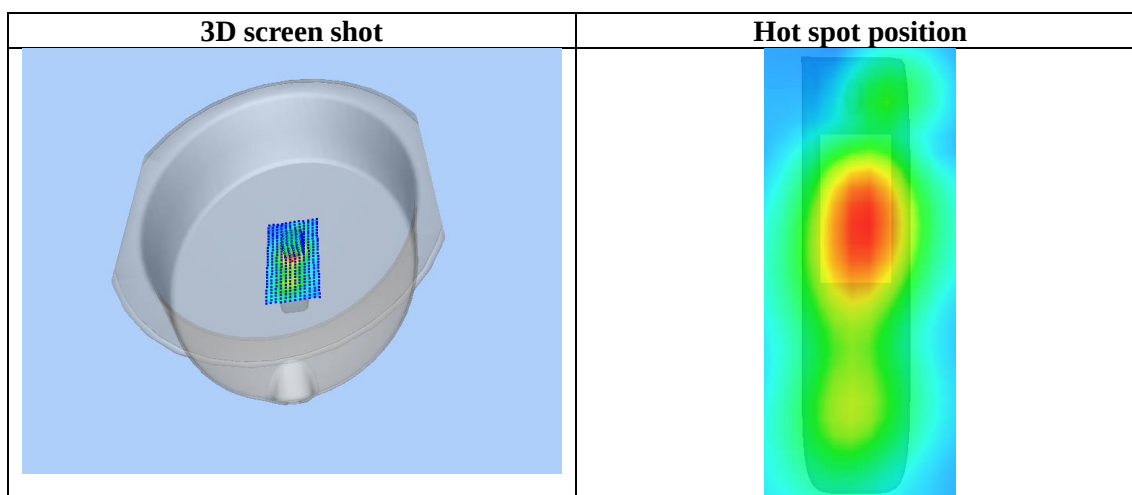
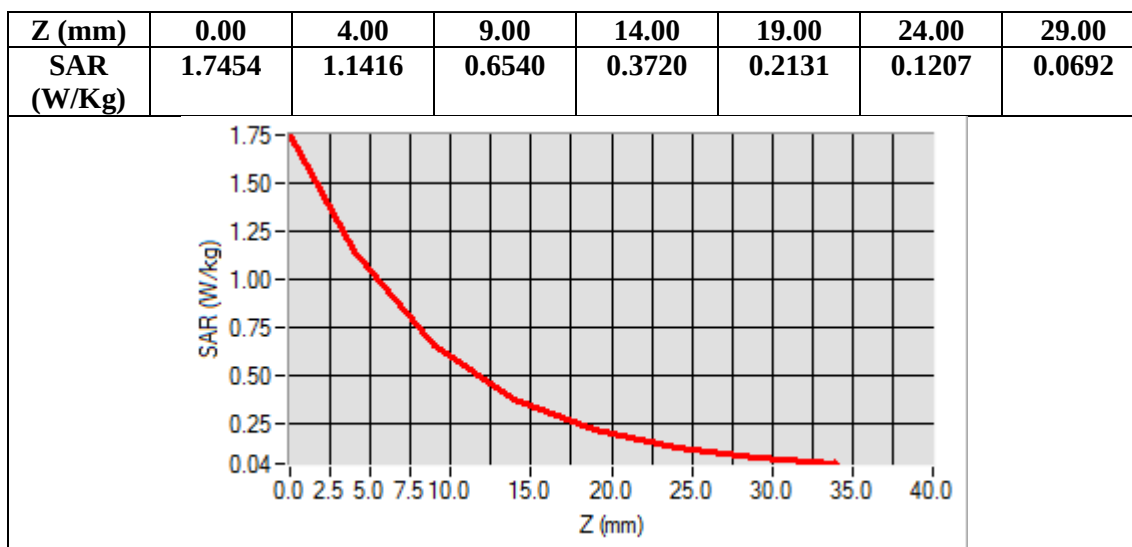
Maximum location: X=5.00, Y=24.00

SAR Peak: 1.77 W/kg

SAR 10g (W/Kg)	0.624879
SAR 1g (W/Kg)	1.101296

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Test Laboratory: AGC Lab

Date: Aug. 09, 2023

WCDMA Band V Mid- Edge 2(Right) (RMC)

DUT: Wireless Data Terminal ; Type: H10

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.85; Frequency: 836.4 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.90\text{ mho/m}$; $\epsilon_r = 39.95$; $\rho = 1000\text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.4

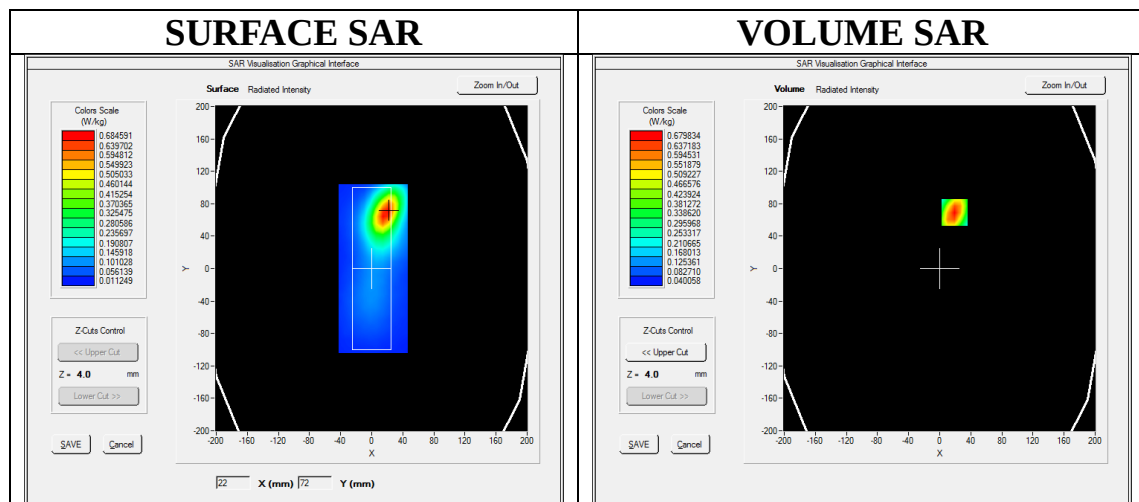
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid- Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V Mid- Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=19.00, Y=69.00

SAR Peak: 0.97 W/kg

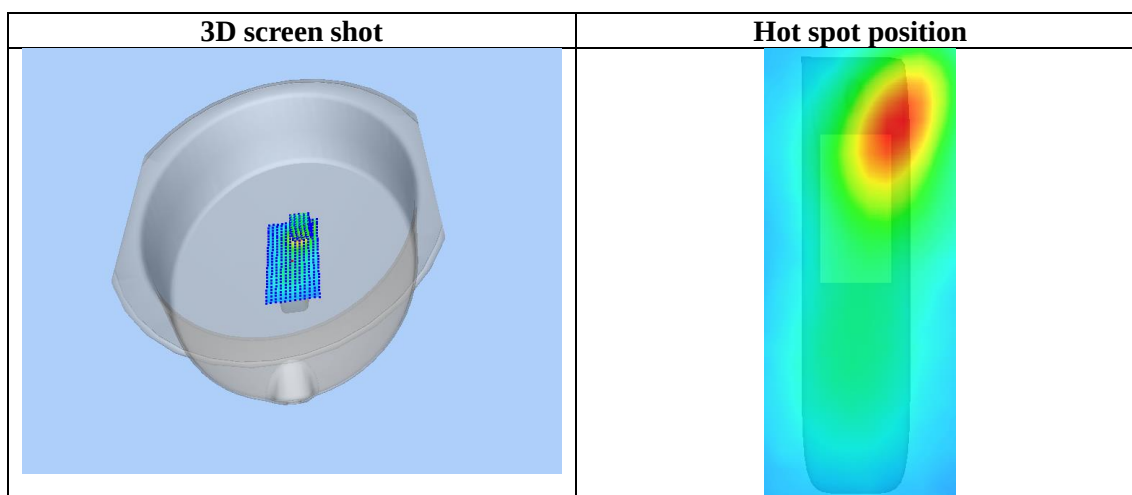
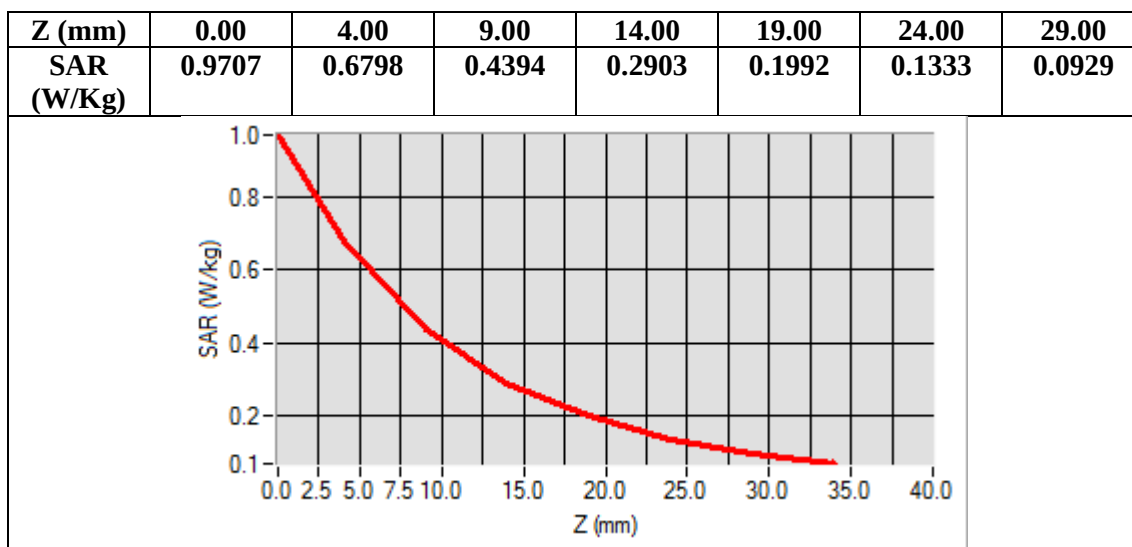
SAR 10g (W/Kg)	0.390795
SAR 1g (W/Kg)	0.642535

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Test Laboratory: AGC Lab
LTE Band 2 High-Body-Front (1 RB#0)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 20, 2023

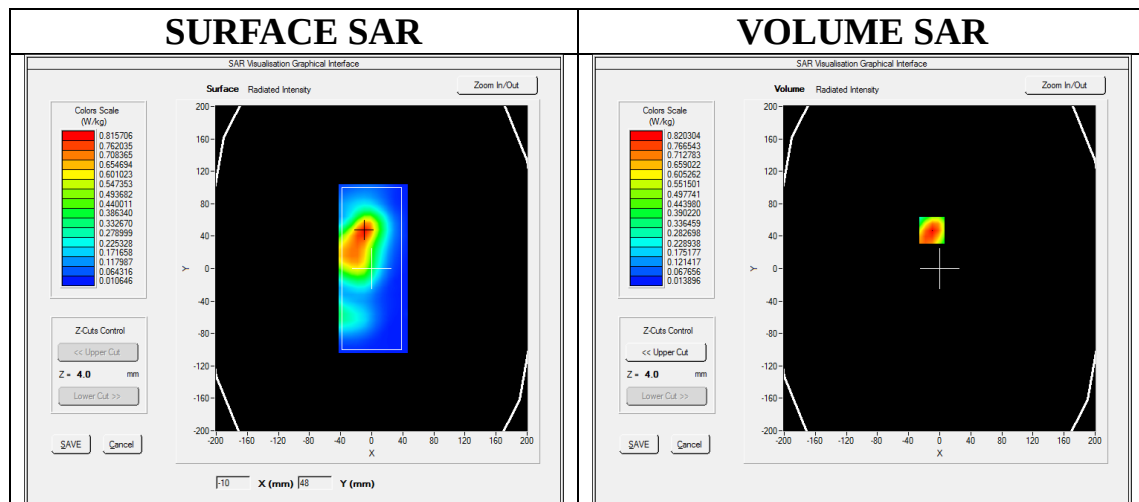
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.32;
Frequency: 1900MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.13$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 High-Body-Front /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 High-Body-Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 2
Channels	High
Signal	OFDM (Crest factor: 1.0)



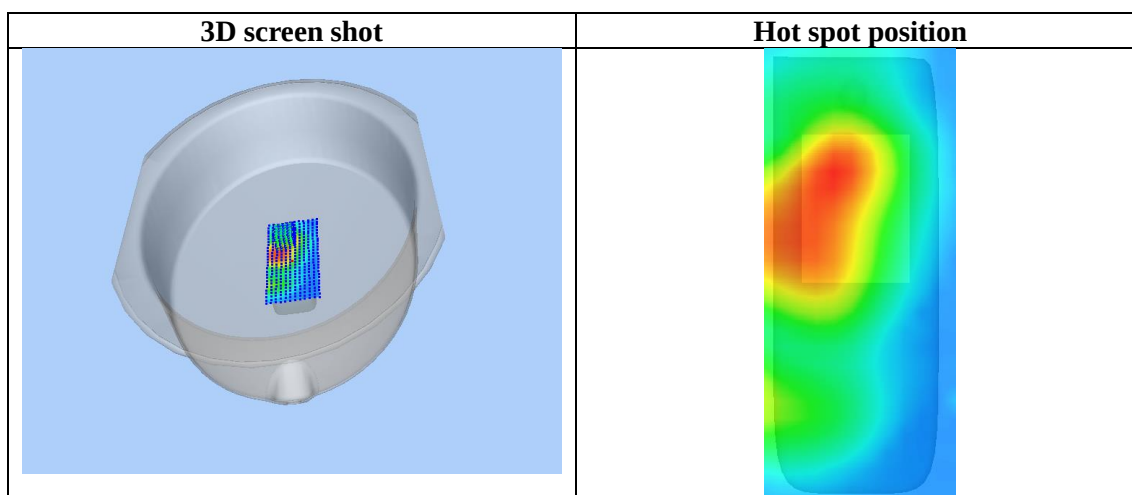
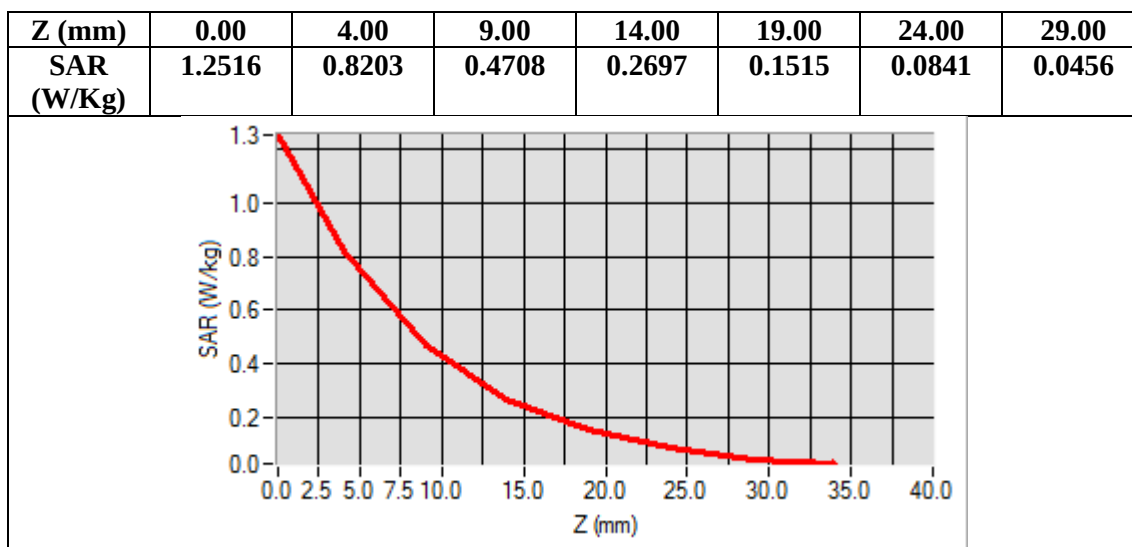
Maximum location: X=-10.00, Y=47.00

SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.448163
SAR 1g (W/Kg)	0.782122

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Test Laboratory: AGC Lab
LTE Band 4 Mid- Edge 2(Right) (1 RB#0)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 19, 2023

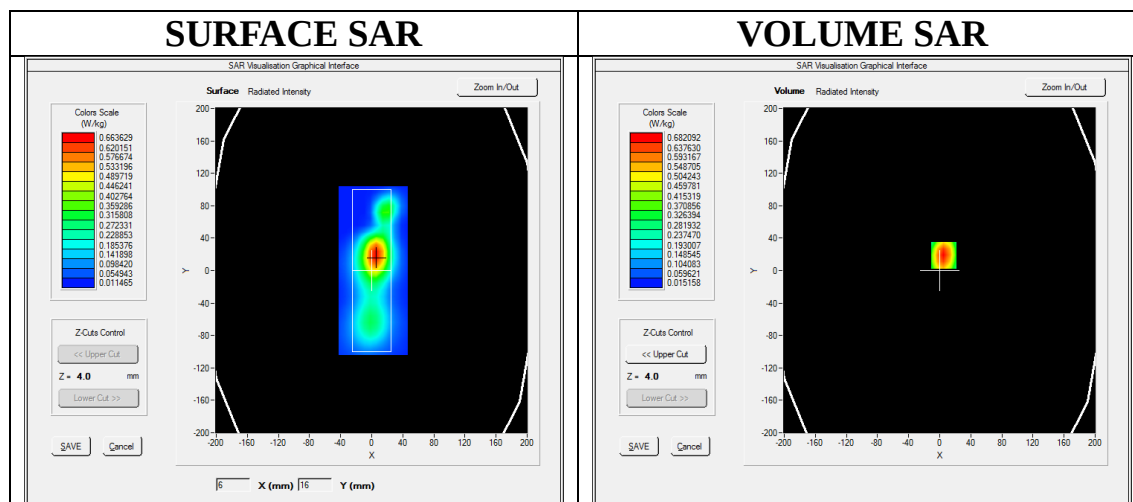
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.39;
Frequency:1732.5 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 42.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 Mid- Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid- Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



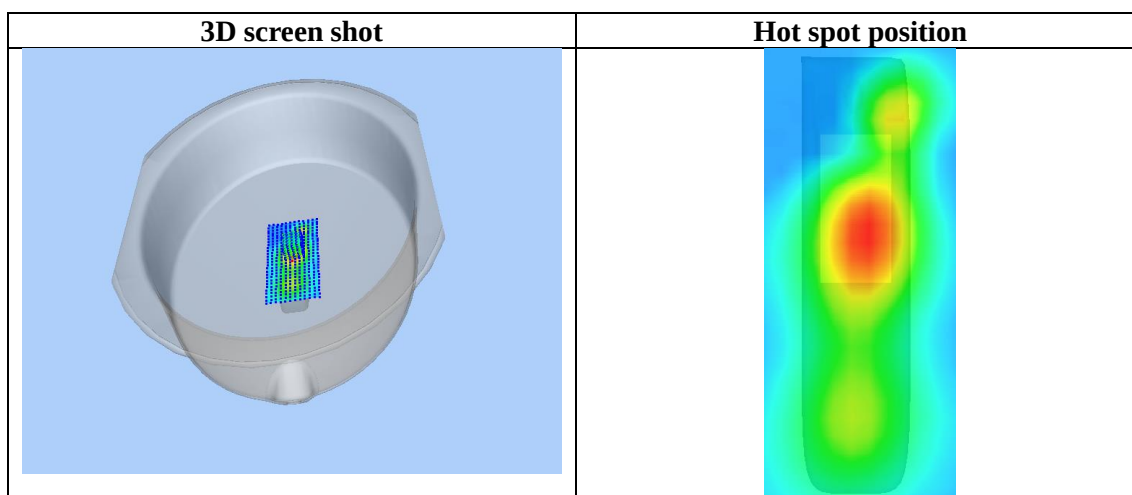
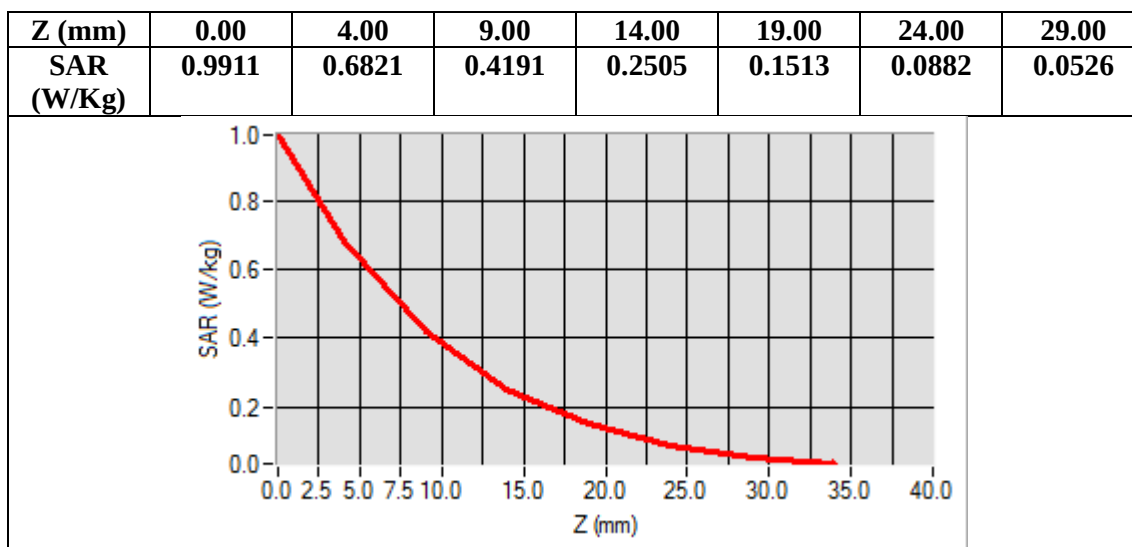
Maximum location: X=5.00, Y=19.00

SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.374667
SAR 1g (W/Kg)	0.645706

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Test Laboratory: AGC Lab
LTE Band 5 Mid-Edge 2(Right) (1 RB#0)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 09, 2023

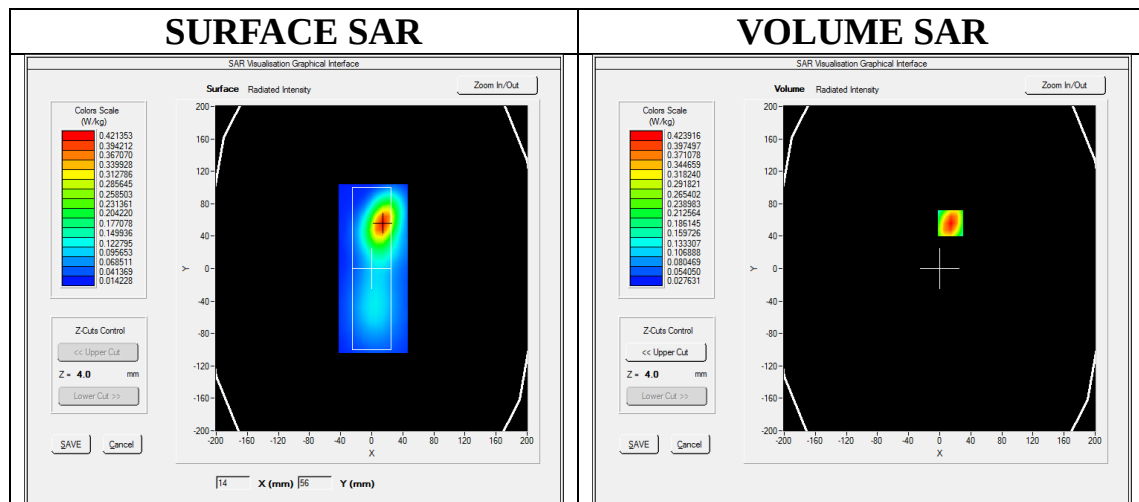
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.85
Frequency:836.5 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 39.95$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Mid-Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 Mid-Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



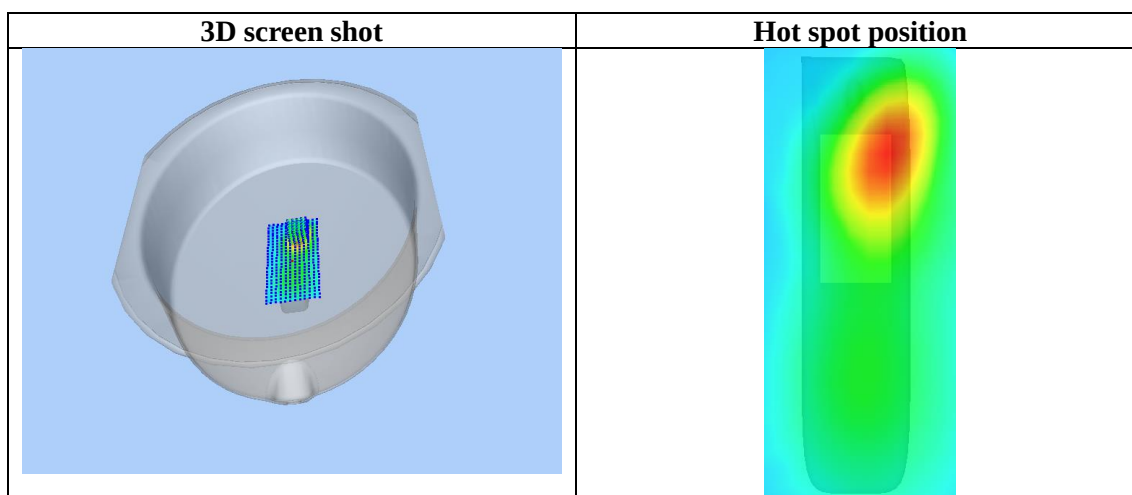
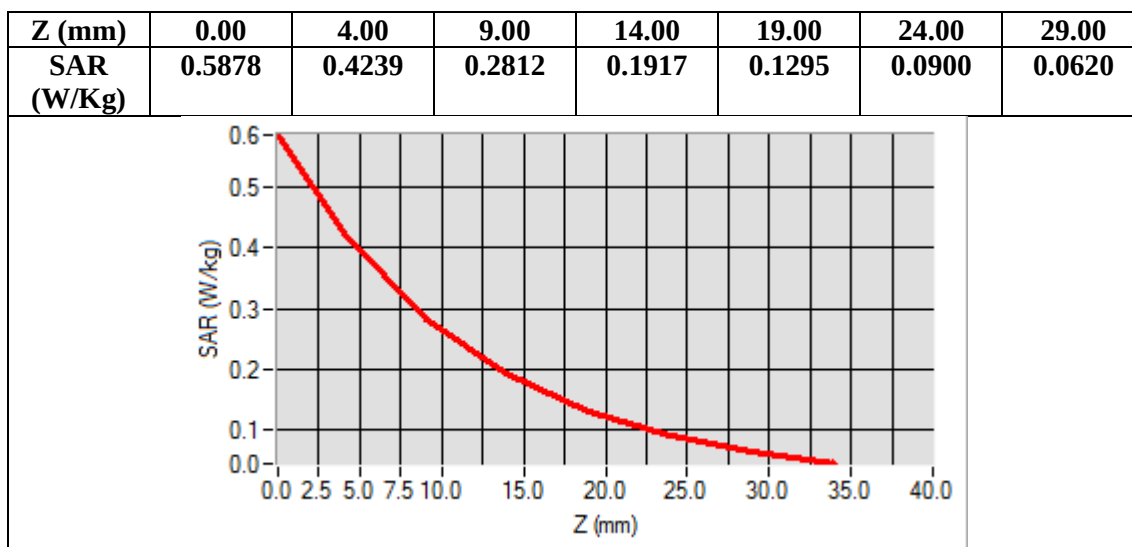
Maximum location: X=14.00, Y=56.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.251453
SAR 1g (W/Kg)	0.402129

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Test Laboratory: AGC Lab
LTE Band 7 Mid-Edge 2(Right) (1RB#0)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 14, 2023

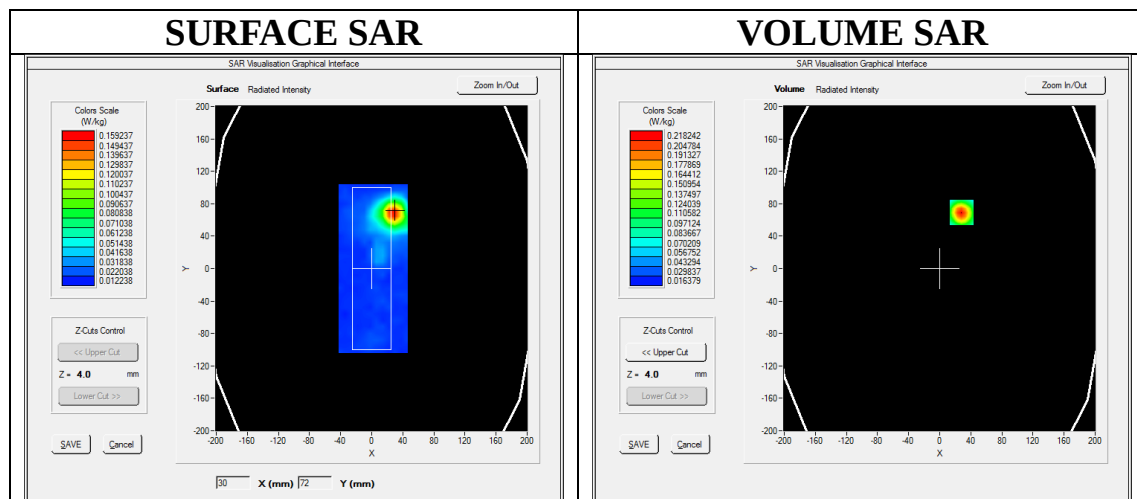
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=2.29
Frequency: 2535MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 40.35$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 7 Mid-Edge 2(Right) /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 7 Mid-Edge 2(Right) /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



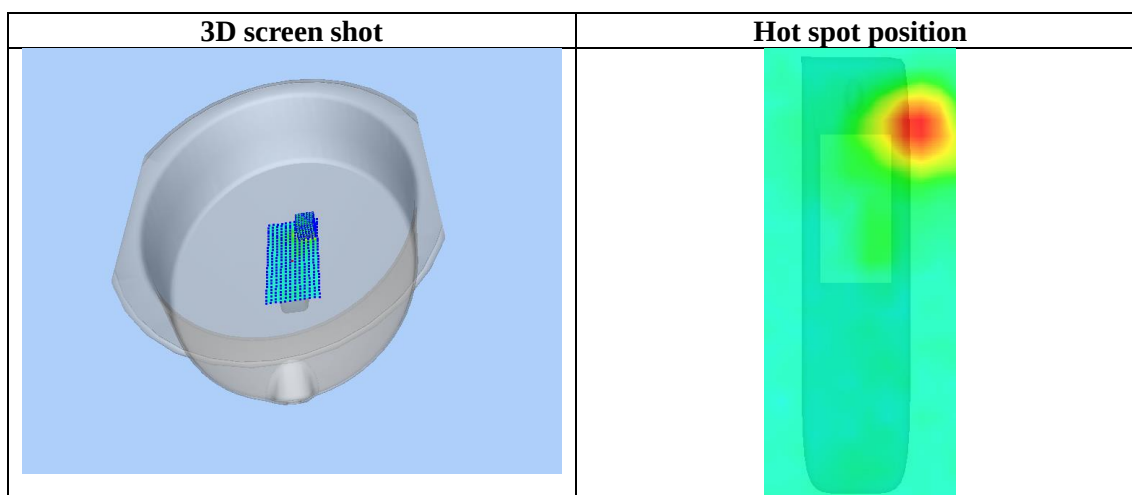
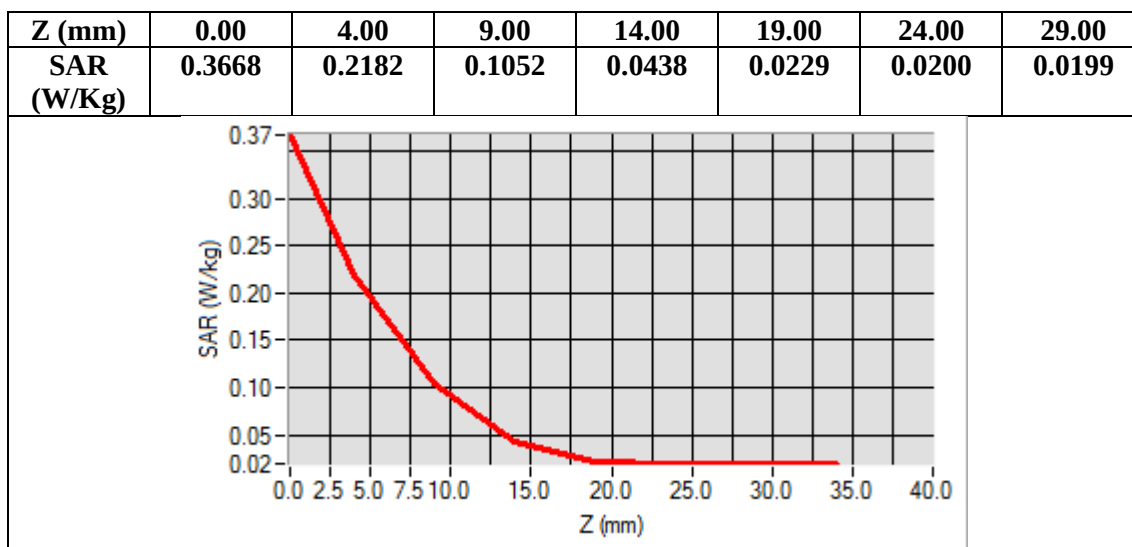
Maximum location: X=28.00, Y=69.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.096223
SAR 1g (W/Kg)	0.199849

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Test Laboratory: AGC Lab
LTE Band 38 Mid-Edge 2(Right) (1RB#0)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 14, 2023

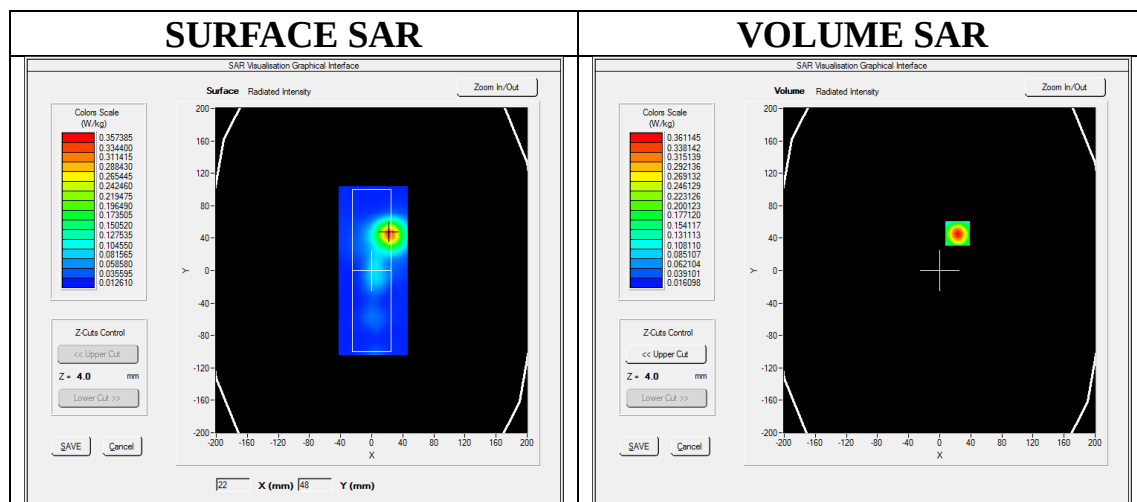
Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=2.29
Frequency: 2595MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 39.27$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 38 Mid-Edge 2(Right) /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 38 Mid-Edge 2(Right) /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE BAND 38
Channels	Middle
Signal	Crest factor: 1.58



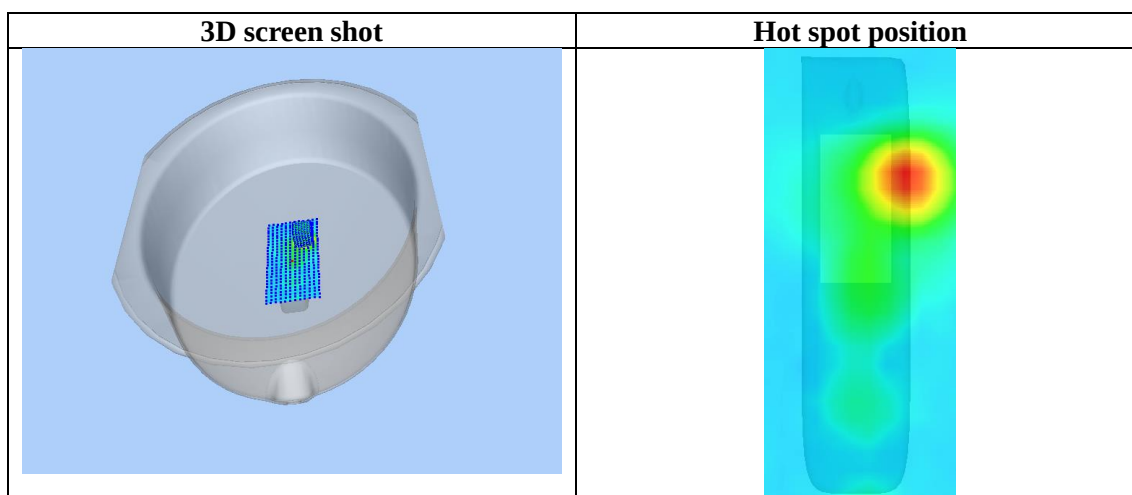
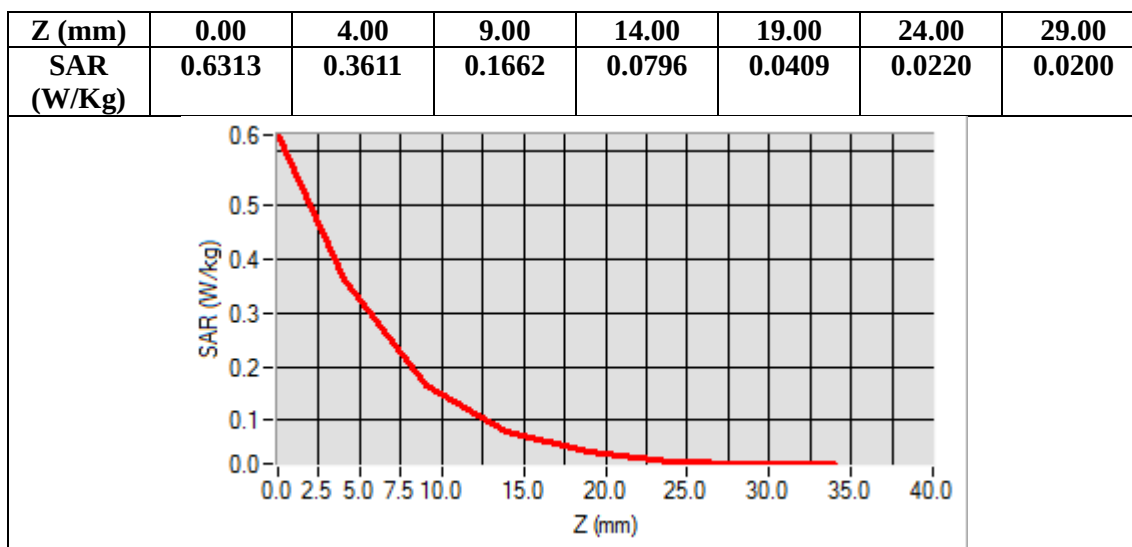
Maximum location: X=23.00, Y=46.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.159965
SAR 1g (W/Kg)	0.339099

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Test Laboratory: AGC Lab
LTE Band 40 Mid-Body- Back (1 RB#0)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 16, 2023

Communication System: LTE; Communication System Band: LTE Band 40; Duty Cycle:1:1.58; Conv.F=2.23
Frequency: 2355 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.70$ mho/m; $\epsilon_r = 38.10$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 20.8

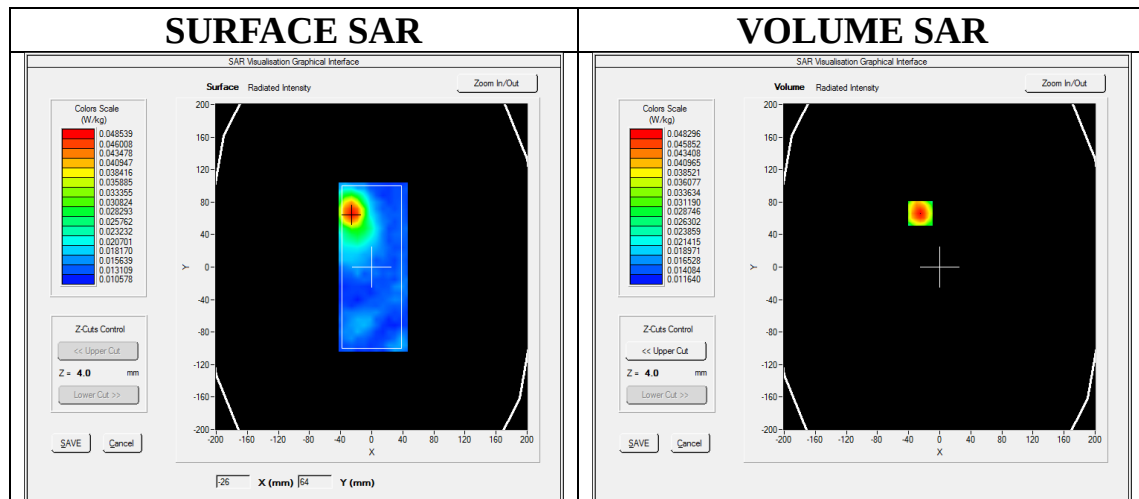
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPG0391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 40 Mid-Body- Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 40 Mid-Body- Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 40
Channels	Middle
Signal	Crest factor: 1.58



Maximum location: X=-25.00, Y=66.00

SAR Peak: 0.08 W/kg

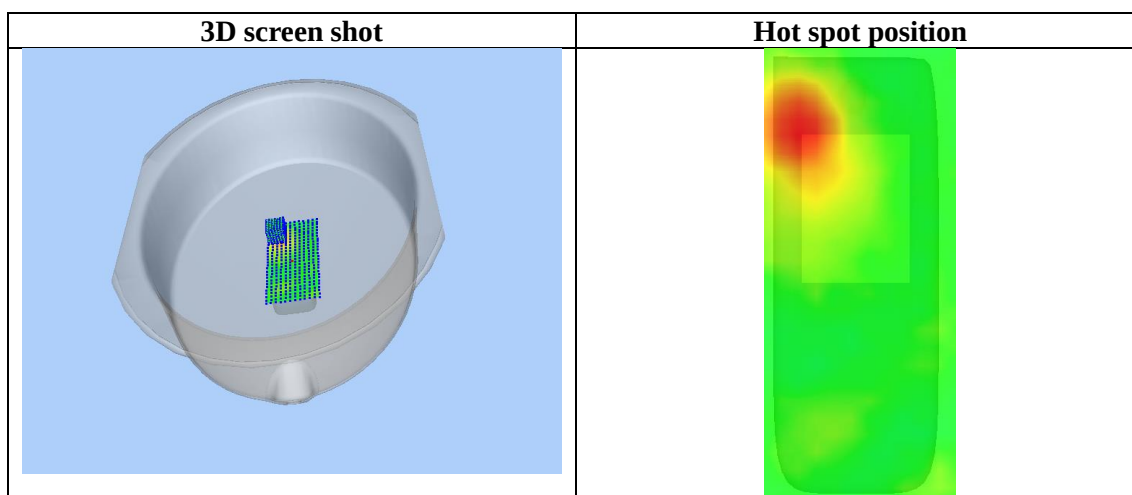
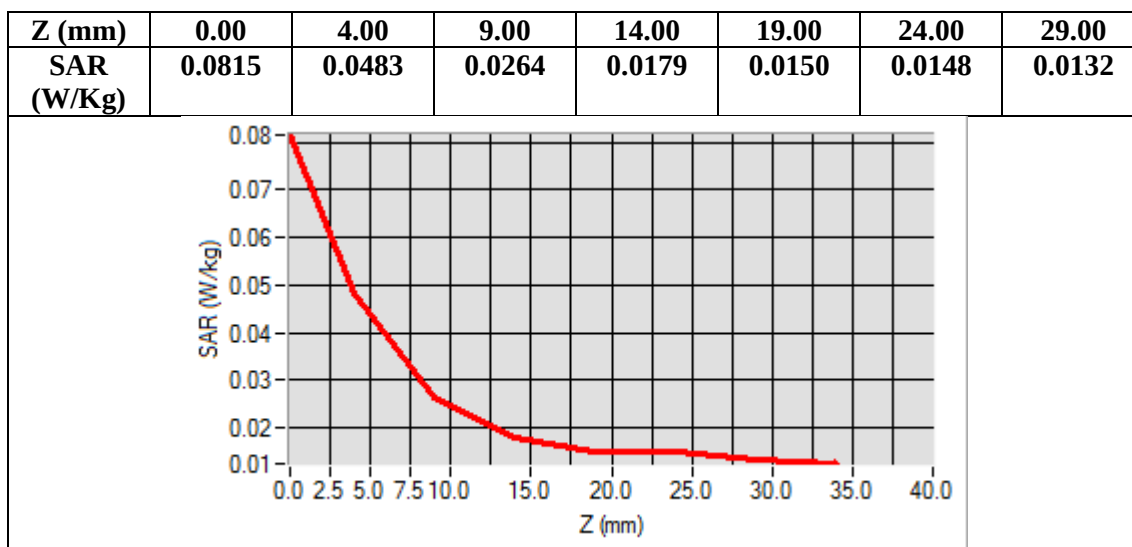
SAR 10g (W/Kg)	0.027838
SAR 1g (W/Kg)	0.046564

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Test Laboratory: AGC Lab
LTE Band 41 Mid-Edge 2(Right)(1RB#0)
DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 14, 2023

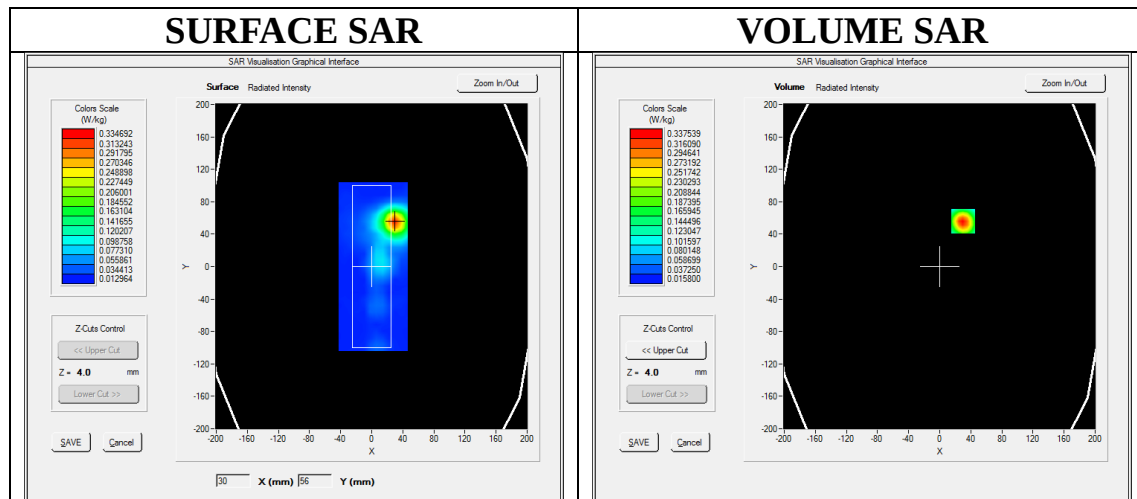
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.29
Frequency: 2593MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 41 Mid-Edge 2(Right) /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 41 Mid-Edge 2(Right) /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)



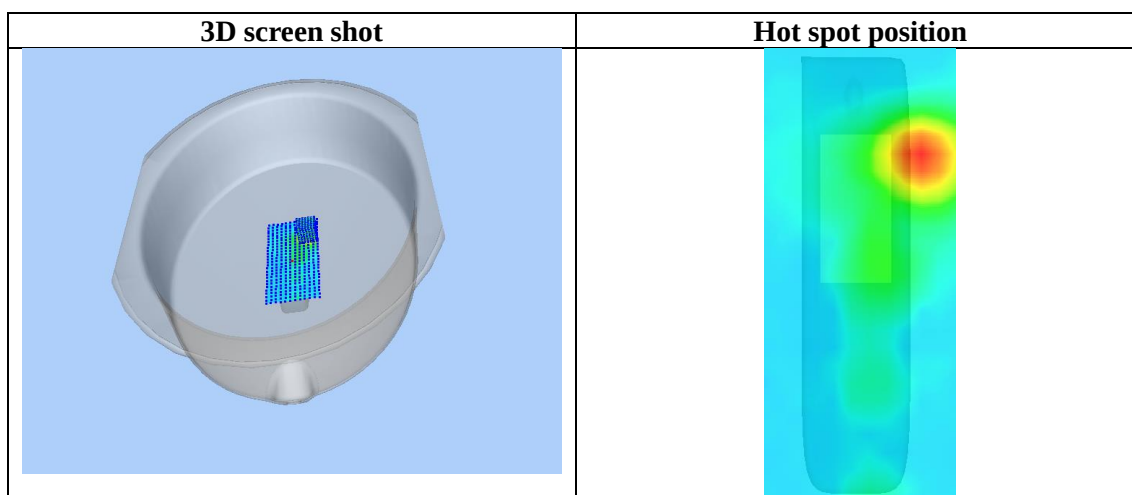
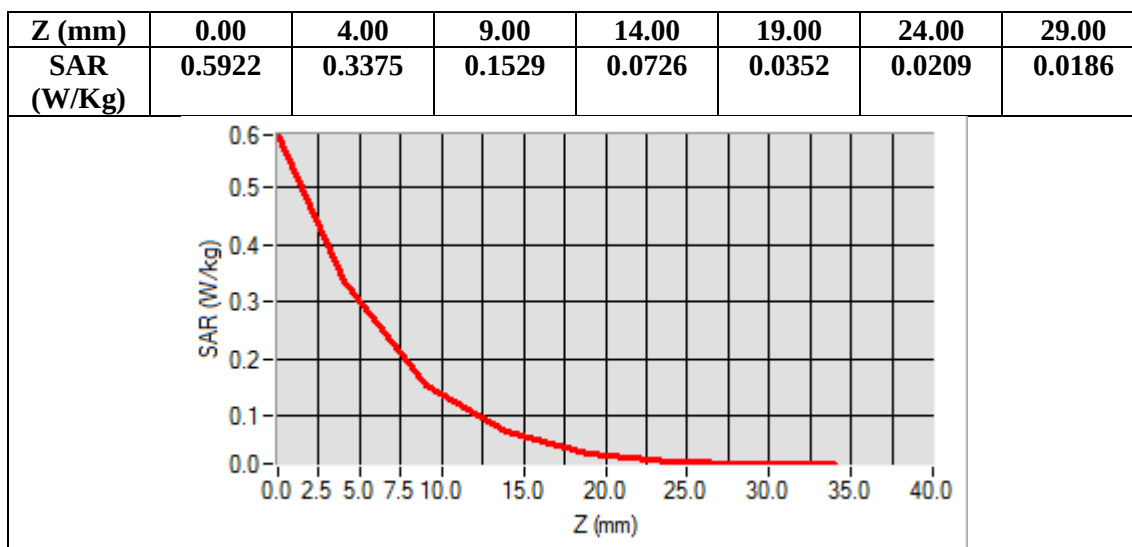
Maximum location: X=30.00, Y=56.00

SAR Peak: 0.59 W/kg

SAR 10g (W/Kg)	0.148965
SAR 1g (W/Kg)	0.314737

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WIFI MODE

Test Laboratory: AGC Lab

Date: Aug. 15, 2023

802.11b Mid-Body-Worn- Front

DUT: Wireless Data Terminal ; Type: H10

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.34;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 38.95$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.4

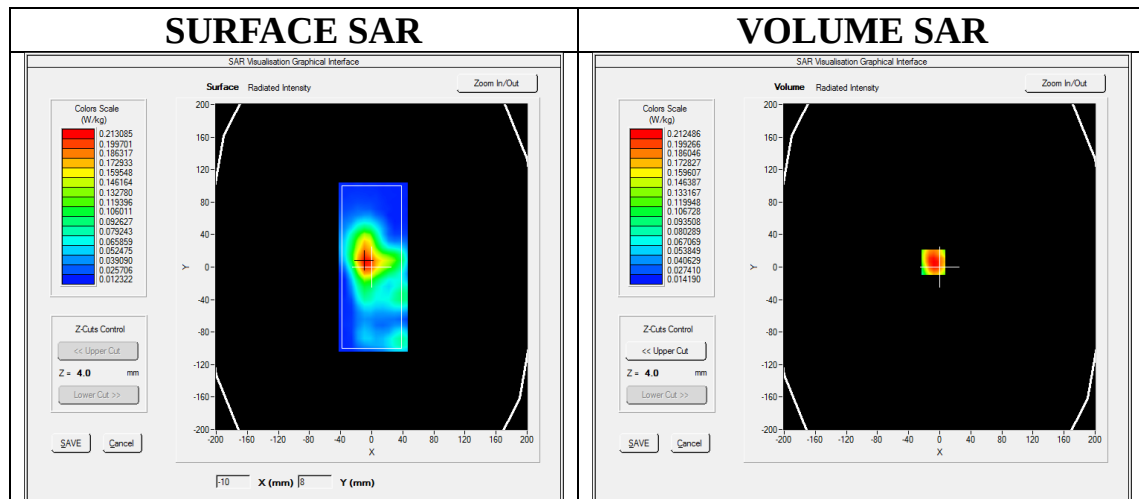
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/802.11b Mid- Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11b Mid- Body- Front /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=-8.00, Y=6.00

SAR Peak: 0.34 W/kg

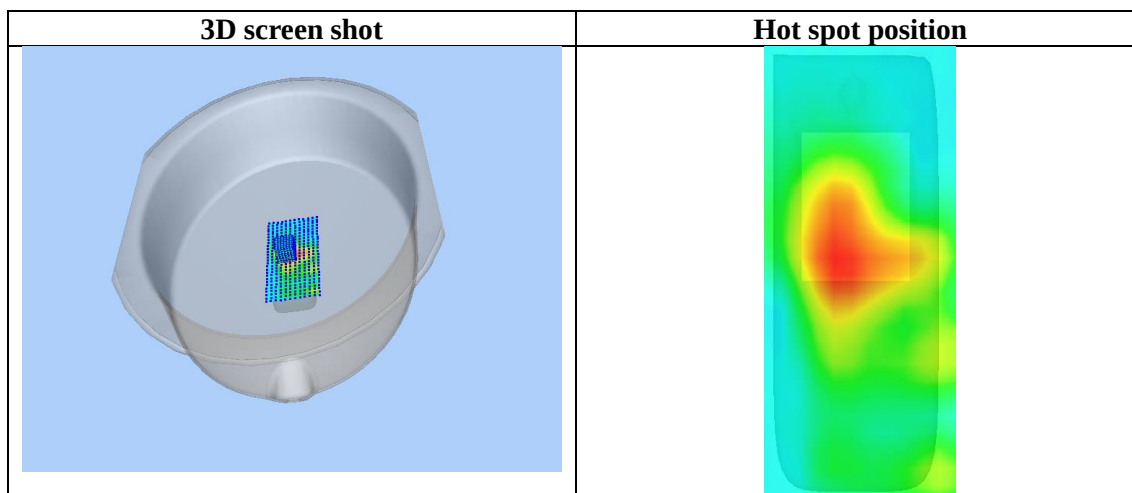
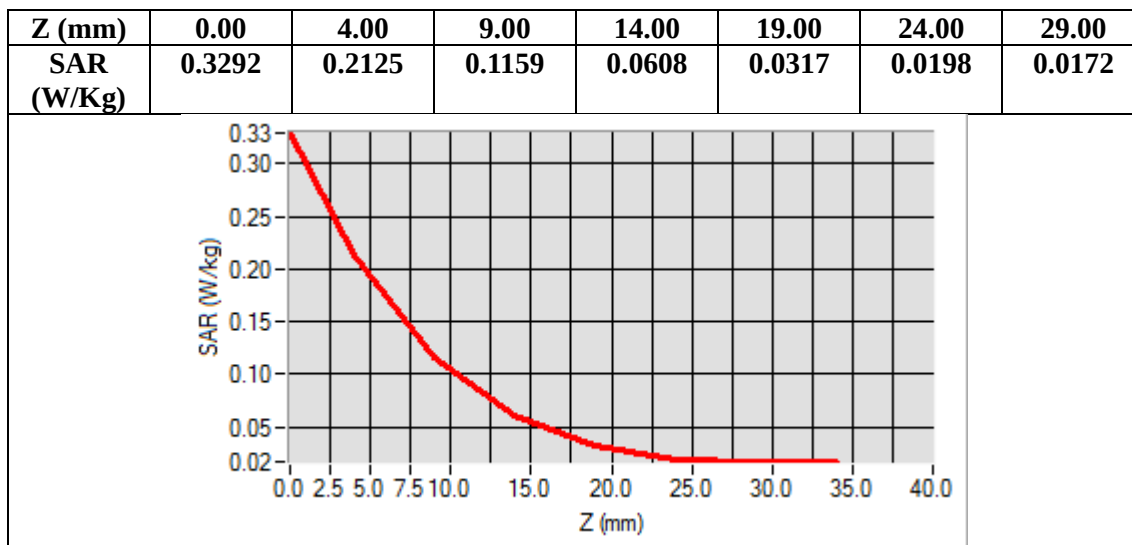
SAR 10g (W/Kg)	0.110905
SAR 1g (W/Kg)	0.203195

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5.2GHz 802.11ac 80

Test Laboratory: AGC Lab

802.11a CH40- Edge 4(Left)

DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 26, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.35;
Frequency: 5200MHz; Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.61 \text{ mho/m}$; $\epsilon_r = 35.83$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

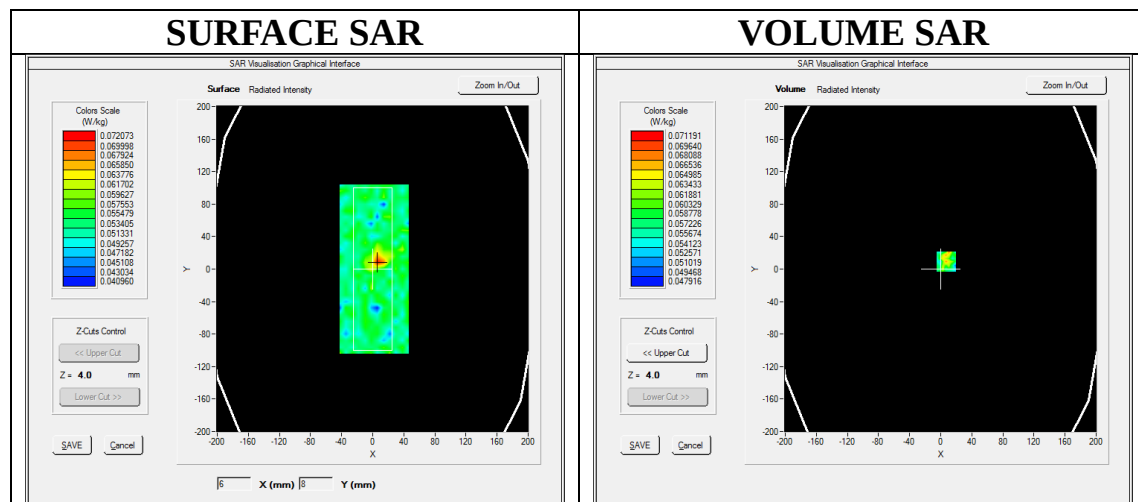
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/802.11a CH40- Edge 4(Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11a CH40- Edge 4(Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4(Left)
Band	5200MHz
Channels	CH40
Signal	Crest factor: 1.0



Maximum location: X=7.00, Y=9.00

SAR Peak: 0.13 W/kg

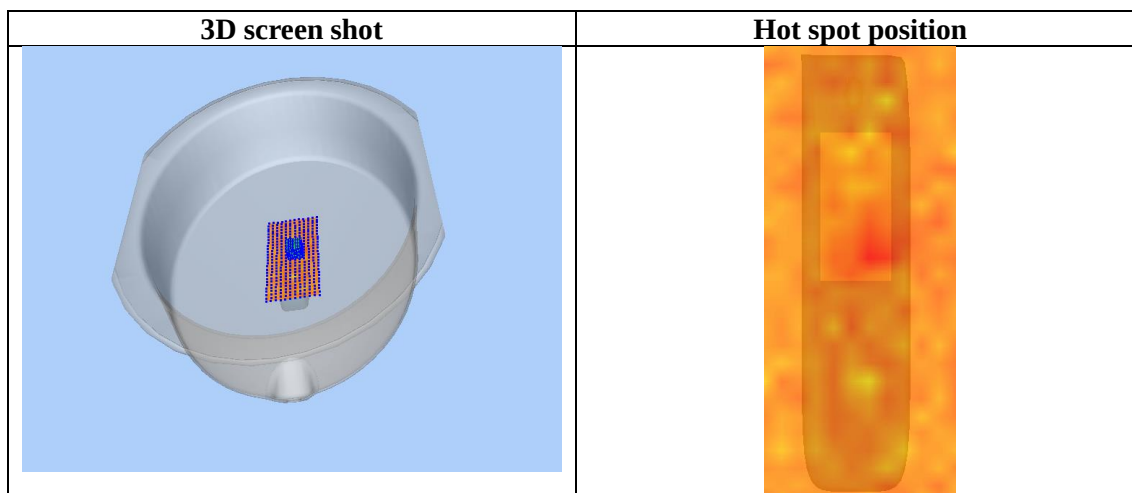
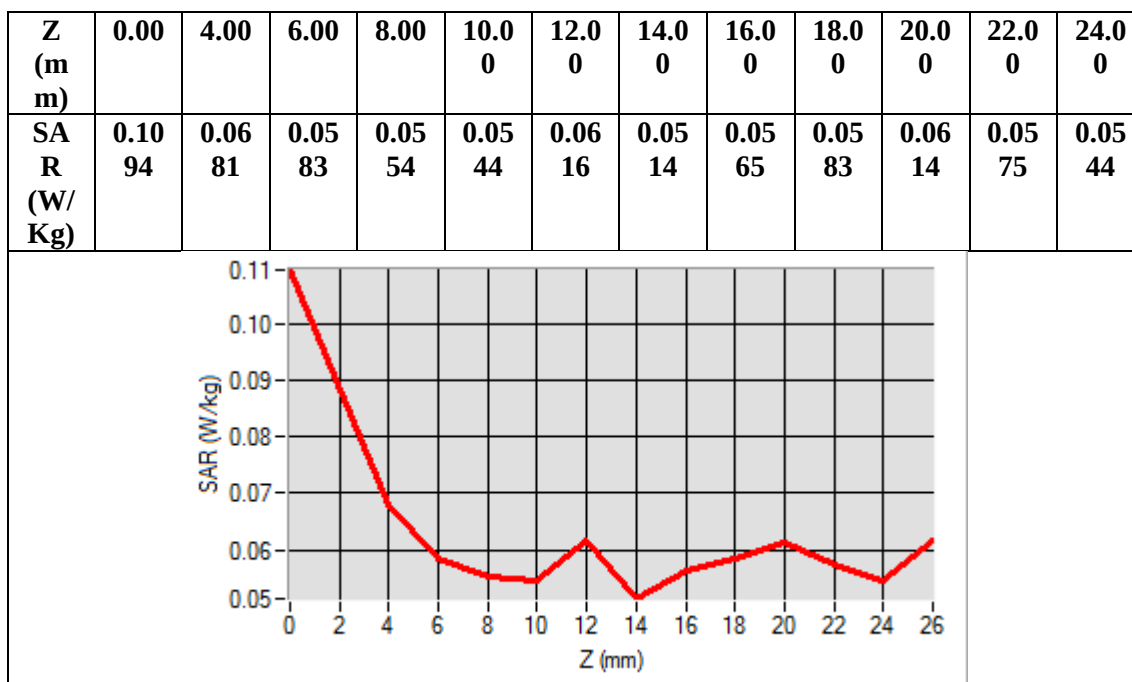
SAR 10g (W/Kg)	0.060209
SAR 1g (W/Kg)	0.066977

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5.3GHz 802.11ac 80

Test Laboratory: AGC Lab

802.11ac 80 CH58- Edge 4 (Left)

DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 27, 2023

Communication System: Wi-Fi; Communication System Band: 802.11ac VHT80; Duty Cycle: 1:1; Conv.F=1.20; Frequency: 5290MHz; Medium parameters used: $f = 5300$ MHz; $\sigma = 4.61$ mho/m; $\epsilon_r = 35.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.2

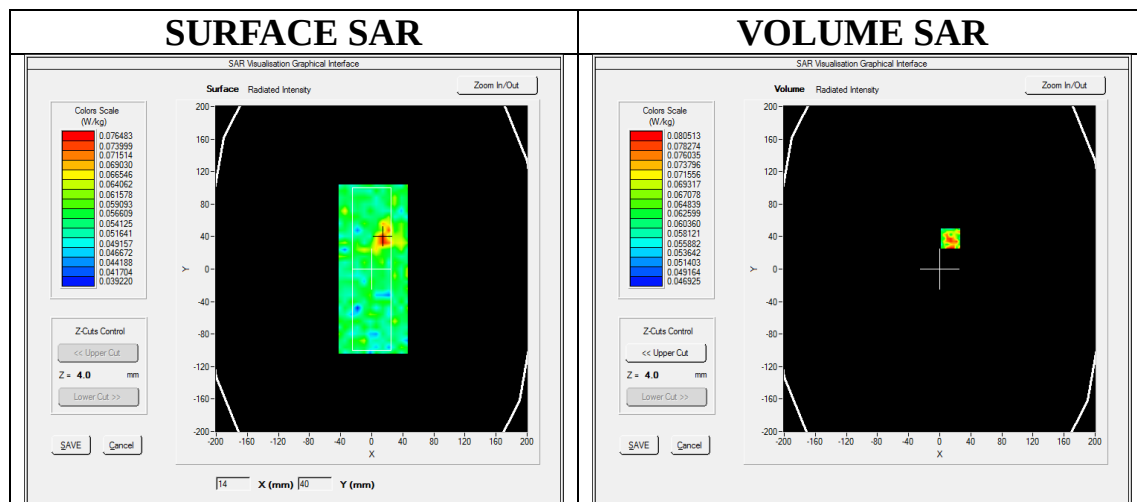
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/802.11ac 80 CH58- Edge 4 (Left)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11ac 80 CH58- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5300MHz
Channels	CH58
Signal	Crest factor: 1.0



Maximum location: X=14.00, Y=38.00

SAR Peak: 0.15 W/kg

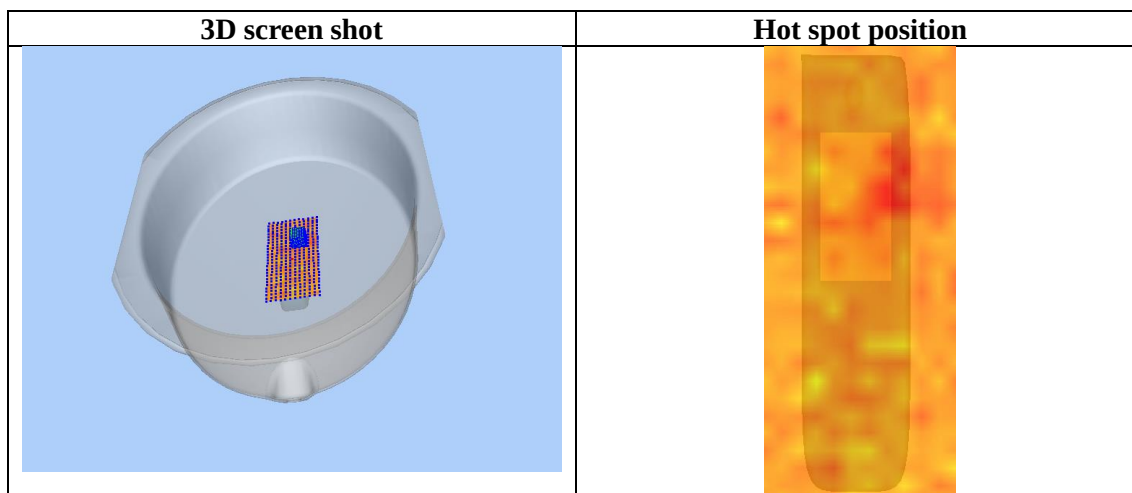
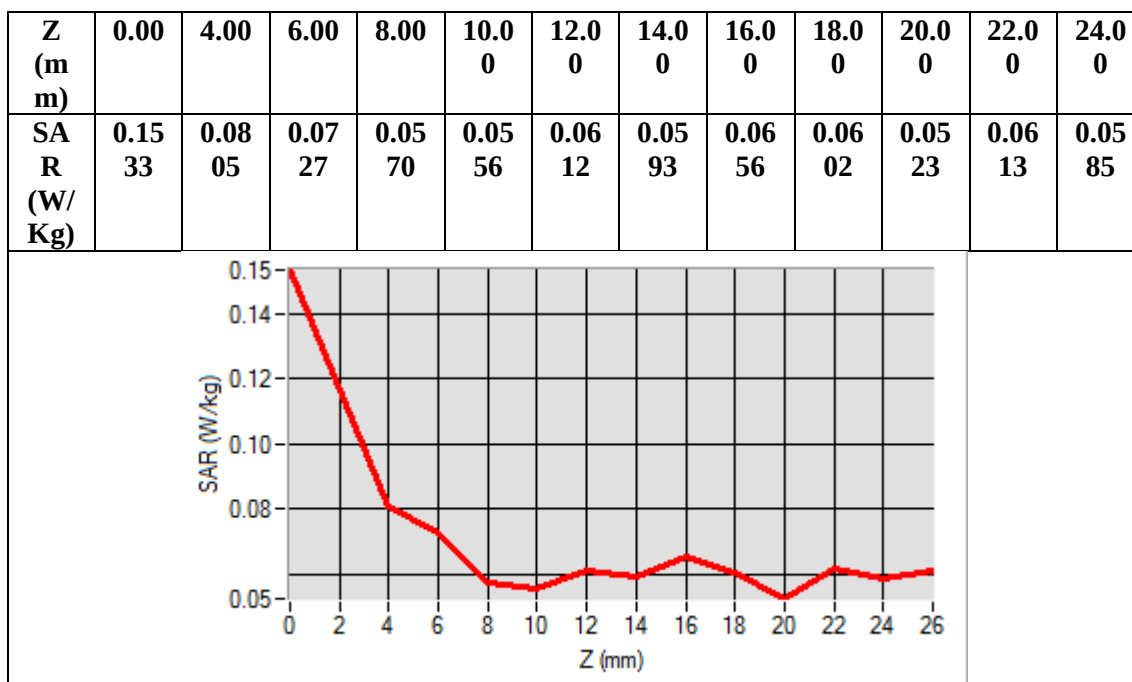
SAR 10g (W/Kg)	0.065707
SAR 1g (W/Kg)	0.076796

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5.8GHz 802.11a

Test Laboratory: AGC Lab

802.11a CH157- Body-Back

DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 28, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.85;
Frequency: 5785MHz; Medium parameters used: $f = 5800$ MHz; $\sigma = 5.41$ mho/m; $\epsilon_r = 36.37$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.3

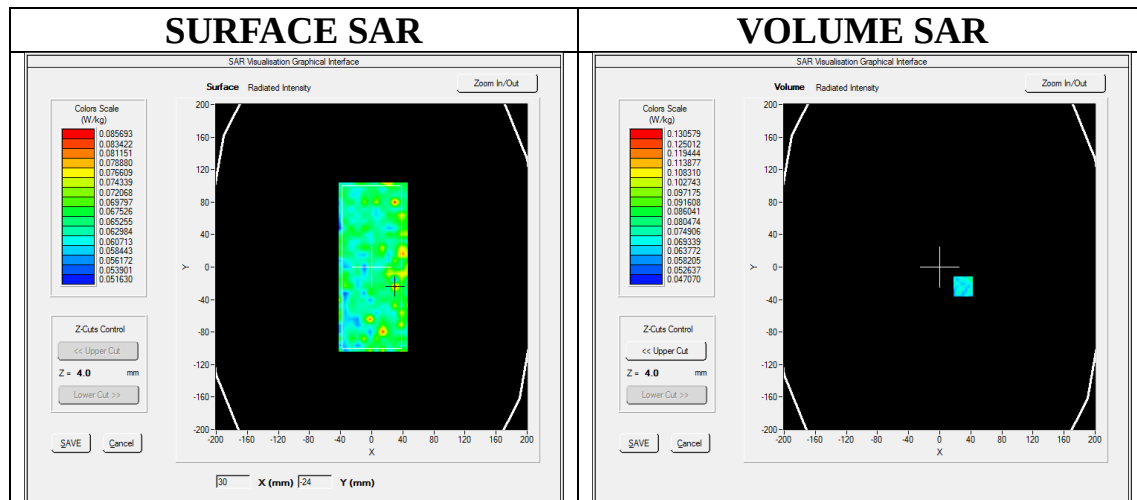
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ 802.11a CH157- Body-Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ 802.11a CH157- Body-Back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Body Back
Band	5800MHz
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=30.00, Y=-24.00

SAR Peak: 0.14 W/kg

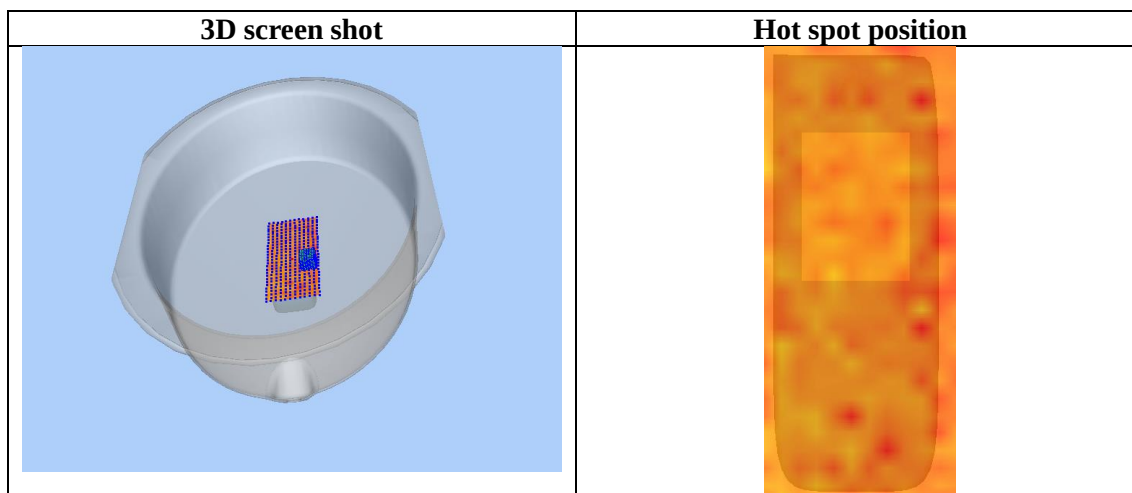
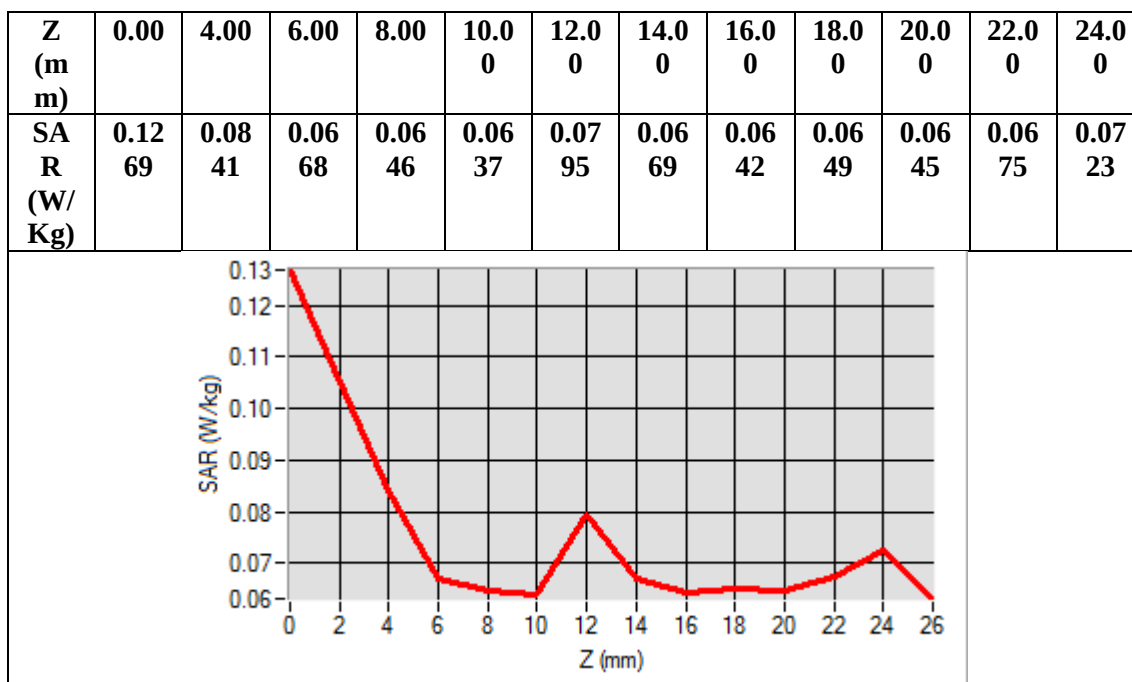
SAR 10g (W/Kg)	0.070095
SAR 1g (W/Kg)	0.070989

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Repeated SAR

Test Laboratory: AGC Lab

GPRS 850 High-Edge 2 (2up)

DUT: Wireless Data Terminal ; Type: H10

Date: Aug. 09, 2023

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.85;
Frequency: 848.8 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 38.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.4

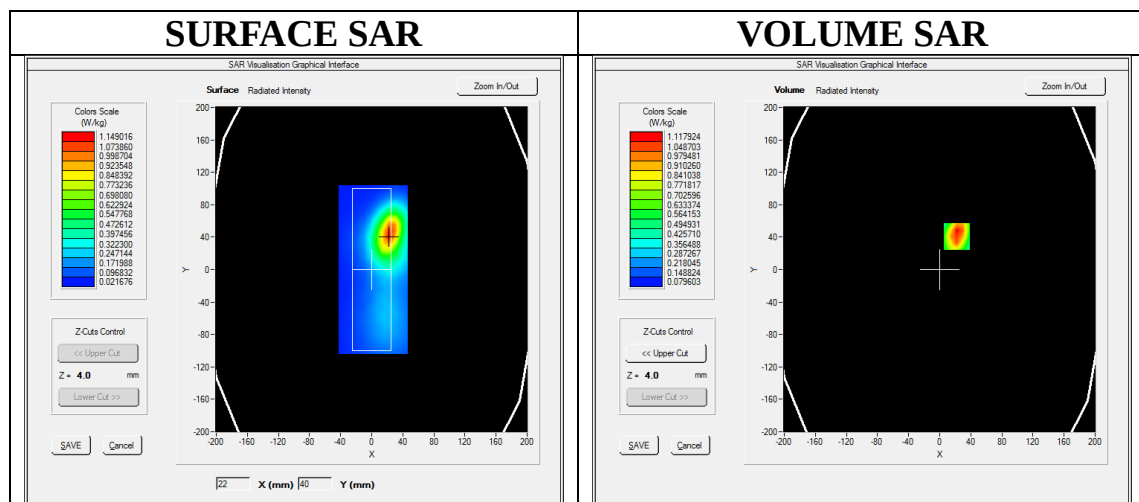
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 High -Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS 850 High -Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=22.00, Y=41.00

SAR Peak: 1.59 W/kg

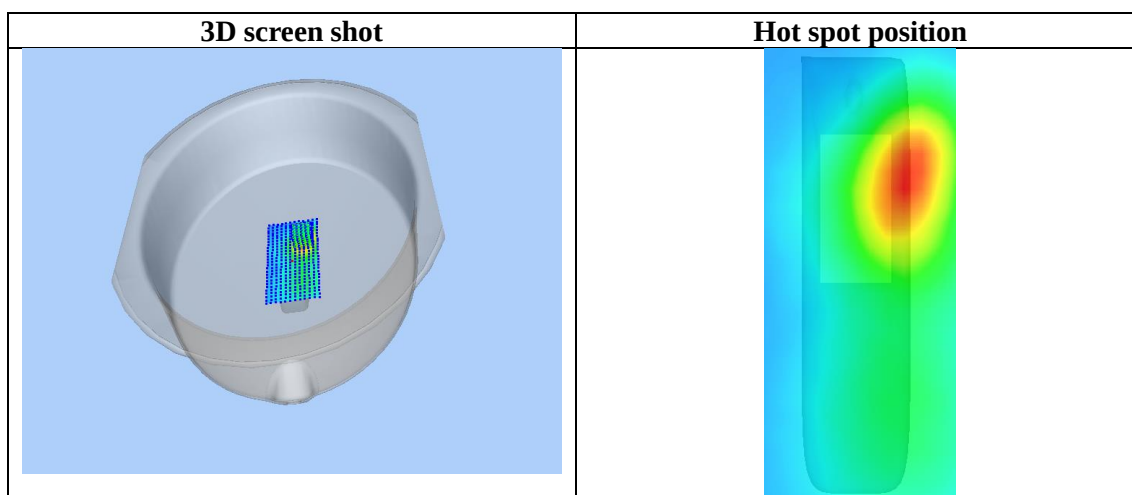
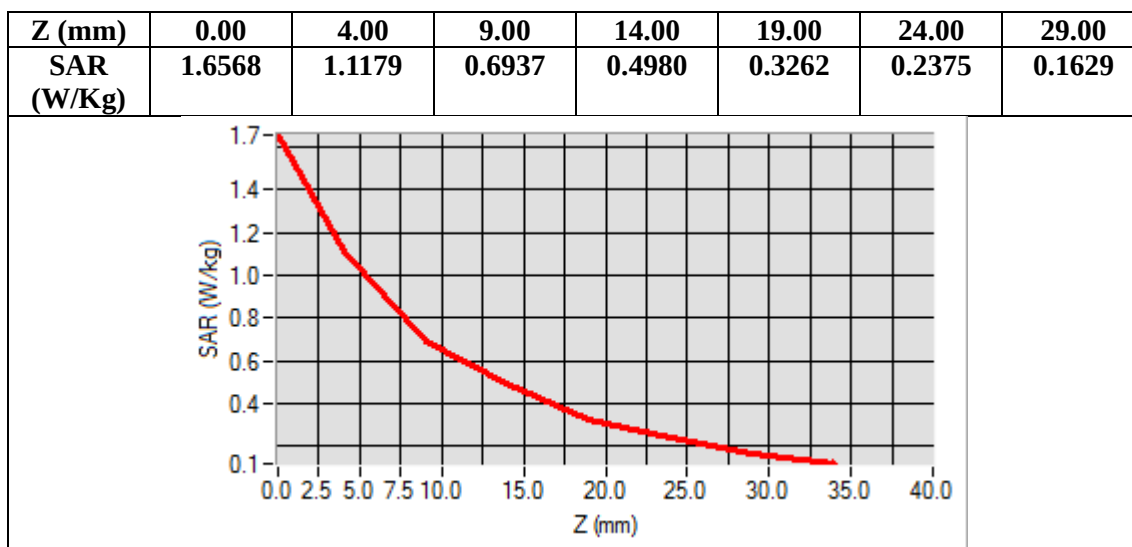
SAR 10g (W/Kg)	0.656623
SAR 1g (W/Kg)	1.058017

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Edge 2(RMC)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 19, 2023

Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.39;
Frequency: 1732.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 42.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 20.7

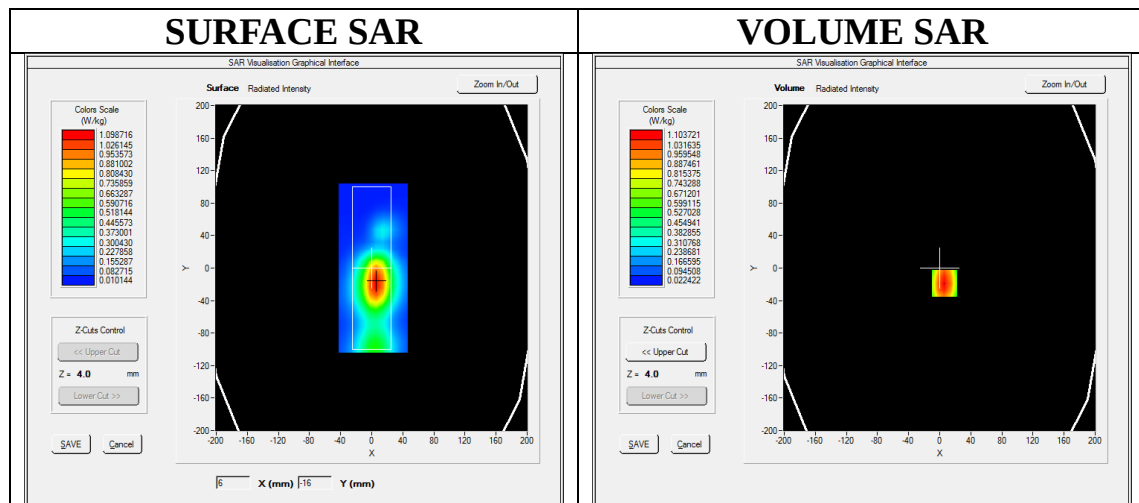
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band IV Mid-Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA band IV Mid-Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2
Band	WCDMA band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



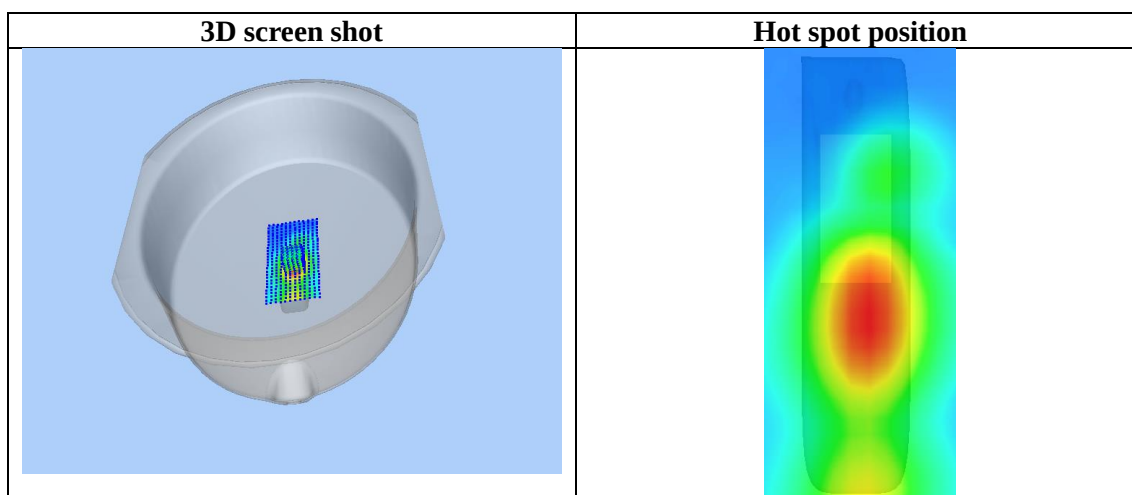
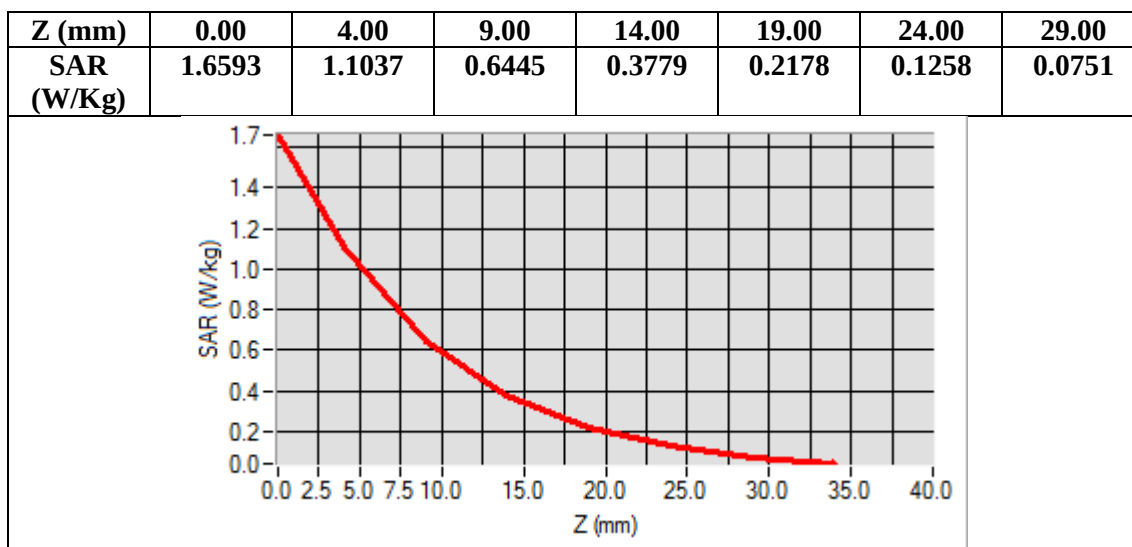
Maximum location: X=6.00, Y=-19.00

SAR Peak: 1.65 W/kg

SAR 10g (W/Kg)	0.611017
SAR 1g (W/Kg)	1.058538

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Test Laboratory: AGC Lab
LTE Band 2 High-Body-Front (1 RB#0)
DUT: Wireless Data Terminal ; **Type:** H10

Date: Aug. 20, 2023

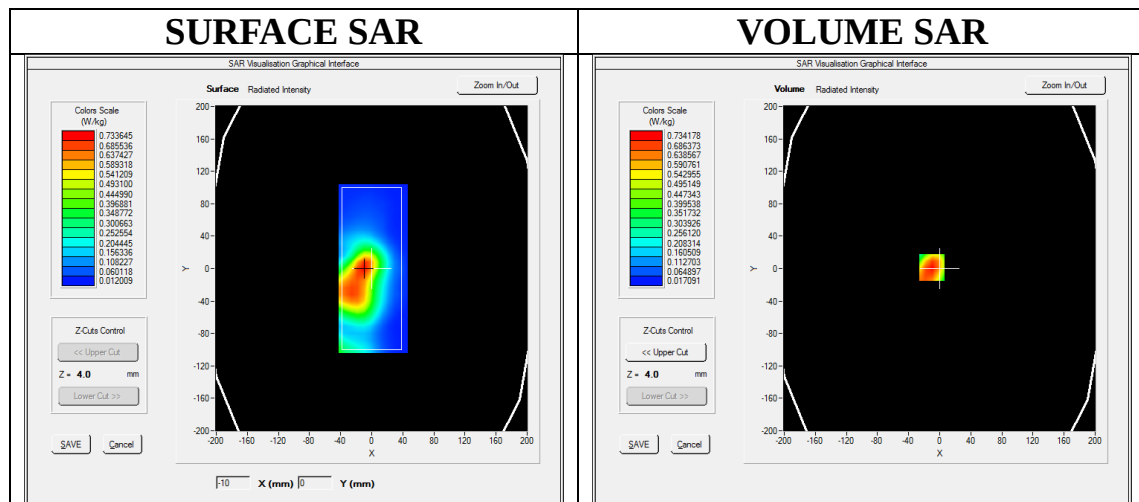
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.32;
Frequency: 1900MHz; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 39.13$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 High-Body-Front /Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ LTE Band 2 High-Body-Front /Zoom Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

Area Scan	$dx=8\text{mm}$ $dy=8\text{mm}$, $h= 5.00 \text{ mm}$
Zoom Scan	$5\times 5\times 7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 2
Channels	High
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=-10.00, Y=1.00

SAR Peak: 1.12 W/kg

SAR 10g (W/Kg)	0.405919
SAR 1g (W/Kg)	0.702549

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