
SAR Test Report

Report No.: AGC14246240303FH01

FCC ID : 2A9SNA140

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Smart phone

BRAND NAME : INOI

MODEL NAME : A140, A14

APPLICANT : INOI Limited

DATE OF ISSUE : Apr. 16, 2024

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	/	Apr. 16, 2024	Valid	Initial Release

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Test Report	
Applicant Name	INOI Limited
Applicant Address	Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Manufacturer Name	INOI Limited
Manufacturer Address	Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Factory Name	JZZL LIMITED
Factory Address	WORKSHOP 60, 3/F, BLOCK A, EAST SUN INDUSTRIAL CENTRE NO.16 SHING YIP STREET KOWLOON HONGKONG
Product Designation	Smart phone
Brand Name	INOI
Model Name	A140
Series model	A14
Different Description	One is the market name and the other is the market model.
EUT Voltage	DC3.85V 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	Mar. 22, 2024
Test Date	Mar. 28, 2024 to Apr. 02, 2024
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



Apr. 16, 2024

Jack Gui(Project Engineer)

Reviewed By

Calvin Liu (Reviewer)

Apr. 16, 2024



Approved By

Max Zhang (Authorized Officer)

Apr. 16, 2024

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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)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	0.055	0.138	0.106	
PCS 1900	0.108	0.354	0.274	
UMTS Band II	0.161	0.420	0.420	
UMTS Band IV	0.071	0.139	0.139	
UMTS Band V	0.062	0.133	0.133	
LTE Band 2	0.252	0.776	0.776	
LTE Band 4	0.093	0.204	0.204	
LTE Band 5	0.082	0.185	0.185	
LTE Band 7	0.198	0.659	0.659	
LTE Band 41	0.086	0.288	0.288	
WIFI 2.4G	0.315	0.091	0.091	
Simultaneous Reported SAR	0.881			
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	Smart phone
Test Model	A140
Sample ID	240322047
Hardware Version	V1.0
Software Version	INOLA140_EEA.TGo_V6.0_20240312_user
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS& EGPRS	
Support Band	<input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS 1900 <input type="checkbox"/> GSM 900 <input type="checkbox"/> 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 GSM/GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: -2.7dBi; PCS1900: 0.1dBi
Max. Average Power	GSM850: 34.45dBm; PCS1900: 30.59dBm
WCDMA	
Support Band	<input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V <input checked="" type="checkbox"/> UMTS FDD Band IV <input type="checkbox"/> UMTS FDD Band I <input type="checkbox"/> UMTS FDD Band III <input type="checkbox"/> 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	Release 6 and later
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 0.1dBi; Band IV: 0.3dBi; Band V: -2.7dBi
Max. Average Power	Band II: 23.67dBm; Band IV: 23.27 dBm; Band V: 23.88dBm
Bluetooth	
Bluetooth Version	V4.2
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input checked="" type="checkbox"/> II/4-DQPSK <input checked="" type="checkbox"/> 8-DPSK
Peak Power	6.60dBm
Antenna Gain	1dBi
WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 16.99dBm, 11g: 14.94dBm, 11n(20): 12.97dBm
Antenna Gain	1dBi

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EUT Description(Continue)

LTE	
Support Band	<input checked="" type="checkbox"/> FDD Band 2 <input type="checkbox"/> FDD Band 4 <input type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> TDD Band 41
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz; Band 5:824-849MHz; Band 7:2500-2570MHz; Band 41:2540-2650MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 41:2540-2650MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.1dBi; Band 4: 0.3dBi; Band 5: -2.7dBi; Band 7: 2.4dBi; Band 41: 2.4dBi;
Max. Average Power	Band 2: 24.38dBm; Band 4: 23.85dBm; Band 5: 24.94dBm; Band 7: 23.43dBm; Band 41: 23.40dBm;
Accessories	
Battery	Brand name: INOI Model No. : BP2214 Voltage and Capacitance: 3.85 V & 3850mAh
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
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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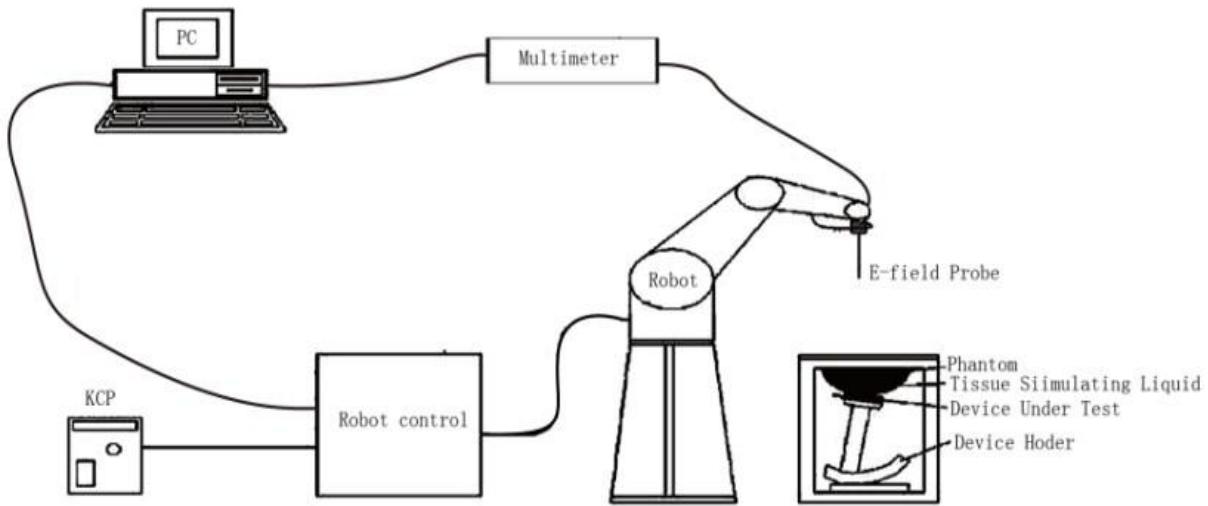
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3. SAR MEASUREMENT SYSTEM

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.	2023-EPGO-414
Frequency	0.15GHz-7.5GHz Linearity:±0.09dB(0.15GHz-7.5GHz)
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB
Dimensions	Overall length:330mm Length of individual dipoles:24.5mm Maximum external diameter:8mm Probe Tip external diameter:2.55mm Distance between dipoles/ probe extremity:12.7mm
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 precision 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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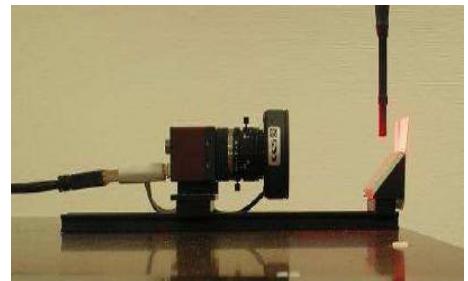
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3.4. Video Positioning System

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.

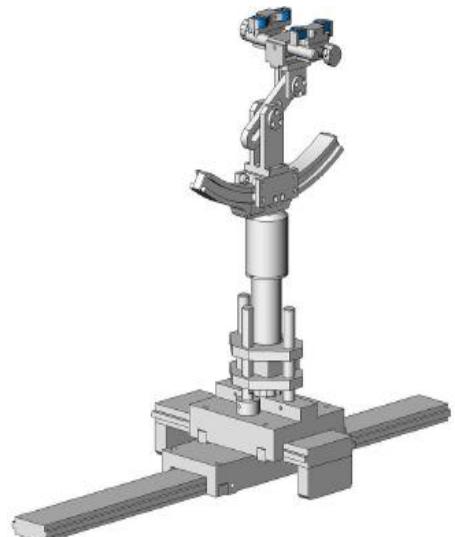


3.5. Device Holder

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.



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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.

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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:

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

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

SAR can be obtained using either of the following equations:

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

$$\text{SAR} = c_h \frac{dT}{dt} \Big|_{t=0}$$

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;

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

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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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	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.

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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	$\Delta z_{Zoom}(1): \text{between 1}^{\text{st}} \text{ two points closest to phantom surface}$ $\Delta z_{Zoom}(n>1): \text{between subsequent points}$	$\leq 4 \text{ mm}$ $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
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 reported SAR from the *area scan based 1-g SAR estimation* 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.

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4.3. RF Exposure Conditions

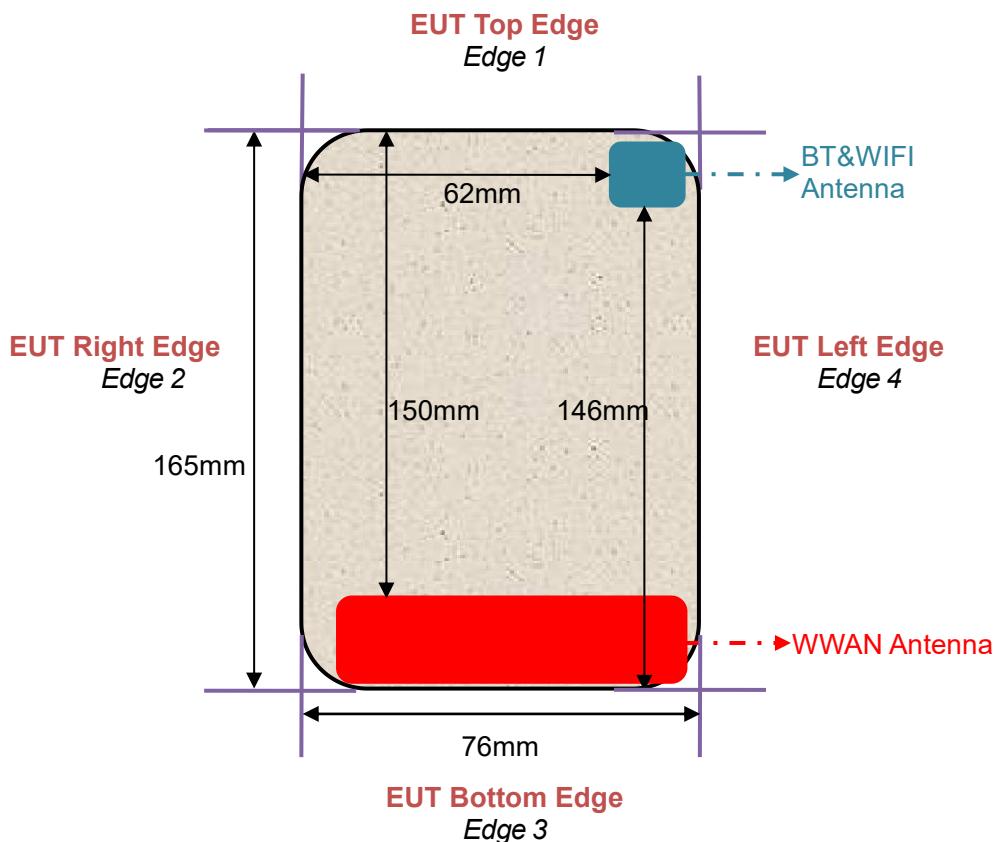
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/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: (the back view)



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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)	150mm	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)	4mm	Yes	--
Edge 3 (Bottom)	1mm	Yes	--
Edge 4 (Left)	2mm	Yes	--

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)	1mm	Yes	--
Edge 2 (Right)	62mm	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)	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)	1mm	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)	Water	NaCl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
Frequency (MHz)						
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97
2600 Head	55.242	0.306	0	44.452	0	0

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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

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000$ kg/m³

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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)		
	835	42.57	0.89	21.8	Mar. 30, 2024
	836.4	41.63	0.92		
	836.5	41.63	0.92		
	836.6	41.63	0.92		
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)		
	1732.4	40.39	1.39	21.1	Mar. 28, 2024
	1732.5	40.39	1.39		
	1750	39.61	1.41		
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)		
	1880	40.32	1.38	22.1	Mar. 29, 2024
	1900	39.60	1.41		
Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 39.2(35.28-43.12)	δ [s/m] 1.80(1.62-1.98)		
	2437	40.27	1.78	21.7	Mar. 31, 2024
	2450	39.74	1.81		
Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 39(35.1-42.9)	δ [s/m] 1.96(1.764-2.156)		
	2535	41.36	1.85	20.4	Apr. 02, 2024
	2593	40.03	1.88		
	2600	38.15	1.91		

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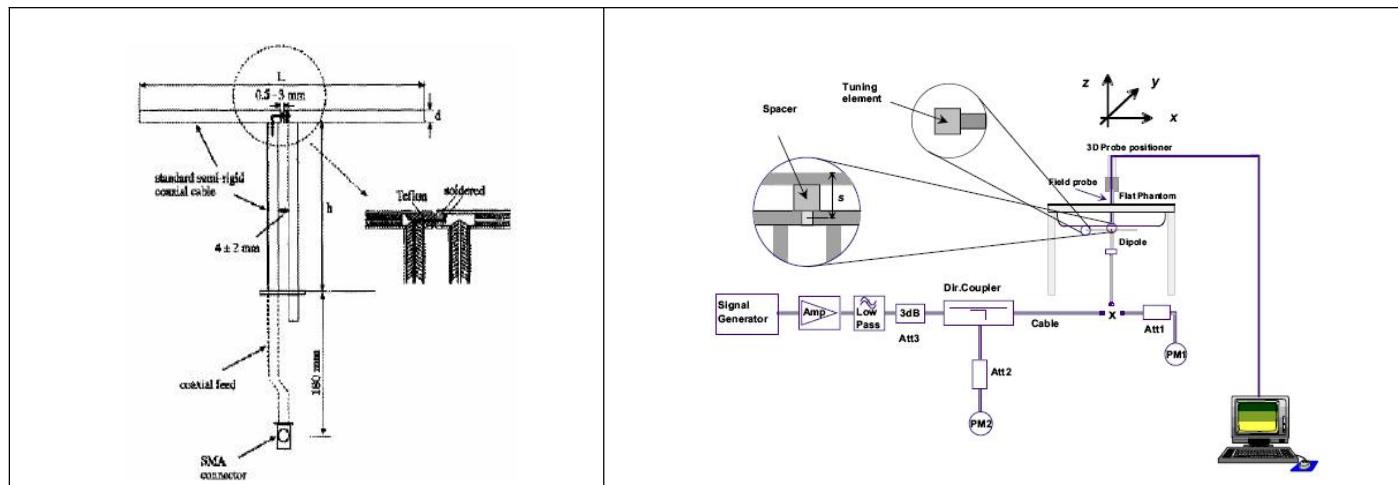
6. SAR SYSTEM CHECK PROCEDURE

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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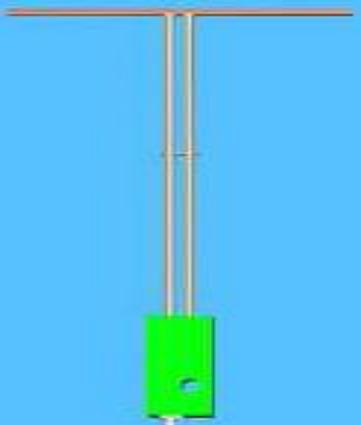
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6.2. SAR System Check

6.2.1. Dipoles



		<p>The dipoles used 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 dipoles.</p>
--	--	---

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
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6

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6.2.2. System Check Result

System Performance Check at 835MHz &1800MHz &1900MHz&2450MHz&2600MHz for Head								
Validation Kit: SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 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	9.37	5.89	21.8	Mar. 30, 2024
1800	37.76	19.60	33.984-41.536	17.640-21.560	36.69	18.96	21.1	Mar. 28, 2024
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.84	20.04	22.1	Mar. 29, 2024
2450	54.32	24.25	48.888-59.752	21.825-26.675	52.84	23.73	21.7	Mar. 31, 2024
2600	54.94	23.77	49.446-60.434	21.393-26.147	53.28	23.31	20.4	Apr. 02, 2024

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 ±10% of target value.

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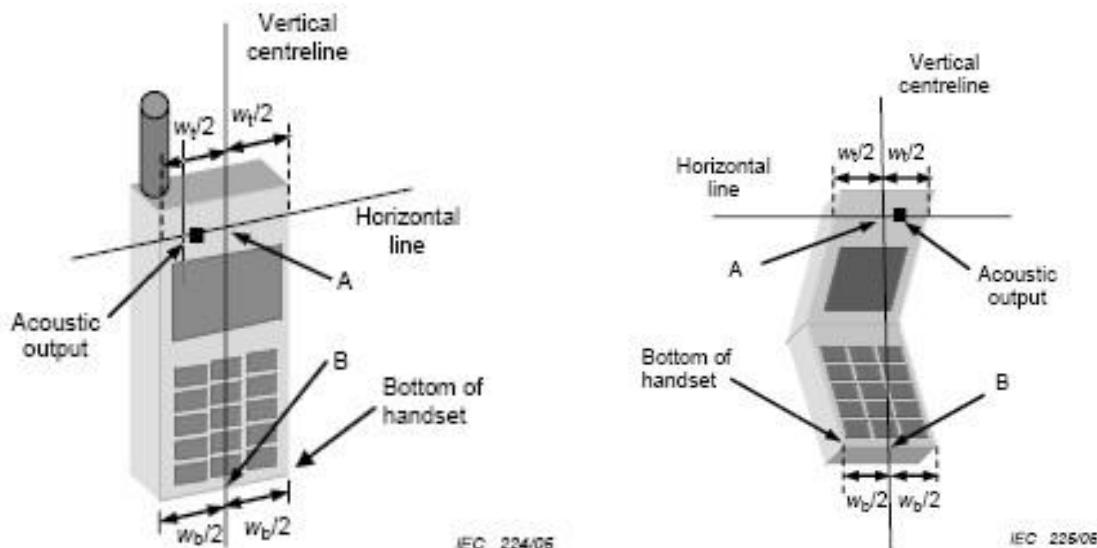
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7. EUT TEST POSITION

This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges**.

7.1. Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



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7.2. Cheek Position

- (1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



7.3. Tilt Position

- (1) To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



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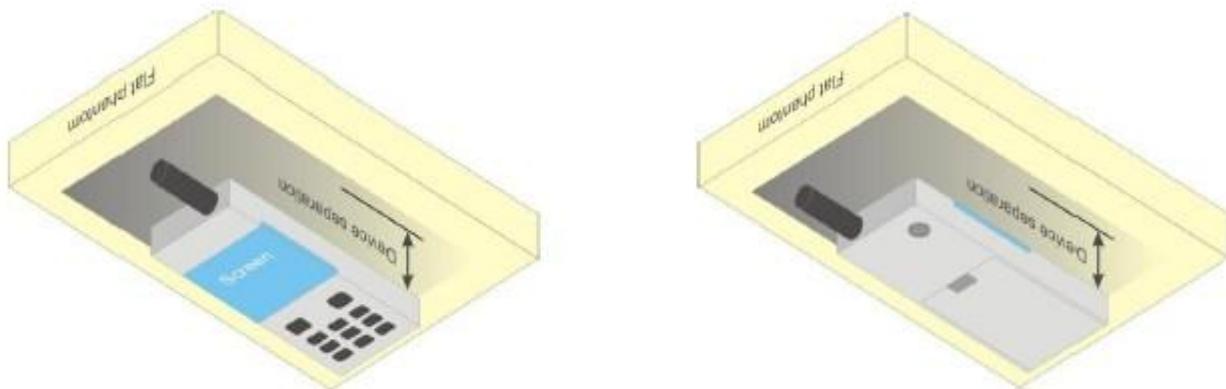
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7.4. Body Worn Position

- (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	2023-EPGO-414	N/A	May 31, 2023	May 30, 2024
Phantom	SATIMO	SN_4511_SAM90	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	1350784	N/A	Jun. 02, 2023	Jun. 01, 2024
SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	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 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
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	Sep. 21, 2023	Sep. 20, 2024
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	Feb. 01, 2024	Jan. 31, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Jun. 06, 2023	Jun. 05, 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	Nov. 11, 2023	Nov. 10, 2024

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- 2023-EPGO-414 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	1.695	R	1.732	0.707	0.707	0.692	0.692	∞
Hemispherical Isotropy	E.2.2	1.695	R	1.732	0.707	0.707	0.692	0.692	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	2.250	R	1.732	1	1	1.299	1.299	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E2.5	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				10.616	10.432	
Expanded Uncertainty (95% Confidence interval)			K=2				21.232	20.865	

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SATIMO Uncertainty- 2023-EPGO-414 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	1.695	R	1.732	1.000	1.000	0.979	0.979	∞
Hemispherical Isotropy	E.2.2	1.695	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	2.250	R	1.732	1.000	1.000	1.299	1.299	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E2.5	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				10.572	10.387	
Expanded Uncertainty (95% Confidence interval)			K=2				21.143	20.775	

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SATIMO Uncertainty- 2023-EPGO-414 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	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	1.695	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	1.695	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	2.250	R	$\sqrt{3}$	0	0	0	0	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0	0	∞
Modulation response	E2.5	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,E.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				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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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>				
GSM 850	824.2	34.45	-9	25.45
	836.6	34.40	-9	25.40
	848.8	34.24	-9	25.24
GPRS 850 (1 Slot)	824.2	34.38	-9	25.38
	836.6	34.38	-9	25.38
	848.8	34.22	-9	25.22
GPRS 850 (2 Slot)	824.2	32.04	-6	26.04
	836.6	31.95	-6	25.95
	848.8	31.68	-6	25.68
GPRS 850 (3 Slot)	824.2	30.05	-4.26	25.79
	836.6	29.99	-4.26	25.73
	848.8	29.67	-4.26	25.41
GPRS 850 (4 Slot)	824.2	27.79	-3	24.79
	836.6	27.76	-3	24.76
	848.8	27.33	-3	24.33
EGPRS 850 (1 Slot)	824.2	26.90	-9	17.90
	836.6	26.94	-9	17.94
	848.8	27.01	-9	18.01
EGPRS 850 (2 Slot)	824.2	26.10	-6	20.10
	836.6	25.87	-6	19.87
	848.8	25.84	-6	19.84
EGPRS 850 (3 Slot)	824.2	23.08	-4.26	18.82
	836.6	23.37	-4.26	19.11
	848.8	23.19	-4.26	18.93
EGPRS 850 (4 Slot)	824.2	20.81	-3	17.81
	836.6	20.50	-3	17.50
	848.8	20.48	-3	17.48

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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	30.48	-9	21.48
	1880	30.52	-9	21.52
	1909.8	30.59	-9	21.59
GPRS1900 (1 Slot)	1850.2	30.53	-9	21.53
	1880	30.58	-9	21.58
	1909.8	30.59	-9	21.59
GPRS1900 (2 Slot)	1850.2	27.76	-6	21.76
	1880	27.73	-6	21.73
	1909.8	27.74	-6	21.74
GPRS1900 (3 Slot)	1850.2	26.07	-4.26	21.81
	1880	26.02	-4.26	21.76
	1909.8	25.97	-4.26	21.71
GPRS1900 (4 Slot)	1850.2	24.01	-3	21.01
	1880	23.98	-3	20.98
	1909.8	23.97	-3	20.97
EGPRS1900 (1 Slot)	1850.2	26.62	-9	17.62
	1880	26.77	-9	17.77
	1909.8	26.64	-9	17.64
EGPRS1900 (2 Slot)	1850.2	25.16	-6	19.16
	1880	24.93	-6	18.93
	1909.8	25.04	-6	19.04
EGPRS1900 (3 Slot)	1850.2	22.68	-4.26	18.42
	1880	22.23	-4.26	17.97
	1909.8	22.54	-4.26	18.28
EGPRS1900 (4 Slot)	1850.2	20.02	-3	17.02
	1880	19.76	-3	16.76
	1909.8	19.81	-3	16.81

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

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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: Δ ACK, Δ NACK and Δ 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, Δ ACK and Δ NACK = 30/15 with $\beta_{hs} = 30/15 * \beta_c$, and Δ 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 $d = 15/15$.

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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} (Codes)	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	$\beta_{ED1}:$ 47/15 $\beta_{ED2}:$ 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, Δ ACK, Δ NACK and Δ CQI = 30/15 with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ ACK, Δ NACK and Δ 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.

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UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	23.46
	1880	23.43
	1907.6	23.67
HSDPA Subtest 1	1852.4	23.13
	1880	22.95
	1907.6	23.00
HSDPA Subtest 2	1852.4	22.76
	1880	22.72
	1907.6	22.75
HSDPA Subtest 3	1852.4	22.43
	1880	22.31
	1907.6	22.35
HSDPA Subtest 4	1852.4	22.36
	1880	22.30
	1907.6	22.25
HSUPA Subtest 1	1852.4	23.00
	1880	22.71
	1907.6	22.71
HSUPA Subtest 2	1852.4	22.97
	1880	22.89
	1907.6	22.89
HSUPA Subtest 3	1852.4	22.69
	1880	22.57
	1907.6	22.63
HSUPA Subtest 4	1852.4	22.90
	1880	22.90
	1907.6	22.94
HSUPA Subtest 5	1852.4	22.68
	1880	22.82
	1907.6	22.67

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UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	22.89
	1732.4	23.27
	1752.6	23.13
HSDPA Subtest 1	1712.4	22.96
	1732.4	22.71
	1752.6	22.84
HSDPA Subtest 2	1712.4	22.74
	1732.4	22.49
	1752.6	22.59
HSDPA Subtest 3	1712.4	22.20
	1732.4	22.13
	1752.6	22.18
HSDPA Subtest 4	1712.4	22.20
	1732.4	22.16
	1752.6	22.03
HSUPA Subtest 1	1712.4	22.78
	1732.4	22.58
	1752.6	22.71
HSUPA Subtest 2	1712.4	22.85
	1732.4	22.71
	1752.6	22.80
HSUPA Subtest 3	1712.4	22.56
	1732.4	22.34
	1752.6	22.22
HSUPA Subtest 4	1712.4	22.83
	1732.4	22.71
	1752.6	22.83
HSUPA Subtest 5	1712.4	22.65
	1732.4	22.42
	1752.6	22.50

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	23.39
	836.4	23.64
	846.6	23.78
HSDPA Subtest 1	826.4	23.88
	836.4	23.62
	846.6	23.35
HSDPA Subtest 2	826.4	23.65
	836.4	23.36
	846.6	23.02
HSDPA Subtest 3	826.4	23.39
	836.4	23.09
	846.6	22.85
HSDPA Subtest 4	826.4	23.18
	836.4	22.99
	846.6	22.64
HSUPA Subtest 1	826.4	23.70
	836.4	23.49
	846.6	23.28
HSUPA Subtest 2	826.4	23.82
	836.4	23.63
	846.6	23.39
HSUPA Subtest 3	826.4	23.56
	836.4	23.52
	846.6	23.06
HSUPA Subtest 4	826.4	23.75
	836.4	23.63
	846.6	23.35
HSUPA Subtest 5	826.4	23.35
	836.4	23.39
	846.6	23.19

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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≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for $\beta_d/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. 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.

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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 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

$Ts = 1/(15000 \times 2048)$ 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	23.99	23.77	23.79
			3	0	24.07	23.81	23.85
			5	0	24.04	23.81	23.77
		3	0	0	23.83	23.95	23.74
			2	0	23.91	23.87	23.74
			3	0	23.97	23.94	23.83
	16QAM	6	0	1	22.92	22.94	22.89
		1	0	1	23.92	23.01	23.13
			3	1	23.93	23.05	23.20
			5	1	23.94	22.98	23.22
3MHz	QPSK	1	0	1	23.13	22.98	23.22
			2	1	23.13	22.96	23.25
			3	1	23.15	22.95	23.21
		6	0	2	22.10	21.86	22.12
	16QAM	8	0	1	23.00	22.94	22.86
			4	1	23.07	22.95	22.75
			7	1	23.07	22.85	22.85
		15	0	1	23.02	22.90	22.78
	16QAM	1	0	1	23.98	23.01	23.11
			7	1	24.02	22.98	23.16
			14	1	24.15	22.97	23.21
		8	0	2	21.97	22.00	21.87
			4	2	22.01	21.99	21.94
			7	2	22.06	22.01	21.95
		15	0	2	22.13	21.79	21.97

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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	23.75	23.89	23.86
			13	0	23.76	23.82	23.89
			24	0	23.87	23.85	23.82
		12	0	1	22.89	22.85	22.88
			6	1	22.96	22.93	22.94
	16QAM		13	1	23.09	22.81	22.80
	1	0	1	23.03	22.89	22.87	
		13	1	23.09	22.63	22.91	
		24	1	23.18	22.58	22.86	
	12	0	2	23.14	22.51	22.84	
		6	2	21.94	21.75	21.90	
		13	2	22.04	21.81	21.91	
		25	0	22.09	21.85	21.83	
		25	0	22.11	21.99	21.87	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	23.90	23.98	24.02
			25	0	23.96	23.93	23.95
			49	0	24.09	23.97	23.93
		25	0	1	22.95	22.98	22.92
			13	1	22.94	22.95	22.87
			25	1	23.09	22.93	22.94
			50	0	23.03	22.96	22.92
	16QAM	1	0	1	24.09	22.97	22.85
			25	1	24.18	23.00	22.91
			49	1	24.25	22.91	22.88
		25	0	2	22.03	22.03	22.03
			13	2	22.06	21.99	22.30
			25	2	22.15	22.00	21.96
			50	0	22.13	21.97	22.40

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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	23.93	23.85	23.87
			38	0	24.03	23.86	23.89
			74	0	24.17	23.82	23.84
		36	0	1	22.85	22.84	22.88
			18	1	23.14	22.93	22.97
	16QAM		39	1	23.16	22.82	22.85
	75	0	1	23.04	22.88	22.91	
	1	0	1	24.12	23.66	23.56	
		38	1	24.25	23.65	23.64	
		74	1	24.38	23.61	23.51	
	36	0	2	22.11	22.13	22.01	
		18	2	22.14	22.07	22.01	
		39	2	22.13	22.08	21.95	
	75	0	2	22.22	21.88	22.06	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	23.90	24.18	23.92
			50	0	23.99	23.97	23.99
			99	0	24.10	24.20	23.94
		50	0	1	22.96	22.88	22.86
			25	1	23.07	22.92	23.06
			50	1	23.18	22.87	22.99
			100	0	23.00	22.98	23.05
	16QAM	1	0	1	22.63	22.72	23.19
			50	1	22.73	22.61	23.37
			99	1	22.78	22.59	23.20
		50	0	2	22.19	22.03	21.93
			25	2	22.26	21.99	22.10
			50	2	22.24	21.90	22.45
			100	0	22.19	21.97	22.04

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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	23.49	23.70	23.32
			3	0	23.43	23.70	23.31
			5	0	23.42	23.65	23.31
		3	0	0	23.44	23.47	23.45
			2	0	23.49	23.54	23.50
			3	0	23.43	23.50	23.42
	16QAM	6	0	1	22.47	22.63	22.46
		1	0	1	22.79	23.44	23.13
			3	1	22.81	23.70	22.98
			5	1	22.76	23.70	23.02
3MHz	QPSK	1	0	1	22.90	22.95	22.82
			2	1	22.91	22.90	22.73
			3	1	22.87	22.99	22.81
		6	0	2	21.77	21.91	21.37
	16QAM	8	0	1	22.38	22.46	22.38
			4	1	22.52	22.71	22.39
			7	1	22.38	22.78	22.34
		15	0	1	22.47	22.75	22.51
	16QAM	1	0	1	23.54	23.26	22.87
			7	1	23.52	23.42	23.05
			14	1	23.41	23.49	22.84
		8	0	2	21.48	21.89	21.53
			4	2	21.47	21.98	21.48
			7	2	21.34	21.99	21.42
		15	0	2	21.66	21.89	21.55

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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	23.41	23.54	23.37
			13	0	23.13	23.61	23.31
			24	0	23.17	23.70	23.31
		12	0	1	22.45	22.56	22.47
			6	1	22.30	22.60	22.52
	16QAM		13	1	22.33	22.66	22.43
	25	0	1	22.29	22.63	22.48	
		0	1	22.62	22.22	22.64	
		13	1	22.47	22.39	22.67	
		24	1	22.48	22.36	22.63	
10MHz	QPSK	1	0	2	21.46	21.57	21.58
			6	2	21.33	21.57	21.55
			13	2	21.28	21.73	21.49
		25	0	2	21.48	21.84	21.55
			0	1	23.51	23.56	23.74
	16QAM	1	25	0	23.24	23.71	23.64
			49	0	23.31	23.83	23.61
		25	0	1	22.38	22.40	22.56
			13	1	22.30	22.62	22.56
			25	1	22.20	22.76	22.59

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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	23.46	23.55	23.84
			38	0	23.21	23.69	23.78
			74	0	23.33	23.83	23.67
		36	0	1	22.25	22.58	22.57
			18	1	22.23	22.68	22.55
	16QAM		39	1	22.38	22.67	22.50
	75	0	1	22.29	22.61	22.63	
	1	0	1	23.54	22.36	23.45	
		38	1	23.34	22.76	23.26	
		74	1	23.52	22.89	23.17	
	36	0	2	21.35	21.72	21.76	
		18	2	21.49	21.93	21.75	
		39	2	21.47	21.85	21.55	
	75	0	2	21.47	21.80	21.83	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	23.41	23.28	23.73
			50	0	23.20	23.62	23.68
			99	0	23.52	23.85	23.54
		50	0	1	22.23	22.43	22.74
			25	1	22.38	22.71	22.71
			50	1	22.35	22.82	22.62
			100	0	22.39	22.70	22.51
	16QAM	1	0	1	22.15	22.39	23.06
			50	1	21.95	22.83	23.06
			99	1	22.30	22.99	22.98
		50	0	2	21.40	21.46	21.81
			25	2	21.83	21.74	21.80
			50	2	21.54	21.84	21.72
			100	0	21.88	21.67	21.58

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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	24.21	24.27	24.78
			3	0	24.22	24.36	24.87
			5	0	24.24	24.34	24.77
		3	0	0	24.14	24.38	24.70
			2	0	24.21	24.46	24.77
			3	0	24.18	24.43	24.70
	16QAM	6	0	1	23.21	23.34	23.78
		1	0	1	24.03	24.06	24.94
			3	1	24.10	24.12	24.85
			5	1	24.10	24.13	24.50
		3	0	1	23.34	23.53	24.08
			2	1	23.29	23.46	24.10
			3	1	23.35	23.47	24.07
		6	0	2	22.23	22.30	22.96
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	24.03	24.30	24.77
			7	0	24.03	24.36	24.76
			14	0	24.06	24.43	24.80
		8	0	1	23.21	23.44	23.80
			4	1	23.09	23.40	23.70
			7	1	23.20	23.44	23.66
	16QAM	15	0	1	23.13	23.45	23.84
		1	0	1	24.01	24.01	24.80
			7	1	24.01	24.12	24.76
			14	1	24.00	24.14	24.67
		8	0	2	22.04	22.62	23.19
			4	2	21.92	22.65	23.10
			7	2	22.09	22.61	22.77
		15	0	2	22.11	22.49	23.12

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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	23.98	24.33	24.69
			13	0	23.91	24.52	24.63
			24	0	24.01	24.55	24.69
		12	0	1	23.19	23.42	23.70
			6	1	23.06	23.42	23.72
	16QAM		13	1	23.17	23.48	23.76
	1	0	1	23.04	23.46	23.76	
		0	1	23.22	23.38	23.77	
		13	1	23.22	23.52	23.79	
		24	1	23.19	23.66	23.70	
10MHz	QPSK	1	0	2	21.92	22.22	23.12
			6	2	22.08	22.28	23.13
			13	2	22.07	22.28	23.16
		12	0	2	22.13	22.44	23.14
			25	0	22.13	22.44	23.14
	16QAM	1	0	0	24.14	24.27	24.49
			25	0	24.09	24.43	24.64
			49	0	24.27	24.71	24.85
		25	0	1	23.16	23.31	23.51
			13	1	23.02	23.41	23.74
			25	1	23.17	23.49	23.79
		50	0	1	23.10	23.42	23.64
		1	0	1	24.20	23.17	23.44
			25	1	24.16	23.41	23.57
			49	1	24.31	23.61	23.72
	16QAM	25	0	2	22.08	22.41	23.04
			13	2	21.95	22.47	23.15
			25	2	22.52	22.92	23.18
		50	0	2	22.05	22.51	23.10

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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	23.24	22.99	22.95
			12	0	23.26	22.99	22.91
			24	0	23.34	22.97	22.99
		12	0	1	22.25	21.97	22.11
			6	1	22.23	22.10	22.14
	16QAM	1	13	1	22.29	22.00	22.08
			25	0	22.29	21.99	22.03
		12	0	1	21.98	22.08	22.11
			12	1	21.93	22.10	22.11
			24	1	22.06	22.13	22.07
10MHz	QPSK	1	0	2	21.00	21.07	20.97
			6	2	21.20	21.08	20.89
			13	2	21.23	21.07	20.99
		12	0	2	21.31	21.02	21.20
			25	0	2	21.31	21.02
	16QAM	1	0	1	23.15	23.09	23.04
			24	0	23.25	22.99	23.02
			49	0	23.24	23.07	23.16
		25	0	1	22.21	21.96	22.13
			12	1	22.38	22.00	22.09
			25	1	22.21	22.14	22.04
		50	0	1	22.29	22.05	22.04
	16QAM	1	0	1	23.24	22.12	21.98
			24	1	23.43	22.04	21.97
			49	1	23.38	22.19	22.03
		25	0	2	21.15	21.19	21.13
			12	2	21.28	21.15	21.20
			25	2	21.22	21.16	21.14
		50	0	2	21.28	21.22	21.06

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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	23.09	23.04	23.15
			37	0	23.14	22.96	23.10
			74	0	23.22	23.15	23.24
		37	0	1	22.32	21.95	22.10
			16	1	22.13	22.06	21.93
			35	1	22.16	22.07	22.03
	16QAM	75	0	1	22.17	21.93	22.07
		1	0	1	23.29	22.06	23.02
			37	1	23.39	22.18	22.92
			74	1	23.39	22.26	23.00
		37	0	2	21.32	21.21	21.11
			16	2	21.32	21.22	21.07
			35	2	21.30	21.35	21.10
		75	0	2	21.32	21.10	21.15
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	23.07	22.94	23.31
			49	0	23.16	23.05	23.30
			99	0	23.19	23.20	23.33
		50	0	1	22.22	22.05	22.19
			25	1	22.25	22.00	22.12
			49	1	22.24	22.19	22.04
		100	0	1	22.23	21.96	22.14
	16QAM	1	0	1	22.36	22.26	22.05
			49	1	22.42	22.37	22.07
			99	1	22.36	22.58	21.99
		50	0	2	21.39	21.08	21.12
			25	2	21.32	21.14	21.19
			49	2	21.37	21.26	21.11
		100	0	2	21.22	21.00	21.22

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Conducted Power of LTE Band 41(dBm)									
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel				
					40115	40378	40640	40903	41165
5MHz	QPSK	1	0	0	23.15	22.70	22.76	22.31	23.11
			12	0	23.05	22.60	22.77	22.33	23.21
			25	0	23.14	22.69	22.70	22.26	23.20
		12	0	1	21.98	21.55	21.77	21.34	21.96
			6	1	22.07	21.65	21.90	21.46	22.05
			13	1	22.07	21.64	21.69	21.27	22.06
	16QAM	25	0	1	22.04	21.61	21.74	21.32	22.14
		1	0	1	21.69	21.27	22.16	21.72	21.70
			12	1	21.79	21.36	22.17	21.74	22.28
			25	1	21.78	21.35	22.07	21.64	21.93
		12	0	2	20.97	20.55	20.94	20.53	21.03
			6	2	21.05	20.64	20.84	20.43	21.02
			13	2	20.94	20.53	20.91	20.50	21.07
		25	0	2	21.27	20.86	21.14	20.72	21.32
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel				
					40140	40390	40640	40890	41140
10MHz	QPSK	1	0	0	23.11	22.66	22.92	22.47	23.00
			25	0	23.21	22.76	22.98	22.52	23.07
			50	0	23.26	22.81	22.91	22.46	23.29
		25	0	1	22.01	21.59	21.79	21.37	22.06
			12	1	21.92	21.48	21.82	21.40	22.02
			25	1	22.09	21.65	21.75	21.32	22.14
	16QAM	50	0	1	22.01	21.58	21.82	21.39	22.05
		1	0	1	22.42	21.98	21.52	21.11	22.49
			25	1	22.30	21.86	21.63	21.21	22.97
			50	1	22.54	22.10	21.85	21.42	22.90
		25	0	2	21.07	20.66	20.85	20.45	21.17
			12	2	21.06	20.65	20.83	20.42	21.09
			25	2	21.12	20.72	20.75	20.34	21.24
		50	0	2	21.29	20.88	20.94	20.54	21.18

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Conducted Power of LTE Band 41(dBm)									
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel				
					40165	40403	40640	40878	41115
15MHz	QPSK	1	0	0	23.20	22.74	22.99	22.53	22.69
			37	0	23.17	22.72	22.97	22.53	22.87
			74	0	23.17	22.71	22.87	22.42	22.98
		36	0	1	22.06	21.62	21.97	21.54	22.02
			19	1	22.09	21.66	21.77	21.34	22.06
			38	1	22.00	21.58	21.75	21.33	22.06
	16QAM	75	0	1	22.02	21.59	21.85	21.42	22.11
		1	0	1	22.63	22.18	21.79	21.37	22.40
			37	1	22.64	22.19	21.55	21.13	22.13
			74	1	22.58	22.14	21.41	21.00	22.26
	16QAM	36	0	2	21.09	20.69	21.07	20.67	20.95
			19	2	21.12	20.70	21.09	20.67	21.03
			38	2	21.06	20.65	21.04	20.63	21.06
		75	0	2	21.09	20.68	21.01	20.60	21.35
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel				
					40190	40415	40640	40890	41140
20MHz	QPSK	1	0	0	23.11	22.66	23.06	22.60	22.99
			49	0	23.11	22.67	22.99	22.53	23.13
			99	0	23.04	22.58	22.93	22.48	23.40
		50	0	1	22.10	21.66	21.84	21.42	22.07
			25	1	22.05	21.61	21.78	21.35	22.05
			50	1	22.02	21.59	21.82	21.39	22.10
	16QAM	100	0	1	21.99	21.56	21.74	21.32	22.03
		1	0	1	21.77	21.35	22.06	21.62	21.82
			49	1	21.73	21.31	21.64	21.21	21.60
			99	1	22.46	22.01	22.17	21.74	22.80
	16QAM	50	0	2	21.19	20.78	20.98	20.58	21.15
			25	2	21.19	20.77	20.83	20.42	21.16
			50	2	21.24	20.83	20.80	20.39	21.33
		100	0	2	21.01	20.61	20.92	20.51	21.14

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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	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
	6.6.3.3.3.2				
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
				Table 6.2.4.3-3	
NS_10		20	15, 20	Table 6.2.4.3-3	
NS_11	6.6.2.2.1	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
	6.6.3.3.13				
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		
NS_17	6.6.3.3.10	28	5, 10	Table 5.4.2-1	N/A
			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	14.76
		06	2437	16.99
		11	2462	13.43
802.11g	6	01	2412	10.15
		06	2437	14.94
		11	2462	13.42
802.11n(20)	6.5	01	2412	8.19
		06	2437	12.97
		11	2462	11.62

Bluetooth_V4.2(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	2.60
	39	2441	4.17
	78	2480	4.49
$\pi/4$ -DQPSK	0	2402	4.56
	39	2441	6.04
	78	2480	6.32
8-DPSK	0	2402	4.94
	39	2441	6.37
	78	2480	6.60

Bluetooth_V4.2(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	1.51
	19	2440	3.11
	39	2480	3.44

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, 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 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected is not required.
5. 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.
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.
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

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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 (%): 61.0													
Product: Smart phone																
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																
Left Cheek	voice	190	836.6	-0.31	0.041	34.50	34.40	0.042	1.6							
Left Tilt	voice	190	836.6	0.17	0.027	34.50	34.40	0.028	1.6							
Right Cheek	voice	190	836.6	-0.30	0.054	34.50	34.40	0.055	1.6							
Right Tilt	voice	190	836.6	-0.33	0.028	34.50	34.40	0.029	1.6							
Body back	voice	190	836.6	-0.06	0.135	34.50	34.40	0.138	1.6							
Body front	voice	190	836.6	0.02	0.033	34.50	34.40	0.034	1.6							
Body back	GPRS-2 slot	190	836.6	-0.20	0.093	32.50	31.95	0.106	1.6							
Body front	GPRS-2 slot	190	836.6	0.10	0.022	32.50	31.95	0.025	1.6							
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.30	0.062	32.50	31.95	0.070	1.6							
Edge 3(Bottom)	GPRS-2 slot	190	836.6	-0.07	0.042	32.50	31.95	0.048	1.6							
Edge 4(Left)	GPRS-2 slot	190	836.6	0.08	0.018	32.50	31.95	0.020	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																
Depth of Liquid (cm):>15			Relative Humidity (%): 59.4													
Product: Smart phone																
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																
Left Cheek	voice	661	1880.0	-0.12	0.097	31.00	30.52	0.108	1.6							
Left Tilt	voice	661	1880.0	0.27	0.045	31.00	30.52	0.050	1.6							
Right Cheek	voice	661	1880.0	-0.06	0.062	31.00	30.52	0.069	1.6							
Right Tilt	voice	661	1880.0	-0.23	0.043	31.00	30.52	0.048	1.6							
Body back	voice	661	1880.0	-0.25	0.317	31.00	30.52	0.354	1.6							
Body front	voice	661	1880.0	0.06	0.125	31.00	30.52	0.140	1.6							
Body back	GPRS-3 slot	661	1880	-0.25	0.245	26.50	26.02	0.274	1.6							
Body front	GPRS-3 slot	661	1880.0	0.19	0.110	26.50	26.02	0.123	1.6							
Edge 2(Right)	GPRS-3 slot	661	1880.0	-0.27	0.008	26.50	26.02	0.009	1.6							
Edge 3(Bottom)	GPRS-3 slot	661	1880.0	-0.18	0.070	26.50	26.02	0.078	1.6							
Edge 4(Left)	GPRS-3 slot	661	1880.0	-0.17	0.148	26.50	26.02	0.165	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																
Depth of Liquid (cm):>15			Relative Humidity (%): 59.4													
Product: Smart phone																
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)							
Left Cheek	RMC 12.2kbps	9400	1880	-0.05	0.141	24.00	23.43	0.161	1.6							
Left Tilt	RMC 12.2kbps	9400	1880	0.06	0.050	24.00	23.43	0.057	1.6							
Right Cheek	RMC 12.2kbps	9400	1880	-0.12	0.092	24.00	23.43	0.105	1.6							
Right Tilt	RMC 12.2kbps	9400	1880	-0.22	0.053	24.00	23.43	0.060	1.6							
Body back	RMC 12.2kbps	9400	1880	0.25	0.368	24.00	23.43	0.420	1.6							
Body front	RMC 12.2kbps	9400	1880	-0.06	0.179	24.00	23.43	0.204	1.6							
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.07	0.012	24.00	23.43	0.014	1.6							
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.17	0.084	24.00	23.43	0.096	1.6							
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.04	0.199	24.00	23.43	0.227	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																
Depth of Liquid (cm):>15			Relative Humidity (%): 53.3													
Product: Smart phone																
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)							
Left Cheek	RMC 12.2kbps	8662	1732.4	-0.02	0.067	23.50	23.27	0.071	1.6							
Left Tilt	RMC 12.2kbps	8662	1732.4	0.12	0.037	23.50	23.27	0.039	1.6							
Right Cheek	RMC 12.2kbps	8662	1732.4	-0.32	0.044	23.50	23.27	0.046	1.6							
Right Tilt	RMC 12.2kbps	8662	1732.4	-0.17	0.042	23.50	23.27	0.044	1.6							
Body back	RMC 12.2kbps	8662	1732.4	0.13	0.132	23.50	23.27	0.139	1.6							
Body front	RMC 12.2kbps	8662	1732.4	0.15	0.083	23.50	23.27	0.088	1.6							
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	0.16	0.017	23.50	23.27	0.018	1.6							
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.4	-0.33	0.055	23.50	23.27	0.058	1.6							
Edge 4(Left)	RMC 12.2kbps	8662	1732.4	0.19	0.089	23.50	23.27	0.094	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																
Depth of Liquid (cm):>15			Relative Humidity (%): 61.0													
Product: Smart phone																
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)							
Left Cheek	RMC 12.2kbps	4183	836.4	-0.28	0.043	24.00	23.64	0.047	1.6							
Left Tilt	RMC 12.2kbps	4183	836.4	0.10	0.029	24.00	23.64	0.032	1.6							
Right Cheek	RMC 12.2kbps	4183	836.4	-0.26	0.057	24.00	23.64	0.062	1.6							
Right Tilt	RMC 12.2kbps	4183	836.4	-0.09	0.031	24.00	23.64	0.034	1.6							
Body back	RMC 12.2kbps	4183	836.4	0.29	0.122	24.00	23.64	0.133	1.6							
Body front	RMC 12.2kbps	4183	836.4	-0.33	0.039	24.00	23.64	0.042	1.6							
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.13	0.058	24.00	23.64	0.063	1.6							
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	-0.15	0.042	24.00	23.64	0.046	1.6							
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.06	0.018	24.00	23.64	0.020	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																			
Depth of Liquid (cm):>15				Relative Humidity (%): 59.4															
Product: Smart phone																			
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)							
20	QPSK	Left Cheek	1	0	18900	1880	-0.32	0.234	24.50	24.18	0.252	1.6							
		Left Tilt	1	0	18900	1880	0.04	0.102	24.50	24.18	0.110	1.6							
		Right Cheek	1	0	18900	1880	-0.11	0.170	24.50	24.18	0.183	1.6							
		Right Tilt	1	0	18900	1880	-0.23	0.094	24.50	24.18	0.101	1.6							
		Body back	1	0	18900	1880	0.10	0.721	24.50	24.18	0.776	1.6							
		Body front	1	0	18900	1880	0.02	0.292	24.50	24.18	0.314	1.6							
		Edge 2(Right)	1	0	18900	1880	0.08	0.021	24.50	24.18	0.023	1.6							
		Edge 3(Bottom)	1	0	18900	1880	-0.21	0.151	24.50	24.18	0.163	1.6							
		Edge 4(Left)	1	0	18900	1880	0.05	0.337	24.50	24.18	0.363	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																					
Depth of Liquid (cm):>15				Relative Humidity (%): 53.3																	
Product: Smart phone																					
Test Mode: LTE Band 4																					
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift ($<\pm 5\%$)	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	Left Cheek	1	0	20175	1732.5	-0.03	0.079	24.00	23.28	0.093	1.6									
		Left Tilt	1	0	20175	1732.5	-0.26	0.047	24.00	23.28	0.055	1.6									
		Right Cheek	1	0	20175	1732.5	0.27	0.053	24.00	23.28	0.063	1.6									
		Right Tilt	1	0	20175	1732.5	-0.16	0.051	24.00	23.28	0.060	1.6									
		Body back	1	0	20175	1732.5	-0.25	0.173	24.00	23.28	0.204	1.6									
		Body front	1	0	20175	1732.5	0.02	0.096	24.00	23.28	0.113	1.6									
		Edge 2(Right)	1	0	20175	1732.5	-0.33	0.015	24.00	23.28	0.018	1.6									
		Edge 3(Bottom)	1	0	20175	1732.5	-0.03	0.062	24.00	23.28	0.073	1.6									
		Edge 4(Left)	1	0	20175	1732.5	0.04	0.108	24.00	23.28	0.127	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																			
Depth of Liquid (cm):>15				Relative Humidity (%): 61.0															
Product: Smart phone																			
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)							
10	QPSK	Left Cheek	1	0	20525	836.5	-0.05	0.058	25.00	24.27	0.069	1.6							
		Left Tilt	1	0	20525	836.5	0.11	0.036	25.00	24.27	0.043	1.6							
		Right Cheek	1	0	20525	836.5	-0.18	0.069	25.00	24.27	0.082	1.6							
		Right Tilt	1	0	20525	836.5	-0.08	0.031	25.00	24.27	0.037	1.6							
		Body back	1	0	20525	836.5	0.20	0.156	25.00	24.27	0.185	1.6							
		Body front	1	0	20525	836.5	0.16	0.100	25.00	24.27	0.118	1.6							
		Edge 2(Right)	1	0	20525	836.5	0.05	0.077	25.00	24.27	0.091	1.6							
		Edge 3(Bottom)	1	0	20525	836.5	0.33	0.051	25.00	24.27	0.060	1.6							
		Edge 4(Left)	1	0	20525	836.5	-0.11	0.031	25.00	24.27	0.037	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																			
Depth of Liquid (cm):>15				Relative Humidity (%): 59.2															
Product: Smart phone																			
Test Mode: LTE Band 7																			
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift ($\pm 5\%$)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)							
20	QPSK	Left Cheek	UL RB Allocation	UL RB START	21100	2535	-0.04	0.174	23.50	22.94	0.198	1.6							
		Left Tilt	1	0	21100	2535	0.09	0.086	23.50	22.94	0.098	1.6							
		Right Cheek	1	0	21100	2535	-0.17	0.092	23.50	22.94	0.105	1.6							
		Right Tilt	1	0	21100	2535	-0.16	0.119	23.50	22.94	0.135	1.6							
		Body back	1	0	21100	2535	0.06	0.579	23.50	22.94	0.659	1.6							
		Body front	1	0	21100	2535	-0.29	0.284	23.50	22.94	0.323	1.6							
		Edge 2(Right)	1	0	21100	2535	0.09	0.034	23.50	22.94	0.039	1.6							
		Edge 3(Bottom)	1	0	21100	2535	-0.23	0.171	23.50	22.94	0.195	1.6							
		Edge 4(Left)	1	0	21100	2535	0.18	0.343	23.50	22.94	0.390	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 4 Edges is 10mm of all above table.

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SAR MEASUREMENT																			
Depth of Liquid (cm):>15				Relative Humidity (%): 59.2															
Product: Smart phone																			
Test Mode: LTE Band 41																			
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)							
20	QPSK	Left Cheek	1	0	40620	2593	-0.11	0.078	23.50	23.06	0.086	1.6							
		Left Tilt	1	0	40620	2593	0.32	0.044	23.50	23.06	0.049	1.6							
		Right Cheek	1	0	40620	2593	-0.22	0.048	23.50	23.06	0.053	1.6							
		Right Tilt	1	0	40620	2593	-0.14	0.046	23.50	23.06	0.051	1.6							
		Body back	1	0	40620	2593	0.33	0.260	23.50	23.06	0.288	1.6							
		Body front	1	0	40620	2593	-0.03	0.137	23.50	23.06	0.152	1.6							
		Edge 2(Right)	1	0	40620	2593	-0.17	0.021	23.50	23.06	0.023	1.6							
		Edge 3(Bottom)	1	0	40620	2593	0.16	0.067	23.50	23.06	0.074	1.6							
		Edge 4(Left)	1	0	40620	2593	-0.12	0.136	23.50	23.06	0.151	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 4 Edges is 10mm of all above table

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SAR MEASUREMENT																
Depth of Liquid (cm):>15			Relative Humidity (%): 54.7													
Product: Smart phone																
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)							
Left Cheek	DTS	6	2437	-0.14	0.161	17.00	16.99	0.161	1.6							
Left Tilt	DTS	6	2437	-0.03	0.119	17.00	16.99	0.119	1.6							
Right Cheek	DTS	6	2437	0.33	0.314	17.00	16.99	0.315	1.6							
Right Tilt	DTS	6	2437	-0.06	0.261	17.00	16.99	0.262	1.6							
Body back	DTS	6	2437	0.03	0.076	17.00	16.99	0.076	1.6							
Body front	DTS	6	2437	-0.11	0.078	17.00	16.99	0.078	1.6							
Edge 1 (Top)	DTS	6	2437	-0.30	0.072	17.00	16.99	0.072	1.6							
Edge 4(Left)	DTS	6	2437	0.16	0.091	17.00	16.99	0.091	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 4 Edges is 10mm of all above table.

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

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)	Yes	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 0mm for head SAR and 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR}^{30}$, where

- $f(\text{GHz})$ 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, 5 mm 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 $(\text{SAR1} + \text{SAR2})1.5/\text{R}_i$, 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	Head	7	5.011	0	0.210
	Body	7	5.011	10	0.105

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		GSM 850	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.042	0.161		0.203	No
	Left Tilt	0.028	0.119		0.147	No
	Right Touch	0.055	0.315		0.370	No
	Right Tilt	0.029	0.262		0.291	No
Head (voice)	Left Touch	0.042		0.210	0.252	No
	Left Tilt	0.028		0.210	0.238	No
	Right Touch	0.055		0.210	0.265	No
	Right Tilt	0.029		0.210	0.239	No
Body-worn (voice)	Rear	0.138	0.076		0.214	No
		0.138		0.105	0.243	No
	Front	0.034	0.078		0.112	No
		0.034		0.105	0.139	No
Body-worn (Data)	Rear	0.106		0.105	0.211	No
		0.106	0.076		0.182	No
	Front	0.025		0.105	0.130	No
		0.025	0.078		0.103	No
Body-worn (Hotspot)	Edge 4	0.020	0.091		0.111	No
	Edge 4	0.020		0.105	0.125	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		PCS 1900	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.108	0.161		0.269	No
	Left Tilt	0.050	0.119		0.169	No
	Right Touch	0.069	0.315		0.384	No
	Right Tilt	0.048	0.262		0.310	No
Head (voice)	Left Touch	0.108		0.210	0.318	No
	Left Tilt	0.050		0.210	0.260	No
	Right Touch	0.069		0.210	0.279	No
	Right Tilt	0.048		0.210	0.258	No
Body-worn (voice)	Rear	0.354	0.076		0.430	No
		0.354		0.105	0.459	No
	Front	0.140	0.078		0.218	No
		0.140		0.105	0.245	No
Body-worn (Data)	Rear	0.274		0.105	0.379	No
		0.274	0.076		0.350	No
	Front	0.123		0.105	0.228	No
		0.123	0.078		0.201	No
Body-worn (Hotspot)	Edge 4	0.165	0.091		0.256	No
	Edge 4	0.165		0.105	0.270	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.161	0.161		0.322	No
	Left Tilt	0.057	0.119		0.176	No
	Right Touch	0.105	0.315		0.420	No
	Right Tilt	0.060	0.262		0.322	No
Head	Left Touch	0.161		0.210	0.371	No
	Left Tilt	0.057		0.210	0.267	No
	Right Touch	0.105		0.210	0.315	No
	Right Tilt	0.060		0.210	0.270	No
Body-worn	Rear	0.420	0.076		0.496	No
	Front	0.204	0.078		0.282	No
	Edge 4	0.227	0.091		0.318	No
	Rear	0.420		0.105	0.525	No
	Front	0.204		0.105	0.309	No
	Edge 4	0.227		0.105	0.332	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.071	0.161		0.232	No
	Left Tilt	0.039	0.119		0.158	No
	Right Touch	0.046	0.315		0.361	No
	Right Tilt	0.044	0.262		0.306	No
Head	Left Touch	0.071		0.210	0.281	No
	Left Tilt	0.039		0.210	0.249	No
	Right Touch	0.046		0.210	0.256	No
	Right Tilt	0.044		0.210	0.254	No
Body-worn	Rear	0.139	0.076		0.215	No
	Front	0.088	0.078		0.166	No
	Edge 4	0.094	0.091		0.185	No
	Rear	0.139		0.105	0.244	No
	Front	0.088		0.105	0.193	No
	Edge 4	0.094		0.105	0.199	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.047	0.161		0.208	No
	Left Tilt	0.032	0.119		0.151	No
	Right Touch	0.062	0.315		0.377	No
	Right Tilt	0.034	0.262		0.296	No
Head	Left Touch	0.047		0.210	0.257	No
	Left Tilt	0.032		0.210	0.242	No
	Right Touch	0.062		0.210	0.272	No
	Right Tilt	0.034		0.210	0.244	No
Body-worn	Rear	0.133	0.076		0.209	No
	Front	0.042	0.078		0.120	No
	Edge 4	0.020	0.091		0.111	No
	Rear	0.133		0.105	0.238	No
	Front	0.042		0.105	0.147	No
	Edge 4	0.020		0.105	0.125	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.252	0.161		0.413	No
	Left Tilt	0.110	0.119		0.229	No
	Right Touch	0.183	0.315		0.498	No
	Right Tilt	0.101	0.262		0.363	No
Head	Left Touch	0.252		0.210	0.462	No
	Left Tilt	0.110		0.210	0.320	No
	Right Touch	0.183		0.210	0.393	No
	Right Tilt	0.101		0.210	0.311	No
Body-worn	Rear	0.776	0.076		0.852	No
	Front	0.314	0.078		0.392	No
	Edge 4	0.363	0.091		0.454	No
	Rear	0.776		0.105	0.881	No
	Front	0.314		0.105	0.419	No
	Edge 4	0.363		0.105	0.468	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.093	0.161		0.254	No
	Left Tilt	0.055	0.119		0.174	No
	Right Touch	0.063	0.315		0.378	No
	Right Tilt	0.060	0.262		0.322	No
Head	Left Touch	0.093		0.210	0.303	No
	Left Tilt	0.055		0.210	0.265	No
	Right Touch	0.063		0.210	0.273	No
	Right Tilt	0.060		0.210	0.270	No
Body-worn	Rear	0.204	0.076		0.280	No
	Front	0.113	0.078		0.191	No
	Edge 4	0.127	0.091		0.218	No
	Rear	0.204		0.105	0.309	No
	Front	0.113		0.105	0.218	No
	Edge 4	0.127		0.105	0.232	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.069	0.161		0.230	No
	Left Tilt	0.043	0.119		0.162	No
	Right Touch	0.082	0.315		0.397	No
	Right Tilt	0.037	0.262		0.299	No
Head	Left Touch	0.069		0.210	0.279	No
	Left Tilt	0.043		0.210	0.253	No
	Right Touch	0.082		0.210	0.292	No
	Right Tilt	0.037		0.210	0.247	No
Body-worn	Rear	0.185	0.076		0.261	No
	Front	0.118	0.078		0.196	No
	Edge 4	0.037	0.091		0.128	No
	Rear	0.185		0.105	0.290	No
	Front	0.118		0.105	0.223	No
	Edge 4	0.037		0.105	0.142	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.198	0.161		0.359	No
	Left Tilt	0.098	0.119		0.217	No
	Right Touch	0.105	0.315		0.420	No
	Right Tilt	0.135	0.262		0.397	No
Head	Left Touch	0.198		0.210	0.408	No
	Left Tilt	0.098		0.210	0.308	No
	Right Touch	0.105		0.210	0.315	No
	Right Tilt	0.135		0.210	0.345	No
Body-worn	Rear	0.659	0.076		0.735	No
	Front	0.323	0.078		0.401	No
	Edge 4	0.390	0.091		0.481	No
	Rear	0.659		0.105	0.764	No
	Front	0.323		0.105	0.428	No
	Edge 4	0.390		0.105	0.495	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			$\Sigma 1\text{-g SAR (W/kg)}$	SPLSR (Yes/No)
		LTE Band 41	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.086	0.161		0.247	No
	Left Tilt	0.049	0.119		0.168	No
	Right Touch	0.053	0.315		0.368	No
	Right Tilt	0.051	0.262		0.313	No
Head	Left Touch	0.086		0.210	0.296	No
	Left Tilt	0.049		0.210	0.259	No
	Right Touch	0.053		0.210	0.263	No
	Right Tilt	0.051		0.210	0.261	No
Body-worn	Rear	0.288	0.076		0.364	No
	Front	0.152	0.078		0.230	No
	Edge 4	0.151	0.091		0.242	No
	Rear	0.288		0.105	0.393	No
	Front	0.152		0.105	0.257	No
	Edge 4	0.151		0.105	0.256	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: Mar. 30, 2024

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=2.02

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 42.57$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm

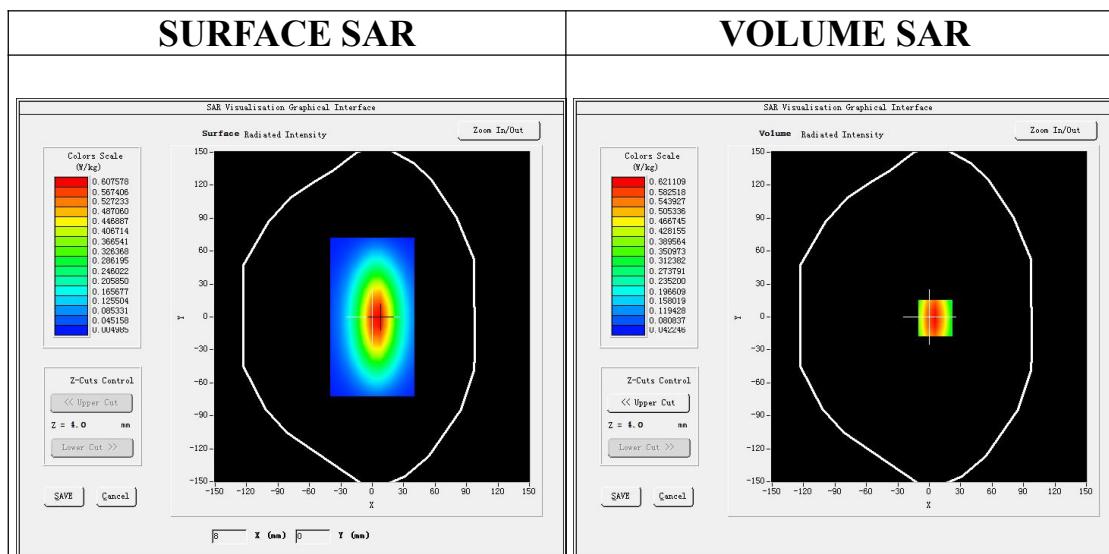
Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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=6.00, Y=-1.00

SAR Peak: 0.88 W/kg

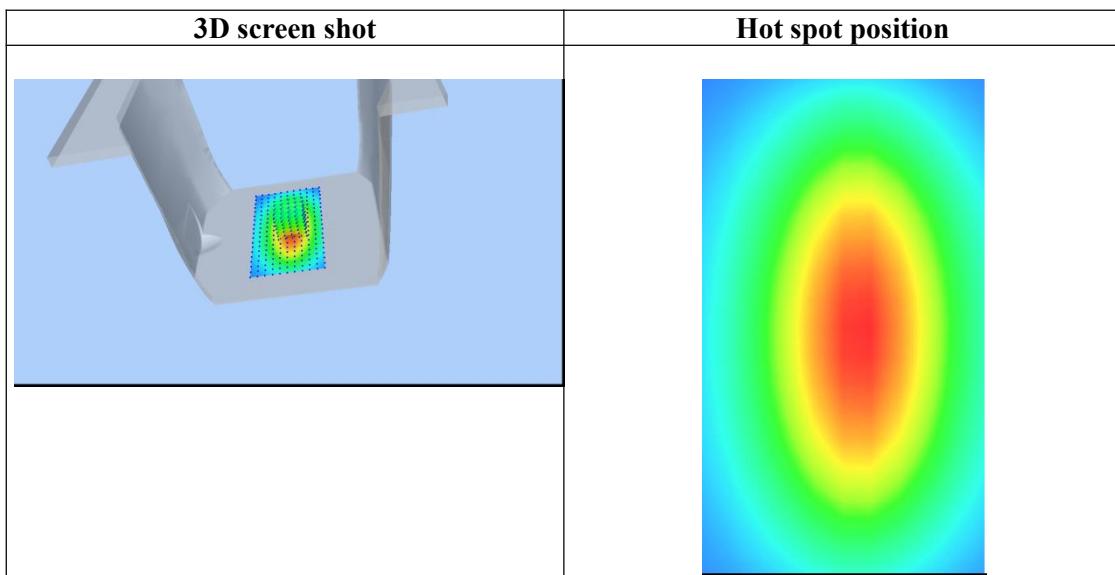
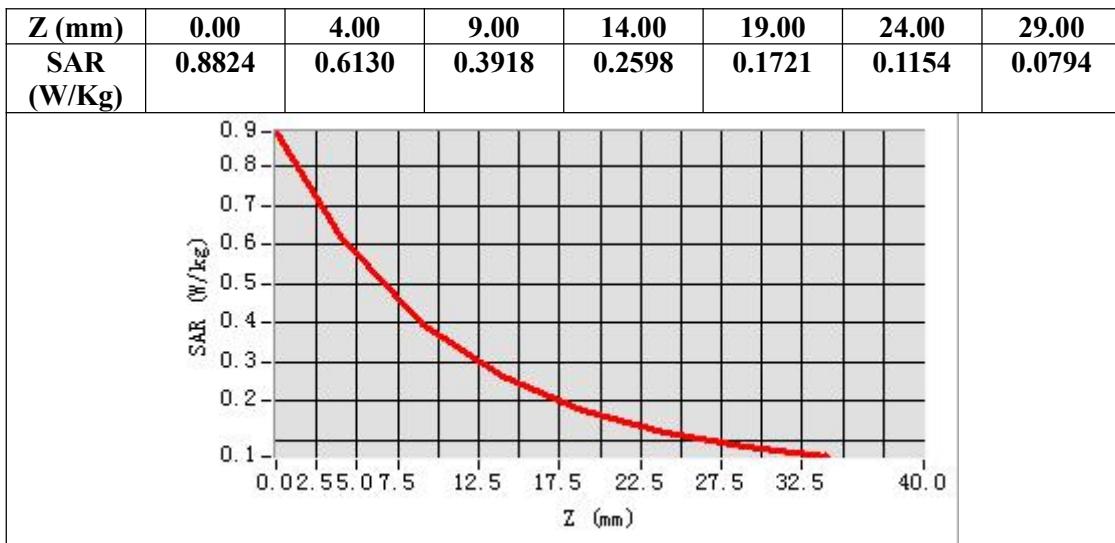
SAR 10g (W/Kg)	0.371547
SAR 1g (W/Kg)	0.591033

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Test Laboratory: AGC Lab
System Check Head 1750MHz

DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.17

 Frequency: 1750 MHz; Medium parameters used: $f = 1750\text{MHz}$; $\sigma=1.41\text{ mho/m}$; $\epsilon_r=39.61$; $\rho=1000\text{ kg/m}^3$;

Phantom section: Flat Section; Input Power=18dBm

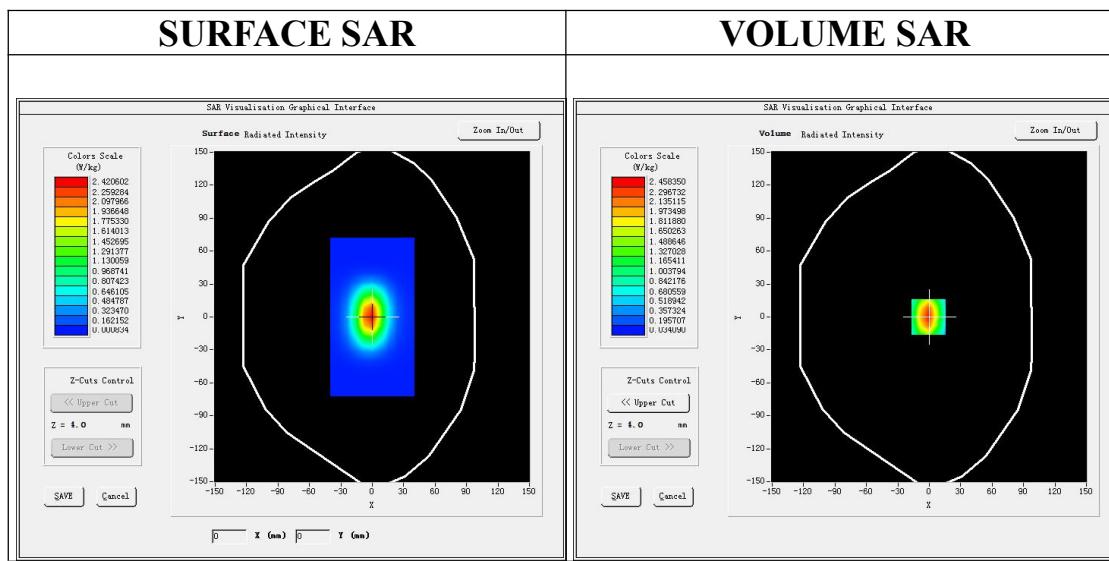
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

Date: Mar. 28, 2024
SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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=-1.00, Y=0.00
SAR Peak: 4.00 W/kg

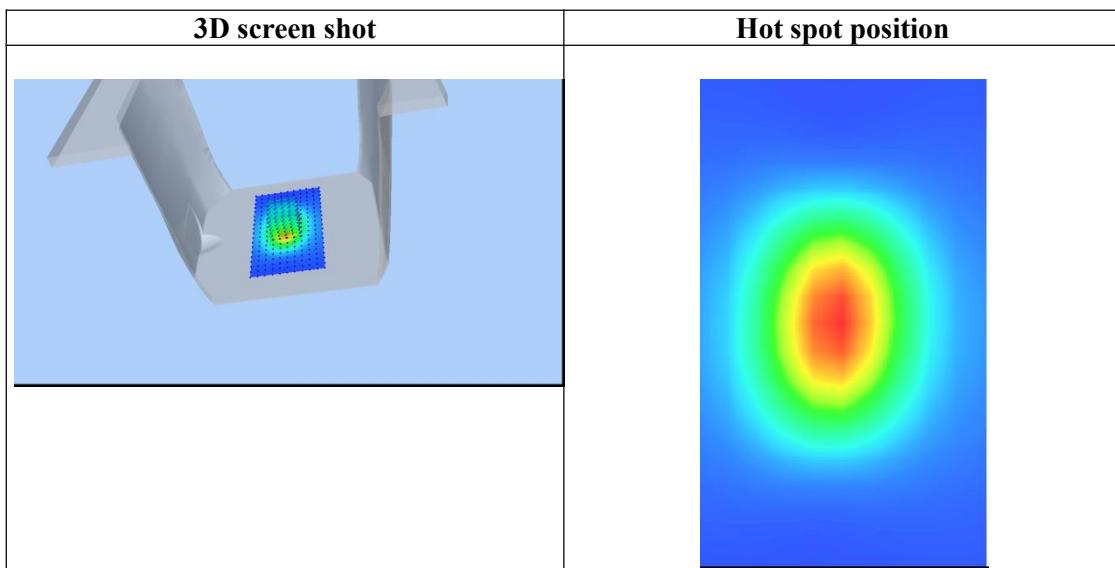
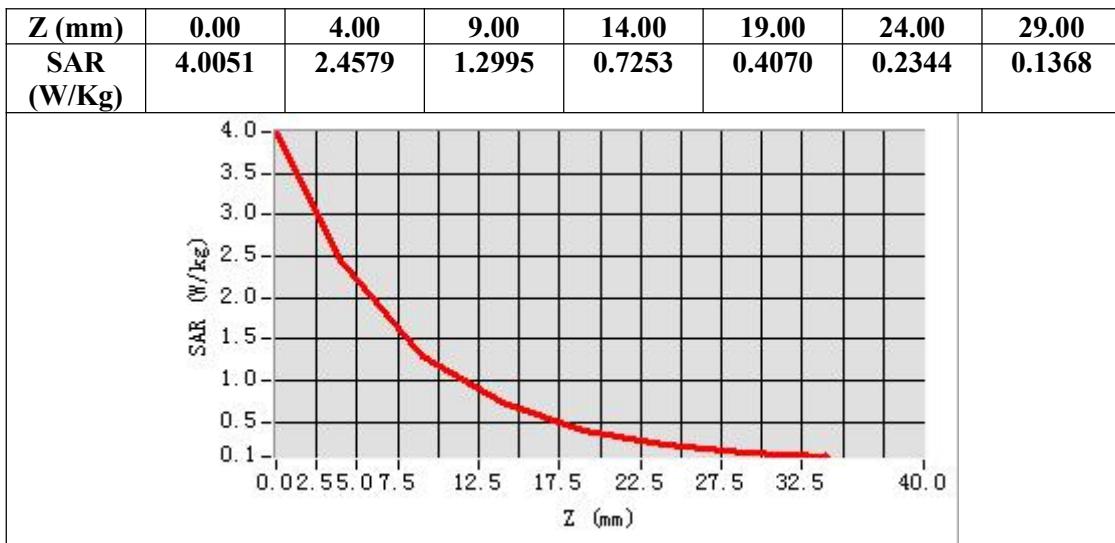
SAR 10g (W/Kg)	1.196570
SAR 1g (W/Kg)	2.314906

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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Mar. 29, 2024

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.15
 Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.60$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C):22.3, Liquid temperature (°C): 22.1

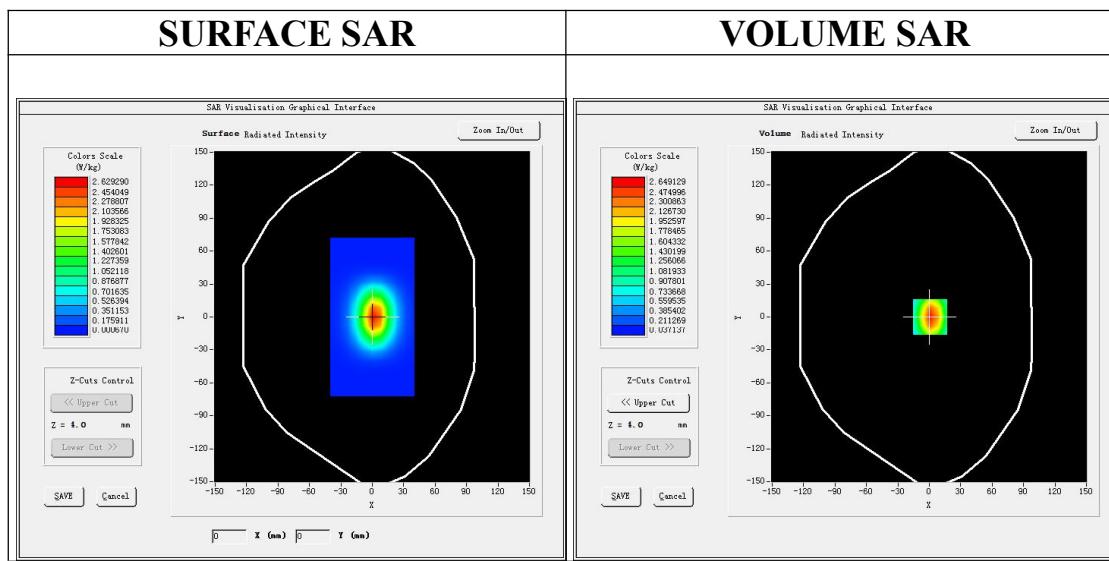
SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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=1.00, Y=0.00

SAR Peak: 4.32 W/kg

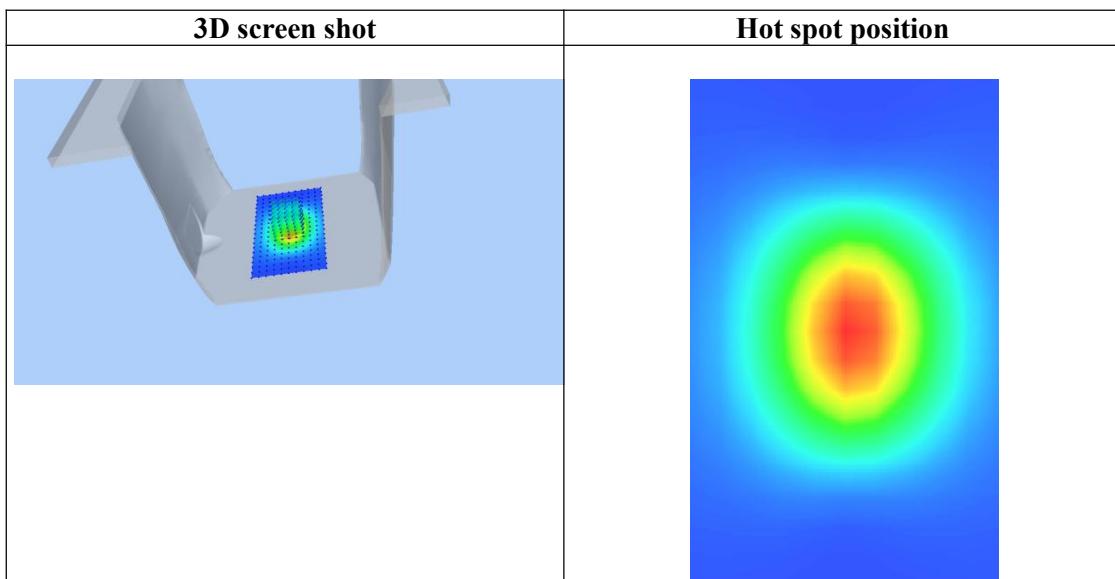
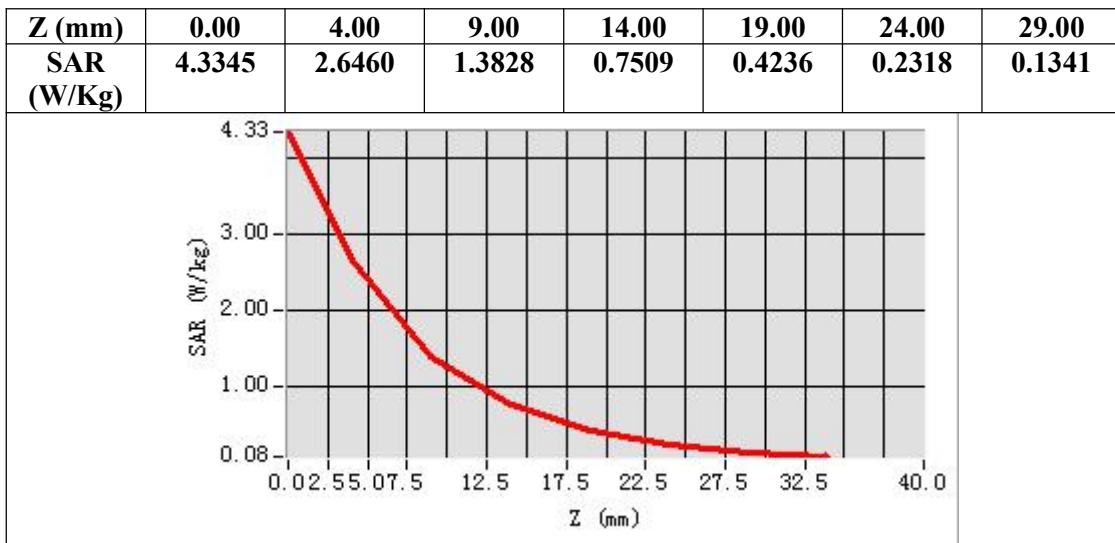
SAR 10g (W/Kg)	1.264742
SAR 1g (W/Kg)	2.513908

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Test Laboratory: AGC Lab
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=2.29

 Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³ ;

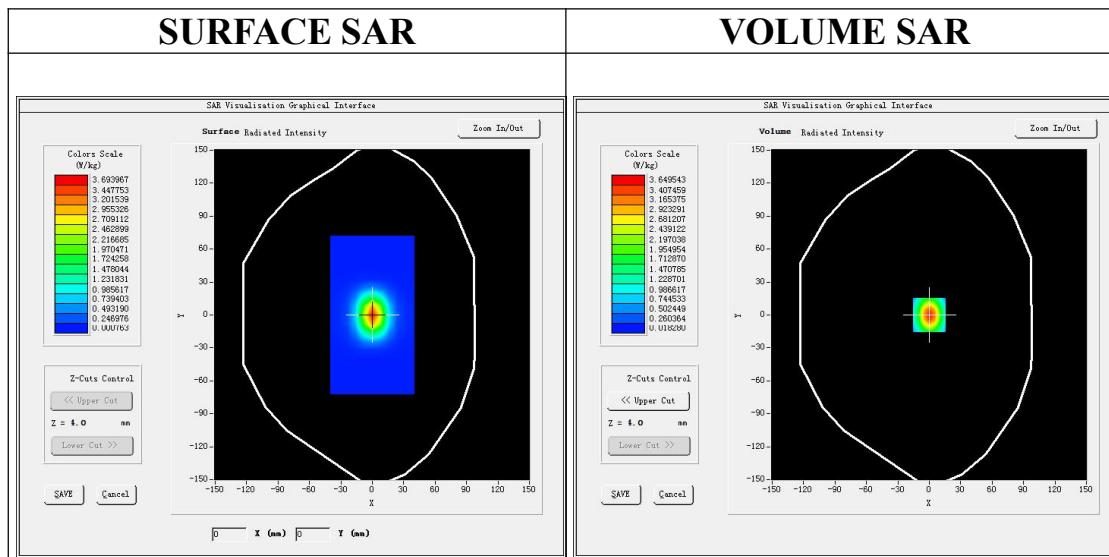
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.7

Date: Mar. 31, 2024
SATIMO Configuration

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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=0.00, Y=0.00
SAR Peak: 6.28 W/kg

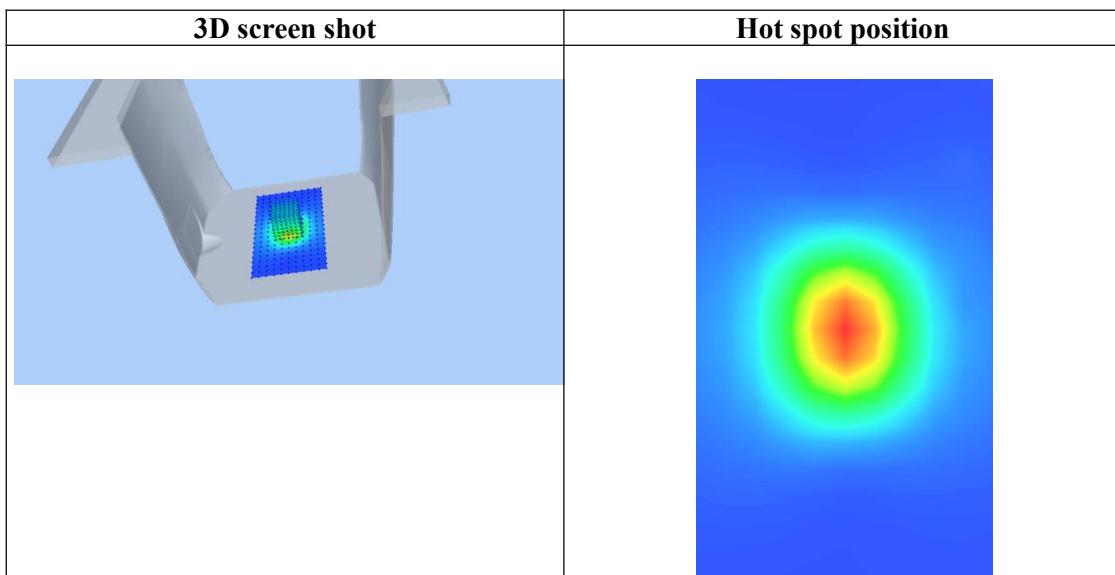
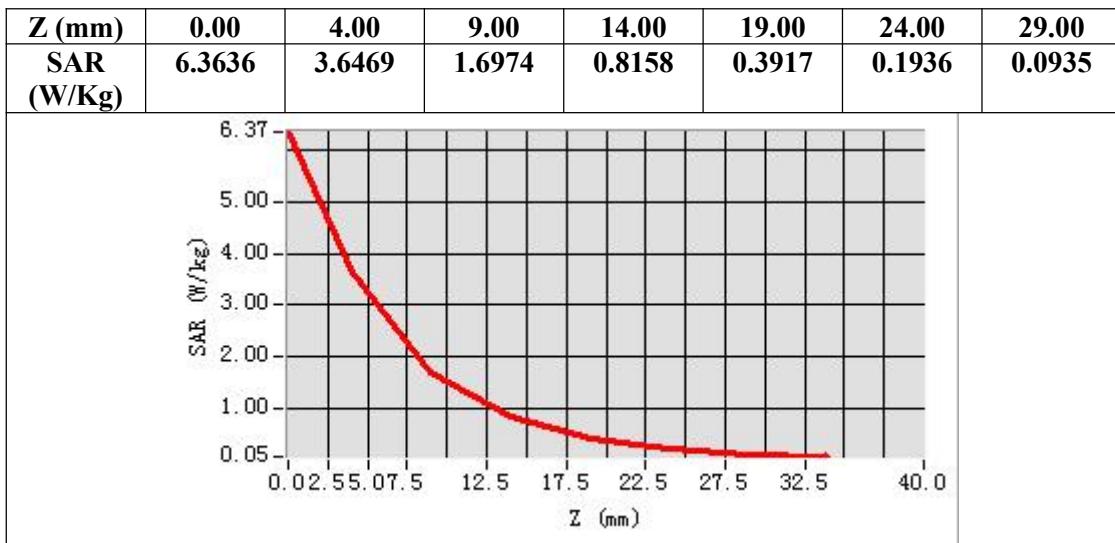
SAR 10g (W/Kg)	1.497294
SAR 1g (W/Kg)	3.334128

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Test Laboratory: AGC Lab
System Check Head 2600MHz

DUT: Dipole 2600 MHz; Type: SID 2600

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.13

 Frequency:2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 38.15$; $\rho = 1000$ kg/m³ ;

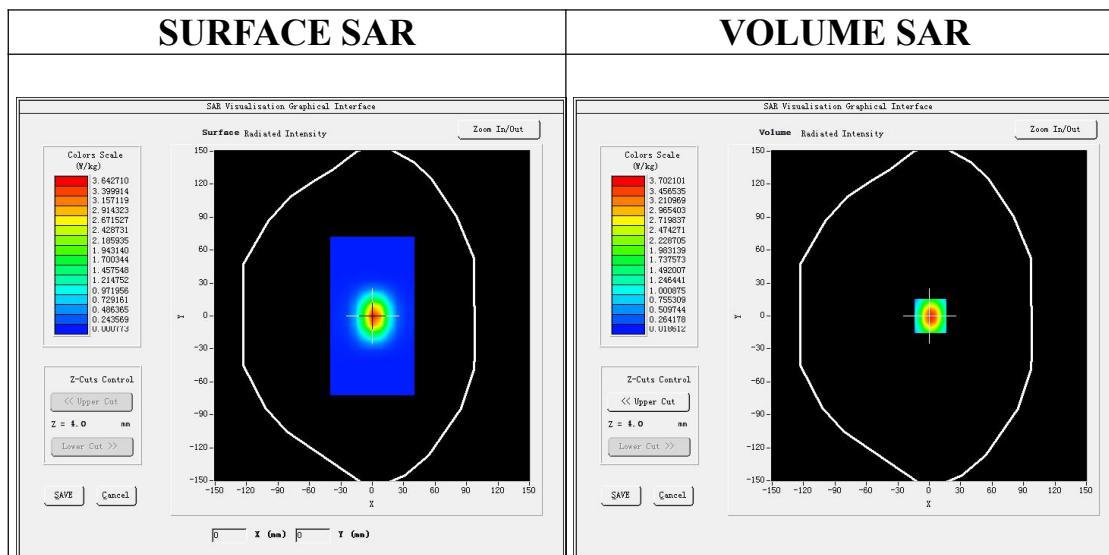
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

Date: Apr. 02, 2024
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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=1.00, Y=0.00
SAR Peak: 6.41 W/kg

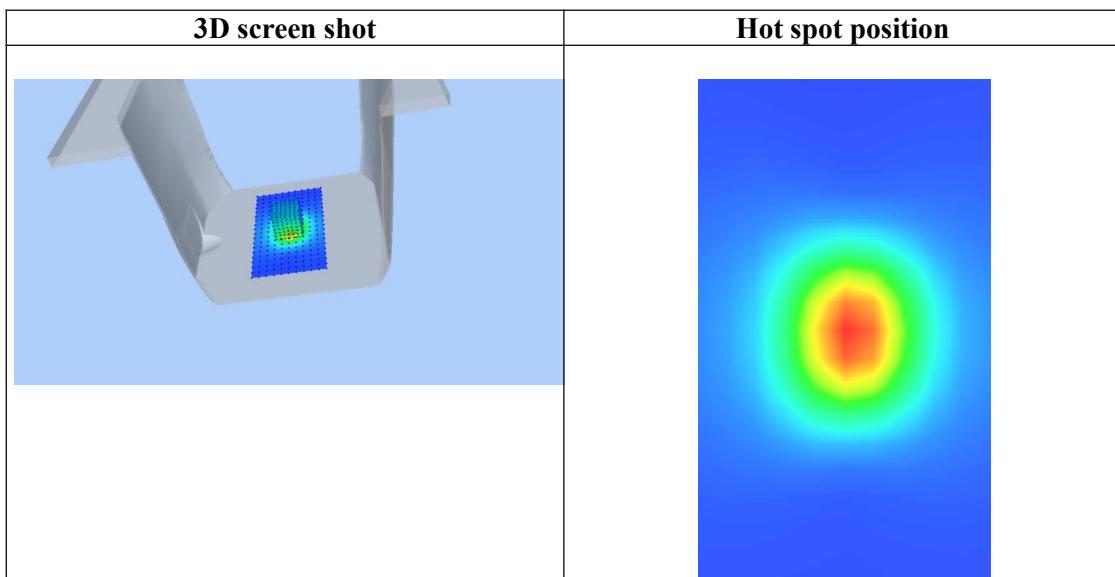
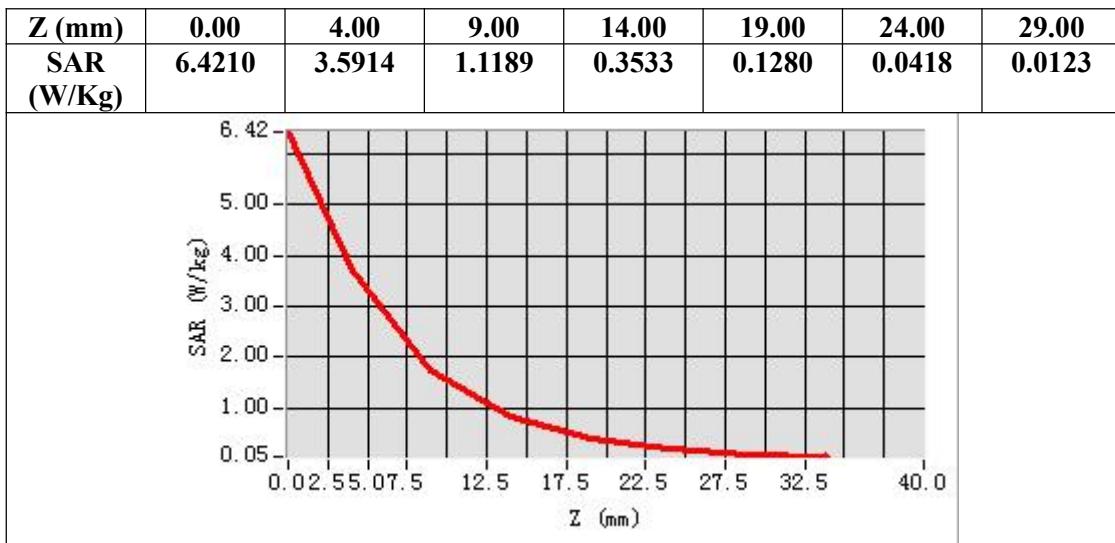
SAR 10g (W/Kg)	1.470825
SAR 1g (W/Kg)	3.361582

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab
 GSM 850 Mid- Touch-Right <SIM 1>
 DUT: Smart phone; Type: A140

Date: Mar. 30, 2024

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=2.02; Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.63$; $\rho = 1000$ kg/m³; Phantom section: Right Section
 Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

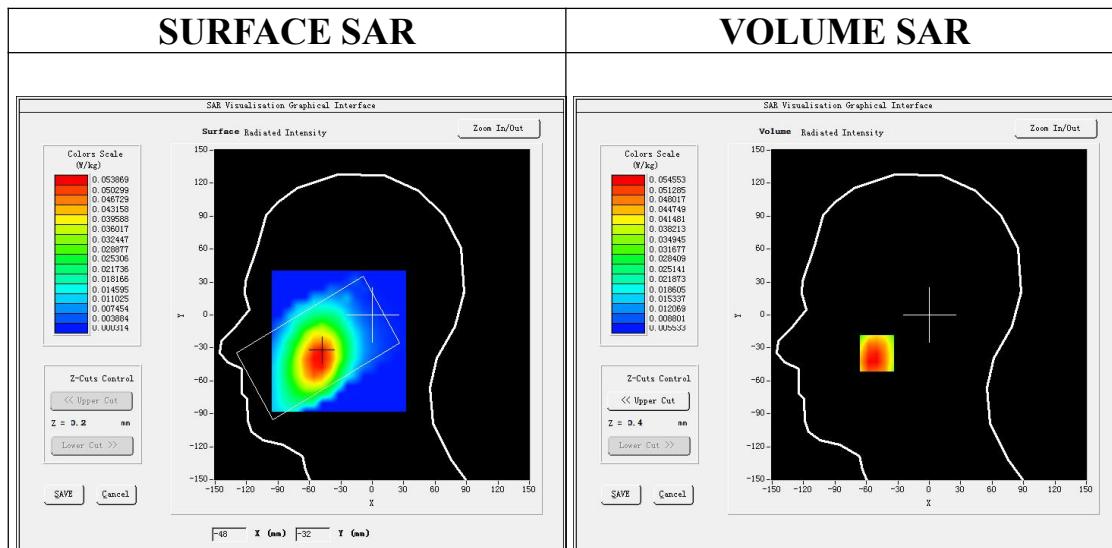
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 850 Mid-Touch-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,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-50.00, Y=-35.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.038842
SAR 1g (W/Kg)	0.053887

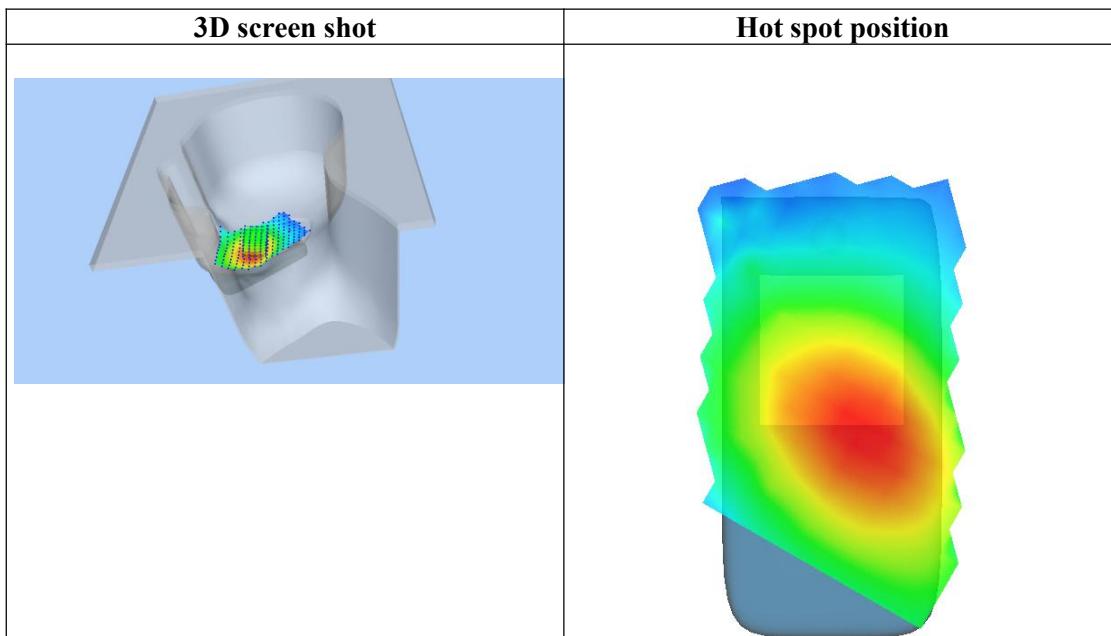
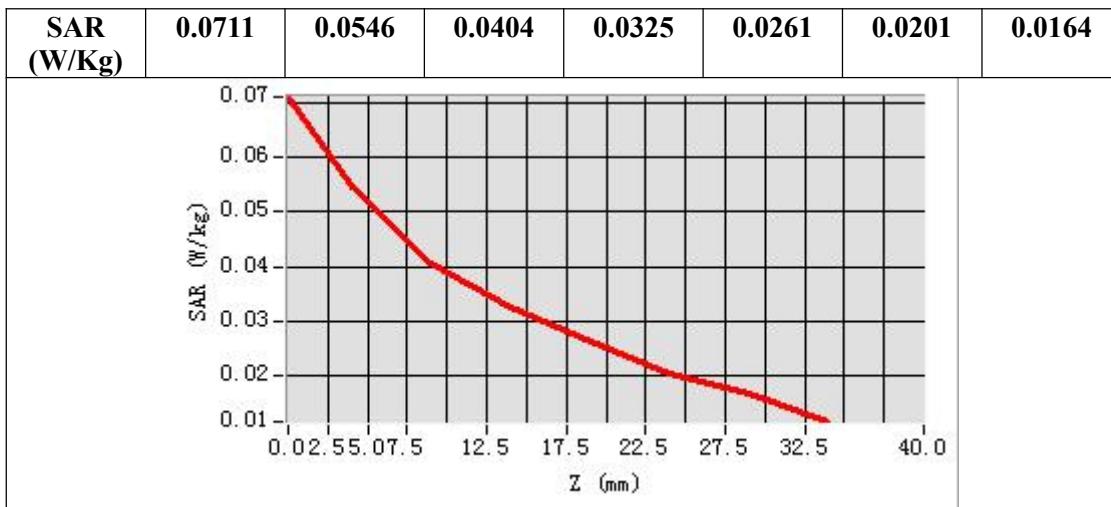
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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Test Laboratory: AGC Lab
GSM 850 Mid- Body- Back (MS)<SIM 1>
DUT: Smart phone; Type: A140

Date: Mar. 30, 2024

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=2.02; Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.63$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

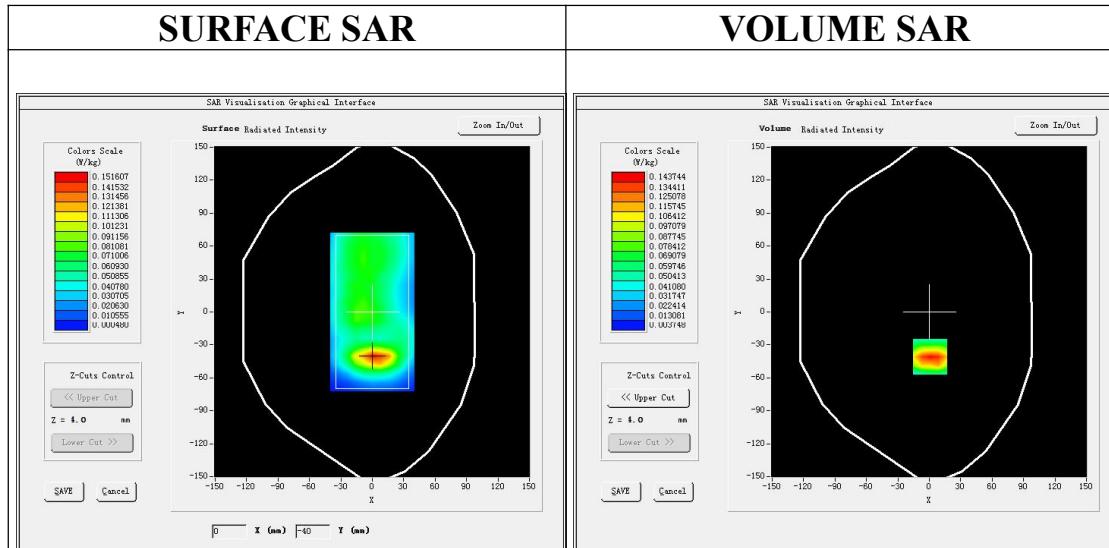
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 850 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=1.00, Y=-41.00

SAR Peak: 0.22 W/kg

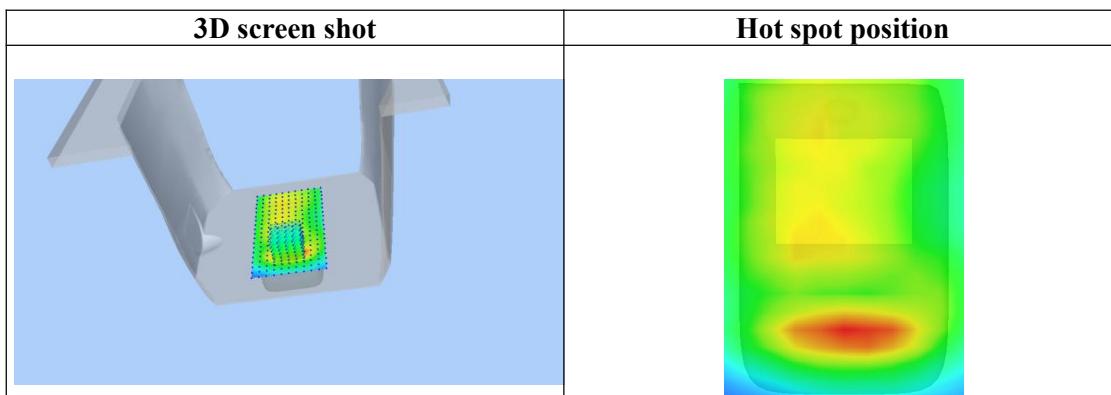
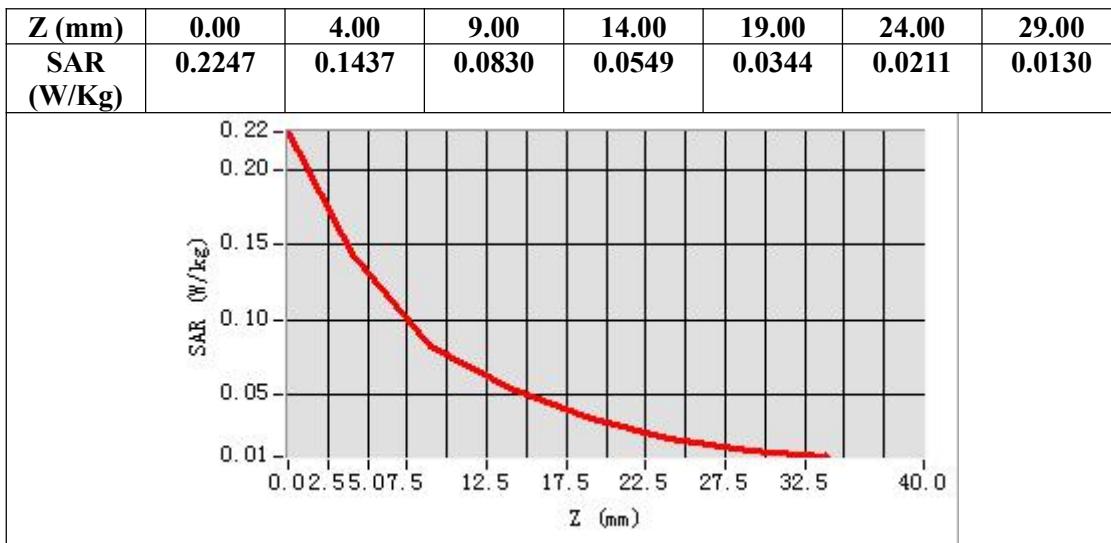
SAR 10g (W/Kg)	0.074651
SAR 1g (W/Kg)	0.134972

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Test Laboratory: AGC Lab
GPRS 850 Mid- Body- Back (2up)
DUT: Smart phone; Type: A140

Date: Mar. 30, 2024

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=2.02;
 Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.63$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

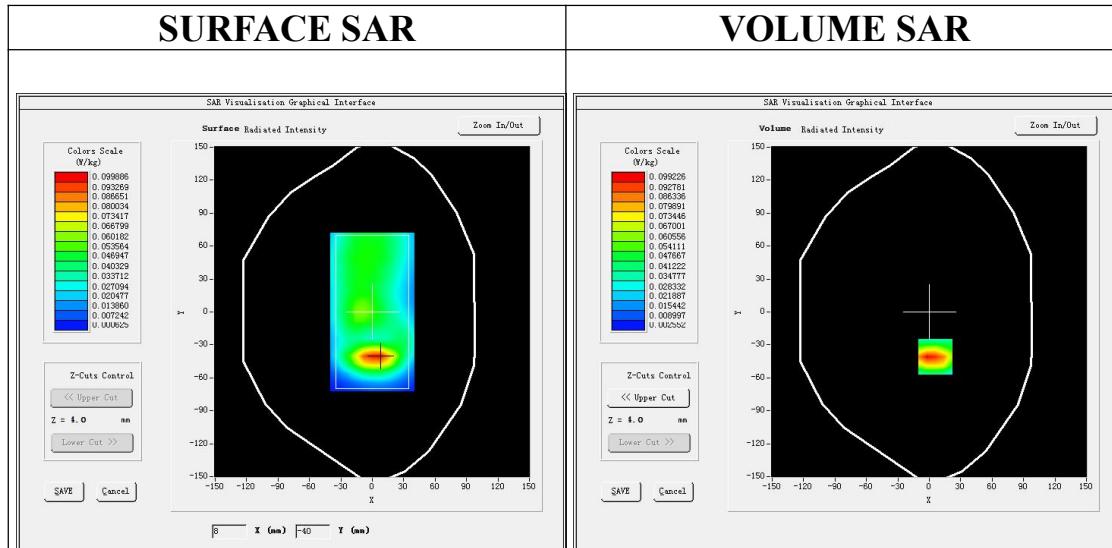
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS 850 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=6.00, Y=-41.00
SAR Peak: 0.15 W/kg

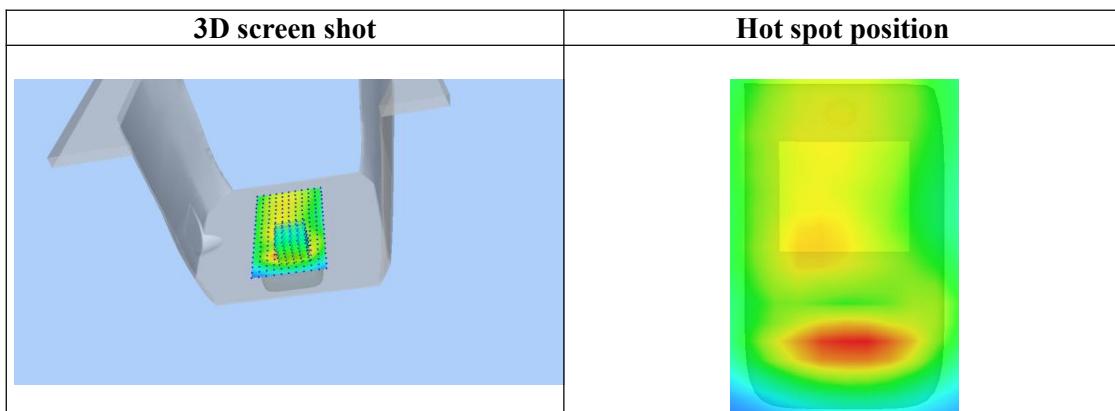
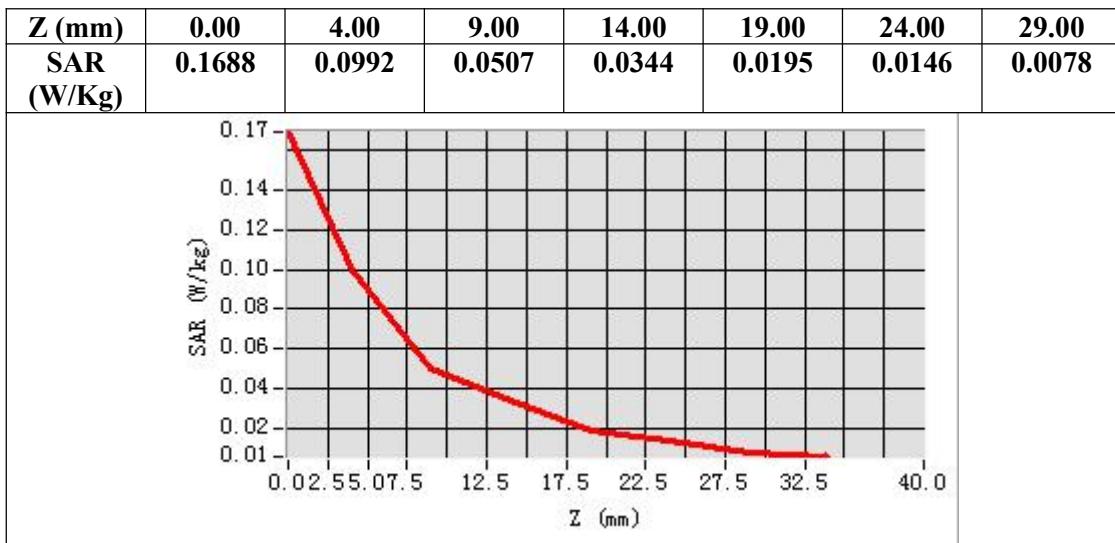
SAR 10g (W/Kg)	0.050418
SAR 1g (W/Kg)	0.092663

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Test Laboratory: AGC Lab
PCS 1900 Mid-Touch- Left <SIM 1>
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.15;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Left Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

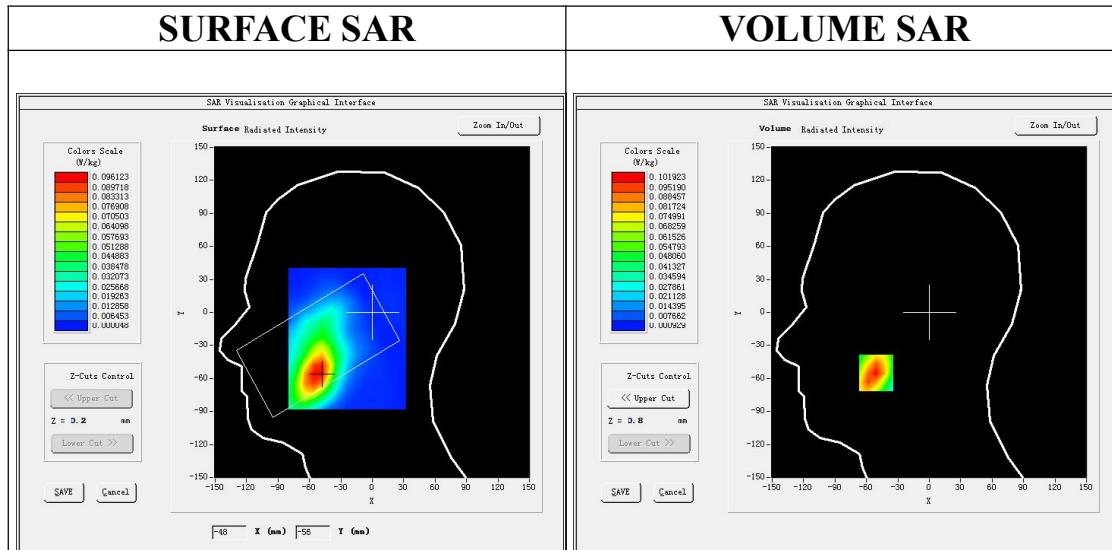
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/PCS1900 Mid-Touch-Left/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,Complete
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-51.00, Y=-55.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.053126
SAR 1g (W/Kg)	0.096711

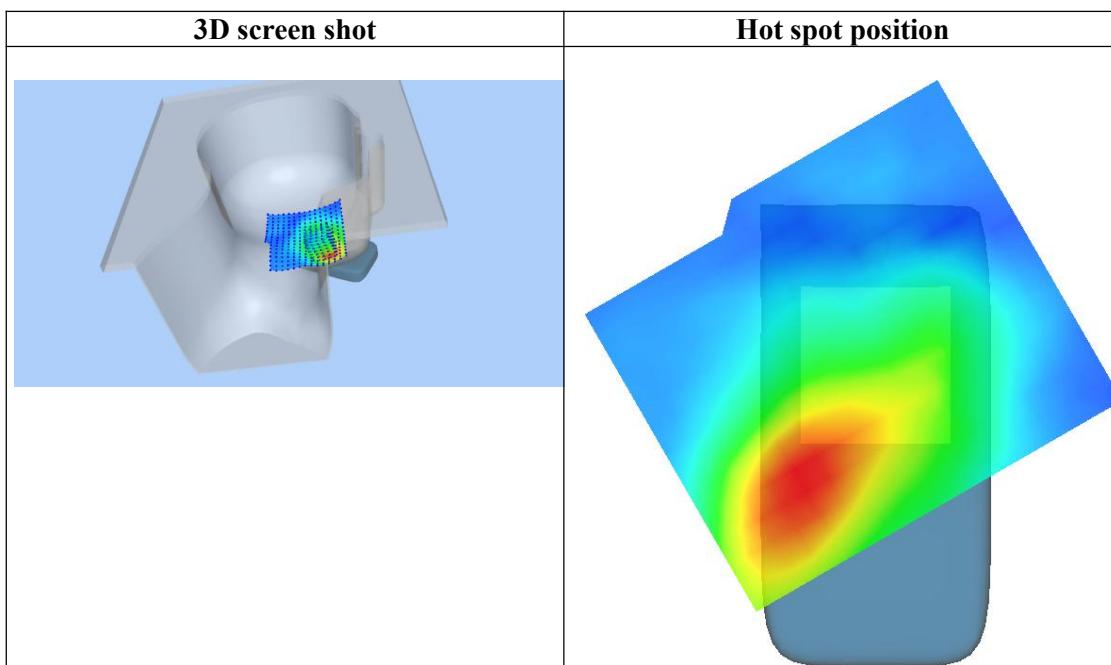
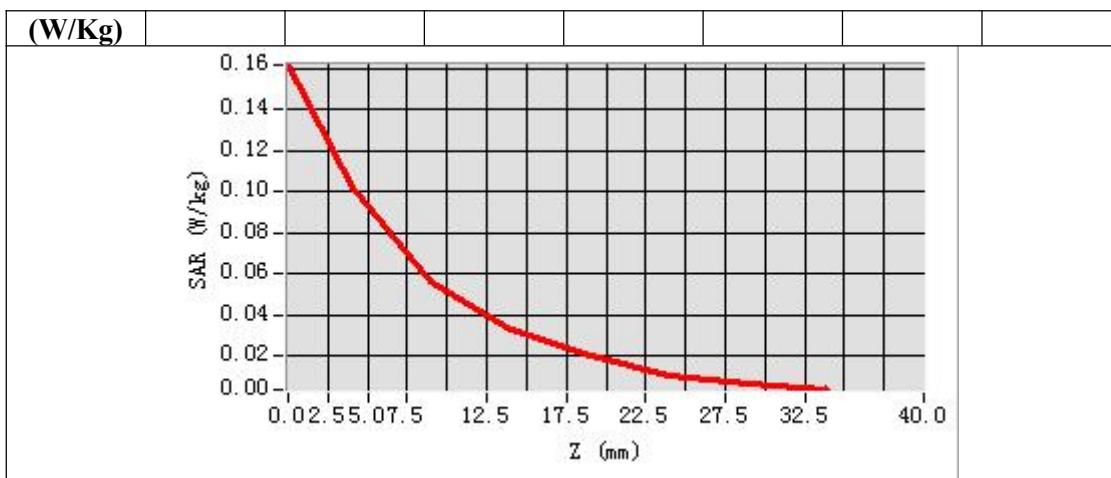
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.1616	0.1019	0.0568	0.0332	0.0203	0.0110	0.0064

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Test Laboratory: AGC Lab
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.15;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

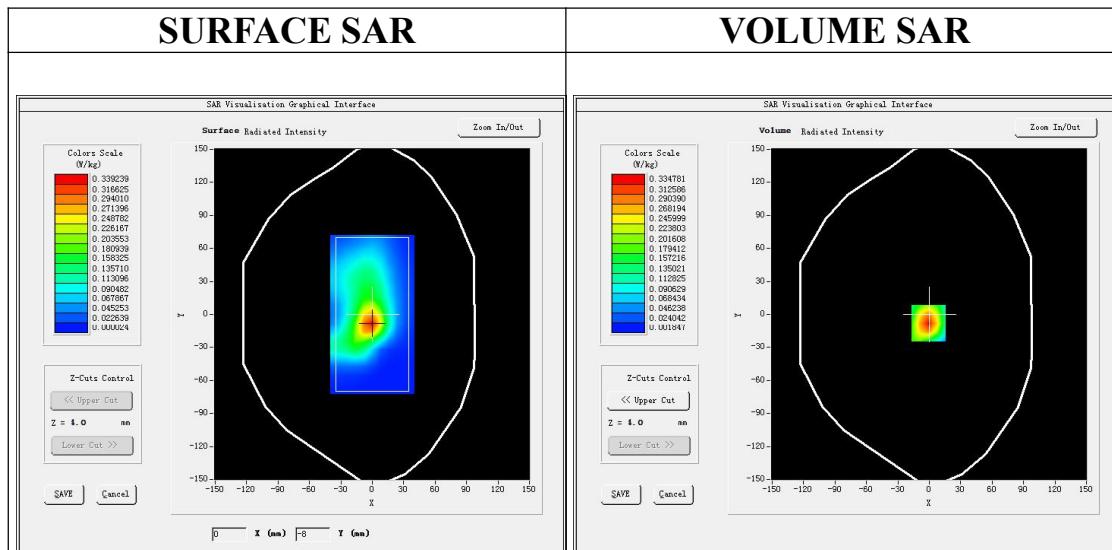
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-1.00, Y=-8.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.157245
SAR 1g (W/Kg)	0.317436

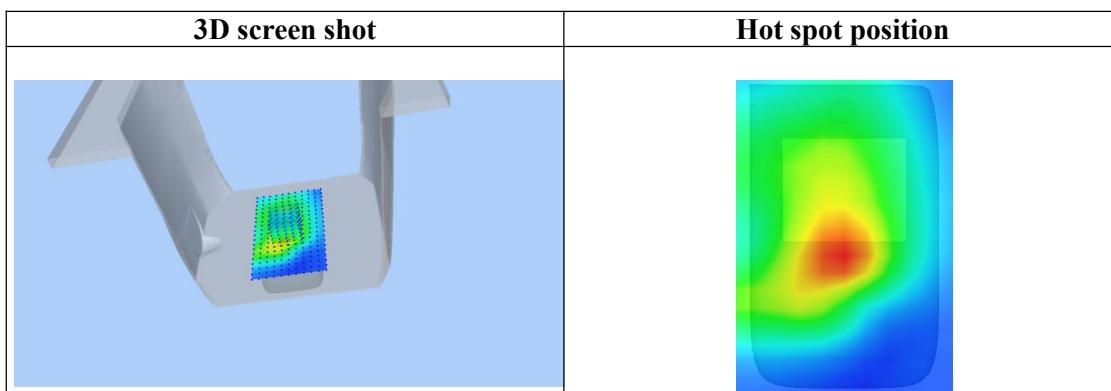
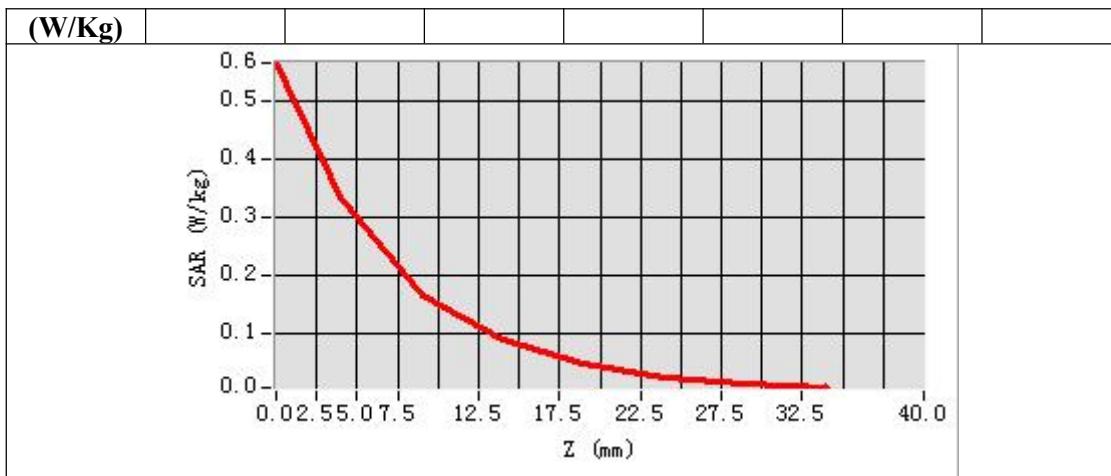
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.5667	0.3348	0.1660	0.0883	0.0475	0.0243	0.0128

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Test Laboratory: AGC Lab
GPRS 1900 Mid-Body-Back (3up)
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=2.15;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

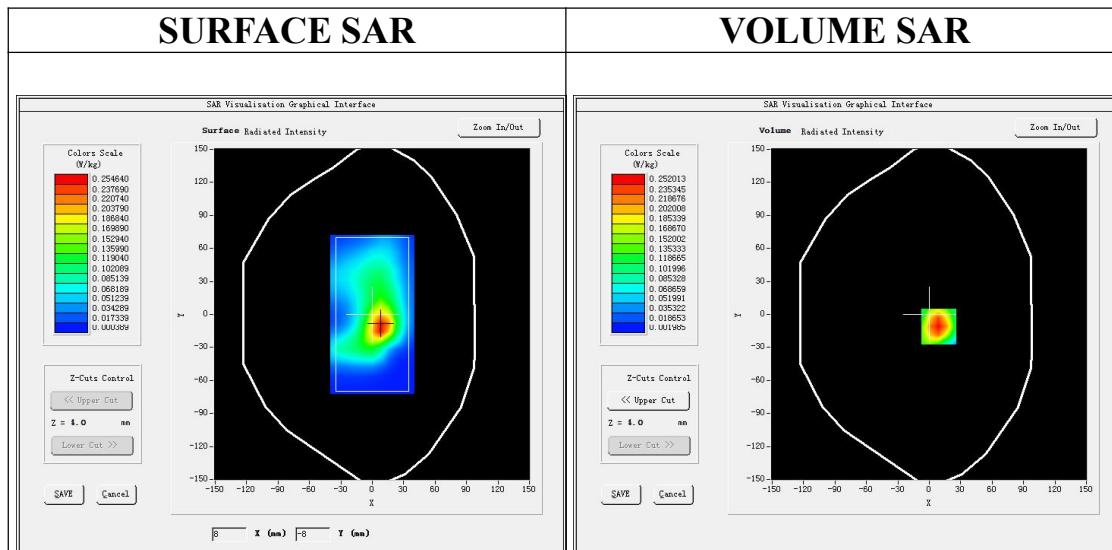
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)



Maximum location: X=9.00, Y=-11.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.126623
SAR 1g (W/Kg)	0.245139

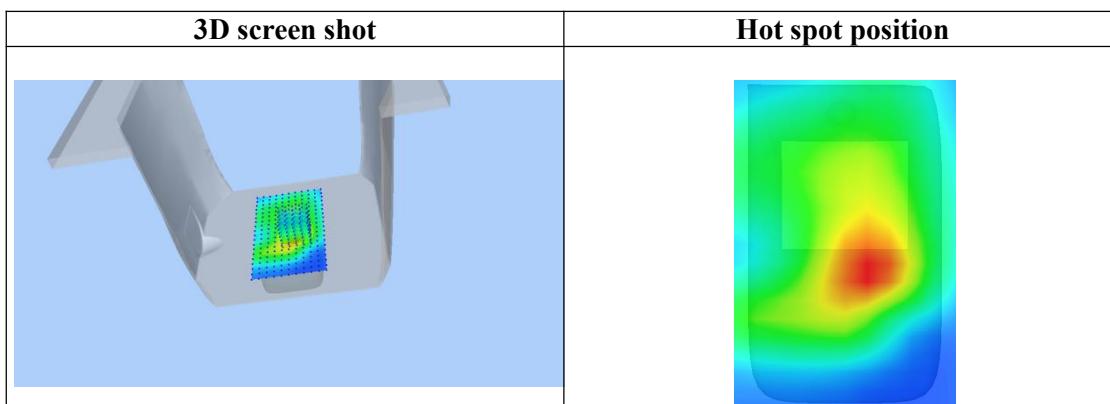
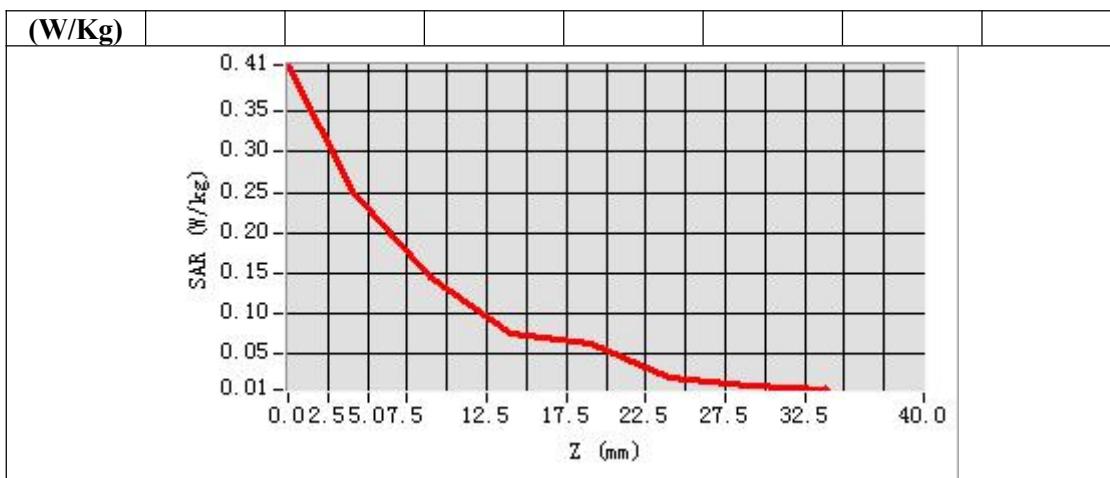
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.4081	0.2520	0.1456	0.0755	0.0618	0.0211	0.0113

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Left (RMC)
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.15;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Left Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

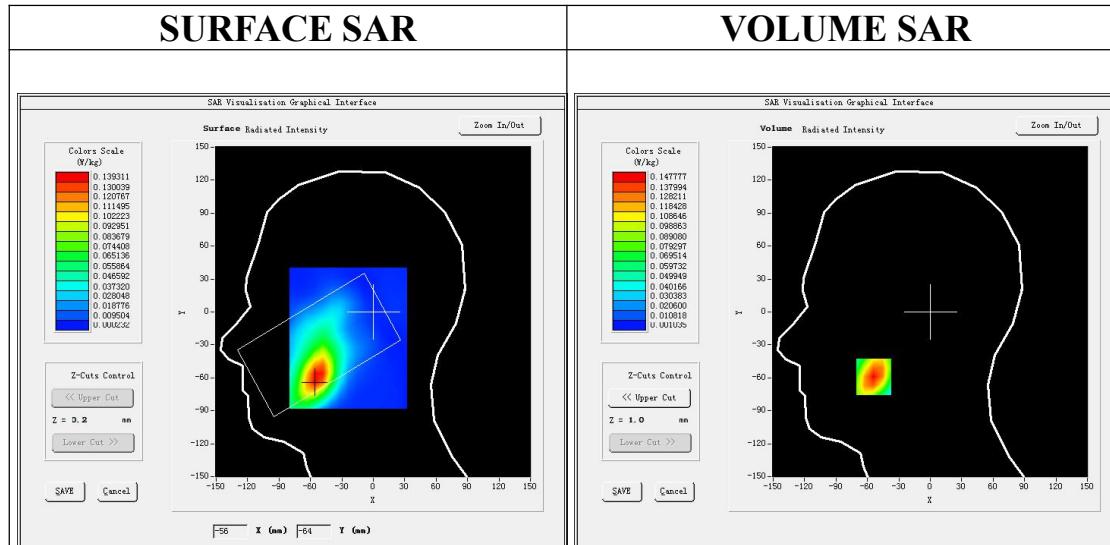
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band II Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band II Mid-Touch-Left/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,Complete
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-54.00, Y=-59.00

SAR Peak: 0.23 W/kg

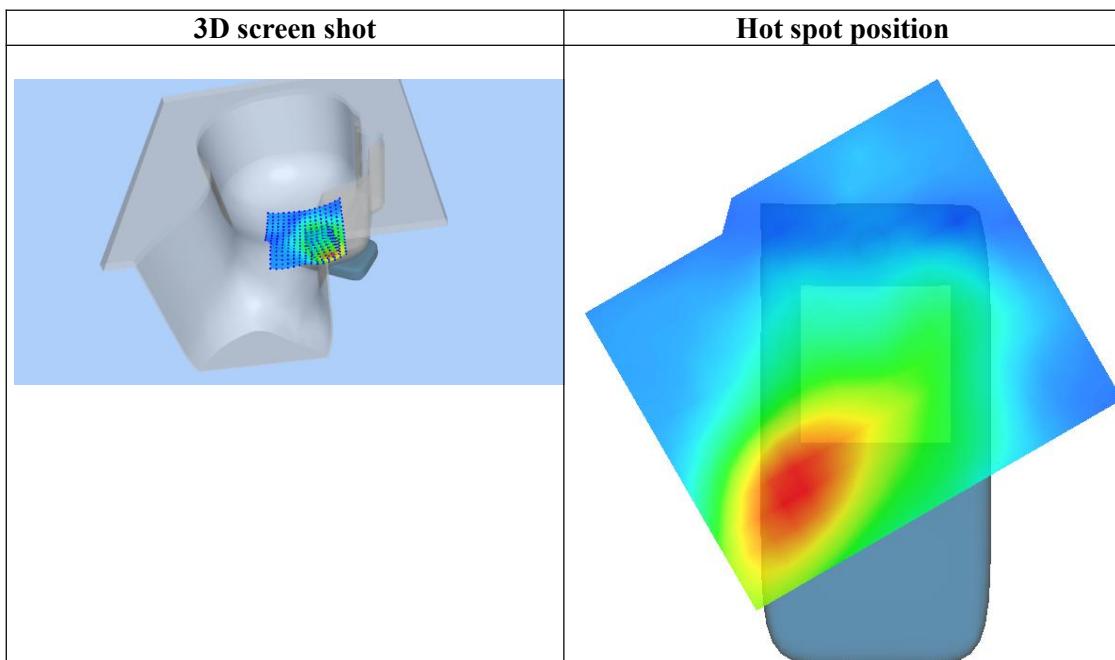
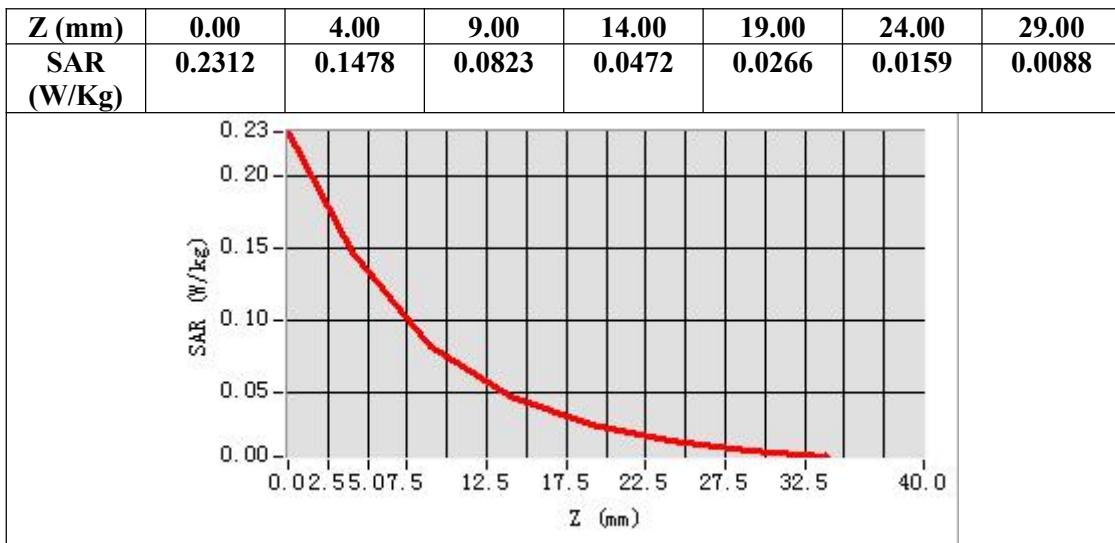
SAR 10g (W/Kg)	0.076100
SAR 1g (W/Kg)	0.140803

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.15;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

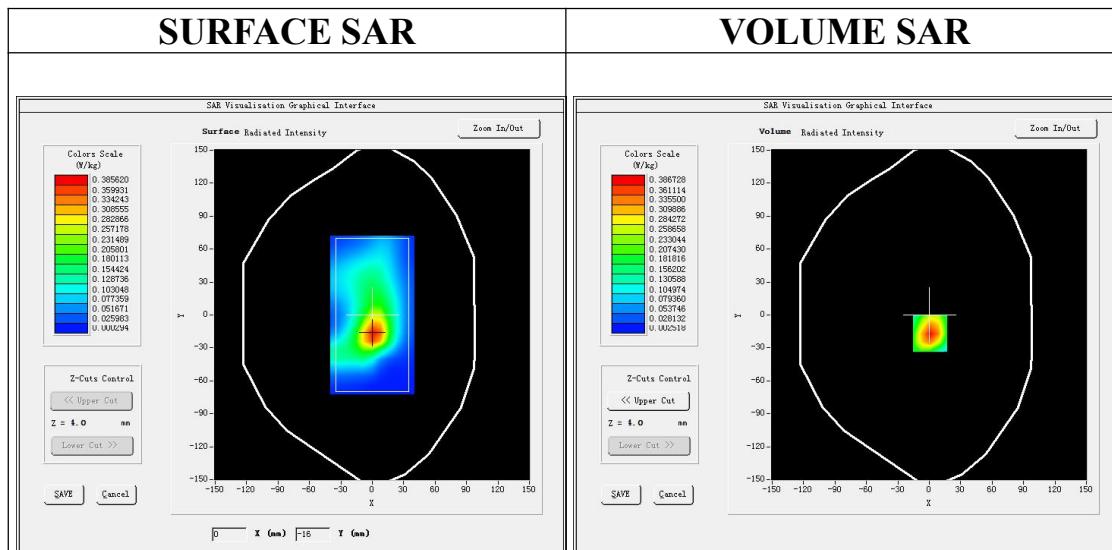
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA band II Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=1.00, Y=-17.00
SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.186853
SAR 1g (W/Kg)	0.367585

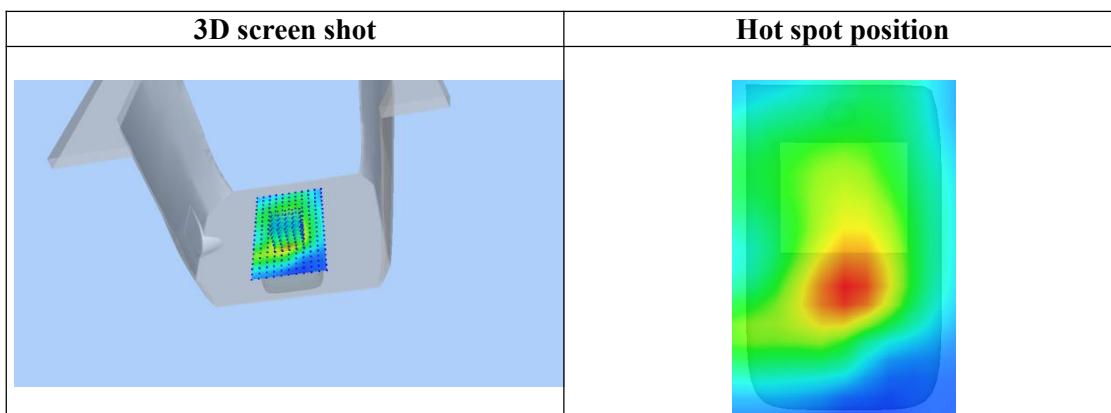
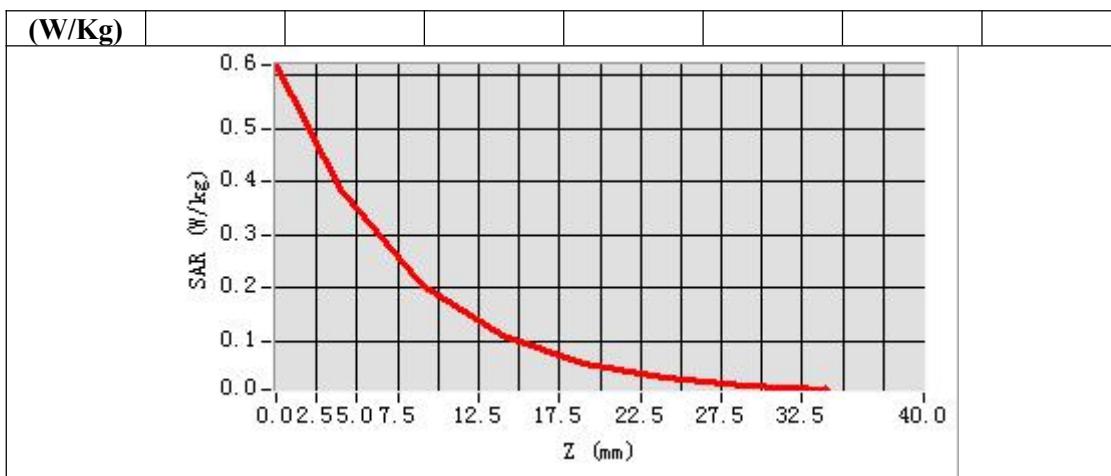
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.6208	0.3867	0.2047	0.1081	0.0561	0.0288	0.0148

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Touch-Left (RMC)
DUT: Smart phone; Type: A140

Date: Mar. 28, 2024

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17;
 Frequency:1732.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 40.39$; $\rho = 1000$ kg/m³ ;
 Phantom section: Left Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

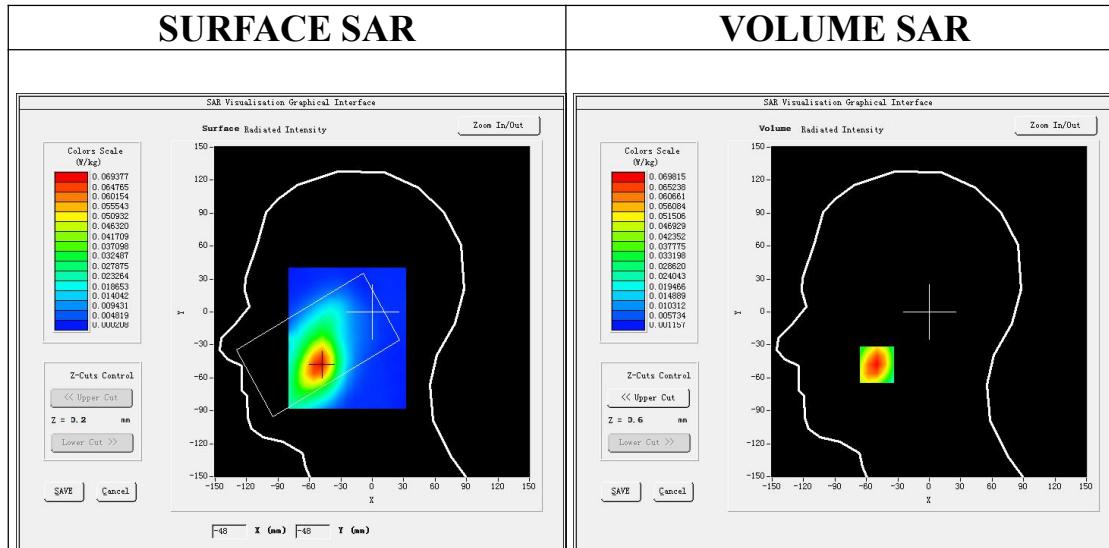
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band IV Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band IV Mid-Touch-Left/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,Complete
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-48.00

SAR Peak: 0.10 W/kg

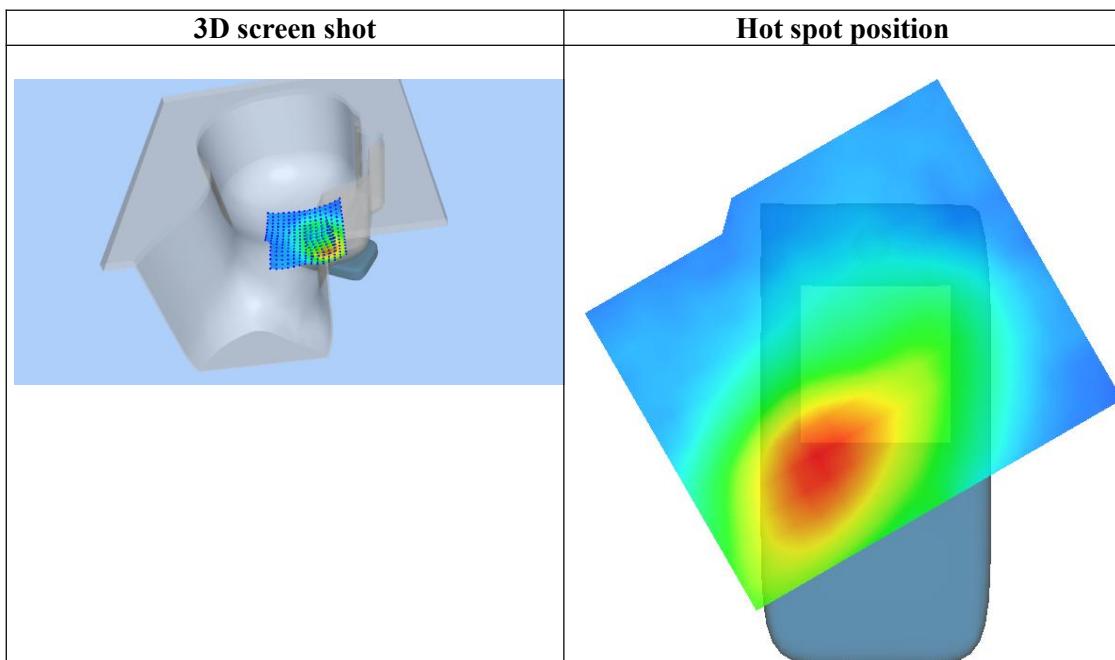
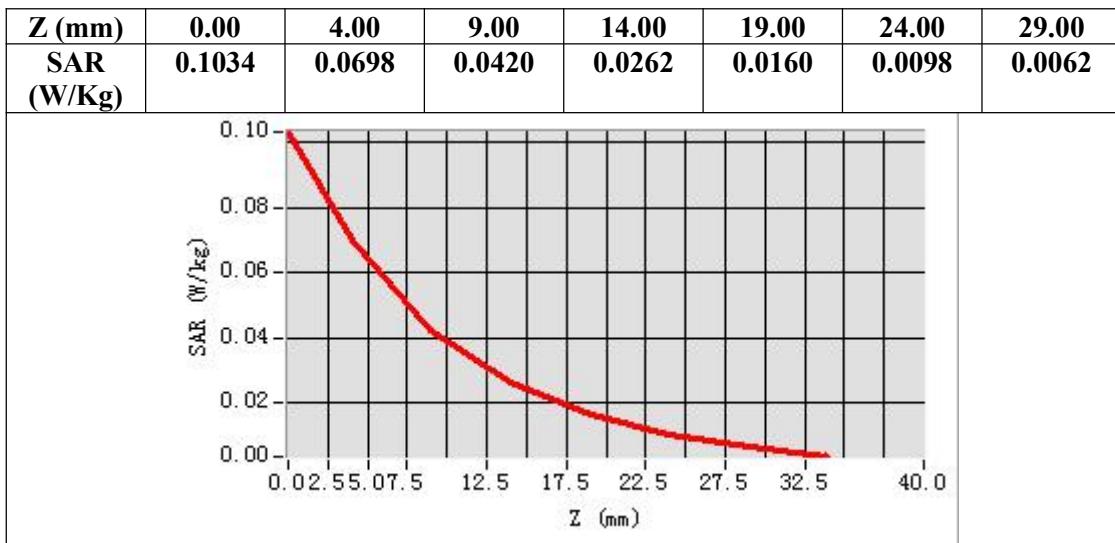
SAR 10g (W/Kg)	0.038322
SAR 1g (W/Kg)	0.066604

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Smart phone; Type: A140

Date: Mar. 28, 2024

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17; Frequency:1732.4 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma=1.39$ mho/m; $\epsilon_r =40.39$; $\rho= 1000$ kg/m³; Phantom section: Flat Section

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

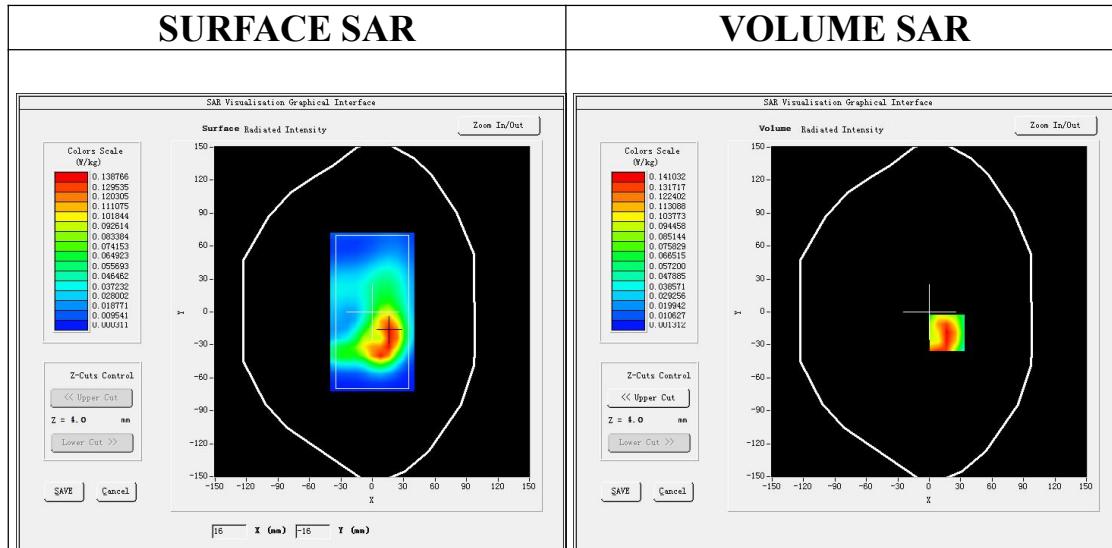
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=17.00, Y=-19.00
SAR Peak: 0.24 W/kg

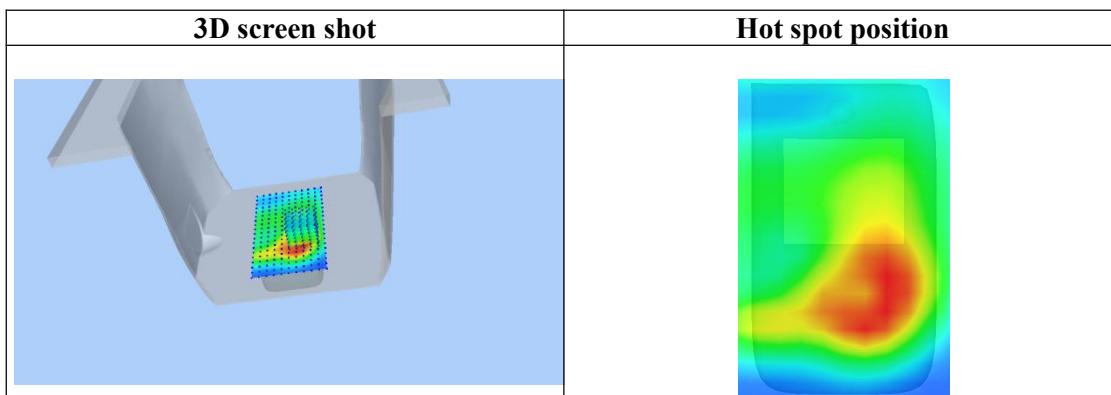
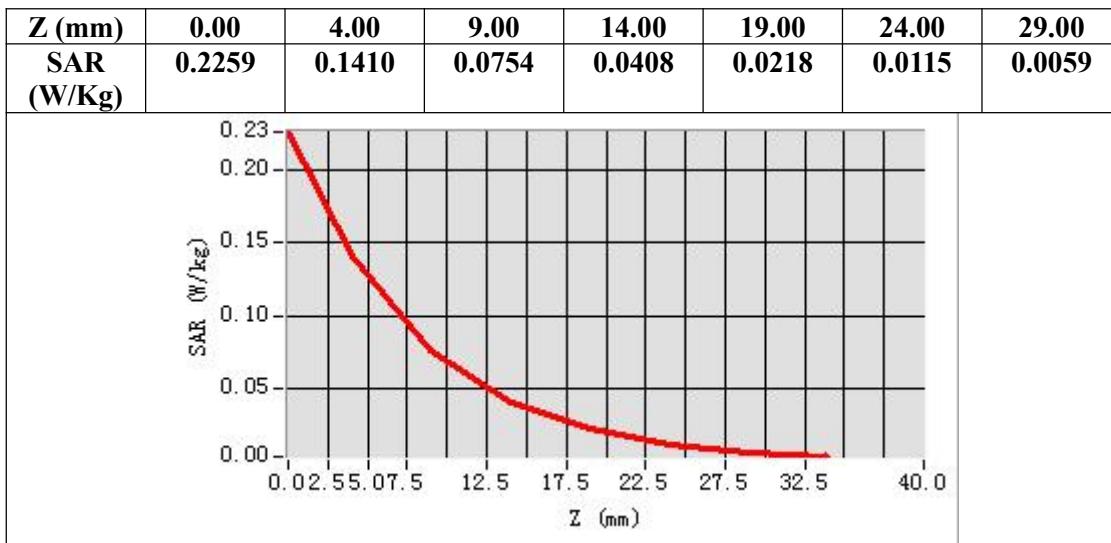
SAR 10g (W/Kg)	0.071924
SAR 1g (W/Kg)	0.132390

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Test Laboratory: AGC Lab
Date: Mar. 30, 2024
WCDMA Band V Mid-Touch-Right (RMC)
DUT: Smart phone; Type: A140

 Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 41.63$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

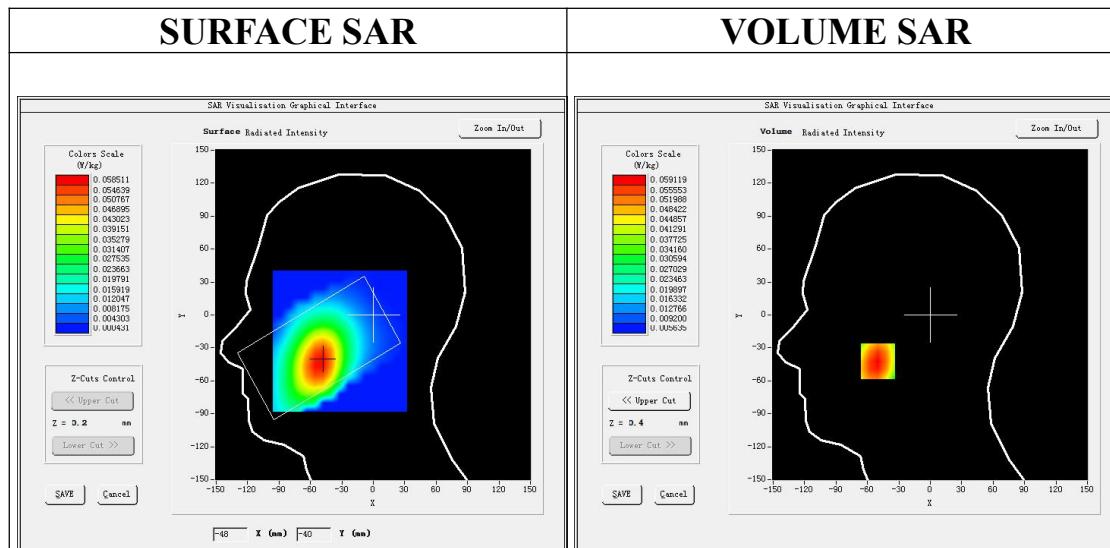
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V Mid-Touch- 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,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-42.00
SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.041573
SAR 1g (W/Kg)	0.057355

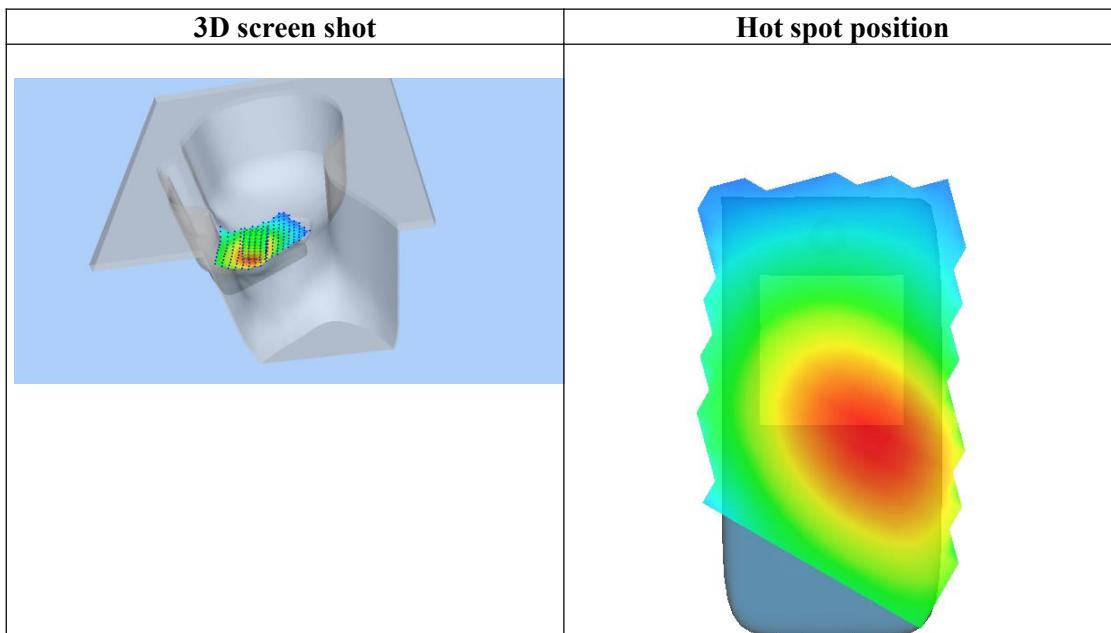
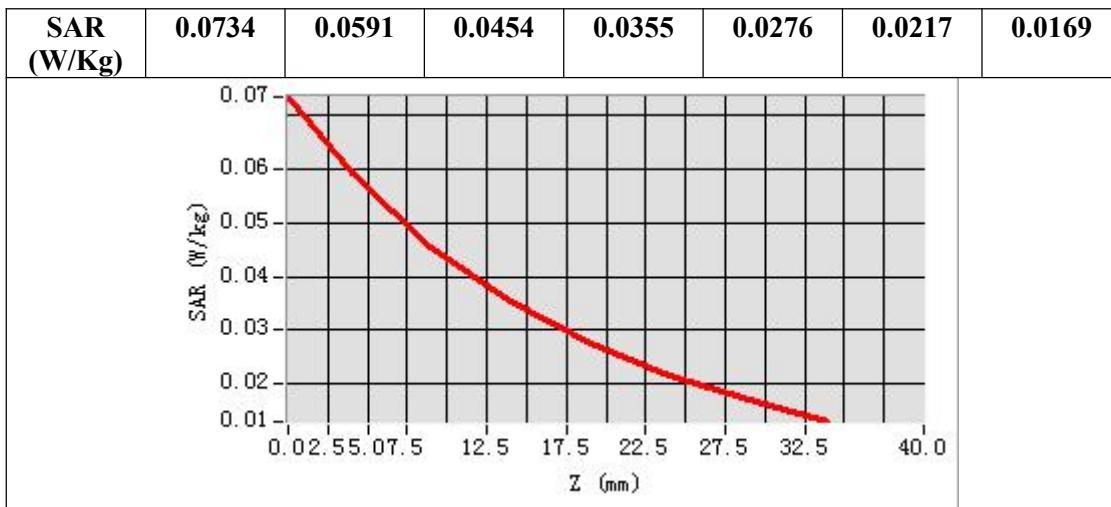
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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Test Laboratory: AGC Lab
Date: Mar. 30, 2024
WCDMA Band V Mid-Body-Towards Grounds (RMC)
DUT: Smart phone; Type: A140

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 41.63$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

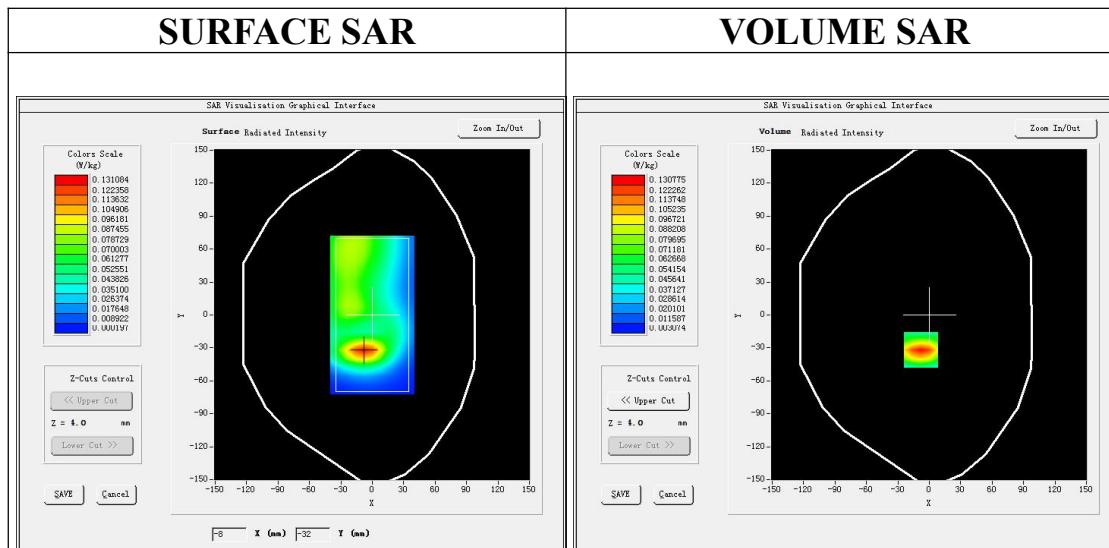
Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

Area Scan	surf_sam_plan.txt, $h= 5.00 \text{ mm}$
ZoomScan	5x5x7, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$, Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-8.00, Y=-32.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.065830
SAR 1g (W/Kg)	0.121537

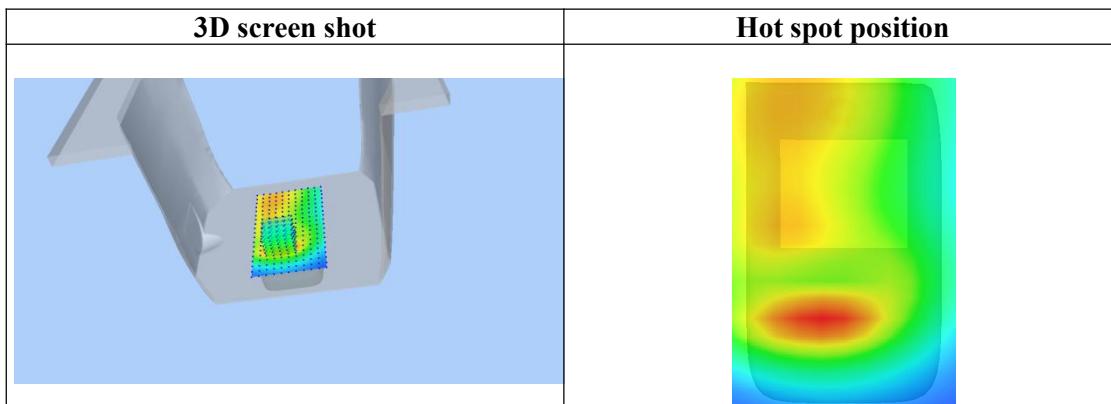
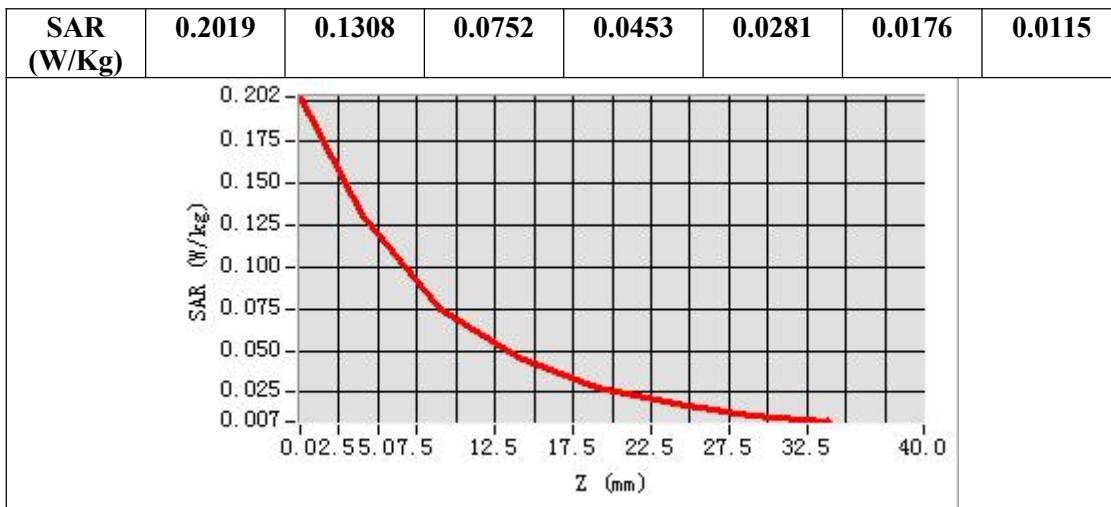
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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Test Laboratory: AGC Lab
LTE Band 2 Mid-Touch-Left (1 RB#0)
DUT: Smart phone; Type: A140

Date: Mar. 29, 2024

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;
 Frequency:1880MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.32$; $\rho = 1000$ kg/m³ ;
 Phantom section: Left Section
 Ambient temperature (°C): 22.3, Liquid temperature (°C): 22.1

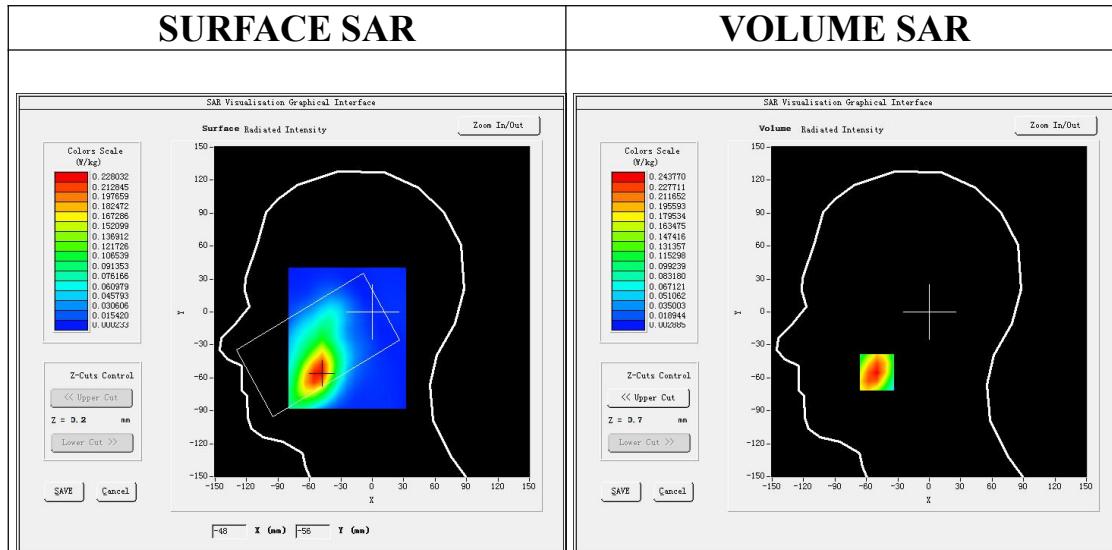
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 Mid- Touch-Left /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 2 Mid- Touch-Left /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	Left head
Device Position	Cheek
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-55.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.130231
SAR 1g (W/Kg)	0.234278

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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