

SAR Test Report

Report No.: AGC02762230802FH01

FCC ID : 2AL26-KS4-US

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Body Worn Camera

BRAND NAME : Reveal Media

MODEL NAME : KS4

APPLICANT : Reveal Media Limited

DATE OF ISSUE : Dec. 21, 2023

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

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 21, 2023	Valid	Initial Release

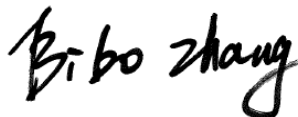
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Test Report	
Applicant Name	Reveal Media Limited
Applicant Address	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, United Kingdom
Manufacturer Name	Reveal Media Hong Kong Ltd.
Manufacturer Address	6/F.,Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Factory Name	Reveal Media Hong Kong Ltd.
Factory Address	6/F.,Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Product Designation	Body Worn Camera
Brand Name	Reveal Media
Model Name	KS4
EUT Voltage	DC3.8V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 282.1093 IEEE Std C95.1™-2005
Date of receipt of test item	Aug. 03, 2023
Test Date	Dec. 06, 2023 to Dec. 16, 2023
Report Template	AGCRT-US-4G/SAR (2021-04-20)

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

Prepared By



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Dec. 21, 2023

Reviewed By



Calvin Liu (Reviewer)

Dec. 21, 2023

Approved By



Max Zhang (Authorized Officer)

Dec. 21, 2023

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)		SAR Test Limit (W/kg)
	Body-worn(with 0mm separation)	Hotspot(with 0mm separation)	
UMTS Band II	0.962	0.962	1.6
UMTS Band IV	1.131	1.131	
UMTS Band V	0.705	0.705	
LTE Band 2	1.200	1.200	
LTE Band 4	0.920	0.920	
LTE Band 5	0.747	0.747	
LTE Band 12	0.717	0.717	
LTE Band 13	0.629	0.629	
LTE Band 14	0.512	0.512	
LTE Band 66	0.546	0.546	
LTE Band 71	0.433	0.433	
WIFI 2.4G	0.642	0.642	
5.2GHz (U-NII-1)	0.468	0.468	
5.3GHz (U-NII-2A)	0.430	0.430	
5.6GHz (U-NII-2C)	0.614	0.614	
5.8GHz (U-NII-3)	0.681	0.681	
Simultaneous Reported SAR	1.595		
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	Body Worn Camera
Test Model	KS4
Sample ID	230803007
Hardware Version	EP-VRM05RFB-02
Software Version	V1.0
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
WCDMA	
Support Band	☒ UMTS FDD Band II ☒ UMTS FDD Band V ☒ UMTS FDD Band IV ☐ UMTS FDD Band I ☐ UMTS FDD Band III ☐ UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 0.05dBi; Band IV: -3.85dBi; Band V: -0.13dBi
Max. Average Power	Band II: 23.28 dBm; Band IV: 23.67 dBm; Band V: 23.65 dBm
Bluetooth	
Bluetooth Version	V4.2
Operation Frequency	2402~2480MHz
Type of modulation	GFSK
Peak Power	7.406dBm
Antenna Gain	3.07dBi
2.4GHz WIFI	
WIFI Specification	☐ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n(20) ☐ 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 13.97dBm,11g:13.33dBm,11n(20):12.95dBm
Antenna Gain	1.16dBi

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EUT Description(Continue)

LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4 ☒ FDD Band 5 ☐ FDD Band 7 ☒ FDD Band 12 ☒ FDD Band 13 ☒ FDD Band 14 ☐ FDD Band 17 ☐ FDD Band 25 ☐ FDD Band 26 ☐ TDD Band 38 ☐ TDD Band 40 ☐ TDD Band 41 ☒ FDD Band 66 ☒ FDD Band 71
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz; Band 5:824-849MHz; Band 12:699-716MHz; Band 13: 777-787MHz; Band 14: 788-798MHz; Band 66:1700-1780MHz; Band 71:663-698MHz
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 12: 729-746 MHz; Band 13: 746-756MHz; Band 14: 758-768 MHz; Band 66:2110-2200MHz; Band 71:617-652MHz
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.05dBi; Band 4: -0.13dBi; Band 5: -3.85dBi; Band 12: -4.87dBi; Band 13: -4.25dBi; Band 14: -4.08dBi; Band 66: 0.11dBi; Band 71: -5.96dBi;
Max. Average Power	Band 2: 25.39dBm; Band 4: 23.99 dBm; Band 5: 22.69 dBm; Band 12: 23.88 dBm; Band 13: 23.70dBm; Band 14: 23.77 dBm; Band 66: 23.90dBm; Band 71: 20.11dBm;
5 GHz WIFI	
WIFI Specification	☒ 802.11a ☒ 802.11n20 ☒ 802.11n40 ☒ 802.11ac20 ☒ 802.11ac40 ☒ 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-2C: 5470MHz~5725MHz; U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 12.92dBm; U-NII-2A: 12.78dBm; U-NII-2C: 13.28dBm; U-NII-3: 12.04dBm
Antenna Gain	1.83dBi
Accessories	
Battery	Brand name: N/A Model No. : ICR011GB Voltage and Capacitance: 3.8 V & 1000mAh
Earphone	Brand name: N/A Model No. : N/A

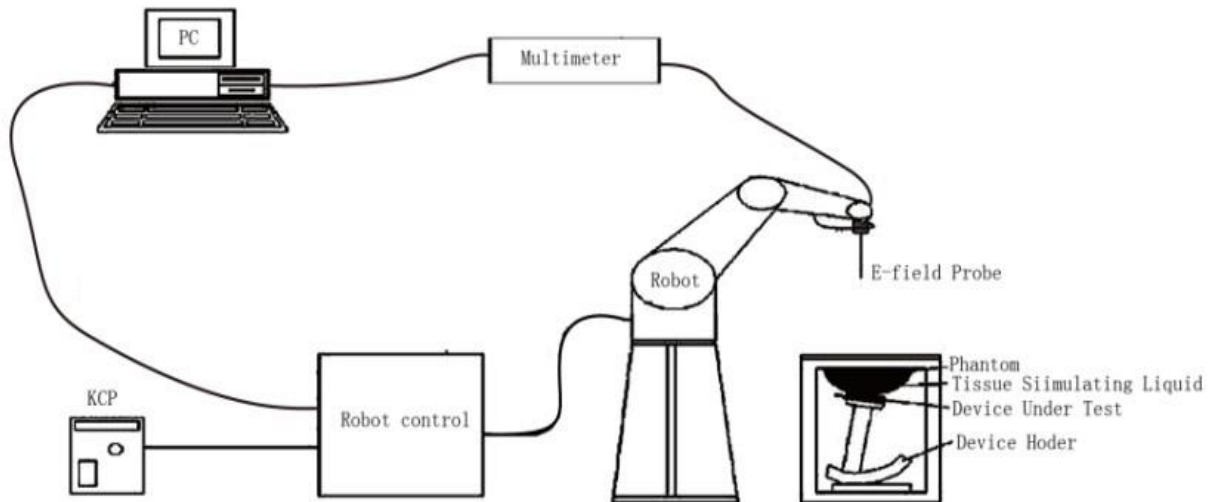
Note:1.CMU200 can measure the average power and Peak power at the same time
2.The sample used for testing is end product.
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	☒ Production unit ☐ Identical Prototype

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3. SAR MEASUREMENT SYSTEM

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



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

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

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	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 precisin of better 30%.	

3.3. Robot

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

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

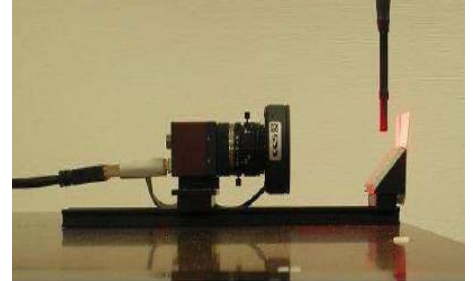
- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



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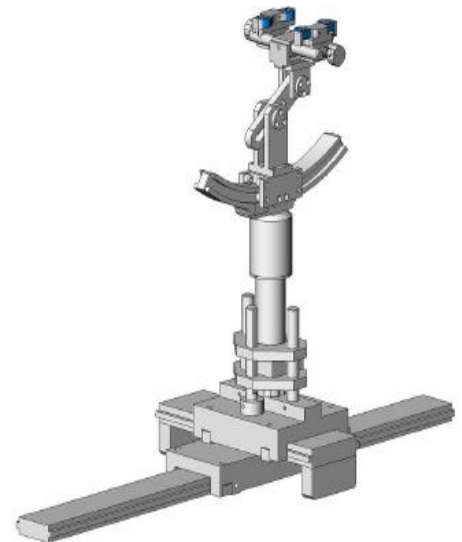
3.4. Video Positioning System

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



3.5. Device Holder

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



3.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

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



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

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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

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

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

SAR can be obtained using either of the following equations:

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

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

Where

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

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

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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

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

Step 4: Power Drift Measurement

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

4.3. RF Exposure Conditions

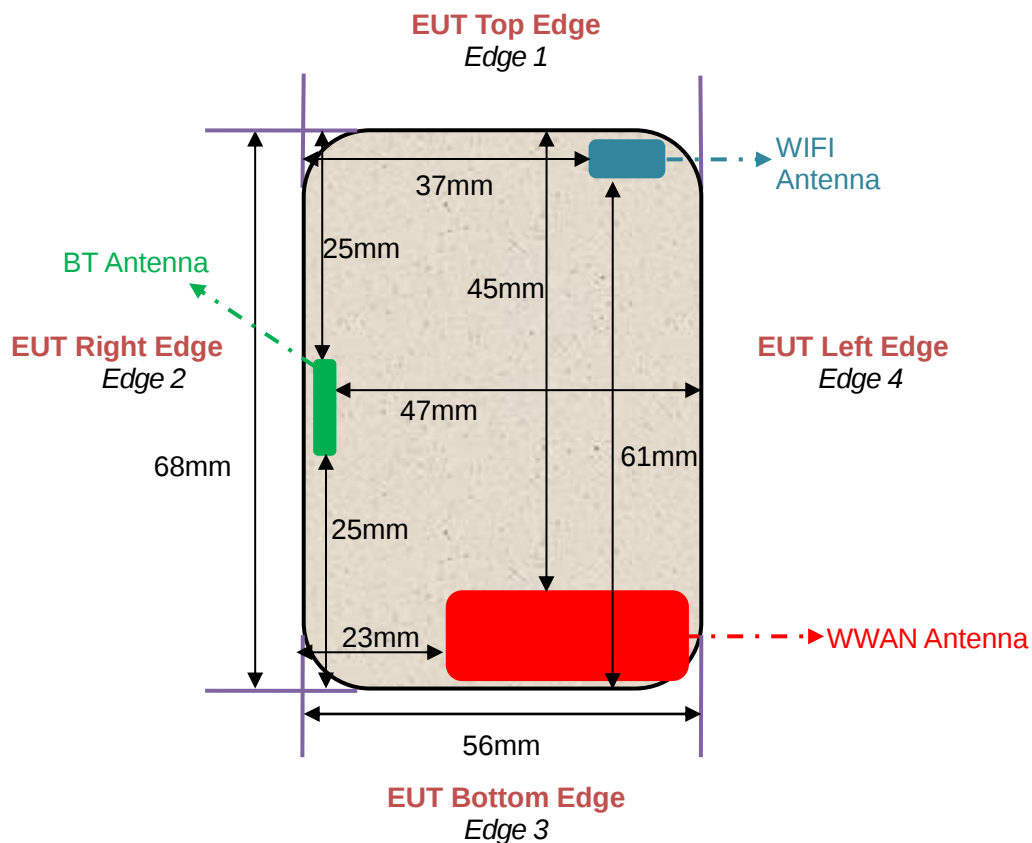
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports 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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5. TISSUE SIMULATING LIQUID

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

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

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

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

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5.3. Tissue Calibration Result

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

Tissue Stimulant Measurement for 750MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 41.9 (37.71-46.09)	δ [s/m] 0.89(0.801-0.979)		
	683	44.21	0.85	21.3	Dec. 06, 2023
	707.5	43.39	0.89		
	750	42.47	0.90		
	782	41.33	0.92		
	793	40.27	0.94		

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)		
	826.4	42.17	0.89	20.1	Dec. 10, 2023
	835	41.53	0.91		
	836.4	40.67	0.93		
	836.5	40.67	0.93		
	846.6	38.26	0.96		

Tissue Stimulant Measurement for 1750MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [°C]	Test time
		ϵ_r 40.1 (36.09-44.11)	δ [s/m] 1.37(1.233-1.507)		
	1712.4	43.26	1.26	20.0	Dec. 08, 2023
	1720	42.85	1.28		
	1732.4	41.36	1.31		
	1732.5	41.36	1.31		
	1745	39.91	1.35		
	1750	39.77	1.38		
	1752.6	38.60	1.39		
	1755	37.32	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)		
	1852.4	42.22	1.31	20.5	Dec. 12, 2023
	1860	41.91	1.33		
	1880	40.36	1.35		
	1900	39.44	1.37		
	1907.6	38.67	1.39		

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Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 39.2(35.28-43.12)	δ [s/m]1.80(1.62-1.98)		
	2437	41.22	1.82	20.7	Dec. 11, 2023
	2450	40.13	1.84		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 36.0(32.4-39.6)	δ [s/m] 4.66(4.194 -5.126)		
	5200	36.21	4.50	19.8	Dec. 13, 2023

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 35.9(34.105-37.695)	δ [s/m] 4.76(4.522-4.998)		
	5300	36.59	4.91	21.0	Dec. 14, 2023

Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 35.5(33.725-37.275)	δ [s/m] 5.07(4.8165-5.3235)		
	5600	36.55	5.14	21.0	Dec. 15, 2023

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters ($\pm 10\%$)		Tissue Temp [$^{\circ}\text{C}$]	Test time
		ϵ_r 35.3 (31.77-38.83)	δ [s/m] 5.27 (4.743-5.797)		
	5785	36.78	5.23	21.3	Dec. 16, 2023
	5800	35.23	5.25		

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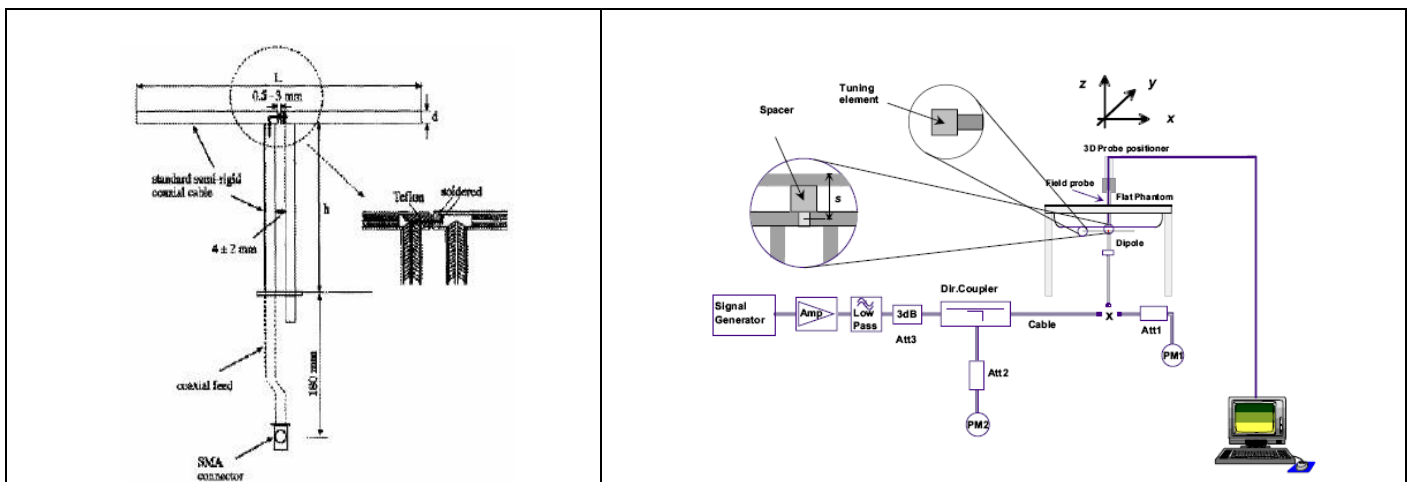
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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

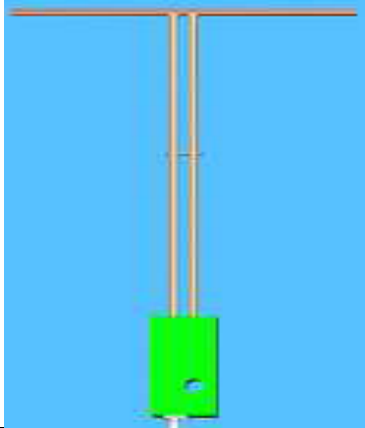


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6.2. SAR System Check

6.2.1. Dipoles

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

Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6

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1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6
5000MHz	20.6	40.3	3.6

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6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2300MHz &2450MHz&2600MHz & 5200-5800MHz for Head								
Validation Kit: SN 22/16 DIP 0G750-417& SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 22/16 DIP 2G300-412& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result ($\pm 10\%$)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
750	8.33	5.44	7.497-9.163	4.896-5.984	8.98	5.63	21.3	Dec. 06, 2023
835	9.67	6.14	8.703-10.637	5.526-6.754	9.74	6.08	20.1	Dec. 10, 2023
1800	37.76	19.60	33.984-41.536	17.640-21.560	38.34	19.43	20.0	Dec. 08, 2023
1900	41.26	20.86	37.134-45.386	18.774-22.946	42.32	20.56	20.5	Dec. 12, 2023
2450	54.32	24.25	48.888-59.752	21.825-26.675	52.95	23.84	20.7	Dec. 11, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	74.22	21.20	19.8	Dec. 13, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	77.79	22.41	21.0	Dec. 14, 2023
5600	78.20	24.12	70.380-86.02	21.708-26.532	82.33	23.29	21.0	Dec. 15, 2023
5800	75.69	22.44	68.121-83.259	20.196-24.684	80.65	23.23	21.3	Dec. 16, 2023

Note:

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

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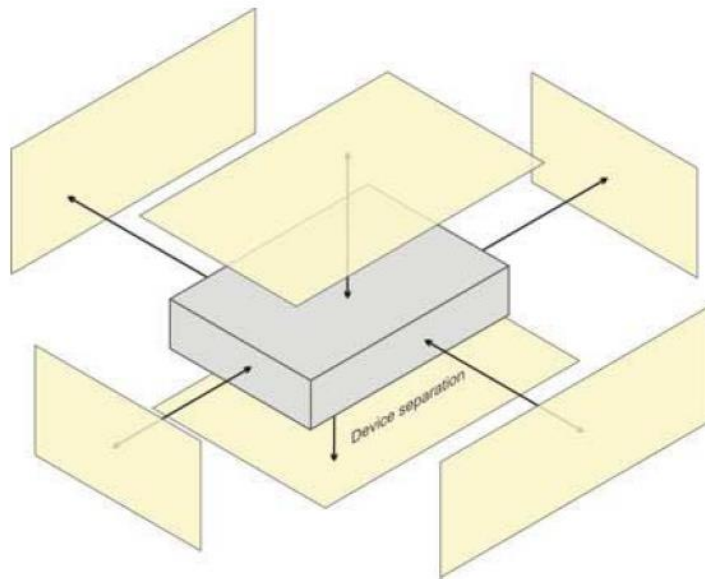
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7. EUT TEST POSITION

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

7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **0mm**.



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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 SID750	SN 22/16 DIP 0G750-417	N/A-	Apr. 28,2022	Apr. 27,2025
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	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Jun. 01, 2023	May 31, 2024
Vector Analyzer	Agilent / E4440A	MY44303916	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	Mar. 10, 2022	Mar. 09, 2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10, 2022	Mar. 09, 2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Feb. 15, 2023	Feb. 14, 2024
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	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	E.2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.616	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	E.2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.572	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	E.2.5	3	R	$\sqrt{3}$	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	$\sqrt{3}$	0	0	0	0	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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12. CONDUCTED POWER MEASUREMENT

UMTS BAND

HSDPA Setup Configuration:

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

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

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

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

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause

5.13.1AA, ΔACK and $\Delta NACK = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta CQI = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

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

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

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	22.52
	1880	22.72
	1907.6	23.28
WCDMA 1900 AMR	1852.4	22.23
	1880	22.73
	1907.6	22.41
HSDPA Subtest 1	1852.4	21.55
	1880	22.13
	1907.6	21.89
HSDPA Subtest 2	1852.4	21.58
	1880	22.14
	1907.6	21.83
HSDPA Subtest 3	1852.4	21.70
	1880	22.11
	1907.6	21.78
HSDPA Subtest 4	1852.4	21.80
	1880	21.05
	1907.6	22.19
HSUPA Subtest 1	1852.4	22.28
	1880	22.71
	1907.6	22.76
HSUPA Subtest 2	1852.4	22.04
	1880	22.32
	1907.6	22.44
HSUPA Subtest 3	1852.4	22.90
	1880	22.08
	1907.6	22.15
HSUPA Subtest 4	1852.4	21.00
	1880	21.23
	1907.6	20.33
HSUPA Subtest 5	1852.4	22.52
	1880	22.72
	1907.6	23.28

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UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	21.82
	1732.4	22.05
	1752.6	21.90
WCDMA 1700 AMR	1712.4	22.80
	1732.4	22.28
	1752.6	22.26
HSDPA Subtest 1	1712.4	21.23
	1732.4	21.76
	1752.6	23.65
HSDPA Subtest 2	1712.4	20.28
	1732.4	21.78
	1752.6	23.67
HSDPA Subtest 3	1712.4	21.30
	1732.4	21.78
	1752.6	22.66
HSDPA Subtest 4	1712.4	22.81
	1732.4	23.17
	1752.6	22.47
HSUPA Subtest 1	1712.4	23.33
	1732.4	21.66
	1752.6	21.97
HSUPA Subtest 2	1712.4	22.06
	1732.4	21.39
	1752.6	21.73
HSUPA Subtest 3	1712.4	21.81
	1732.4	21.15
	1752.6	21.49
HSUPA Subtest 4	1712.4	21.88
	1732.4	23.18
	1752.6	22.56
HSUPA Subtest 5	1712.4	21.82
	1732.4	22.05
	1752.6	21.10

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	22.20
	836.4	22.09
	846.6	21.82
WCDMA 850 AMR	826.4	22.21
	836.4	21.93
	846.6	22.64
HSDPA Subtest 1	826.4	23.65
	836.4	22.45
	846.6	21.19
HSDPA Subtest 2	826.4	23.64
	836.4	22.42
	846.6	20.18
HSDPA Subtest 3	826.4	21.70
	836.4	23.53
	846.6	20.16
HSDPA Subtest 4	826.4	22.05
	836.4	21.85
	846.6	20.65
HSUPA Subtest 1	826.4	21.69
	836.4	23.54
	846.6	20.27
HSUPA Subtest 2	826.4	21.44
	836.4	22.28
	846.6	21.92
HSUPA Subtest 3	826.4	22.16
	836.4	21.97
	846.6	21.72
HSUPA Subtest 4	826.4	22.28
	836.4	21.08
	846.6	20.75
HSUPA Subtest 5	826.4	22.20
	836.4	22.09
	846.6	21.82

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

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

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

LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	21.64	21.24	21.14
			3	0	21.83	21.18	21.09
			5	0	21.81	21.05	20.99
		3	0	0	21.77	22.24	21.08
			2	0	21.75	22.23	21.07
			3	0	21.78	22.06	21.01
		6	0	1	20.77	22.16	20.07
	16QAM	1	0	1	20.89	21.50	20.22
			3	1	21.10	21.43	20.22
			5	1	20.99	21.24	20.08
		3	0	1	20.66	22.13	20.01
			2	1	20.65	21.12	20.01
			3	1	20.68	23.95	21.93
		6	0	2	19.94	23.24	21.11
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	21.84	21.46	21.71
			7	0	22.10	21.23	21.46
			14	0	22.16	20.85	21.16
		8	0	1	20.83	20.38	20.48
			4	1	20.79	20.39	20.43
			7	1	20.98	20.10	20.14
		15	0	1	20.88	21.25	20.28
	16QAM	1	0	1	20.98	21.67	20.73
			7	1	21.15	21.42	20.36
			14	1	21.32	21.01	20.07
		8	0	2	19.93	23.37	19.54
			4	2	19.92	23.37	19.49
			7	2	20.02	23.17	19.27
		15	0	2	19.99	23.15	19.24

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18625	18900	19175
5MHz	QPSK	1	0	0	21.91	22.90	22.22
			13	0	22.12	21.21	21.63
			24	0	22.24	21.85	21.09
		12	0	1	20.97	22.54	20.76
			6	1	20.93	22.49	20.75
			13	1	21.07	23.88	20.21
		25	0	1	21.04	21.22	20.51
	16QAM	1	0	1	20.87	21.23	21.17
			13	1	21.07	22.55	20.55
			24	1	21.30	23.99	20.24
		12	0	2	19.98	23.60	19.81
			6	2	20.00	23.61	19.84
			13	2	20.12	23.04	19.36
		25	0	2	20.13	23.27	19.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	22.03	21.31	23.05
			25	0	22.46	21.21	22.07
			49	0	23.14	21.49	21.64
		25	0	1	21.03	22.77	21.54
			13	1	21.08	20.79	21.55
			25	1	21.56	23.83	20.73
		50	0	1	21.36	21.40	21.15
	16QAM	1	0	1	21.30	25.39	22.00
			25	1	21.56	24.25	20.95
			49	1	22.28	23.56	20.48
		25	0	2	20.08	23.91	20.56
			13	2	20.11	23.91	20.59
			25	2	20.64	22.84	19.82
		50	0	2	20.40	23.36	20.22

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18675	18900	19125
15MHz	QPSK	1	0	0	21.92	21.36	23.20
			38	0	22.66	22.08	22.50
			74	0	21.28	21.28	21.63
		36	0	1	21.52	21.33	21.46
			18	1	21.54	21.35	21.45
			39	1	21.50	20.33	21.45
		75	0	1	21.50	21.32	21.45
	16QAM	1	0	1	20.88	21.92	22.35
			38	1	21.53	20.69	21.45
			74	1	23.32	23.71	20.73
		36	0	2	21.51	21.33	21.49
			18	2	21.50	21.32	21.45
			39	2	21.47	21.31	21.48
		75	0	2	20.54	23.28	20.50
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	24.85	24.93	25.17
			50	0	22.50	21.14	22.71
			99	0	20.48	23.67	21.64
		50	0	1	21.22	21.02	21.92
			25	1	21.17	22.02	21.87
			50	1	22.87	23.35	21.25
		100	0	1	22.12	21.27	21.69
	16QAM	1	0	1	21.27	22.95	22.47
			50	1	22.26	21.06	21.59
			99	1	21.98	22.84	20.57
		50	0	2	20.28	21.06	20.95
			25	2	20.19	20.08	20.95
			50	2	21.86	22.37	20.32
		100	0	2	21.18	23.35	20.68

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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	20.24	23.98	21.40
			3	0	20.07	21.10	22.52
			5	0	19.99	21.08	22.59
		3	0	0	20.21	23.94	22.48
			2	0	20.20	23.94	22.48
			3	0	20.03	23.97	22.58
		6	0	1	19.10	22.85	21.53
	16QAM	1	0	1	19.41	22.98	21.66
			3	1	19.14	23.04	21.79
			5	1	19.02	23.01	21.83
		3	0	1	19.15	22.85	21.43
			2	1	19.13	22.87	21.43
			3	1	20.95	22.79	21.55
		6	0	2	20.19	21.84	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	20.27	23.99	21.59
			7	0	19.91	21.20	21.86
			14	0	19.63	21.36	21.97
		8	0	1	19.10	23.09	20.61
			4	1	19.06	23.08	21.61
			7	1	20.80	23.23	21.80
		15	0	1	20.88	23.17	21.66
	16QAM	1	0	1	19.50	23.11	21.62
			7	1	19.13	23.27	21.80
			14	1	20.82	23.43	20.07
		8	0	2	20.17	22.09	21.66
			4	2	20.20	22.08	20.66
			7	2	21.86	22.29	21.82
		15	0	2	21.88	21.98	21.51

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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	20.36	23.96	21.19
			13	0	19.76	21.24	21.64
			24	0	19.47	21.63	21.88
		12	0	1	20.96	23.00	21.22
			6	1	20.96	23.03	20.23
			13	1	20.54	23.36	20.64
		25	0	1	20.78	23.09	21.51
	16QAM	1	0	1	19.79	22.92	21.42
			13	1	19.05	23.16	21.06
			24	1	20.83	23.59	21.24
		12	0	2	20.00	22.05	20.34
			6	2	21.00	22.02	20.32
			13	2	21.60	22.36	21.70
		25	0	2	20.78	22.11	21.47
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	20.32	23.63	21.82
			25	0	19.42	21.25	20.96
			49	0	20.81	21.52	21.24
		25	0	1	20.77	22.80	21.17
			13	1	20.71	22.84	20.16
			25	1	19.16	23.74	21.52
		50	0	1	20.91	23.13	21.92
	16QAM	1	0	1	19.54	22.54	21.11
			25	1	20.54	23.08	21.12
			49	1	20.28	21.44	20.52
		25	0	2	21.83	21.90	20.21
			13	2	20.79	21.89	21.21
			25	2	20.26	22.75	21.60
		50	0	2	21.89	22.24	20.03

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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	19.82	22.68	21.31
			38	0	20.89	21.13	20.05
			74	0	21.49	21.14	20.64
		36	0	1	19.23	22.90	21.04
			18	1	19.14	22.90	20.02
			39	1	19.16	22.90	20.02
		75	0	1	19.15	22.89	20.02
	16QAM	1	0	1	19.34	21.91	21.45
			38	1	19.33	23.38	20.17
			74	1	21.50	21.43	21.71
		36	0	2	19.22	22.90	21.02
			18	2	19.14	22.90	20.02
			39	2	19.15	22.89	20.03
		75	0	2	18.18	21.94	21.06
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	23.85	23.63	23.60
			50	0	20.50	23.91	20.19
			99	0	22.38	21.16	21.70
		50	0	1	18.59	21.97	21.41
			25	1	18.64	21.90	21.39
			50	1	21.08	23.61	20.53
		100	0	1	19.71	22.86	21.61
	16QAM	1	0	1	19.37	20.64	23.52
			50	1	20.53	22.87	21.20
			99	1	22.54	21.38	21.61
		50	0	2	20.67	20.98	21.41
			25	2	21.62	21.00	23.37
			50	2	20.08	22.71	22.50
		100	0	2	18.69	21.88	21.66

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	22.50	19.16	22.01
			3	0	22.28	19.43	22.31
			5	0	22.14	19.63	22.34
		3	0	0	22.42	19.21	22.00
			2	0	22.46	19.14	22.12
			3	0	22.19	19.48	22.23
		6	0	1	21.40	18.33	21.16
	16QAM	1	0	1	21.75	18.29	21.01
			3	1	21.61	18.57	21.27
			5	1	21.37	18.76	21.24
		3	0	1	21.40	18.14	20.93
			2	1	21.40	18.18	20.96
			3	1	21.16	18.36	21.11
		6	0	2	20.42	17.40	20.11
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	22.63	18.81	21.43
			7	0	22.01	19.56	22.02
			14	0	21.33	20.18	22.25
		8	0	1	21.35	18.09	20.49
			4	1	21.37	18.10	20.47
			7	1	20.78	18.82	20.95
		15	0	1	21.05	18.49	20.69
	16QAM	1	0	1	21.82	17.88	20.57
			7	1	21.19	18.81	21.09
			14	1	20.56	19.35	21.38
		8	0	2	20.43	17.06	19.57
			4	2	20.43	17.08	19.57
			7	2	19.88	17.84	20.03
		15	0	2	20.16	17.43	19.79

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	22.69	18.45	20.49
			13	0	21.61	19.48	21.51
			24	0	20.34	20.61	22.16
		12	0	1	21.25	17.83	19.87
			6	1	21.26	17.81	19.88
			13	1	19.92	19.11	20.82
		25	0	1	20.60	18.49	20.36
	16QAM	1	0	1	21.74	17.80	19.35
			13	1	20.59	18.81	20.49
			24	1	19.35	19.91	21.20
		12	0	2	20.23	20.87	18.88
			6	2	20.24	20.85	18.85
			13	2	18.97	18.19	19.84
		25	0	2	19.70	17.51	19.36
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	22.60	22.44	21.96
			25	0	19.88	19.29	20.12
			49	0	18.65	22.20	22.38
		25	0	1	20.42	19.63	18.14
			13	1	20.41	20.65	18.11
			25	1	17.93	19.75	20.32
		50	0	1	19.45	18.80	19.28
	16QAM	1	0	1	21.84	20.64	20.20
			25	1	19.06	18.54	19.50
			49	1	17.73	21.40	21.62
		25	0	2	19.44	20.55	20.17
			13	2	19.44	20.65	20.18
			25	2	20.97	18.84	19.33
		50	0	2	18.43	20.78	18.23

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	21.58	22.10	20.24
			3	0	21.49	21.72	20.03
			5	0	21.44	21.46	20.98
		3	0	0	21.57	21.95	21.14
			2	0	21.54	22.01	20.17
			3	0	20.42	21.63	20.01
		6	0	1	23.55	20.94	20.07
	16QAM	1	0	1	23.81	21.24	20.35
			3	1	23.67	20.72	20.18
			5	1	23.69	20.61	20.08
		3	0	1	23.49	20.92	20.08
			2	1	23.49	20.92	21.06
			3	1	23.44	20.47	20.94
		6	0	2	22.64	19.92	20.07
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	21.56	22.70	18.19
			7	0	21.40	21.82	20.47
			14	0	21.20	21.09	20.05
		8	0	1	23.58	21.38	20.81
			4	1	23.60	21.38	20.94
			7	1	23.48	20.55	19.40
		15	0	1	23.53	21.06	19.72
	16QAM	1	0	1	23.83	21.84	20.20
			7	1	23.63	20.95	20.69
			14	1	23.42	20.23	20.15
		8	0	2	22.64	20.35	21.93
			4	2	22.61	20.29	21.94
			7	2	22.54	19.55	20.50
		15	0	2	22.52	19.95	20.57

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23035	23095	23155
5MHz	QPSK	1	0	0	21.81	23.24	19.34
			13	0	21.40	21.93	20.98
			24	0	23.88	20.43	20.08
		12	0	1	23.64	21.74	20.86
			6	1	23.63	21.77	20.83
			13	1	23.11	20.29	21.67
		25	0	1	23.36	21.07	21.35
	16QAM	1	0	1	23.70	22.57	18.43
			13	1	23.38	21.30	21.23
			24	1	22.85	19.79	20.34
		12	0	2	22.64	20.80	20.95
			6	2	22.60	20.80	20.91
			13	2	22.09	19.34	21.71
		25	0	2	22.39	20.12	20.39
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	23.76	23.65	22.72
			25	0	23.44	21.64	19.33
			49	0	21.24	18.77	20.22
		25	0	1	23.42	22.23	20.21
			13	1	23.39	22.19	20.24
			25	1	21.66	19.60	20.26
		50	0	1	22.54	21.02	18.97
	16QAM	1	0	1	21.05	23.36	21.90
			25	1	22.75	20.92	18.31
			49	1	20.48	18.08	20.39
		25	0	2	22.35	21.23	19.27
			13	2	22.36	21.23	19.26
			25	2	20.69	18.61	21.28
		50	0	2	21.50	19.97	18.04

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Conducted Power of LTE Band 13(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23205	23230	23255
5MHz	QPSK	1	0	0	21.71	19.98	20.55
			13	0	20.38	21.34	21.05
			24	0	21.01	21.47	21.04
		12	0	1	21.47	21.58	20.90
			6	1	19.63	20.45	21.83
			13	1	19.60	21.51	21.85
		25	0	1	20.26	21.75	21.85
	16QAM	1	0	1	21.92	19.07	20.30
			13	1	18.78	21.71	21.30
			24	1	19.46	21.86	20.25
		12	0	2	19.95	21.11	21.05
			6	2	18.66	21.91	21.11
			13	2	18.63	19.67	21.83
		25	0	2	19.26	20.30	21.12
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					23230		
10MHz	QPSK	1	0	0	23.10		
			25	0	21.28		
			49	0	20.25		
		25	0	1	20.34		
			13	1	19.51		
			25	1	19.25		
		50	0	1	19.62		
	16QAM	1	0	1	19.75		
			25	1	19.76		
			49	1	18.73		
		25	0	2	20.66		
			13	2	23.39		
			25	2	23.70		
		50	0	2	20.84		

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Conducted Power of LTE Band 14(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23305	23330	23355
5MHz	QPSK	1	0	0	21.19	20.19	21.23
			13	0	21.31	21.58	21.38
			24	0	21.18	21.42	21.07
		3	0	1	23.47	23.37	23.44
			6	1	23.37	23.35	23.34
			13	1	23.37	23.52	23.16
		6	0	1	23.35	23.36	23.31
	16QAM	1	0	1	22.78	23.73	23.36
			13	1	22.93	23.38	23.44
			24	1	23.10	23.31	23.10
		3	0	2	22.46	22.49	22.29
			6	2	22.36	22.39	22.45
			13	2	22.34	22.48	22.24
		6	0	2	21.19	20.19	21.23
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					23330		
10MHz	QPSK	1	0	0	23.32		
			25	0	21.50		
			49	0	21.09		
		8	0	1	23.41		
			13	1	23.41		
			25	1	23.39		
		15	0	1	23.35		
	16QAM	1	0	1	23.42		
			25	1	23.77		
			49	1	23.04		
		8	0	2	22.47		
			13	2	22.38		
			25	2	22.30		
		15	0	2	22.30		

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Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131979	132422	132665
1.4MHz	QPSK	1	0	0	20.17	20.05	20.98
			2	0	19.97	20.20	21.24
			5	0	19.87	20.29	21.21
		3	0	0	20.11	20.09	20.86
			1	0	20.14	21.06	21.93
			3	0	19.93	20.25	21.94
		6	0	1	19.05	21.10	21.88
	16QAM	1	0	1	19.34	20.16	21.93
			2	1	19.25	20.45	21.99
			5	1	19.07	20.39	21.89
		3	0	1	19.09	20.04	21.79
			1	1	19.10	21.99	20.92
			3	1	18.85	21.13	20.90
		6	0	2	18.16	20.23	21.86
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131987	132422	132657
3MHz	QPSK	1	0	0	20.45	21.99	20.90
			8	0	19.94	20.25	21.15
			14	0	19.67	20.60	20.09
		8	0	1	19.07	20.14	21.81
			4	1	19.11	20.14	20.77
			7	1	18.65	20.41	21.90
		15	0	1	18.85	20.22	20.85
	16QAM	1	0	1	19.50	21.24	20.81
			8	1	19.12	20.51	20.02
			14	1	18.66	21.77	21.12
		8	0	2	18.04	20.21	20.86
			4	2	18.04	21.14	21.85
			7	2	17.68	20.41	21.06
		15	0	2	17.90	21.09	20.77

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Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131997	132422	132647
5MHz	QPSK	1	0	0	20.34	21.89	20.59
			12	0	19.51	21.29	20.61
			24	0	19.26	20.91	21.76
		12	0	1	18.96	20.03	20.53
			6	1	18.92	20.02	21.56
			13	1	18.42	20.63	21.75
		25	0	1	18.64	20.28	21.63
	16QAM	1	0	1	19.15	21.17	20.61
			12	1	18.52	21.64	20.85
			24	1	18.30	21.23	21.13
		12	0	2	20.93	21.04	21.57
			6	2	20.90	21.04	20.58
			13	2	20.37	21.67	21.75
		25	0	2	20.66	20.26	21.67
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132022	132422	132622
10MHz	QPSK	1	0	0	19.43	21.66	21.06
			24	0	19.26	20.18	20.32
			49	0	19.98	21.88	21.93
		25	0	1	18.34	20.80	21.42
			12	1	18.36	20.80	21.39
			25	1	18.79	21.07	21.62
		50	0	1	18.65	20.42	20.47
	16QAM	1	0	1	20.59	23.90	20.02
			24	1	18.41	21.45	21.35
			49	1	20.14	21.09	21.17
		25	0	2	20.48	21.77	21.44
			12	2	20.40	23.76	20.49
			25	2	21.04	21.13	21.71
		50	0	2	21.68	21.40	21.61

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Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132047	132422	132597
15MHz	QPSK	1	0	0	21.16	20.86	20.41
			38	0	21.56	21.89	20.57
			74	0	21.02	21.63	21.57
		38	0	1	21.07	20.04	21.65
			18	1	21.06	21.36	21.66
			37	1	21.05	21.36	20.71
		75	0	1	21.05	21.34	20.68
	16QAM	1	0	1	20.15	20.04	20.58
			38	1	21.16	20.77	20.61
			74	1	23.02	20.39	20.09
		38	0	2	21.06	21.03	20.68
			18	2	21.06	21.35	20.72
			37	2	21.05	21.36	20.68
		75	0	2	20.11	21.39	21.67
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132072	132422	132572
20MHz	QPSK	1	0	0	19.90	21.46	21.00
			49	0	20.85	21.14	21.51
			99	0	21.83	20.02	20.82
		50	0	1	18.59	21.24	21.02
			25	1	18.57	21.23	20.97
			50	1	21.04	20.52	21.55
		100	0	1	19.73	21.52	21.75
	16QAM	1	0	1	18.89	20.03	21.31
			49	1	19.77	21.82	21.68
			99	1	22.52	20.56	20.13
		50	0	2	17.65	23.24	21.04
			25	2	17.64	23.28	21.05
			50	2	20.13	20.48	21.61
		100	0	2	18.87	21.58	21.86

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Conducted Power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133147	133297	133447
5MHz	QPSK	1	0	0	19.68	19.80	19.31
			12	0	19.53	19.77	19.22
			24	0	19.44	19.77	18.96
		12	0	1	18.48	18.77	18.24
			6	1	18.53	18.80	18.23
			13	1	18.46	18.74	17.99
		25	0	1	18.53	18.74	18.11
	16QAM	1	0	1	18.55	19.22	18.25
			12	1	18.59	19.13	18.24
			24	1	18.44	19.21	18.04
		12	0	2	17.66	17.76	17.16
			6	2	17.56	17.76	17.25
			13	2	17.50	17.80	17.08
		25	0	2	17.55	17.67	17.19
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133172	133297	133422
10MHz	QPSK	1	0	0	19.81	19.86	19.73
			24	0	19.51	19.74	19.19
			49	0	19.82	19.71	19.03
		25	0	1	18.71	18.91	18.46
			12	1	18.71	18.89	18.45
			25	1	18.63	18.83	18.23
		50	0	1	18.62	18.81	18.26
	16QAM	1	0	1	19.02	19.06	18.58
			24	1	18.76	18.88	18.11
			49	1	18.88	18.86	18.08
		25	0	2	17.69	17.97	17.50
			12	2	17.68	17.97	17.54
			25	2	17.57	17.86	17.21
		50	0	2	17.63	17.78	17.29

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Conducted Power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133197	133297	133397
15MHz	QPSK	1	0	0	19.85	19.76	19.83
			38	0	19.74	19.63	19.50
			74	0	19.76	19.62	19.15
		38	0	1	19.04	19.29	18.84
			18	1	18.89	19.10	18.46
			37	1	19.02	19.12	18.05
		75	0	1	18.72	18.64	18.46
	16QAM	1	0	1	19.03	19.31	18.66
			38	1	18.84	19.07	18.44
			74	1	18.90	19.11	17.94
		38	0	2	19.01	19.23	18.65
			18	2	18.85	19.22	18.29
			37	2	18.90	19.12	17.93
		75	0	2	17.71	17.60	17.42
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133222	133322	133372
20MHz	QPSK	1	0	0	20.10	19.94	19.92
			49	0	20.11	19.70	19.43
			99	0	19.68	19.30	18.91
		50	0	1	18.83	18.76	18.68
			25	1	18.82	18.80	18.67
			50	1	18.72	18.60	18.44
		100	0	1	18.79	18.71	18.50
	16QAM	1	0	1	19.09	19.32	18.86
			49	1	18.71	18.67	18.34
			99	1	19.00	18.89	18.19
		50	0	2	17.77	17.82	17.68
			25	2	17.76	17.83	17.69
			50	2	17.68	17.65	17.44
		100	0	2	17.77	17.64	17.44

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

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

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

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

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

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

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 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	13.97
		06	2437	13.72
		11	2462	13.74
802.11g	6	01	2412	13.18
		06	2437	13.09
		11	2462	13.33
802.11n(20)	6.5	01	2412	12.95
		06	2437	12.72
		11	2462	12.85

Bluetooth_V4.2(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	7.406
	19	2440	6.212
	39	2480	5.598

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5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	12.48	12.42	12.38	12.25	12.06	12.06	12.05	12.03
	40	5200	12.67	12.52	12.51	12.33	12.16	12.01	11.81	11.77
	44	5220	12.51	12.34	12.16	12.11	11.93	11.79	11.69	11.68
	48	5240	12.92	12.85	12.80	12.75	12.57	12.55	12.45	12.44
	52	5260	12.57	12.47	12.40	12.37	12.32	12.25	12.08	12.07
	56	5280	12.71	12.71	12.54	12.44	12.34	12.26	12.11	12.02
	60	5300	12.76	12.69	12.62	12.52	12.48	12.43	12.26	12.18
	64	5320	12.78	12.62	12.51	12.32	12.17	12.14	12.07	11.90
	100	5500	12.84	12.77	12.70	12.53	12.46	12.28	12.24	12.22
	104	5520	12.91	12.76	12.71	12.58	12.42	12.40	12.22	12.17
	108	5540	12.99	12.86	12.81	12.75	12.73	12.62	12.48	12.36
	112	5560	13.02	12.98	12.81	12.73	12.61	12.53	12.44	12.34
	116	5580	13.13	12.96	12.84	12.64	12.61	12.52	12.43	12.27
	120	5600	13.28	13.11	13.05	12.95	12.93	12.92	12.85	12.70
	124	5620	12.89	12.70	12.60	12.45	12.41	12.38	12.25	12.06
	128	5640	13.12	12.96	12.92	12.79	12.77	12.65	12.58	12.55
	132	5660	13.01	12.84	12.74	12.71	12.55	12.54	12.38	12.23
	136	5680	12.91	12.80	12.72	12.56	12.38	12.34	12.26	12.08
	140	5700	12.79	12.64	12.45	12.28	12.19	12.13	12.10	11.98
	149	5745	12.04	11.90	11.76	11.64	11.60	11.56	11.49	11.33
	157	5785	11.77	11.68	11.55	11.43	11.42	11.32	11.12	10.97
	165	5825	11.02	10.94	10.86	10.67	10.66	10.47	10.47	10.43

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	10.71	10.62	10.61	10.54	10.52	10.38	10.33	10.29
	40	5200	11.06	10.87	10.70	10.63	10.58	10.41	10.32	10.15
	44	5220	11.02	10.90	10.75	10.72	10.62	10.61	10.61	10.47
	48	5240	11.16	11.16	11.14	11.08	10.91	10.75	10.56	10.48
	52	5260	11.35	11.26	11.23	11.16	11.15	11.04	10.89	10.76
	56	5280	11.28	11.15	11.12	10.98	10.93	10.89	10.71	10.57
	60	5300	11.64	11.49	11.33	11.25	11.14	11.12	11.00	10.97
	64	5320	11.78	11.64	11.53	11.47	11.47	11.43	11.34	11.29
	100	5500	11.73	11.65	11.53	11.36	11.35	11.20	11.19	11.10
	104	5520	11.81	11.61	11.56	11.56	11.50	11.37	11.19	11.04
	108	5540	11.76	11.59	11.42	11.34	11.15	10.96	10.82	10.70
	112	5560	11.40	11.24	11.20	11.12	11.07	10.97	10.91	10.77
	116	5580	11.67	11.50	11.37	11.31	11.12	11.08	11.07	11.04
	120	5600	11.90	11.80	11.69	11.65	11.61	11.43	11.33	11.29
	124	5620	11.89	11.83	11.71	11.56	11.56	11.36	11.20	11.03
	128	5640	11.81	11.69	11.60	11.49	11.39	11.35	11.23	11.05
	132	5660	11.78	11.62	11.42	11.28	11.20	11.18	11.14	11.10
	136	5680	11.60	11.42	11.32	11.22	11.21	11.02	10.85	10.69
	140	5700	11.44	11.35	11.21	11.07	11.00	10.81	10.73	10.55
	149	5745	10.74	10.60	10.47	10.29	10.16	9.97	9.81	9.64
	157	5785	10.22	10.09	9.95	9.94	9.85	9.79	9.78	9.73
	165	5825	9.72	9.66	9.41	9.36	9.29	9.26	9.20	9.19
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	10.58	10.43	10.27	10.16	10.10	10.03	9.98	9.87
	46	5230	10.90	10.83	10.71	10.52	10.43	10.40	10.23	10.06
	54	5270	11.10	10.93	10.75	10.65	10.49	10.43	10.38	10.29
	62	5310	11.39	11.30	11.27	11.11	10.97	10.84	10.84	10.66
	102	5510	11.47	11.42	11.41	11.38	11.27	11.25	11.10	11.07
	110	5550	11.22	11.19	11.14	11.05	11.04	10.94	10.80	10.80
	118	5590	11.48	11.36	11.18	11.15	10.96	10.77	10.68	10.53
	126	5630	11.13	10.96	10.85	10.66	10.46	10.36	10.31	10.13
	134	5670	11.27	11.18	11.09	11.09	11.05	10.96	10.82	10.80
	151	5755	10.58	10.46	10.31	10.15	9.98	9.78	9.68	9.66
	159	5795	9.90	9.73	9.53	9.39	9.20	9.10	9.06	9.06

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	10.93	10.82	10.69	10.59	10.41	10.28	10.19	10.13
	40	5200	11.19	11.10	11.04	11.04	10.97	10.82	10.74	10.72
	44	5220	11.04	10.91	10.86	10.69	10.67	10.56	10.39	10.23
	48	5240	11.38	11.31	11.11	11.08	10.90	10.84	10.71	10.52
	52	5260	11.43	11.26	11.23	11.05	10.94	10.82	10.79	10.78
	56	5280	11.31	11.19	11.00	10.81	10.72	10.66	10.61	10.55
	60	5300	11.72	11.59	11.56	11.36	11.23	11.11	11.02	11.00
	64	5320	11.86	11.66	11.52	11.38	11.35	11.18	11.02	10.93
	100	5500	11.74	11.57	11.56	11.46	11.33	11.20	11.10	11.09
	104	5520	11.81	11.77	11.63	11.61	11.49	11.40	11.38	11.33
	108	5540	11.36	11.34	11.28	11.24	11.05	10.90	10.86	10.71
	112	5560	11.27	11.20	11.07	10.90	10.71	10.71	10.66	10.57
	116	5580	11.63	11.51	11.32	11.30	11.16	11.08	10.90	10.85
	120	5600	11.78	11.63	11.53	11.40	11.30	11.11	11.06	10.92
	124	5620	11.71	11.59	11.46	11.37	11.33	11.20	11.08	11.02
	128	5640	11.61	11.59	11.58	11.44	11.38	11.29	11.23	11.06
	132	5660	11.49	11.42	11.23	11.07	10.96	10.77	10.72	10.62
	136	5680	11.43	11.34	11.22	11.13	10.94	10.85	10.75	10.68
	140	5700	11.53	11.52	11.41	11.37	11.33	11.17	11.09	10.95
	149	5745	10.67	10.54	10.51	10.34	10.14	10.06	9.92	9.85
	157	5785	10.34	10.15	10.06	9.90	9.75	9.70	9.68	9.53
	165	5825	9.81	9.79	9.78	9.73	9.65	9.50	9.40	9.31
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.10	10.95	10.80	10.71	10.59	10.39	10.24	10.24
	46	5230	11.24	11.11	11.04	11.03	10.93	10.74	10.63	10.43
	54	5270	11.30	11.29	11.24	11.07	10.98	10.96	10.95	10.80
	62	5310	11.57	11.57	11.40	11.36	11.24	11.07	10.93	10.92
	102	5510	11.62	11.50	11.38	11.24	11.08	10.93	10.91	10.72
	110	5550	11.60	11.57	11.41	11.35	11.21	11.08	11.03	11.01
	118	5590	11.58	11.58	11.45	11.33	11.16	11.02	11.00	10.95
	126	5630	11.42	11.41	11.29	11.23	11.04	10.86	10.81	10.79
	134	5670	11.39	11.36	11.18	11.18	10.99	10.90	10.74	10.64
	151	5755	10.71	10.69	10.58	10.49	10.46	10.28	10.09	10.08
	159	5795	10.15	10.06	9.96	9.94	9.88	9.87	9.85	9.66
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	10.64	10.62	10.49	10.42	10.40	10.27	10.24	10.08
	58	5290	11.05	10.88	10.75	10.74	10.73	10.62	10.45	10.33
	106	5530	10.92	10.84	10.68	10.51	10.36	10.34	10.16	10.03
	122	5610	10.93	10.92	10.79	10.70	10.52	10.48	10.40	10.24
	138	5690	10.86	10.66	10.63	10.51	10.50	10.49	10.35	10.26
	155	5775	9.87	9.80	9.77	9.61	9.42	9.32	9.21	9.04

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 0mm 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. 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.
4. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
 - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
 - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
6. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.

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

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13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.1					
Product: Body Worn Camera									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	9400	1880	-0.17	0.224	23.30	22.72	0.256	1.6
Body front	RMC 12.2kbps	9400	1880	-0.41	0.424	23.30	22.72	0.485	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	0.36	0.039	23.30	22.72	0.045	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.35	0.093	23.30	22.72	0.106	1.6
Edge 3(Bottom)	RMC 12.2kbps	9262	1852.4	-0.36	0.800	23.30	22.52	0.957	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.10	0.842	23.30	22.72	0.962	1.6
Edge 3(Bottom)	RMC 12.2kbps	9538	1907.6	-0.03	0.816	23.30	23.28	0.820	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.61	0.221	23.30	22.72	0.253	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 0mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.2					
Product: Body Worn Camera									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	8662	1732.4	-0.04	0.193	22.10	22.05	0.195	1.6
Body front	RMC 12.2kbps	8662	1732.4	0.02	0.456	22.10	22.05	0.461	1.6
Edge 1 (Top)	RMC 12.2kbps	8662	1732.4	-0.09	0.069	22.10	22.05	0.070	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	-0.91	0.140	22.10	22.05	0.142	1.6
Edge 3(Bottom)	RMC 12.2kbps	8562	1712.4	0.27	1.051	22.10	21.82	1.121	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.4	-0.19	1.018	22.10	22.05	1.030	1.6
Edge 3(Bottom)	RMC 12.2kbps	8763	1752.6	-0.16	1.080	22.10	21.90	1.131	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.4	0.10	0.295	22.10	22.05	0.298	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 0mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.2					
Product: Body Worn Camera									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	4183	836.4	-0.05	0.325	22.30	22.09	0.341	1.6
Body front	RMC 12.2kbps	4183	836.4	0.41	0.450	22.30	22.09	0.472	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.4	-0.87	0.018	22.30	22.09	0.019	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.04	0.059	22.30	22.09	0.062	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	-0.24	0.672	22.30	22.09	0.705	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.09	0.589	22.30	22.09	0.618	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 53.1						
Product: Body Worn Camera												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	18900	1880	-0.39	0.333	25.40	24.93	0.371	1.6
		Body front	1	0	18900	1880	0.81	0.600	25.40	24.93	0.669	1.6
		Edge 1 (Top)	1	0	18900	1880	-0.22	0.056	25.40	24.93	0.062	1.6
		Edge 2(Right)	1	0	18900	1880	0.01	0.163	25.40	24.93	0.182	1.6
		Edge 3(Bottom)	1	0	18700	1860	-0.83	0.956	25.40	24.85	1.085	1.6
		Edge 3(Bottom)	1	0	18900	1880	-0.03	1.077	25.40	24.93	1.200	1.6
		Edge 3(Bottom)	1	0	19100	1900	0.05	1.119	25.40	25.17	1.180	1.6
		Edge 4(Left)	1	0	18900	1880	0.01	0.190	25.40	24.93	0.212	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 56.2							
Product: Body Worn Camera												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	20175	1732.5	-0.16	0.254	24.00	23.63	0.277	1.6
		Body front	1	0	20175	1732.5	-0.38	0.328	24.00	23.63	0.357	1.6
		Edge 1 (Top)	1	0	20175	1732.5	0.14	0.036	24.00	23.63	0.039	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.18	0.103	24.00	23.63	0.112	1.6
		Edge 3(Bottom)	1	0	20050	1720	-0.22	0.781	24.00	23.85	0.808	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	0.27	0.758	24.00	23.63	0.825	1.6
		Edge 3(Bottom)	1	0	20300	1745	-0.01	0.839	24.00	23.60	0.920	1.6
		Edge 4(Left)	1	0	20175	1732.5	0.19	0.105	24.00	23.63	0.114	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 56.2						
Product: Body Worn Camera												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Alloca tion	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	-0.41	0.330	22.70	22.44	0.350	1.6
		Body front	1	0	20525	836.5	0.60	0.429	22.70	22.44	0.455	1.6
		Edge 1 (Top)	1	0	20525	836.5	-0.35	0.020	22.70	22.44	0.021	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.42	0.052	22.70	22.44	0.055	1.6
		Edge 3(Bottom)	1	0	20525	836.5	-0.34	0.704	22.70	22.44	0.747	1.6
		Edge 4(Left)	1	0	20525	836.5	0.24	0.604	22.70	22.44	0.641	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 61.0							
Product: Body Worn Camera												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23095	707.5	-0.05	0.282	23.90	23.65	0.299	1.6
		Body front	1	0	23095	707.5	-0.42	0.611	23.90	23.65	0.647	1.6
		Edge 1 (Top)	1	0	23095	707.5	0.19	0.022	23.90	23.65	0.023	1.6
		Edge 2(Right)	1	0	23095	707.5	-0.13	0.052	23.90	23.65	0.055	1.6
		Edge 3(Bottom)	1	0	23095	707.5	-0.14	0.677	23.90	23.65	0.717	1.6
		Edge 4(Left)	1	0	23095	707.5	0.32	0.616	23.90	23.65	0.653	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 61.0							
Product: Body Worn Camera												
Test Mode: LTE Band 13												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23230	782	-0.41	0.223	23.80	23.10	0.262	1.6
		Body front	1	0	23230	782	-0.63	0.325	23.80	23.10	0.382	1.6
		Edge 1 (Top)	1	0	23230	782	-0.22	0.014	23.80	23.10	0.016	1.6
		Edge 2(Right)	1	0	23230	782	-0.74	0.047	23.80	23.10	0.055	1.6
		Edge 3(Bottom)	1	0	23230	782	-0.07	0.535	23.80	23.10	0.629	1.6
		Edge 4(Left)	1	0	23230	782	0.23	0.257	23.80	23.10	0.302	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 61.0							
Product: Body Worn Camera												
Test Mode: LTE Band 14												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23330	793	-0.17	0.177	23.80	23.32	0.198	1.6
		Body front	1	0	23330	793	-0.74	0.207	23.80	23.32	0.231	1.6
		Edge 1 (Top)	1	0	23330	793	-0.30	0.052	23.80	23.32	0.058	1.6
		Edge 2(Right)	1	0	23330	793	0.67	0.013	23.80	23.32	0.015	1.6
		Edge 3(Bottom)	1	0	23330	793	-0.26	0.421	23.80	23.32	0.470	1.6
		Edge 4(Left)	1	0	23330	793	0.62	0.458	23.80	23.32	0.512	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 0mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 56.2							
Product: LTE smartphone												
Test Mode: LTE Band 66												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	132422	1755	-0.41	0.114	22.00	21.46	0.129	1.6
		Body front	1	0	132422	1755	0.29	0.183	22.00	21.46	0.207	1.6
		Edge 1 (Top)	1	0	132422	1755	0.64	0.022	22.00	21.46	0.025	1.6
		Edge 2(Right)	1	0	132422	1755	-0.00	0.080	22.00	21.46	0.091	1.6
		Edge 3(Bottom)	1	0	132422	1755	-0.49	0.482	22.00	21.46	0.546	1.6
		Edge 4(Left)	1	0	132422	1755	0.15	0.074	22.00	21.46	0.084	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 0mm of all above table

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 61.0							
Product: LTE smartphone												
Test Mode: LTE Band 71												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	133322	683	-0.04	0.187	20.10	19.94	0.194	1.6
		Body front	1	0	133322	683	-0.32	0.367	20.10	19.94	0.381	1.6
		Edge 1 (Top)	1	0	133322	683	-0.12	0.027	20.10	19.94	0.028	1.6
		Edge 2(Right)	1	0	133322	683	0.14	0.035	20.10	19.94	0.036	1.6
		Edge 3(Bottom)	1	0	133222	673	-0.21	0.417	20.10	19.94	0.433	1.6
		Edge 4(Left)	1	0	133322	683	0.12	0.412	20.10	19.94	0.427	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 0mm of all above table

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 60.8					
Product: Body Worn Camera									
Test Mode: 2.4GHz WIFI-802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	DTS	6	2437	-0.32	0.246	14.00	13.72	0.262	1.6
Body front	DTS	6	2437	-0.09	0.602	14.00	13.72	0.642	1.6
Edge 1 (Top)	DTS	6	2437	0.31	0.225	14.00	13.72	0.240	1.6
Edge 2(Right)	DTS	6	2437	-0.17	0.105	14.00	13.72	0.112	1.6
Edge 3(Bottom)	DTS	6	2437	-0.23	0.031	14.00	13.72	0.033	1.6
Edge 4(Left)	DTS	6	2437	0.10	0.568	14.00	13.72	0.606	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 0mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8				
Product: Body Worn Camera								
Test Mode: 5.2GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	40	5200	-0.19	0.144	13.00	12.67	0.155	1.6
Body front	40	5200	-0.22	0.220	13.00	12.67	0.237	1.6
Edge 1 (Top)	40	5200	0.16	0.240	13.00	12.67	0.259	1.6
Edge 2(Right)	40	5200	-0.10	0.095	13.00	12.67	0.102	1.6
Edge 3(Bottom)	40	5200	-0.09	0.072	13.00	12.67	0.078	1.6
Edge 4(Left)	40	5200	0.15	0.434	13.00	12.67	0.468	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 0mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.3				
Product: Body Worn Camera								
Test Mode: 5.3GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	60	5300	-0.21	0.124	13.00	12.76	0.131	1.6
Body front	60	5300	0.13	0.226	13.00	12.76	0.239	1.6
Edge 1 (Top)	60	5300	-0.18	0.284	13.00	12.76	0.300	1.6
Edge 2 (Right)	60	5300	-0.26	0.084	13.00	12.76	0.089	1.6
Edge 3 (Bottom)	60	5300	-0.21	0.077	13.00	12.76	0.081	1.6
Edge 4 (Left)	60	5300	0.26	0.407	13.00	12.76	0.430	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 0mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 48.9				
Product: Body Worn Camera								
Test Mode: 5.6GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	120	5600	-0.70	0.144	13.30	13.28	0.145	1.6
Body front	120	5600	-0.28	0.263	13.30	13.28	0.264	1.6
Edge 1 (Top)	120	5600	-0.30	0.222	13.30	13.28	0.223	1.6
Edge 2 (Right)	120	5600	0.10	0.117	13.30	13.28	0.118	1.6
Edge 3 (Bottom)	120	5600	-0.12	0.094	13.30	13.28	0.094	1.6
Edge 4 (Left)	120	5600	0.28	0.611	13.30	13.28	0.614	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 0mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 46.6			
Product: Body Worn Camera								
Test Mode: 5.8GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	157	5785	-0.15	0.117	12.10	11.77	0.126	1.6
Body front	157	5785	-0.36	0.313	12.10	11.77	0.338	1.6
Edge 1 (Top)	157	5785	0.10	0.264	12.10	11.77	0.285	1.6
Edge 2 (Right)	157	5785	-0.15	0.097	12.10	11.77	0.105	1.6
Edge 3 (Bottom)	157	5785	-0.20	0.092	12.10	11.77	0.099	1.6
Edge 4 (Left)	157	5785	0.15	0.631	12.10	11.77	0.681	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 0mm of all above table.

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Repeated SAR											
Product: Body Worn Camera											
Test Mode: WCDMA Band II & WCDMA Band IV & LTE Band 2 & LTE Band 4											
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Edge 3(Bottom)	RMC 12.2kbps		9400	1880	-0.11	0.802	--	--	--	--	1.6
Edge 3(Bottom)	RMC 12.2kbps		8763	1752.6	-0.13	1.012	--	--	--	--	1.6
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
	UL RB Allocation	UL RB START									
Edge 3(Bottom)	1	0	19100	1900	-0.12	1.111	--	--	--	--	1.6
Edge 3(Bottom)	1	0	20300	1745	0.16	0.859	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: Body Worn Camera									
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
WCDMA Band II	Edge 3(Bottom)	RMC 12.2kbps		9400	1880	0.842	0.802	1.050	<1.2
WCDMA Band IV	Edge 3(Bottom)	RMC 12.2kbps		8763	1752.6	1.080	1.012	1.067	<1.2
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 2	Edge 3(Bottom)	1	0	19100	1900	1.119	1.111	1.007	<1.2
LTE Band 4	Edge 3(Bottom)	1	0	20300	1745	0.839	0.859	1.024	<1.2

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

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

NOTE:

1. WLAN and BT with different antenna., and can 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 body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$$
for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Body	8	6.310	0	0.261

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.256	0.262	0.261	0.779	No
	Front	0.485	0.642	0.261	1.388	No
	Edge 1	0.045	0.240	0.261	0.546	No
	Edge 2	0.106	0.112	0.261	0.479	No
	Edge 3	0.962	0.033	0.261	1.256	No
	Edge 4	0.253	0.606	0.261	1.120	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.155	0.261	0.672	No
	Front	0.485	0.237	0.261	0.983	No
	Edge 1	0.045	0.259	0.261	0.565	No
	Edge 2	0.106	0.102	0.261	0.469	No
	Edge 3	0.962	0.078	0.261	1.301	No
	Edge 4	0.253	0.468	0.261	0.982	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.131	0.261	0.648	No
	Front	0.485	0.239	0.261	0.985	No
	Edge 1	0.045	0.300	0.261	0.606	No
	Edge 2	0.106	0.089	0.261	0.456	No
	Edge 3	0.962	0.081	0.261	1.304	No
	Edge 4	0.253	0.430	0.261	0.944	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.145	0.261	0.662	No
	Front	0.485	0.264	0.261	1.010	No
	Edge 1	0.045	0.223	0.261	0.529	No
	Edge 2	0.106	0.118	0.261	0.485	No
	Edge 3	0.962	0.094	0.261	1.317	No
	Edge 4	0.253	0.614	0.261	1.128	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.126	0.261	0.643	No
	Front	0.485	0.338	0.261	1.084	No
	Edge 1	0.045	0.285	0.261	0.591	No
	Edge 2	0.106	0.105	0.261	0.472	No
	Edge 3	0.962	0.099	0.261	1.322	No
	Edge 4	0.253	0.681	0.261	1.195	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			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.195	0.262	0.261	0.718	No
	Front	0.461	0.642	0.261	1.364	No
	Edge 1	0.070	0.240	0.261	0.571	No
	Edge 2	0.142	0.112	0.261	0.515	No
	Edge 3	1.131	0.033	0.261	1.425	No
	Edge 4	0.298	0.606	0.261	1.165	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.195	0.155	0.261	0.350	No
	Front	0.461	0.237	0.261	0.698	No
	Edge 1	0.070	0.259	0.261	0.329	No
	Edge 2	0.142	0.102	0.261	0.244	No
	Edge 3	1.131	0.078	0.261	1.209	No
	Edge 4	0.298	0.468	0.261	0.766	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.195	0.131	0.261	0.326	No
	Front	0.461	0.239	0.261	0.700	No
	Edge 1	0.070	0.300	0.261	0.370	No
	Edge 2	0.142	0.089	0.261	0.231	No
	Edge 3	1.131	0.081	0.261	1.212	No
	Edge 4	0.298	0.430	0.261	0.728	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.195	0.145	0.261	0.340	No
	Front	0.461	0.264	0.261	0.725	No
	Edge 1	0.070	0.223	0.261	0.293	No
	Edge 2	0.142	0.118	0.261	0.260	No
	Edge 3	1.131	0.094	0.261	1.225	No
	Edge 4	0.298	0.614	0.261	0.912	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.195	0.126	0.261	0.582	No
	Front	0.461	0.338	0.261	1.060	No
	Edge 1	0.070	0.285	0.261	0.616	No
	Edge 2	0.142	0.105	0.261	0.508	No
	Edge 3	1.131	0.099	0.261	1.491	No
	Edge 4	0.298	0.681	0.261	1.240	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			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.341	0.262	0.261	0.864	No
	Front	0.472	0.642	0.261	1.375	No
	Edge 1	0.019	0.240	0.261	0.520	No
	Edge 2	0.062	0.112	0.261	0.435	No
	Edge 3	0.705	0.033	0.261	0.999	No
	Edge 4	0.618	0.606	0.261	1.485	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.341	0.155	0.261	0.757	No
	Front	0.472	0.237	0.261	0.970	No
	Edge 1	0.019	0.259	0.261	0.539	No
	Edge 2	0.062	0.102	0.261	0.425	No
	Edge 3	0.705	0.078	0.261	1.044	No
	Edge 4	0.618	0.468	0.261	1.347	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.341	0.131	0.261	0.733	No
	Front	0.472	0.239	0.261	0.972	No
	Edge 1	0.019	0.300	0.261	0.580	No
	Edge 2	0.062	0.089	0.261	0.412	No
	Edge 3	0.705	0.081	0.261	1.047	No
	Edge 4	0.618	0.430	0.261	1.309	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.341	0.145	0.261	0.747	No
	Front	0.472	0.264	0.261	0.997	No
	Edge 1	0.019	0.223	0.261	0.503	No
	Edge 2	0.062	0.118	0.261	0.441	No
	Edge 3	0.705	0.094	0.261	1.060	No
	Edge 4	0.618	0.614	0.261	1.493	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.341	0.126	0.261	0.728	No
	Front	0.472	0.338	0.261	1.071	No
	Edge 1	0.019	0.285	0.261	0.565	No
	Edge 2	0.062	0.105	0.261	0.428	No
	Edge 3	0.705	0.099	0.261	1.065	No
	Edge 4	0.618	0.681	0.261	1.560	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			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.371	0.262	0.261	0.894	No
	Front	0.669	0.642	0.261	1.572	No
	Edge 1	0.062	0.240	0.261	0.563	No
	Edge 2	0.182	0.112	0.261	0.555	No
	Edge 3	1.200	0.033	0.261	1.494	No
	Edge 4	0.212	0.606	0.261	1.079	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.155	0.261	0.672	No
	Front	0.485	0.237	0.261	0.983	No
	Edge 1	0.045	0.259	0.261	0.565	No
	Edge 2	0.106	0.102	0.261	0.469	No
	Edge 3	0.962	0.078	0.261	1.301	No
	Edge 4	0.253	0.468	0.261	0.982	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.131	0.261	0.648	No
	Front	0.485	0.239	0.261	0.985	No
	Edge 1	0.045	0.300	0.261	0.606	No
	Edge 2	0.106	0.089	0.261	0.456	No
	Edge 3	0.962	0.081	0.261	1.304	No
	Edge 4	0.253	0.430	0.261	0.944	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.145	0.261	0.662	No
	Front	0.485	0.264	0.261	1.010	No
	Edge 1	0.045	0.223	0.261	0.529	No
	Edge 2	0.106	0.118	0.261	0.485	No
	Edge 3	0.962	0.094	0.261	1.317	No
	Edge 4	0.253	0.614	0.261	1.128	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.256	0.126	0.261	0.643	No
	Front	0.485	0.338	0.261	1.084	No
	Edge 1	0.045	0.285	0.261	0.591	No
	Edge 2	0.106	0.105	0.261	0.472	No
	Edge 3	0.962	0.099	0.261	1.322	No
	Edge 4	0.253	0.681	0.261	1.195	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			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.277	0.262	0.261	0.800	No
	Front	0.357	0.642	0.261	1.260	No
	Edge 1	0.039	0.240	0.261	0.540	No
	Edge 2	0.112	0.112	0.261	0.485	No
	Edge 3	0.920	0.033	0.261	1.214	No
	Edge 4	0.114	0.606	0.261	0.981	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.277	0.155	0.261	0.693	No
	Front	0.357	0.237	0.261	0.855	No
	Edge 1	0.039	0.259	0.261	0.559	No
	Edge 2	0.112	0.102	0.261	0.475	No
	Edge 3	0.920	0.078	0.261	1.259	No
	Edge 4	0.114	0.468	0.261	0.843	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.277	0.131	0.261	0.669	No
	Front	0.357	0.239	0.261	0.857	No
	Edge 1	0.039	0.300	0.261	0.600	No
	Edge 2	0.112	0.089	0.261	0.462	No
	Edge 3	0.920	0.081	0.261	1.262	No
	Edge 4	0.114	0.430	0.261	0.805	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.277	0.145	0.261	0.683	No
	Front	0.357	0.264	0.261	0.882	No
	Edge 1	0.039	0.223	0.261	0.523	No
	Edge 2	0.112	0.118	0.261	0.491	No
	Edge 3	0.920	0.094	0.261	1.275	No
	Edge 4	0.114	0.614	0.261	0.989	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.277	0.126	0.261	0.664	No
	Front	0.357	0.338	0.261	0.956	No
	Edge 1	0.039	0.285	0.261	0.585	No
	Edge 2	0.112	0.105	0.261	0.478	No
	Edge 3	0.920	0.099	0.261	1.280	No
	Edge 4	0.114	0.681	0.261	1.056	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			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.350	0.262	0.261	0.873	No
	Front	0.455	0.642	0.261	1.358	No
	Edge 1	0.021	0.240	0.261	0.522	No
	Edge 2	0.055	0.112	0.261	0.428	No
	Edge 3	0.747	0.033	0.261	1.041	No
	Edge 4	0.641	0.606	0.261	1.508	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.350	0.155	0.261	0.766	No
	Front	0.455	0.237	0.261	0.953	No
	Edge 1	0.021	0.259	0.261	0.541	No
	Edge 2	0.055	0.102	0.261	0.418	No
	Edge 3	0.747	0.078	0.261	1.086	No
	Edge 4	0.641	0.468	0.261	1.370	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.350	0.131	0.261	0.742	No
	Front	0.455	0.239	0.261	0.955	No
	Edge 1	0.021	0.300	0.261	0.582	No
	Edge 2	0.055	0.089	0.261	0.405	No
	Edge 3	0.747	0.081	0.261	1.089	No
	Edge 4	0.641	0.430	0.261	1.332	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.350	0.145	0.261	0.756	No
	Front	0.455	0.264	0.261	0.980	No
	Edge 1	0.021	0.223	0.261	0.505	No
	Edge 2	0.055	0.118	0.261	0.434	No
	Edge 3	0.747	0.094	0.261	1.102	No
	Edge 4	0.641	0.614	0.261	1.516	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.350	0.126	0.261	0.737	No
	Front	0.455	0.338	0.261	1.054	No
	Edge 1	0.021	0.285	0.261	0.567	No
	Edge 2	0.055	0.105	0.261	0.421	No
	Edge 3	0.747	0.099	0.261	1.107	No
	Edge 4	0.641	0.681	0.261	1.583	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 12 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.299	0.262	0.261	0.822	No
	Front	0.647	0.642	0.261	1.550	No
	Edge 1	0.023	0.240	0.261	0.524	No
	Edge 2	0.055	0.112	0.261	0.428	No
	Edge 3	0.717	0.033	0.261	1.011	No
	Edge 4	0.653	0.606	0.261	1.520	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.299	0.155	0.261	0.715	No
	Front	0.647	0.237	0.261	1.145	No
	Edge 1	0.023	0.259	0.261	0.543	No
	Edge 2	0.055	0.102	0.261	0.418	No
	Edge 3	0.717	0.078	0.261	1.056	No
	Edge 4	0.653	0.468	0.261	1.382	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.299	0.131	0.261	0.691	No
	Front	0.647	0.239	0.261	1.147	No
	Edge 1	0.023	0.300	0.261	0.584	No
	Edge 2	0.055	0.089	0.261	0.405	No
	Edge 3	0.717	0.081	0.261	1.059	No
	Edge 4	0.653	0.430	0.261	1.344	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.299	0.145	0.261	0.705	No
	Front	0.647	0.264	0.261	1.172	No
	Edge 1	0.023	0.223	0.261	0.507	No
	Edge 2	0.055	0.118	0.261	0.434	No
	Edge 3	0.717	0.094	0.261	1.072	No
	Edge 4	0.653	0.614	0.261	1.528	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.299	0.126	0.261	0.686	No
	Front	0.647	0.338	0.261	1.246	No
	Edge 1	0.023	0.285	0.261	0.569	No
	Edge 2	0.055	0.105	0.261	0.421	No
	Edge 3	0.717	0.099	0.261	1.077	No
	Edge 4	0.653	0.681	0.261	1.595	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 13 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.262	0.262	0.261	0.785	No
	Front	0.382	0.642	0.261	1.285	No
	Edge 1	0.016	0.240	0.261	0.517	No
	Edge 2	0.055	0.112	0.261	0.428	No
	Edge 3	0.629	0.033	0.261	0.923	No
	Edge 4	0.302	0.606	0.261	1.169	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.262	0.155	0.261	0.678	No
	Front	0.382	0.237	0.261	0.880	No
	Edge 1	0.016	0.259	0.261	0.536	No
	Edge 2	0.055	0.102	0.261	0.418	No
	Edge 3	0.629	0.078	0.261	0.968	No
	Edge 4	0.302	0.468	0.261	1.031	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.262	0.131	0.261	0.654	No
	Front	0.382	0.239	0.261	0.882	No
	Edge 1	0.016	0.300	0.261	0.577	No
	Edge 2	0.055	0.089	0.261	0.405	No
	Edge 3	0.629	0.081	0.261	0.971	No
	Edge 4	0.302	0.430	0.261	0.993	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.262	0.145	0.261	0.668	No
	Front	0.382	0.264	0.261	0.907	No
	Edge 1	0.016	0.223	0.261	0.500	No
	Edge 2	0.055	0.118	0.261	0.434	No
	Edge 3	0.629	0.094	0.261	0.984	No
	Edge 4	0.302	0.614	0.261	1.177	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.262	0.126	0.261	0.649	No
	Front	0.382	0.338	0.261	0.981	No
	Edge 1	0.016	0.285	0.261	0.562	No
	Edge 2	0.055	0.105	0.261	0.421	No
	Edge 3	0.629	0.099	0.261	0.989	No
	Edge 4	0.302	0.681	0.261	1.244	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 14 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.198	0.262	0.261	0.721	No
	Front	0.231	0.642	0.261	1.134	No
	Edge 1	0.058	0.240	0.261	0.559	No
	Edge 2	0.015	0.112	0.261	0.388	No
	Edge 3	0.470	0.033	0.261	0.764	No
	Edge 4	0.512	0.606	0.261	1.379	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.198	0.155	0.261	0.614	No
	Front	0.231	0.237	0.261	0.729	No
	Edge 1	0.058	0.259	0.261	0.578	No
	Edge 2	0.015	0.102	0.261	0.378	No
	Edge 3	0.470	0.078	0.261	0.809	No
	Edge 4	0.512	0.468	0.261	1.241	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.198	0.131	0.261	0.590	No
	Front	0.231	0.239	0.261	0.731	No
	Edge 1	0.058	0.300	0.261	0.619	No
	Edge 2	0.015	0.089	0.261	0.365	No
	Edge 3	0.470	0.081	0.261	0.812	No
	Edge 4	0.512	0.430	0.261	1.203	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.198	0.145	0.261	0.604	No
	Front	0.231	0.264	0.261	0.756	No
	Edge 1	0.058	0.223	0.261	0.542	No
	Edge 2	0.015	0.118	0.261	0.394	No
	Edge 3	0.470	0.094	0.261	0.825	No
	Edge 4	0.512	0.614	0.261	1.387	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.198	0.126	0.261	0.585	No
	Front	0.231	0.338	0.261	0.830	No
	Edge 1	0.058	0.285	0.261	0.604	No
	Edge 2	0.015	0.105	0.261	0.381	No
	Edge 3	0.470	0.099	0.261	0.830	No
	Edge 4	0.512	0.681	0.261	1.454	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 66 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.129	0.262	0.261	0.652	No
	Front	0.207	0.642	0.261	1.110	No
	Edge 1	0.025	0.240	0.261	0.526	No
	Edge 2	0.091	0.112	0.261	0.464	No
	Edge 3	0.546	0.033	0.261	0.840	No
	Edge 4	0.084	0.606	0.261	0.951	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.129	0.155	0.261	0.545	No
	Front	0.207	0.237	0.261	0.705	No
	Edge 1	0.025	0.259	0.261	0.545	No
	Edge 2	0.091	0.102	0.261	0.454	No
	Edge 3	0.546	0.078	0.261	0.885	No
	Edge 4	0.084	0.468	0.261	0.813	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.129	0.131	0.261	0.521	No
	Front	0.207	0.239	0.261	0.707	No
	Edge 1	0.025	0.300	0.261	0.586	No
	Edge 2	0.091	0.089	0.261	0.441	No
	Edge 3	0.546	0.081	0.261	0.888	No
	Edge 4	0.084	0.430	0.261	0.775	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.129	0.145	0.261	0.535	No
	Front	0.207	0.264	0.261	0.732	No
	Edge 1	0.025	0.223	0.261	0.509	No
	Edge 2	0.091	0.118	0.261	0.470	No
	Edge 3	0.546	0.094	0.261	0.901	No
	Edge 4	0.084	0.614	0.261	0.959	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.129	0.126	0.261	0.516	No
	Front	0.207	0.338	0.261	0.806	No
	Edge 1	0.025	0.285	0.261	0.571	No
	Edge 2	0.091	0.105	0.261	0.457	No
	Edge 3	0.546	0.099	0.261	0.906	No
	Edge 4	0.084	0.681	0.261	1.026	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 71 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.194	0.262	0.261	0.717	No
	Front	0.381	0.642	0.261	1.284	No
	Edge 1	0.028	0.240	0.261	0.529	No
	Edge 2	0.036	0.112	0.261	0.409	No
	Edge 3	0.433	0.033	0.261	0.727	No
	Edge 4	0.427	0.606	0.261	1.294	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.194	0.155	0.261	0.610	No
	Front	0.381	0.237	0.261	0.879	No
	Edge 1	0.028	0.259	0.261	0.548	No
	Edge 2	0.036	0.102	0.261	0.399	No
	Edge 3	0.433	0.078	0.261	0.772	No
	Edge 4	0.427	0.468	0.261	1.156	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.194	0.131	0.261	0.586	No
	Front	0.381	0.239	0.261	0.881	No
	Edge 1	0.028	0.300	0.261	0.589	No
	Edge 2	0.036	0.089	0.261	0.386	No
	Edge 3	0.433	0.081	0.261	0.775	No
	Edge 4	0.427	0.430	0.261	1.118	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.194	0.145	0.261	0.600	No
	Front	0.381	0.264	0.261	0.906	No
	Edge 1	0.028	0.223	0.261	0.512	No
	Edge 2	0.036	0.118	0.261	0.415	No
	Edge 3	0.433	0.094	0.261	0.788	No
	Edge 4	0.427	0.614	0.261	1.302	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.194	0.126	0.261	0.581	No
	Front	0.381	0.338	0.261	0.980	No
	Edge 1	0.028	0.285	0.261	0.574	No
	Edge 2	0.036	0.105	0.261	0.402	No
	Edge 3	0.433	0.099	0.261	0.793	No
	Edge 4	0.427	0.681	0.261	1.369	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: Dec. 06, 2023

System Check Head 750 MHz

DUT: Dipole 750 MHz Type: SID 750

Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=1.95

Frequency: 750 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 42.47$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

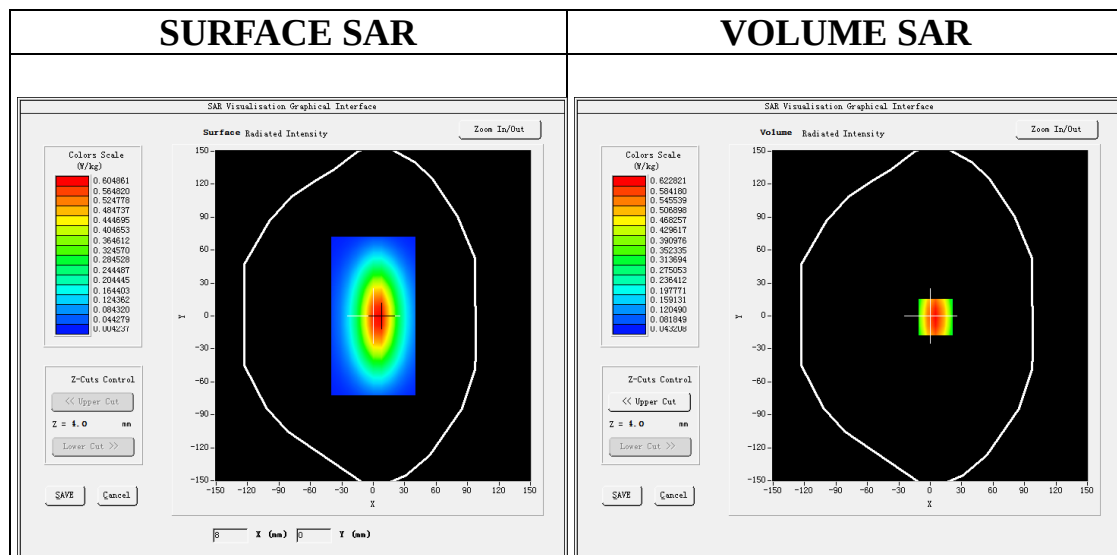
Ambient temperature (°C):21.8, Liquid temperature (°C): 21.3

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_32

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=5.00, Y=-1.00

SAR Peak: 0.88 W/kg

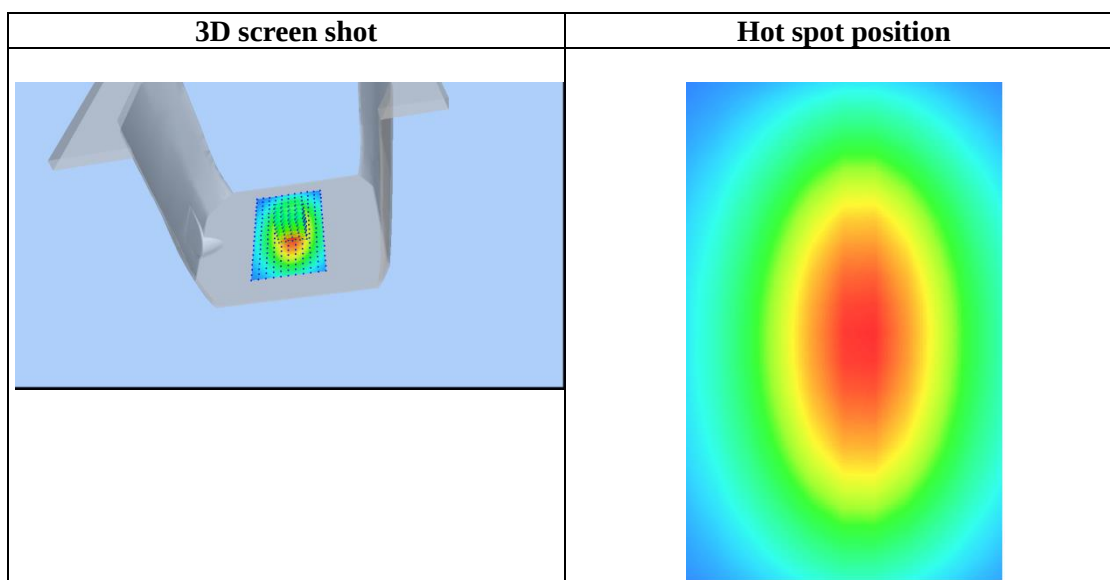
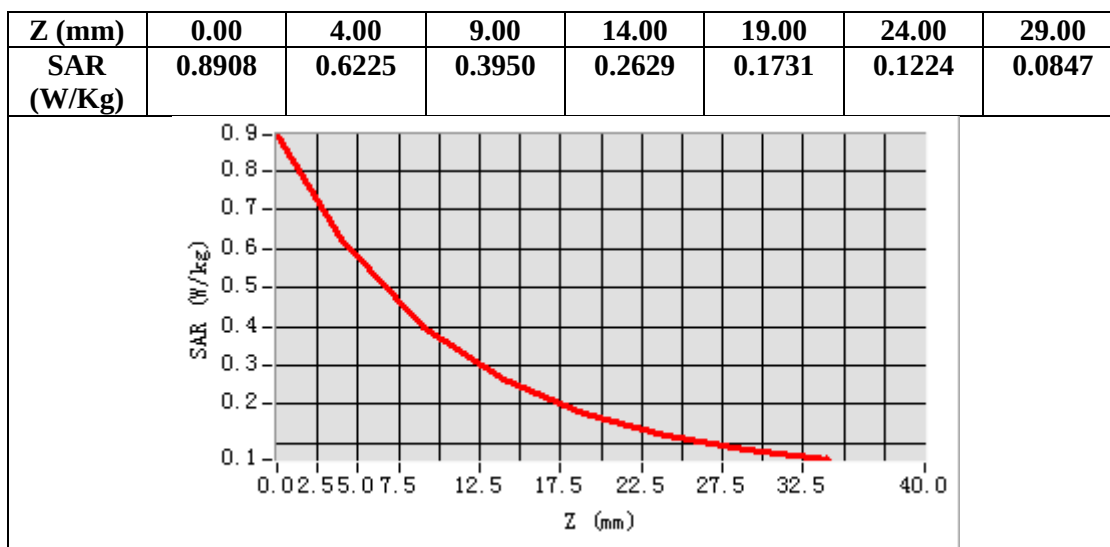
SAR 10g (W/Kg)	0.355107
SAR 1g (W/Kg)	0.566823

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Test Laboratory: AGC Lab
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

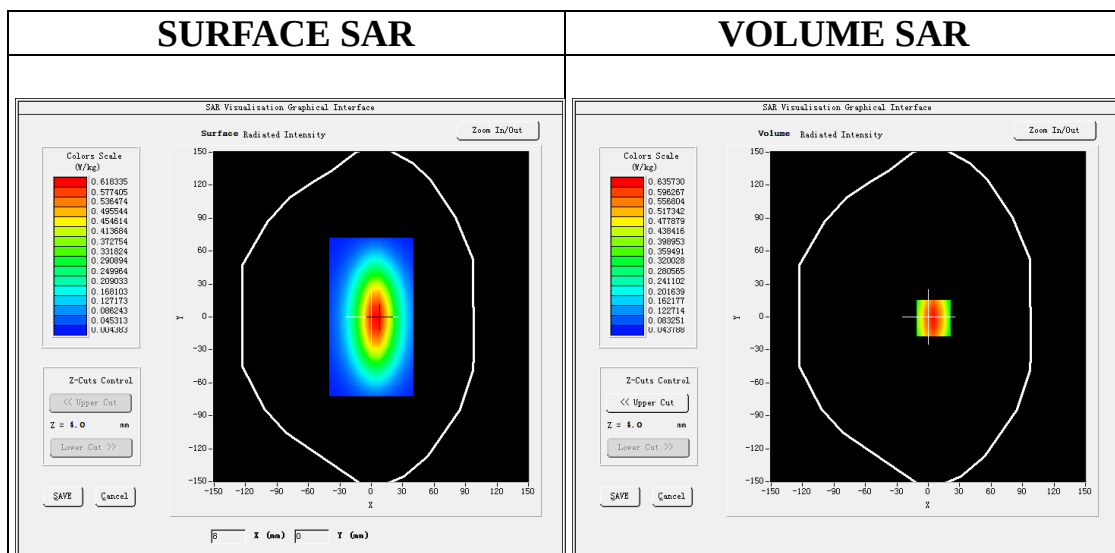
Date: Dec. 10, 2023

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=2.02
Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.53$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):20.5, Liquid temperature (°C): 20.1

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_32

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



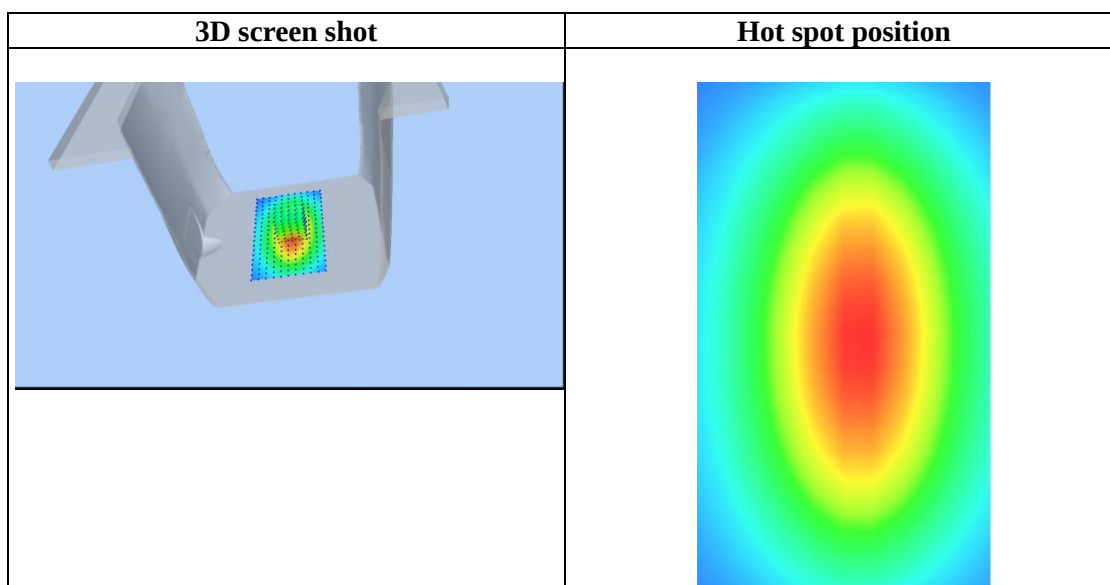
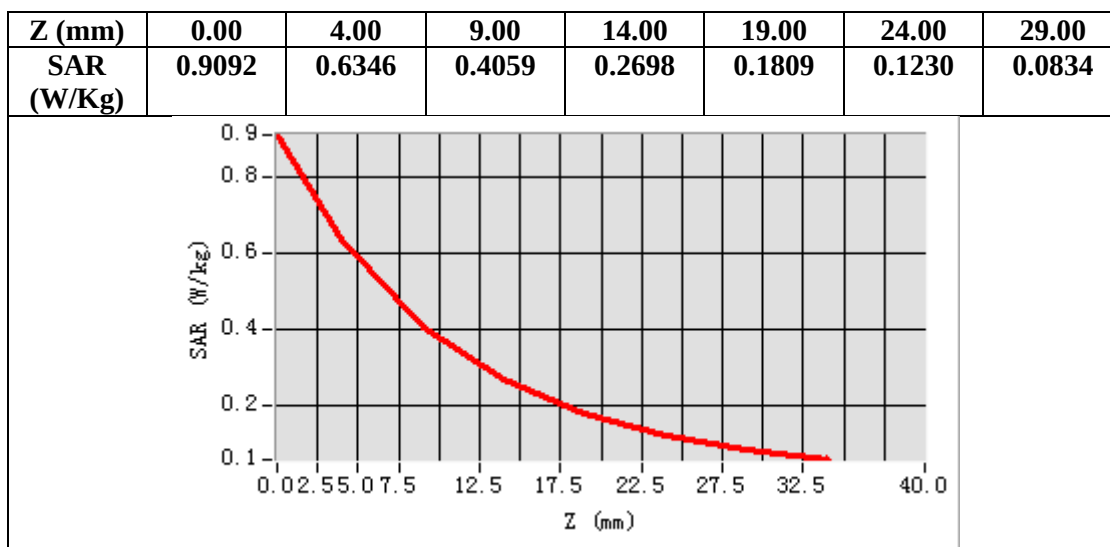
Maximum location: X=5.00, Y=-1.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.383520
SAR 1g (W/Kg)	0.614785

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Test Laboratory: AGC Lab
System Check Head 1750MHz

Date: Dec. 08, 2023

DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.17
Frequency: 1750 MHz; Medium parameters used: $f = 1750\text{MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 39.77$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

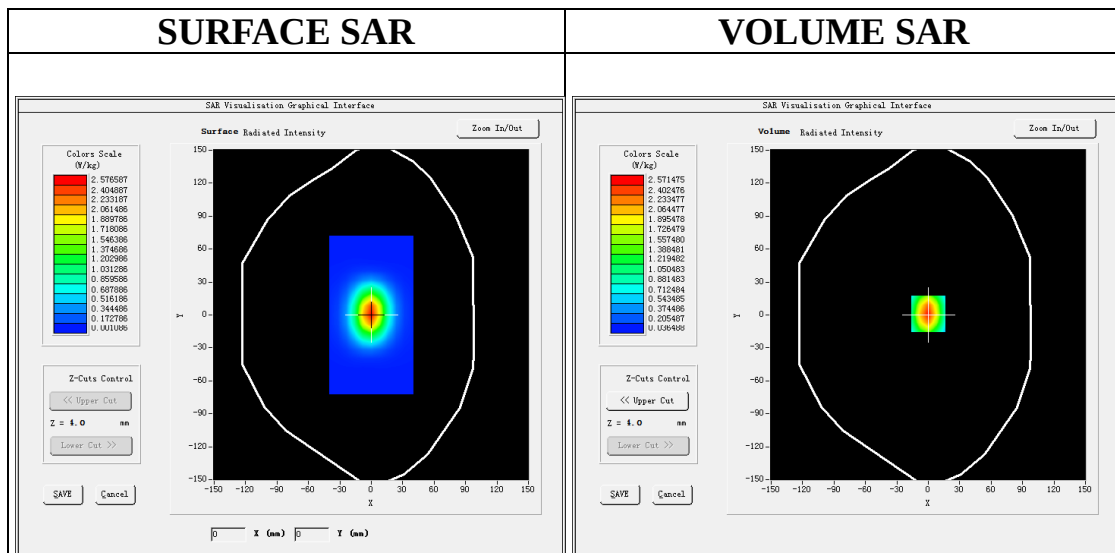
SATIMO Configuration:

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_32

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

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



Maximum location: X=0.00, Y=1.00

SAR Peak: 4.13 W/kg

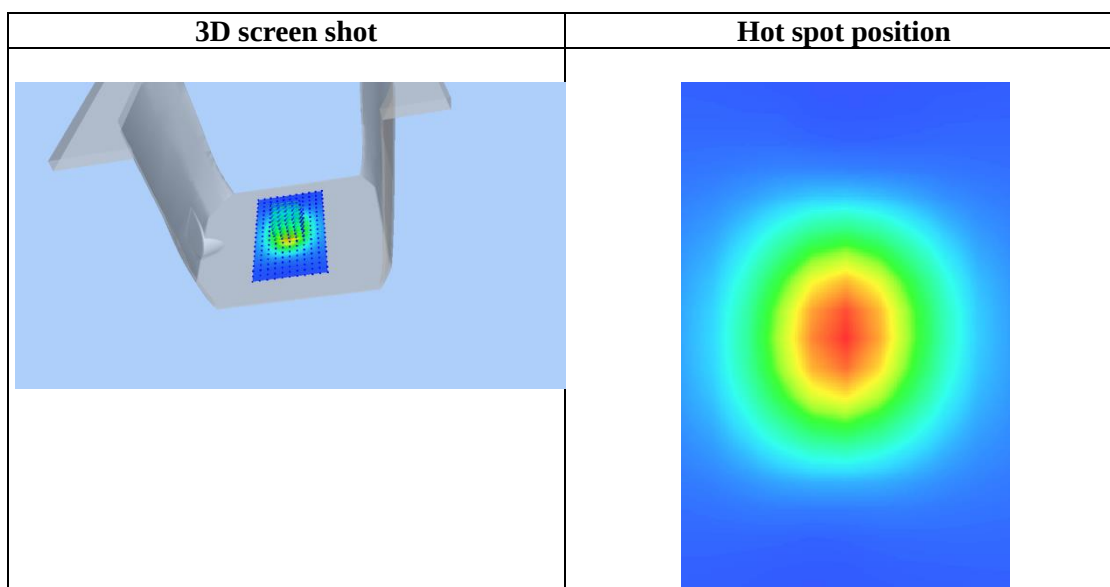
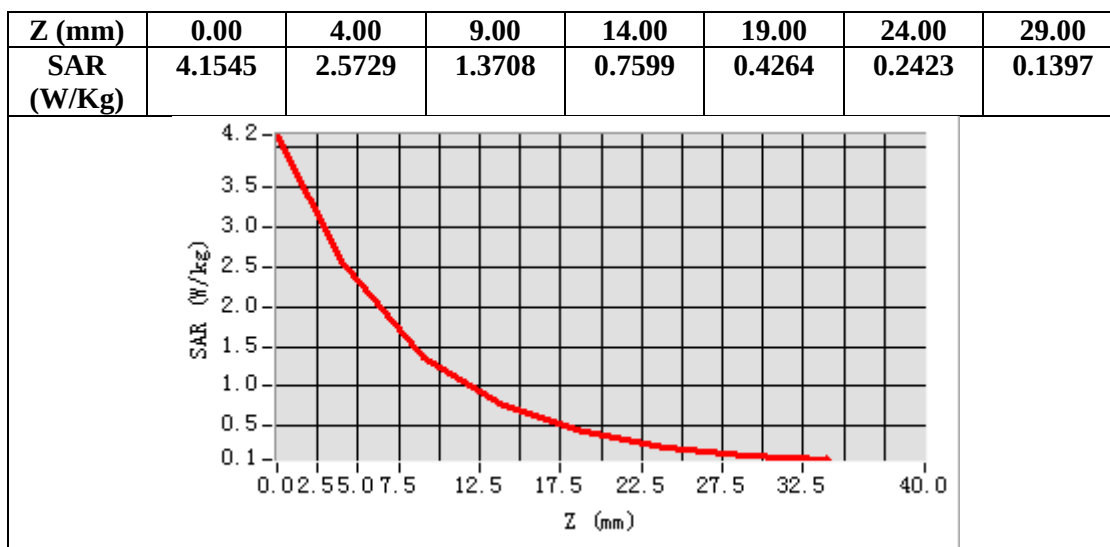
SAR 10g (W/Kg)	1.225938
SAR 1g (W/Kg)	2.418815

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Test Laboratory: AGC Lab
System Check Head 1900MHz

Date: Dec. 12, 2023

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.15
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.44$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

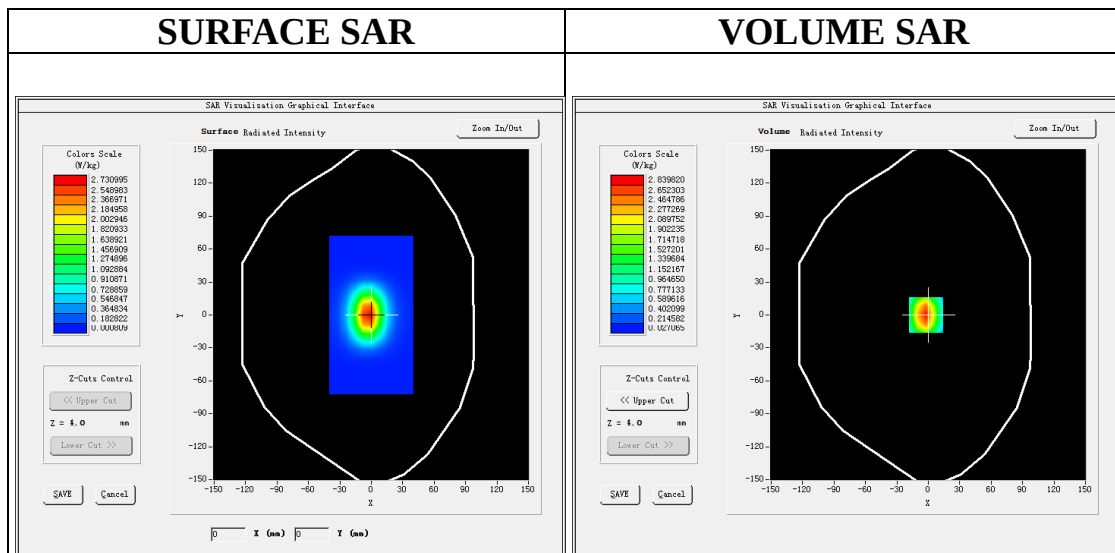
SATIMO Configuration:

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_32

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

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



Maximum location: X=-2.00, Y=0.00

SAR Peak: 4.70 W/kg

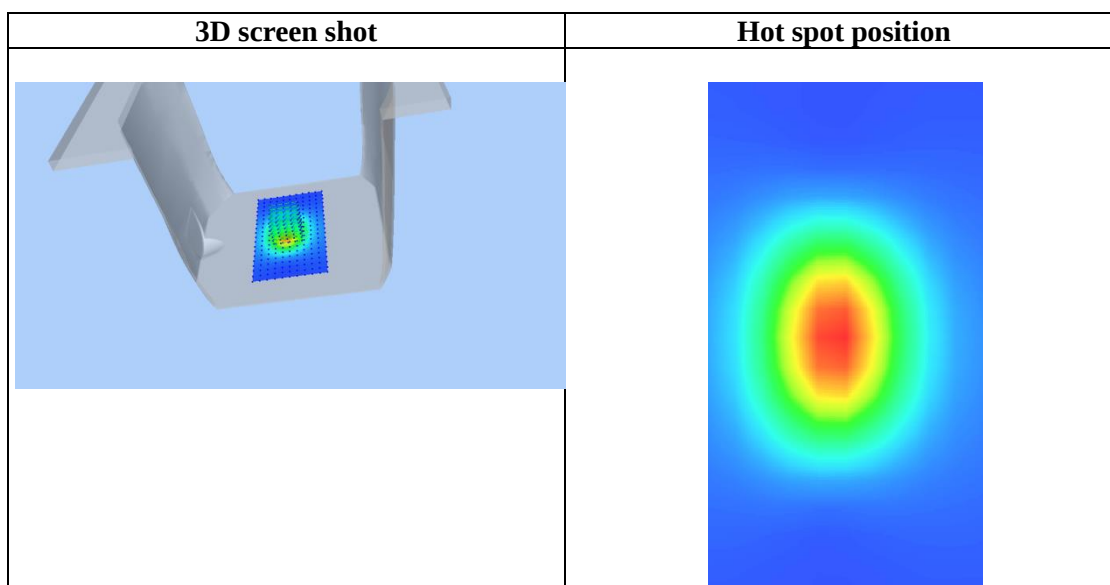
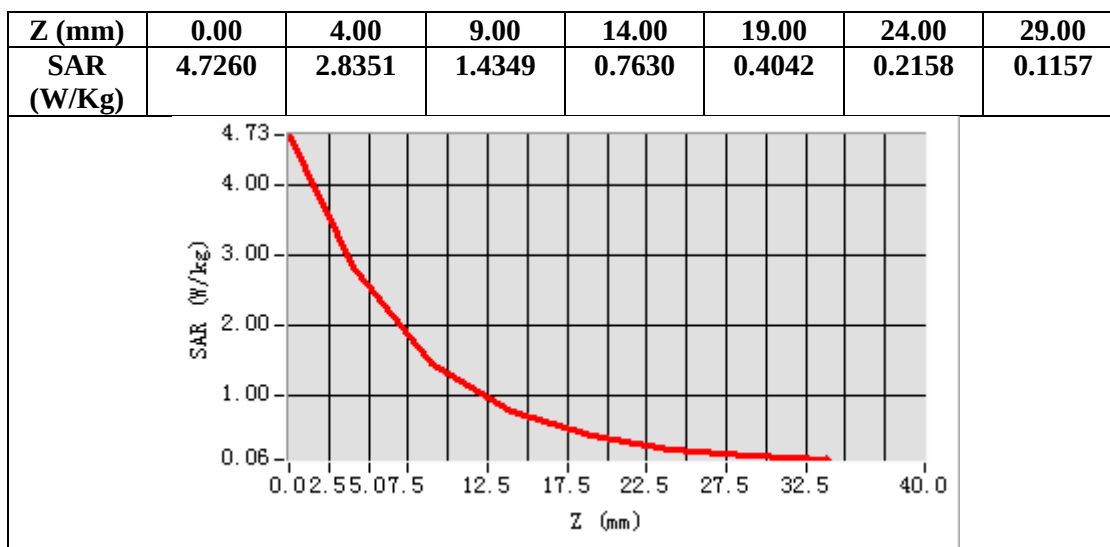
SAR 10g (W/Kg)	1.297504
SAR 1g (W/Kg)	2.670131

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Test Laboratory: AGC Lab
System Check Head 2450 MHz

Date: Dec. 11, 2023

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; $\sigma = 1.84$ mho/m; $\epsilon_r = 40.13$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

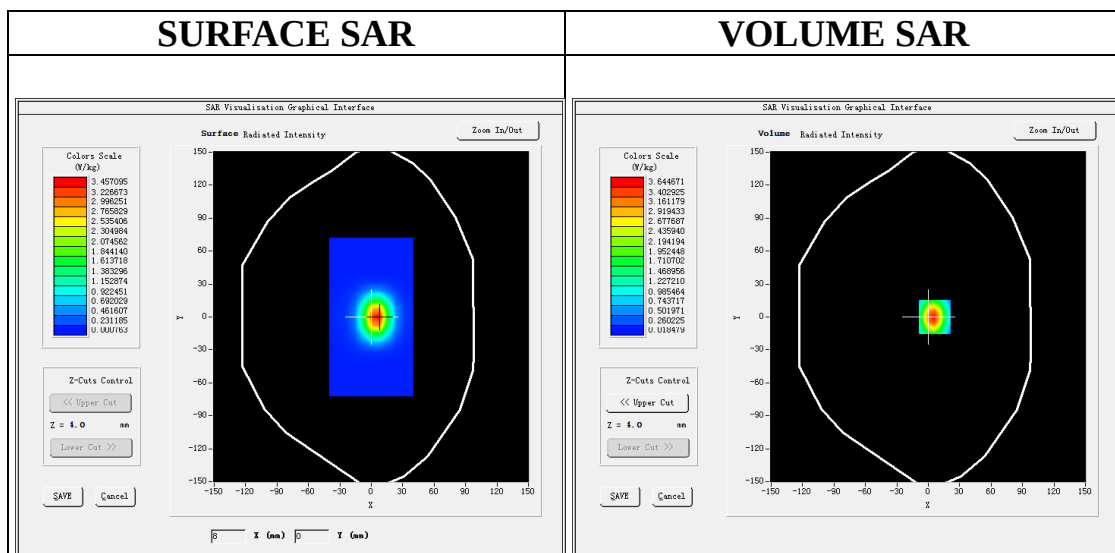
Ambient temperature (°C):21.1, Liquid temperature (°C): 20.7

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_32

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=6.00, Y=0.00

SAR Peak: 6.30 W/kg

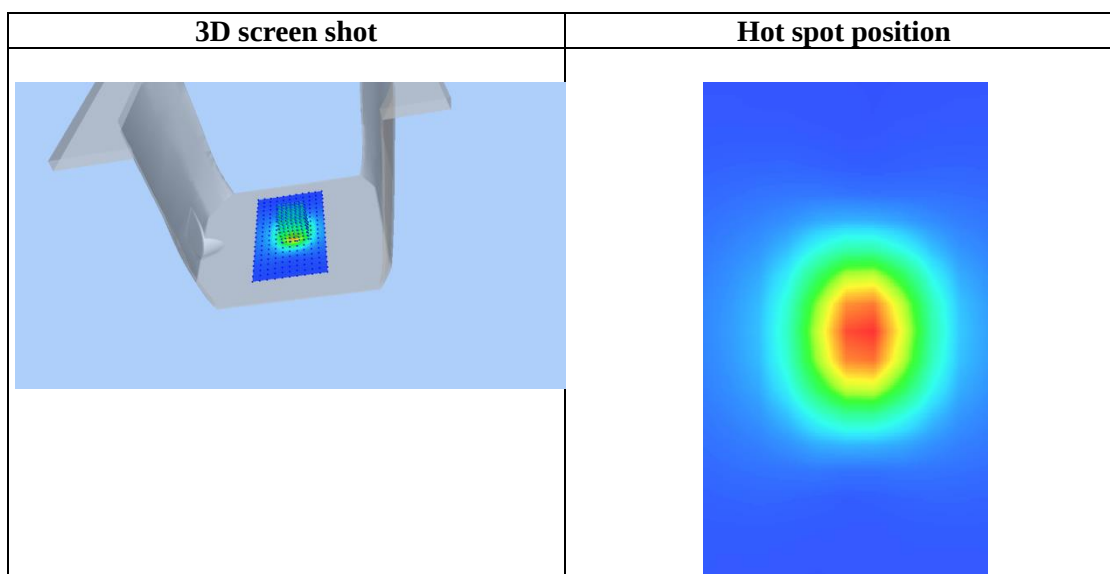
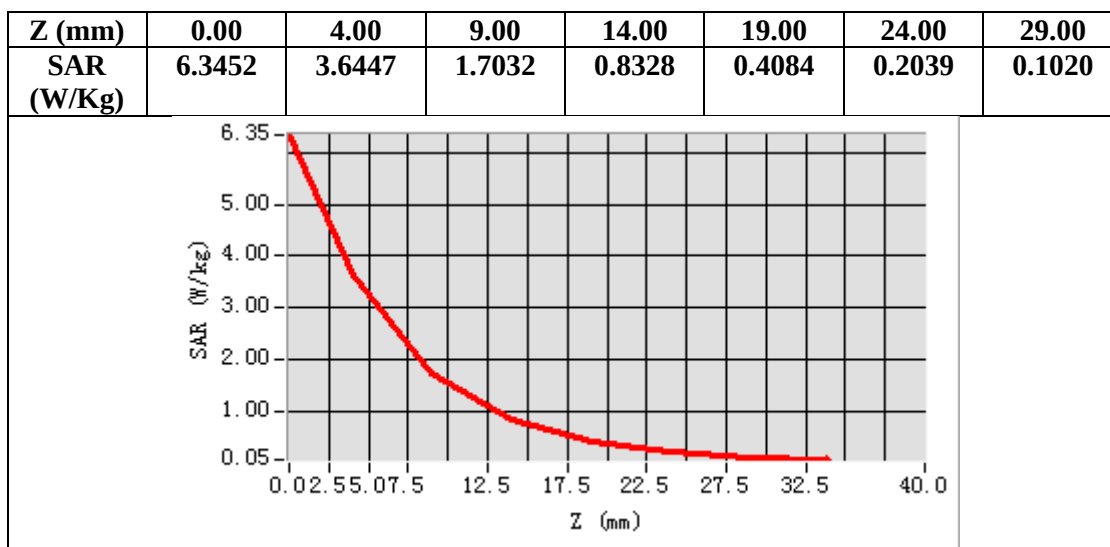
SAR 10g (W/Kg)	1.504142
SAR 1g (W/Kg)	3.340860

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Test Laboratory: AGC Lab

Date: Dec. 13, 2023

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.35

Frequency: 5200 MHz; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.50$ mho/m; $\epsilon_r = 36.21$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

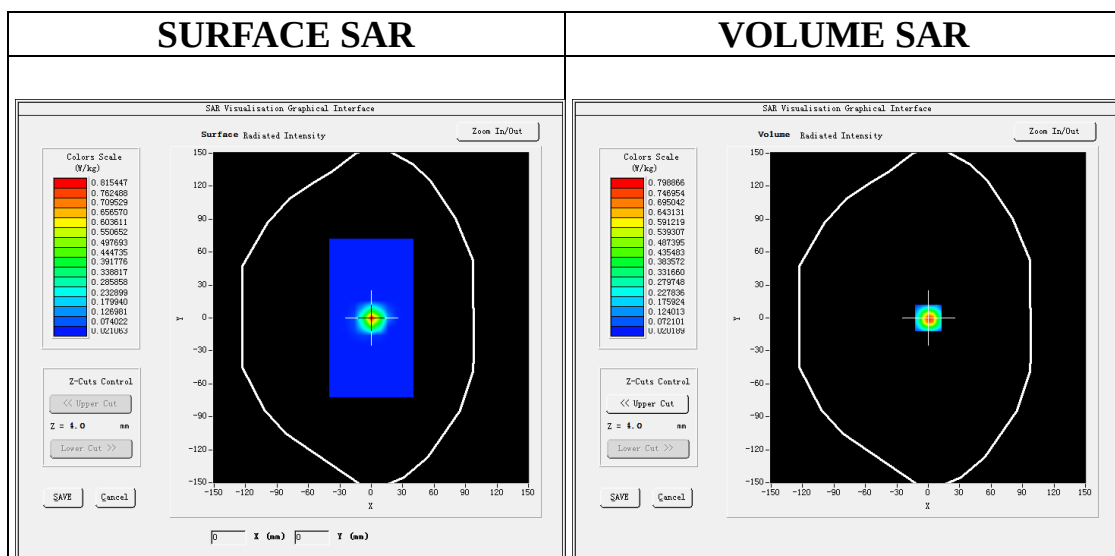
Ambient temperature (°C): 20.1, Liquid temperature (°C): 19.8

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_32

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

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



Maximum location: X=0.00, Y=0.00

SAR Peak: 2.24 W/kg

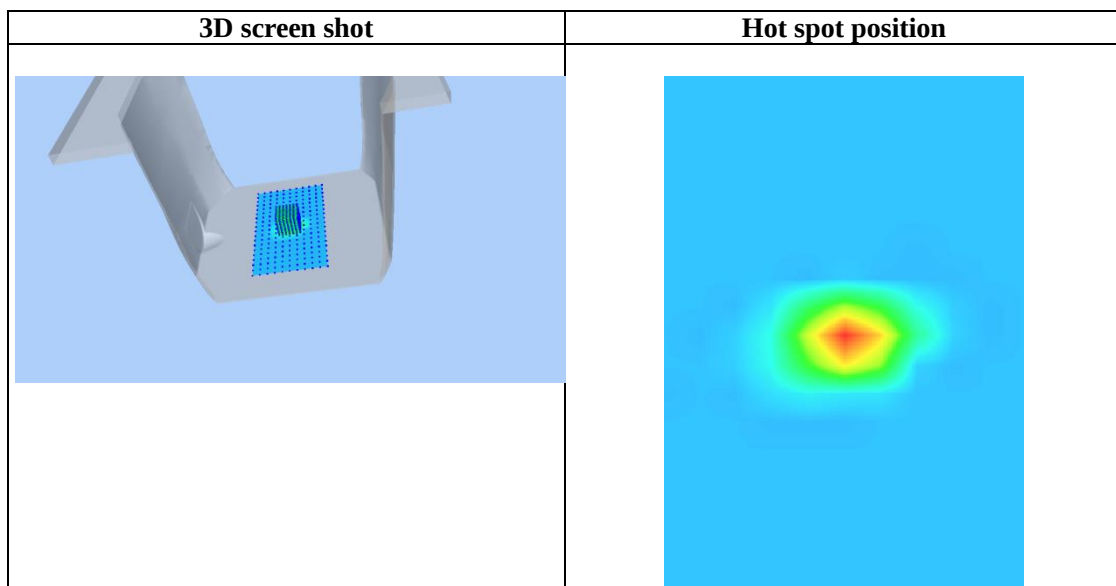
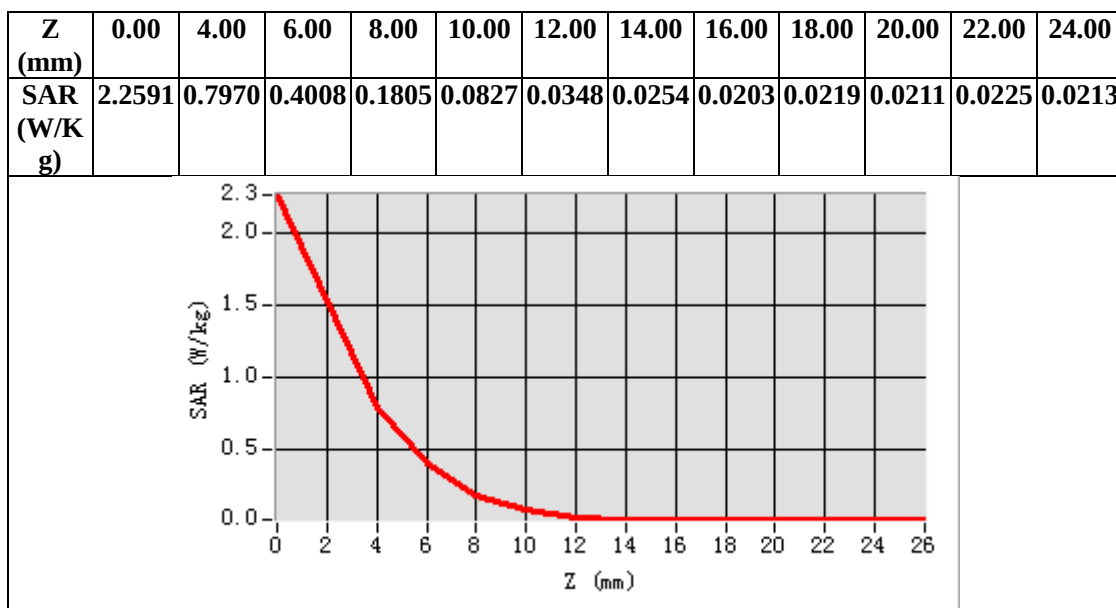
SAR 10g (W/Kg)	0.212014
SAR 1g (W/Kg)	0.742209

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

Date: Dec. 14, 2023

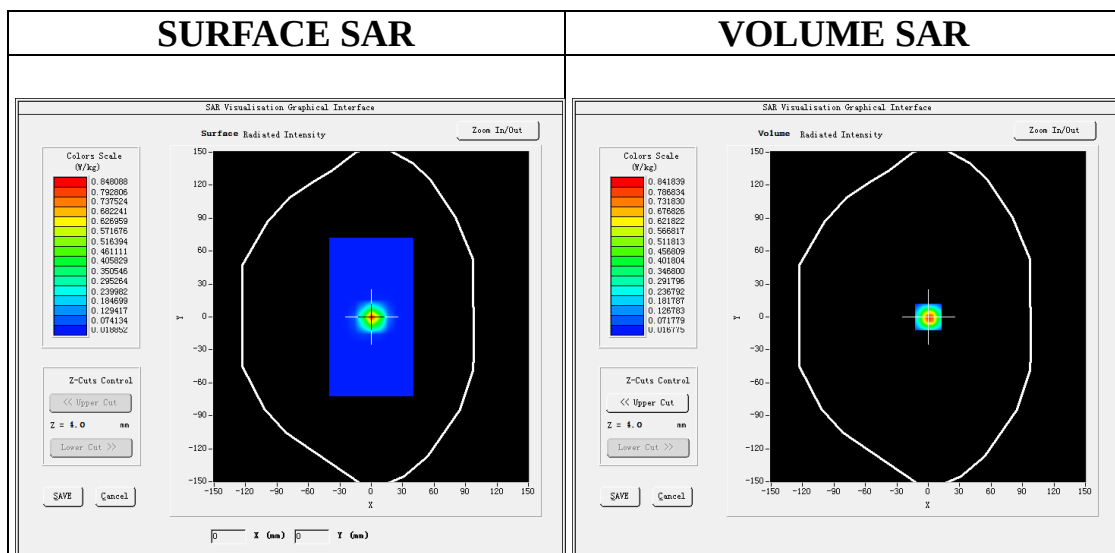
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.35
Frequency: 5300 MHz; Medium parameters used: $f = 5300$ MHz; $\sigma = 4.91$ mho/m; $\epsilon_r = 36.59$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

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_32

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

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



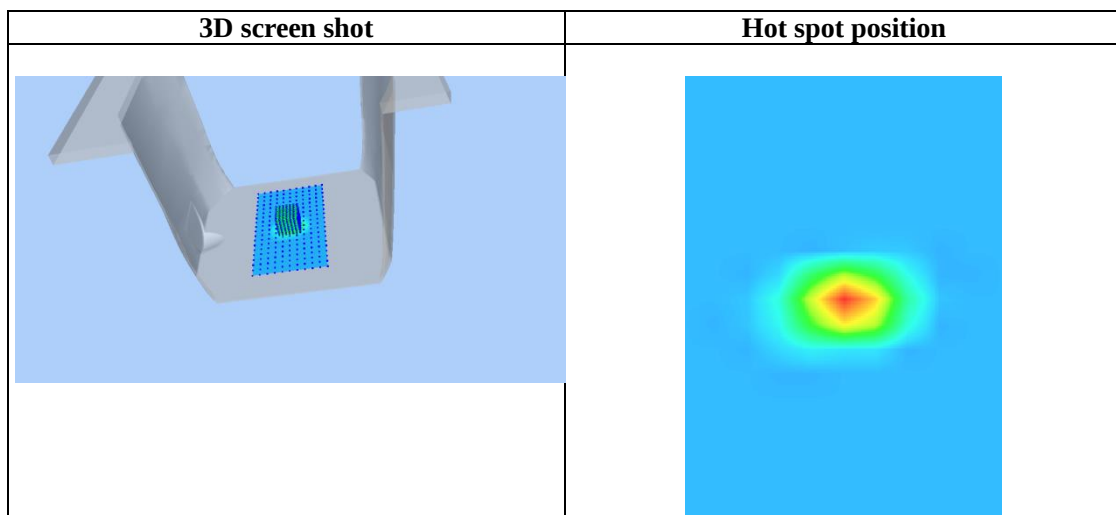
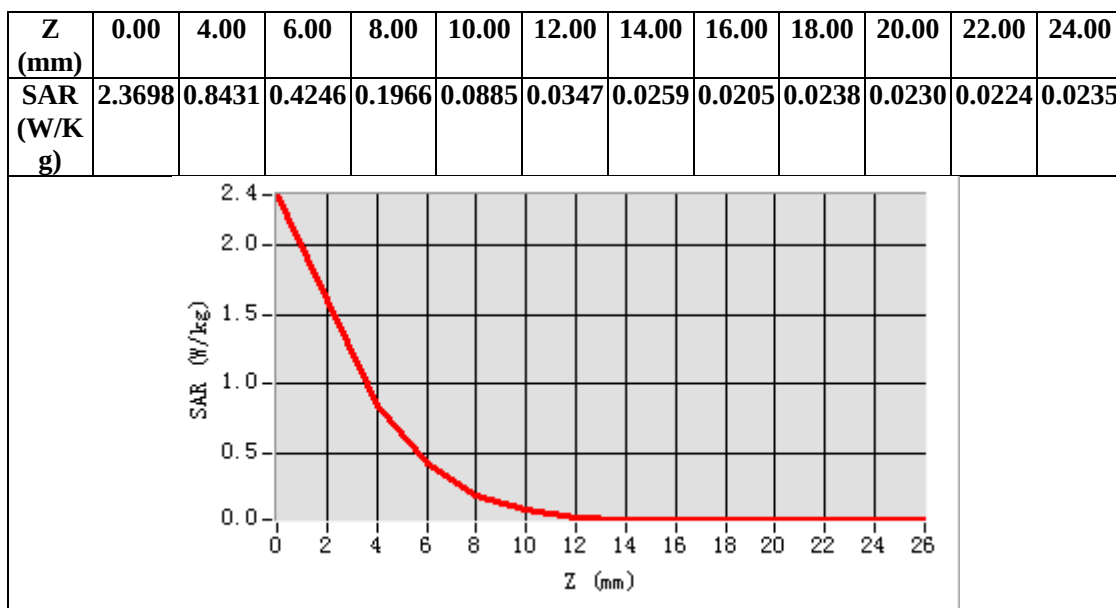
Maximum location: X=0.00, Y=0.00

SAR Peak: 2.34 W/kg

SAR 10g (W/Kg)	0.224073
SAR 1g (W/Kg)	0.777915

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Test Laboratory: AGC Lab
System Check Head 5600 MHz
DUT: Dipole 5000MHz Type: SID5000

Date: Dec. 15, 2023

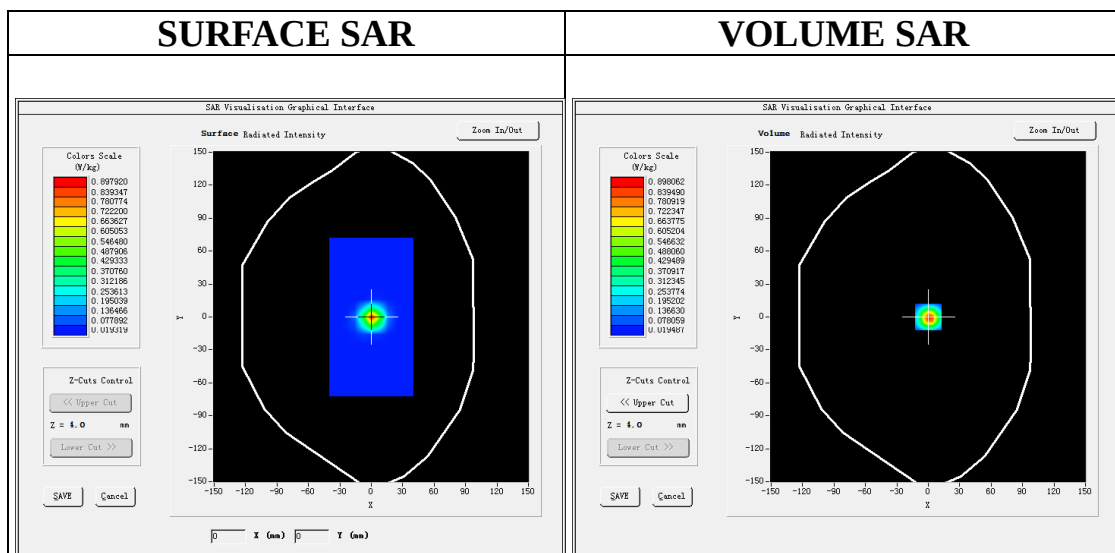
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53
Frequency: 5600 MHz; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.14$ mho/m; $\epsilon_r = 36.55$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.0

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_32

Configuration/System Check 5600 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5600 MHz Head/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 2.49 W/kg

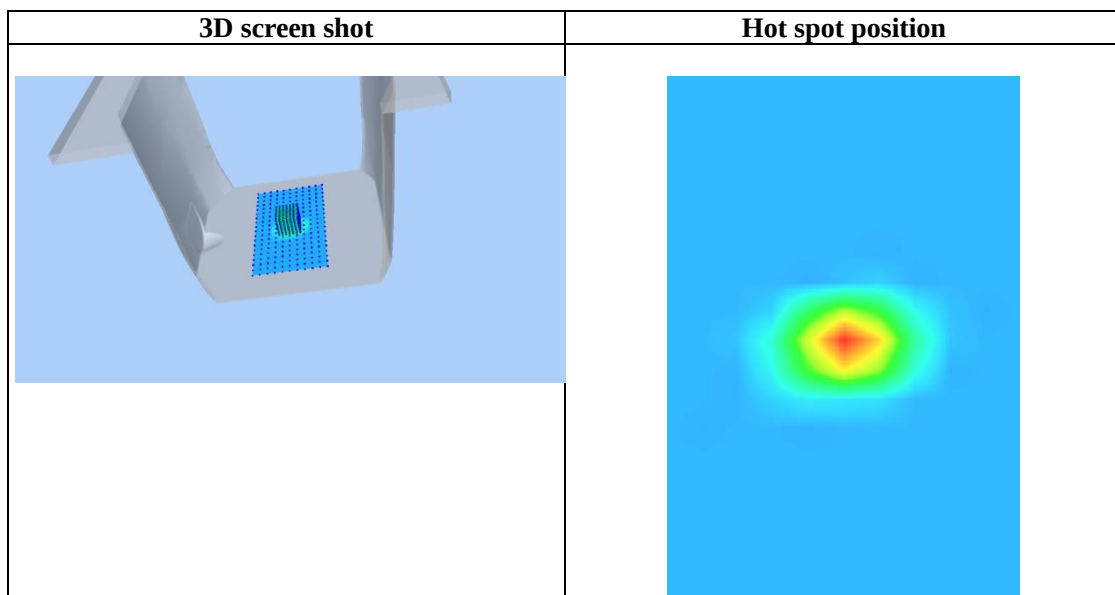
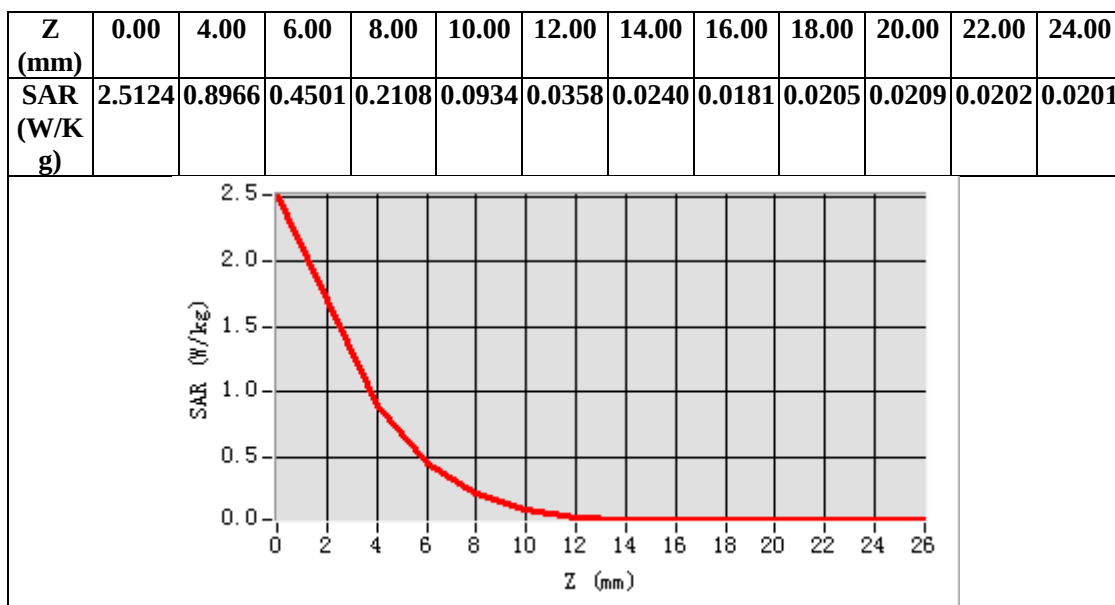
SAR 10g (W/Kg)	0.232941
SAR 1g (W/Kg)	0.823269

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

Date: Dec. 16, 2023

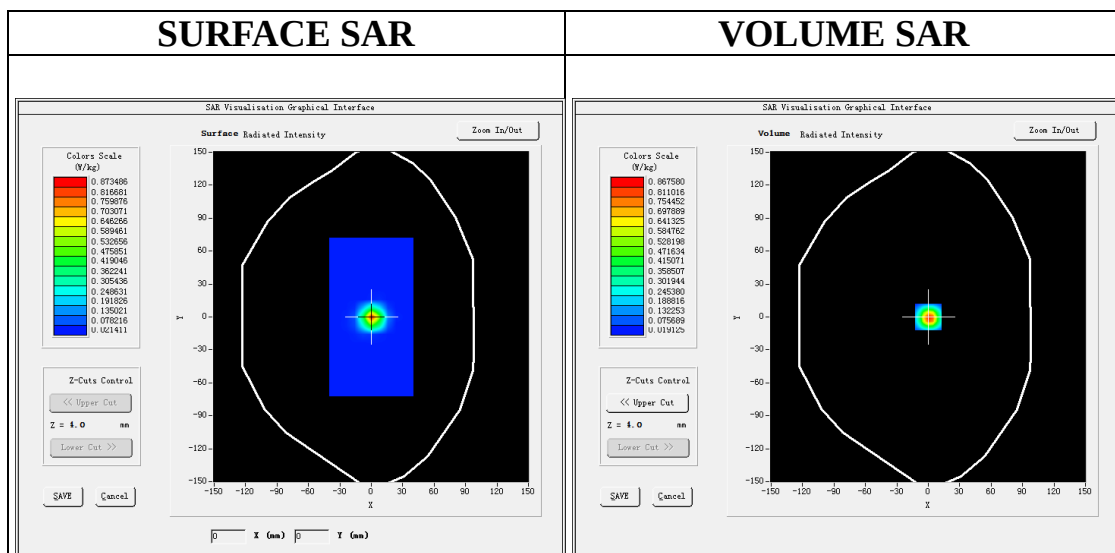
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.41
Frequency: 5800 MHz; Medium parameters used: $f = 5800$ MHz; $\sigma = 5.25$ mho/m; $\epsilon_r = 35.23$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.3

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_32

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

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



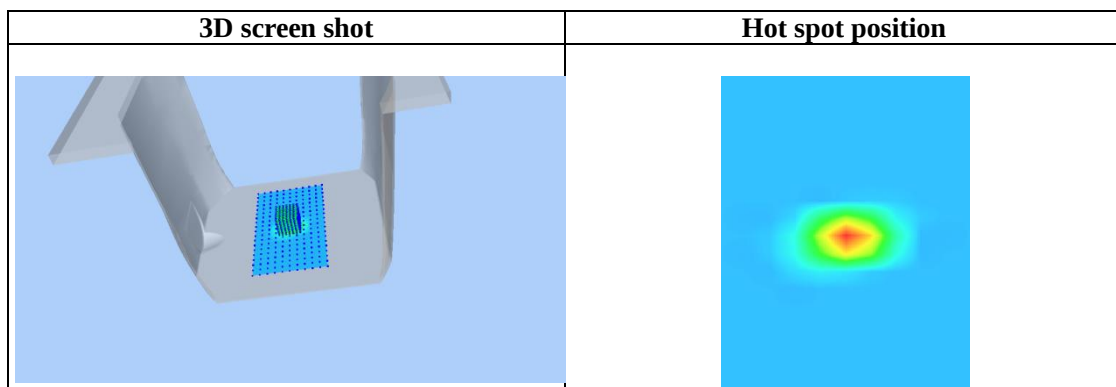
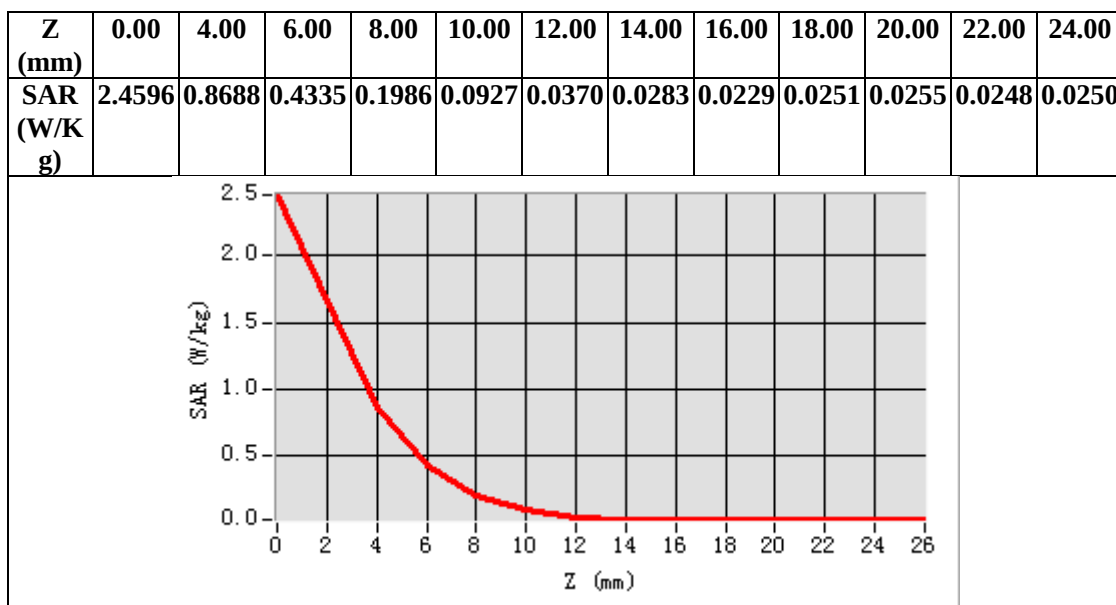
Maximum location: X=0.00, Y=0.00

SAR Peak: 2.45 W/kg

SAR 10g (W/Kg)	0.232296
SAR 1g (W/Kg)	0.806501

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab
WCDMA Band II Mid-Edge 3(RMC)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 12, 2023

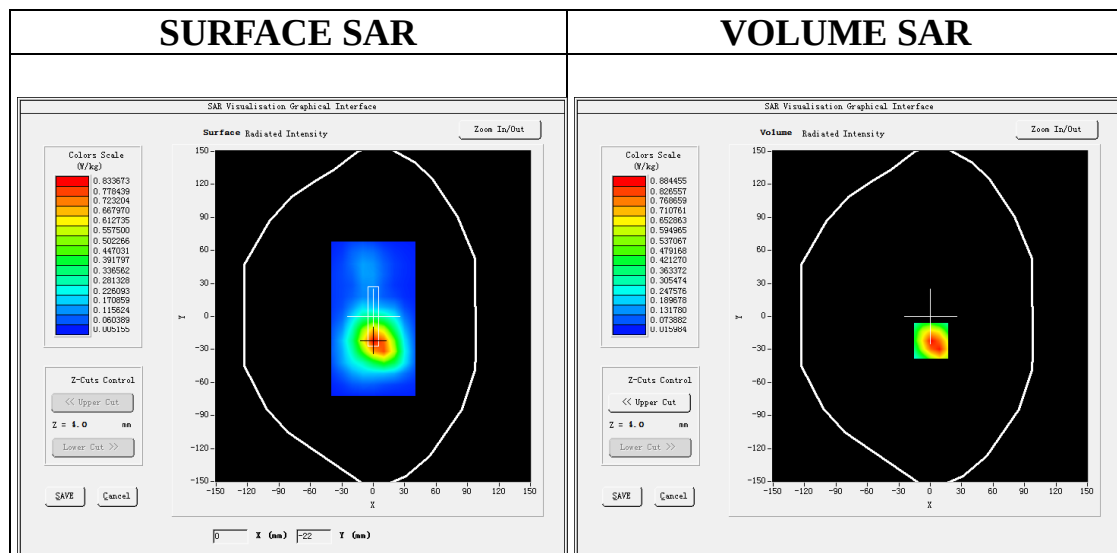
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.15
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 40.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

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_32

Configuration/ WCDMA band II Mid-Edge 3/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Edge 3/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	Edge 3
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=1.00, Y=-22.00

SAR Peak: 1.35 W/kg

SAR 10g (W/Kg)	0.472235
SAR 1g (W/Kg)	0.842404

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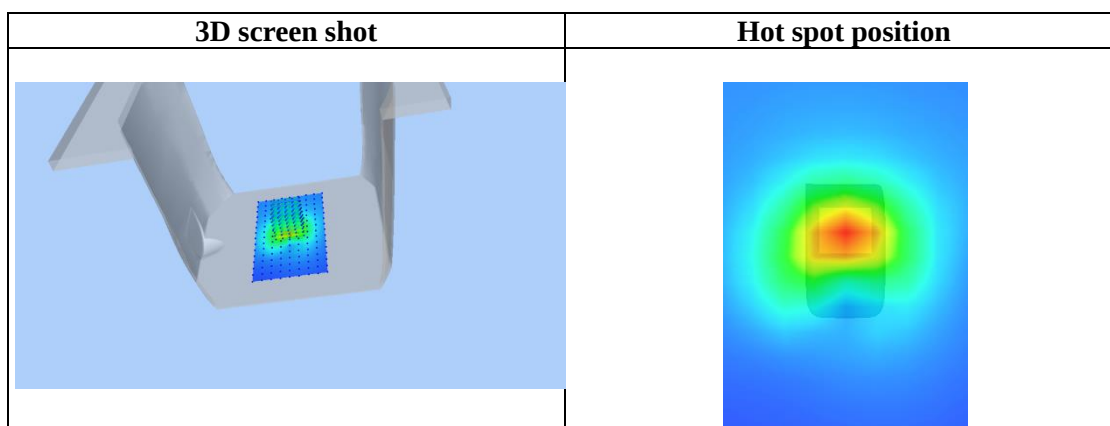
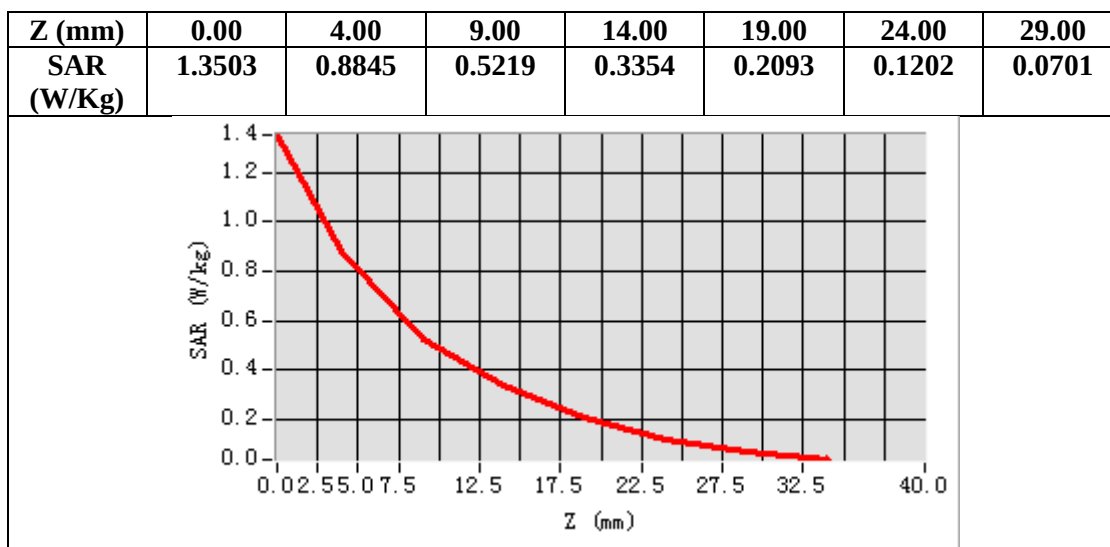
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Test Laboratory: AGC Lab
WCDMA Band IV High- Edge 3(Bottom) (RMC)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 08, 2023

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17; Frequency:1752.6 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.60$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

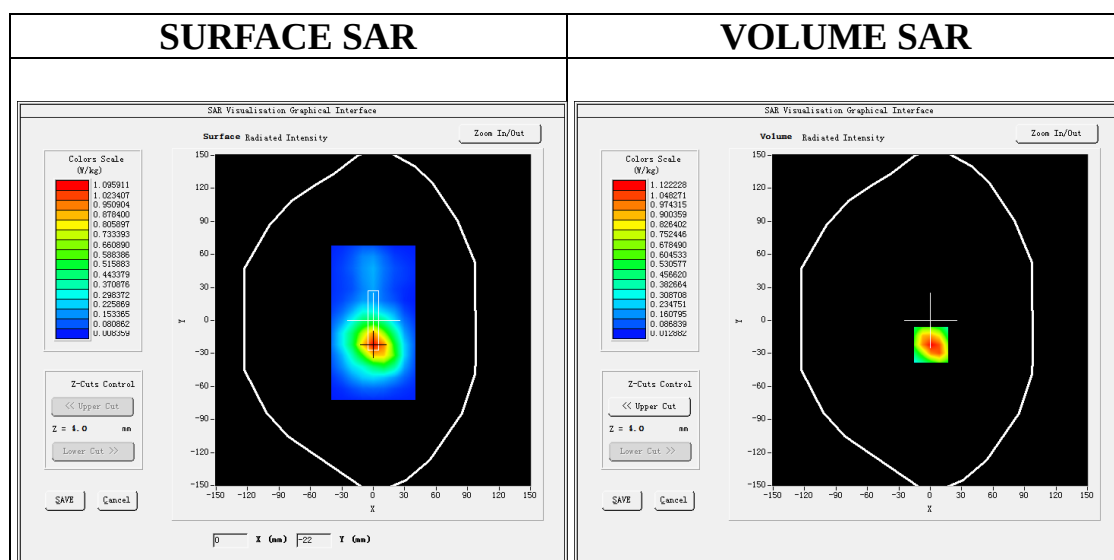
Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

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_32

Configuration/ WCDMA Band IV High- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV High- Edge 3(Bottom)/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	Edge 3(Bottom)
Band	WCDMA Band IV
Channels	High
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=1.00, Y=-22.00

SAR Peak: 1.80 W/kg

SAR 10g (W/Kg)	0.590537
SAR 1g (W/Kg)	1.079606

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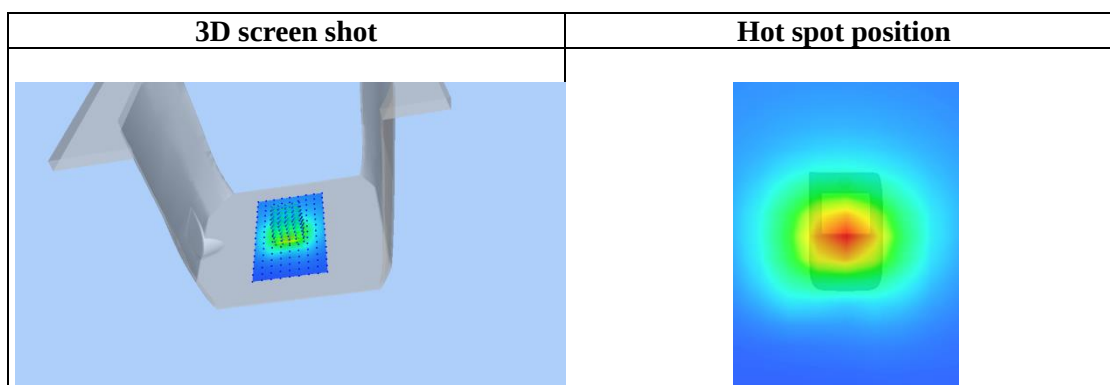
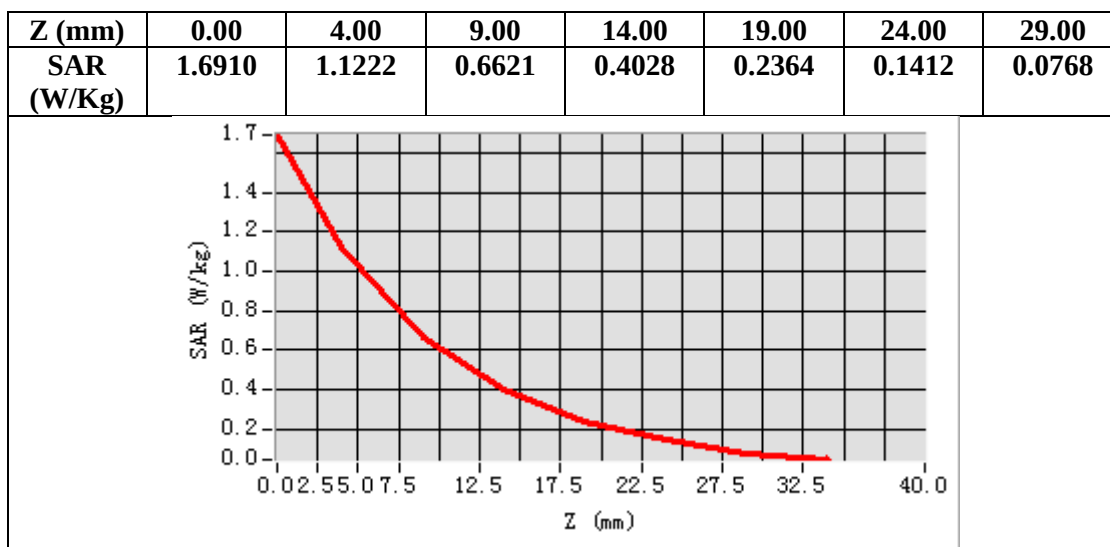
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Test Laboratory: AGC Lab

Date: Dec. 10, 2023

WCDMA Band V Mid- Edge 3(Bottom) (RMC)

DUT: Body Worn Camera; Type: KS4

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: $f = 835\text{MHz}$; $\sigma = 0.93\text{ mho/m}$; $\epsilon_r = 40.67$; $\rho = 1000\text{ kg/m}^3$; Phantom section: Flat Section

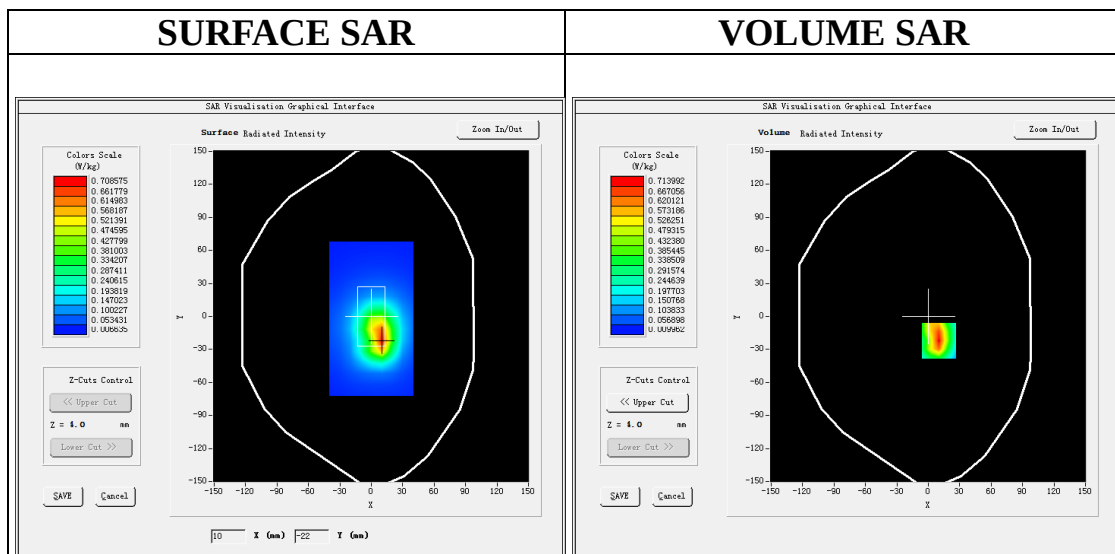
Ambient temperature (°C): 20.5, Liquid temperature (°C): 20.1

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_32

Configuration/ WCDMA Band V Mid- Edge 3(Bottom)/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band V Mid- Edge 3(Bottom)/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 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=10.00, Y=-22.00

SAR Peak: 1.28 W/kg

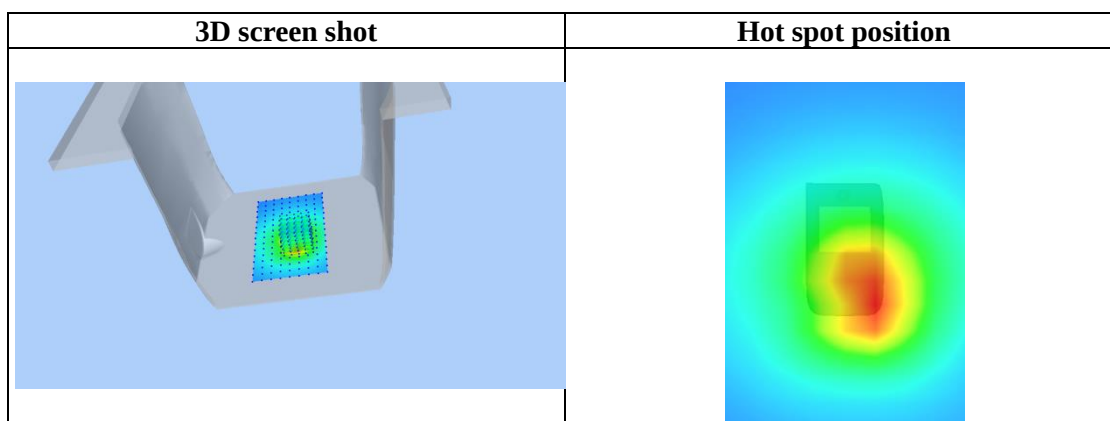
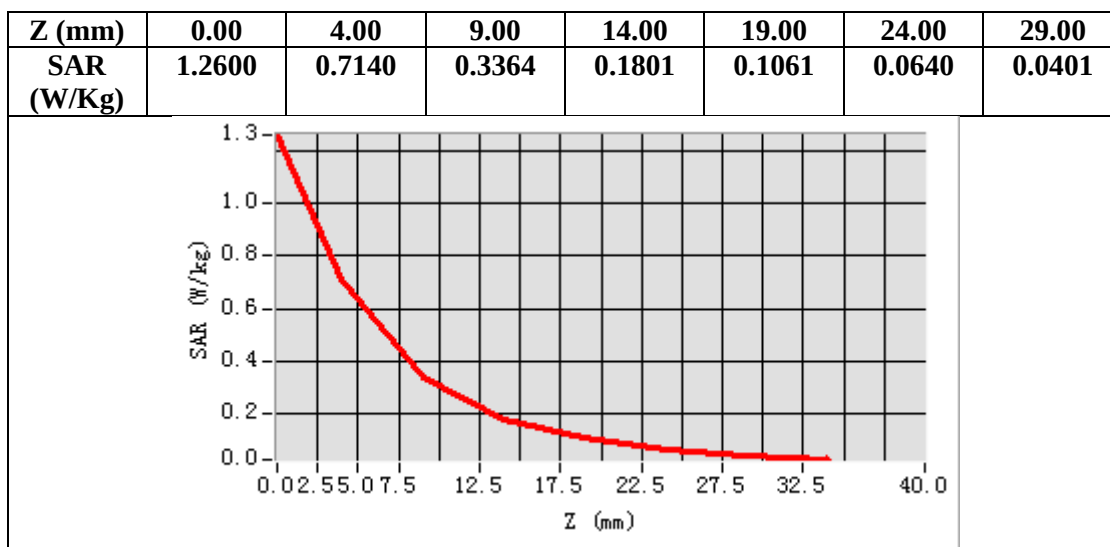
SAR 10g (W/Kg)	0.330216
SAR 1g (W/Kg)	0.672325

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Test Laboratory: AGC Lab
LTE Band 2 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 12, 2023

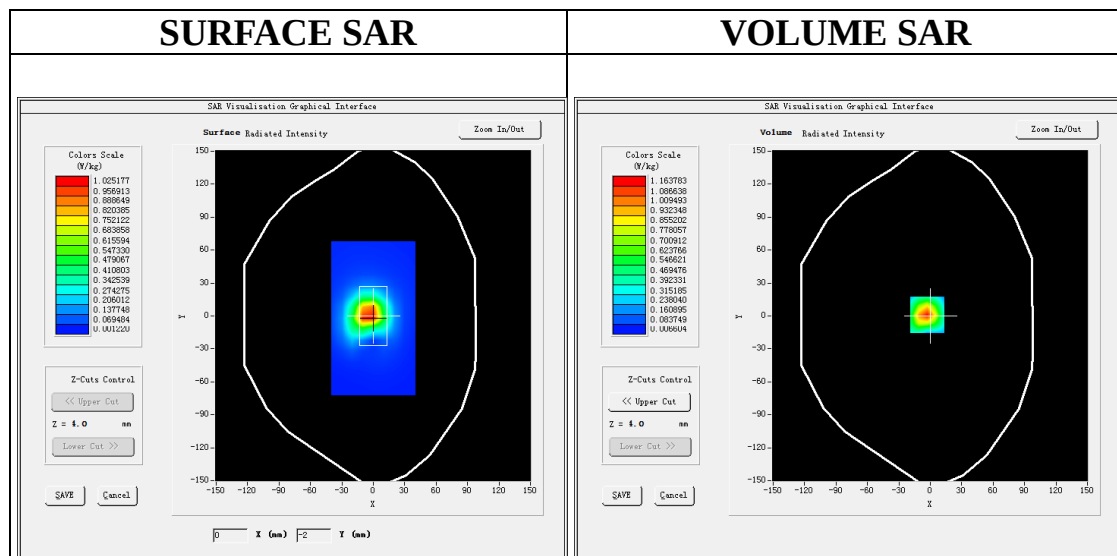
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;
Frequency:1880MHz; Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.35 \text{ mho/m}$; $\epsilon_r = 40.36$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.5

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_32

Configuration/ LTE Band 2 Mid- Edge 3(Bottom) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Mid- Edge 3(Bottom) /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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



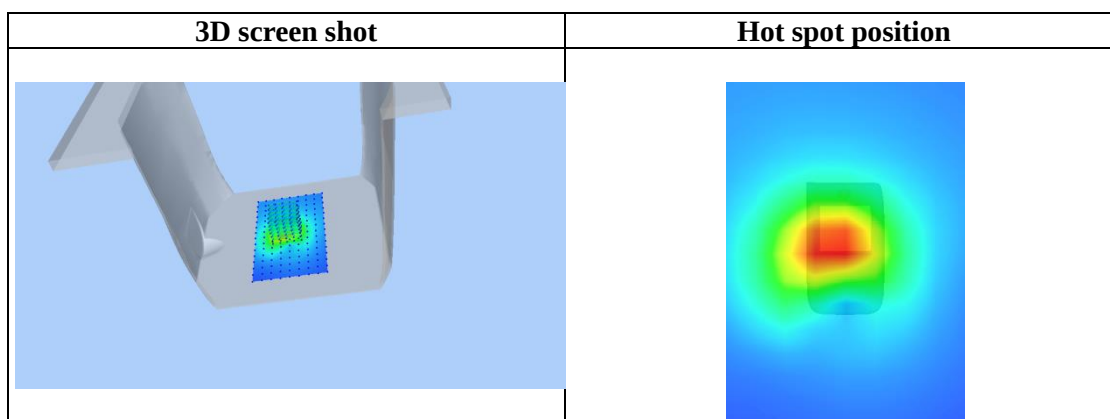
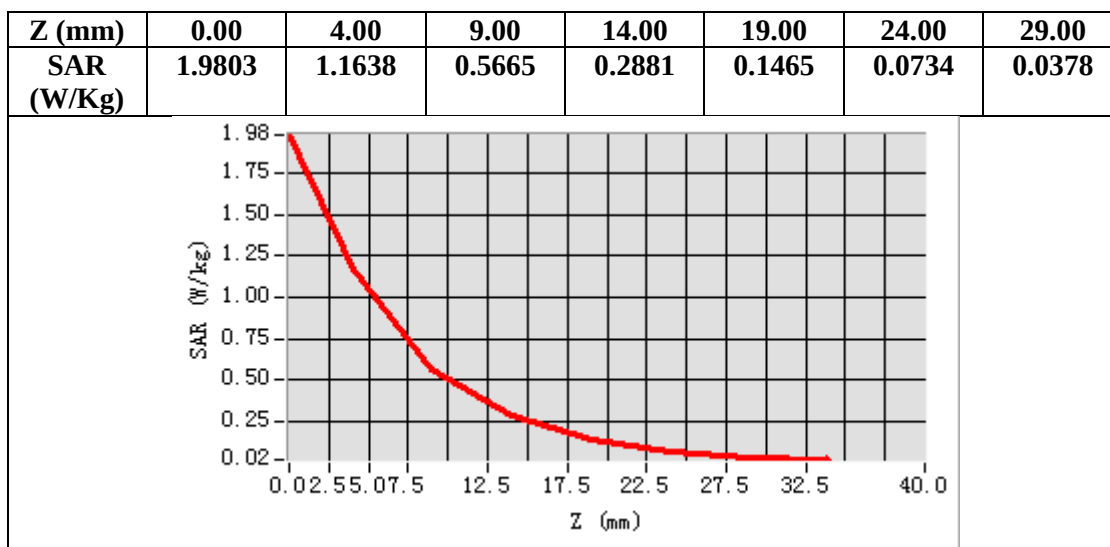
Maximum location: X=-3.00, Y=1.00

SAR Peak: 1.98 W/kg

SAR 10g (W/Kg)	0.487657
SAR 1g (W/Kg)	1.077444

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Test Laboratory: AGC Lab
LTE Band 2 High- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 12, 2023

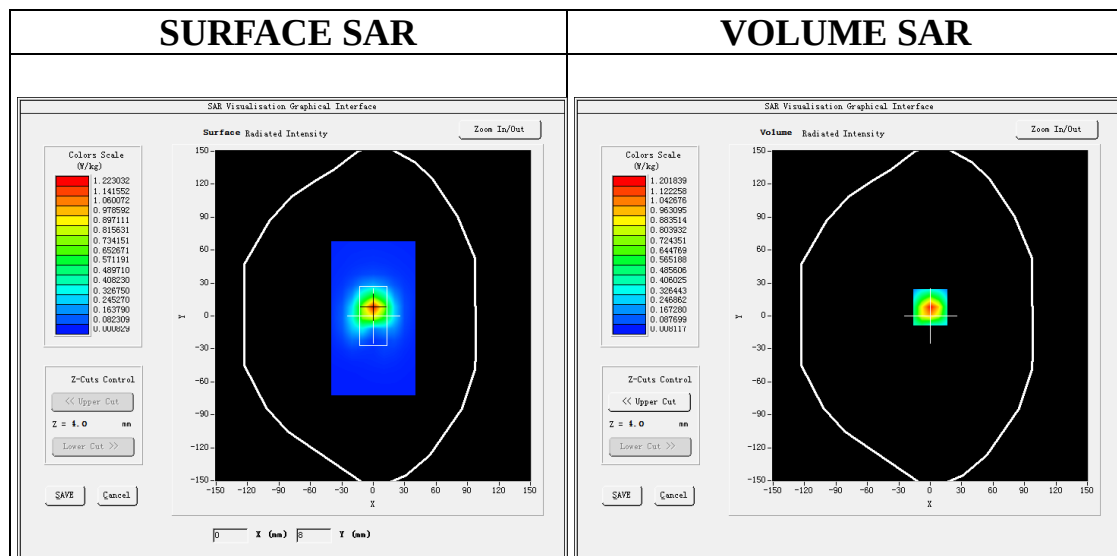
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;
Frequency:1900MHz; Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.44$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.5

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_32

Configuration/ LTE Band 2 High - Edge 3(Bottom) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 High - Edge 3(Bottom) /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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 2
Channels	High
Signal	OFDM (Crest factor: 1.0)



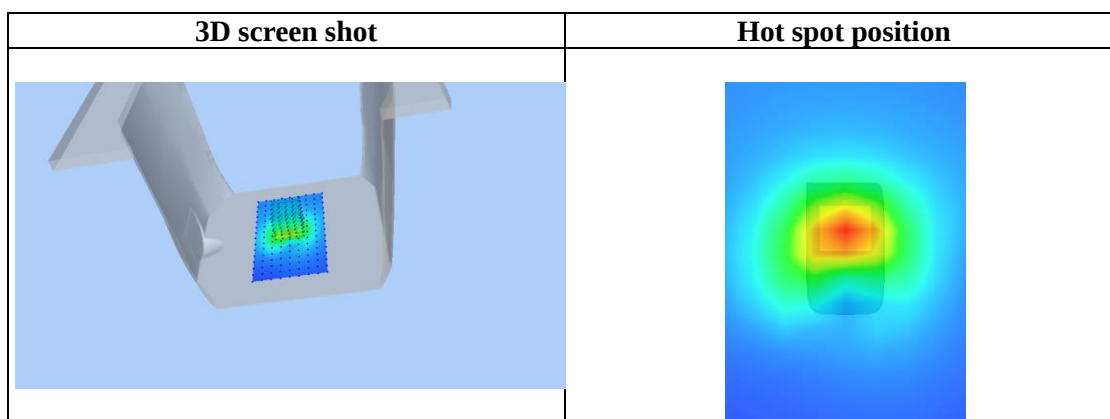
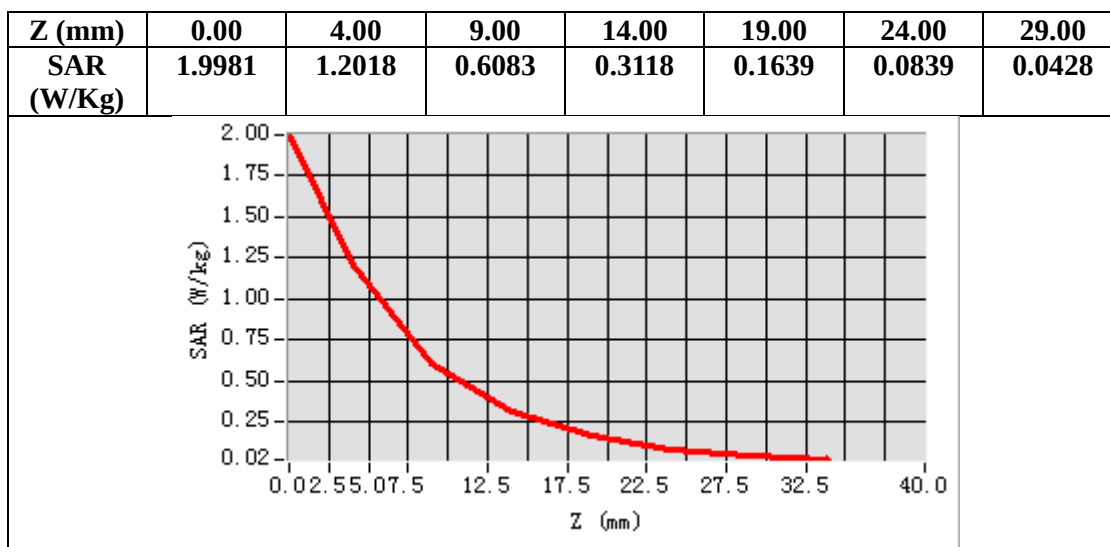
Maximum location: X=0.00, Y=8.00

SAR Peak: 2.03 W/kg

SAR 10g (W/Kg)	0.510493
SAR 1g (W/Kg)	1.119218

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Test Laboratory: AGC Lab
LTE Band 4 High- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 08, 2023

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;
Frequency:1745 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

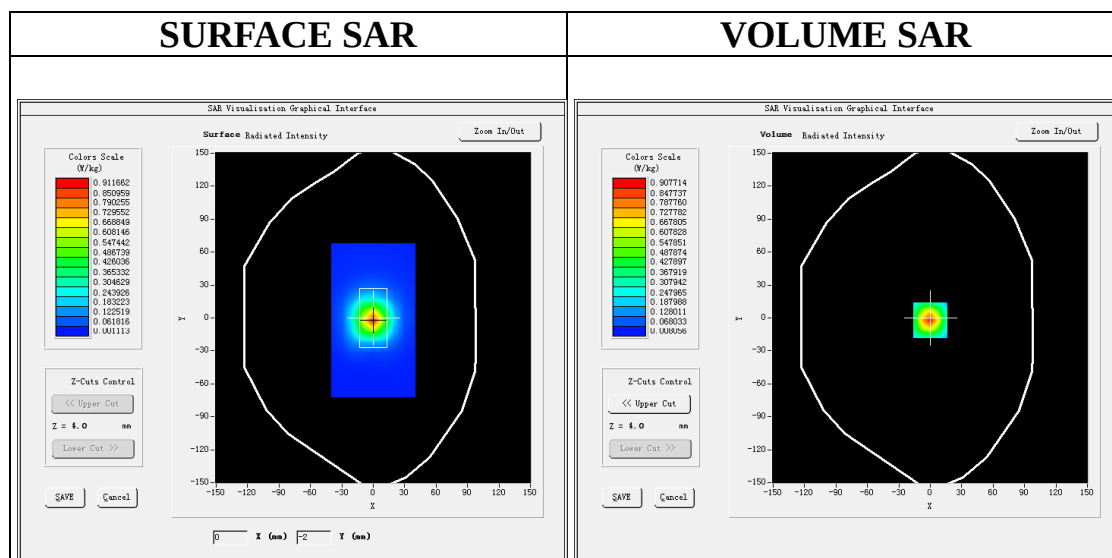
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 4 High- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 4 High- Edge 3(Bottom)/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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 4
Channels	High
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=0.00, Y=-2.00

SAR Peak: 1.53 W/kg

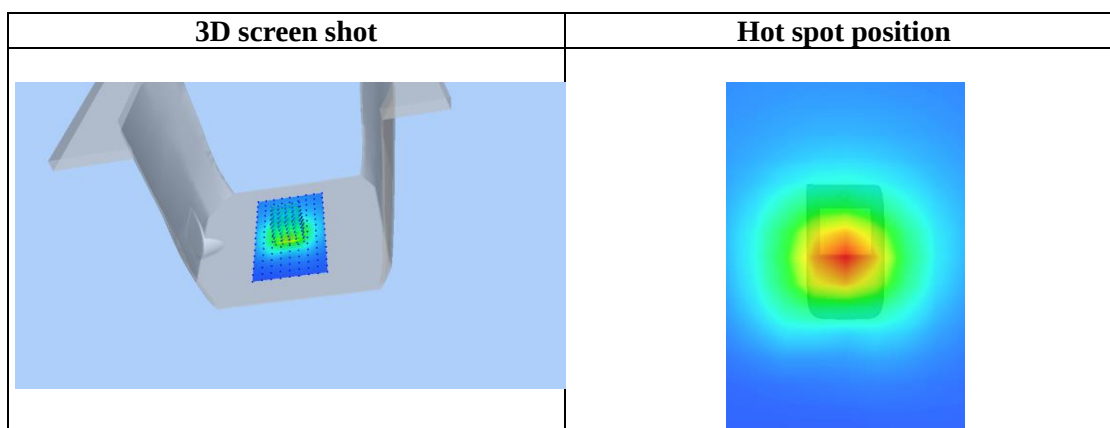
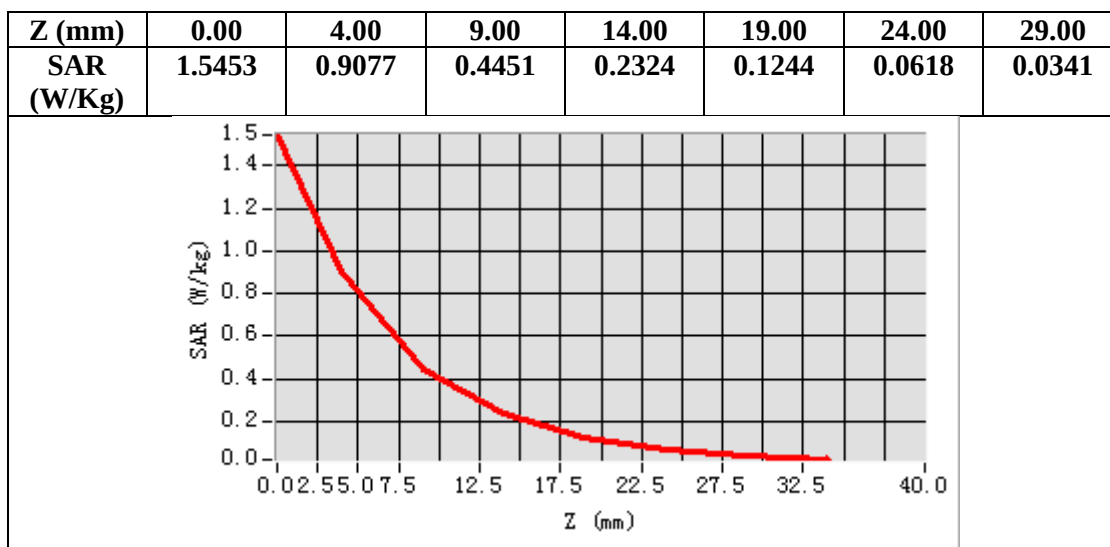
SAR 10g (W/Kg)	0.389218
SAR 1g (W/Kg)	0.838854

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Test Laboratory: AGC Lab
LTE Band 5 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 10, 2023

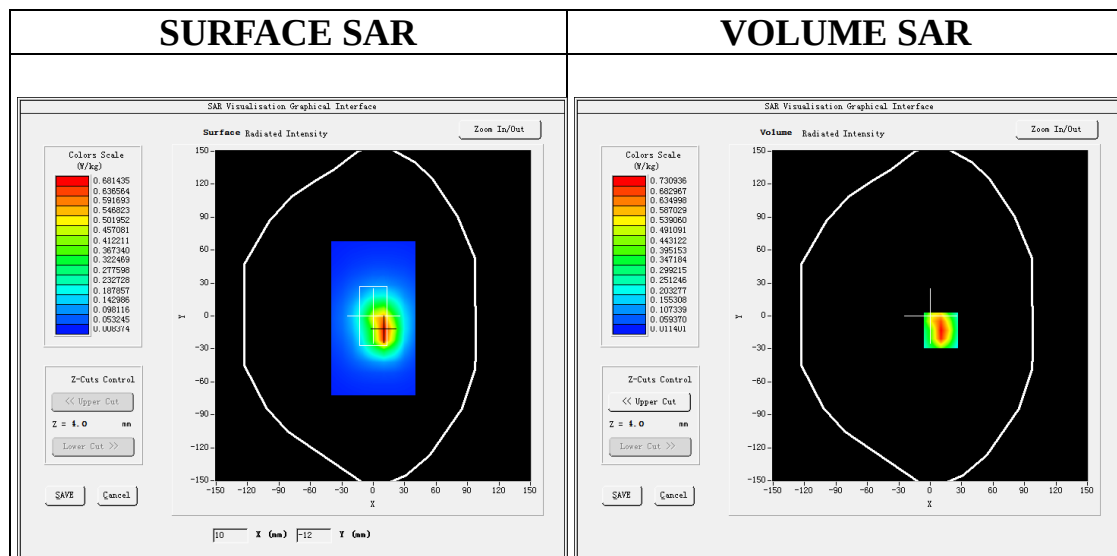
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02
Frequency:836.5 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 40.67$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.5, Liquid temperature ($^{\circ}\text{C}$): 20.1

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_32

Configuration/ LTE Band 5 Mid- Edge 3(Bottom)/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ LTE Band 5 Mid- Edge 3(Bottom)/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 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



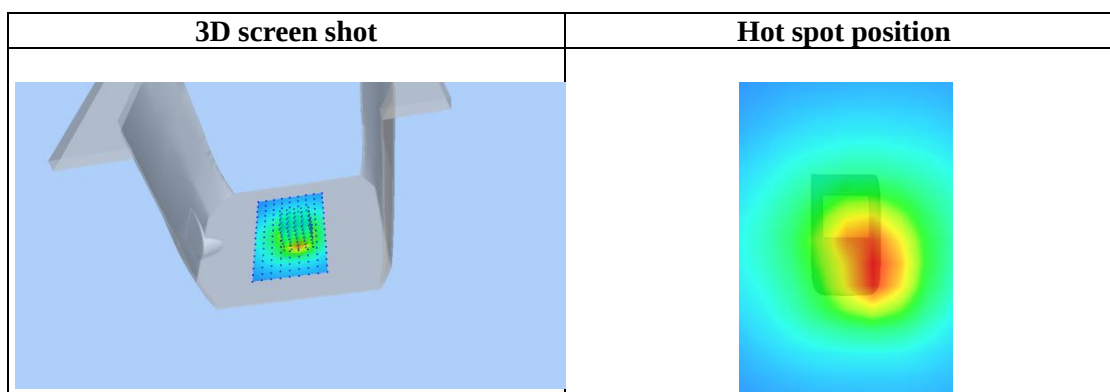
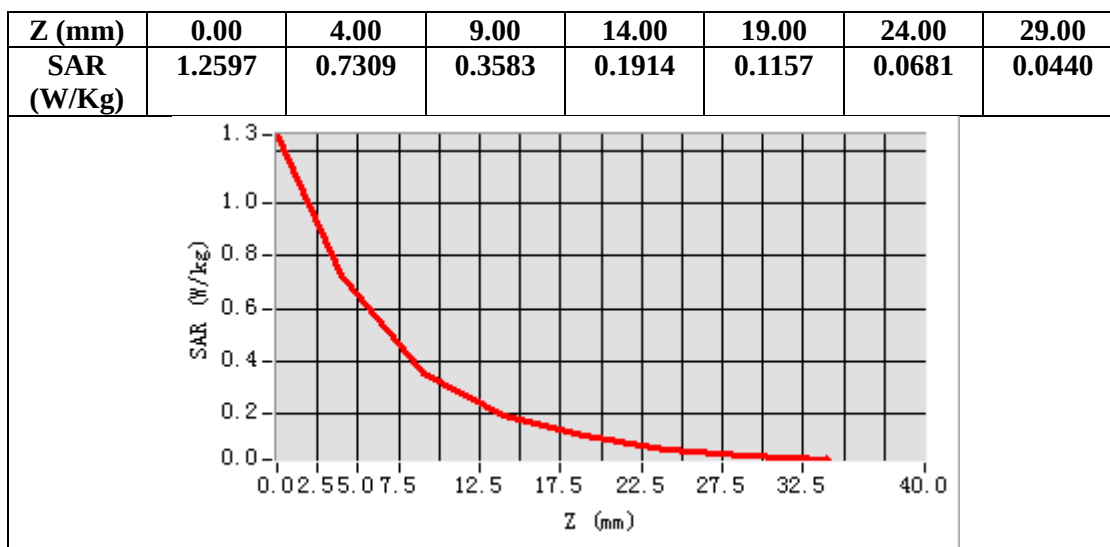
Maximum location: X=10.00, Y=-13.00

SAR Peak: 1.35 W/kg

SAR 10g (W/Kg)	0.346826
SAR 1g (W/Kg)	0.704164

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Test Laboratory: AGC Lab
LTE Band 12 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 06, 2023

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 707.5 MHz; Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 43.39$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.8, Liquid temperature ($^{\circ}\text{C}$): 21.3

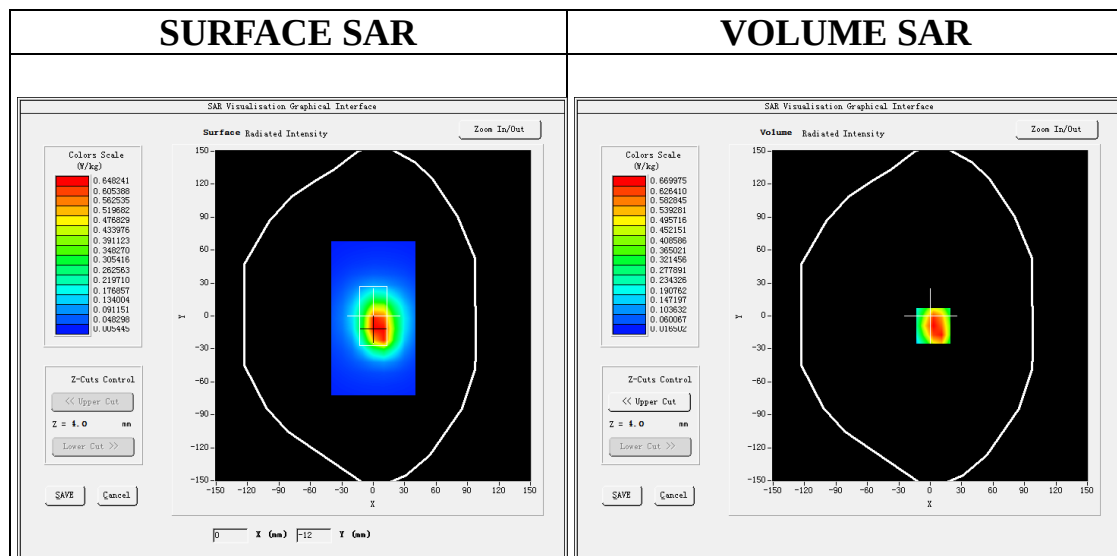
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 12 Mid- Edge 3(Bottom)/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$

Configuration/ LTE Band 12 Mid- Edge 3(Bottom)/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 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



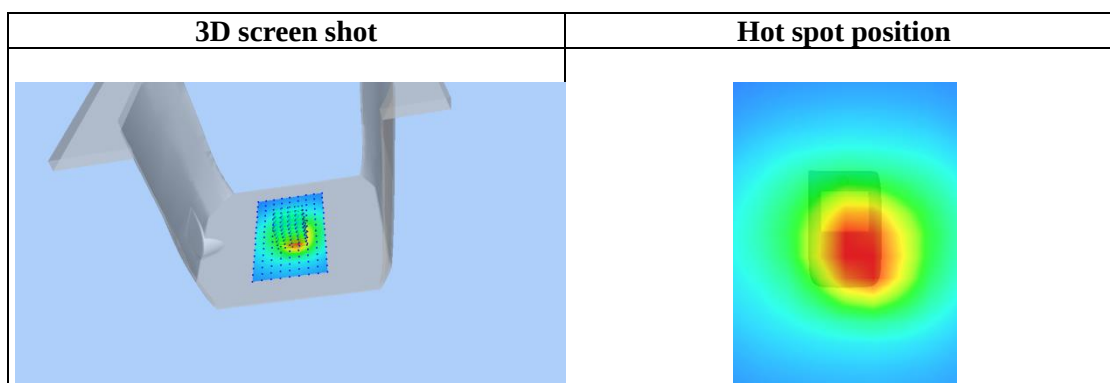
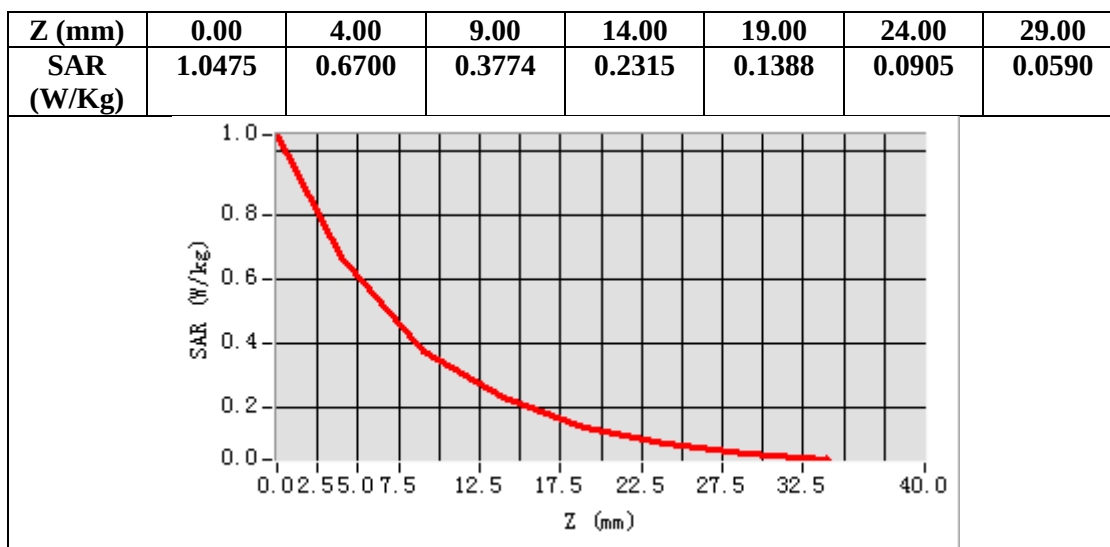
Maximum location: X=3.00, Y=-9.00

SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.368516
SAR 1g (W/Kg)	0.677079

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Test Laboratory: AGC Lab
LTE Band 13 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 06, 2023

Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 782 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.3

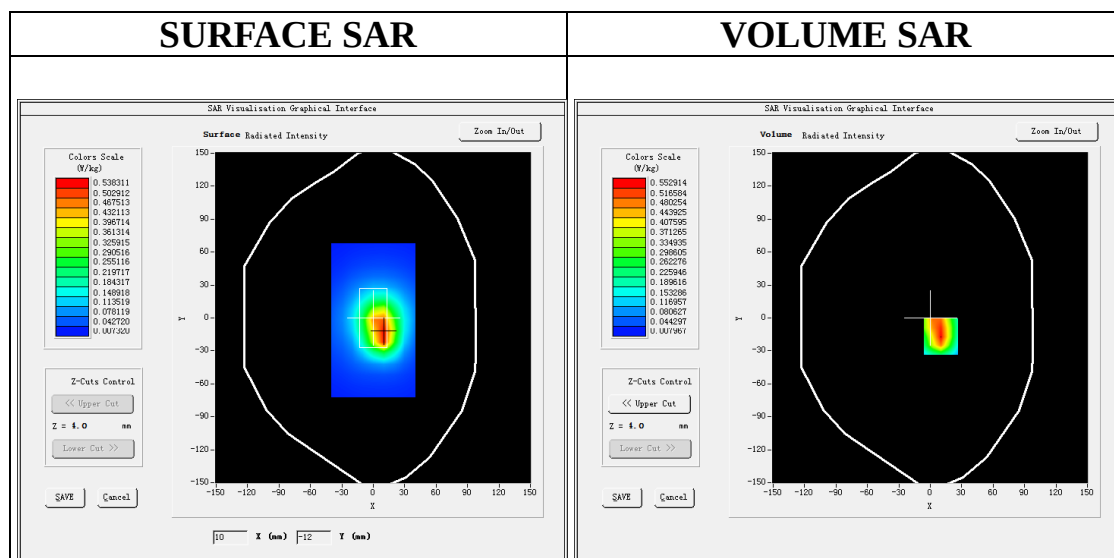
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 13 Mid- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 13 Mid- Edge 3(Bottom)/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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 13
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=10.00, Y=-17.00

SAR Peak: 1.00 W/kg

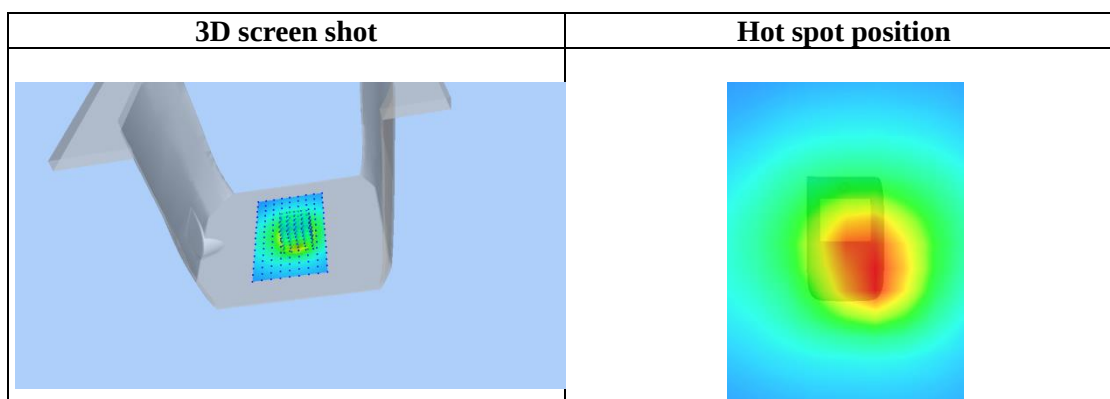
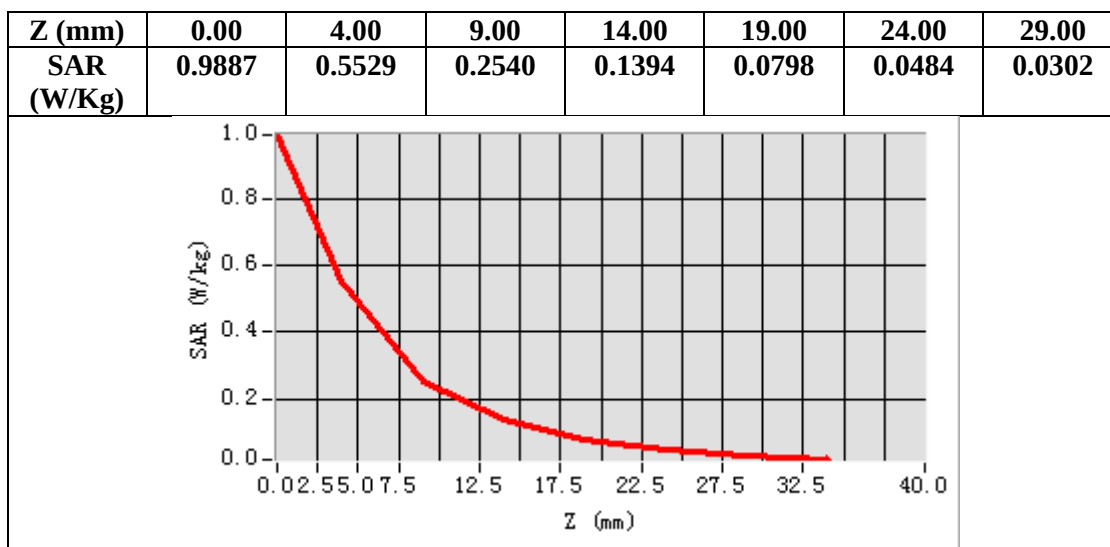
SAR 10g (W/Kg)	0.269387
SAR 1g (W/Kg)	0.535225

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Test Laboratory: AGC Lab
LTE Band 14 Mid- Edge 4(Left) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 06, 2023

Communication System: LTE; Communication System Band: LTE Band 14; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 793 MHz; Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 40.27$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.8, Liquid temperature ($^{\circ}\text{C}$): 21.3

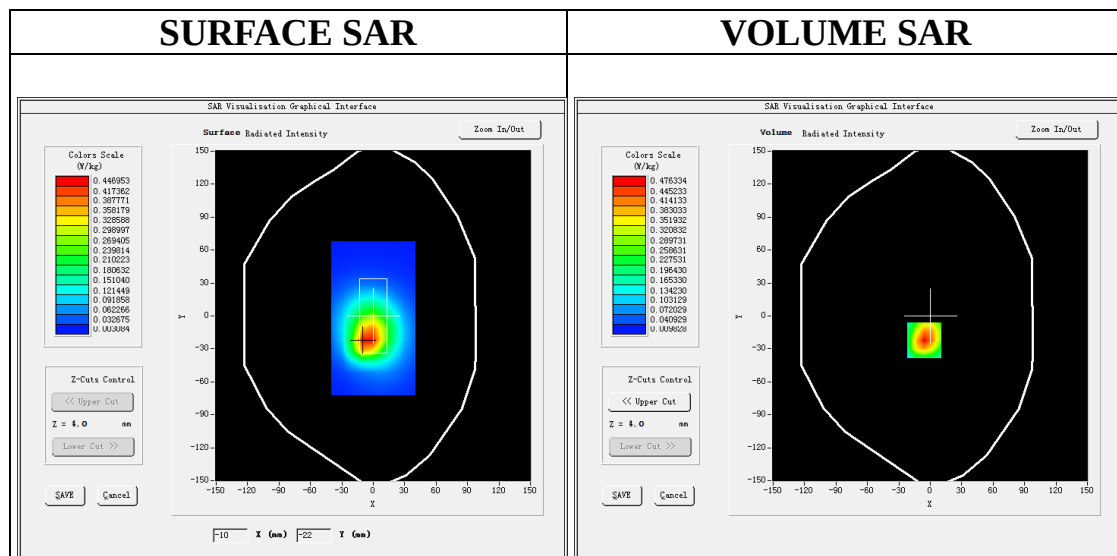
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 14 Mid- Edge 4(Left)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 14 Mid- Edge 4(Left)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge 4(Left)
Band	LTE Band 14
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=-6.00, Y=-22.00

SAR Peak: 0.78 W/kg

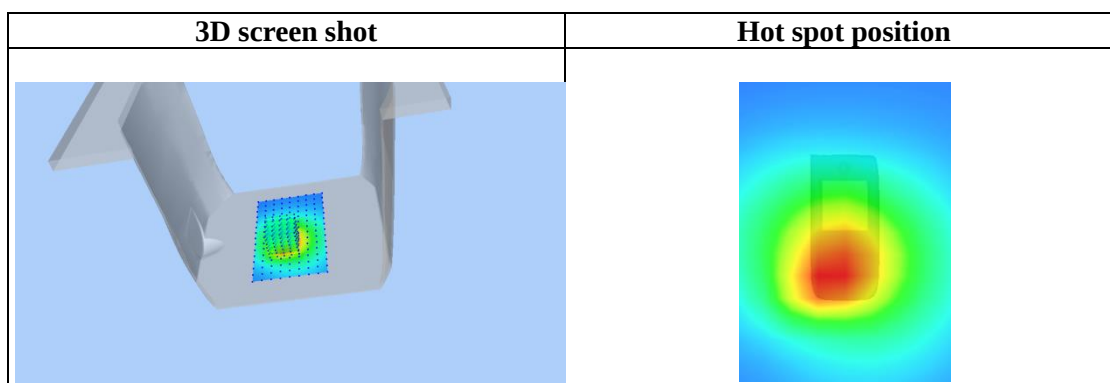
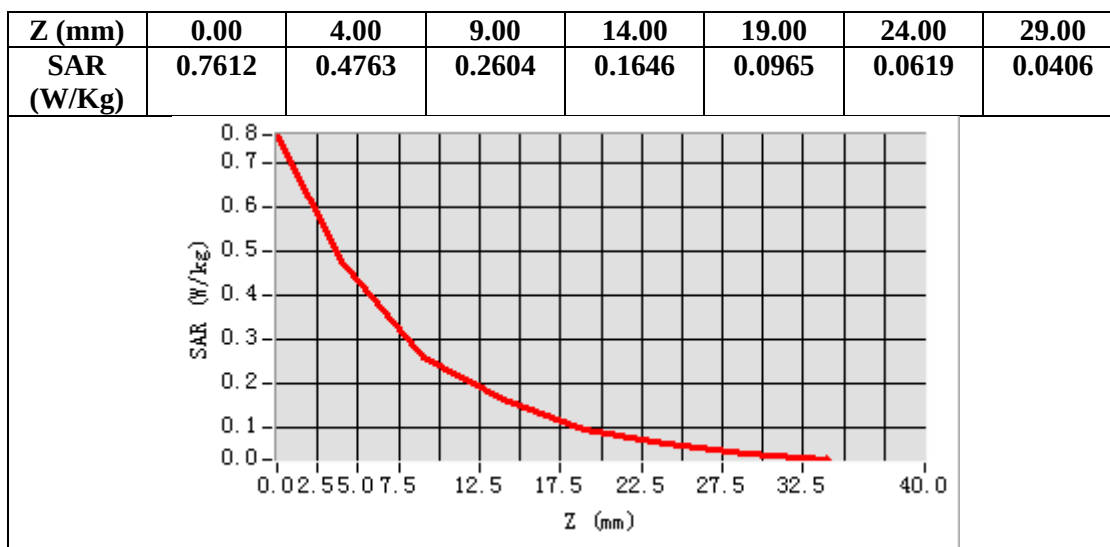
SAR 10g (W/Kg)	0.255558
SAR 1g (W/Kg)	0.458494

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Test Laboratory: AGC Lab
LTE Band 66 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 08, 2023

Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17;
Frequency:1755 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 37.32$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

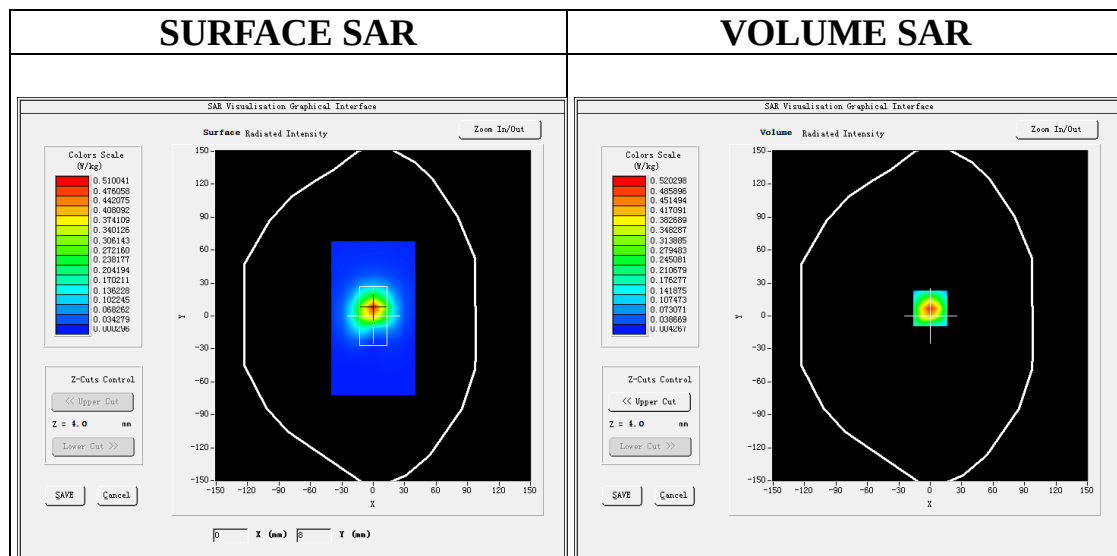
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 66 Mid- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 66 Mid- Edge 3(Bottom)/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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 66
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=0.00, Y=7.00

SAR Peak: 0.87 W/kg

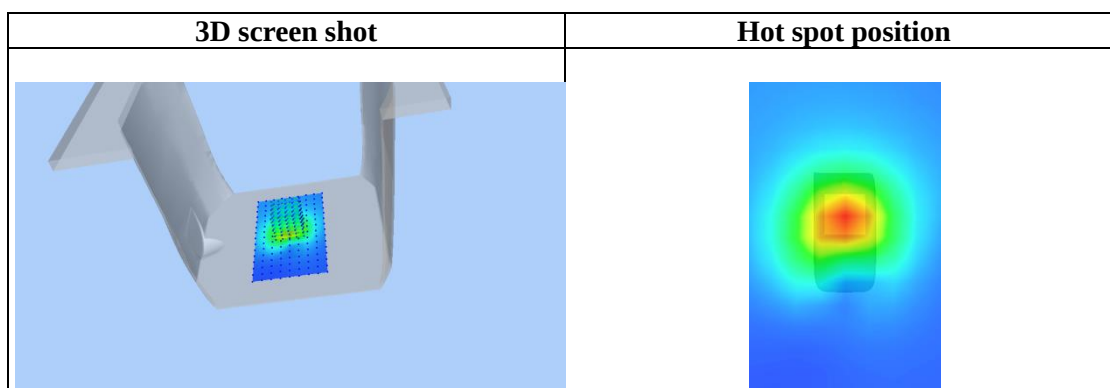
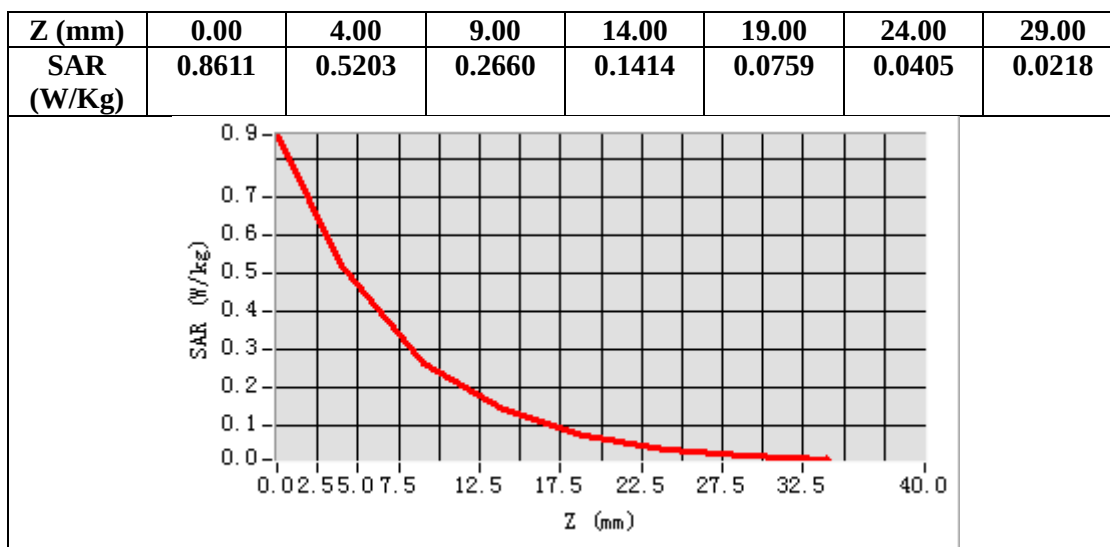
SAR 10g (W/Kg)	0.224594
SAR 1g (W/Kg)	0.482167

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Test Laboratory: AGC Lab
LTE Band 71 Mid- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 06, 2023

Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 683 MHz; Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 44.21$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.8, Liquid temperature ($^{\circ}\text{C}$): 21.3

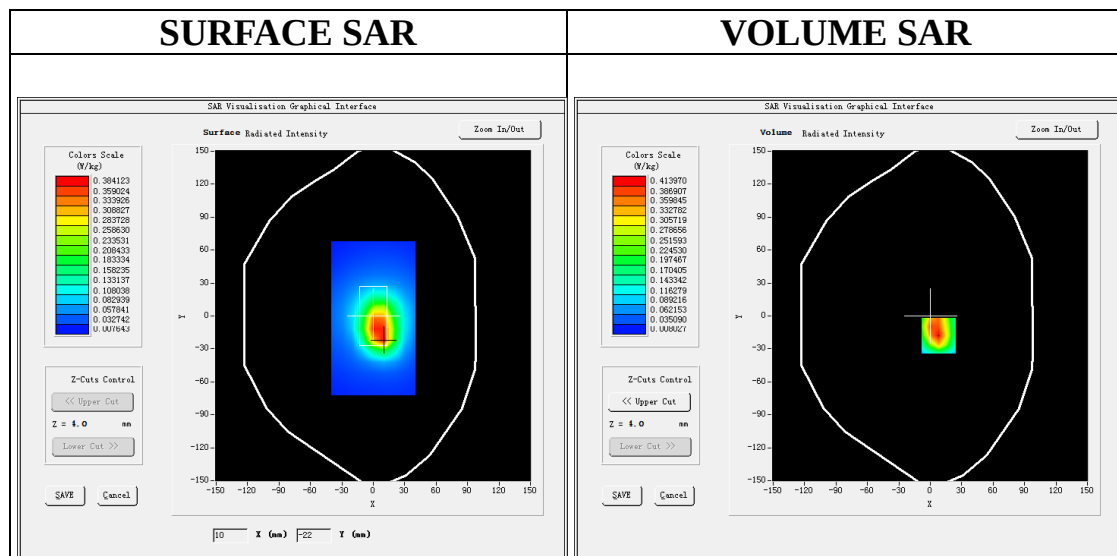
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 71 Mid- Edge 3(Bottom)/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$

Configuration/ LTE Band 71 Mid- Edge 3(Bottom)/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 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 71
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=8.00, Y=-18.00

SAR Peak: 0.74 W/kg

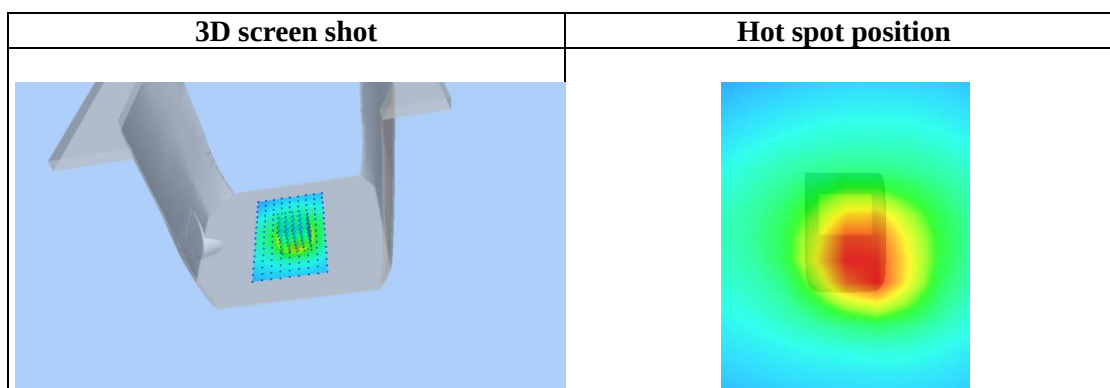
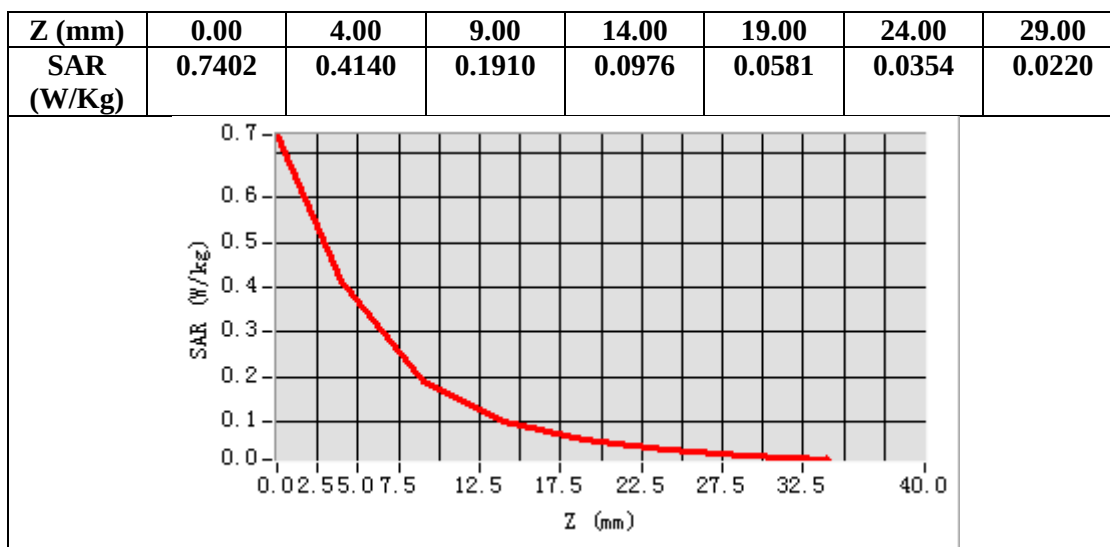
SAR 10g (W/Kg)	0.210337
SAR 1g (W/Kg)	0.417321

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2.4GHz 802.11a

Test Laboratory: AGC Lab

802.11b Mid-Body-Worn- Front

DUT: Body Worn Camera; Type: KS4

Date: Dec. 11, 2023

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 41.22$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C):21.1, Liquid temperature (°C): 20.7

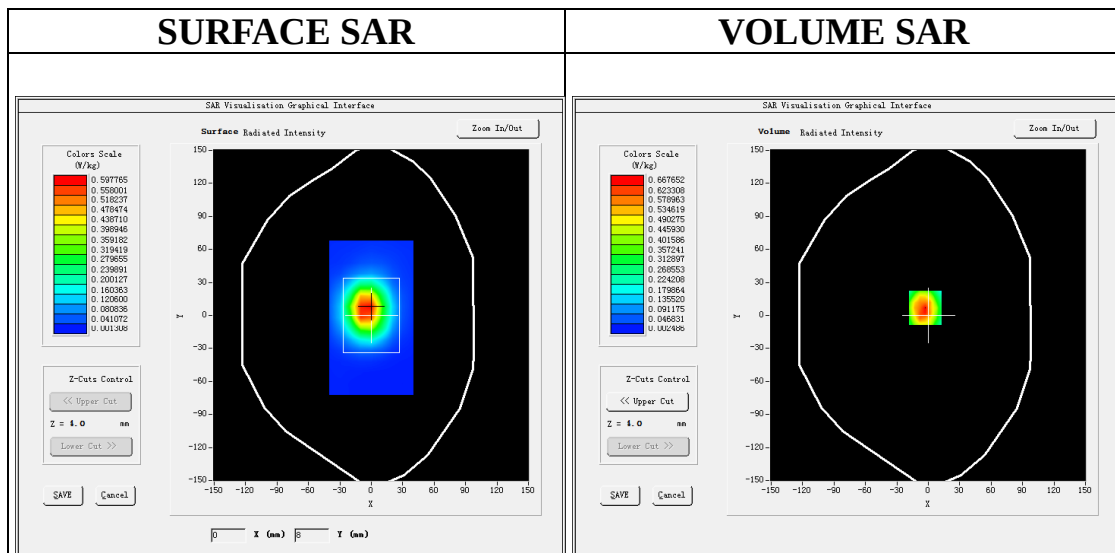
SATIMO Configuration:

- 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_32

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

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

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



Maximum location: X=-3.00, Y=7.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.300998
SAR 1g (W/Kg)	0.601575

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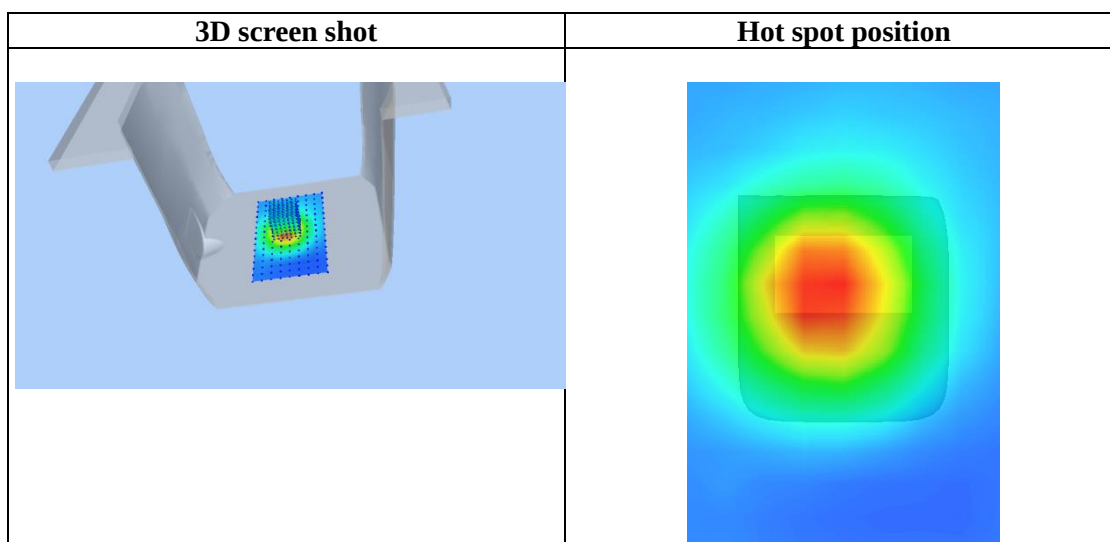
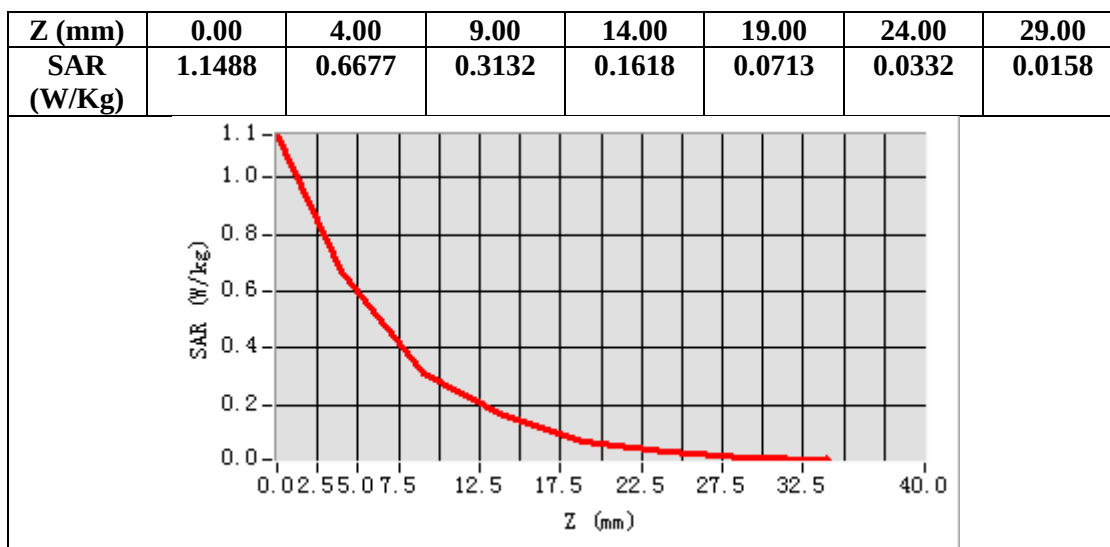
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5.2GHz 802.11a

Test Laboratory: AGC Lab

802.11a CH40- Edge 4(Left)

DUT: Body Worn Camera; Type: KS4

Date: Dec. 13, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.35;
Frequency: 5200MHz; Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.50 \text{ mho/m}$; $\epsilon_r = 36.21$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section

Ambient temperature (°C): 20.1, Liquid temperature (°C): 19.8

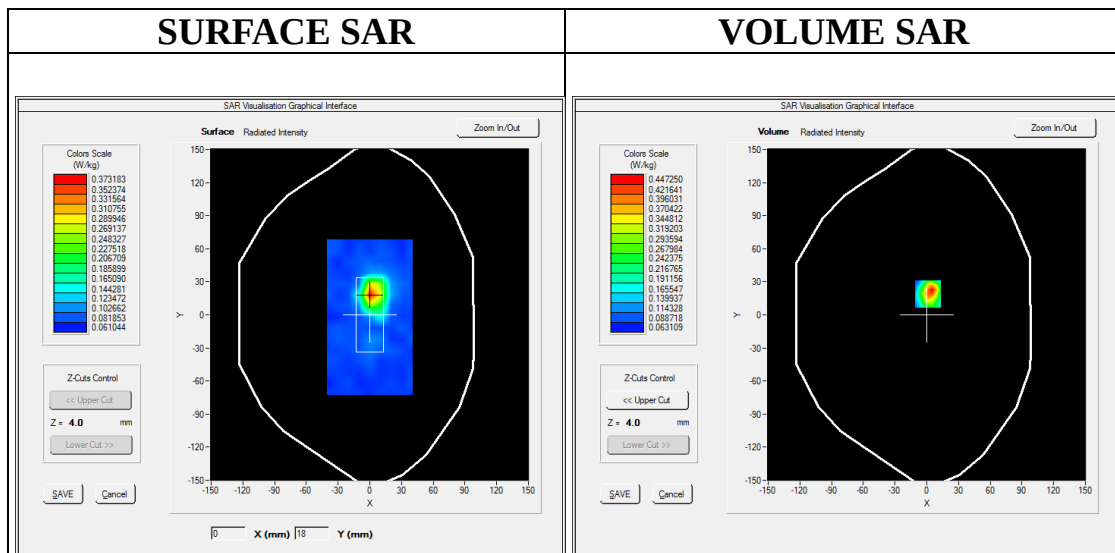
SATIMO Configuration:

- 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_32

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

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

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



Maximum location: X=1.00, Y=19.00

SAR Peak: 1.24 W/kg

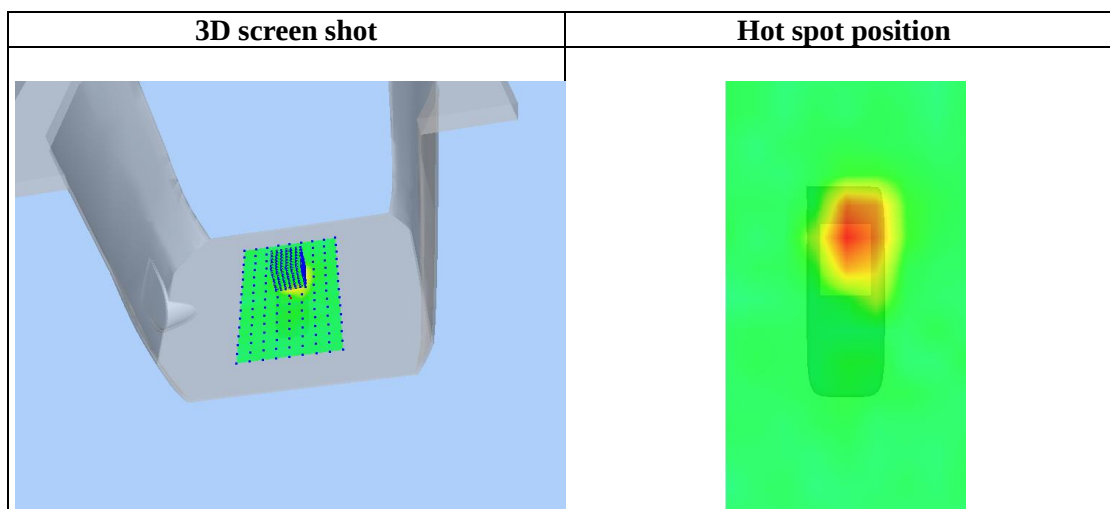
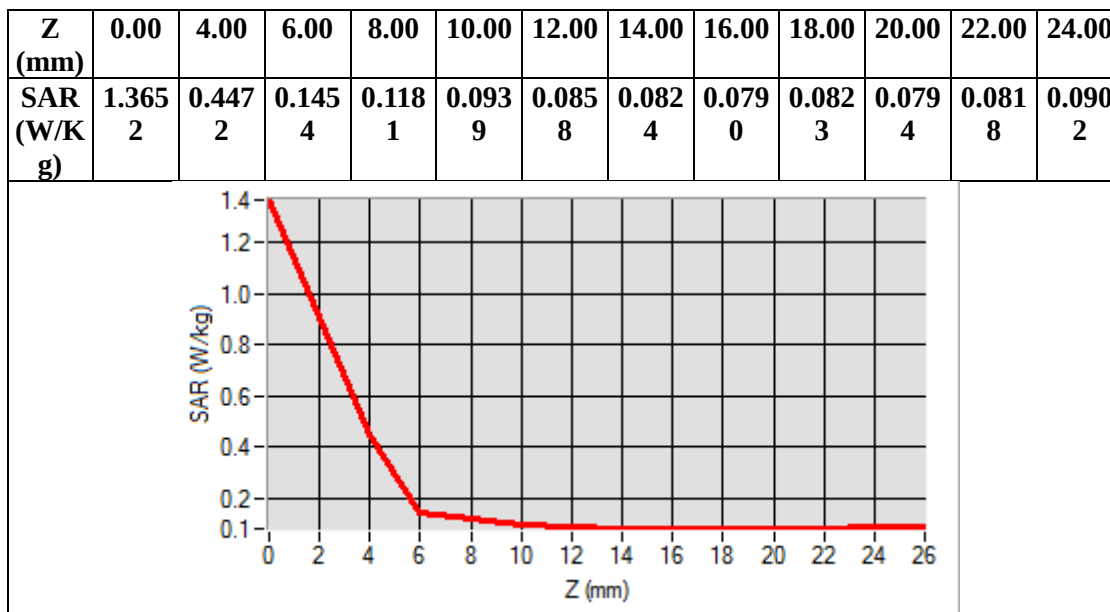
SAR 10g (W/Kg)	0.190847
SAR 1g (W/Kg)	0.433957

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5.3GHz 802.11a

Test Laboratory: AGC Lab

802.11a CH60-Edge 4 (Left)

DUT: Body Worn Camera; Type: KS4

Date: Dec. 14, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.35;
Frequency: 5300MHz; Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.91 \text{ mho/m}$; $\epsilon_r = 36.59$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section

Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

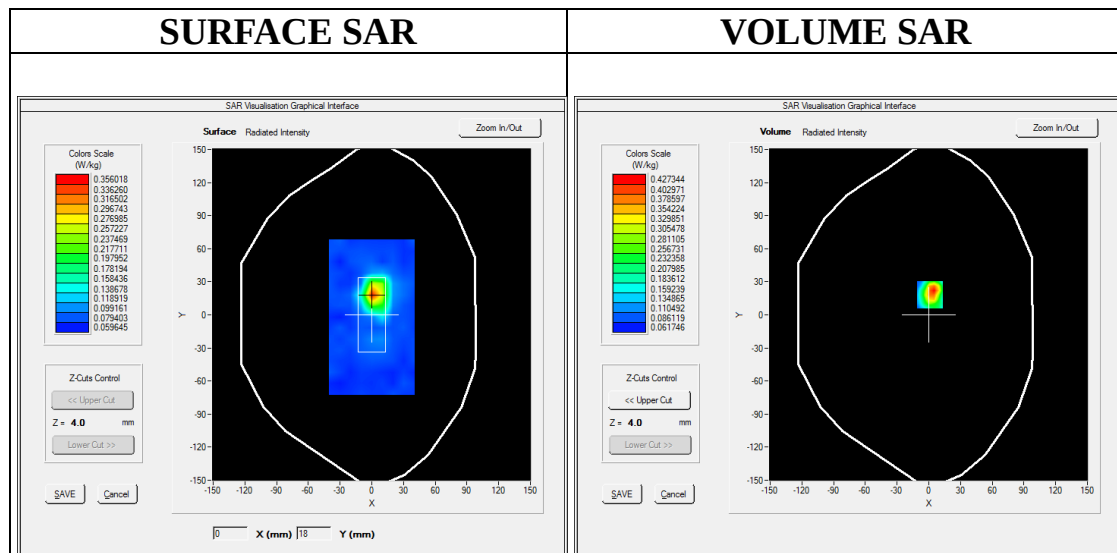
SATIMO Configuration:

- 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_32

Configuration/802.11a CH60- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11a CH60- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Edge 4 (Left)
Band	5300MHz
Channels	CH60
Signal	Crest factor: 1.0



Maximum location: X=1.00, Y=18.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.179378
SAR 1g (W/Kg)	0.406846

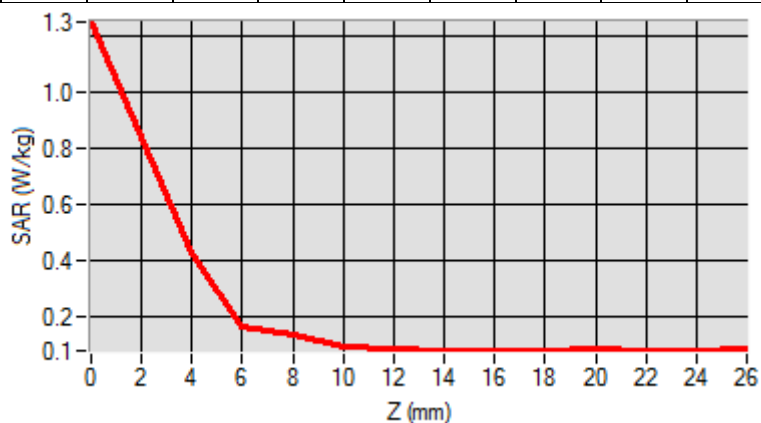
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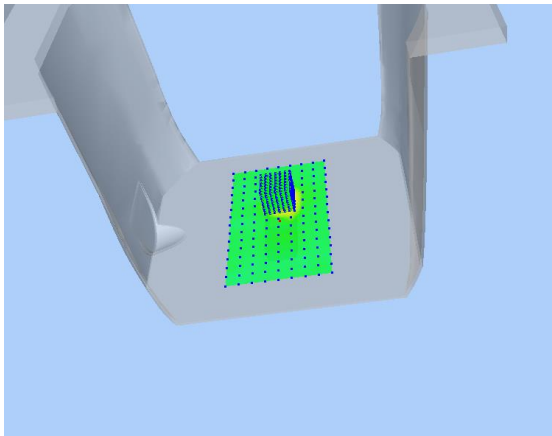
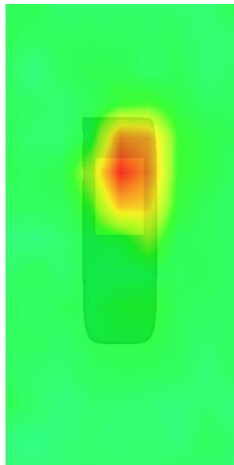
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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.2528	0.4273	0.1575	0.1336	0.0860	0.0817	0.0759	0.0756	0.0779	0.0785	0.0745	0.0760



3D screen shot	Hot spot position
	

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5.6GHz 802.11a

Test Laboratory: AGC Lab

802.11a CH120-Edge 4 (Left)

DUT: Body Worn Camera; Type: KS4

Date: Dec. 15, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.51;
Frequency: 5600MHz; Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.14 \text{ mho/m}$; $\epsilon_r = 36.55$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.0

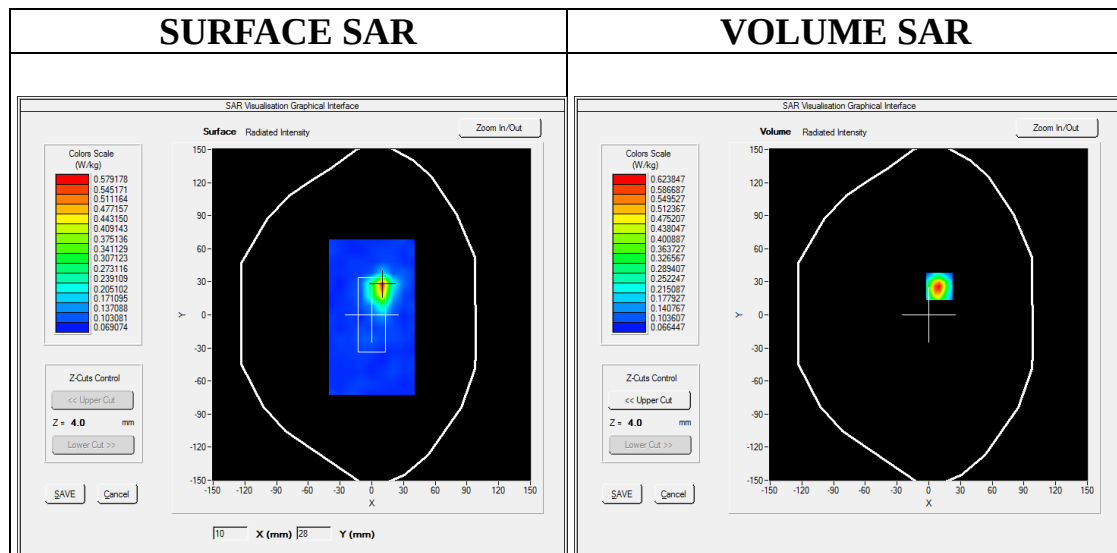
SATIMO Configuration:

- 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_32

Configuration/802.11a CH120- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11a CH120- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Edge 4 (Left)
Band	5600MHz
Channels	CH120
Signal	Crest factor: 1.0



Maximum location: X=10.00, Y=26.00

SAR Peak: 1.74 W/kg

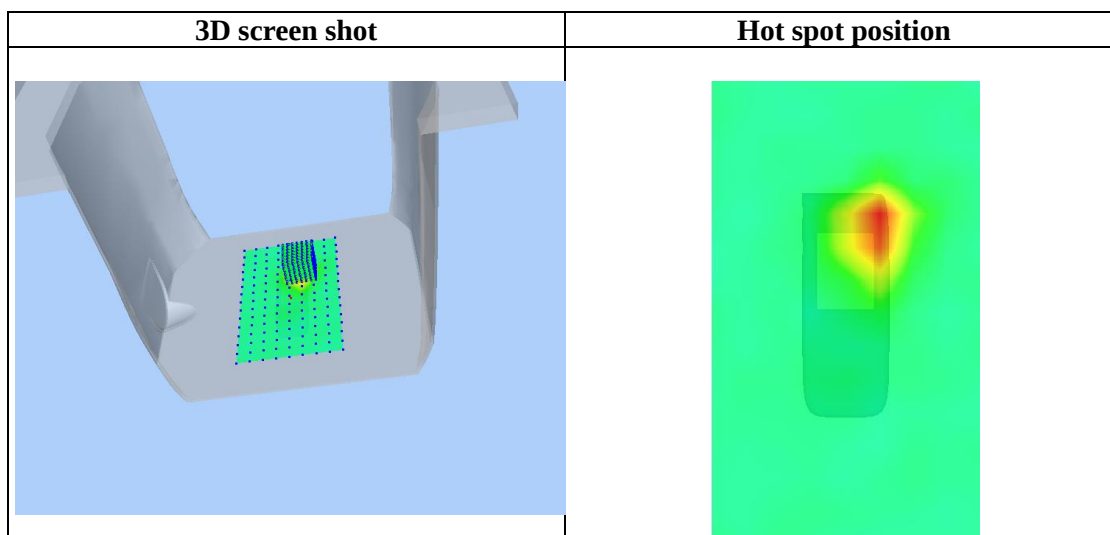
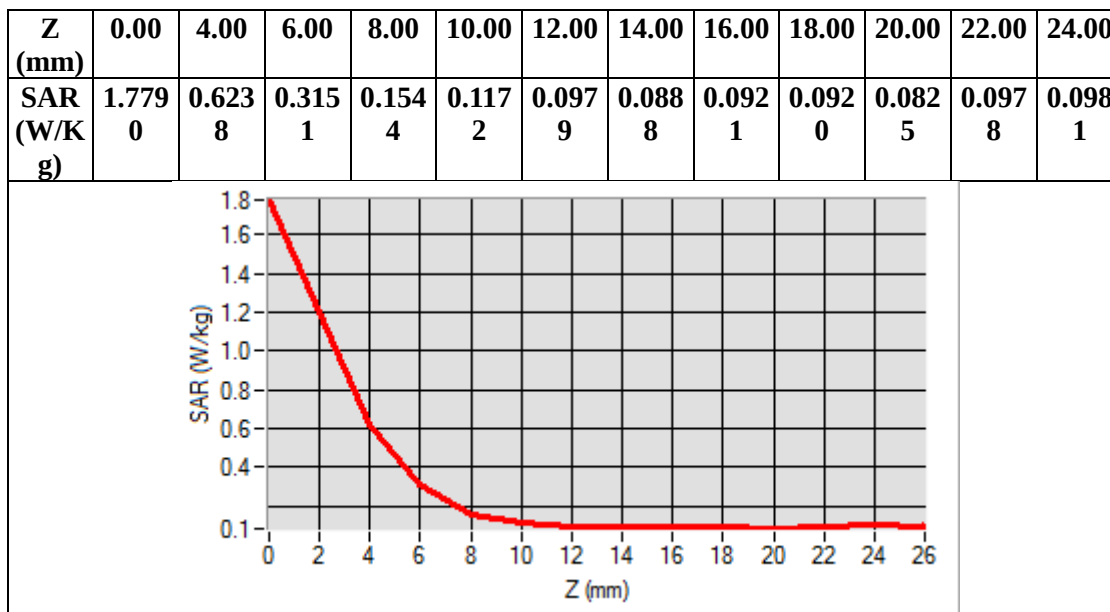
SAR 10g (W/Kg)	0.238225
SAR 1g (W/Kg)	0.611061

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5.8GHz 802.11a

Test Laboratory: AGC Lab

802.11a CH157-Edge 4 (Left)

DUT: Body Worn Camera; Type: KS4

Date: Dec. 16, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41;
Frequency: 5785MHz; Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.23 \text{ mho/m}$; $\epsilon_r = 36.78$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section

Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.3

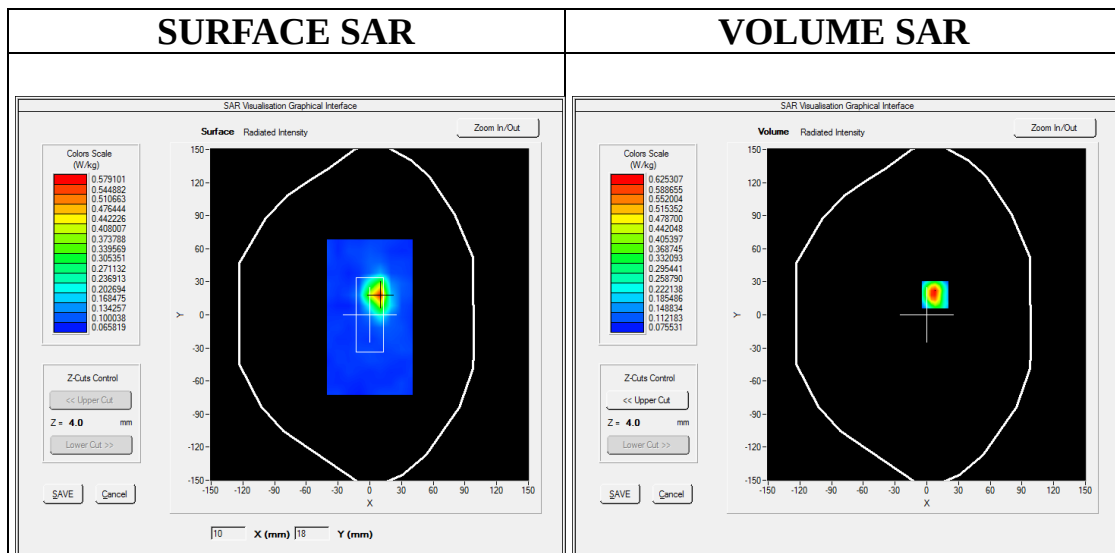
SATIMO Configuration:

- 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_32

Configuration/ 802.11a CH157- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ 802.11a CH157- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Edge 4 (Left)
Band	5800MHz
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=8.00, Y=18.00

SAR Peak: 1.80 W/kg

SAR 10g (W/Kg)	0.247242
SAR 1g (W/Kg)	0.630747

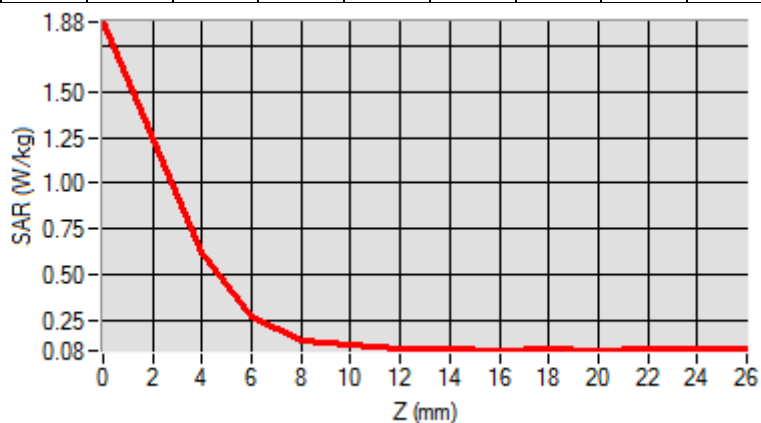
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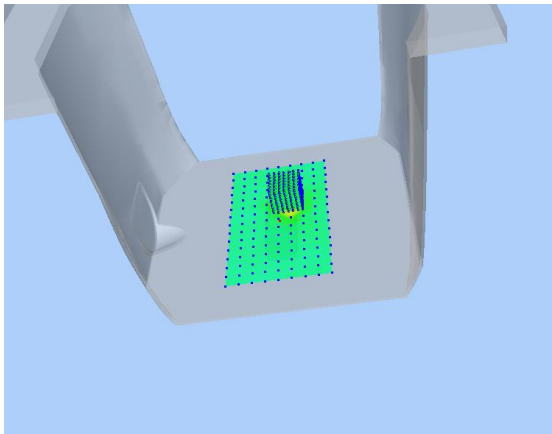
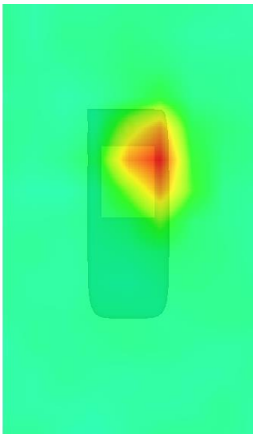
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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.8828	0.6253	0.2698	0.1379	0.1098	0.0957	0.0897	0.0820	0.0914	0.0874	0.0919	0.0928



3D screen shot	Hot spot position
	

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Repeated SAR

Test Laboratory: AGC Lab

WCDMA Band II Mid-Edge 3(RMC)

DUT: Body Worn Camera; Type: KS4

Date: Dec. 12, 2023

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; $\sigma = 1.35$ mho/m; $\epsilon_r = 40.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

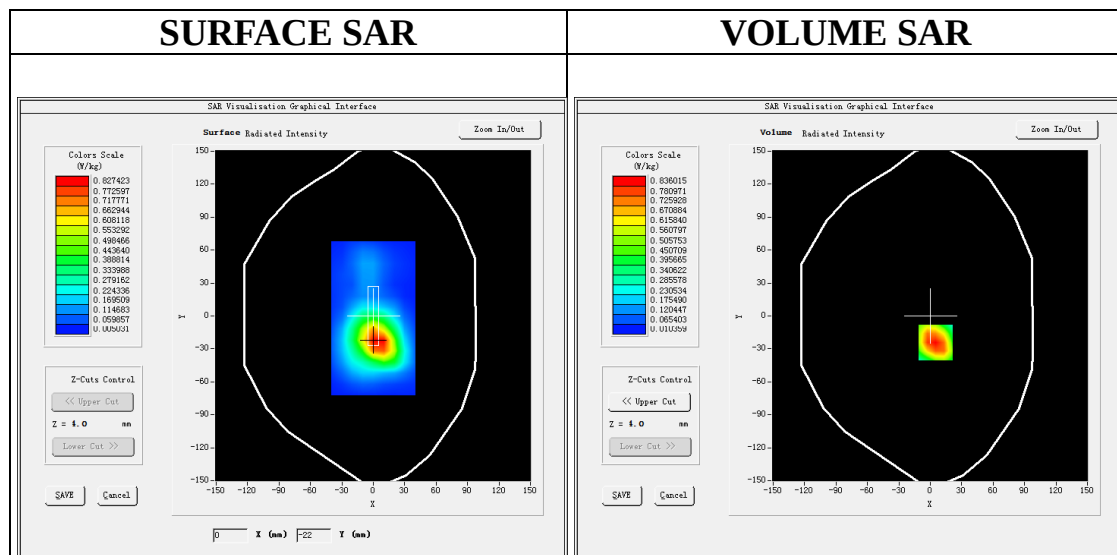
SATIMO Configuration:

- 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_32

Configuration/ WCDMA band II Mid-Edge 3/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA band II Mid-Edge 3/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	Edge 3
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=5.00, Y=-24.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.457554
SAR 1g (W/Kg)	0.801941

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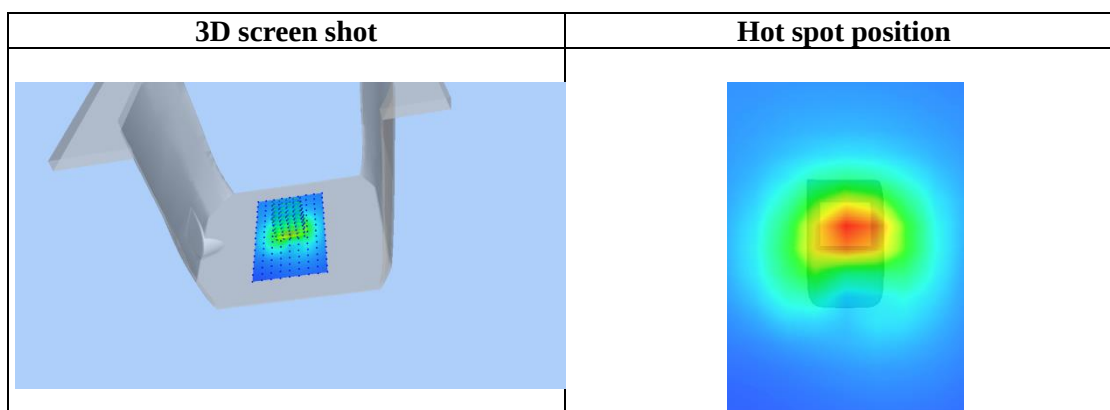
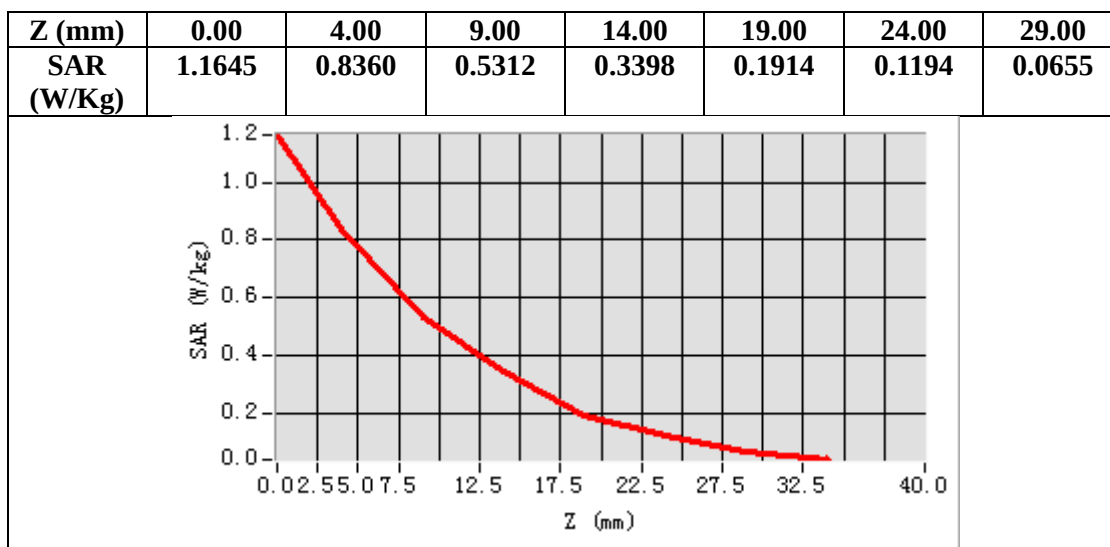
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Test Laboratory: AGC Lab
WCDMA Band IV High- Edge 3(Bottom) (RMC)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 08, 2023

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17;
Frequency:1752.6 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.60$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

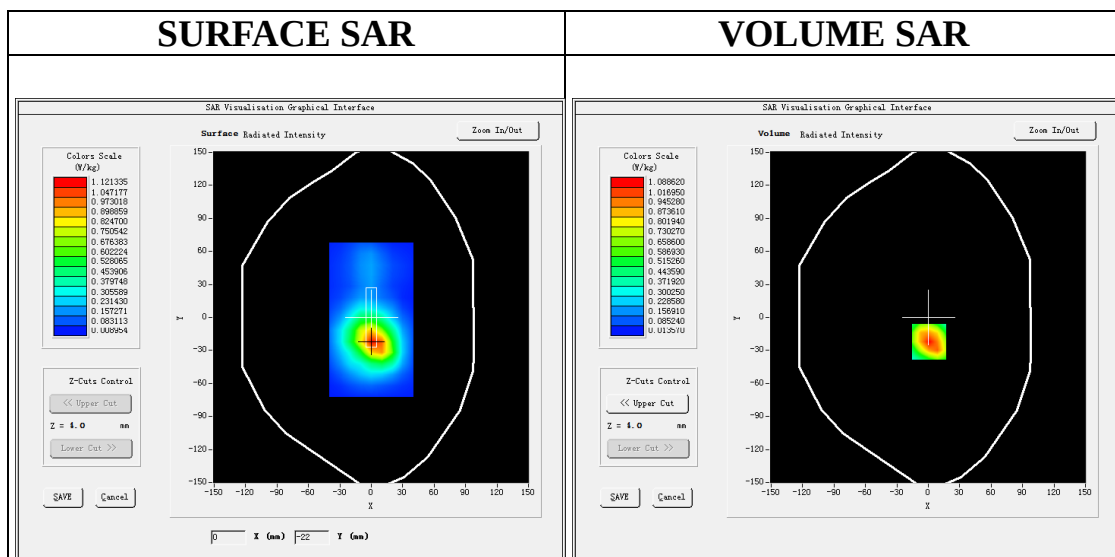
Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

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_32

Configuration/ WCDMA Band IV High- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV High- Edge 3(Bottom)/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	Edge 3(Bottom)
Band	WCDMA Band IV
Channels	High
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=1.00, Y=-22.00

SAR Peak: 1.62 W/kg

SAR 10g (W/Kg)	0.576268
SAR 1g (W/Kg)	1.012004

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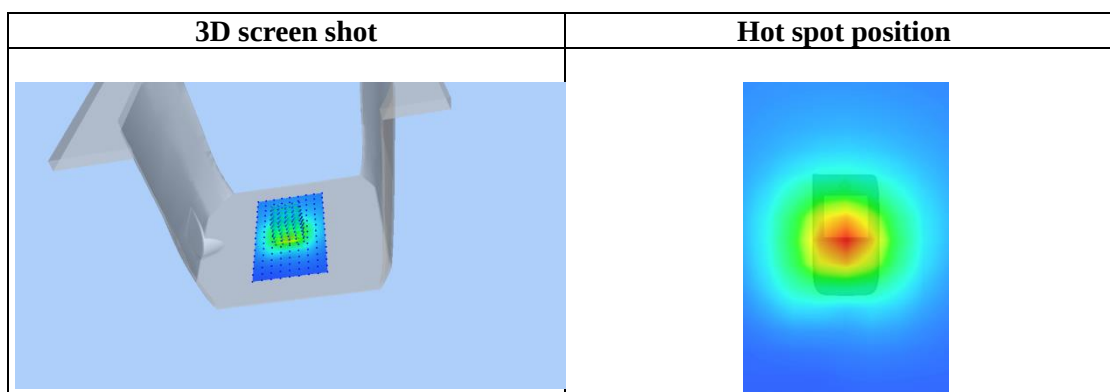
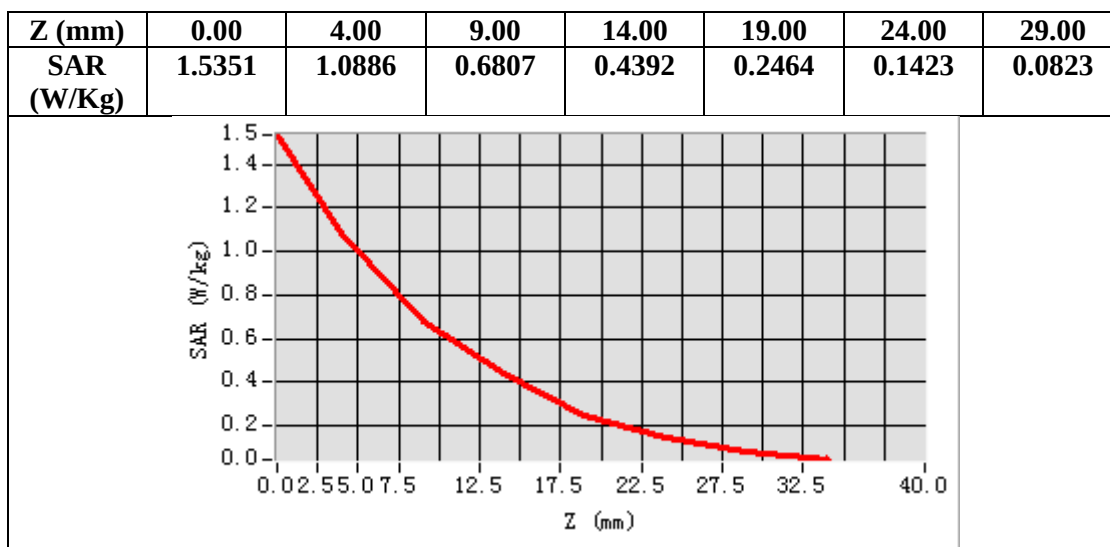
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Test Laboratory: AGC Lab
LTE Band 2 High- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 12, 2023

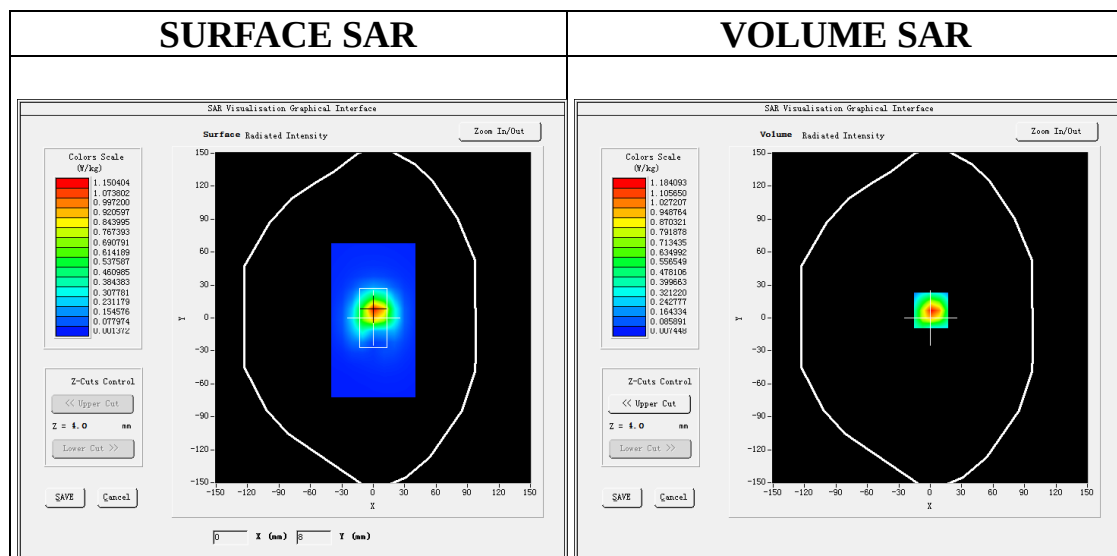
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;
Frequency:1900MHz; Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.44$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.5

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_32

Configuration/ LTE Band 2 High - Edge 3(Bottom) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 High - Edge 3(Bottom) /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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 2
Channels	High
Signal	OFDM (Crest factor: 1.0)



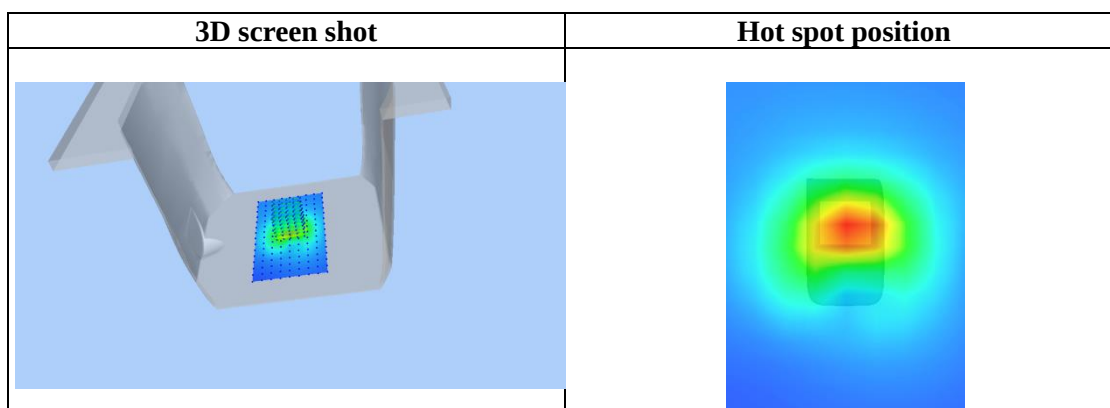
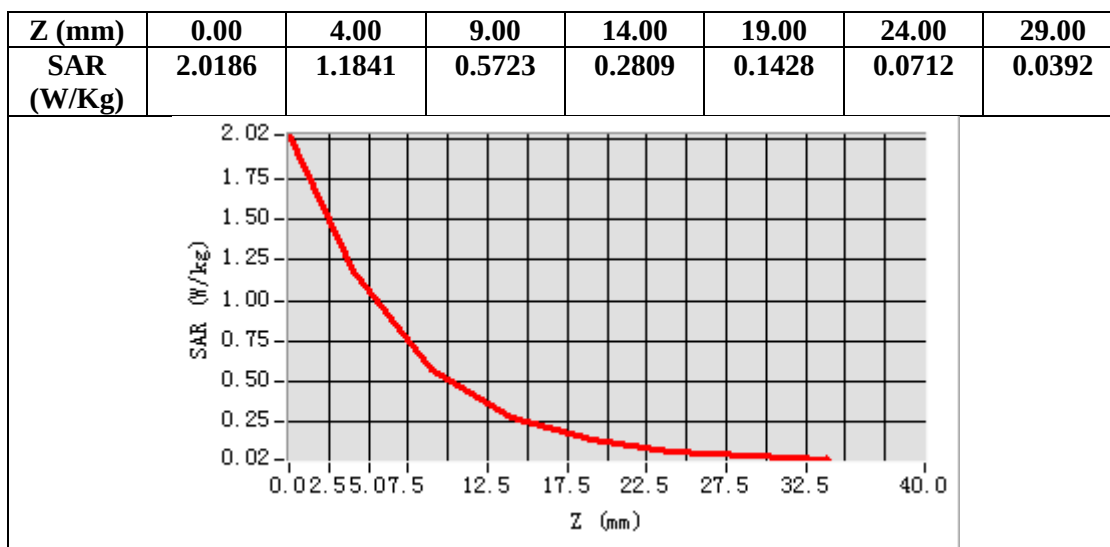
Maximum location: X=1.00, Y=7.00

SAR Peak: 2.06 W/kg

SAR 10g (W/Kg)	0.494332
SAR 1g (W/Kg)	1.111249

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Test Laboratory: AGC Lab
LTE Band 4 High- Edge 3(Bottom) (1 RB#0)
DUT: Body Worn Camera; Type: KS4

Date: Dec. 08, 2023

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;
Frequency:1745 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.2, Liquid temperature (°C): 20.0

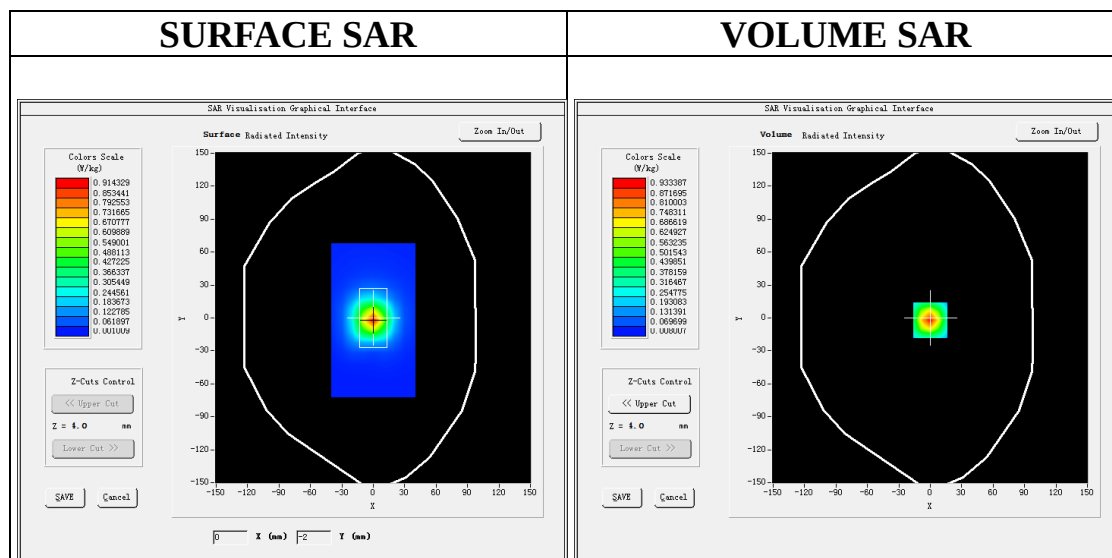
SATIMO Configuration:

- 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_32

Configuration/ LTE Band 4 High- Edge 3(Bottom)/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 4 High- Edge 3(Bottom)/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
Phantom	Validation plane
Device Position	Edge 3(Bottom)
Band	LTE Band 4
Channels	High
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=0.00, Y=-2.00

SAR Peak: 1.55 W/kg

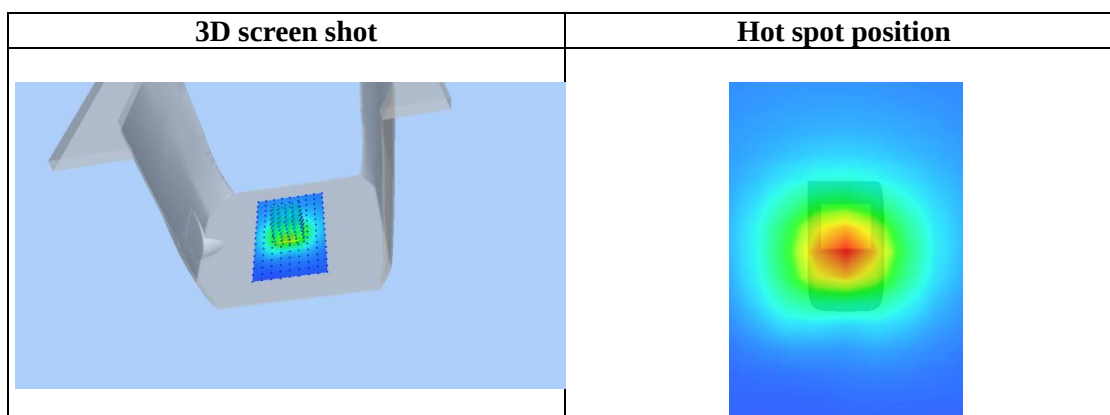
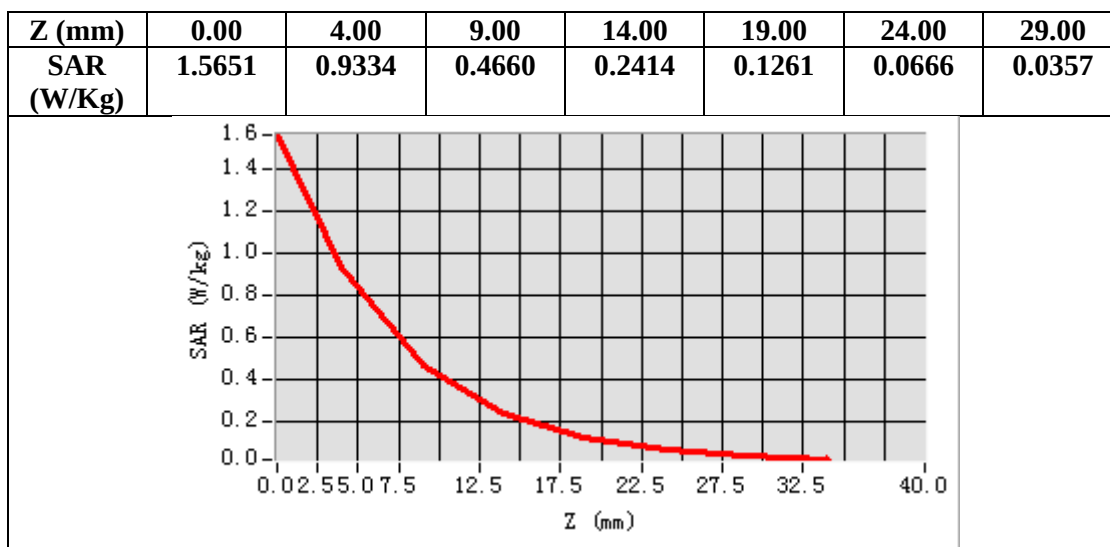
SAR 10g (W/Kg)	0.400627
SAR 1g (W/Kg)	0.858823

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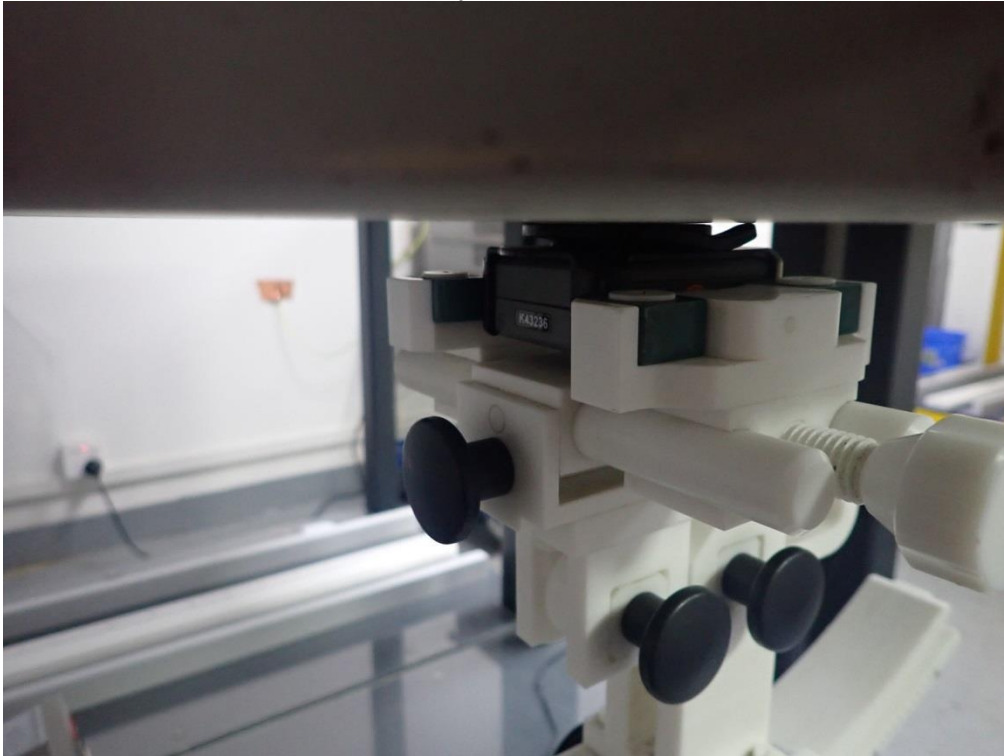
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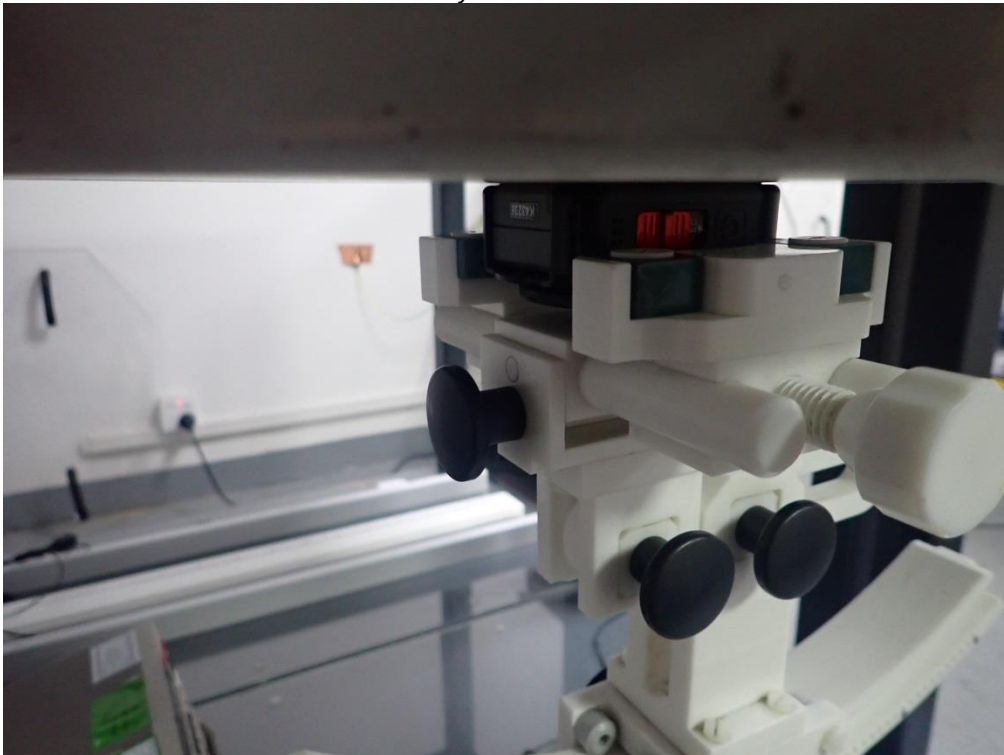
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APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm



Body Front 0mm



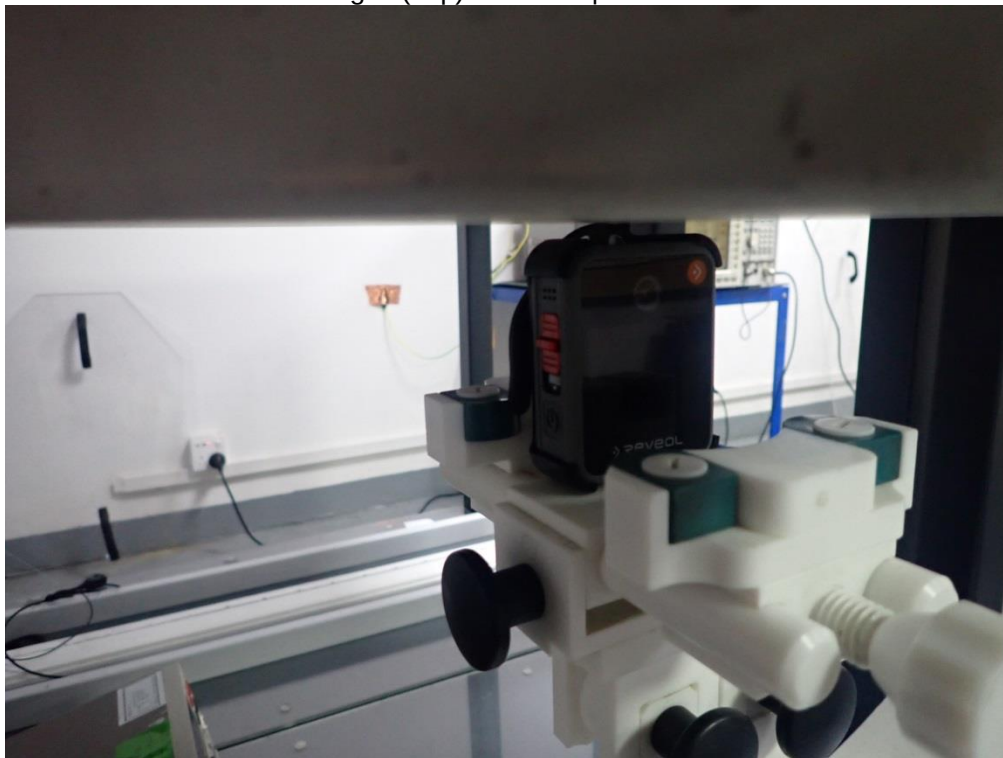
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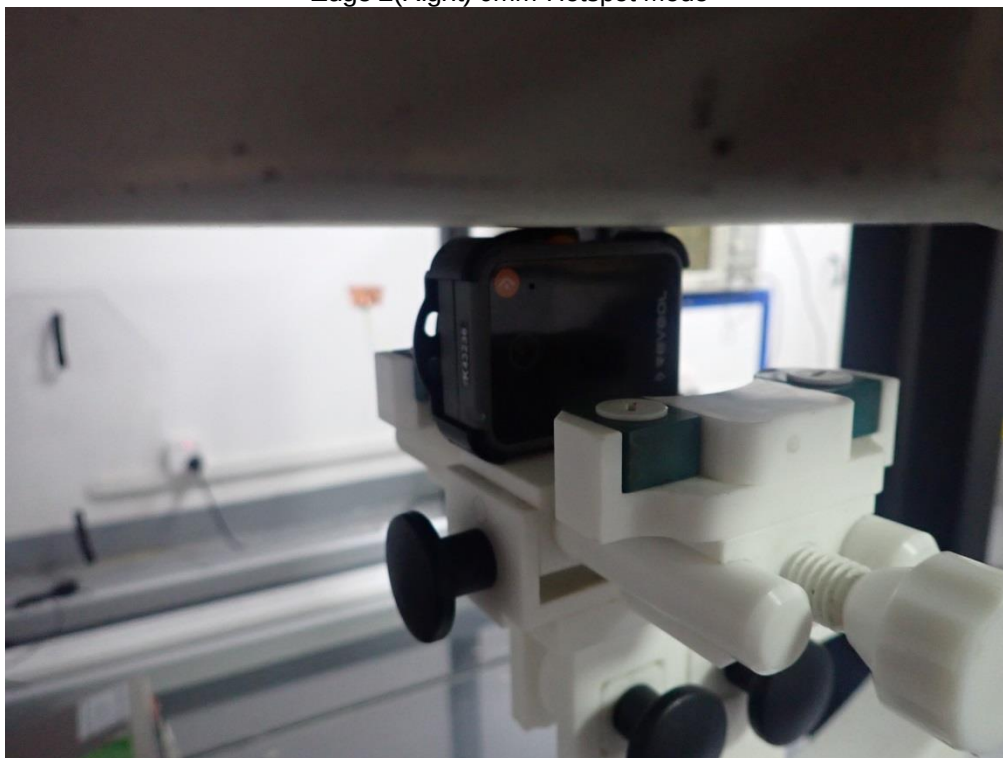
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Edge 1(Top) 0mm-Hotspot Mode



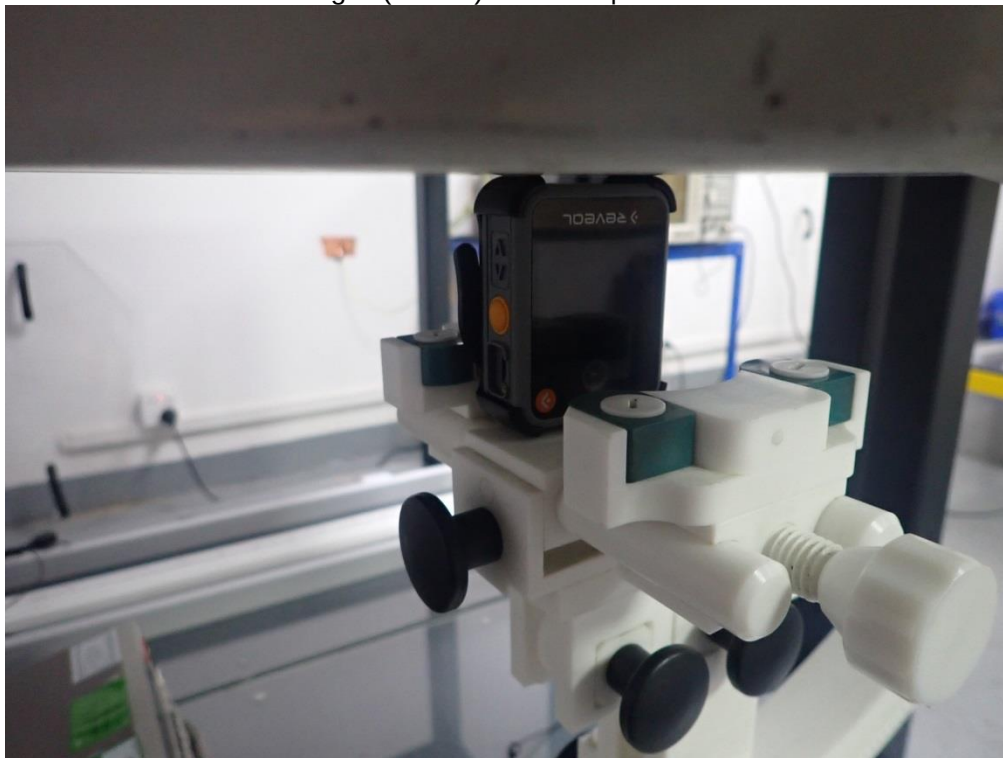
Edge 2(Right) 0mm-Hotspot Mode



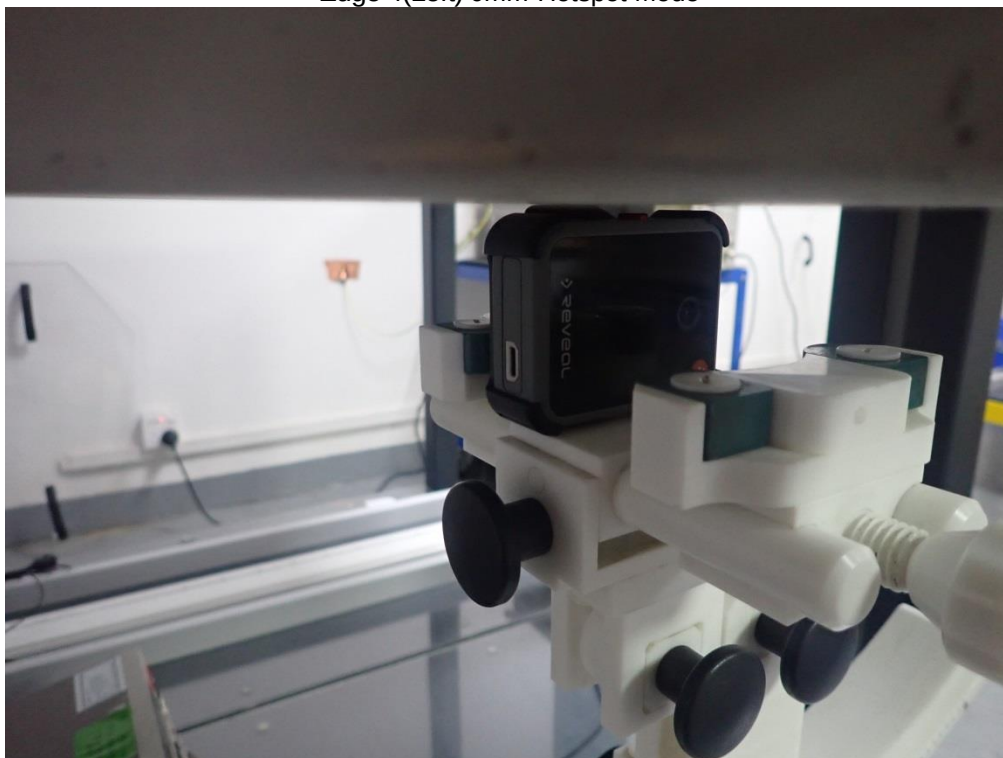
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Edge 3(Bottom) 0mm-Hotspot Mode



Edge 4(Left) 0mm-Hotspot Mode



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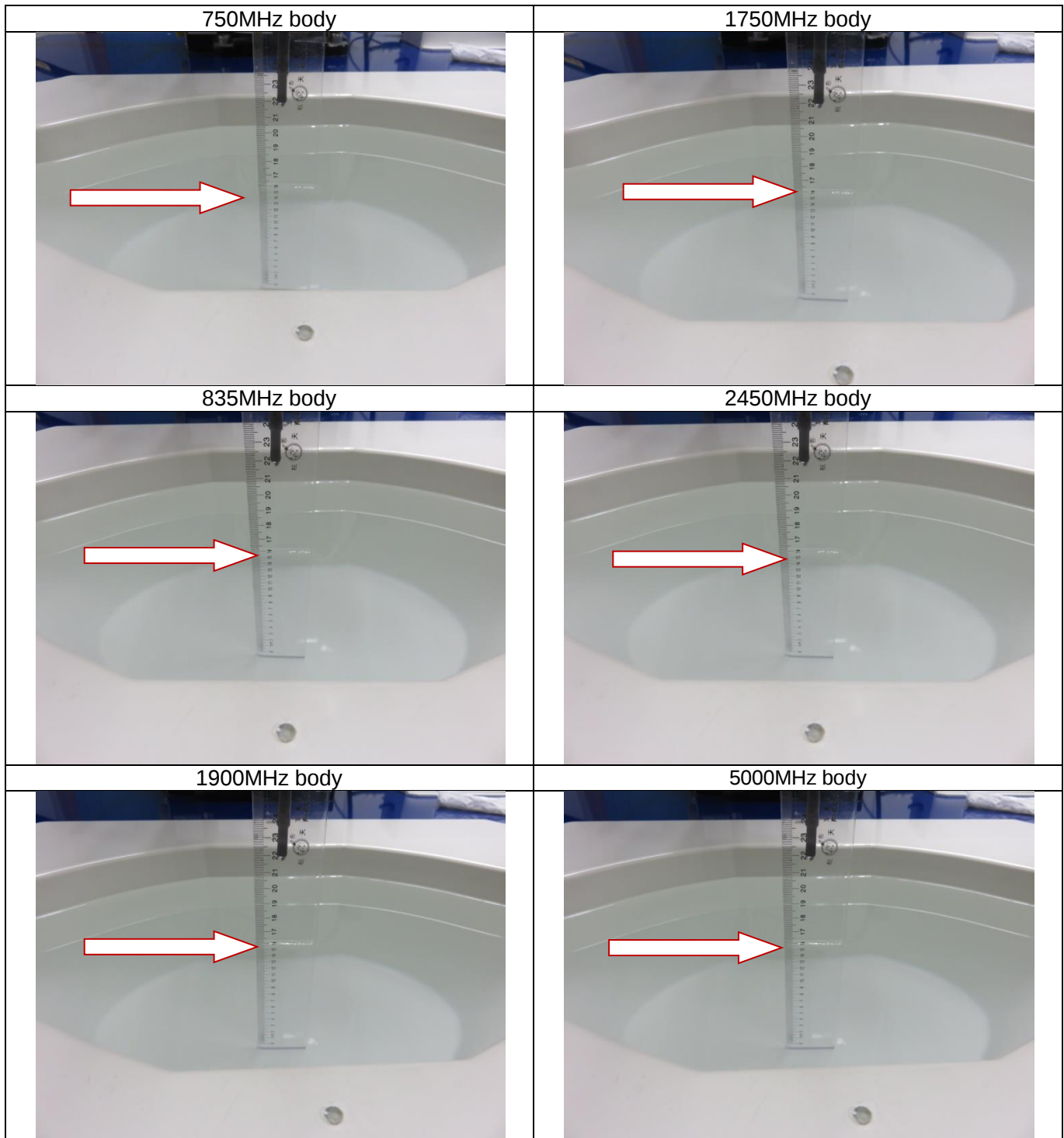
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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2013



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

-----END OF REPORT-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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