SAR Test Report

Report No.: AGC01689241119FH01

FCC ID	:	2A2UU-B1796
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	POS Terminal
BRAND NAME	:	Kozen
MODEL NAME	:	P3
APPLICANT	:	Shanghai Xiangcheng Communication Technology Co.,Ltd
DATE OF ISSUE	:	Apr. 09, 2025
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2019
REPORT VERSION	:	V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 09, 2025	Valid	Initial Release

Test Report

Applicant Name	Shanghai Xiangcheng Communication Technology Co.,Ltd
Applicant Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China
Manufacturer Name	Sichuan Xiangcheng Intelligent Technology Co.,Ltd.
Manufacturer Address	Factory No. 2 and 7 Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province China
Factory Name	Sichuan Xiangcheng Intelligent Technology Co.,Ltd.
Factory Address	Factory No. 2 and 7 Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province China
Product Designation	POS Terminal
Brand Name	Kozen
Model Name	P3
Series Model	N/A
Declaration Difference	N/A
EUT Voltage	DC7.4V
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2019
Date of receipt of test item	Nov. 18, 2025
Test Date	Jan. 15, 2025 to Jan. 23, 2025
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.

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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 5mm separation)	Hotspot(with 5mm separation)	
GSM 850	0.339	0.339	1.6
PCS 1900	0.333	0.333	
UMTS Band II	0.385	0.385	
UMTS Band IV	0.286	0.286	
UMTS Band V	0.224	0.224	
LTE Band 2	0.417	0.417	
LTE Band 4	0.250	0.250	
LTE Band 5	0.279	0.279	
LTE Band 7	1.189	1.189	
LTE Band 12	0.238	0.238	
LTE Band 17	0.251	0.251	
LTE Band 25	0.483	0.483	
LTE Band 26a	0.223	0.223	
LTE Band 26b	0.204	0.204	
LTE Band 38	0.535	0.535	
LTE Band 41	0.546	0.546	
WIFI 2.4G	0.135	0.135	
5.2GHz (U-NII-1)	0.196	0.196	
5.3GHz (U-NII-2A)	0.195	0.195	
5.8GHz (U-NII-3)	0.256	0.256	
Simultaneous Reported SAR	1.445		
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

2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	POS Terminal
Test Model	P3
Sample ID	241114077
Hardware Version	V1.0A
Software Version	b1796_kozen_combo_202408061611
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	PIFA Antenna
GSM and GPRS& EGPRS	
Support Band	☒GSM 850 ☒PCS 1900 (US Frequency) ☒GSM 900 ☒DCS 1800 (none US Frequency)
GPRS & EGPRS Type	Class B
GPRS & EGPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850 : 820-850MHz; PCS 1900: 1850-1910MHz;
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: -2.25dBi; PCS1900: 4.1dBi
Max. Average Power	GSM850: 32.27dBm; PCS1900: 29.23dBm
WCDMA	
Support Band	☒UMTS FDD Band II ☒UMTS FDD Band V ☒UMTS FDD Band IV (US Frequency) ☒UMTS FDD Band I ☐UMTS FDD Band III ☒UMTS FDD Band VIII (none US Frequency)
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Release 6 and later
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 4.1dBi; Band IV: 6.51dBi; Band V: -2.25dBi
Max. Average Power	Band II: 22.28dBm; Band IV: 22.11dBm; Band V: 22.41dBm
Bluetooth	
Bluetooth Version	☒V4.0
Operation Frequency	2402~2480MHz
Type of modulation	☒GFSK ☒Π/4-DQPSK ☒8-DPSK
Peak Power	7.366dBm
Antenna Gain	0.12dBi
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: 16.85dBm,11g:14.75dBm,11n(20):13.11dBm,11n(40):12.87dBm
Antenna Gain	0.12dBi

EUT Description(Continue)

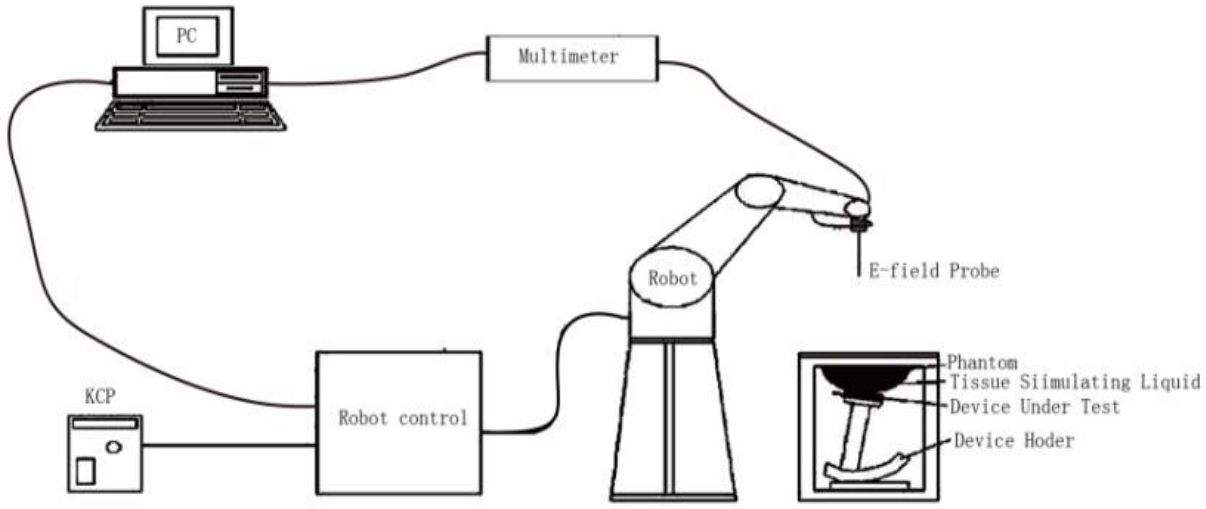
LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 7 ☒FDD Band 12 ☐FDD Band 13 ☐FDD Band 14 ☒FDD Band 17 ☒FDD Band 25 ☒FDD Band 26 ☒TDD Band 38 ☐TDD Band 40 ☒TDD Band 41 ☐FDD Band 66 ☐FDD Band 71
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 12:699-716MHz; Band 17: 704-716MHz; Band 25: 1850-1915MHz; Band 26a: 824-849MHz; Band 26b: 814-824MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 12: 729-746 MHz; Band 17: 734-746 MHz; Band 25: 1930-1995MHz; Band 26a: 869-894MHz; Band 26b: 859-869MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 4.1dBi; Band 4: 6.51dBi; Band 5: -2.25dBi; Band 7: 0.95dBi; Band 12: -2.57dBi; Band 17: -2.57dBi; Band 25: 4.1dBi; Band 26a: -2.25dBi; Band 26b: -2.32dBi; Band 38: 2.10dBi; Band 41: 2.1dBi;
Max. Average Power	Band 2: 22.77dBm; Band 4: 22.68dBm; Band 5: 23.13dBm; Band 7:23.03dBm; Band 12: 23.35dBm; Band 17: 23.22dBm; Band 25: 22.69dBm; Band 26a: 22.96dBm; Band 26b: 22.97dBm; Band 38: 23.40 dBm; Band 41: 23.26dBm;
5 GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40 ☒802.11ac20 ☒802.11ac40 ☐802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 13.89dBm; U-NII-2A: 13.63dBm; U-NII-3: 12.91dBm
Antenna Gain	U-NII Band 1: 3.38dBi; U-NII Band 2A: 4.05dBi; U-NII·Band 3: 3.88dBi
Accessories	
Battery	Brand name: N/A Model No. : B1791 Voltage and Capacitance: 7.4 V & 2600mAh
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

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.

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.

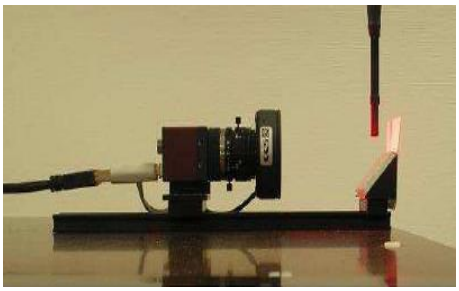
Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.08dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.08dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

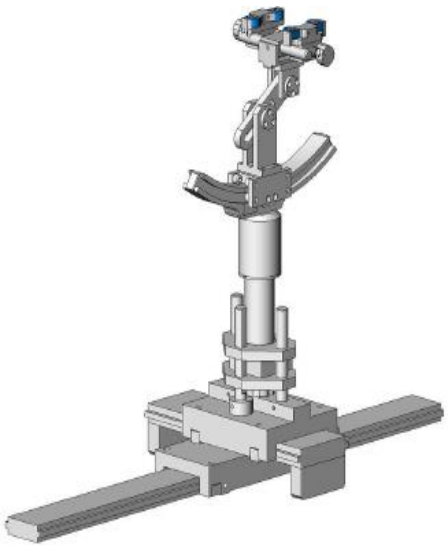
3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used. The XL robot series have many features that are important for our application: □ High precision (repeatability 0.02 mm) □ High reliability (industrial design) □ Jerk-free straight movements □ Low ELF interference (the closed metallic construction shields against motor control fields) □ 6-axis controller	

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 εr =3 and loss tangent δ = 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.

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:

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

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

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{dT}{dt} \mid t = 0$	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 os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ 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 abd 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}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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

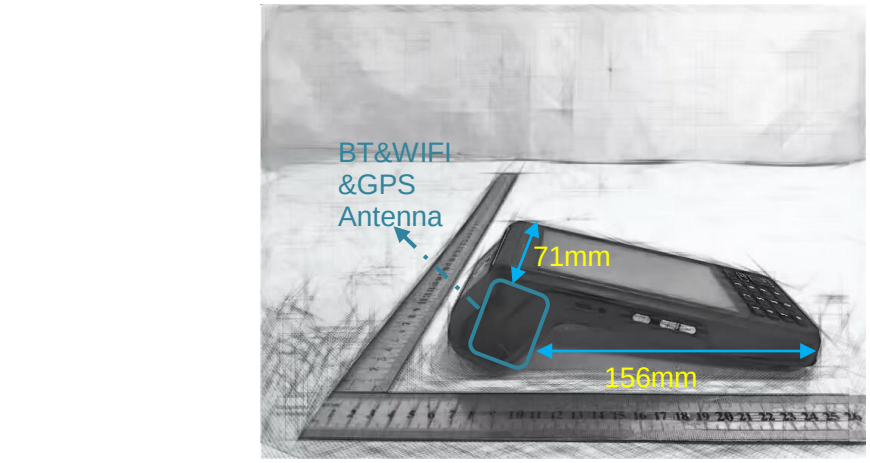
Test Configuration and setting:

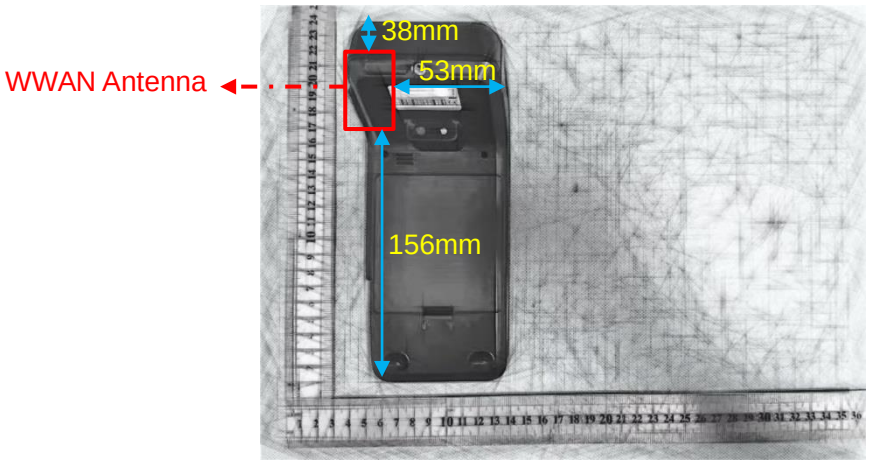
The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, WCDMA/HSPA, LTE, BT, WIFI, and support hot spot mode.

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

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

Antenna Location:





For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	30mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	8mm	Yes	--
Edge 3 (Bottom)	156mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	53mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	23mm	Yes	--
Edge 2 (Right)	71mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	156mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	12mm	Yes	--

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 5% are listed in 5.2

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
2600 Head	55.242	0.306	0	44.452	0	0	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	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**

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3

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					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89(0.8455-0.9345)		
Head	707.5	43.09	0.87	20.5	Jan. 21, 2025
	710	42.86	0.89		
	750	42.45	0.91		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	819	43.73	0.88	20.5	Jan. 20, 2025
	835	41.27	0.91		
	836.4	40.87	0.92		
	836.5	40.87	0.92		
	836.6	40.87	0.92		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 40.1 (38.095-42.105)	δ[s/m]1.37(1.3015-1.439)		
Head	1732.4	40.43	1.36	20.4	Jan. 23, 2025
	1732.5	40.43	1.36		
	1750	39.14	1.38		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
Head	1880	40.68	1.32	20.7	Jan. 22, 2025
	1882.5	39.86	1.34		
	1900	39.18	1.36		

Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39.2(37.24-41.16)	δ[s/m]1.80(1.71-1.89)		
	2437	39.61	1.75	20.0	Jan. 15, 2025
	2450	38.89	1.78		

Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39(37.05-40.95)	δ[s/m]1.96(1.86-2.06)		
	2510	40.70	1.88	20.0	Jan. 15, 2025
	2535	40.26	1.91		
	2593	39.88	1.93		
	2595	39.62	1.95		
	2560	39.06	1.97		
	2600	38.77	1.98		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 36.0(34.105-37.695)	δ[s/m] 4.66(4.427-4.893)		
	5200	35.25	4.58	19.8	Jan. 16, 2025

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 35.9(34.105-37.695)	δ[s/m] 4.76(4.522-4.998)		
	5300	35.73	4.63	20.6	Jan. 18, 2025

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 35.3 (33.535-37.065)	δ[s/m] 5.27 (5.0065-5.5335)		
	5785	35.69	5.17	20.7	Jan. 17, 2025
	5800	34.57	5.19		

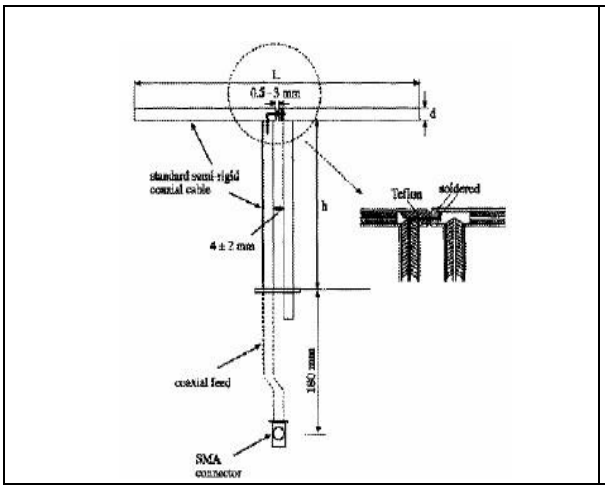
6. SAR SYSTEM CHECK PROCEDURE

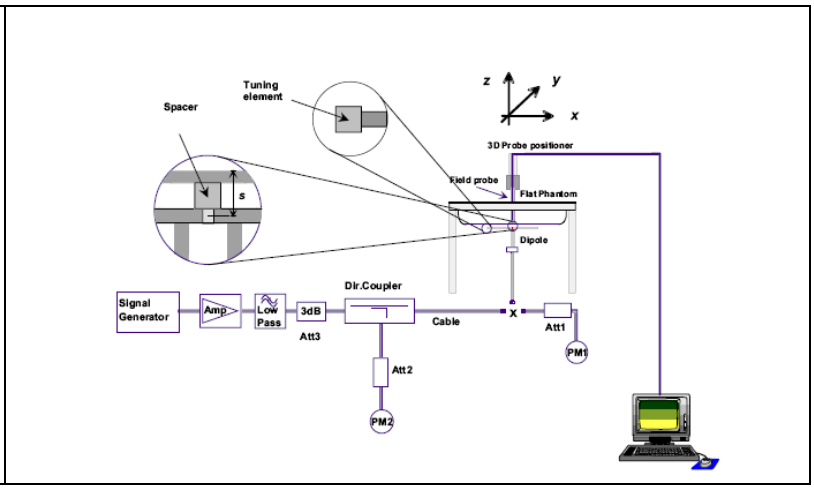
6.1. SAR System Check Procedures

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.

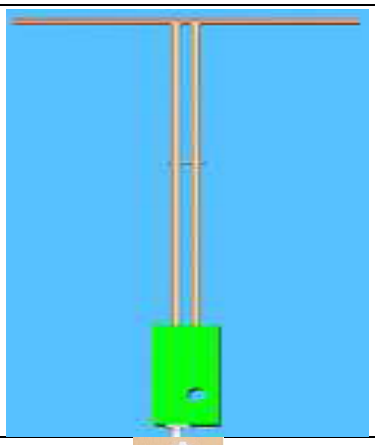
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.





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
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6
5000MHz	20.6	40.3	3.6

6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &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 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 (± 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	8.43	5.94	20.5	Jan. 21, 2025
835	9.67	6.14	8.703-10.637	5.526-6.754	8.86	6.26	20.5	Jan. 20, 2025
1800	37.76	19.60	33.984-41.536	17.640-21.560	34.69	17.93	20.4	Jan. 23, 2025
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.83	21.27	20.7	Jan. 22, 2025
2450	54.32	24.25	48.888-59.752	21.825-26.675	53.57	24.29	20.0	Jan. 15, 2025
2600	54.94	23.77	49.446-60.434	21.393-26.147	55.91	25.11	20.0	Jan. 15, 2025
5200	73.43	21.83	66.087-80.773	19.647-24.013	68.90	22.40	19.8	Jan. 16, 2025
5200	73.43	21.83	66.087-80.773	19.647-24.013	73.90	25.10	20.6	Jan. 18, 2025
5800	75.69	22.44	68.121-83.259	20.196-24.684	73.30	23.60	20.7	Jan. 17, 2025

Note:
(1) We use a CW signal of 18dBm//15dBm/10dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within ±10% of target value.

7. EUT TEST POSITION

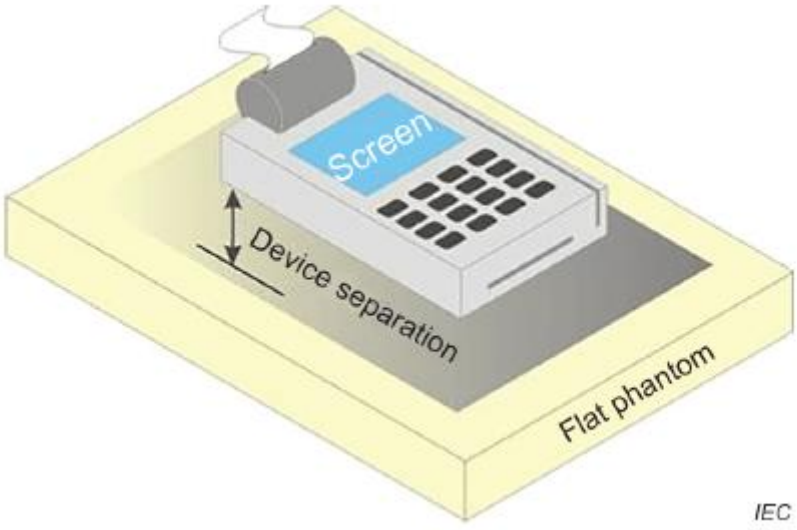
This EUT was tested in **Body back, Body front and 4 edges.**

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 **5mm.**



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

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

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	Apr. 30, 2024	Apr. 29, 2025
Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46200384	N/A	May 28, 2024	May 27, 2025
Comm Tester	R&S- CMW500	121209	V3.7.40	May 23, 2024	May 22, 2025
Multimeter	Keithley 2000	4114939	N/A	May 24, 2024	May 23, 2025
SAR Software	MVG-OpenSAR	N/A	V5.3.15.8	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	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	May 24, 2024	May 23, 2025
EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	May 28, 2024	May 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Jul. 24, 2024	Jul. 23, 2025
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 06, 2024	June 05, 2025
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 06, 2024	June 05, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	104604	N/A	May 24, 2024	May 23, 2025
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 04, 2025
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. 08, 2024	Nov. 07, 2025
Thermometer	DigiMate/TP677	3811930452	N/A	June 06, 2024	June 05, 2025

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.

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	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	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	R	$\sqrt{3}$	0.78	0.71	3.120	2.840	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.526	10.341	
Expanded Uncertainty (95% Confidence interval)			K=2				21.052	20.682	

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	0.090	R	$\sqrt{3}$	1	1	0.052	0.052	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
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	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	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	1	0.84	1.90	1.60	∞
Liquid conductivity（temperature uncertainty）	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity（measured）	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity（temperature uncertainty）	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity（measured）	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty			RSS				10.459	10.272	
Expanded Uncertainty (95% Confidence interval)			K=2				20.917	20.545	

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	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
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	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	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	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	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	

12. CONDUCTED POWER MEASUREMENT

GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 850	824.2	32.25	-9	23.25
	836.6	32.19	-9	23.19
	848.8	32.14	-9	23.14
GPRS 850 （1 Slot）	824.2	**32.27**	-9	23.27
	836.6	32.15	-9	23.15
	848.8	32.10	-9	23.10
GPRS 850 （2 Slot）	824.2	31.63	-6	25.63
	836.6	31.56	-6	25.56
	848.8	31.53	-6	25.53
GPRS 850 （3 Slot）	824.2	29.99	-4.26	25.73
	836.6	29.93	-4.26	25.67
	848.8	29.95	-4.26	25.69
GPRS 850 （4 Slot）	824.2	28.86	-3	**25.86**
	836.6	28.82	-3	25.82
	848.8	28.83	-3	25.83
EGPRS 850 （1 Slot）	824.2	26.64	-9	17.64
	836.6	26.50	-9	17.50
	848.8	26.57	-9	17.57
EGPRS 850 （2 Slot）	824.2	25.45	-6	19.45
	836.6	25.54	-6	19.54
	848.8	25.66	-6	19.66
EGPRS 850 （3 Slot）	824.2	23.21	-4.26	18.95
	836.6	23.26	-4.26	19.00
	848.8	23.52	-4.26	19.26
EGPRS 850 （4 Slot）	824.2	21.98	-3	18.98
	836.6	22.06	-3	19.06
	848.8	22.15	-3	19.15

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GSM 850	824.2	32.07	-9	23.07
	836.6	31.45	-9	22.45
	848.8	31.58	-9	22.58
GPRS 850 （1 Slot）	824.2	31.72	-9	22.72
	836.6	32.01	-9	23.01
	848.8	32.09	-9	23.09
GPRS 850 （2 Slot）	824.2	31.22	-6	25.22
	836.6	31.00	-6	25.00
	848.8	30.97	-6	24.97
GPRS 850 （3 Slot）	824.2	29.56	-4.26	25.30
	836.6	29.52	-4.26	25.26
	848.8	29.46	-4.26	25.20
GPRS 850 （4 Slot）	824.2	28.04	-3	25.04
	836.6	28.74	-3	25.74
	848.8	27.93	-3	24.93

GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	29.20	-9	20.20
	1880	28.74	-9	19.74
	1909.8	28.67	-9	19.67
GPRS1900 （1 Slot）	1850.2	**29.23**	-9	20.23
	1880	28.72	-9	19.72
	1909.8	28.63	-9	19.63
GPRS1900 （2 Slot）	1850.2	28.52	-6	22.52
	1880	28.06	-6	22.06
	1909.8	28.00	-6	22.00
GPRS1900 （3 Slot）	1850.2	26.78	-4.26	22.52
	1880	26.38	-4.26	22.12
	1909.8	26.36	-4.26	22.10
GPRS1900 （4 Slot）	1850.2	25.72	-3	**22.72**
	1880	25.32	-3	22.32
	1909.8	25.32	-3	22.32
EGPRS1900 （1 Slot）	1850.2	25.46	-9	16.46
	1880	25.74	-9	16.74
	1909.8	26.33	-9	17.33
EGPRS1900 （2 Slot）	1850.2	24.22	-6	18.22
	1880	24.66	-6	18.66
	1909.8	25.37	-6	19.37
EGPRS1900 （3 Slot）	1850.2	22.05	-4.26	17.79
	1880	22.51	-4.26	18.25
	1909.8	23.20	-4.26	18.94
EGPRS1900 （4 Slot）	1850.2	20.61	-3	17.61
	1880	21.25	-3	18.25
	1909.8	21.92	-3	18.92

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
PCS1900	1850.2	28.32	-9	19.32
	1880	27.98	-9	18.98
	1909.8	28.04	-9	19.04
GPRS1900 （1 Slot）	1850.2	28.50	-9	19.50
	1880	27.84	-9	18.84
	1909.8	28.24	-9	19.24
GPRS1900 （2 Slot）	1850.2	27.75	-6	21.75
	1880	27.08	-6	21.08
	1909.8	27.45	-6	21.45
GPRS1900 （3 Slot）	1850.2	26.44	-4.26	22.18
	1880	26.36	-4.26	22.10
	1909.8	26.35	-4.26	22.09
GPRS1900 （4 Slot）	1850.2	24.93	-3	21.93
	1880	24.35	-3	21.35
	1909.8	25.26	-3	22.26

Note 1:
The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:
Frame Power = Max burst power (1 Up Slot) – 9 dB
Frame Power = Max burst power (2 Up Slot) – 6 dB
Frame Power = Max burst power (3 Up Slot) – 4.26 dB
Frame Power = Max burst power (4 Up Slot) – 3 dB
Note 2:
SAR is not required for GPRS (1 Slot) Mode because its output power is less than of Voice Mode

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(βc and βd) 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	βc (Note5)	βd	βd (SF)	βc/βd	βHS (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, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_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 ΔNACK = 30/15 with β_{hs} = 30/15 * β_c , and ΔCQI = 24/15 with β_{hs} = 24/15 * β_c .
Note 3: CM = 1 for βc/βd =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 (βc and βd) 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	βc	βd	βd (SF)	βc/βd	βHS (Note 1)	βec	βed (Note 4) (Note 5)	βed (SF)	βed (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
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	βed1: 47/15 βed2: 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, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, ΔACK, ΔNACK and ΔCQI = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for βc/βd =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: βed 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	22.19
	1880	22.16
	1907.6	**22.28**
HSDPA Subtest 1	1852.4	21.30
	1880	20.72
	1907.6	20.65
HSDPA Subtest 2	1852.4	20.61
	1880	21.23
	1907.6	20.72
HSDPA Subtest 3	1852.4	20.70
	1880	20.64
	1907.6	21.35
HSDPA Subtest 4	1852.4	20.78
	1880	20.81
	1907.6	20.79
HSUPA Subtest 1	1852.4	19.18
	1880	19.16
	1907.6	20.15
HSUPA Subtest 2	1852.4	18.71
	1880	20.10
	1907.6	19.16
HSUPA Subtest 3	1852.4	19.16
	1880	20.14
	1907.6	18.69
HSUPA Subtest 4	1852.4	20.09
	1880	19.27
	1907.6	19.26
HSUPA Subtest 5	1852.4	20.29
	1880	18.80
	1907.6	20.26

UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	**22.11**
	1732.4	21.97
	1752.6	21.93
HSDPA Subtest 1	1712.4	21.19
	1732.4	20.63
	1752.6	20.67
HSDPA Subtest 2	1712.4	20.67
	1732.4	21.09
	1752.6	20.54
HSDPA Subtest 3	1712.4	20.56
	1732.4	20.45
	1752.6	21.09
HSDPA Subtest 4	1712.4	20.53
	1732.4	20.46
	1752.6	20.53
HSUPA Subtest 1	1712.4	19.18
	1732.4	19.18
	1752.6	20.19
HSUPA Subtest 2	1712.4	18.72
	1732.4	20.15
	1752.6	19.01
HSUPA Subtest 3	1712.4	18.98
	1732.4	20.02
	1752.6	18.61
HSUPA Subtest 4	1712.4	20.05
	1732.4	19.05
	1752.6	19.03
HSUPA Subtest 5	1712.4	20.08
	1732.4	18.60
	1752.6	19.99

UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	22.34
	836.4	22.38
	846.6	**22.41**
HSDPA Subtest 1	826.4	21.45
	836.4	20.89
	846.6	20.96
HSDPA Subtest 2	826.4	20.93
	836.4	21.47
	846.6	20.92
HSDPA Subtest 3	826.4	20.82
	836.4	20.91
	846.6	21.54
HSDPA Subtest 4	826.4	20.96
	836.4	20.98
	846.6	20.94
HSUPA Subtest 1	826.4	19.45
	836.4	19.41
	846.6	20.44
HSUPA Subtest 2	826.4	19.03
	836.4	20.42
	846.6	19.40
HSUPA Subtest 3	826.4	19.37
	836.4	20.41
	846.6	18.94
HSUPA Subtest 4	826.4	20.39
	836.4	19.48
	846.6	19.45
HSUPA Subtest 5	826.4	20.45
	836.4	18.99
	846.6	20.46

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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d=12/15, β_{hs}/β_c=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

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

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

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

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

LTE Band

LTE (TDD) Considerations

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

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

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

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

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

Table 4.2-2: Uplink-downlink configurations

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

Calculated Duty Cycle

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

Note： Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U
Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
Ts = 1/(15000 x 2048) seconds

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	22.40	22.46	22.60
			3	0	22.53	22.64	**22.77**
			5	0	22.40	22.44	22.57
		3	0	0	22.43	22.54	22.67
			2	0	22.43	22.56	22.65
			3	0	22.45	22.58	22.64
		6	0	1	21.43	21.44	21.68
	16QAM	1	0	1	21.15	21.14	21.40
			3	1	21.26	21.17	21.63
			5	1	21.10	21.16	21.43
		3	0	1	21.23	21.32	21.43
			2	1	21.25	21.31	21.46
			3	1	21.26	21.33	21.43
		6	0	2	20.23	20.41	20.61
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					18615	**18900**	**19185**
3MHz	QPSK	1	0	0	22.46	22.47	22.56
			7	0	22.41	22.49	22.55
			14	0	22.40	22.48	22.56
		8	0	1	21.43	21.46	21.57
			4	1	21.38	21.41	21.54
			7	1	21.41	21.41	21.53
		15	0	1	21.37	21.39	21.53
	16QAM	1	0	1	21.36	21.29	21.24
			7	1	21.39	21.30	21.27
			14	1	21.39	21.27	21.30
		8	0	2	20.39	20.36	20.50
			4	2	20.37	20.39	20.51
			7	2	20.35	20.35	20.44
		15	0	2	20.32	20.27	20.39

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	22.41	22.38	22.53
			13	0	22.52	22.52	22.68
			24	0	22.42	22.36	22.52
		12	0	1	21.46	21.43	21.52
			6	1	21.45	21.41	21.53
			13	1	21.46	21.41	21.53
		25	0	1	21.43	21.41	21.56
	16QAM	1	0	1	21.29	21.41	21.41
			13	1	21.41	21.54	21.53
			24	1	21.31	21.39	21.36
		12	0	2	20.37	20.48	20.55
			6	2	20.40	20.47	20.51
			13	2	20.37	20.47	20.47
		25	0	2	20.40	20.41	20.52
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	22.42	22.40	22.57
			25	0	22.49	22.61	22.59
			49	0	22.38	22.46	22.56
		25	0	1	21.50	21.49	21.60
			13	1	21.48	21.48	21.60
			25	1	21.49	21.42	21.59
		50	0	1	21.46	21.39	21.60
	16QAM	1	0	1	21.36	21.21	21.26
			25	1	21.57	21.36	21.39
			49	1	21.39	21.22	21.22
		25	0	2	20.42	20.49	20.60
			13	2	20.42	20.49	20.60
			25	2	20.44	20.43	20.61
		50	0	2	20.39	20.45	20.59

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18675	Channel 18900	Channel 19125
15MHz	QPSK	1	0	0	22.31	22.22	22.41
			38	0	22.43	22.39	22.63
			74	0	22.36	22.31	22.49
		36	0	1	21.54	21.48	21.63
			18	1	21.48	21.53	21.63
			39	1	21.51	21.53	21.64
		75	0	1	21.48	21.50	21.68
	16QAM	1	0	1	21.30	21.32	21.16
			38	1	21.41	21.50	21.34
			74	1	21.33	21.39	21.18
		36	0	2	21.48	21.48	21.64
			18	2	21.50	21.48	21.67
			39	2	21.51	21.50	21.64
		75	0	2	20.41	20.42	20.60
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	22.21	22.11	22.16
			50	0	22.50	22.61	22.67
			99	0	22.24	22.26	22.27
		50	0	1	21.34	21.37	21.34
			25	1	21.34	21.42	21.45
			50	1	21.46	21.41	21.55
		100	0	1	21.41	21.39	21.42
	16QAM	1	0	1	21.03	21.27	20.99
			50	1	21.47	21.65	21.45
			99	1	21.14	21.37	21.12
		50	0	2	20.30	20.38	20.43
			25	2	20.32	20.40	20.43
			50	2	20.42	20.37	20.59
		100	0	2	20.38	20.36	20.48

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	22.46	22.44	22.31
			3	0	22.59	22.53	22.55
			5	0	22.45	22.47	22.35
		3	0	0	22.59	22.50	22.42
			2	0	22.58	22.50	22.40
			3	0	22.58	22.59	22.44
		6	0	1	21.49	21.45	21.41
	16QAM	1	0	1	21.39	21.21	21.15
			3	1	21.54	21.36	21.24
			5	1	21.40	21.22	21.10
		3	0	1	21.41	21.40	21.16
			2	1	21.44	21.33	21.21
			3	1	21.36	21.36	21.18
		6	0	2	20.51	20.35	20.37
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	22.61	22.47	22.54
			7	0	22.61	22.51	22.52
			14	0	22.66	22.56	22.50
		8	0	1	21.55	21.46	21.46
			4	1	21.53	21.50	21.48
			7	1	21.56	21.45	21.54
		15	0	1	21.55	21.43	21.45
	16QAM	1	0	1	21.60	21.43	21.23
			7	1	21.60	21.39	21.30
			14	1	21.60	21.32	21.28
		8	0	2	20.60	20.52	20.50
			4	2	20.60	20.53	20.48
			7	2	20.63	20.46	20.49
		15	0	2	20.57	20.49	20.43

Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19975	Channel 20175	Channel 20375
5MHz	QPSK	1	0	0	22.54	22.41	22.47
			13	0	22.64	22.57	22.59
			24	0	22.50	22.39	22.43
		12	0	1	21.48	21.46	21.52
			6	1	21.48	21.52	21.53
			13	1	21.53	21.47	21.49
		25	0	1	21.59	21.48	21.49
	16QAM	1	0	1	21.45	21.50	21.28
			13	1	21.56	21.58	21.44
			24	1	21.43	21.52	21.35
		12	0	2	20.53	20.60	20.55
			6	2	20.57	20.51	20.55
			13	2	20.59	20.59	20.57
		25	0	2	20.69	20.52	20.60
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	0	22.50	22.47	22.40
			25	0	22.60	22.63	22.63
			49	0	22.53	22.44	22.45
		25	0	1	21.56	21.50	21.51
			13	1	21.57	21.52	21.50
			25	1	21.66	21.42	21.53
		50	0	1	21.57	21.47	21.51
	16QAM	1	0	1	21.54	21.33	21.18
			25	1	21.58	21.49	21.33
			49	1	21.55	21.33	21.21
		25	0	2	20.59	20.59	20.63
			13	2	20.57	20.53	20.59
			25	2	20.66	20.51	20.59
		50	0	2	20.65	20.54	20.61

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	22.42	22.35	22.42
			38	0	22.51	22.47	22.57
			74	0	22.46	22.32	22.42
		36	0	1	21.57	21.48	21.52
			18	1	21.53	21.51	21.52
			39	1	21.58	21.51	21.53
		75	0	1	21.50	21.52	21.50
	16QAM	1	0	1	21.44	21.41	21.18
			38	1	21.53	21.56	21.34
			74	1	21.43	21.51	21.17
		36	0	2	21.57	21.52	21.48
			18	2	21.53	21.50	21.48
			39	2	21.46	21.51	21.49
		75	0	2	20.58	20.57	20.52
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20050	**20175**	**20300**
20MHz	QPSK	1	0	0	22.32	22.25	22.20
			50	0	**22.68**	22.66	22.51
			99	0	22.30	22.31	22.25
		50	0	1	21.50	21.52	21.51
			25	1	21.45	21.54	21.51
			50	1	21.58	21.43	21.57
		100	0	1	21.53	21.49	21.46
	16QAM	1	0	1	21.18	21.35	20.94
			50	1	21.57	21.76	21.32
			99	1	21.20	21.44	21.05
		50	0	2	20.52	20.59	20.61
			25	2	20.52	20.64	20.66
			50	2	20.69	20.61	20.64
		100	0	2	20.62	20.51	20.60

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	22.85	22.93	22.76
			3	0	23.03	23.04	22.95
			5	0	22.88	23.01	22.77
		3	0	0	22.92	23.02	22.86
			2	0	22.93	23.00	22.84
			3	0	22.94	23.02	22.82
		6	0	1	21.95	21.93	21.80
	16QAM	1	0	1	21.74	21.78	21.64
			3	1	21.85	21.89	21.77
			5	1	21.73	21.75	21.58
		3	0	1	21.72	21.86	21.65
			2	1	21.72	21.86	21.61
			3	1	21.76	21.86	21.58
		6	0	2	20.94	20.77	20.76
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	22.91	22.96	22.84
			7	0	22.92	23.01	22.81
			14	0	22.95	22.99	22.80
		8	0	1	21.92	21.89	21.82
			4	1	21.90	21.88	21.84
			7	1	21.96	21.88	21.82
		15	0	1	21.89	21.90	21.81
	16QAM	1	0	1	21.83	21.82	21.83
			7	1	21.90	21.75	21.75
			14	1	21.91	21.71	21.76
		8	0	2	20.94	20.83	20.85
			4	2	20.94	20.85	20.80
			7	2	20.87	20.89	20.79
		15	0	2	20.93	20.79	20.82

Conducted Power of LTE Band 5(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20425**	**Channel 20525**	**Channel 20625**
5MHz	QPSK	1	0	0	22.89	22.85	22.81
			13	0	23.02	23.03	22.91
			24	0	22.93	22.90	22.81
		12	0	1	21.84	21.89	21.86
			6	1	21.88	21.91	21.84
			13	1	21.86	21.93	21.81
		25	0	1	21.93	21.91	21.87
	16QAM	1	0	1	21.77	21.88	21.72
			13	1	21.93	22.04	21.88
			24	1	21.82	21.91	21.67
		12	0	2	20.90	20.95	20.88
			6	2	20.89	20.93	20.82
			13	2	20.88	21.00	20.78
		25	0	2	20.89	20.84	20.87
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20450**	**Channel 20525**	**Channel 20600**
10MHz	QPSK	1	0	0	22.87	22.96	22.83
			25	0	23.01	**23.13**	23.00
			49	0	22.90	22.86	22.80
		25	0	1	21.97	21.98	21.91
			13	1	22.01	21.96	21.90
			25	1	21.98	21.94	21.90
		50	0	1	21.98	21.91	21.93
	16QAM	1	0	1	21.84	21.77	21.83
			25	1	21.96	21.93	21.98
			49	1	21.94	21.64	21.80
		25	0	2	20.94	20.99	20.90
			13	2	20.95	20.97	20.88
			25	2	20.95	20.96	20.88
		50	0	2	20.95	20.95	20.91

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20775	**21100**	**21425**
5MHz	QPSK	1	0	0	22.83	22.82	22.81
			12	0	22.87	22.93	22.66
			24	0	22.88	22.84	22.65
		12	0	1	21.71	21.74	21.50
			6	1	21.72	21.77	21.55
			13	1	21.77	21.32	21.56
		25	0	1	21.76	21.47	21.51
	16QAM	1	0	1	21.59	21.86	21.32
			12	1	21.71	21.94	21.48
			24	1	21.71	21.82	21.44
		12	0	2	20.68	20.57	20.54
			6	2	20.65	20.79	20.54
			13	2	20.70	20.31	20.55
		25	0	2	20.76	20.65	20.57
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20800	**21100**	**21400**
10MHz	QPSK	1	0	0	22.71	22.88	**23.03**
			24	0	22.78	22.97	22.95
			49	0	22.65	22.85	22.60
		25	0	1	21.63	21.78	21.42
			12	1	21.75	21.88	21.46
			25	1	21.75	21.88	21.72
		50	0	1	21.81	21.88	21.49
	16QAM	1	0	1	21.71	21.69	21.21
			24	1	21.95	21.84	21.35
			49	1	21.59	21.58	21.33
		25	0	2	20.61	20.84	20.45
			12	2	20.59	20.88	20.46
			25	2	20.72	20.82	20.54
		50	0	2	20.76	20.83	20.41

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20825	**21100**	**21375**
15MHz	QPSK	1	0	0	22.23	22.30	22.40
			37	0	22.44	22.47	22.59
			74	0	22.34	22.30	22.62
		37	0	1	21.40	21.50	21.59
			16	1	21.40	21.46	21.53
			35	1	21.39	21.46	21.51
		75	0	1	21.41	21.44	21.57
	16QAM	1	0	1	21.17	21.37	21.15
			37	1	21.42	21.52	21.30
			74	1	21.34	21.41	21.26
		37	0	2	21.39	21.41	21.55
			16	2	21.40	21.43	21.56
			35	2	21.40	21.45	21.54
		75	0	2	20.36	20.45	20.53
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20850	**21100**	**21350**
20MHz	QPSK	1	0	0	22.06	22.17	22.19
			49	0	22.53	22.59	22.61
			99	0	22.23	22.28	22.37
		50	0	1	21.18	21.29	21.37
			25	1	21.14	21.35	21.41
			49	1	21.30	21.34	21.47
		100	0	1	21.27	21.30	21.48
	16QAM	1	0	1	20.83	21.12	20.92
			49	1	21.33	21.60	21.46
			99	1	21.06	21.28	21.14
		50	0	2	20.18	20.30	20.39
			25	2	20.16	20.34	20.42
			49	2	20.32	20.29	20.54
		100	0	2	20.23	20.28	20.46

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	23.08	23.04	23.08
			3	0	23.19	23.22	23.22
			5	0	23.10	23.08	23.08
		3	0	0	23.16	23.15	23.12
			2	0	23.17	23.09	23.13
			3	0	23.21	23.17	23.20
		6	0	1	22.18	22.20	22.17
	16QAM	1	0	1	21.84	21.94	21.92
			3	1	22.04	22.11	22.03
			5	1	21.87	21.99	21.93
		3	0	1	21.98	21.99	22.03
			2	1	22.01	21.97	22.03
			3	1	22.02	22.02	22.01
		6	0	2	21.14	21.16	20.98
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	23.11	23.12	23.13
			7	0	23.08	23.14	23.04
			14	0	23.11	23.17	23.15
		8	0	1	22.13	22.15	22.14
			4	1	22.15	22.14	22.12
			7	1	22.13	22.14	22.15
		15	0	1	22.09	22.16	22.10
	16QAM	1	0	1	22.14	22.02	21.90
			7	1	22.14	21.99	21.83
			14	1	22.15	22.01	21.95
		8	0	2	21.14	21.13	21.12
			4	2	21.14	21.13	21.11
			7	2	21.15	21.13	21.09
		15	0	2	21.11	21.07	21.00

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	23.11	23.08	23.08
			13	0	23.20	23.13	23.19
			24	0	23.15	23.09	23.14
		12	0	1	22.12	22.17	22.21
			6	1	22.10	22.13	22.14
			13	1	22.20	22.13	22.08
		25	0	1	22.19	22.19	22.16
	16QAM	1	0	1	22.05	22.13	22.02
			13	1	22.14	22.25	22.09
			24	1	22.15	22.20	21.98
		12	0	2	21.13	21.21	21.22
			6	2	21.08	21.18	21.17
			13	2	21.26	21.19	21.13
		25	0	2	21.21	21.12	21.21
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					23060	**23095**	**23130**
10MHz	QPSK	1	0	0	23.14	23.20	23.19
			25	0	23.35	**23.35**	23.33
			49	0	23.21	23.27	23.16
		25	0	1	22.27	22.25	22.42
			13	1	22.28	22.26	22.44
			25	1	22.38	22.25	22.34
		50	0	1	22.31	22.29	22.33
	16QAM	1	0	1	22.22	22.11	21.96
			25	1	22.34	22.17	22.14
			49	1	22.26	22.14	22.01
		25	0	2	21.21	21.25	21.44
			13	2	21.25	21.20	21.45
			25	2	21.37	21.31	21.31
		50	0	2	21.33	21.27	21.37

Conducted Power of LTE Band 17(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					23755	**23790**	**23825**
5MHz	QPSK	1	0	0	23.06	23.01	23.09
			13	0	23.14	23.15	**23.22**
			24	0	23.09	23.04	23.14
		12	0	1	22.08	22.20	22.16
			6	1	22.03	22.18	22.09
			13	1	22.09	22.06	22.08
		25	0	1	22.13	22.15	22.14
	16QAM	1	0	1	22.08	22.10	22.03
			13	1	22.13	22.19	22.16
			24	1	22.06	22.12	22.00
		12	0	2	21.10	21.24	21.17
			6	2	21.06	21.22	21.13
			13	2	21.10	21.13	21.14
		25	0	2	21.12	21.13	21.22
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					23780	**23790**	**23800**
10MHz	QPSK	1	0	0	22.93	22.96	22.92
			25	0	23.12	22.99	23.02
			49	0	22.99	23.05	22.99
		25	0	1	22.08	22.13	22.17
			13	1	22.04	22.14	22.19
			25	1	22.04	22.09	22.09
		50	0	1	22.05	22.14	22.16
	16QAM	1	0	1	21.97	21.84	21.70
			25	1	22.24	21.98	21.95
			49	1	22.05	21.90	21.83
		25	0	2	21.04	21.12	21.23
			13	2	21.05	21.17	21.19
			25	2	21.02	21.14	21.13
		50	0	2	20.99	21.07	21.16

Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26047	26365	26683
1.4MHz	QPSK	1	0	0	22.34	22.43	22.57
			2	0	22.46	22.58	22.58
			5	0	22.29	22.47	22.54
		3	0	0	22.36	22.47	22.59
			1	0	22.38	22.49	22.59
			3	0	22.36	22.52	22.60
		6	0	1	21.39	21.47	21.69
	16QAM	1	0	1	21.15	21.20	21.24
			2	1	21.25	21.24	21.43
			5	1	21.10	21.26	21.24
		3	0	1	21.14	21.30	21.36
			1	1	21.17	21.33	21.36
			3	1	21.12	21.29	21.33
		6	0	2	20.35	20.26	20.53
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26055	26365	26675
3MHz	QPSK	1	0	0	22.18	22.45	22.51
			8	0	22.05	22.51	22.18
			14	0	22.24	22.41	22.03
		8	0	1	21.43	21.44	21.43
			4	1	21.40	21.42	21.26
			7	1	21.47	21.42	21.04
		15	0	1	21.36	21.41	21.12
	16QAM	1	0	1	21.08	21.32	21.04
			8	1	21.17	21.33	20.80
			14	1	21.19	20.97	20.80
		8	0	2	20.43	20.38	20.36
			4	2	20.39	20.39	20.20
			7	2	20.38	20.36	20.05
		15	0	2	20.34	20.34	20.16

Conducted Power of LTE Band 25(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					26065	**26365**	**26665**
5MHz	QPSK	1	0	0	22.14	22.34	22.49
			12	0	22.19	22.47	22.29
			24	0	22.06	22.05	21.98
		12	0	1	21.42	21.45	20.99
			6	1	21.41	21.40	21.13
			13	1	21.37	21.37	20.96
		25	0	1	21.39	21.43	21.05
	16QAM	1	0	1	20.76	21.27	21.24
			12	1	21.22	21.43	20.98
			24	1	21.09	21.36	20.80
		12	0	2	20.37	20.44	20.34
			6	2	20.34	20.45	20.14
			13	2	20.37	20.44	20.01
		25	0	2	20.38	20.34	20.06
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					26090	**26365**	**26640**
10MHz	QPSK	1	0	0	22.35	22.42	22.48
			24	0	22.53	22.56	**22.69**
			49	0	22.41	22.45	22.49
		25	0	1	21.45	21.50	21.58
			12	1	21.42	21.48	21.54
			25	1	21.45	21.41	21.44
		50	0	1	21.45	21.43	21.45
	16QAM	1	0	1	21.35	21.21	21.24
			24	1	21.51	21.34	21.33
			49	1	21.32	21.19	21.11
		25	0	2	20.40	20.46	20.44
			12	2	20.38	20.46	20.22
			25	2	20.38	20.42	20.43
		50	0	2	20.39	20.46	20.39

Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26115	Channel 26365	Channel 26615
15MHz	QPSK	1	0	0	22.27	22.25	22.38
			38	0	22.46	22.38	22.59
			74	0	22.25	22.28	22.41
		38	0	1	21.49	21.51	21.17
			18	1	21.47	21.52	21.50
			37	1	21.53	21.51	21.23
		75	0	1	21.49	21.52	21.51
	16QAM	1	0	1	21.27	21.38	21.11
			38	1	21.40	21.50	21.29
			74	1	21.27	21.38	20.85
		38	0	2	21.50	21.52	21.57
			18	2	21.48	21.52	21.50
			37	2	21.52	21.53	21.58
		75	0	2	20.37	20.48	20.50
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26140	Channel 26365	Channel 26590
20MHz	QPSK	1	0	0	22.18	22.15	22.15
			49	0	22.52	22.57	22.58
			99	0	22.15	22.23	22.25
		50	0	1	21.32	21.44	21.43
			25	1	21.38	21.46	21.47
			49	1	21.46	21.41	21.36
		100	0	1	21.42	21.40	21.47
	16QAM	1	0	1	21.04	21.27	20.94
			49	1	21.34	21.63	21.44
			99	1	21.06	21.30	20.83
		50	0	2	20.31	20.47	20.45
			25	2	20.35	20.46	20.49
			49	2	20.41	20.35	20.36
		100	0	2	20.35	20.41	20.38

Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26797	26915	27033
1.4MHz	QPSK	1	0	0	22.79	22.80	22.75
			2	0	22.93	22.94	22.93
			5	0	22.76	22.83	22.70
		3	0	0	22.87	22.86	22.79
			1	0	22.87	22.87	22.80
			3	0	22.85	22.91	22.77
		6	0	1	21.86	21.79	21.77
	16QAM	1	0	1	21.65	21.64	21.56
			2	1	21.79	21.83	21.70
			5	1	21.61	21.55	21.52
		3	0	1	21.70	21.73	21.58
			1	1	21.67	21.73	21.58
			3	1	21.65	21.74	21.58
		6	0	2	20.86	20.63	20.71
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26805	26915	27025
3MHz	QPSK	1	0	0	22.78	22.84	22.80
			8	0	22.78	22.82	22.78
			14	0	22.72	22.83	22.77
		8	0	1	21.81	21.70	21.79
			4	1	21.80	21.70	21.81
			7	1	21.77	21.75	21.80
		15	0	1	21.77	21.74	21.75
	16QAM	1	0	1	21.79	21.75	21.76
			8	1	21.77	21.67	21.76
			14	1	21.70	21.60	21.68
		8	0	2	20.85	20.72	20.84
			4	2	20.85	20.70	20.77
			7	2	20.83	20.75	20.76
		15	0	2	20.83	20.68	20.76

Conducted Power of LTE Band 26A(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					26815	**26915**	**27015**
5MHz	QPSK	1	0	0	22.78	22.74	22.78
			12	0	22.87	22.81	22.90
			24	0	22.80	22.72	22.77
		12	0	1	21.76	21.77	21.82
			6	1	21.78	21.76	21.79
			13	1	21.77	21.71	21.72
		25	0	1	21.75	21.80	21.81
	16QAM	1	0	1	21.66	21.82	21.72
			12	1	21.79	21.89	21.86
			24	1	21.71	21.77	21.64
		12	0	2	20.82	20.85	20.83
			6	2	20.81	20.83	20.85
			13	2	20.85	20.77	20.74
		25	0	2	20.84	20.78	20.97
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					26840	**26915**	**26990**
10MHz	QPSK	1	0	0	22.76	22.79	22.76
			24	0	22.87	22.89	**22.96**
			49	0	22.87	22.82	22.77
		25	0	1	21.88	21.86	21.97
			12	1	21.85	21.84	21.91
			25	1	21.82	21.81	21.82
		50	0	1	21.79	21.84	21.87
	16QAM	1	0	1	21.77	21.64	21.70
			24	1	21.99	21.74	21.96
			49	1	21.81	21.61	21.71
		25	0	2	20.91	20.85	20.94
			12	2	20.92	20.87	20.94
			25	2	20.85	20.81	20.82
		50	0	2	20.87	20.86	20.86

Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26865	Channel 26915	Channel 26965
15MHz	QPSK	1	0	0	22.70	22.66	22.76
			38	0	22.88	22.80	22.86
			74	0	22.71	22.63	22.71
		38	0	1	21.89	21.85	21.86
			18	1	21.86	21.84	21.86
			37	1	21.90	21.82	21.86
		75	0	1	21.86	21.84	21.85
	16QAM	1	0	1	21.68	21.77	21.72
			38	1	21.81	21.85	21.78
			74	1	21.70	21.76	21.68
		38	0	2	21.88	21.80	21.85
			18	2	21.88	21.79	21.86
			37	2	21.85	21.82	21.86
		75	0	2	20.76	20.81	20.82

Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26697	26740	26783
1.4MHz	QPSK	1	0	0	22.76	22.89	22.74
			2	0	**22.97**	22.91	22.88
			5	0	22.76	22.82	22.81
		3	0	0	22.92	22.90	22.86
			1	0	22.89	22.89	22.91
			3	0	22.87	22.94	22.87
		6	0	1	21.81	21.83	21.78
	16QAM	1	0	1	21.67	21.70	21.45
			2	1	21.84	21.79	21.63
			5	1	21.71	21.63	21.49
		3	0	1	21.71	21.75	21.63
			1	1	21.68	21.74	21.62
			3	1	21.68	21.69	21.61
		6	0	2	20.88	20.73	20.82
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26705	26740	26775
3MHz	QPSK	1	0	0	22.79	22.90	22.82
			8	0	22.83	22.82	22.84
			14	0	22.81	22.88	22.79
		8	0	1	21.73	21.73	21.83
			4	1	21.76	21.80	21.77
			7	1	21.80	21.81	21.80
		15	0	1	21.74	21.82	21.81
	16QAM	1	0	1	21.83	21.79	21.48
			8	1	21.84	21.73	21.54
			14	1	21.84	21.63	21.60
		8	0	2	20.86	20.87	20.84
			4	2	20.83	20.77	20.82
			7	2	20.89	20.86	20.84
		15	0	2	20.85	20.78	20.78

Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26715	Channel 26740	Channel 26765
5MHz	QPSK	1	0	0	22.76	22.70	22.81
			12	0	22.88	22.90	22.86
			24	0	22.83	22.63	22.66
		12	0	1	21.53	21.60	21.73
			6	1	21.74	21.76	21.78
			13	1	21.87	21.81	21.78
		25	0	1	21.85	21.85	21.83
	16QAM	1	0	1	21.73	21.83	21.71
			12	1	21.86	21.96	21.78
			24	1	21.78	21.66	21.64
		12	0	2	20.79	20.91	20.79
			6	2	20.83	20.92	20.83
			13	2	20.89	20.97	20.85
		25	0	2	20.92	20.95	20.90

Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26740
10MHz	QPSK	1	0	0	22.81
			24	0	22.88
			49	0	22.77
		25	0	1	21.67
			12	1	21.77
			25	1	21.88
		50	0	1	21.82
	16QAM	1	0	1	21.76
			24	1	21.89
			49	1	21.76
		25	0	2	20.73
			12	2	20.83
			25	2	20.92
		50	0	2	20.89

Conducted Power of LTE Band 38 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37775	**38000**	**38225**
5MHz	QPSK	1	0	0	22.88	22.90	23.03
			12	0	23.00	23.04	23.18
			24	0	22.91	22.95	23.08
		12	0	1	21.94	21.95	22.07
			6	1	21.84	21.94	22.02
			13	1	21.94	22.00	22.08
		25	0	1	21.99	21.98	22.02
	16QAM	1	0	1	22.19	22.00	22.01
			12	1	22.28	22.14	22.13
			24	1	22.17	22.03	22.04
		12	0	2	20.86	20.97	20.97
			6	2	20.83	20.98	20.94
			13	2	20.89	21.04	21.00
		25	0	2	20.90	20.93	20.95
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37800	**38000**	**38200**
10MHz	QPSK	1	0	0	23.01	23.10	23.14
			24	0	23.29	23.27	**23.40**
			49	0	23.08	23.09	23.17
		25	0	1	22.01	22.06	22.13
			12	1	21.99	22.12	22.12
			25	1	22.09	22.11	22.19
		50	0	1	22.02	22.08	22.14
	16QAM	1	0	1	22.15	21.66	22.00
			24	1	22.40	21.90	22.25
			49	1	22.17	21.72	22.07
		25	0	2	20.97	20.99	21.05
			12	2	20.97	21.02	21.07
			25	2	21.08	21.09	21.13
		50	0	2	20.94	21.04	21.03

Conducted Power of LTE Band 38 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37825	**38000**	**38175**
15MHz	QPSK	1	0	0	22.96	23.06	23.05
			38	0	23.16	23.22	23.19
			74	0	23.01	23.09	23.06
		37	0	1	22.07	22.11	22.17
			18	1	22.06	22.07	22.15
			37	1	22.03	22.11	22.15
		75	0	1	22.04	22.11	22.15
	16QAM	1	0	1	22.07	21.75	21.86
			38	1	22.21	21.93	22.09
			74	1	22.12	21.82	21.96
		37	0	2	22.05	22.07	22.15
			18	2	22.07	22.10	22.16
			37	2	22.06	22.10	22.15
		75	0	2	21.02	21.05	21.07
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37850	**38000**	**38150**
20MHz	QPSK	1	0	0	22.78	22.72	22.84
			49	0	23.22	23.12	23.32
			99	0	22.90	22.82	22.95
		50	0	1	21.94	22.00	22.02
			25	1	21.94	21.94	22.02
			49	1	22.05	22.07	22.11
		100	0	1	21.98	22.01	22.07
	16QAM	1	0	1	21.75	21.26	21.44
			49	1	22.19	21.71	21.97
			99	1	21.87	21.39	21.59
		50	0	2	20.89	20.94	20.93
			25	2	20.88	20.97	20.89
			49	2	21.02	21.01	21.05
		100	0	2	20.93	20.94	21.02

Conducted Power of LTE Band 41(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					39675	**40620**	**41565**
5MHz	QPSK	1	0	0	22.82	22.88	22.82
			12	0	22.99	23.04	22.88
			24	0	22.89	22.95	22.76
		12	0	1	21.84	21.95	21.84
			6	1	21.85	21.94	21.87
			13	1	21.77	21.97	21.85
		25	0	1	21.85	21.99	21.87
	16QAM	1	0	1	21.79	22.20	21.91
			12	1	21.93	22.33	21.94
			24	1	21.87	22.23	21.86
		12	0	2	20.81	20.87	20.87
			6	2	20.83	20.88	20.89
			13	2	20.83	20.94	20.85
		25	0	2	20.81	20.88	20.85
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					39700	**40620**	**41540**
10MHz	QPSK	1	0	0	22.86	22.98	22.96
			24	0	23.18	**23.26**	23.18
			49	0	22.91	23.10	22.89
		25	0	1	21.95	22.05	21.92
			12	1	21.96	22.02	21.89
			25	1	21.90	22.08	21.92
		50	0	1	21.92	22.05	21.90
	16QAM	1	0	1	22.00	21.66	21.82
			24	1	22.28	21.83	22.02
			49	1	22.09	21.69	21.73
		25	0	2	21.01	20.89	20.86
			12	2	21.02	20.91	20.86
			25	2	20.92	20.99	20.86
		50	0	2	20.91	21.01	20.80

Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39725	40620	41515
15MHz	QPSK	1	0	0	22.87	23.04	22.89
			37	0	22.96	23.19	23.03
			74	0	22.92	23.11	22.83
		37	0	1	21.98	22.10	22.01
			19	1	21.98	22.07	22.01
			38	1	21.97	22.09	22.06
		75	0	1	21.96	22.08	22.01
	16QAM	1	0	1	21.94	21.75	21.79
			37	1	22.17	21.92	21.94
			74	1	22.04	21.76	21.74
		37	0	2	21.98	22.09	21.98
			19	2	21.97	22.08	22.04
			38	2	21.96	22.09	21.95
		75	0	2	20.97	20.96	20.89
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39750	40620	41490
20MHz	QPSK	1	0	0	22.63	22.70	22.83
			49	0	23.13	23.17	23.23
			99	0	22.78	22.84	22.80
		50	0	1	21.94	21.95	21.86
			25	1	21.93	21.98	21.89
			50	1	21.95	22.04	22.03
		100	0	1	21.92	21.99	22.01
	16QAM	1	0	1	21.62	21.27	21.39
			49	1	22.15	21.67	21.82
			99	1	21.72	21.36	21.32
		50	0	2	20.95	20.93	20.84
			25	2	20.92	20.89	20.81
			50	2	20.89	21.03	20.94
		100	0	2	20.92	20.94	20.97

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

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	-	-	-	-	-

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	16.73
		06	2437	**16.85**
		11	2462	16.66
802.11g	6	01	2412	13.82
		06	2437	14.75
		11	2462	14.44
802.11n(20)	6.5	01	2412	13.11
		06	2437	12.80
		11	2462	12.69
802.11n(40)	13.5	03	2422	12.83
		06	2437	12.67
		09	2452	12.87

Bluetooth_V4.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	**7.366**
	39	2441	7.175
	78	2480	7.282
π /4-DQPSK	0	2402	6.762
	39	2441	6.489
	78	2480	6.202
8-DPSK	0	2402	6.663
	39	2441	6.358
	78	2480	6.363

Bluetooth_V4.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	7.210
	19	2440	6.918
	39	2480	**7.269**

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**13.89**	13.86	13.67	13.53	13.46	13.45	13.40	13.22
	40	5200	13.87	13.77	13.76	13.74	13.61	13.44	13.33	13.30
	48	5240	13.90	13.80	13.74	13.56	13.51	13.38	13.37	13.36
	52	5260	13.41	13.22	13.17	13.08	12.99	12.83	12.81	12.64
	60	5300	**13.63**	13.59	13.56	13.54	13.42	13.37	13.22	13.05
	64	5320	13.51	13.46	13.32	13.22	13.21	13.19	13.06	12.99
	149	5745	12.83	12.80	12.73	12.62	12.62	12.45	12.32	12.23
	157	5785	**12.91**	12.82	12.77	12.62	12.55	12.38	12.24	12.21
	165	5825	12.83	12.72	12.63	12.45	12.41	12.23	12.18	12.00
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	12.67	12.66	12.49	12.40	12.31	12.23	12.22	12.12
	40	5200	12.69	12.54	12.37	12.26	12.19	12.01	12.00	11.94
	48	5240	12.73	12.58	12.52	12.39	12.35	12.16	12.05	11.89
	52	5260	12.35	12.22	12.09	11.97	11.86	11.79	11.70	11.62
	60	5300	12.62	12.52	12.40	12.37	12.30	12.21	12.12	12.07
	64	5320	12.54	12.45	12.41	12.27	12.21	12.11	11.94	11.80
	149	5745	11.89	11.87	11.71	11.69	11.67	11.64	11.54	11.48
	157	5785	11.95	11.75	11.65	11.62	11.45	11.29	11.10	10.98
	165	5825	11.84	11.78	11.72	11.64	11.54	11.49	11.39	11.23
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	11.26	11.25	11.12	10.94	10.90	10.73	10.55	10.49
	46	5230	11.13	11.10	11.06	10.86	10.82	10.75	10.59	10.58
	54	5270	10.64	10.49	10.34	10.17	10.16	9.96	9.81	9.63
	62	5310	10.82	10.73	10.66	10.48	10.45	10.33	10.25	10.22
	151	5755	12.18	12.16	12.12	12.11	12.02	11.95	11.88	11.85
	159	5795	12.37	12.24	12.21	12.14	12.07	11.90	11.85	11.73

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	12.74	12.66	12.57	12.44	12.34	12.29	12.13	12.05
	40	5200	12.73	12.65	12.64	12.58	12.53	12.37	12.28	12.10
	48	5240	12.77	12.71	12.65	12.52	12.45	12.29	12.20	12.13
	52	5260	12.45	12.38	12.27	12.07	11.90	11.76	11.60	11.51
	60	5300	12.51	12.48	12.39	12.36	12.34	12.31	12.28	12.18
	64	5320	12.47	12.36	12.25	12.17	12.11	11.93	11.81	11.76
	149	5745	12.10	12.02	12.00	11.99	11.86	11.71	11.68	11.55
	157	5785	11.95	11.93	11.78	11.62	11.48	11.47	11.36	11.33
	165	5825	11.83	11.67	11.48	11.47	11.45	11.28	11.21	11.05
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.11	11.05	10.86	10.86	10.78	10.60	10.58	10.38
	46	5230	10.94	10.92	10.91	10.72	10.70	10.58	10.51	10.42
	54	5270	10.60	10.47	10.34	10.24	10.22	10.02	9.99	9.84
	62	5310	10.79	10.64	10.54	10.51	10.34	10.31	10.24	10.04
	151	5755	12.27	12.14	12.11	12.01	11.86	11.72	11.56	11.51
	159	5795	12.17	12.07	11.92	11.77	11.62	11.48	11.46	11.29

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 5mm 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 ≥0.8W/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 ≥0.8W/kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/kg, SAR testing with a headset connected is not required.
5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/kg.
6. 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.

7. 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.
8. 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.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
9. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
10. 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.
11. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
12. 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.
13. 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 ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
14. 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 ≤1.45W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

13.1.3. Test Result

SAR MEASUREMENT										
Depth of Liquid (cm):>15			Relative Humidity (%): 51.2							
Product: POS Terminal										
Test Mode: GSM850 with GMSK modulation										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card										
Body back	voice	190	836.6	-0.16	0.084	32.50	32.19	1.074	0.090	1.6
Body front	voice	190	836.6	0.23	**0.189**	32.50	32.19	1.074	**0.203**	1.6
Body back	GPRS-4 slot	190	836.6	-0.25	0.127	29.00	28.82	1.042	0.132	1.6
Body front	GPRS-4 slot	190	836.6	-0.07	**0.325**	29.00	28.82	1.042	**0.339**	1.6
Edge 2(Right)	GPRS-4 slot	190	836.6	0.04	0.293	29.00	28.82	1.042	0.305	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 5mm of all above table.

SAR MEASUREMENT										
Depth of Liquid (cm):>15			Relative Humidity (%): 44.2							
Product: POS Terminal										
Test Mode: PCS1900 with GMSK modulation										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card										
Body back	voice	661	1880.0	0.02	**0.179**	29.50	28.74	1.191	**0.213**	1.6
Body front	voice	661	1880.0	0.18	0.158	29.50	28.74	1.191	0.188	1.6
Body back	GPRS-4 slot	661	1880	-0.03	**0.285**	26.00	25.32	1.169	**0.333**	1.6
Body front	GPRS-4 slot	661	1880.0	0.23	0.266	26.00	25.32	1.169	0.311	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	-0.18	0.281	26.00	25.32	1.169	0.329	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 5mm of all above table.

SAR MEASUREMENT										
Depth of Liquid (cm):>15				Relative Humidity (%): 44.2						
Product: POS Terminal										
Test Mode: WCDMA Band II with QPSK modulation										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	9400	1880	-0.09	0.346	22.50	22.16	1.081	0.374	1.6
Body front	RMC 12.2kbps	9400	1880	-0.19	**0.356**	22.50	22.16	1.081	**0.385**	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.12	0.309	22.50	22.16	1.081	0.334	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 5mm of all above table.

SAR MEASUREMENT										
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8						
Product: POS Terminal										
Test Mode: WCDMA Band IV with QPSK modulation										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	8662	1732.4	-0.22	0.149	22.50	21.97	1.130	0.168	1.6
Body front	RMC 12.2kbps	8662	1732.4	0.15	**0.253**	22.50	21.97	1.130	**0.286**	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	-0.31	0.219	22.50	21.97	1.130	0.247	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 5mm of all above table.

SAR MEASUREMENT										
Depth of Liquid (cm):>15				Relative Humidity (%): 51.2						
Product: POS Terminal										
Test Mode: WCDMA Band V with QPSK modulation										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	4183	836.4	-0.13	0.095	22.50	22.38	1.028	0.098	1.6
Body front	RMC 12.2kbps	4183	836.4	0.31	**0.218**	22.50	22.38	1.028	**0.224**	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.07	0.202	22.50	22.38	1.028	0.208	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 44.2								
Product: POS Terminal													
Test Mode: LTE Band 2													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	18900	1880	-0.19	0.300	23.00	22.11	1.227	0.368	1.6
		Body front	1	0	18900	1880	0.05	**0.340**	23.00	22.11	1.227	**0.417**	1.6
		Edge 2(Right)	1	0	18900	1880	-0.09	0.306	23.00	22.11	1.227	0.376	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 49.8								
Product: POS Terminal													
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)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	20175	1732.5	0.27	0.133	23.00	22.25	1.189	0.158	1.6
		Body front	1	0	20175	1732.5	-0.12	**0.210**	23.00	22.25	1.189	**0.250**	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.21	0.176	23.00	22.25	1.189	0.209	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 51.2								
Product: POS Terminal													
Test Mode: LTE Band 5													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Body back	1	0	20525	836.5	-0.31	0.097	23.50	22.96	1.132	0.110	1.6
		Body front	1	0	20525	836.5	-0.21	**0.246**	23.50	22.96	1.132	**0.279**	1.6
		Edge 2(Right)	1	0	20525	836.5	0.22	0.215	23.50	22.96	1.132	0.243	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15			Relative Humidity (%): 42.7										
Product: POS Terminal													
Test Mode: LTE Band 7													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	20850	2510	-0.12	0.979	22.70	22.06	1.159	1.134	1.6
		Body back	1	0	21100	2535	0.19	1.039	22.70	22.17	1.130	1.174	1.6
		Body back	1	0	21350	2560	-0.13	**1.057**	22.70	22.19	1.125	**1.189**	1.6
		Body front	1	0	21100	2535	-0.26	0.120	22.70	22.17	1.130	0.136	1.6
		Edge 2(Right)	1	0	21100	2535	-0.19	0.486	22.70	22.17	1.130	0.549	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15			Relative Humidity (%): 47.3										
Product: POS Terminal													
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)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Body back	1	0	23095	707.5	-0.06	0.111	23.50	23.20	1.072	0.119	1.6
		Body front	1	0	23095	707.5	-0.17	0.214	23.50	23.20	1.072	0.229	1.6
		Edge 2(Right)	1	0	23095	707.5	0.21	**0.222**	23.50	23.20	1.072	**0.238**	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15			Relative Humidity (%): 47.3										
Product: POS Terminal													
Test Mode: LTE Band 17													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Body back	1	0	23790	710	-0.24	0.111	23.50	22.96	1.132	0.126	1.6
		Body front	1	0	23790	710	-0.28	**0.222**	23.50	22.96	1.132	**0.251**	1.6
		Edge 2(Right)	1	0	23790	710	0.10	0.212	23.50	22.96	1.132	0.240	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15				Relative Humidity (%): 44.2									
Product: POS Terminal													
Test Mode: LTE Band 25													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	26365	1882.5	-0.15	0.370	23.00	22.15	1.216	0.450	1.6
		Body front	1	0	26365	1882.5	0.19	**0.397**	23.00	22.15	1.216	**0.483**	1.6
		Edge 2(Right)	1	0	26365	1882.5	-0.16	0.375	23.00	22.15	1.216	0.456	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15				Relative Humidity (%): 51.2									
Product: LTE smartphone													
Test Mode: LTE Band 26a													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
15	QPSK	Body back	1	0	26915	836.5	-0.13	0.097	23.00	22.66	1.081	0.105	1.6
		Body front	1	0	26915	836.5	-0.17	**0.206**	23.00	22.66	1.081	**0.223**	1.6
		Edge 2(Right)	1	0	26915	836.5	0.12	0.184	23.00	22.66	1.081	0.199	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15				Relative Humidity (%): 51.2									
Product: LTE smartphone													
Test Mode: LTE Band 26b													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Body back	1	0	26740	819	-0.29	0.083	23.00	22.81	1.045	0.087	1.6
		Body front	1	0	26740	819	-0.18	**0.195**	23.00	22.81	1.045	**0.204**	1.6
		Edge 2(Right)	1	0	26740	819	-0.16	0.172	23.00	22.81	1.045	0.180	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 5mm of all above table.

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 42.7								
Product: POS Terminal													
Test Mode: LTE Band 38													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	38000	2595	-0.10	**0.447**	23.50	22.72	1.197	**0.535**	1.6
		Body front	1	0	38000	2595	0.02	0.070	23.50	22.72	1.197	0.084	1.6
		Edge 2(Right)	1	0	38000	2595	-0.22	0.199	23.50	22.72	1.197	0.238	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 5mm of all above table

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 42.7								
Product: POS Terminal													
Test Mode: LTE Band 41													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Body back	1	0	40620	2593	0.14	**0.454**	23.50	22.70	1.202	**0.546**	1.6
		Body front	1	0	40620	2593	-0.26	0.071	23.50	22.70	1.202	0.085	1.6
		Edge 2(Right)	1	0	40620	2593	0.30	0.212	23.50	22.70	1.202	0.255	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 5mm of all above table

SAR MEASUREMENT										
Depth of Liquid (cm):>15				Relative Humidity (%): 46.1						
Product: POS Terminal										
Test Mode:802.11b										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Body back	DTS	6	2437	-0.01	0.120	16.90	16.85	1.012	0.121	1.6
Body front	DTS	6	2437	0.09	0.060	16.90	16.85	1.012	0.061	1.6
Edge 1 (Top)	DTS	6	2437	-0.05	0.063	16.90	16.85	1.012	0.064	1.6
Edge 4 (Left)	DTS	6	2437	0.04	**0.133**	16.90	16.85	1.012	**0.135**	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 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 59.8					
Product: POS Terminal									
Test Mode: 5.2GHz WIFI-802.11a									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	40	5200	-0.10	**0.195**	13.90	13.87	1.007	**0.196**	1.6
Body front	40	5200	-0.09	0.112	13.90	13.87	1.007	0.113	1.6
Edge 1 (Top)	40	5200	0.09	0.129	13.90	13.87	1.007	0.130	1.6
Edge 4 (Left)	40	5200	0.33	0.154	13.90	13.87	1.007	0.155	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 5mm of all above table

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 52.4					
Product: POS Terminal									
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)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	60	5300	-0.18	**0.192**	13.70	13.63	1.016	**0.195**	1.6
Body front	60	5300	-0.30	0.117	13.70	13.63	1.016	0.119	1.6
Edge 1 (Top)	60	5300	0.20	0.140	13.70	13.63	1.016	0.142	1.6
Edge 4 (Left)	60	5300	-0.09	0.178	13.70	13.63	1.016	0.181	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 5mm of all above table

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 48.7					
Product: POS Terminal									
Test Mode: 5.8GHz WIFI-802.11a									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	157	5785	-0.24	**0.251**	13.00	12.91	1.021	**0.256**	1.6
Body front	157	5785	-0.06	0.120	13.00	12.91	1.021	0.123	1.6
Edge 1 (Top)	157	5785	-0.15	0.172	13.00	12.91	1.021	0.176	1.6
Edge 4 (Left)	157	5785	0.10	0.251	13.00	12.91	1.021	0.256	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 5mm of all above table

Repeated SAR											
Product: POS Terminal											
Test Mode: LTE Band 7											
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
	UL RB Allocation	UL RB START									
Body back	1	0	21350	2560	0.03	1.055	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: POS Terminal									
Band	Position	Mode		Ch.	Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 7	Body back	1	0	21350	2560	1.057	1.055	1.002	＜1.2

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

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

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 5mm 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:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - 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 <5mm, 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
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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/Ri, 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	7.5	5.62	5	0.232

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	2.4GHz WI-Fi Band	Bluetooth		
Body-worn (voice)	Rear	0.090	0.121		0.211	No
		0.090		0.232	0.322	No
	Front	0.203	0.061		0.264	No
		0.203		0.232	0.435	No
Body-worn (Data)	Rear	0.132		0.232	0.364	No
		0.132	0.121		0.253	No
	Front	0.339		0.232	0.571	No
		0.339	0.061		0.400	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn (voice)	Rear	0.090	0.196		0.286	No
		0.090		0.195	0.285	No
	Front	0.203	0.113		0.316	No
		0.203		0.119	0.322	No
Body-worn (Data)	Rear	0.132		0.195	0.327	No
		0.132	0.196		0.328	No
	Front	0.339		0.119	0.458	No
		0.339	0.113		0.452	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.8GHz WI-Fi Band			
Body-worn (voice)	Rear	0.090	0.256		0.346	No
	Front	0.203	0.123		0.326	No
Body-worn (Data)	Rear	0.132	0.256		0.388	No
	Front	0.339	0.123		0.462	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	2.4GHz WI-Fi Band	Bluetooth		
Body-worn (voice)	Rear	0.213	0.121		0.334	No
		0.213		0.232	0.445	No
	Front	0.188	0.061		0.249	No
		0.188		0.232	0.420	No
Body-worn (Data)	Rear	0.333		0.232	0.565	No
		0.333	0.121		0.454	No
	Front	0.311		0.232	0.543	No
		0.311	0.061		0.372	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn (voice)	Rear	0.213	0.196		0.409	No
		0.213		0.195	0.408	No
	Front	0.188	0.113		0.301	No
		0.188		0.119	0.307	No
Body-worn (Data)	Rear	0.333		0.195	0.528	No
		0.333	0.196		0.529	No
	Front	0.311		0.119	0.430	No
		0.311	0.113		0.424	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	5.8GHz WI-Fi Band			
Body-worn (voice)	Rear	0.213	0.256		0.469	No
	Front	0.188	0.123		0.311	No
Body-worn (Data)	Rear	0.333	0.256		0.589	No
	Front	0.311	0.123		0.434	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.374	0.121		0.495	No
	Front	0.385	0.061		0.446	No
	Rear	0.374		0.232	0.606	No
	Front	0.385		0.232	0.617	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.374	0.196		0.570	No
	Front	0.385	0.113		0.498	No
	Rear	0.374		0.195	0.569	No
	Front	0.385		0.119	0.504	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.8GHz WI-Fi Band			
Body-worn	Rear	0.374	0.256		0.630	No
	Front	0.385	0.123		0.508	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.168	0.121		0.289	No
	Front	0.286	0.061		0.347	No
	Rear	0.168		0.232	0.400	No
	Front	0.286		0.232	0.518	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.168	0.196		0.364	No
	Front	0.286	0.113		0.399	No
	Rear	0.168		0.195	0.363	No
	Front	0.286		0.119	0.405	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.8GHz WI-Fi Band			
Body-worn	Rear	0.168	0.256		0.424	No
	Front	0.286	0.123		0.409	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.098	0.121		0.219	No
	Front	0.224	0.061		0.285	No
	Rear	0.098		0.232	0.330	No
	Front	0.224		0.232	0.456	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.098	0.196		0.294	No
	Front	0.224	0.113		0.337	No
	Rear	0.098		0.195	0.293	No
	Front	0.224		0.119	0.343	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.8GHz WI-Fi Band			
Body-worn	Rear	0.098	0.256		0.354	No
	Front	0.224	0.123		0.347	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.368	0.121		0.489	No
	Front	0.417	0.061		0.478	No
	Rear	0.368		0.232	0.600	No
	Front	0.417		0.232	0.649	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.368	0.196		0.564	No
	Front	0.417	0.113		0.530	No
	Rear	0.368		0.195	0.563	No
	Front	0.417		0.119	0.536	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.8GHz WI-Fi Band			
Body-worn	Rear	0.368	0.256		0.624	No
	Front	0.417	0.123		0.540	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.158	0.121		0.279	No
	Front	0.250	0.061		0.311	No
	Rear	0.158		0.232	0.390	No
	Front	0.250		0.232	0.482	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.158	0.196		0.354	No
	Front	0.250	0.113		0.363	No
	Rear	0.158		0.195	0.353	No
	Front	0.250		0.119	0.369	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.8GHz WI-Fi Band			
Body-worn	Rear	0.158	0.256		0.414	No
	Front	0.250	0.123		0.373	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.110	0.121		0.231	No
	Front	0.279	0.061		0.340	No
	Rear	0.110		0.232	0.342	No
	Front	0.279		0.232	0.511	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.110	0.196		0.306	No
	Front	0.279	0.113		0.392	No
	Rear	0.110		0.195	0.305	No
	Front	0.279		0.119	0.398	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.8GHz WI-Fi Band			
Body-worn	Rear	0.110	0.256		0.366	No
	Front	0.279	0.123		0.402	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	1.189	0.121		1.310	No
	Front	0.136	0.061		0.197	No
	Rear	1.189		0.232	1.421	No
	Front	0.136		0.232	0.368	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	1.189	0.196		1.385	No
	Front	0.136	0.113		0.249	No
	Rear	1.189		0.195	1.384	No
	Front	0.136		0.119	0.255	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.8GHz WI-Fi Band			
Body-worn	Rear	1.189	0.256		**1.445**	No
	Front	0.136	0.123		0.259	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 12 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.119	0.121		0.240	No
	Front	0.229	0.061		0.290	No
	Rear	0.119		0.232	0.351	No
	Front	0.229		0.232	0.461	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.119	0.196		0.315	No
	Front	0.229	0.113		0.342	No
	Rear	0.119		0.195	0.314	No
	Front	0.229		0.119	0.348	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.8GHz WI-Fi Band			
Body-worn	Rear	0.119	0.256		0.375	No
	Front	0.229	0.123		0.352	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 17 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.126	0.121		0.247	No
	Front	0.251	0.061		0.312	No
	Rear	0.126		0.232	0.358	No
	Front	0.251		0.232	0.483	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.126	0.196		0.322	No
	Front	0.251	0.113		0.364	No
	Rear	0.126		0.195	0.321	No
	Front	0.251		0.119	0.370	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.8GHz WI-Fi Band			
Body-worn	Rear	0.126	0.256		0.382	No
	Front	0.251	0.123		0.374	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 25 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 25	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.450	0.121		0.571	No
	Front	0.483	0.061		0.544	No
	Rear	0.450		0.232	0.682	No
	Front	0.483		0.232	0.715	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 25	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.450	0.196		0.646	No
	Front	0.483	0.113		0.596	No
	Rear	0.450		0.195	0.645	No
	Front	0.483		0.119	0.602	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 25	5.8GHz WI-Fi Band			
Body-worn	Rear	0.450	0.256		0.706	No
	Front	0.483	0.123		0.606	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 26a &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26a	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.105	0.121		0.226	No
	Front	0.223	0.061		0.284	No
	Rear	0.105		0.232	0.337	No
	Front	0.223		0.232	0.455	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26a	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.105	0.196		0.301	No
	Front	0.223	0.113		0.336	No
	Rear	0.105		0.195	0.300	No
	Front	0.223		0.119	0.342	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26a	5.8GHz WI-Fi Band			
Body-worn	Rear	0.105	0.256		0.361	No
	Front	0.223	0.123		0.346	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 26b &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26b	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.087	0.121		0.208	No
	Front	0.204	0.061		0.265	No
	Rear	0.087		0.232	0.319	No
	Front	0.204		0.232	0.436	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26b	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.087	0.196		0.283	No
	Front	0.204	0.113		0.317	No
	Rear	0.087		0.195	0.282	No
	Front	0.204		0.119	0.323	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26b	5.8GHz WI-Fi Band			
Body-worn	Rear	0.087	0.256		0.343	No
	Front	0.204	0.123		0.327	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.535	0.121		0.656	No
	Front	0.084	0.061		0.145	No
	Rear	0.535		0.232	0.767	No
	Front	0.084		0.232	0.316	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.535	0.196		0.731	No
	Front	0.084	0.113		0.197	No
	Rear	0.535		0.195	0.73	No
	Front	0.084		0.119	0.203	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.8GHz WI-Fi Band			
Body-worn	Rear	0.535	0.256		0.791	No
	Front	0.084	0.123		0.207	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	2.4GHz WI-Fi Band	Bluetooth		
Body-worn	Rear	0.546	0.121		0.667	No
	Front	0.085	0.061		0.146	No
	Rear	0.546		0.232	0.778	No
	Front	0.085		0.232	0.317	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Body-worn	Rear	0.546	0.196		0.742	No
	Front	0.085	0.113		0.198	No
	Rear	0.546		0.195	0.741	No
	Front	0.085		0.119	0.204	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.8GHz WI-Fi Band			
Body-worn	Rear	0.546	0.256		0.802	No
	Front	0.085	0.123		0.208	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

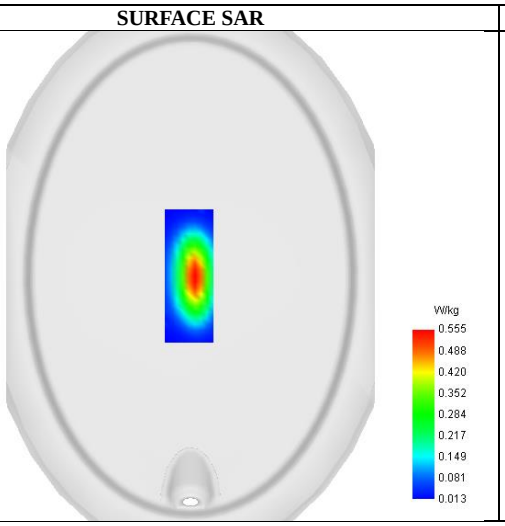
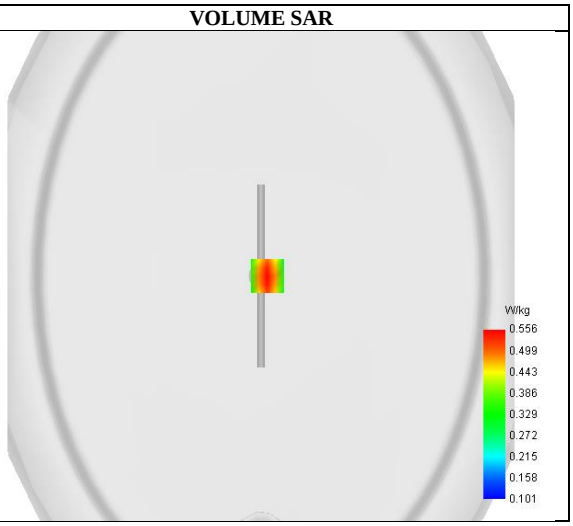
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Jan. 21, 2025**
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=2.04
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =42.45; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):20.7, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

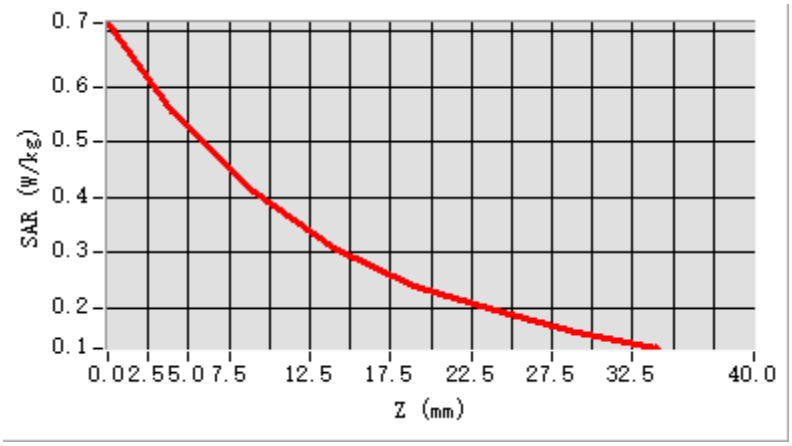
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

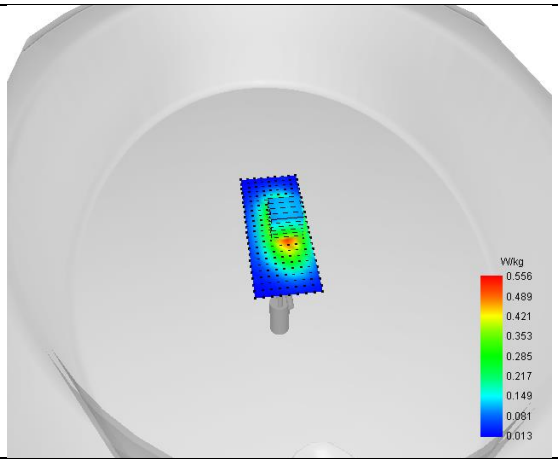
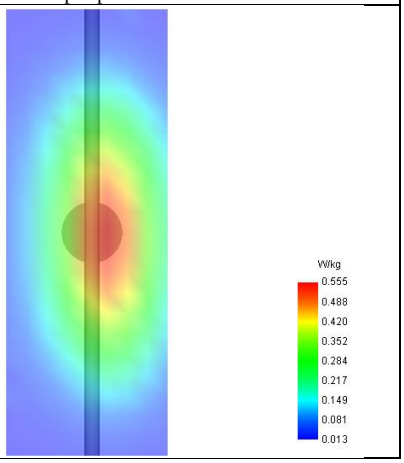
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=0.00 ; SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.375
SAR 1g (W/Kg)	0.532
Variation (%)	-5.930
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	73.606709

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.716	0.556	0.410	0.310	0.239	0.194	0.157



3D screen shot	Hot spot position
	

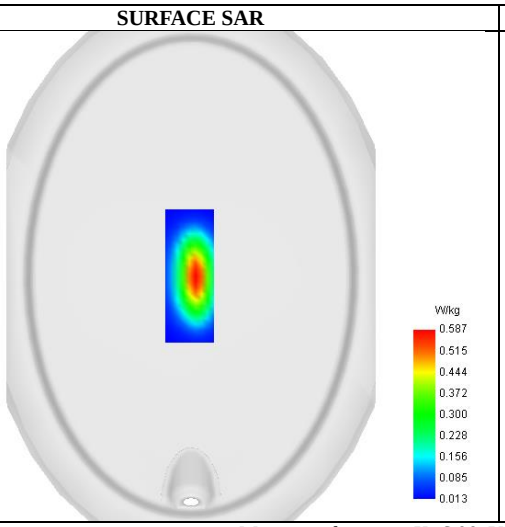
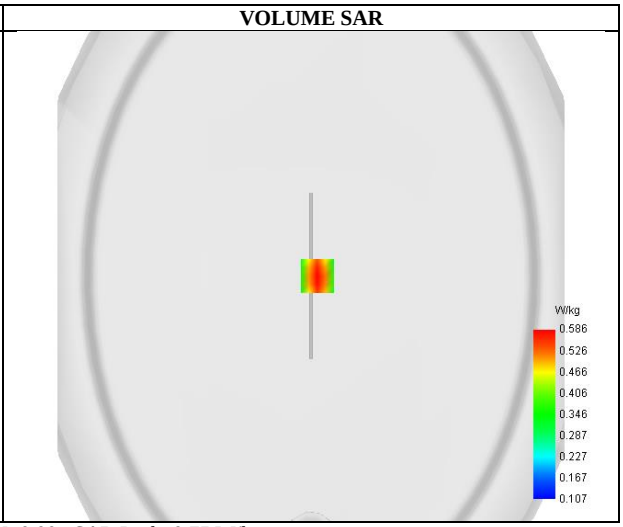
Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.89
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =41.27; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (℃):20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

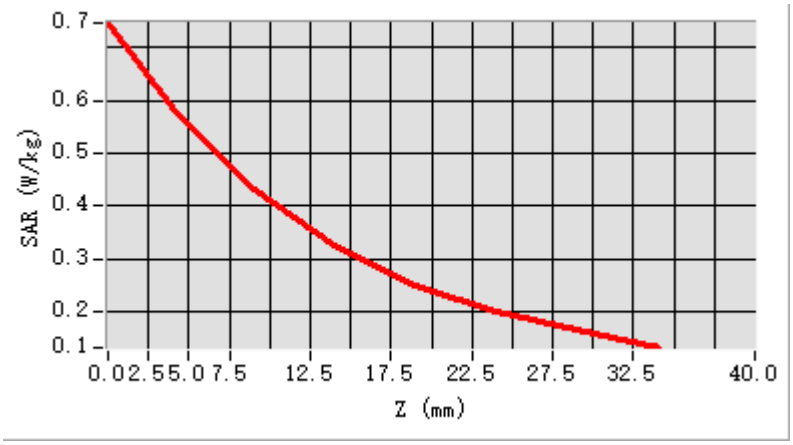
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

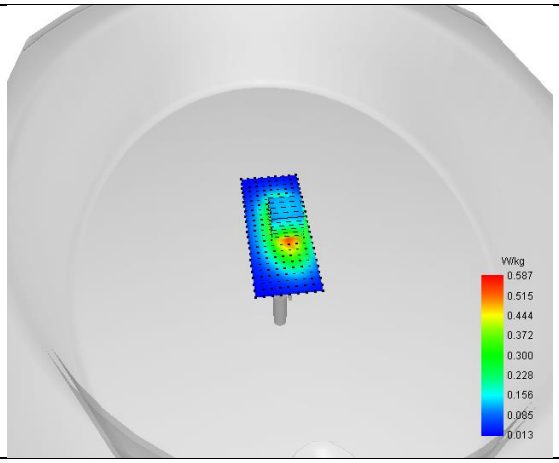
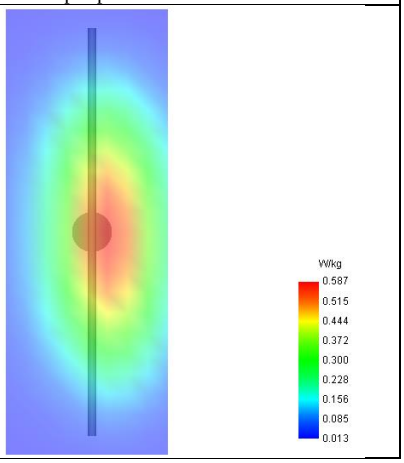
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=0.00 ; SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.395
SAR 1g (W/Kg)	0.559
Variation (%)	-1.820
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	73.894171

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.746	0.586	0.433	0.327	0.251	0.202	0.166



3D screen shot	Hot spot position
	

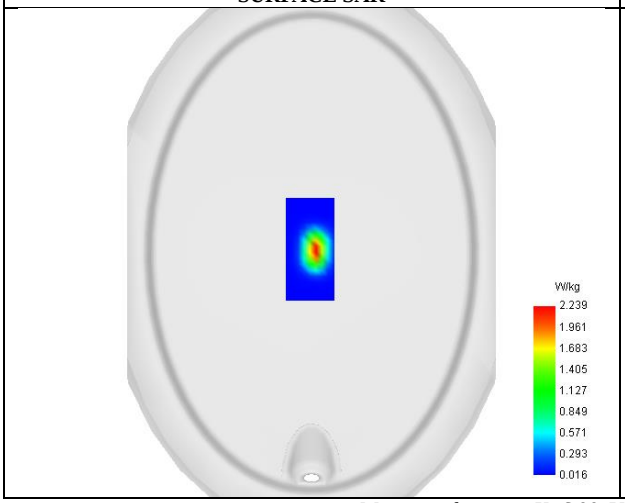
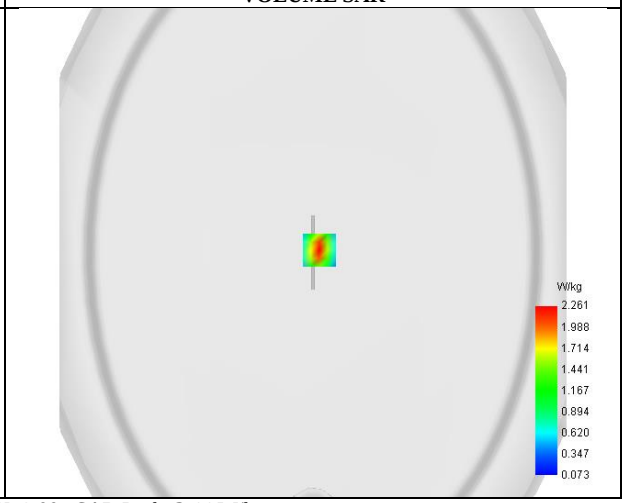
Test Laboratory: AGC Lab **Date: Jan. 23, 2025**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.28
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.38 mho/m; εr =39.14; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (℃): 20.6, Liquid temperature (℃): 20.4

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

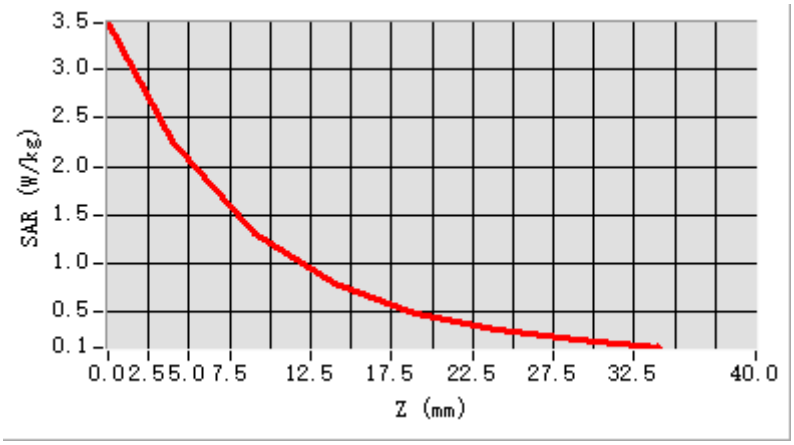
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

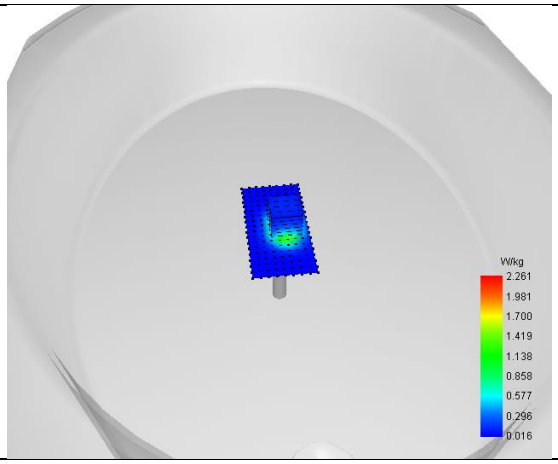
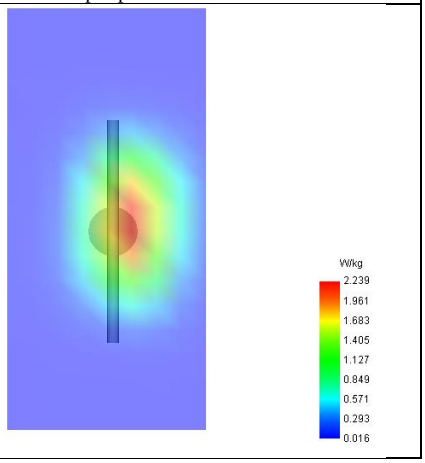
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=2.00 ; SAR Peak: 3.44 W/kg

SAR 10g (W/Kg)	1.131
SAR 1g (W/Kg)	2.189
Variation (%)	-1.900
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.971366

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.470	2.261	1.311	0.800	0.496	0.322	0.211



3D screen shot	Hot spot position
	

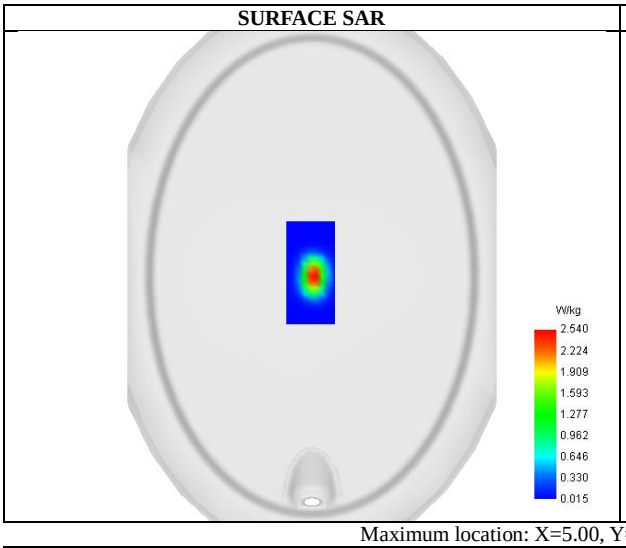
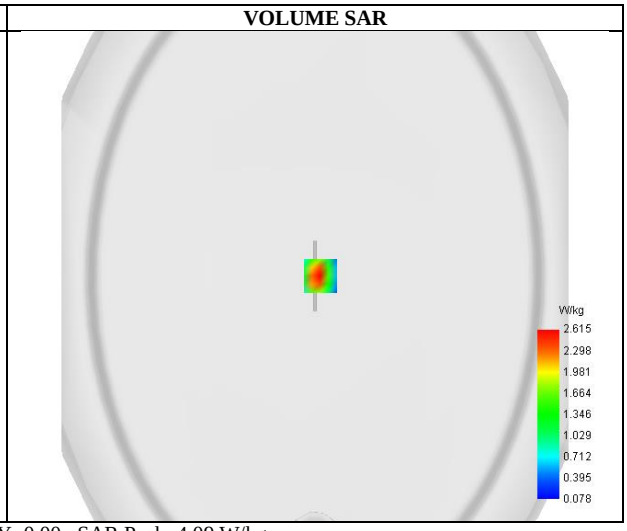
Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.36 mho/m; εr =39.18; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (℃):20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

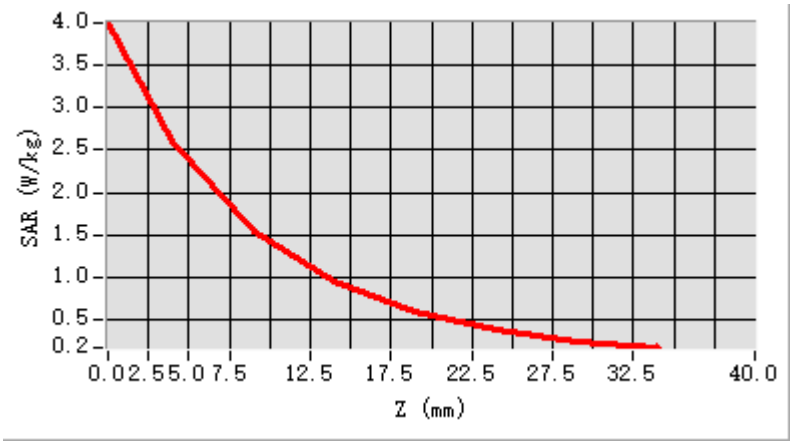
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

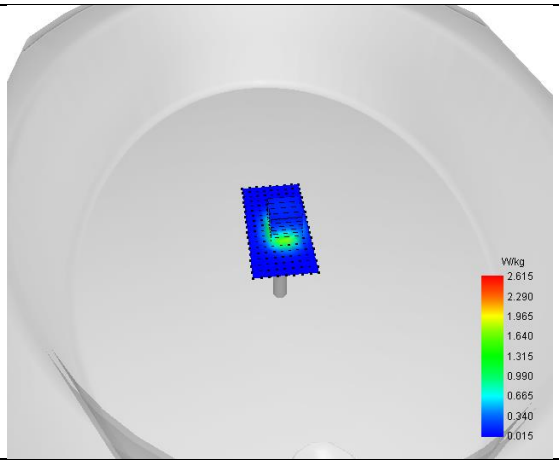
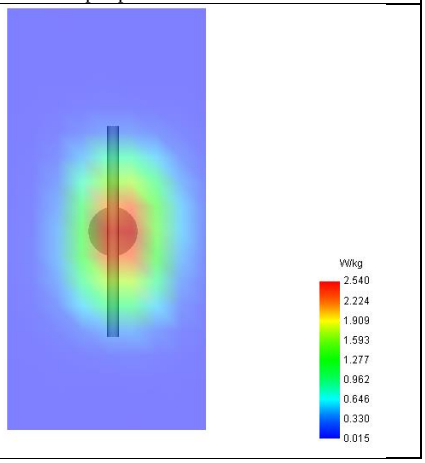
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=0.00 ; SAR Peak: 4.09 W/kg

SAR 10g (W/Kg)	1.342
SAR 1g (W/Kg)	2.513
Variation (%)	-1.020
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.381247

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.004	2.615	1.527	0.938	0.587	0.373	0.242



3D screen shot	Hot spot position
	

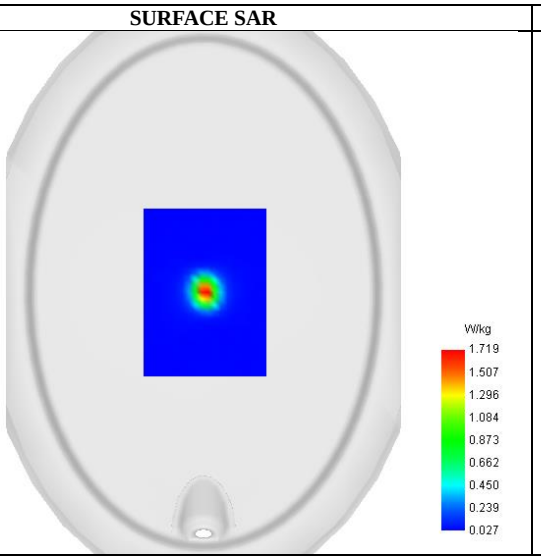
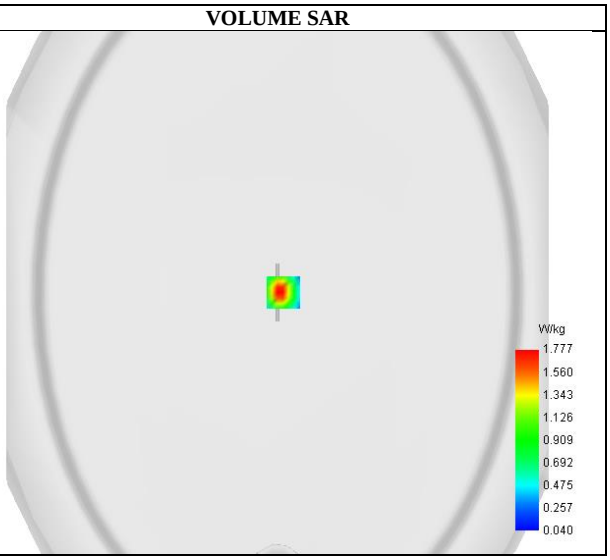
Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.78 mho/m; εr =38.89; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=15dBm

Ambient temperature (℃):20.8, Liquid temperature (℃): 20.0

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

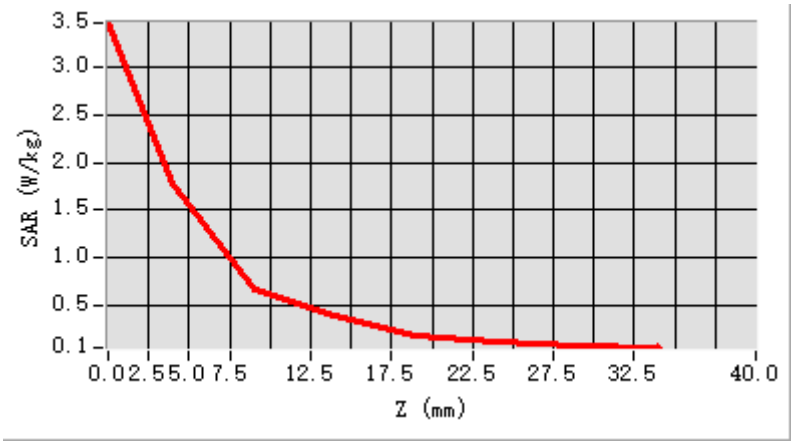
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

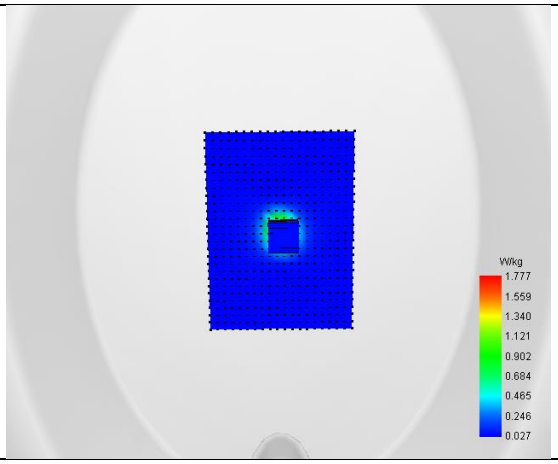
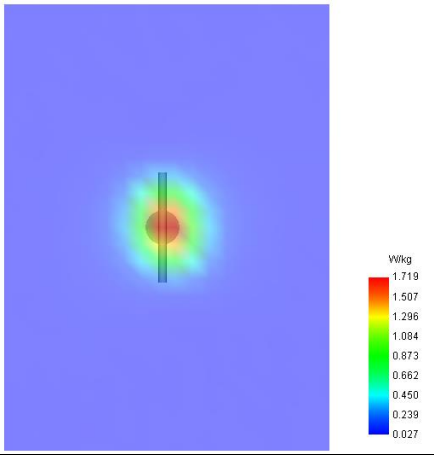
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=0.00 ; SAR Peak: 3.17 W/kg

SAR 10g (W/Kg)	0.768
SAR 1g (W/Kg)	1.694
Variation (%)	-2.480
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	45.758922

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.466	1.777	0.671	0.394	0.181	0.113	0.071



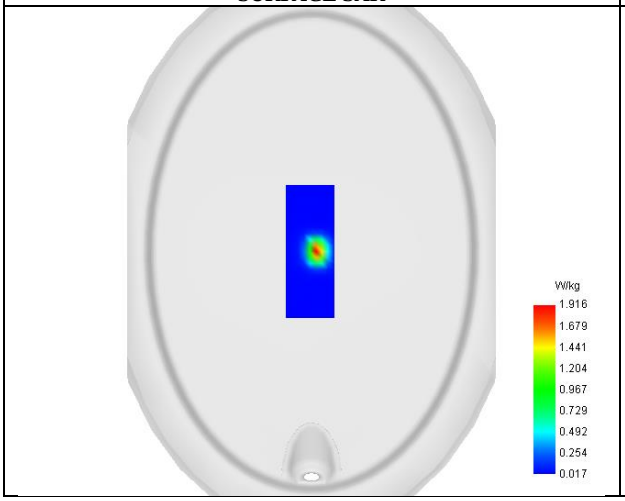
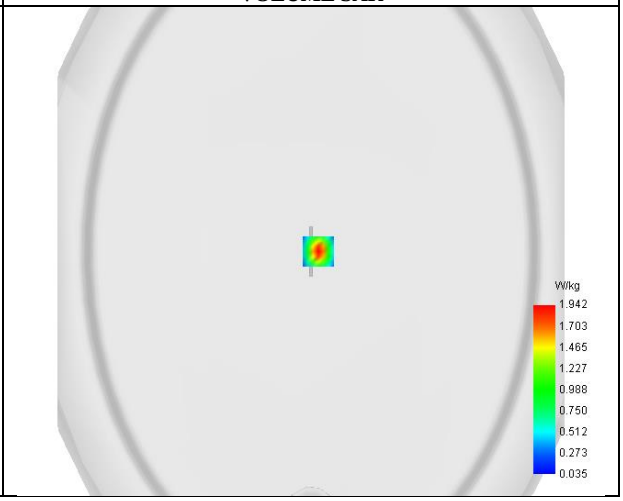
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.06
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.98 mho/m; εr =38.77; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=15dBm
Ambient temperature (℃): 20.2, Liquid temperature (℃): 20.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

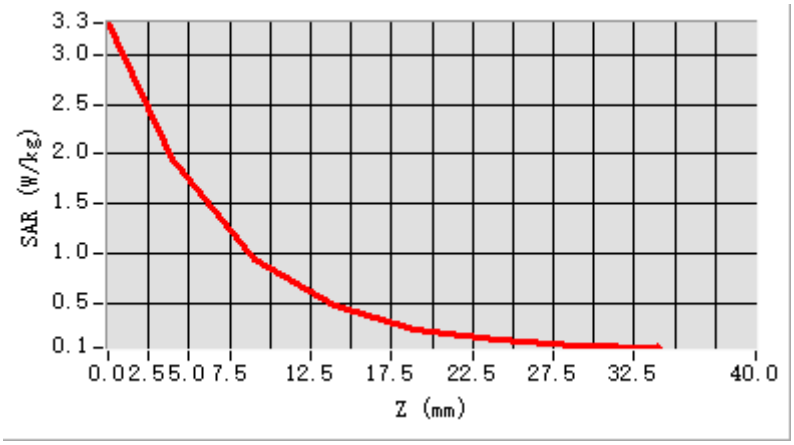
Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

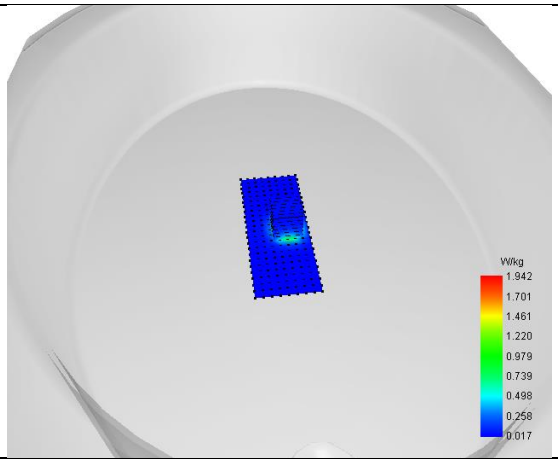
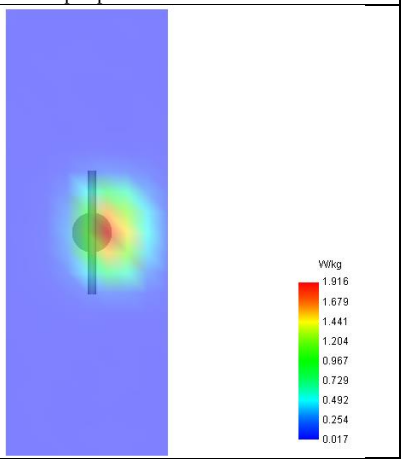
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=0.00 ; SAR Peak: 3.28 W/kg

SAR 10g (W/Kg)	0.794
SAR 1g (W/Kg)	1.768
Variation (%)	1.780
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.336588

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.317	1.942	0.939	0.471	0.245	0.135	0.083



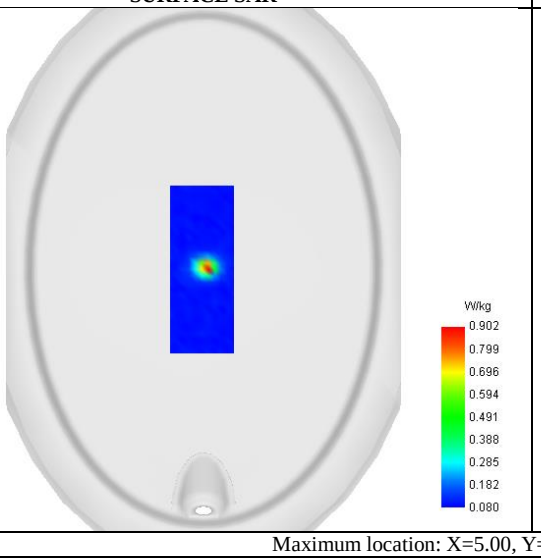
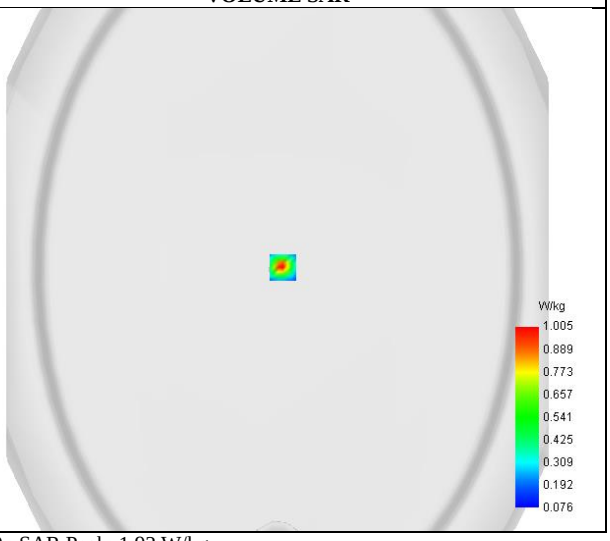
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 16, 2025**
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=1.53
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.58 mho/m; εr =35.25; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm

Ambient temperature (℃): 20.2, Liquid temperature (℃): 19.8

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

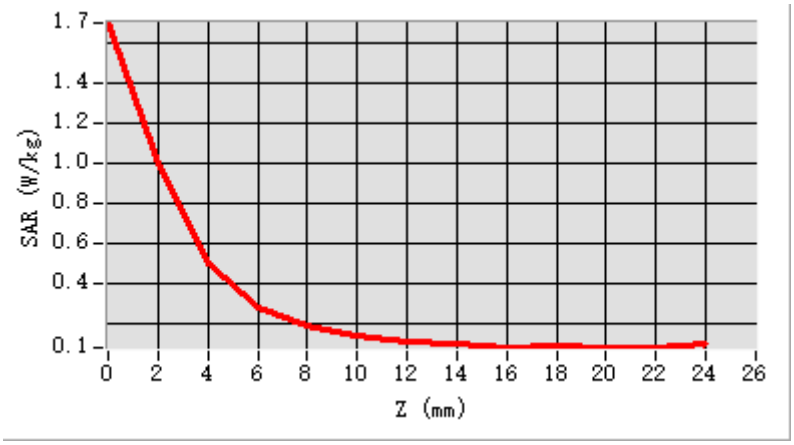
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

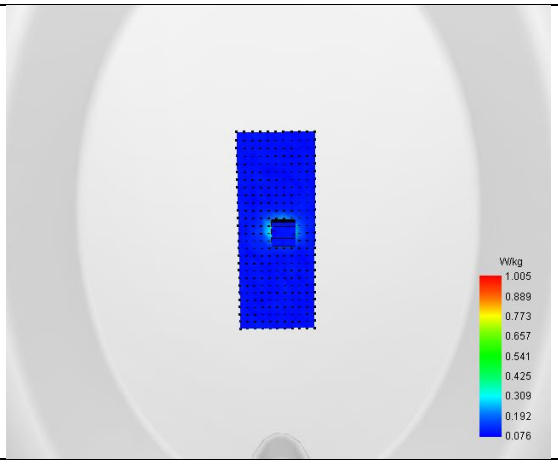
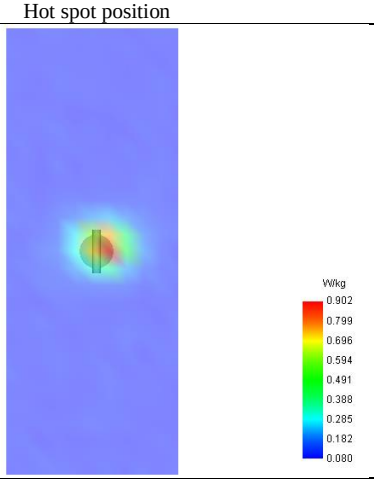
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=2.00 ; SAR Peak: 1.92 W/kg

SAR 10g (W/Kg)	0.224
SAR 1g (W/Kg)	0.689
Variation (%)	-5.380
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.134803

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.795	1.405	0.704	0.478	0.385	0.237	0.189	0.098	0.080	0.087	0.084	0.083



3D screen shot	Hot spot position
	

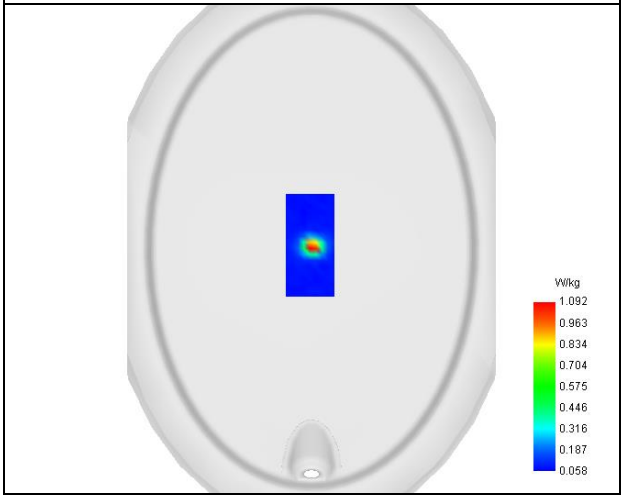
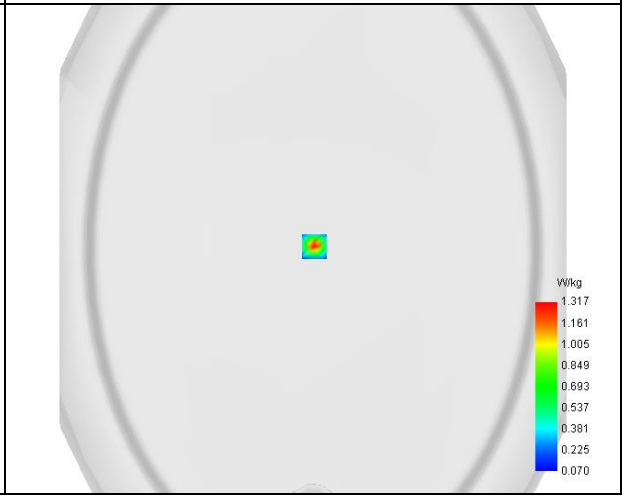
Test Laboratory: AGC Lab **Date: Jan. 18, 2025**
System Check Head 5300 MHz
DUT: Dipole 5000MHz Type: SID5000
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53
Frequency: 5300 MHz; Medium parameters used: f = 5300 MHz; σ =4.63 mho/m; εr =35.73; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm

Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

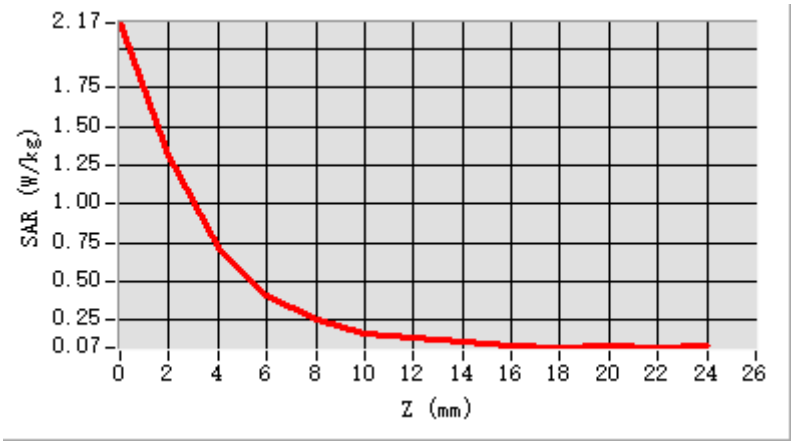
Configuration/System Check 5300 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5300 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

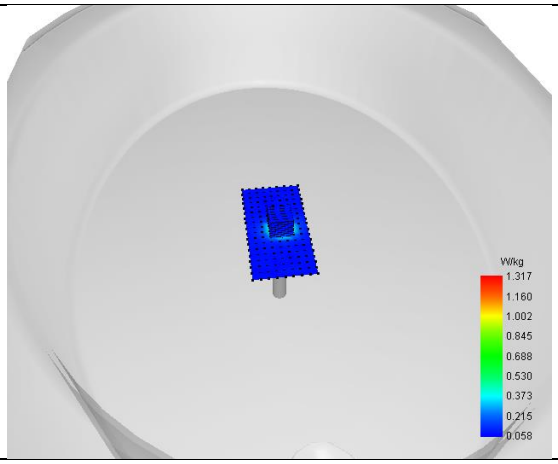
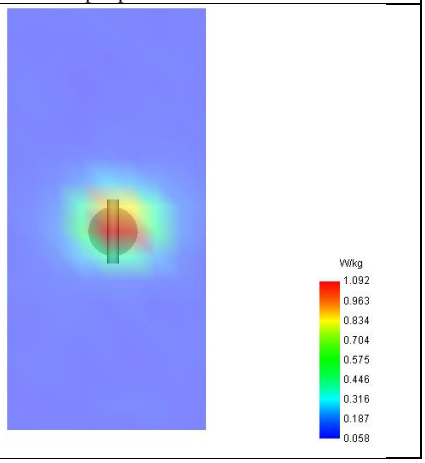
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=2.00 ; SAR Peak: 2.24 W/kg

SAR 10g (W/Kg)	0.251
SAR 1g (W/Kg)	0.739
Variation (%)	6.810
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.776815

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.167	1.317	0.722	0.411	0.249	0.160	0.135	0.107	0.092	0.077	0.086	0.073



3D screen shot	Hot spot position
	

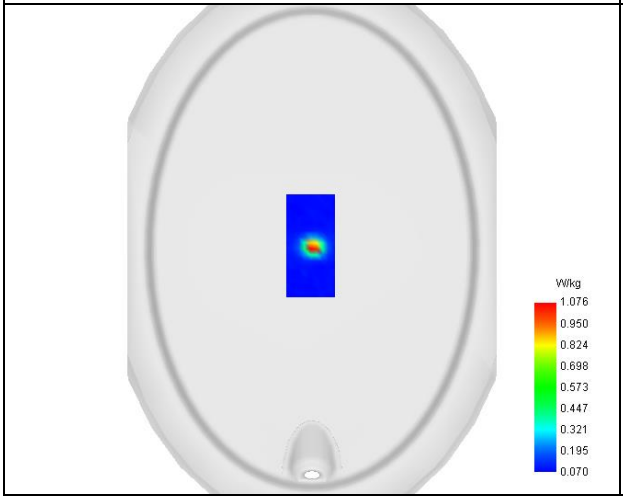
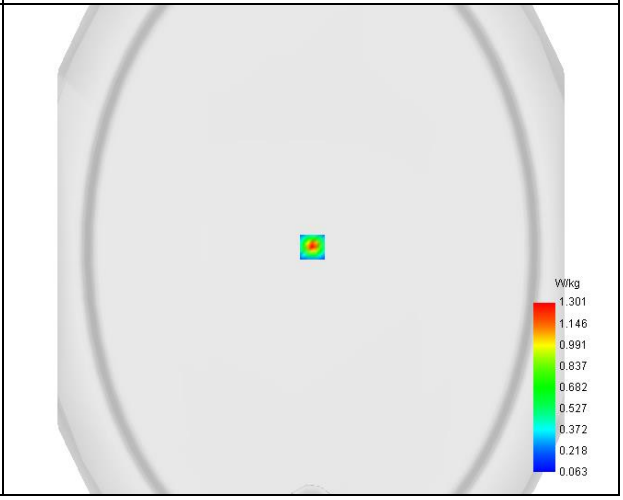
Test Laboratory: AGC Lab **Date: Jan. 17, 2025**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5800
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.19 mho/m; εr =34.57; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm

Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

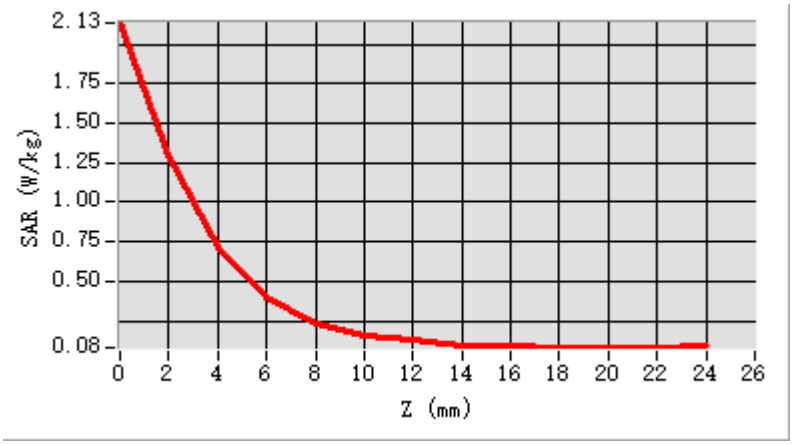
Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

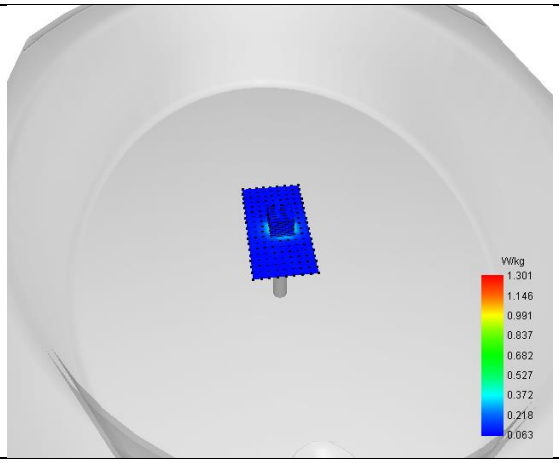
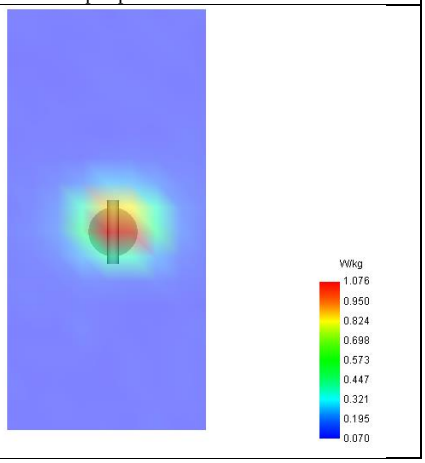
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=2.00 ; SAR Peak: 2.20 W/kg

SAR 10g (W/Kg)	0.236
SAR 1g (W/Kg)	0.733
Variation (%)	-12.860
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.153332

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.134	1.301	0.717	0.402	0.233	0.162	0.129	0.088	0.096	0.081	0.085	0.087



3D screen shot	Hot spot position
	

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
GSM 850 Mid- Body- Front (MS) <SIM 1>
DUT: POS Terminal; Type: P3

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.92 mho/m; εr = 40.87; ρ= 1000 kg/m³ ; Phantom section: Flat Section

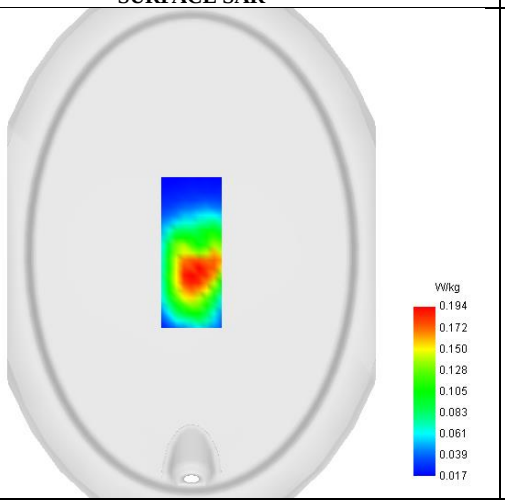
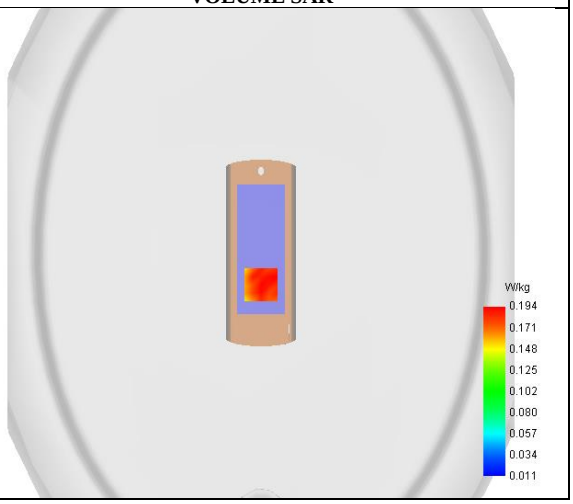
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

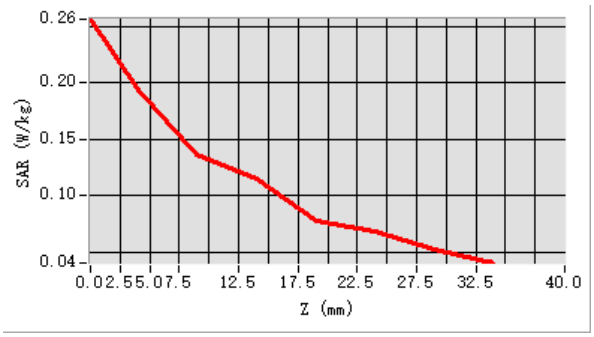
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

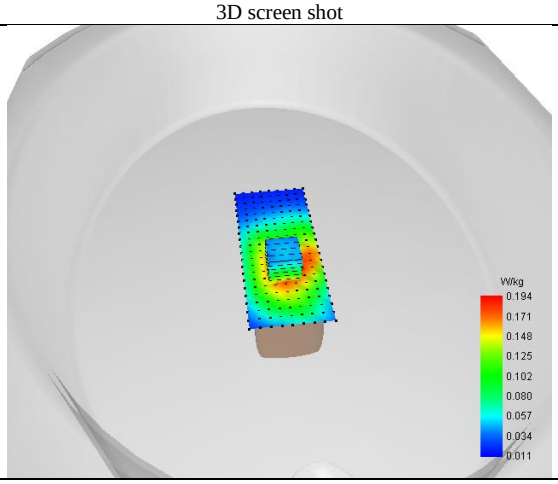
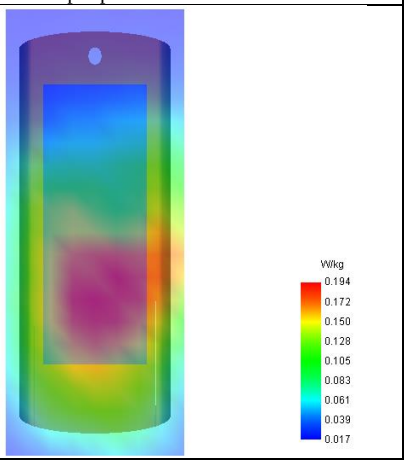
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-31.00 ; SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.128
SAR 1g (W/Kg)	0.189
Variation (%)	-4.660
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	72.525187

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.256	0.194	0.136	0.115	0.077	0.068	0.053



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
GPRS 850 Mid- Body- Front (4up)
DUT: POS Terminal; Type: P3

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.92 mho/m; εr = 40.87; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

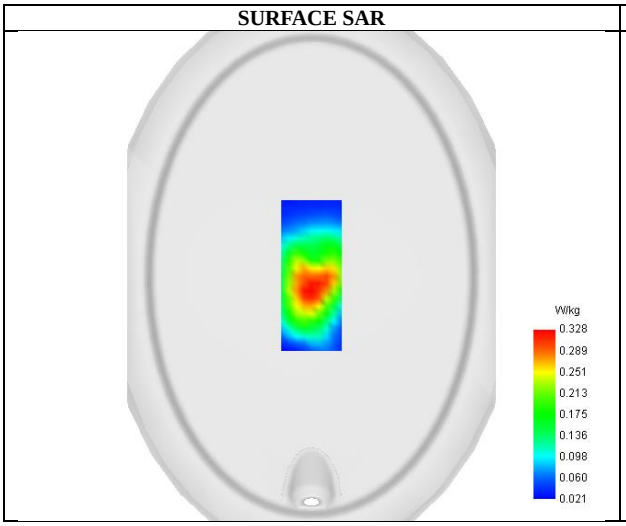
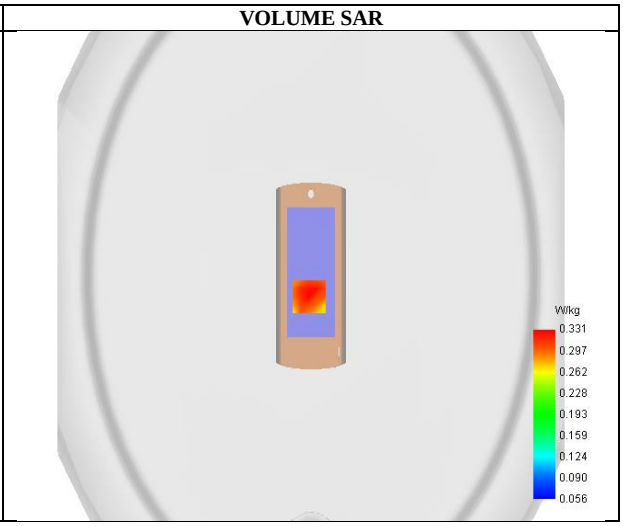
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

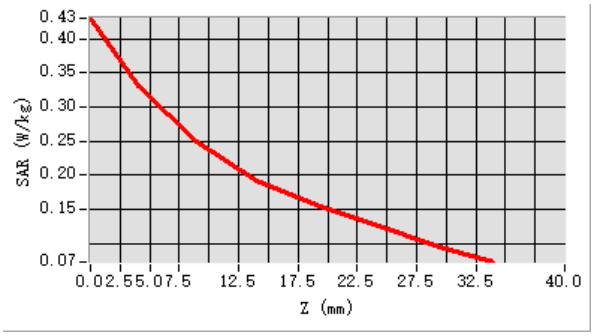
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

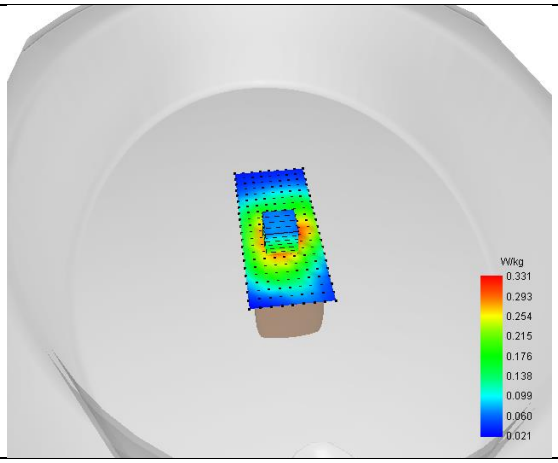
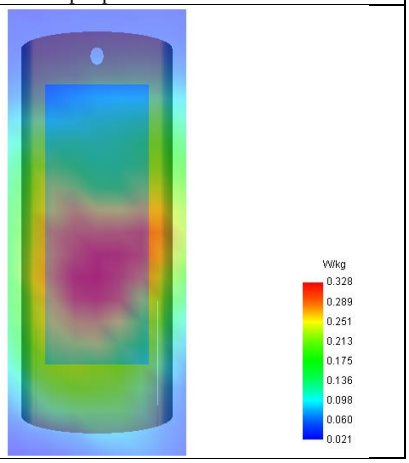
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-20.00 ; SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.235
SAR 1g (W/Kg)	0.325
Variation (%)	-0.200
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.525095

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.430	0.331	0.250	0.192	0.156	0.128	0.096



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: POS Terminal; Type: P3

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.32 mho/m; εr =40.68; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

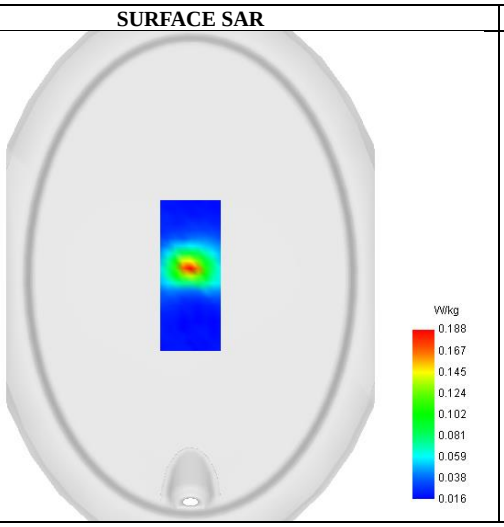
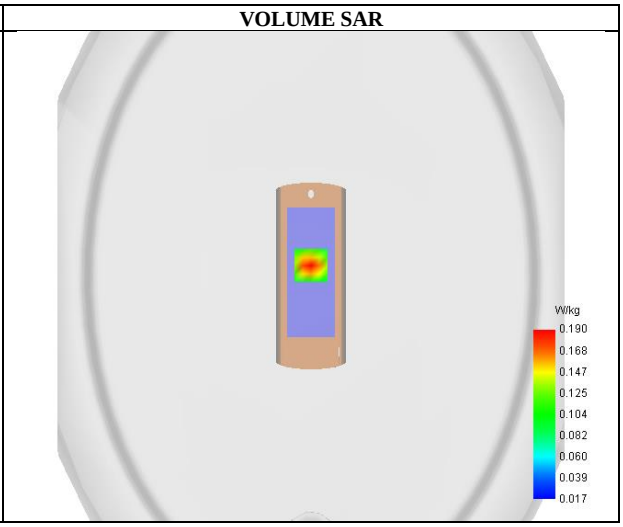
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

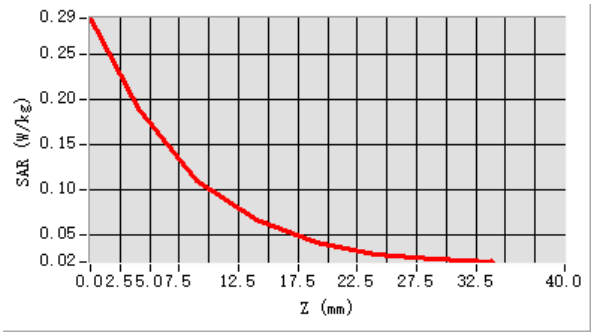
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

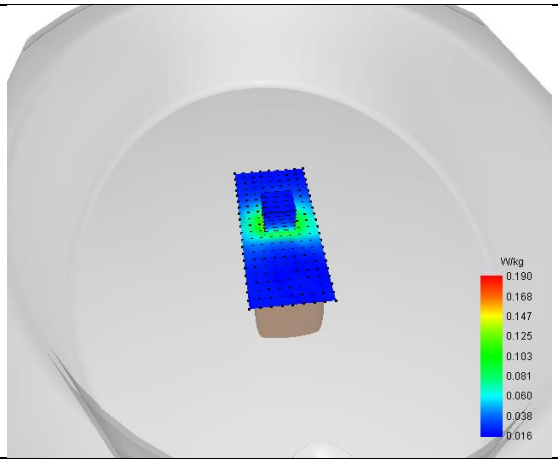
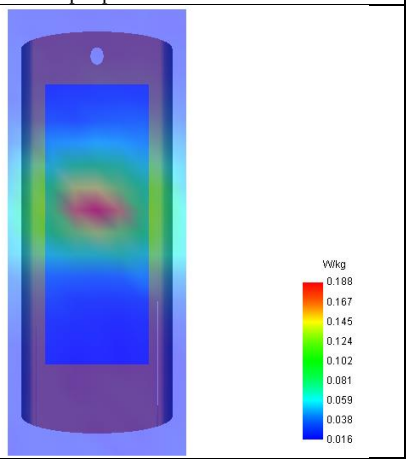
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=10.00 ; SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.101
SAR 1g (W/Kg)	0.179
Variation (%)	-1.280
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	57.844913

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.291	0.190	0.110	0.066	0.042	0.029	0.023



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
GPRS 1900 Mid-Body-Back (4up)
DUT: POS Terminal; Type: P3

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.32 mho/m; εr =40.68; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

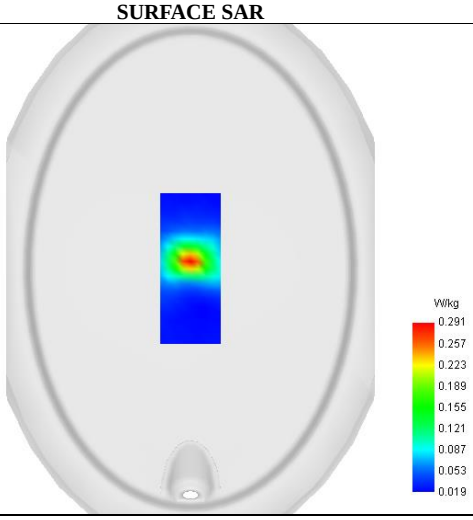
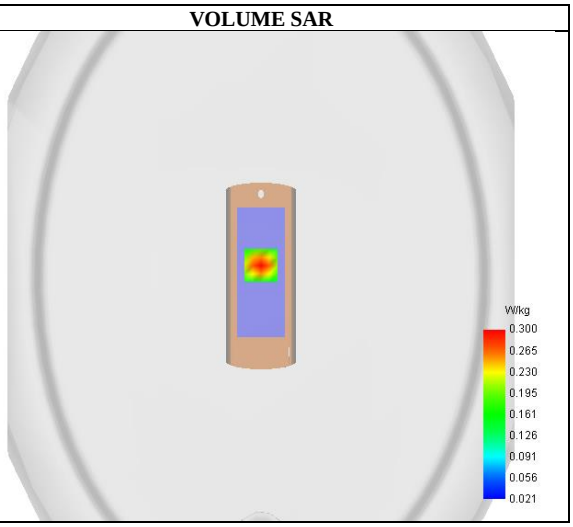
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

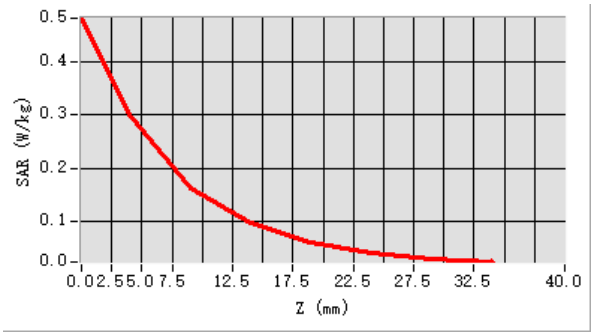
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

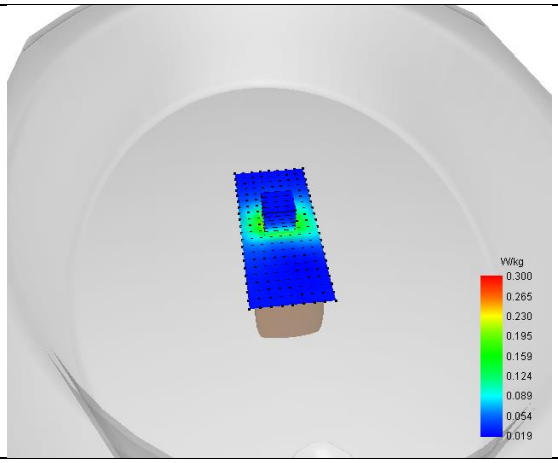
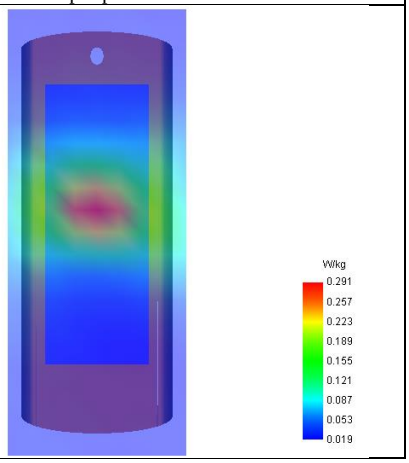
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=10.00 ; SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.156
SAR 1g (W/Kg)	0.285
Variation (%)	-1.310
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	54.587916

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.482	0.300	0.164	0.097	0.061	0.041	0.032



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
WCDMA Band II Mid-Body-Towards Phantom (RMC 12.2kbps)
DUT: POS Terminal; Type: P3

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ=1.32 mho/m; εr =40.68; ρ= 1000 kg/m³ ; Phantom section: Flat Section

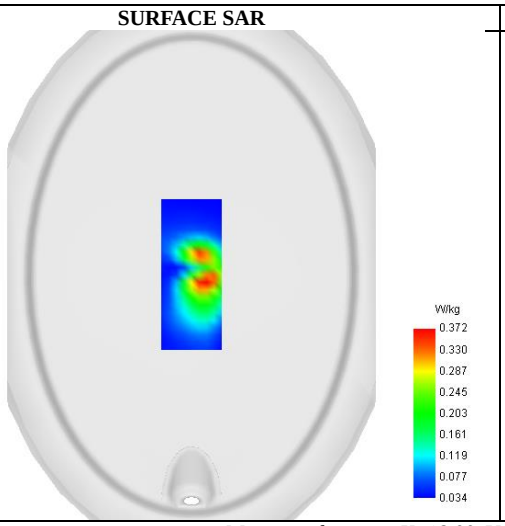
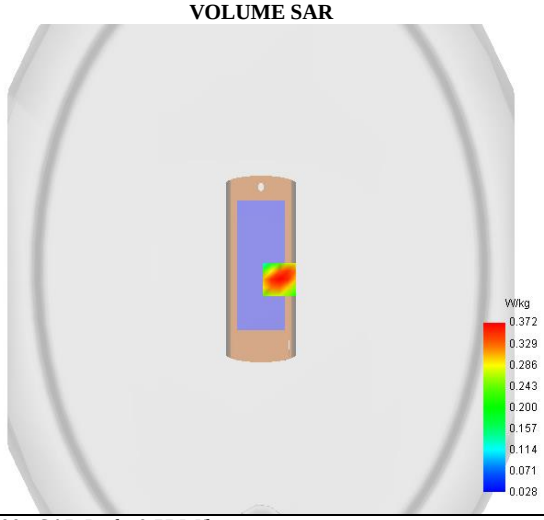
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

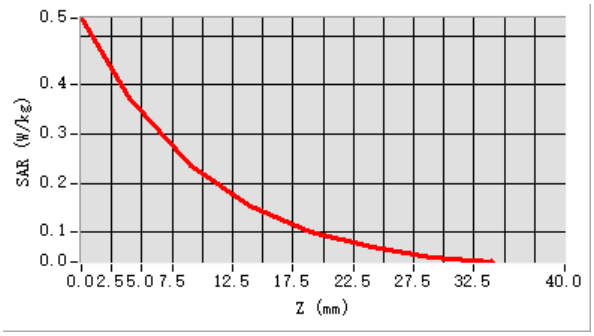
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

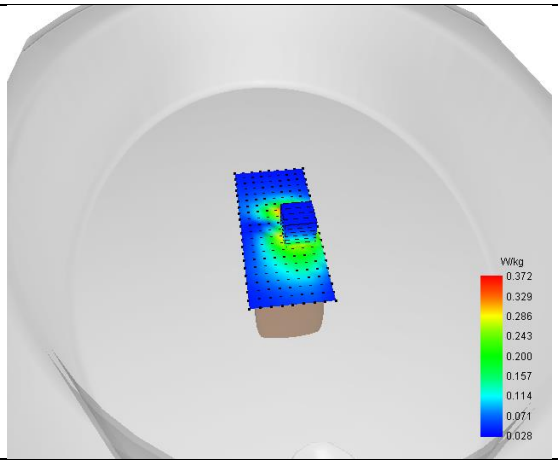
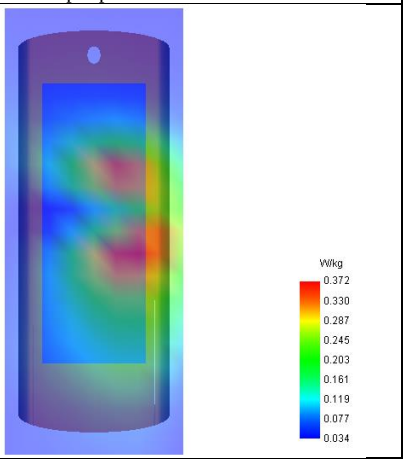
SURFACE SAR	VOLUME SAR
	

Maximum location: X=18.00, Y=-10.00 ; SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.216
SAR 1g (W/Kg)	0.356
Variation (%)	-5.810
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	63.193530

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.535	0.372	0.235	0.152	0.100	0.069	0.050



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 23, 2025**
WCDMA Band IV Mid-Body- Towards Phantom (RMC)
DUT: POS Terminal; Type: P3

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.28; Frequency:1732.4 MHz; Medium parameters used: f = 1750 MHz; σ=1.36 mho/m; εr =40.43; ρ= 1000 kg/m^3; Phantom section: Flat Section

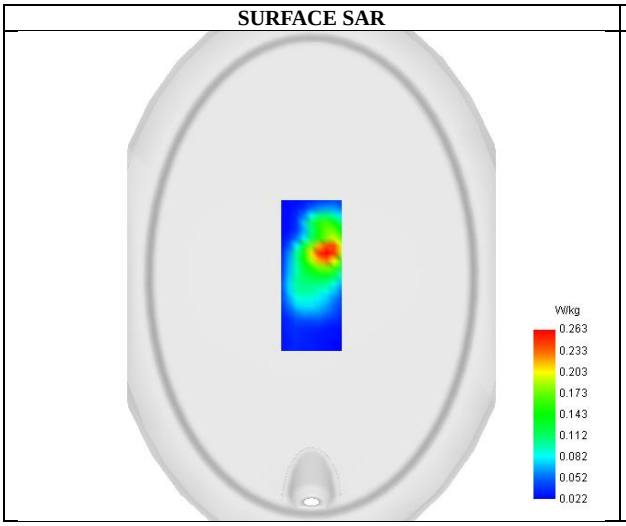
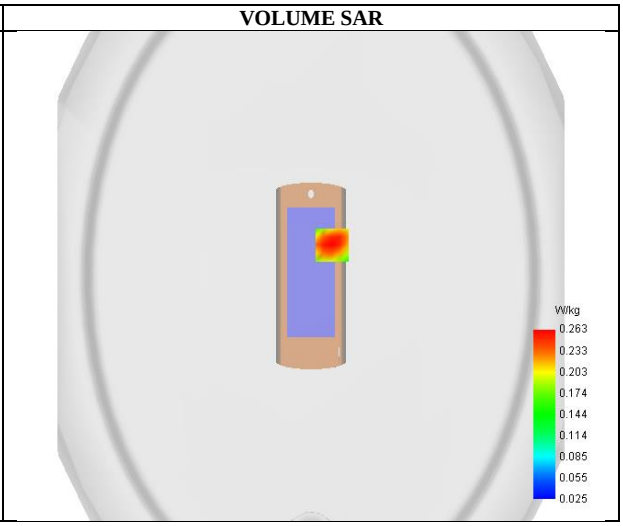
Ambient temperature (℃): 20.6, Liquid temperature (℃): 20.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

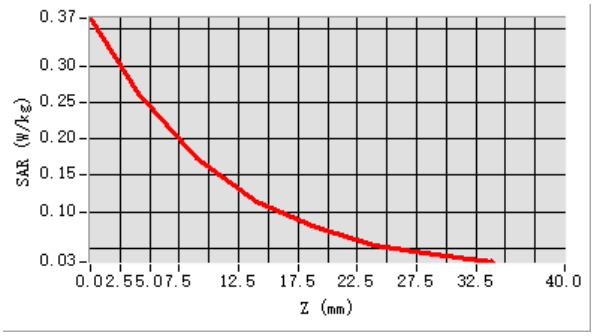
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

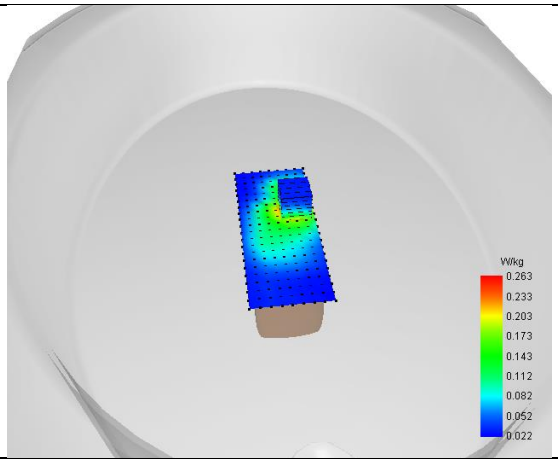
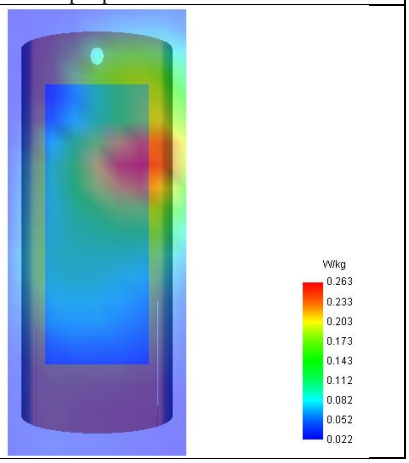
SURFACE SAR	VOLUME SAR
	

Maximum location: X=20.00, Y=30.00 ; SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.161
SAR 1g (W/Kg)	0.253
Variation (%)	-0.090
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	65.833983

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.365	0.263	0.173	0.114	0.078	0.055	0.041



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**

WCDMA Band Ⅴ Mid-Body- Towards Phantom (RMC)

DUT: POS Terminal; Type: P3

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.89; Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ= 0.92 mho/m; εr = 40.87; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

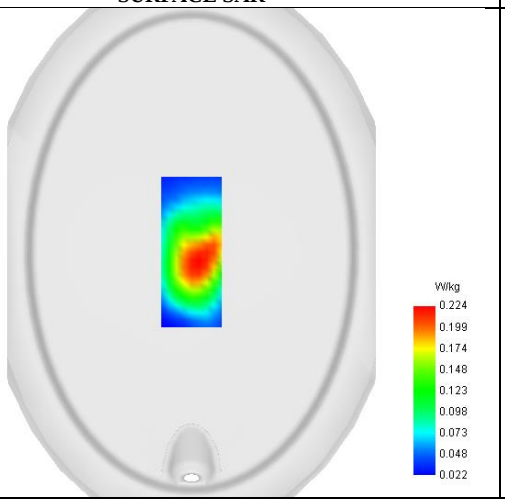
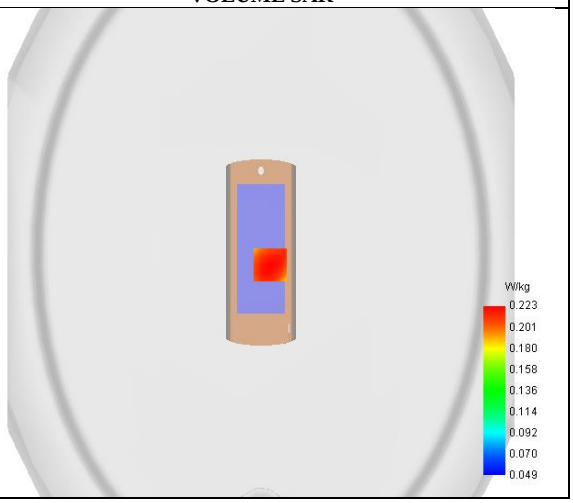
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

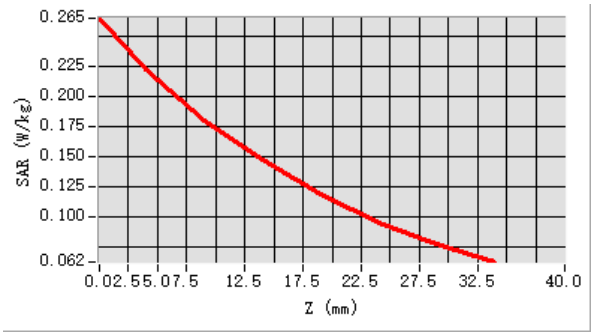
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

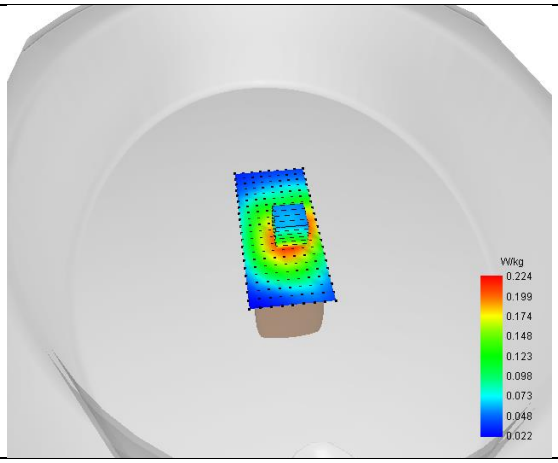
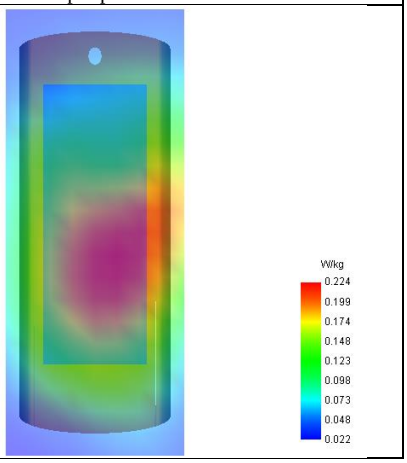
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-12.00 ; SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.166
SAR 1g (W/Kg)	0.218
Variation (%)	-0.960
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	80.908880

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.265	0.223	0.181	0.147	0.119	0.096	0.077



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
LTE Band 2 Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

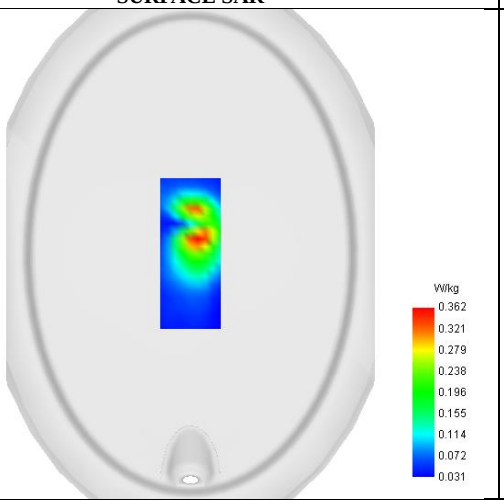
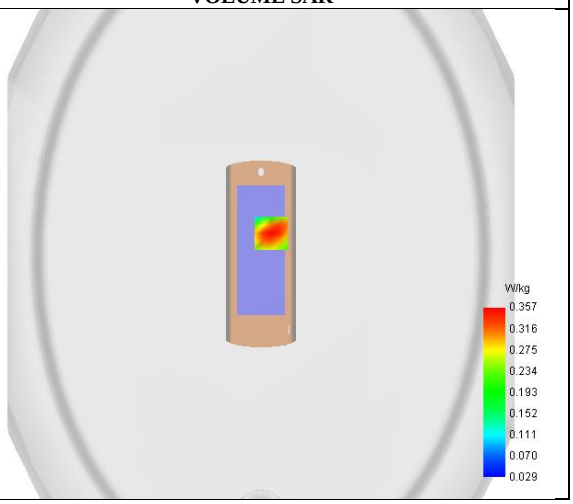
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08; Frequency:1880MHz; Medium parameters used: f = 1900 MHz; σ= 1.32 mho/m; εr =40.68; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

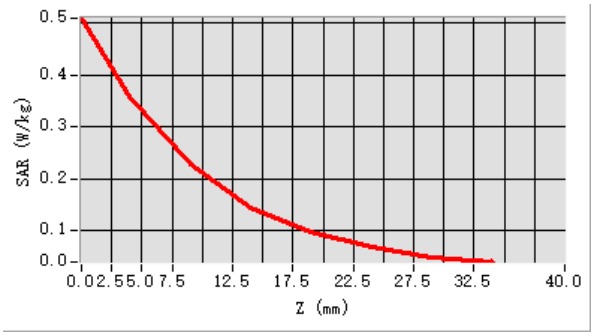
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

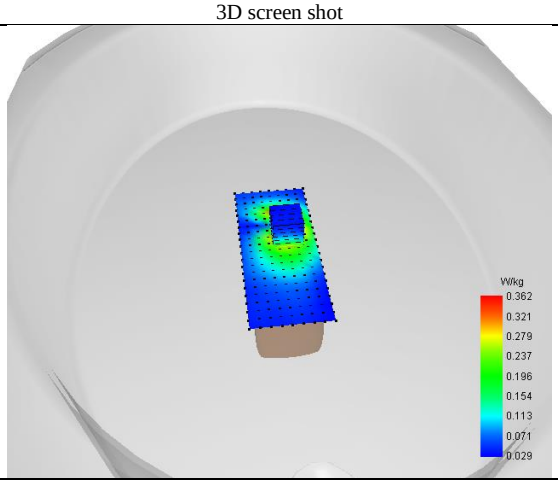
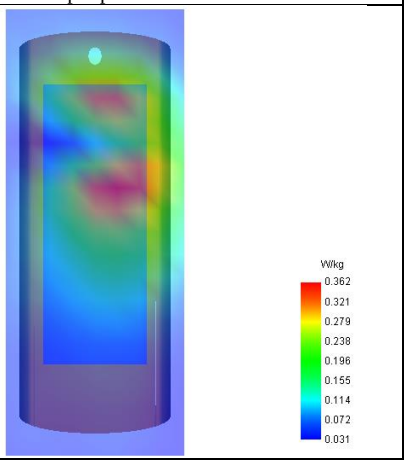
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=20.00 ; SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.208
SAR 1g (W/Kg)	0.340
Variation (%)	-3.430
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.080766

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.510	0.357	0.229	0.143	0.098	0.067	0.049



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 23, 2025**
LTE Band 4 Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

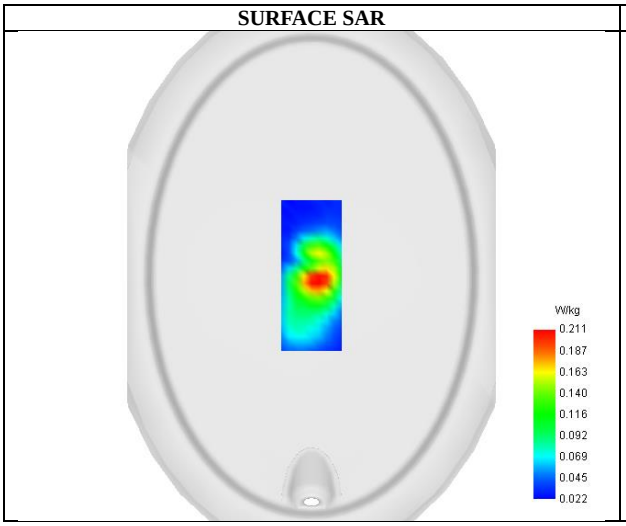
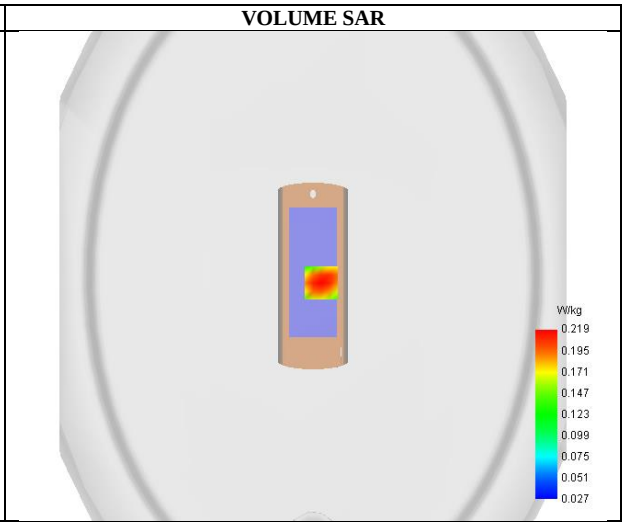
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.36 mho/m; εr =40.43; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 20.6, Liquid temperature (℃): 20.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 4 Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

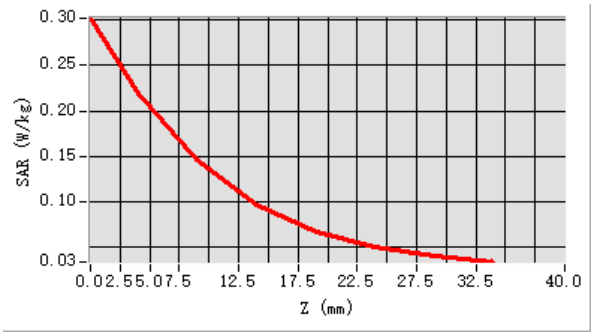
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

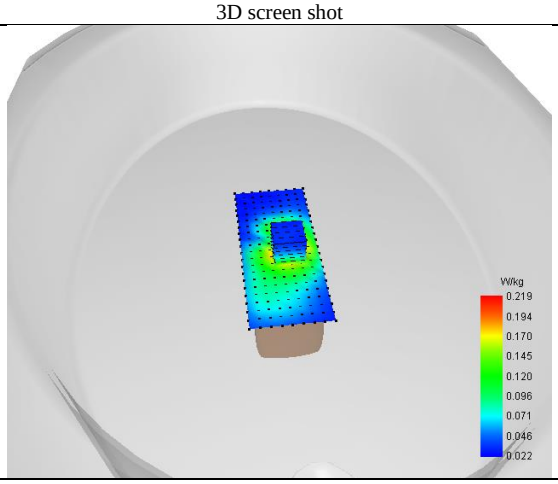
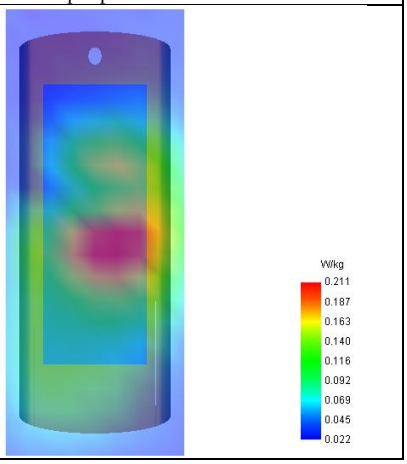
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-7.00 ; SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.210
Variation (%)	-2.920
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	66.582110

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.302	0.219	0.146	0.097	0.068	0.050	0.040



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
LTE Band 5 Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

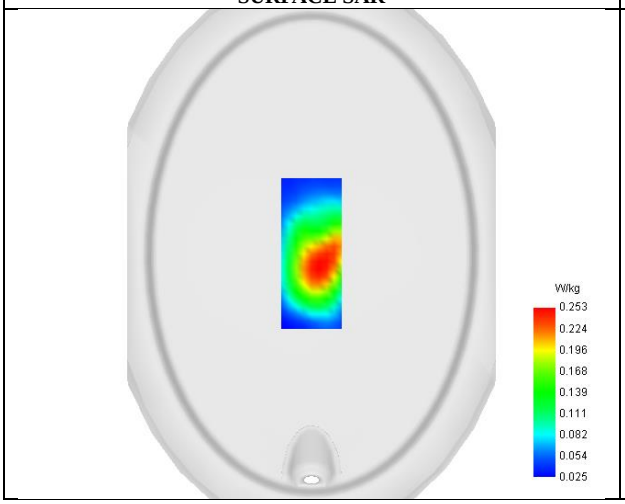
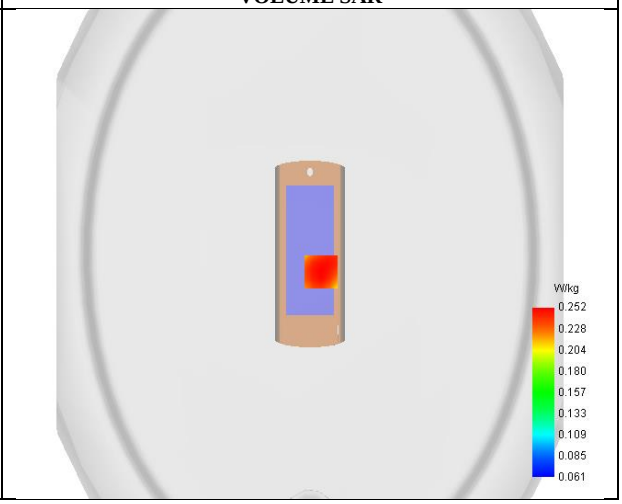
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.89
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.92mho/m; εr =40.87; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

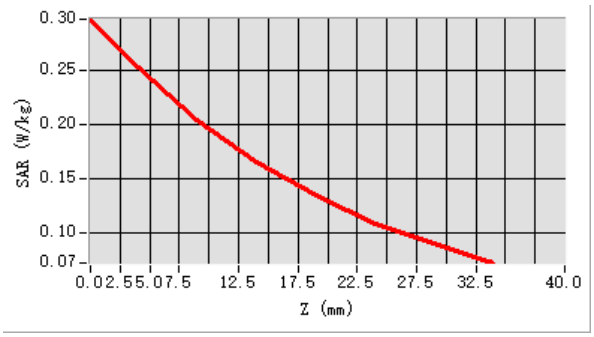
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

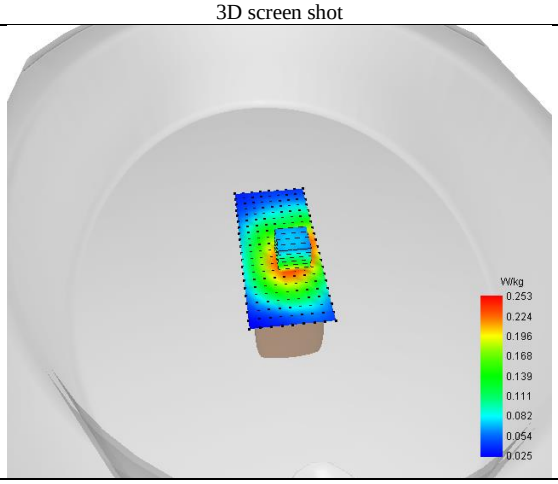
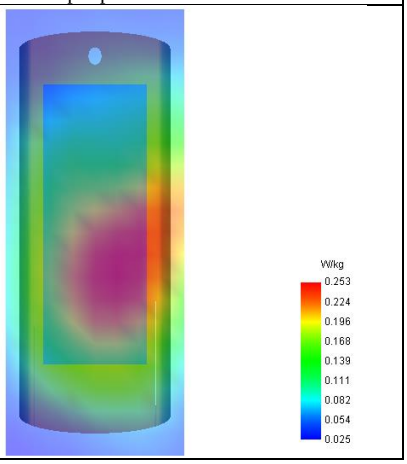
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=-17.00 ; SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.191
SAR 1g (W/Kg)	0.246
Variation (%)	-1.170
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	80.817929

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.297	0.252	0.204	0.166	0.134	0.108	0.090



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
LTE Band 7 High-Body-Back (1RB#0)
DUT: POS Terminal; Type: P3

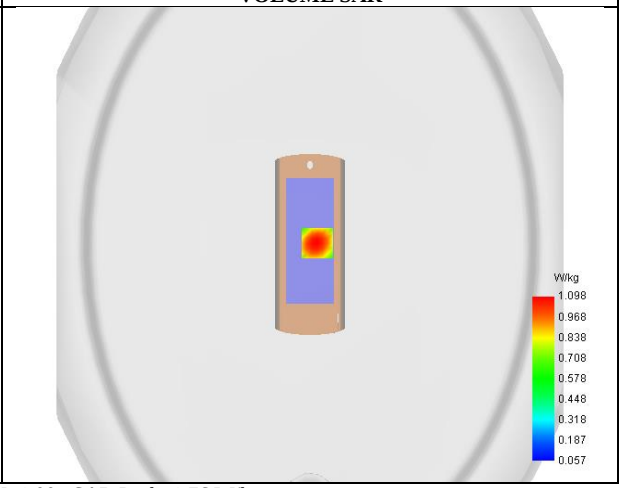
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=2.06
Frequency: 2560MHz; Medium parameters used: f =2600 MHz; σ=1.91 mho/m; εr =40.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.2, Liquid temperature (℃): 20.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE BAND 7 High-Body-Back /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 7 High-Body-Back /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

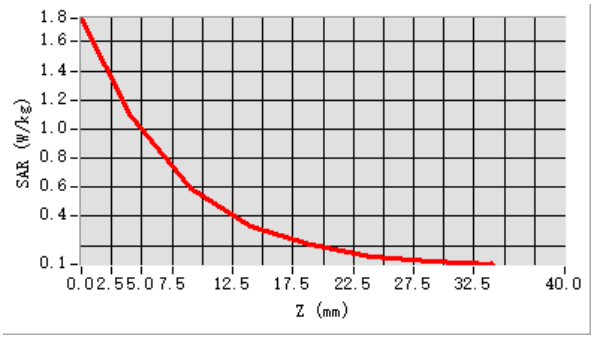
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Back
Band	LTE BAND 7
Channels	High
Signal	OFDM (Crest factor: 1.0)

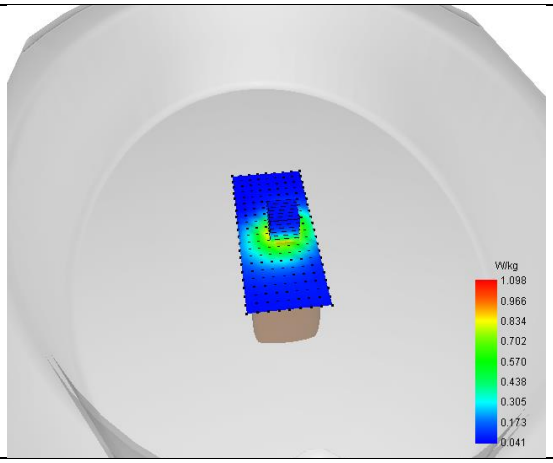
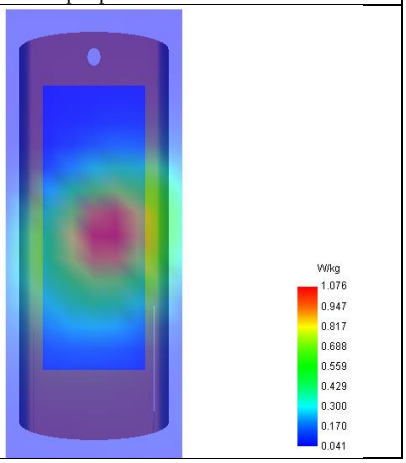
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=1.00 ; SAR Peak: 1.76 W/kg

SAR 10g (W/Kg)	0.599
SAR 1g (W/Kg)	1.057
Variation (%)	-0.800
Horizontal validation criteria: minimum distance (mm)	21.213203
Vertical validation criteria: SAR ratio M2/M1 (%)	54.241767

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.761	1.098	0.596	0.334	0.201	0.126	0.088



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 21, 2025**
LTE Band 12 Mid-Body-Edge 2(Right) (1 RB#0)
DUT: POS Terminal; Type: P3

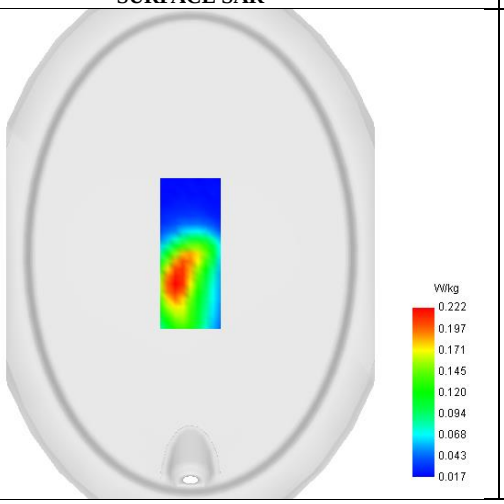
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=2.04;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.87 mho/m; εr =43.09; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.7, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 12 Mid-Body-Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 Mid-Body-Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

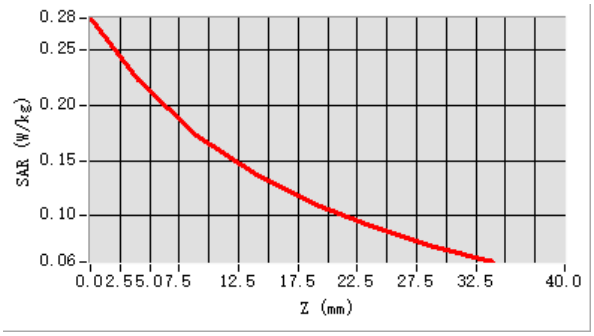
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Edge 2(Right)
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

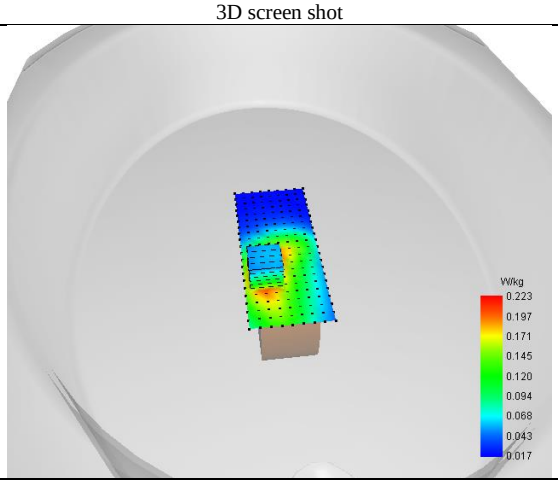
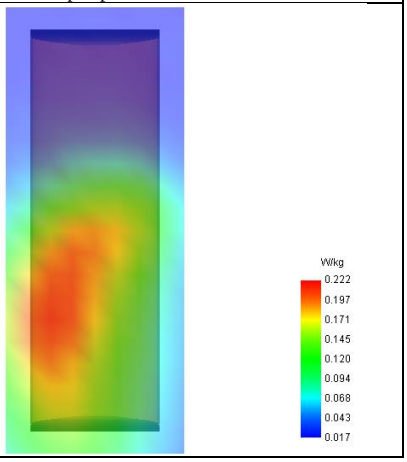
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-19.00, Y=-39.00 ; SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.222
Variation (%)	-0.750
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	77.290710

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.279	0.223	0.172	0.137	0.110	0.090	0.072



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 21, 2025**
LTE Band 17 Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

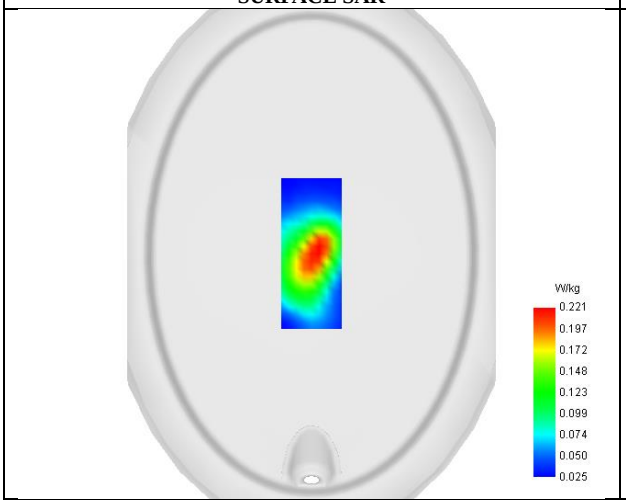
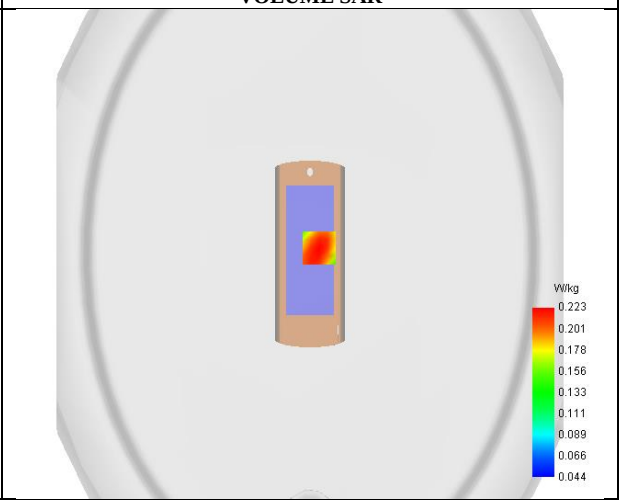
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=2.04;
Frequency: 710 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.86; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.7, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 17 Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 17 Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

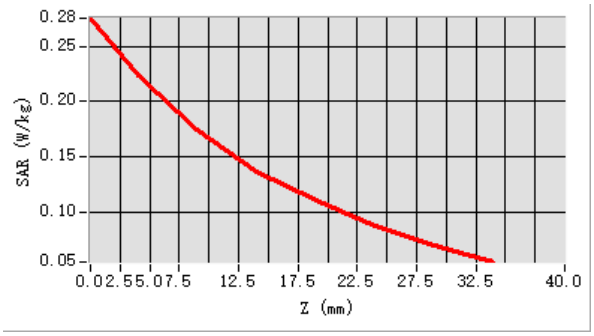
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 17
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

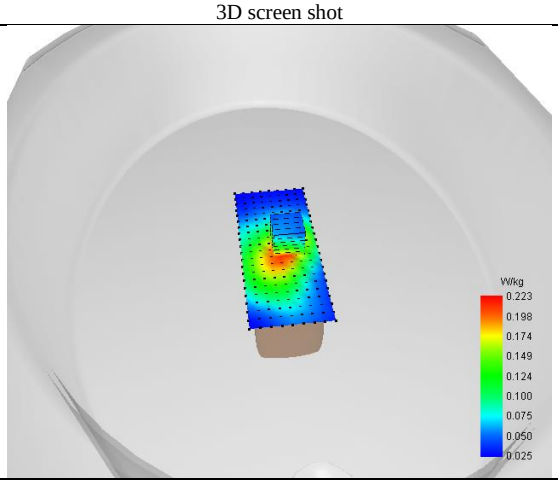
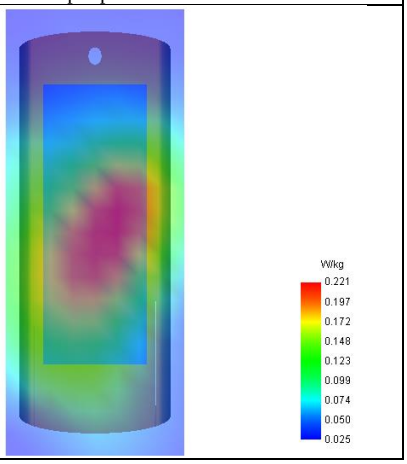
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=6.00 ; SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.149
SAR 1g (W/Kg)	0.222
Variation (%)	-1.890
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	77.904513

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.276	0.223	0.174	0.136	0.110	0.088	0.069



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 22, 2025**
LTE Band 25 Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

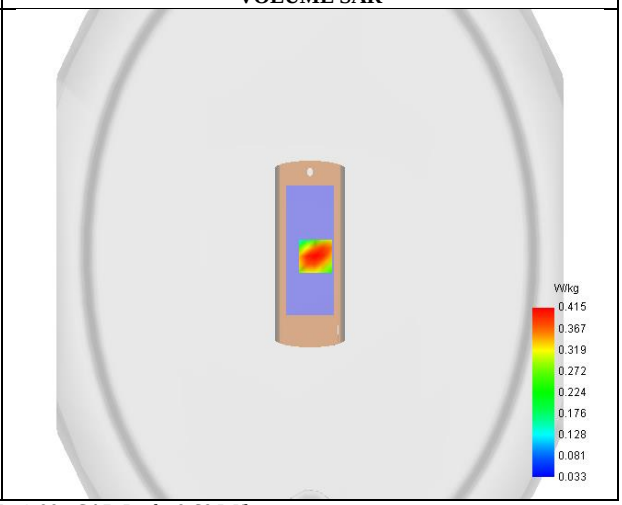
Communication System: LTE; Communication System Band: LTE Band 25; Duty Cycle:1:1; Conv.F=2.08; Frequency:1882.5MHz; Medium parameters used: f = 1900 MHz; σ= 1.34 mho/m; εr =39.86; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 25 Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 25 Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

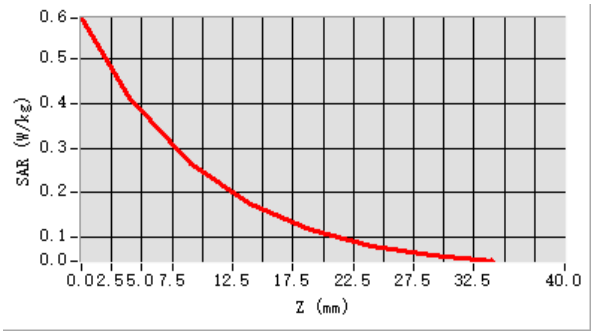
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 25
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

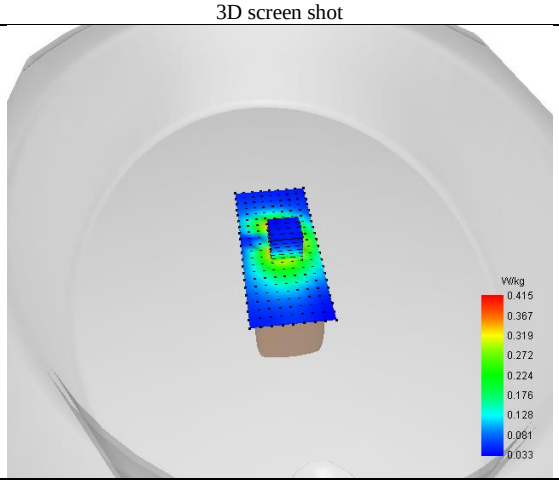
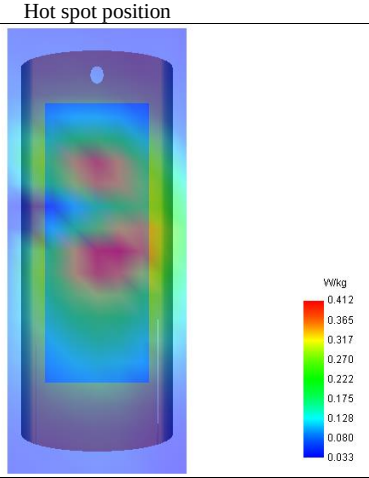
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-2.00 ; SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.245
SAR 1g (W/Kg)	0.397
Variation (%)	-2.790
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	63.719961

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.592	0.415	0.264	0.172	0.115	0.079	0.059



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
LTE Band 26a Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

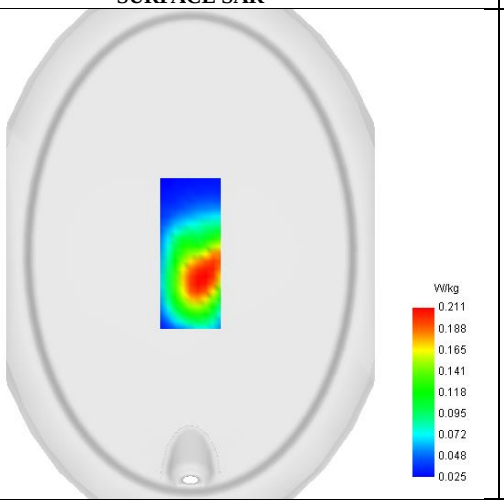
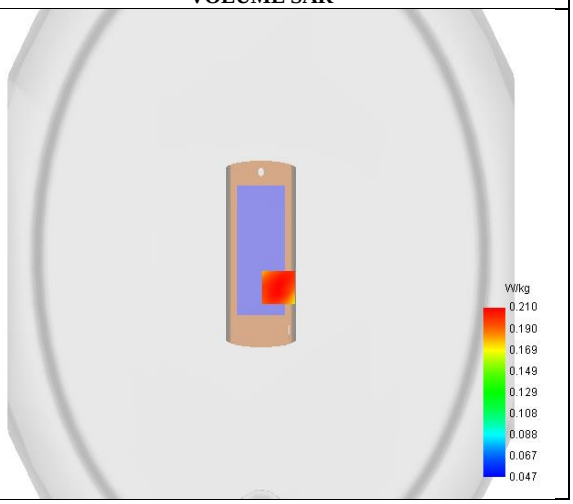
Communication System: LTE; Communication System Band: LTE Band 26a; Duty Cycle:1:1; Conv.F=1.89
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.92 mho/m; εr =40.87; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 26a Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26a Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

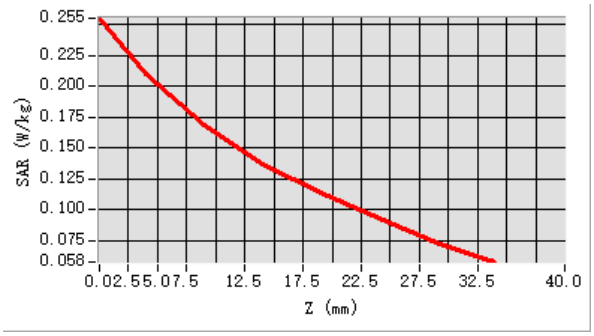
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 26a
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

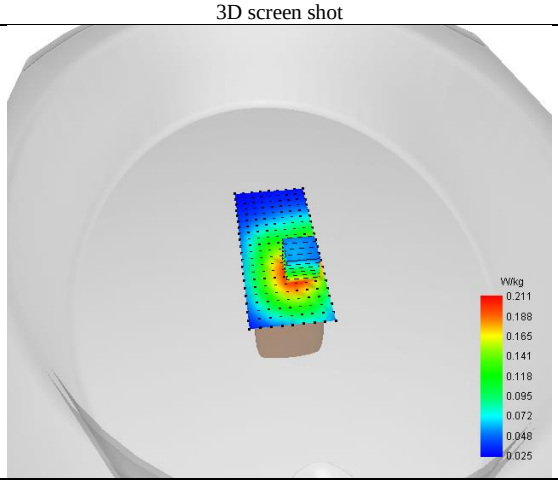
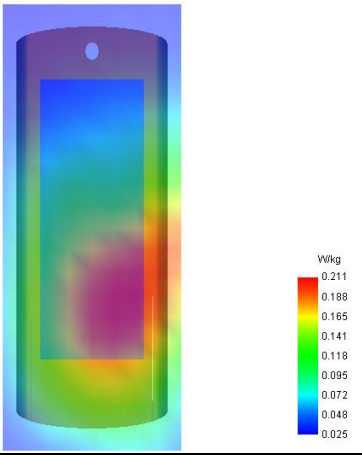
SURFACE SAR	VOLUME SAR
	

Maximum location: X=17.00, Y=-32.00 ; SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.206
Variation (%)	-5.180
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	80.444362

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.255	0.210	0.169	0.137	0.114	0.093	0.074



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 20, 2025**
LTE Band 26b Mid-Body-Front (1 RB#0)
DUT: POS Terminal; Type: P3

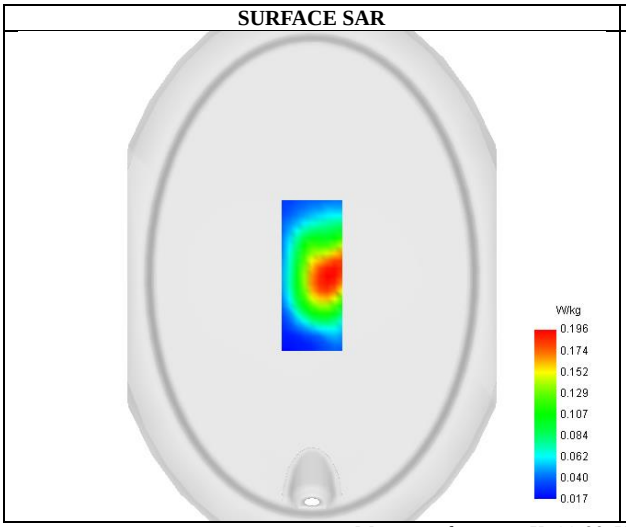
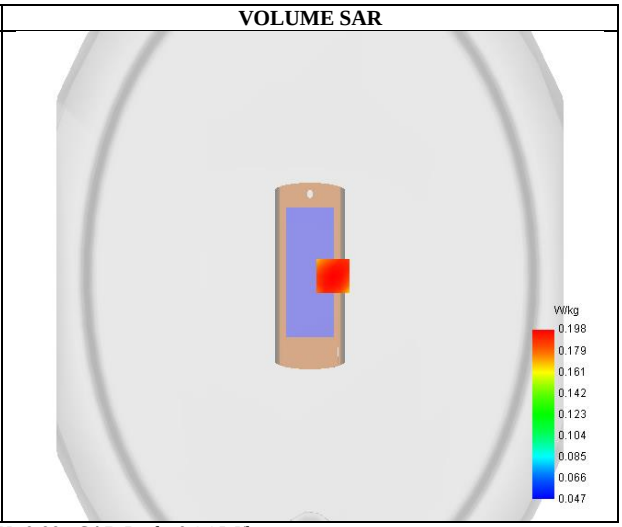
Communication System: LTE; Communication System Band: LTE Band 26b; Duty Cycle:1:1; Conv.F=1.89
Frequency: 819 MHz; Medium parameters used: f = 835 MHz; σ=0.88 mho/m; εr =43.73; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE Band 26b Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26b Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

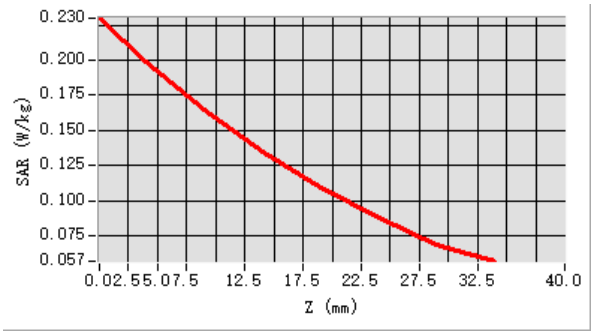
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	LTE Band 26b
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

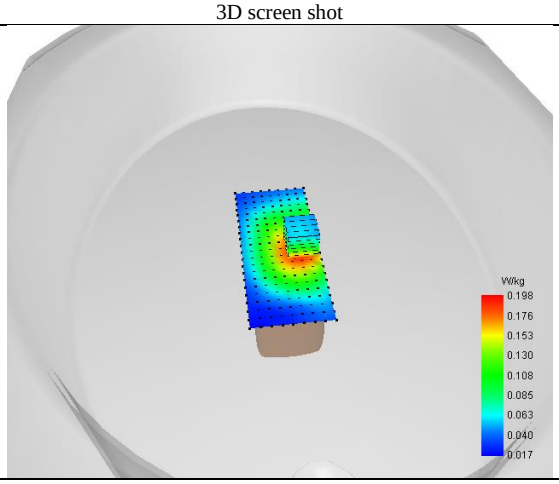
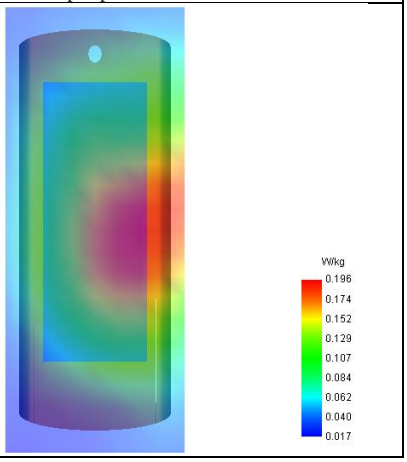
SURFACE SAR	VOLUME SAR
	

Maximum location: X=22.00, Y=0.00 ; SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.151
SAR 1g (W/Kg)	0.195
Variation (%)	0.640
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	83.212173

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.230	0.198	0.165	0.135	0.109	0.088	0.069



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
LTE Band 38 Mid-Body-Back (1RB#0)
DUT: POS Terminal; Type: P3

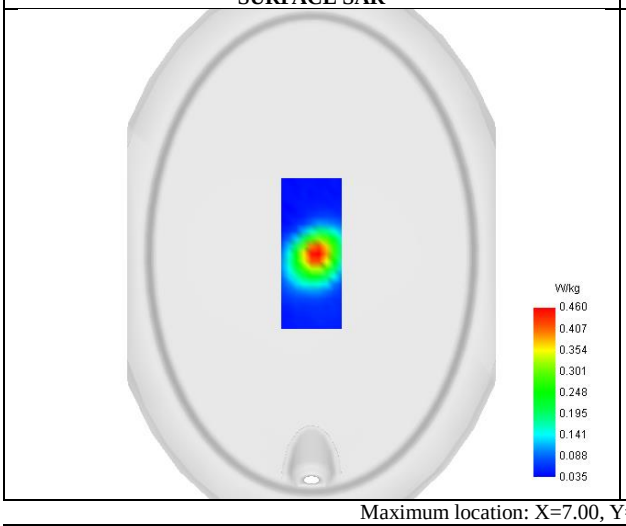
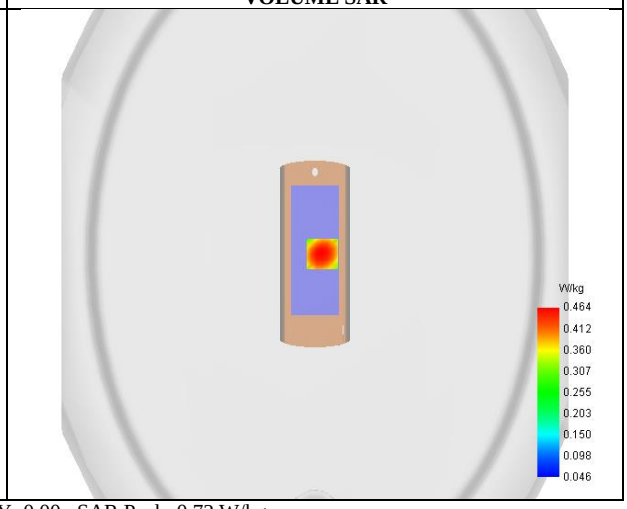
Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=2.06
Frequency: 2595MHz; Medium parameters used: f =2600 MHz; σ=1.95 mho/m; εr =39.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.2, Liquid temperature (℃): 20.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE BAND 38 Mid-Body-Back /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 38 Mid-Body-Back /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

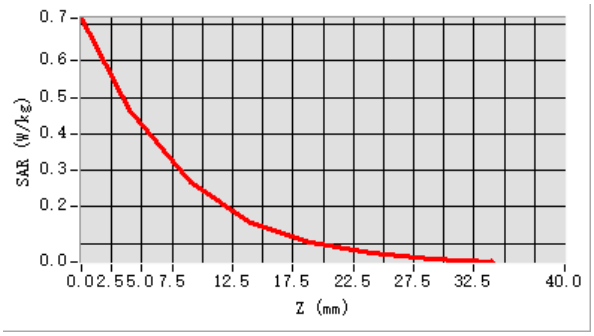
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Back
Band	LTE BAND 38
Channels	Middle
Signal	Crest factor: 1.58

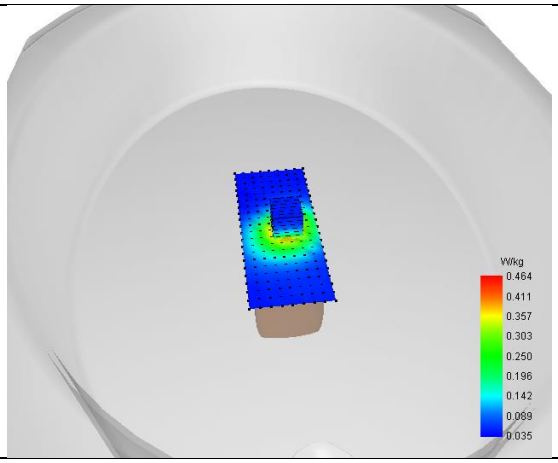
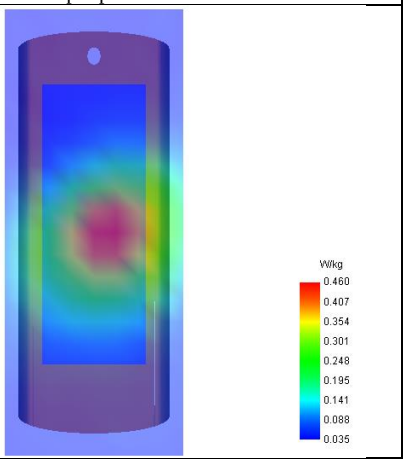
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=0.00 ; SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.264
SAR 1g (W/Kg)	0.447
Variation (%)	-0.510
Horizontal validation criteria: minimum distance (mm)	21.213203
Vertical validation criteria: SAR ratio M2/M1 (%)	57.330347

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.717	0.464	0.266	0.157	0.101	0.074	0.059



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
LTE Band 41 Mid-Body-Back(1RB#0)
DUT: POS Terminal; Type: P3

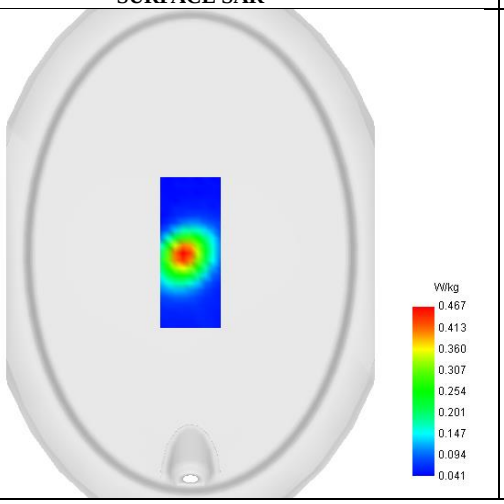
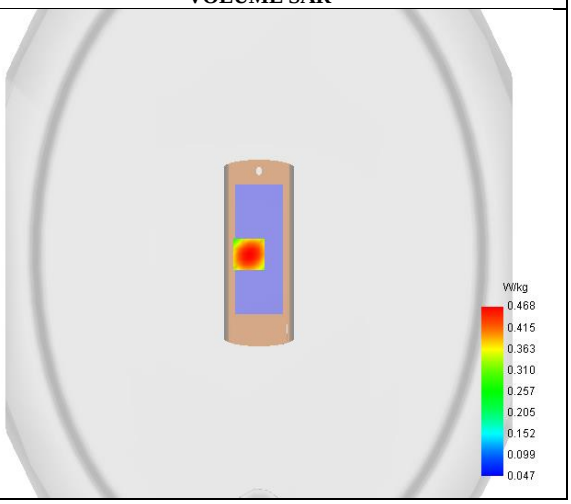
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.06
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.93 mho/m; εr =39.88; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 20.2, Liquid temperature (℃): 20.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ LTE BAND 41 Mid-Body-Back /Area Scan: Measurement grid: dx=8mm, y=8mm
Configuration/ LTE BAND 41 Mid-Body-Back /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

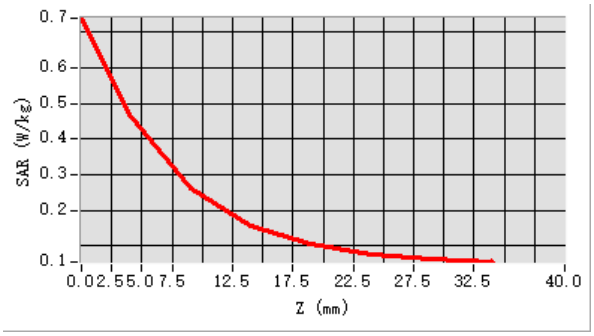
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Back
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)

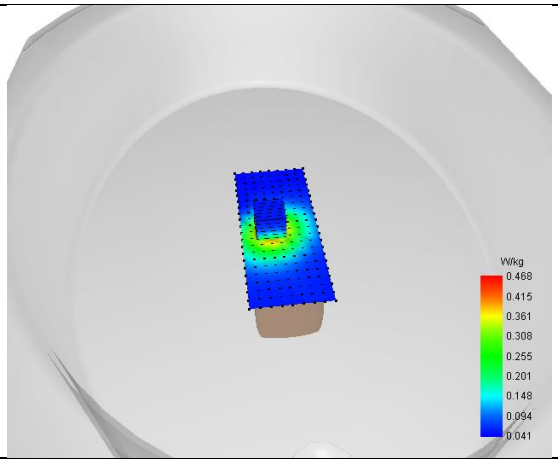
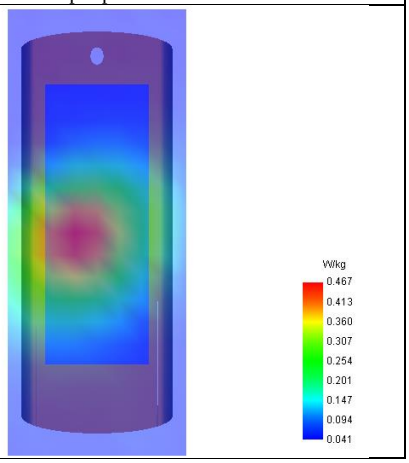
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-1.00 ; SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.262
SAR 1g (W/Kg)	0.454
Variation (%)	-0.610
Horizontal validation criteria: minimum distance (mm)	21.213203
Vertical validation criteria: SAR ratio M2/M1 (%)	56.333164

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.739	0.468	0.264	0.156	0.106	0.075	0.062



3D screen shot	Hot spot position
	

WIFI MODE

Test Laboratory: AGC Lab **Date: Jan. 15, 2025**
802.11b Mid-Body-Worn- Edge 4 (Left)
DUT: POS Terminal; Type: P3

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.16; Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ =1.75mho/m; εr =39.61; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

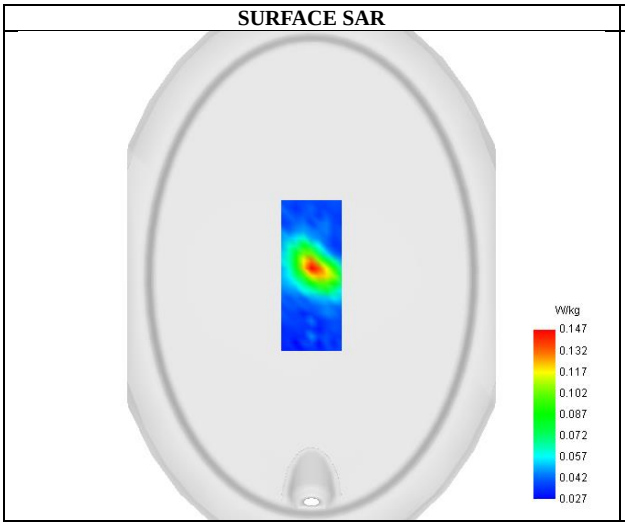
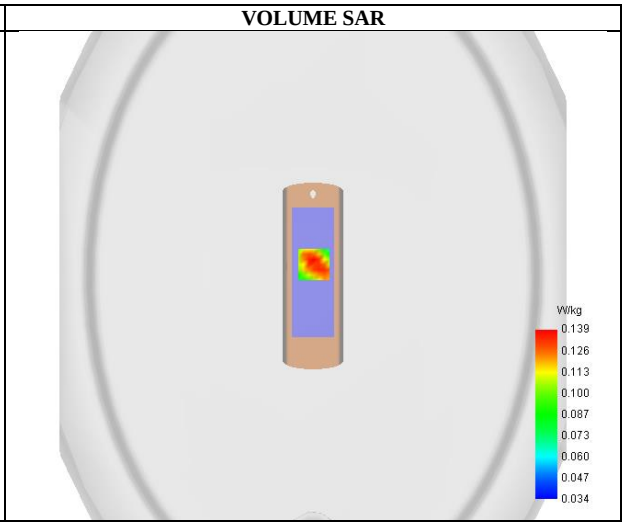
Ambient temperature (℃):20.8, Liquid temperature (℃): 20.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b Mid- Body- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Body- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

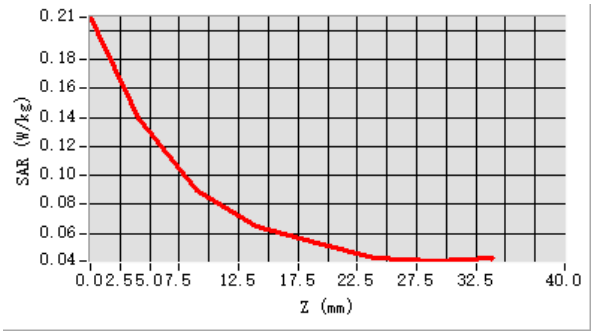
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Edge 4 (Left)
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

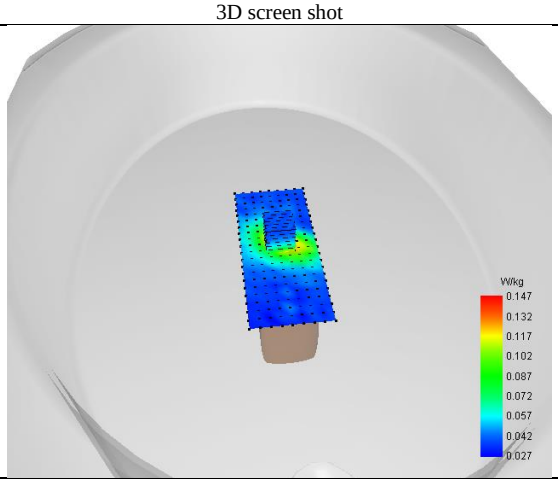
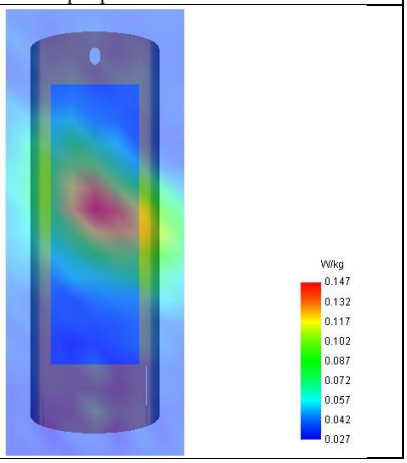
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=11.00 ; SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.133
Variation (%)	-3.330
Horizontal validation criteria: minimum distance (mm)	18.027756
Vertical validation criteria: SAR ratio M2/M1 (%)	60.441687

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.209	0.139	0.089	0.065	0.053	0.043	0.041



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 16, 2025**
802.11a CH40-Back
DUT: POS Terminal; Type: P3

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.35; Frequency: 5200MHz; Medium parameters used: f = 5200 MHz; σ= 4.58mho/m; εr =35.25; ρ= 1000 kg/m³ ; Phantom section: Flat Section

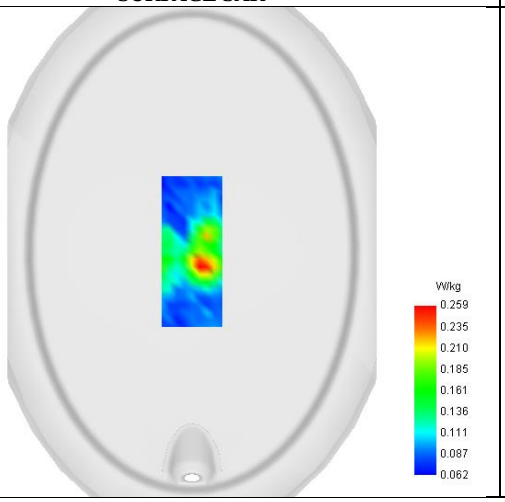
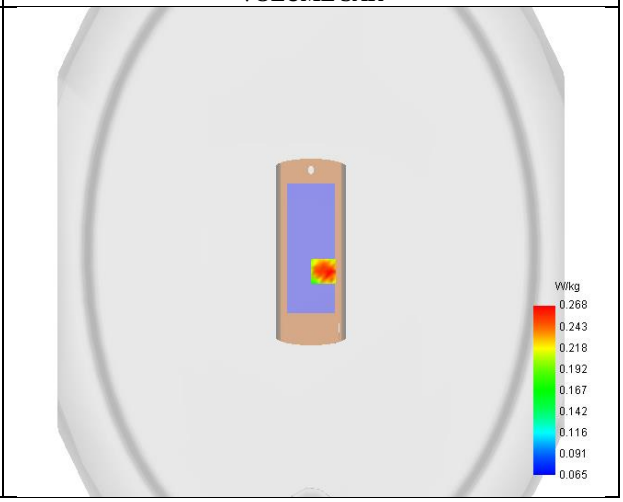
Ambient temperature (℃): 20.2, Liquid temperature (℃): 19.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH40- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH40- Back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

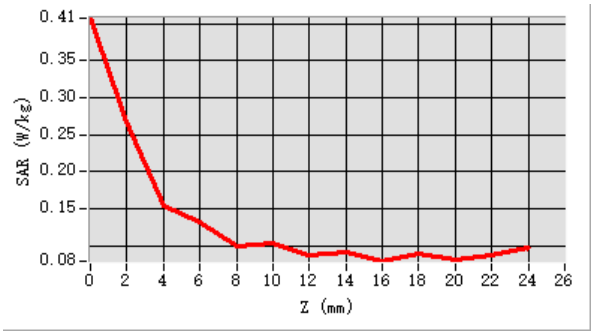
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Back
Band	5200MHz
Channels	CH40
Signal	Crest factor: 1.0

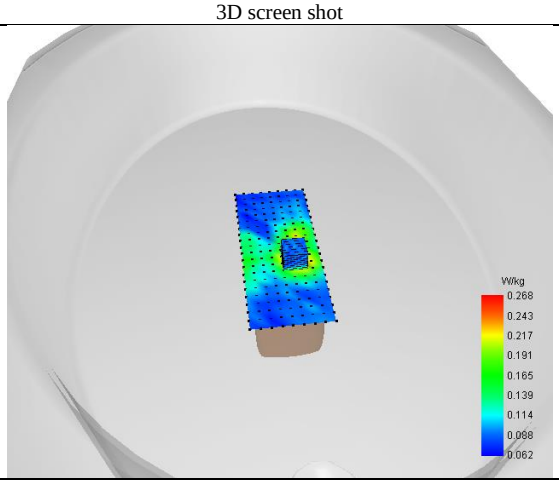
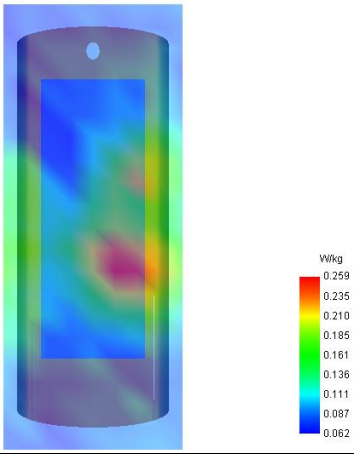
SURFACE SAR	VOLUME SAR
	

Maximum location: X=12.00, Y=-19.00 ; SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.195
Variation (%)	-2.230
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.596336

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.407	0.268	0.155	0.133	0.099	0.104	0.088	0.091	0.079	0.090	0.082	0.088



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 18, 2025**
802.11a CH60-Back
DUT: POS Terminal; Type: P3

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.53; Frequency: 5300MHz; Medium parameters used: f = 5300 MHz; σ= 4.63mho/m; εr =35.73; ρ= 1000 kg/m³ ; Phantom section: Flat Section

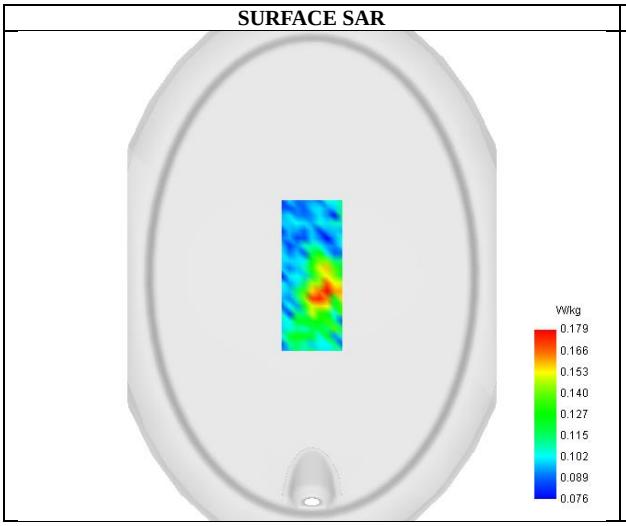
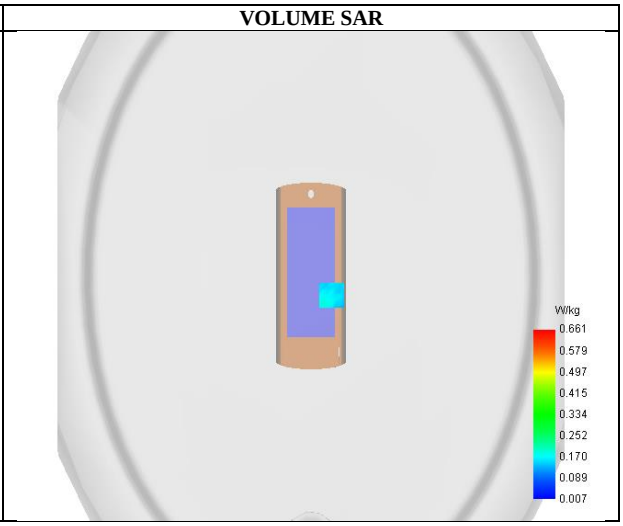
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH60- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH60- Back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

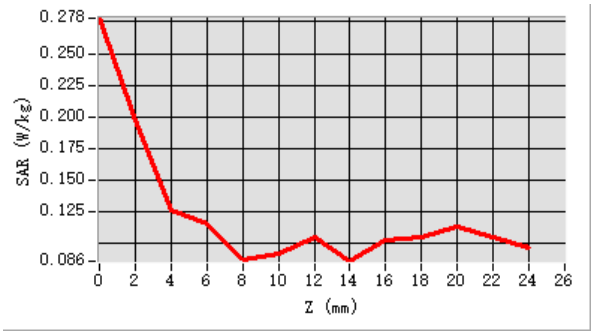
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Back
Band	5300MHz
Channels	CH60
Signal	Crest factor: 1.0

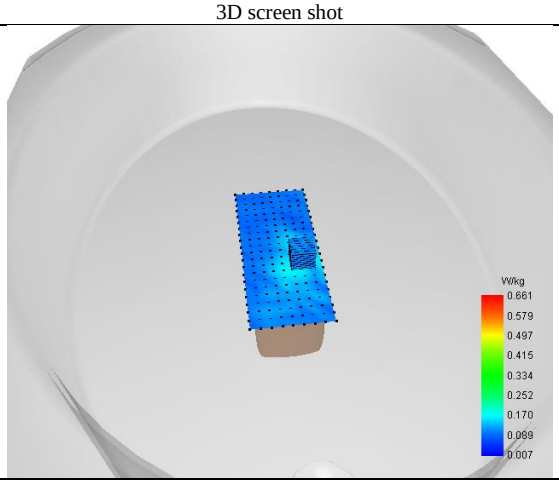
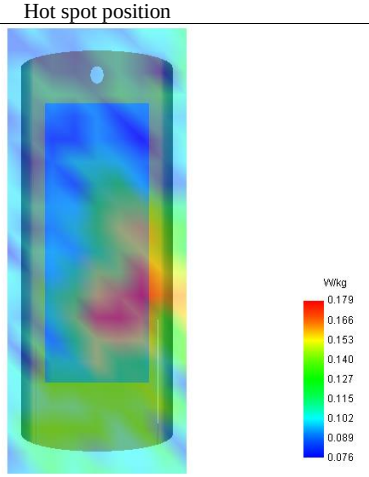
SURFACE SAR	VOLUME SAR
	

Maximum location: X=20.00, Y=-19.00 ; SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.192
Variation (%)	-4.800
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.975110

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.278	0.197	0.127	0.116	0.088	0.092	0.105	0.086	0.103	0.105	0.113	0.104



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 17, 2025**
802.11a CH157-Back
DUT: POS Terminal; Type: P3

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.37; Frequency: 5785MHz; Medium parameters used: f = 5800 MHz; σ= 5.17mho/m; εr =35.69; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

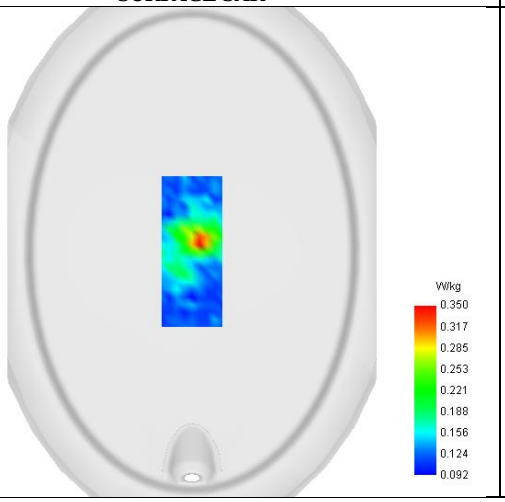
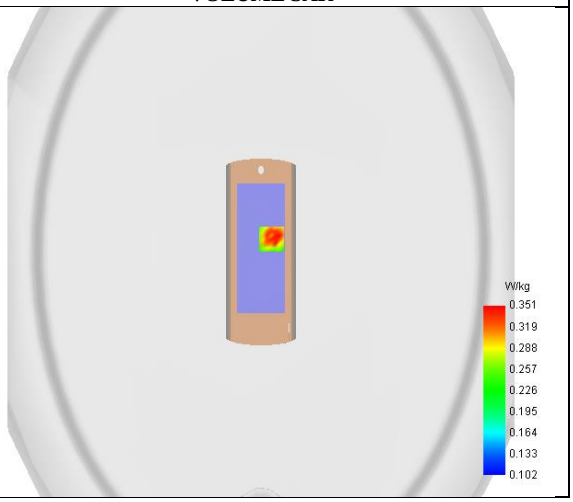
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH157- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH157- Back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

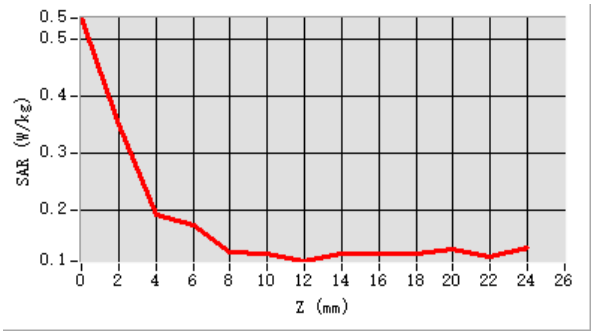
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Back
Band	5800MHz
Channels	Middle
Signal	Crest factor: 1.0

SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=12.00 ; SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.126
SAR 1g (W/Kg)	0.251
Variation (%)	1.720
Horizontal validation criteria: minimum distance (mm)	-1.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	64.940481

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.537	0.351	0.192	0.174	0.127	0.122	0.110	0.124	0.123	0.123	0.131	0.117



3D screen shot	Hot spot position