SAR Test Report

Report No.: AGC01689220609FH01

FCC ID	:	2A2UU-P8
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	AI POS Terminal
BRAND NAME	:	Kobile, Clip
MODEL NAME	:	P8
APPLICANT	:	Shanghai Xiangcheng Communication Technology Co.,Ltd
DATE OF ISSUE	:	Aug. 18,2022
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
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	/	Aug. 18,2022	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	Shanghai Xiangcheng Communication Technology Co.,Ltd
Manufacturer Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China
Factory Name	Sichuan Xiangcheng Intelligent Technology Co, Ltd
Factory Address	Factory No. 2, Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province
Product Designation	AI POS Terminal
Brand Name	Kobile, Clip
Model Name	P8
Different Description	All the same except model name and brand name
EUT Voltage	DC7.6V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
Test Date	Aug. 01,2022 to Aug. 12,2022
Report Template	AGCRT-US-4G/SAR (2021-04-20)

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

Prepared By — Thea Huang (Project Engineer) Aug. 12,2022

Reviewed By — Calvin Liu (Reviewer) Aug. 18,2022

Approved By — Max Zhang (Authorized Officer) Aug. 18,2022

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)		SAR Test Limit (W/kg)
	Body-worn(with 0mm separation)	Hotspot(with 0mm separation)	
GSM 850	1.189	1.189	1.6
PCS 1900	1.377	1.377	
UMTS Band II	1.261	1.261	
UMTS Band IV	1.092	1.092	
UMTS Band V	1.301	1.301	
LTE Band 2	1.260	1.260	
LTE Band 4	1.236	1.236	
LTE Band 5	1.368	1.368	
LTE Band 7	0.991	0.991	
LTE Band 12	1.159	1.159	
LTE Band 17	1.118	1.118	
LTE Band 19	1.280	1.280	
LTE Band 25	1.244	1.244	
LTE Band 26	1.420	1.420	
LTE Band 38	1.403	1.403	
LTE Band 41	1.190	1.190	
WIFI 2.4G	0.762	0.762	
5.2GHz (U-NII-1)	0.649	0.649	
5.3GHz U-NII-2A	0.752	0.752	
5.8GHz U-NII-3	0.754	0.754	
Simultaneous Reported SAR	1.552		
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	AI POS Terminal
Test Model	P8
Sample ID	220704106
Hardware Version	V1.0A
Software Version	P0821_ALL_V1.0_20220613
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	PIFA Antenna
GSM and GPRS& EGPRS	
Support Band	☒GPRS 850 ☒PCS1900 (U.S. Bands) ☒GSM 900 ☒DCS 1800 (Non-U.S. Bands)
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	GSM850:2dBi; PCS1900:2dBi
Max. Average Power	GSM850: 32.89dBm; PCS1900: 28.86dBm
WCDMA	
Support Band	☒UMTS FDD Band II ☒UMTS FDD Band IV ☒UMTS FDD Band V (U.S. Bands) ☒UMTS FDD Band I ☒UMTS FDD Band VIII (Non-U.S. Bands)
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	WCDMA850:2dBi; WCDMA1700:2dBi; WCDMA1900:2dBi
Max. Average Power	Band II: 22.31dBm; Band IV: 22.19dBm; Band V: 22.98dBm
Bluetooth	
Bluetooth Version	☐V2.0 ☐V2.1 ☐V2.1+EDR ☐V3.0 ☐V3.0+HS ☐V4.0 ☒V5.0
Operation Frequency	2402~2480MHz
Type of modulation	☒GFSK ☒Π/4-DQPSK ☒8-DPSK
Peak Power	4.904dBm
Antenna Gain	2.83dBi
2.4GHz WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.45dBm,11g: 14.60dBm,11n(20): 13.85dBm,11n(40): 13.29dBm
Antenna Gain	2.83dBi

EUT Description(Continue)

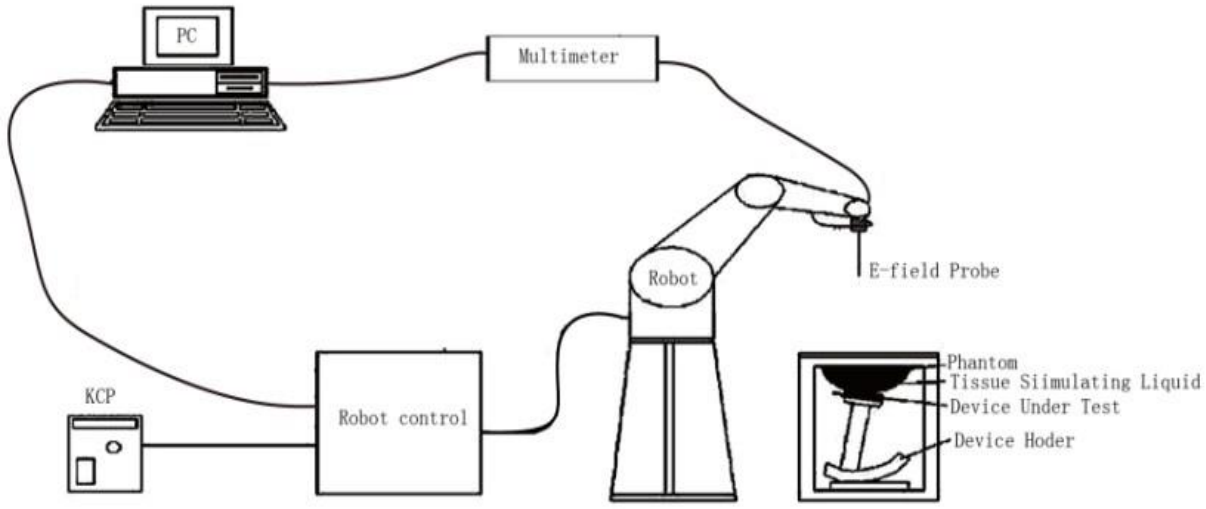
LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 7 ☒FDD Band 12 ☐FDD Band 13 ☒FDD Band 17 ☒FDD Band 19 ☒FDD Band 25 ☒FDD Band 26 ☒TDD Band 38 ☐TDD Band 40 ☒TDD Band 41 (U.S. Bands) ☒FDD Band 1 ☒FDD Band 3 ☐FDD Band 7 ☐FDD Band 8 ☐FDD Band 20 ☒FDD Band 28 ☐TDD Band 38 ☐TDD Band 40 ☐TDD Band 42 ☐TDD Band 43 (Non-U.S. Bands)
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 19: 830-845MHz; Band 25: 1850-1915MHz; Band 26: 814-849MHz; 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 19: 875-890MHz; Band 25: 1930-1995MHz; Band 26: 859-894MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 2.0dBi; Band 4: 2.0dBi; Band 5: 2.0dBi; Band 7: 1.5dBi; Band 12: 1.45dBi; Band 17: 1.45dBi; Band 19: 2.0dBi; Band 25: 2.0dBi; Band 26: 2.0dBi; Band 38: 1.3dBi; Band 41: 1.3dBi;
Max. Average Power	Band 2: 21.74dBm; Band 4: 22.72dBm; Band 5: 23.14dBm; Band 7: 23.59dBm; Band 12: 23.95dBm; Band 17: 23.76dBm; Band 19: 23.20dBm; Band 25: 21.70dBm; Band 26: 23.78dBm; Band 38: 22.67dBm; Band 41: 25.18dBm;
5 GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40 ☒802.11ac20 ☒802.11ac40 ☒802.11ac80
Operation Frequency	U-NII-1: 5150MHz~5250MHz; U-NII-2A: 5250MHz~5350MHz U-NII-3: 5725MHz~5850MHz
Max. conducted Power	U-NII-1: 12.16dBm; U-NII-2A: 13.02dBm; U-NII-3: 10.65dBm
Antenna Gain	U-NII-1:2.67dBi, U-NII-2A: 2.82 dBi, U-NII-3: 2.3dBi
Accessories	
Battery	Brand name: N/A Model No. : P8 Voltage and Capacitance: 7.6 V & 2500mAh
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



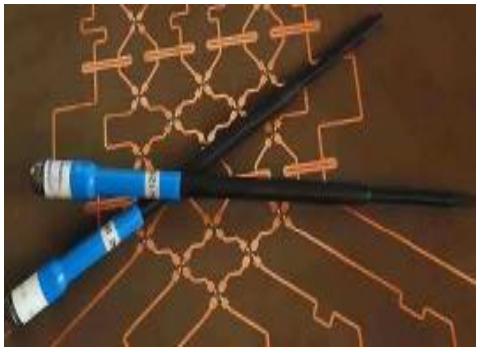
The COMOSAR system for performing compliance tests consists of the following items:

- 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.

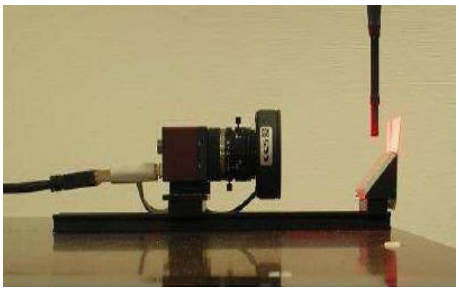
Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	SN 13/22 EPGO368	
Frequency	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

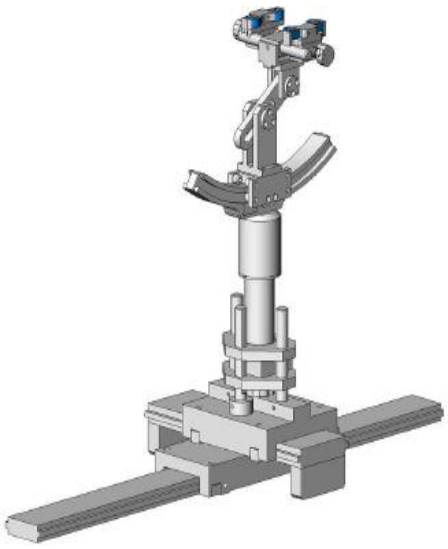
3.3. Robot

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

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.

ELLI39 Phantom

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

4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR can be obtained using either of the following equations:

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

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

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{dT}{dt} \mid t = 0$	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 and IEC62209 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

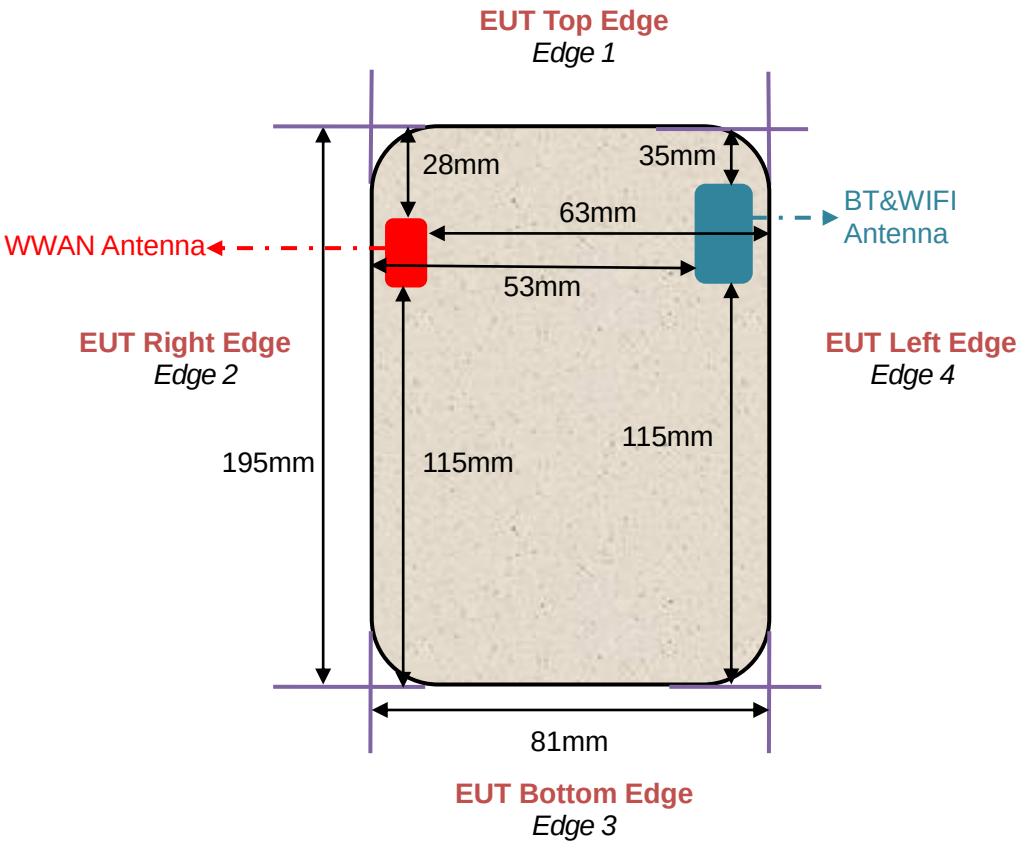
Test Configuration and setting:

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: (the back view)



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)	28mm	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)	10mm	Yes	--
Edge 3 (Bottom)	115mm	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)	63mm	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)	35mm	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)	53mm	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)	115mm	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)	6mm	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 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / **Frequency** (MHz)	**Water**	**Nacl**	**Polysorbate 20**	**DGBE**	**1,2-Propanediol**	**Triton X-100**	**Diethylen glycol monohex ylether**
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
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 IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

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 (±10%)		Tissue Temp [°C]	Test time
		εr 41.9 (37.71-46.09)	δ[s/m] 0.89(0.801-0.979)		
Head	704	45.93	0.82	22.1	Aug. 06,2022
	709	45.76	0.85		
	707.5	45.30	0.88		
	710	44.95	0.90		
	711	43.62	0.91		
	750	42.36	0.92		
	782	41.38	0.93		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)		
Head	824.2	43.59	0.86	21.4	Aug. 01,2022
	826.4	42.61	0.90		
	835	41.23	0.93		
	836.4	40.39	0.95		
	836.6	40.39	0.95		
	846.6	39.86	0.96		
	848.8	39.51	0.97		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)		
Head	821.5	42.16	0.83	21.6	Aug. 02,2022
	829	41.82	0.86		
	831.5	41.26	0.88		
	835	40.69	0.90		
	836.5	39.62	0.91		
	837.5	38.24	0.93		
	841.5	38.01	0.94		
	844	37.72	0.95		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 40.1 (36.09-44.11)	δ[s/m]1.37(1.233-1.507)		
Head	1712.4	43.69	1.26	21.9	Aug. 03,2022
	1720	43.10	1.29		
	1732.4	42.76	1.32		
	1732.5	42.76	1.32		
	1745	41.92	1.34		
	1750	41.36	1.35		
	1752.6	40.26	1.36		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)		
Head	1850.2	42.62	1.31	21.6	Aug. 07,2022
	1852.4	41.36	1.32		
	1880	40.35	1.34		
	1900	39.03	1.36		
	1907.6	38.67	1.38		
	1909.8	37.21	1.41		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)		
Head	1860	42.41	1.30	22.3	Aug. 08,2022
	1880	41.28	1.33		
	1882.5	40.37	1.36		
	1900	39.56	1.38		
	1905	38.42	1.42		

Tissue Stimulant Measurement for 2450MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)		
Head	2412	41.39	1.77	21.5	Aug. 04,2022
	2437	40.36	1.79		
	2450	39.21	1.81		
	2462	38.62	1.83		

Tissue Stimulant Measurement for 2600MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39(35.1-42.9)	δ[s/m]1.96(1.764-2.156)		
Head	2506	42.65	1.82	21.8	Aug. 12,2022
	2510	42.36	1.83		
	2535	42.03	1.85		
	2560	41.69	1.87		
	2580	41.36	1.88		
	2593	40.26	1.89		
	2595	39.68	1.90		
	2600	38.75	1.91		
	2610	37.62	1.93		
	2680	36.62	1.95		

Tissue Stimulant Measurement for 5200MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 36.0(32.4-39.6)	δ[s/m] 4.66(4.194 -5.126)		
Head	5200	35.96	4.62	22.3	Aug. 09,2022
	5220	34.26	4.65		

Tissue Stimulant Measurement for 5300MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.9(32.31-39.49)	δ[s/m] 4.76(4.284-5.236)		
Head	5280	36.29	4.89	21.9	Aug. 12,2022
	5300	35.26	4.86		

Tissue Stimulant Measurement for 5800MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.3 (31.77-38.83)	δ[s/m] 5.27 (4.743-5.797)		
Head	5785	35.98	5.32	21.7	Aug. 11,2022
	5800	34.25	5.36		

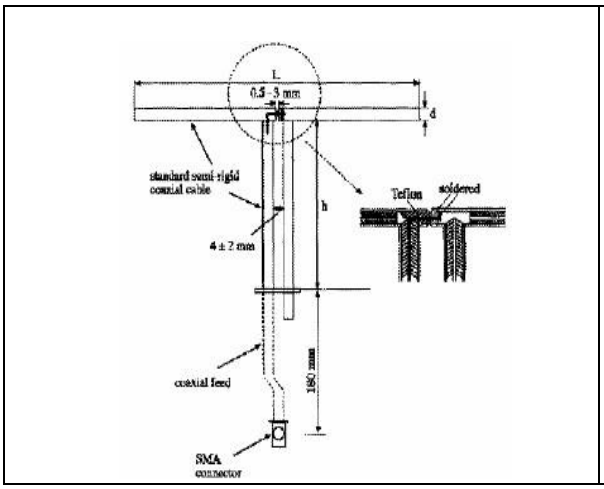
6. SAR SYSTEM CHECK PROCEDURE

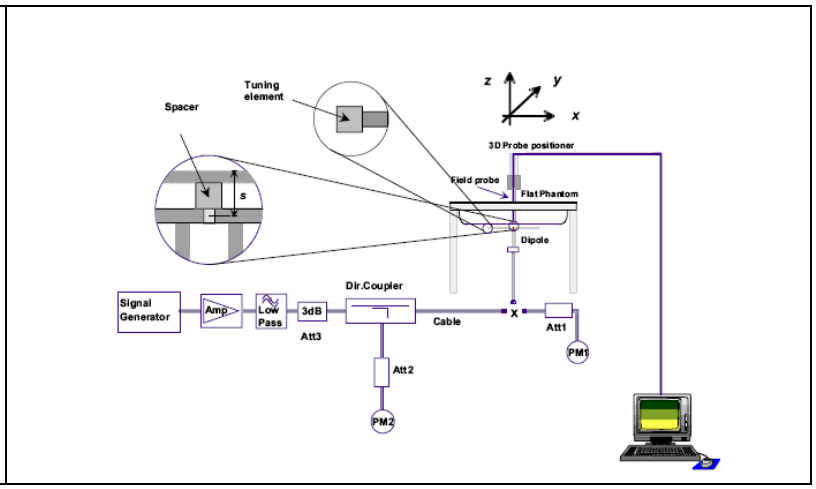
6.1. SAR System Check Procedures

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.

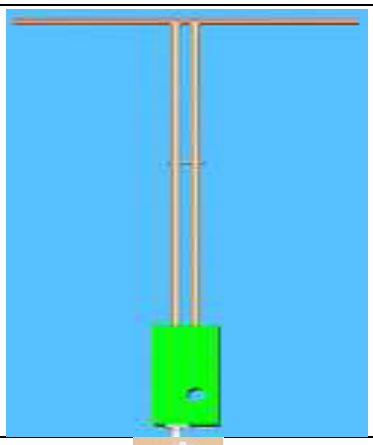
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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 used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.
	The wave guide 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 & 5000MHz 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	8.99	5.55	22.1	Aug. 06,2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.42	5.92	21.4	Aug. 01,2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.41	6.02	21.6	Aug. 02,2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	35.37	19.30	21.9	Aug. 03,2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	43.66	21.57	21.6	Aug. 07,2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.90	21.03	22.3	Aug. 08,2022
2450	54.32	24.25	48.888-59.752	21.825-26.675	55.18	24.83	21.5	Aug. 04,2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	55.33	24.09	21.8	Aug. 12,2022
5200	73.43	21.83	66.087-80.773	19.647-24.013	73.90	23.08	22.3	Aug. 09,2022
5200	78.43	23.90	70.587-86.020	21.510-26.290	77.92	23.87	21.9	Aug. 12,2022
5800	75.69	22.44	68.121-83.259	20.196-24.684	78.32	24.28	21.7	Aug. 11,2022

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

7. EUT TEST POSITION

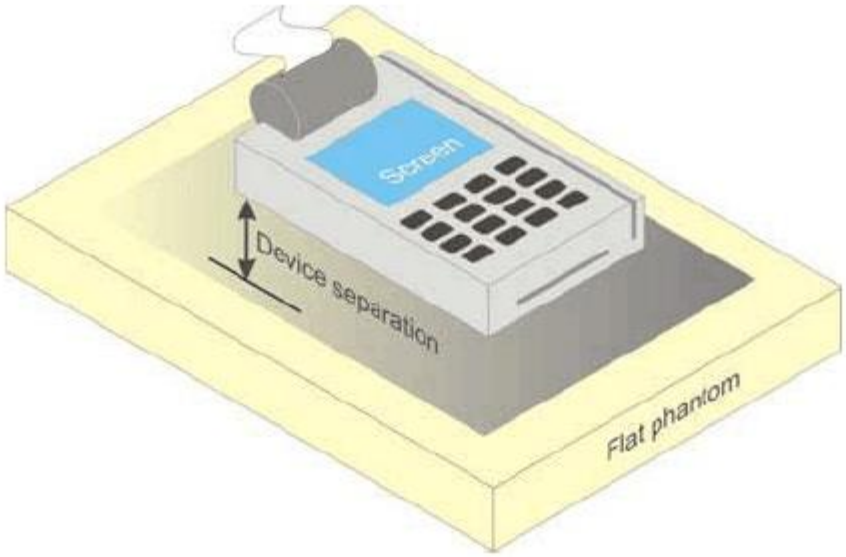
This EUT was tested in **Body back, Body front and 4 edges.**

7.1. Body Worn Position

(1) To position the EUT parallel to the phantom surface.

(2) To adjust the EUT parallel to the flat phantom.

(3) To adjust the distance between the EUT surface and the flat phantom to **0mm.**



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	SN 13/22 EPGO368	N/A	Apr. 13, 2022	Apr. 12, 2023
Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Aug. 18,2021	Aug. 18,2022
Comm Tester	R&S- CMW500	121209	V3.7.40	Aug. 18,2021	Aug. 18,2022
Multimeter	Keithley 2000	4114939	N/A	Aug. 18,2021	Aug. 18,2022
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	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	SATIMO SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 18,2021	Aug. 18,2022
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Mar. 28,2022	Mar. 27,2023
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 28,2021	Oct. 27,2022
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 08,2022	June 07,2023
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 08,2022	June 07,2023
Amplifier	AS0104-55_55	1004793	N/A	June 09,2022	June 08,2023
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10,2022	Mar. 09,2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10,2022	Mar. 09,2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 07,2021	Sep. 06,2022
Power Sensor	NRP-Z23	100323	N/A	Feb. 16,2022	Feb. 15,2023
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07,2021	Dec. 06,2022

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 13/22 EPGO368 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	0.175	R	√3	√0.5	√0.5	0.071	0.071	∞
Hemispherical Isotropy	E.2.2	0.175	R	√3	√0.5	√0.5	0.071	0.071	∞
Boundary effect	E.2.3	1.000	R	√3	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	√3	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.000	R	√3	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	√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	√3	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	√3	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	√3	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	√3	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	√3	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	√3	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	√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	√3	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	√3	1	1	2.887	2.887	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√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	√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	√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				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.058	20.688	

SATIMO Uncertainty- SN 13/22 EPGO368 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	0.175	R	$\sqrt{3}$	1	1	0.101	0.101	∞
Hemispherical Isotropy	E.2.2	0.175	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	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
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				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.924	20.551	

SATIMO Uncertainty- SN 13/22 EPGO368 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	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.175	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	0.990	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	32.84	-9	23.84
	836.6	32.81	-9	23.81
	848.8	32.68	-9	23.68
GPRS 850 （1 Slot）	824.2	**32.89**	-9	23.89
	836.6	32.81	-9	23.81
	848.8	32.63	-9	23.63
GPRS 850 （2 Slot）	824.2	30.42	-6	24.42
	836.6	30.32	-6	24.32
	848.8	30.47	-6	**24.47**
GPRS 850 （3 Slot）	824.2	28.27	-4.26	24.01
	836.6	28.22	-4.26	23.96
	848.8	28.12	-4.26	23.86
GPRS 850 （4 Slot）	824.2	26.28	-3	23.28
	836.6	26.27	-3	23.27
	848.8	26.30	-3	23.30
EGPRS 850 （1 Slot）	824.2	27.31	-9	18.31
	836.6	27.16	-9	18.16
	848.8	27.25	-9	18.25
EGPRS 850 （2 Slot）	824.2	25.26	-6	19.26
	836.6	25.19	-6	19.19
	848.8	25.37	-6	19.37
EGPRS 850 （3 Slot）	824.2	23.50	-4.26	19.24
	836.6	23.42	-4.26	19.16
	848.8	23.19	-4.26	18.93
EGPRS 850 （4 Slot）	824.2	20.11	-3	17.11
	836.6	20.28	-3	17.28
	848.8	20.35	-3	17.35

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GSM 850	824.2	32.69	-9	23.69
	836.6	32.68	-9	23.68
	848.8	32.58	-9	23.58
GPRS 850 （1 Slot）	824.2	32.77	-9	23.77
	836.6	32.72	-9	23.72
	848.8	32.53	-9	23.53
GPRS 850 （2 Slot）	824.2	30.26	-6	24.26
	836.6	30.19	-6	24.19
	848.8	30.32	-6	24.32
GPRS 850 （3 Slot）	824.2	28.15	-4.26	23.89
	836.6	28.08	-4.26	23.82
	848.8	28.04	-4.26	23.78
GPRS 850 （4 Slot）	824.2	26.17	-3	23.17
	836.6	26.09	-3	23.09
	848.8	26.20	-3	23.20

GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	**28.86**	-9	19.86
	1880	28.75	-9	19.75
	1909.8	28.06	-9	19.06
GPRS1900 （1 Slot）	1850.2	28.85	-9	19.85
	1880	28.70	-9	19.70
	1909.8	27.99	-9	18.99
GPRS1900 （2 Slot）	1850.2	26.29	-6	20.29
	1880	26.35	-6	20.35
	1909.8	26.17	-6	20.17
GPRS1900 （3 Slot）	1850.2	24.86	-4.26	**20.60**
	1880	24.38	-4.26	20.12
	1909.8	24.34	-4.26	20.08
GPRS1900 （4 Slot）	1850.2	22.14	-3	19.14
	1880	22.32	-3	19.32
	1909.8	22.15	-3	19.15
EGPRS1900 （1 Slot）	1850.2	23.04	-9	14.04
	1880	23.42	-9	14.42
	1909.8	24.32	-9	15.32
EGPRS1900 （2 Slot）	1850.2	21.96	-6	15.96
	1880	21.85	-6	15.85
	1909.8	22.03	-6	16.03
EGPRS1900 （3 Slot）	1850.2	19.89	-4.26	15.63
	1880	20.01	-4.26	15.75
	1909.8	19.99	-4.26	15.73
EGPRS1900 （4 Slot）	1850.2	17.63	-3	14.63
	1880	17.85	-3	14.85
	1909.8	17.57	-3	14.57

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
PCS1900	1850.2	28.71	-9	19.71
	1880	28.62	-9	19.62
	1909.8	27.96	-9	18.96
GPRS1900 （1 Slot）	1850.2	28.73	-9	19.73
	1880	28.61	-9	19.61
	1909.8	27.89	-9	18.89
GPRS1900 （2 Slot）	1850.2	26.13	-6	20.13
	1880	26.22	-6	20.22
	1909.8	26.02	-6	20.02
GPRS1900 （3 Slot）	1850.2	24.74	-4.26	20.48
	1880	24.24	-4.26	19.98
	1909.8	24.26	-4.26	20.00
GPRS1900 （4 Slot）	1850.2	22.03	-3	19.03
	1880	22.14	-3	19.14
	1909.8	22.03	-3	19.03

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	22.01
	1880	22.23
	1907.6	**22.31**
HSDPA Subtest 1	1852.4	21.11
	1880	21.40
	1907.6	21.52
HSDPA Subtest 2	1852.4	20.39
	1880	20.63
	1907.6	20.73
HSDPA Subtest 3	1852.4	20.34
	1880	20.65
	1907.6	20.78
HSDPA Subtest 4	1852.4	20.35
	1880	20.63
	1907.6	20.78
HSUPA Subtest 1	1852.4	18.89
	1880	19.03
	1907.6	19.17
HSUPA Subtest 2	1852.4	19.01
	1880	19.17
	1907.6	19.18
HSUPA Subtest 3	1852.4	20.03
	1880	20.10
	1907.6	20.09
HSUPA Subtest 4	1852.4	18.35
	1880	18.62
	1907.6	18.80
HSUPA Subtest 5	1852.4	18.27
	1880	18.38
	1907.6	18.45

UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	**22.19**
	1732.4	21.98
	1752.6	21.93
HSDPA Subtest 1	1712.4	21.26
	1732.4	21.14
	1752.6	21.07
HSDPA Subtest 2	1712.4	20.49
	1732.4	20.46
	1752.6	20.28
HSDPA Subtest 3	1712.4	20.44
	1732.4	20.43
	1752.6	20.24
HSDPA Subtest 4	1712.4	20.54
	1732.4	20.44
	1752.6	20.23
HSUPA Subtest 1	1712.4	19.05
	1732.4	18.83
	1752.6	18.73
HSUPA Subtest 2	1712.4	19.16
	1732.4	18.89
	1752.6	18.81
HSUPA Subtest 3	1712.4	20.08
	1732.4	19.82
	1752.6	19.75
HSUPA Subtest 4	1712.4	18.66
	1732.4	18.42
	1752.6	18.34
HSUPA Subtest 5	1712.4	18.05
	1732.4	17.93
	1752.6	18.04

UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	**22.98**
	836.4	22.97
	846.6	22.97
HSDPA Subtest 1	826.4	21.98
	836.4	21.98
	846.6	21.93
HSDPA Subtest 2	826.4	21.24
	836.4	21.19
	846.6	21.10
HSDPA Subtest 3	826.4	21.08
	836.4	21.15
	846.6	20.95
HSDPA Subtest 4	826.4	21.03
	836.4	20.93
	846.6	20.87
HSUPA Subtest 1	826.4	19.80
	836.4	19.76
	846.6	19.72
HSUPA Subtest 2	826.4	19.80
	836.4	19.83
	846.6	19.70
HSUPA Subtest 3	826.4	20.78
	836.4	20.75
	846.6	20.59
HSUPA Subtest 4	826.4	19.35
	836.4	19.30
	846.6	19.17
HSUPA Subtest 5	826.4	18.93
	836.4	18.79
	846.6	18.69

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	21.51	21.66	21.35
			3	0	21.62	21.65	21.44
			5	0	21.52	21.60	21.31
		3	0	0	21.59	21.72	21.43
			2	0	21.52	21.68	21.43
			3	0	21.62	**21.74**	21.43
		6	0	1	20.50	20.67	20.43
	16QAM	1	0	1	20.68	20.78	20.49
			3	1	20.79	21.10	20.57
			5	1	20.62	20.75	20.37
		3	0	1	20.47	20.61	20.28
			2	1	20.47	20.60	20.31
			3	1	20.50	20.59	20.25
		6	0	2	19.50	19.74	19.33
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					18615	**18900**	**19185**
3MHz	QPSK	1	0	0	21.32	21.37	20.85
			7	0	21.23	21.00	20.78
			14	0	21.10	20.99	20.72
		8	0	1	20.28	20.00	19.79
			4	1	20.32	19.96	19.84
			7	1	20.23	19.97	20.18
		15	0	1	20.28	19.99	20.20
	16QAM	1	0	1	20.52	20.36	19.74
			7	1	20.18	20.15	19.67
			14	1	20.09	20.11	19.66
		8	0	2	19.36	19.06	19.04
			4	2	19.46	19.07	19.12
			7	2	19.35	19.01	19.32
		15	0	2	19.34	18.96	19.20

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18625	Channel 18900	Channel 19175
5MHz	QPSK	1	0	0	21.38	21.64	21.29
			13	0	21.49	21.67	21.36
			24	0	21.21	21.46	21.14
		12	0	1	20.31	20.47	20.24
			6	1	20.28	20.51	20.18
			13	1	20.39	20.48	20.26
		25	0	1	20.39	20.55	20.25
	16QAM	1	0	1	20.60	20.60	20.30
			13	1	20.65	20.63	20.32
			24	1	20.45	20.46	20.12
		12	0	2	19.41	19.53	19.25
			6	2	19.40	19.57	19.20
			13	2	19.47	19.58	19.27
		25	0	2	19.37	19.64	19.32
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	0	21.31	21.59	20.77
			25	0	21.21	21.33	20.83
			49	0	21.01	20.92	20.65
		25	0	1	20.17	20.03	19.86
			13	1	20.16	20.06	19.86
			25	1	20.29	20.02	19.97
		50	0	1	20.19	20.02	19.89
	16QAM	1	0	1	20.53	20.54	19.96
			25	1	20.45	20.11	20.15
			49	1	20.20	19.75	19.82
		25	0	2	19.23	19.16	18.91
			13	2	19.23	19.13	18.88
			25	2	19.32	19.14	19.07
		50	0	2	19.24	19.07	18.91

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	21.24	21.50	20.76
			38	0	21.16	21.25	20.88
			74	0	20.98	20.88	20.58
		36	0	1	20.12	20.19	19.98
			18	1	20.13	20.03	20.04
			39	1	20.17	20.05	20.03
		75	0	1	20.14	20.03	20.02
	16QAM	1	0	1	20.58	20.44	19.88
			38	1	20.43	19.94	20.00
			74	1	20.26	19.71	19.74
		36	0	2	20.14	20.15	20.05
			18	2	20.14	20.16	20.04
			39	2	20.10	20.05	20.03
		75	0	2	19.15	19.07	18.98
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	21.39	21.37	21.33
			50	0	21.46	21.69	21.70
			99	0	21.40	21.17	21.30
		50	0	1	20.13	20.68	20.67
			25	1	20.09	20.72	20.68
			50	1	20.08	20.74	20.73
		100	0	1	20.07	20.70	20.74
	16QAM	1	0	1	20.52	20.55	20.39
			50	1	20.55	20.92	20.53
			99	1	20.53	20.29	20.25
		50	0	2	19.22	19.78	19.68
			25	2	19.19	19.74	19.69
			50	2	19.11	19.82	19.77
		100	0	2	19.13	19.74	19.63

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	22.62	21.84	21.84
			3	0	22.72	21.88	21.94
			5	0	22.54	21.86	21.82
		3	0	0	22.69	21.88	21.93
			2	0	22.67	21.90	21.91
			3	0	22.66	21.94	22.02
		6	0	1	21.68	20.85	20.93
	16QAM	1	0	1	21.73	20.89	20.96
			3	1	21.92	21.23	21.15
			5	1	21.75	20.90	20.97
		3	0	1	21.58	20.78	20.83
			2	1	21.56	20.78	20.83
			3	1	21.60	20.75	20.85
		6	0	2	20.66	19.93	19.84
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	22.56	21.77	21.82
			7	0	22.61	21.85	21.87
			14	0	22.59	21.82	21.85
		8	0	1	21.65	20.82	20.87
			4	1	21.66	20.83	20.87
			7	1	21.59	20.89	20.90
		15	0	1	21.58	20.79	20.84
	16QAM	1	0	1	21.84	20.96	20.99
			7	1	21.79	20.96	21.06
			14	1	21.73	20.95	21.05
		8	0	2	20.64	19.96	19.91
			4	2	20.67	19.95	19.91
			7	2	20.57	19.97	19.90
		15	0	2	20.49	19.88	19.81

Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19975	20175	20375
5MHz	QPSK	1	0	0	22.53	21.65	21.67
			13	0	**22.72**	21.93	21.91
			24	0	22.40	21.76	21.78
		12	0	1	21.57	20.72	20.80
			6	1	21.58	20.73	20.84
			13	1	21.55	20.81	20.78
		25	0	1	21.60	20.81	20.84
	16QAM	1	0	1	21.76	20.66	20.84
			13	1	21.91	20.93	21.10
			24	1	21.63	20.77	20.97
		12	0	2	20.64	19.77	19.87
			6	2	20.61	19.78	19.91
			13	2	20.59	19.88	19.90
		25	0	2	20.57	19.87	19.86
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	22.61	21.66	21.71
			25	0	22.59	21.87	21.82
			49	0	22.14	21.85	21.80
		25	0	1	21.65	20.72	20.82
			13	1	21.62	20.70	20.86
			25	1	21.37	20.85	20.76
		50	0	1	21.53	20.81	20.76
	16QAM	1	0	1	21.84	20.83	20.90
			25	1	21.85	21.03	20.88
			49	1	21.37	21.00	20.98
		25	0	2	20.68	19.73	19.91
			13	2	20.66	19.74	19.91
			25	2	20.45	19.92	19.82
		50	0	2	20.50	19.78	19.90

Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20025	Channel 20175	Channel 20325
15MHz	QPSK	1	0	0	22.55	21.54	21.81
			38	0	22.28	21.82	21.78
			74	0	22.12	21.71	21.82
		36	0	1	21.39	20.82	20.93
			18	1	21.41	20.82	20.90
			39	1	21.42	20.85	20.90
		75	0	1	21.47	20.87	20.94
	16QAM	1	0	1	21.89	20.72	21.00
			38	1	21.61	20.97	21.07
			74	1	21.40	20.88	21.03
		36	0	2	21.39	20.85	20.92
			18	2	21.40	20.87	20.91
			39	2	21.46	20.88	20.93
		75	0	2	20.46	19.79	19.95
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	0	22.52	21.02	21.38
			50	0	22.22	21.51	21.45
			99	0	22.00	21.28	21.21
		50	0	1	21.19	20.04	20.50
			25	1	21.01	20.03	20.50
			50	1	20.79	20.30	20.09
		100	0	1	20.87	20.28	20.35
	16QAM	1	0	1	21.67	20.09	20.51
			50	1	21.55	20.54	20.73
			99	1	21.25	20.39	20.44
		50	0	2	20.02	19.03	19.54
			25	2	20.03	19.25	19.62
			50	2	20.07	19.51	19.12
		100	0	2	19.91	19.18	19.48

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	23.06	22.64	22.55
			3	0	**23.14**	22.76	22.67
			5	0	23.00	22.55	22.51
		3	0	0	22.97	22.59	22.63
			2	0	22.80	22.60	22.61
			3	0	22.55	22.64	22.68
		6	0	1	21.65	21.69	21.70
	16QAM	1	0	1	22.13	21.71	21.73
			3	1	22.31	21.95	21.96
			5	1	22.13	21.73	21.73
		3	0	1	21.81	21.51	21.57
			2	1	21.54	21.51	21.54
			3	1	21.45	21.56	21.54
		6	0	2	20.65	20.70	20.58
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20415	**20525**	**20635**
3MHz	QPSK	1	0	0	22.80	22.44	22.58
			7	0	22.48	22.53	22.56
			14	0	22.47	22.59	22.53
		8	0	1	21.57	21.58	21.62
			4	1	21.57	21.57	21.62
			7	1	21.56	21.64	21.58
		15	0	1	21.49	21.60	21.58
	16QAM	1	0	1	21.70	21.69	21.82
			7	1	21.66	21.74	21.72
			14	1	21.66	21.77	21.70
		8	0	2	20.51	20.61	20.62
			4	2	20.54	20.62	20.64
			7	2	20.52	20.62	20.59
		15	0	2	20.40	20.59	20.53

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	22.48	22.38	22.56
			13	0	22.58	22.63	22.64
			24	0	22.54	22.58	22.48
		12	0	1	21.51	21.52	21.65
			6	1	21.51	21.52	21.66
			13	1	21.58	21.62	21.62
		25	0	1	21.58	21.61	21.65
	16QAM	1	0	1	21.70	21.44	21.85
			13	1	21.84	21.68	21.91
			24	1	21.78	21.66	21.74
		12	0	2	20.51	20.49	20.71
			6	2	20.50	20.47	20.66
			13	2	20.60	20.60	20.53
		25	0	2	20.48	20.58	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	22.21	22.30	22.63
			25	0	21.96	22.65	22.67
			49	0	22.39	22.68	22.52
		25	0	1	20.89	21.56	21.77
			13	1	20.89	21.60	21.77
			25	1	21.24	21.77	21.67
		50	0	1	21.07	21.64	21.71
	16QAM	1	0	1	21.07	21.30	21.89
			25	1	21.17	21.63	21.91
			49	1	21.59	21.70	21.82
		25	0	2	19.88	20.61	20.73
			13	2	19.91	20.62	20.75
			25	2	20.24	20.77	20.61
		50	0	2	20.06	20.63	20.68

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20775	21100	21425
5MHz	QPSK	1	0	0	23.26	22.60	21.29
			12	0	23.04	22.67	21.40
			24	0	22.87	22.61	21.41
		12	0	1	22.01	21.66	20.37
			6	1	22.00	21.65	20.42
			13	1	21.97	21.70	20.47
		25	0	1	22.00	21.71	20.47
	16QAM	1	0	1	22.00	21.76	20.29
			12	1	22.00	21.84	20.46
			24	1	21.85	21.79	20.39
		12	0	2	20.98	20.67	19.37
			6	2	20.98	20.67	19.34
			13	2	20.97	20.70	19.45
		25	0	2	20.99	20.69	19.44
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	23.53	22.67	21.26
			24	0	23.40	22.72	21.41
			49	0	22.97	22.62	21.38
		25	0	1	21.98	21.71	20.40
			12	1	21.99	21.70	20.39
			25	1	21.99	21.76	20.49
		50	0	1	21.94	21.72	20.46
	16QAM	1	0	1	22.63	21.59	20.48
			24	1	22.17	21.61	20.59
			49	1	22.01	21.56	20.56
		25	0	2	21.01	20.75	19.38
			12	2	21.01	20.78	19.41
			25	2	21.03	20.78	19.47
		50	0	2	21.01	20.73	19.40

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	22.97	22.72	21.32
			37	0	22.96	22.68	21.38
			74	0	22.96	22.66	21.36
		37	0	1	22.16	21.89	20.58
			16	1	22.14	21.86	20.57
			35	1	22.14	21.89	20.58
		75	0	1	22.15	21.88	20.62
	16QAM	1	0	1	22.20	21.62	20.53
			37	1	22.18	21.59	20.51
			74	1	22.21	21.58	20.55
		37	0	2	22.15	21.89	20.58
			16	2	22.14	21.90	20.59
			35	2	22.15	21.87	20.58
		75	0	2	21.05	20.81	19.48
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20850	**21100**	**21350**
20MHz	QPSK	1	0	0	23.45	22.57	21.47
			49	0	**23.59**	22.66	21.52
			99	0	23.48	22.48	21.36
		50	0	1	22.27	21.73	20.47
			25	1	21.90	21.70	20.45
			49	1	22.18	21.73	20.35
		100	0	1	22.08	21.73	20.39
	16QAM	1	0	1	22.49	21.70	20.47
			49	1	22.73	21.76	20.56
			99	1	22.60	21.61	20.38
		50	0	2	21.25	20.71	19.42
			25	2	20.87	20.75	19.45
			49	2	21.16	20.76	19.36
		100	0	2	21.00	20.74	19.36

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	23.75	22.76	23.21
			3	0	23.87	22.71	23.41
			5	0	23.77	22.52	23.27
		3	0	0	23.83	22.69	23.37
			2	0	23.51	22.69	23.33
			3	0	23.43	22.68	23.41
		6	0	1	22.34	21.64	22.35
	16QAM	1	0	1	22.90	21.82	22.36
			3	1	22.98	21.96	22.51
			5	1	22.94	21.63	22.37
		3	0	1	22.47	21.60	22.23
			2	1	22.29	21.62	22.26
			3	1	22.28	21.54	22.22
		6	0	2	21.38	20.56	21.39
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	23.82	22.89	21.93
			7	0	23.70	22.62	21.88
			14	0	23.43	22.45	21.94
		8	0	1	22.31	21.72	21.05
			4	1	22.30	21.76	21.08
			7	1	22.31	21.55	21.12
		15	0	1	22.31	21.62	20.91
	16QAM	1	0	1	23.04	21.77	21.18
			7	1	22.93	21.49	21.10
			14	1	22.45	21.31	21.12
		8	0	2	21.33	20.78	20.04
			4	2	21.35	20.77	20.12
			7	2	21.30	20.55	20.03
		15	0	2	21.24	20.54	19.97

Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23035	Channel 23095	Channel 23155
5MHz	QPSK	1	0	0	23.78	23.08	22.02
			13	0	**23.95**	22.71	22.07
			24	0	23.70	22.26	21.91
		12	0	1	22.84	21.83	20.98
			6	1	22.83	21.88	21.00
			13	1	22.63	21.46	20.94
		25	0	1	22.74	21.70	20.99
	16QAM	1	0	1	22.95	21.94	21.03
			13	1	23.17	21.71	21.08
			24	1	22.85	21.28	20.91
		12	0	2	21.87	20.88	19.95
			6	2	21.88	20.91	19.94
			13	2	21.60	20.44	19.90
		25	0	2	21.51	20.70	20.01
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	0	23.79	23.33	22.76
			25	0	23.78	22.82	22.20
			49	0	22.60	22.10	21.94
		25	0	1	22.31	22.08	21.51
			13	1	22.31	22.11	21.50
			25	1	21.91	21.37	21.14
		50	0	1	22.18	21.76	21.30
	16QAM	1	0	1	23.02	22.16	21.92
			25	1	22.94	21.67	21.44
			49	1	21.77	21.01	21.15
		25	0	2	21.35	21.12	20.54
			13	2	21.37	21.14	20.52
			25	2	20.85	20.39	20.11
		50	0	2	21.22	20.74	20.32

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	23.75	22.81	22.35
			13	0	23.23	22.59	22.31
			24	0	22.67	22.24	22.15
		12	0	1	22.23	21.67	21.27
			6	1	22.22	21.67	21.29
			13	1	21.89	21.44	21.17
		25	0	1	22.09	21.60	21.25
	16QAM	1	0	1	22.84	21.97	21.35
			13	1	22.11	21.81	21.34
			24	1	21.72	21.48	21.22
		12	0	2	21.21	20.68	20.29
			6	2	21.19	20.68	20.29
			13	2	20.89	20.40	20.20
		25	0	2	21.08	20.54	20.26
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	**23.76**	23.19	23.01
			25	0	23.19	22.67	22.53
			49	0	22.33	22.22	22.20
		25	0	1	22.12	21.96	21.72
			13	1	22.11	21.93	21.77
			25	1	21.50	21.44	21.36
		50	0	1	21.83	21.67	21.59
	16QAM	1	0	1	22.96	22.09	22.19
			25	1	22.46	21.57	21.70
			49	1	21.49	21.13	21.35
		25	0	2	21.13	21.02	20.77
			13	2	21.14	21.02	20.77
			25	2	20.56	20.47	20.38
		50	0	2	20.83	20.69	20.60

Conducted Power of LTE Band 19(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 24025	Channel 24075	Channel 24125
5MHz	QPSK	1	0	0	22.55	23.02	23.13
			13	0	22.89	23.16	**23.20**
			24	0	22.96	23.17	22.73
		12	0	1	21.76	22.06	21.97
			6	1	21.75	22.06	22.01
			13	1	21.85	22.17	21.70
		25	0	1	21.80	22.13	21.97
	16QAM	1	0	1	21.58	22.25	22.17
			13	1	21.86	22.38	22.16
			24	1	21.94	22.33	21.90
		12	0	2	20.71	21.15	20.91
			6	2	20.70	21.14	21.02
			13	2	20.94	21.23	20.64
		25	0	2	20.86	21.14	21.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 24050	Channel 24075	Channel 24100
10MHz	QPSK	1	0	0	22.59	22.89	22.89
			25	0	23.13	22.72	22.73
			49	0	23.17	22.71	22.60
		25	0	1	21.94	21.63	21.67
			13	1	21.85	21.68	21.67
			25	1	22.12	21.83	21.70
		50	0	1	21.92	21.64	21.68
	16QAM	1	0	1	21.76	21.43	21.76
			25	1	22.29	21.68	21.88
			49	1	22.33	21.71	21.84
		25	0	2	20.92	20.65	20.66
			13	2	20.99	20.68	20.66
			25	2	21.00	20.79	20.70
		50	0	2	20.86	20.68	20.66

Conducted Power of LTE Band 19 (dBm)					
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel
					24075
15MHz	QPSK	1	0	0	22.04
			37	0	22.70
			74	0	22.54
		37	0	1	21.66
			16	1	21.60
			35	1	21.62
		75	0	1	21.62
	16QAM	1	0	1	21.37
			37	1	21.93
			74	1	21.88
		37	0	2	21.64
			16	2	21.64
			35	2	21.65
		75	0	2	20.59

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	21.63	21.28	21.03
			2	0	21.66	21.40	21.29
			5	0	21.14	21.28	21.05
		3	0	0	21.26	21.35	21.08
			1	0	21.25	21.39	21.06
			3	0	21.22	21.40	21.13
		6	0	1	20.22	20.36	20.17
	16QAM	1	0	1	20.80	20.49	19.89
			2	1	20.61	20.62	20.05
			5	1	20.35	20.42	19.89
		3	0	1	20.14	20.27	19.84
			1	1	20.12	20.28	19.84
			3	1	20.12	20.21	19.84
		6	0	2	19.31	19.29	19.11
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26055	26365	26675
3MHz	QPSK	1	0	0	21.29	21.37	21.00
			8	0	21.21	21.34	21.05
			14	0	21.16	21.27	21.04
		8	0	1	20.15	20.32	20.12
			4	1	20.16	20.31	20.17
			7	1	20.12	20.26	20.06
		15	0	1	20.13	20.24	20.05
	16QAM	1	0	1	20.41	20.24	20.09
			8	1	20.32	20.23	20.05
			14	1	20.32	20.16	20.07
		8	0	2	19.22	19.38	19.14
			4	2	19.20	19.40	19.12
			7	2	19.21	19.31	19.06
		15	0	2	19.14	19.24	19.01

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	21.59	21.44	20.98
			12	0	21.53	21.43	21.12
			24	0	21.10	21.28	20.99
		12	0	1	20.21	20.29	20.20
			6	1	20.11	20.32	20.19
			13	1	20.27	20.32	19.92
		25	0	1	20.17	20.33	20.03
	16QAM	1	0	1	20.93	20.39	19.93
			12	1	20.47	20.46	20.00
			24	1	20.30	20.27	19.96
		12	0	2	19.23	19.34	19.19
			6	2	19.24	19.34	19.16
			13	2	19.37	19.38	18.90
		25	0	2	19.34	19.44	19.07
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26090	26365	26640
10MHz	QPSK	1	0	0	21.64	21.48	21.15
			24	0	21.29	21.32	21.08
			49	0	21.14	21.18	20.95
		25	0	1	20.39	20.33	20.06
			12	1	20.17	20.32	20.05
			25	1	20.22	20.35	19.70
		50	0	1	20.53	20.36	19.84
	16QAM	1	0	1	20.78	20.44	20.33
			24	1	20.51	20.32	20.22
			49	1	20.09	20.03	20.07
		25	0	2	19.40	19.41	19.04
			12	2	19.29	19.42	19.02
			25	2	19.51	19.50	18.70
		50	0	2	19.61	19.41	18.92

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	21.69	**21.70**	21.11
			38	0	21.54	21.39	21.21
			74	0	21.40	21.09	21.01
		38	0	1	20.52	20.39	20.21
			18	1	20.52	20.36	20.13
			37	1	20.55	20.38	20.19
		75	0	1	20.54	20.43	20.15
	16QAM	1	0	1	20.97	20.40	20.34
			38	1	20.85	20.25	20.38
			74	1	20.36	19.98	20.08
		38	0	2	20.52	20.34	20.15
			18	2	20.56	20.36	20.17
			37	2	20.52	20.44	20.15
		75	0	2	19.51	19.46	19.10
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26140	Channel 26365	Channel 26590
20MHz	QPSK	1	0	0	21.56	21.22	20.95
			49	0	21.62	21.36	21.38
			99	0	21.24	20.81	20.96
		50	0	1	19.76	20.31	20.28
			25	1	20.20	20.28	20.26
			50	1	20.14	20.26	20.01
		100	0	1	20.21	20.28	20.04
	16QAM	1	0	1	20.77	20.37	20.02
			49	1	20.70	20.49	20.45
			99	1	20.16	19.89	19.89
		50	0	2	19.24	19.42	19.30
			25	2	18.88	19.38	19.32
			50	2	19.26	19.38	19.03
		100	0	2	19.00	19.35	19.13

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	23.24	23.19	23.24
			2	0	23.34	23.30	23.33
			5	0	23.18	23.23	23.19
		3	0	0	23.29	23.26	23.28
			1	0	23.31	23.28	23.29
			3	0	23.23	23.30	23.31
		6	0	1	22.31	22.23	22.25
	16QAM	1	0	1	22.38	22.32	22.34
			2	1	22.49	22.53	22.46
			5	1	22.30	22.32	22.33
		3	0	1	22.19	22.15	22.17
			1	1	22.21	22.18	22.19
			3	1	22.14	22.17	22.16
		6	0	2	21.35	21.35	21.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26805	26915	27025
3MHz	QPSK	1	0	0	23.28	23.14	23.25
			8	0	23.23	23.18	23.28
			14	0	23.23	23.29	23.25
		8	0	1	22.31	22.25	22.32
			4	1	22.33	22.21	22.33
			7	1	22.26	22.32	22.25
		15	0	1	22.29	22.25	22.30
	16QAM	1	0	1	22.46	22.35	22.42
			8	1	22.36	22.40	22.38
			14	1	22.30	22.44	22.10
		8	0	2	21.32	21.34	21.40
			4	2	21.29	21.36	21.41
			7	2	21.30	21.42	21.24
		15	0	2	21.17	21.37	21.27

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	23.21	23.06	23.18
			12	0	23.27	23.35	22.85
			24	0	23.22	23.07	22.74
		12	0	1	22.19	21.76	21.91
			6	1	22.23	22.06	21.85
			13	1	22.21	21.93	21.87
		25	0	1	22.28	22.26	21.81
	16QAM	1	0	1	22.42	22.06	22.47
			12	1	22.38	22.31	22.18
			24	1	22.43	22.23	21.94
		12	0	2	21.26	20.84	20.93
			6	2	21.24	21.23	20.86
			13	2	21.30	21.23	21.01
		25	0	2	21.24	21.21	21.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26840	26915	26990
10MHz	QPSK	1	0	0	22.55	22.92	23.30
			24	0	22.73	**23.42**	23.28
			49	0	23.03	23.34	22.99
		25	0	1	21.55	22.23	22.00
			12	1	21.57	22.20	22.19
			25	1	21.87	22.40	22.04
		50	0	1	21.68	22.27	22.08
	16QAM	1	0	1	21.71	21.80	22.47
			24	1	21.94	22.28	22.26
			49	1	22.18	22.16	22.07
		25	0	2	20.63	21.31	20.96
			12	2	20.62	21.27	20.92
			25	2	20.95	21.45	20.91
		50	0	2	20.77	21.32	21.08

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	22.50	22.61	23.06
			38	0	22.94	23.19	22.94
			74	0	23.26	22.93	22.73
		38	0	1	21.95	21.99	21.89
			18	1	21.95	21.81	21.92
			37	1	22.00	22.20	21.92
		75	0	1	21.95	22.00	21.92
	16QAM	1	0	1	21.76	21.51	22.00
			38	1	22.11	22.11	22.20
			74	1	22.51	21.90	21.89
		38	0	2	21.97	22.12	21.92
			18	2	21.96	21.82	21.99
			37	2	21.95	21.84	22.20
		75	0	2	20.97	21.12	20.94

Conducted Power of LTE Band 26B(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 26697**	**Channel 26740**	**Channel 26783**
1.4MHz	QPSK	1	0	0	23.77	23.14	22.66
			2	0	23.65	22.98	22.75
			5	0	23.18	22.91	22.55
		3	0	0	23.20	22.95	22.71
			1	0	23.18	22.96	22.69
			3	0	23.11	23.01	22.74
		6	0	1	22.25	22.03	21.77
	16QAM	1	0	1	22.64	22.15	21.64
			2	1	22.31	22.30	21.76
			5	1	22.22	22.13	21.58
		3	0	1	22.00	21.93	21.61
			1	1	21.98	21.92	21.60
			3	1	21.95	21.92	21.51
		6	0	2	21.20	20.92	20.75
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 26705**	**Channel 26740**	**Channel 26775**
3MHz	QPSK	1	0	0	**23.78**	23.56	22.91
			8	0	23.69	21.98	22.68
			14	0	23.59	23.04	22.65
		8	0	1	22.81	22.12	21.80
			4	1	22.74	22.10	21.84
			7	1	22.71	22.23	21.76
		15	0	1	22.66	22.15	21.77
	16QAM	1	0	1	22.78	22.40	22.14
			8	1	22.74	22.01	21.92
			14	1	22.68	22.01	21.82
		8	0	2	21.71	21.13	20.90
			4	2	21.68	21.13	20.90
			7	2	21.65	21.06	20.76
		15	0	2	21.54	20.98	20.79

Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26715	26740	26765
5MHz	QPSK	1	0	0	23.71	23.57	23.33
			12	0	23.69	23.58	22.88
			24	0	23.45	23.05	22.62
		12	0	1	22.72	22.22	21.93
			6	1	22.67	22.51	22.07
			13	1	22.62	22.22	21.81
		25	0	1	22.65	22.27	21.90
	16QAM	1	0	1	22.71	22.60	22.29
			12	1	22.87	22.61	21.98
			24	1	22.72	21.92	21.70
		12	0	2	21.66	21.10	20.88
			6	2	21.67	21.30	20.90
			13	2	21.60	21.11	20.79
		25	0	2	21.65	21.21	20.96
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26740		
10MHz	QPSK	1	0	0	23.73		
			24	0	23.51		
			49	0	23.14		
		25	0	1	22.34		
			12	1	22.25		
			25	1	21.96		
		50	0	1	22.16		
	16QAM	1	0	1	22.75		
			24	1	22.77		
			49	1	21.99		
		25	0	2	21.34		
			12	2	21.25		
			25	2	20.98		
		50	0	2	21.18		

Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26765		
15MHz	QPSK	1	0	0	23.73		
			38	0	23.34		
			74	0	23.01		
		38	0	1	22.26		
			18	1	22.21		
			37	1	22.22		
		75	0	1	22.18		
	16QAM	1	0	1	22.82		
			38	1	22.63		
			74	1	22.24		
		38	0	2	22.14		
			18	2	22.29		
			37	2	22.07		
		75	0	2	20.97		

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	22.28	21.84	22.04
			12	0	22.44	21.97	22.16
			24	0	22.41	21.87	22.12
		12	0	1	21.37	20.95	21.16
			6	1	21.41	21.03	21.11
			13	1	21.43	20.97	21.09
		25	0	1	21.42	21.00	21.16
	16QAM	1	0	1	21.74	21.20	21.21
			12	1	21.86	21.33	21.36
			24	1	21.80	21.20	21.33
		12	0	2	20.33	20.01	20.04
			6	2	20.38	20.01	20.10
			13	2	20.39	20.05	20.07
		25	0	2	20.46	20.00	20.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37800	38000	38200
10MHz	QPSK	1	0	0	22.43	22.02	22.07
			24	0	**22.67**	22.21	22.25
			49	0	22.47	22.01	22.15
		25	0	1	21.49	21.04	21.09
			12	1	21.53	21.01	21.10
			25	1	21.58	21.04	21.11
		50	0	1	21.57	21.04	21.09
	16QAM	1	0	1	21.34	21.10	21.43
			24	1	21.65	21.29	21.61
			49	1	21.36	21.06	21.50
		25	0	2	20.51	20.06	20.19
			12	2	20.51	20.03	20.21
			25	2	20.56	20.05	20.24
		50	0	2	20.57	20.00	20.14

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	22.35	21.98	21.99
			38	0	22.50	21.98	22.05
			74	0	22.17	21.99	22.04
		37	0	1	21.47	21.03	21.08
			18	1	21.45	21.02	21.09
			37	1	21.42	21.01	21.08
		75	0	1	21.46	21.04	21.08
	16QAM	1	0	1	21.43	21.06	21.37
			38	1	21.56	21.05	21.42
			74	1	21.20	21.06	21.36
		37	0	2	21.46	21.03	21.10
			18	2	21.44	21.03	21.05
			37	2	21.47	21.02	21.10
		75	0	2	20.44	20.01	20.07
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37850	**38000**	**38150**
20MHz	QPSK	1	0	0	22.29	22.00	21.86
			49	0	22.55	22.19	22.19
			99	0	21.93	21.96	21.97
		50	0	1	21.40	20.99	21.04
			25	1	21.36	20.96	21.05
			49	1	21.23	21.03	21.02
		100	0	1	21.28	21.01	21.01
	16QAM	1	0	1	20.99	20.97	21.15
			49	1	21.30	21.18	21.38
			99	1	20.66	20.96	21.20
		50	0	2	20.46	19.98	20.07
			25	2	20.45	19.96	20.06
			49	2	20.26	19.99	20.07
		100	0	2	20.34	20.02	20.08

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	21.05	22.21	22.38
			12	0	22.68	22.57	23.74
			24	0	20.98	22.39	22.94
		12	0	1	21.97	23.81	24.05
			6	1	21.99	22.81	**25.18**
			13	1	23.44	22.44	23.86
		25	0	1	22.81	21.05	24.10
	16QAM	1	0	1	20.59	23.41	21.12
			12	1	22.22	21.39	22.30
			24	1	23.42	21.04	22.52
		12	0	2	21.20	22.01	23.35
			6	2	21.22	21.54	22.08
			13	2	22.69	21.29	21.09
		25	0	2	22.04	20.31	23.44
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39700	40620	41540
10MHz	QPSK	1	0	0	20.33	21.59	20.63
			24	0	19.57	21.71	18.90
			49	0	20.41	21.52	20.56
		25	0	1	18.51	20.57	19.64
			12	1	18.49	20.59	19.62
			25	1	20.94	20.55	18.02
		50	0	1	19.83	20.56	20.88
	16QAM	1	0	1	20.48	20.09	20.38
			24	1	18.97	20.05	20.25
			49	1	20.33	20.11	20.03
		25	0	2	20.97	19.24	19.52
			12	2	20.69	19.27	19.52
			25	2	20.26	19.28	19.88
		50	0	2	19.74	19.29	19.37

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	20.67	20.57	20.55
			37	0	20.68	20.51	20.52
			74	0	21.16	20.47	20.35
		37	0	1	20.66	20.12	20.52
			19	1	20.74	20.11	20.44
			38	1	21.07	20.14	20.31
		75	0	1	20.39	19.98	20.25
	16QAM	1	0	1	20.60	20.14	20.58
			37	1	20.73	20.09	20.47
			74	1	21.01	20.05	20.28
		37	0	2	20.66	20.14	20.53
			19	2	20.74	20.12	20.43
			38	2	21.01	20.10	20.30
		75	0	2	19.69	19.25	19.54
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39750	40620	41490
20MHz	QPSK	1	0	0	21.03	20.36	20.67
			49	0	21.07	20.14	20.89
			99	0	21.70	20.27	20.74
		50	0	1	20.31	19.86	20.88
			25	1	20.44	19.87	20.46
			50	1	20.76	19.96	18.77
		100	0	1	20.52	19.96	19.98
	16QAM	1	0	1	21.22	20.56	20.20
			49	1	21.01	20.77	19.67
			99	1	21.78	20.37	20.44
		50	0	2	19.32	19.51	20.48
			25	2	19.30	19.50	19.47
			50	2	23.16	19.49	21.10
		100	0	2	21.60	19.46	19.34

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	**15.45**
		06	2437	14.93
		11	2462	14.91
802.11g	6	01	2412	14.60
		06	2437	13.95
		11	2462	13.84
802.11n(20)	6.5	01	2412	13.85
		06	2437	13.41
		11	2462	13.25
802.11n(40)	13.5	03	2422	13.29
		06	2437	12.87
		09	2452	12.77

Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	4.659
	39	2441	**4.904**
	78	2480	4.226
π /4-DQPSK	0	2402	3.845
	39	2441	3.520
	78	2480	3.788
8-DPSK	0	2402	3.816
	39	2441	3.305
	78	2480	3.755

Bluetooth_V5.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK 1M	0	2402	-5.357
	19	2440	-5.481
	39	2480	**-5.029**
GFSK 2M	0	2402	-5.410
	19	2440	-5.601
	39	2480	-5.139

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	11.13	10.98	10.91	10.82	10.67	10.58	10.46	10.37
	40	5200	11.56	11.43	11.30	11.24	11.13	11.04	10.87	10.83
	44	5220	11.42	11.32	11.14	11.07	11.00	10.85	10.74	10.67
	48	5240	**12.16**	12.04	11.89	11.82	11.72	11.63	11.60	11.39
	52	5260	11.72	11.63	11.49	11.36	11.28	11.17	11.05	11.00
	56	5280	11.62	11.52	11.40	11.25	11.16	11.10	10.94	10.88
	60	5300	**13.02**	12.86	12.78	12.69	12.50	12.43	12.37	12.26
	64	5320	12.61	12.48	12.40	12.29	12.14	12.04	11.92	11.86
	149	5745	8.31	8.16	8.06	7.96	7.85	7.73	7.63	7.59
	157	5785	9.11	8.99	8.84	8.72	8.71	8.59	8.46	8.38
	165	5825	9.96	9.82	9.73	9.60	9.47	9.39	9.32	9.21
Mode	**channel**	**Frequency**	**Power(dBm)**							
			Data Rate(bps)							
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	10.36	10.21	10.14	10.05	9.90	9.81	9.69	9.60
	40	5200	10.20	10.07	9.94	9.88	9.77	9.68	9.57	9.47
	44	5220	10.16	10.06	9.88	9.81	9.72	9.59	9.45	9.41
	48	5240	11.00	10.88	10.77	10.66	10.55	10.47	10.36	10.23
	52	5260	10.45	10.36	10.25	10.09	10.08	9.90	9.75	9.73
	56	5280	11.32	11.22	11.12	10.95	10.85	10.80	10.62	10.58
	60	5300	11.36	11.20	11.15	11.03	10.86	10.77	10.75	10.60
	64	5320	11.59	11.46	11.32	11.27	11.15	11.02	10.92	10.84
	149	5745	8.22	8.07	7.96	7.87	7.72	7.64	7.52	7.50
	157	5785	8.95	8.83	8.63	8.56	8.52	8.43	8.30	8.22
	165	5825	**10.65**	10.51	10.43	10.29	10.16	10.08	10.01	9.90
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	10.22	10.12	10.00	9.85	9.76	9.70	9.57	9.43
	46	5230	10.92	10.76	10.68	10.60	10.45	10.33	10.25	10.16
	54	5270	11.06	10.93	10.85	10.76	10.59	10.49	10.36	10.31
	62	5310	11.61	11.46	11.36	11.28	11.15	11.03	10.99	10.89
	151	5755	8.91	8.79	8.64	8.55	8.51	8.39	8.26	8.18
	159	5795	9.28	9.14	9.05	8.93	8.79	8.71	8.64	8.53

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	9.69	9.58	9.47	9.38	9.23	9.17	9.02	8.93
	40	5200	10.01	9.85	9.75	9.67	9.58	9.44	9.32	9.28
	44	5220	9.95	9.86	9.67	9.65	9.53	9.36	9.27	9.20
	48	5240	10.91	10.78	10.64	10.52	10.47	10.38	10.28	10.14
	52	5260	10.43	10.35	10.20	10.05	9.99	9.86	9.76	9.71
	56	5280	11.36	11.26	11.14	10.92	10.90	10.86	10.68	10.62
	60	5300	11.50	11.35	11.26	11.13	11.03	10.93	10.85	10.74
	64	5320	11.66	11.59	11.45	11.35	11.19	11.06	10.97	10.91
	149	5745	8.56	8.41	8.31	8.26	8.10	7.91	7.88	7.84
	157	5785	9.20	9.08	8.93	8.88	8.80	8.68	8.55	8.47
	165	5825	9.60	9.46	9.37	9.25	9.11	9.03	8.96	8.85
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	10.03	9.88	9.81	9.72	9.57	9.43	9.36	9.27
	46	5230	10.81	10.68	10.55	10.49	10.38	10.29	10.12	10.08
	54	5270	9.87	9.77	9.59	9.52	9.45	9.30	9.19	9.12
	62	5310	9.45	9.33	9.18	9.11	9.01	8.92	8.86	8.68
	151	5755	8.89	8.80	8.66	8.53	8.45	8.34	8.22	8.17
	159	5795	9.35	9.25	9.13	8.98	8.89	8.83	8.69	8.61
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	9.80	9.68	9.56	9.46	9.36	9.27	9.17	9.03
	58	5290	10.75	10.66	10.52	10.39	10.31	10.20	10.08	10.03
	155	5775	8.75	8.65	8.53	8.38	8.29	8.23	8.07	8.01

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 0mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/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. 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.
4. 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.
5. 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.
6. 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)]

7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. 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.
9. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. 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.
11. 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.
12. 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 (%): 44.3					
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Body back	voice	190	836.6	-0.12	**0.236**	32.90	32.81	**0.241**	1.6
Body front	voice	190	836.6	0.32	0.192	32.90	32.81	0.196	1.6
Body back	GPRS-2 slot	190	836.6	-0.01	0.320	30.50	30.32	0.334	1.6
Body front	GPRS-2 slot	190	836.6	0.05	0.269	30.50	30.32	0.280	1.6
Edge 2(Right)	GPRS-2 slot	128	824.2	-0.12	0.990	30.50	30.42	1.008	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.06	**1.141**	30.50	30.32	**1.189**	1.6
Edge 2(Right)	GPRS-2 slot	251	848.8	-0.32	1.019	30.50	30.47	1.026	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.3					
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Body back	voice	661	1880.0	-0.21	0.268	28.90	28.75	0.277	1.6
Body front	voice	661	1880.0	0.11	**0.302**	28.90	28.75	**0.313**	1.6
Body back	GPRS-3 slot	661	1880	-0.03	0.124	24.50	24.38	0.127	1.6
Body front	GPRS-3 slot	661	1880	0.05	0.157	24.50	24.38	0.161	1.6
Edge 2(Right)	GPRS-3 slot	512	1850.2	-0.04	1.308	24.90	24.86	1.320	1.6
Edge 2(Right)	GPRS-3 slot	661	1880	0.21	**1.339**	24.50	24.38	**1.377**	1.6
Edge 2(Right)	GPRS-3 slot	810	1909.8	-0.05	1.278	24.50	24.34	1.326	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.3					
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	9400	1880	-0.24	0.171	22.40	22.23	0.178	1.6
Body front	RMC 12.2kbps	9400	1880	-0.13	0.265	22.40	22.23	0.276	1.6
Edge 2(Right)	RMC 12.2kbps	9262	1852.4	-0.24	**1.153**	22.40	22.01	**1.261**	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.52	1.147	22.40	22.23	1.193	1.6
Edge 2(Right)	RMC 12.2kbps	9538	1907.6	-0.12	1.151	22.40	22.31	1.175	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 48.4					
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	8662	1732.4	-0.17	0.473	22.20	21.98	0.498	1.6
Body front	RMC 12.2kbps	8662	1732.4	0.24	0.450	22.20	21.98	0.473	1.6
Edge 2(Right)	RMC 12.2kbps	8562	1712.4	-0.05	1.007	22.20	22.19	1.009	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	0.24	1.012	22.20	21.98	1.065	1.6
Edge 2(Right)	RMC 12.2kbps	8763	1752.6	-0.16	**1.026**	22.20	21.93	**1.092**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 44.3					
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	4183	836.4	-0.24	0.266	23.00	22.97	0.268	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.15	0.170	23.00	22.97	0.171	1.6
Edge 2(Right)	RMC 12.2kbps	4132	826.4	-0.26	1.280	23.00	22.98	1.286	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.37	1.261	23.00	22.97	1.270	1.6
Edge 2(Right)	RMC 12.2kbps	4233	846.6	0.42	**1.292**	23.00	22.97	**1.301**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.7							
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	18900	1880	-0.18	0.129	21.80	21.37	0.142	1.6
		Body front	1	0	18900	1880	-0.32	0.199	21.80	21.37	0.220	1.6
		Edge 2(Right)	1	0	18700	1860	-0.26	0.954	21.80	21.39	1.048	1.6
		Edge 2(Right)	1	0	18900	1880	-0.24	**1.141**	21.80	21.37	**1.260**	1.6
		Edge 2(Right)	1	0	19100	1900	0.10	0.914	21.80	21.33	1.018	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 48.4							
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	**QPSK**	Body back	1	0	20175	1732.5	-0.17	0.172	21.50	21.02	0.192	1.6
		Body front	1	0	20175	1732.5	-0.20	0.360	21.50	21.02	0.402	1.6
		Edge 2(Right)	1	0	20050	1720	-0.11	0.900	21.50	22.52	0.712	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.32	**1.107**	21.50	21.02	**1.236**	1.6
		Edge 2(Right)	1	0	20300	1745	-0.05	0.983	21.50	21.38	1.011	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 49.7							
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	-0.22	0.360	23.00	22.67	0.388	1.6
		Body front	1	0	20525	836.5	-0.04	0.266	23.00	22.67	0.287	1.6
		Edge 2(Right)	1	0	20450	829	-0.25	**1.297**	23.20	23.53	1.202	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.12	1.268	23.00	22.67	**1.368**	1.6
		Edge 2(Right)	1	0	20600	844	-0.04	1.286	21.50	21.26	1.359	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8								
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	**QPSK**	Body back	1	0	21100	2535	-0.35	0.117	23.60	22.57	0.148	1.6
		Body front	1	0	21100	2535	-0.26	0.022	23.60	22.57	0.028	1.6
		Edge 2(Right)	1	0	20850	2510	-0.17	**0.886**	23.60	23.45	0.917	1.6
		Edge 2(Right)	1	0	21100	2535	-0.42	0.876	23.00	22.57	0.967	1.6
		Edge 2(Right)	1	0	21350	2560	0.52	0.877	22.00	21.47	**0.991**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 49.3								
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23095	707.5	-0.32	0.098	24.00	23.19	0.118	1.6
		Body front	1	0	23095	707.5	0.05	0.110	24.00	23.19	0.133	1.6
		Edge 2(Right)	1	0	23095	704	-0.16	0.924	24.00	23.76	0.976	1.6
		Edge 2(Right)	1	0	23060	707.5	-0.32	**0.926**	24.00	23.19	1.116	1.6
		Edge 2(Right)	1	0	23095	711	0.05	0.923	24.00	23.01	**1.159**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 49.3							
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23790	710	-0.14	0.109	23.80	23.19	0.125	1.6
		Body front	1	0	23790	710	-0.05	0.103	23.80	23.19	0.119	1.6
		Edge 2(Right)	1	0	23780	709	-0.04	**0.934**	23.80	23.76	0.943	1.6
		Edge 2(Right)	1	0	23790	710	-0.27	0.874	23.80	23.19	1.006	1.6
		Edge 2(Right)	1	0	23800	711	-0.10	0.932	23.80	23.01	**1.118**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 49.7								
Product: AI POS Terminal												
Test Mode: LTE Band 19												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
15	QPSK	Body back	1	0	20525	837.5	-0.17	0.331	22.50	22.04	0.368	1.6
		Body front	1	0	20525	837.5	0.05	0.262	22.50	22.04	0.291	1.6
		Edge 2(Right)	1	0	20525	837.5	-0.24	**1.151**	22.50	22.04	**1.280**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.7							
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	26365	1882.5	-0.32	0.134	21.80	21.22	0.153	1.6
		Body front	1	0	26365	1882.5	-0.05	0.059	21.80	21.22	0.067	1.6
		Edge 2(Right)	1	0	26140	1860	-0.17	1.023	21.80	21.56	1.081	1.6
		Edge 2(Right)	1	0	26365	1882.5	-0.08	**1.075**	21.80	21.22	1.229	1.6
		Edge 2(Right)	1	0	26590	1905	0.30	1.023	21.80	20.95	**1.244**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 49.7								
Product: LTE smartphone												
Test Mode: LTE Band 26												
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
15	**QPSK**	Body back	1	0	26915	831.5	0.18	0.282	23.80	22.61	0.371	1.6
		Body front	1	0	26915	836.5	-0.24	0.229	23.80	22.61	0.301	1.6
		Edge 2(Right)	1	0	26865	821.5	-0.05	1.053	23.80	22.50	**1.420**	1.6
		Edge 2(Right)	1	0	26915	836.5	-0.32	1.047	23.80	22.61	1.377	1.6
		Edge 2(Right)	1	0	26965	841.5	-0.05	**1.065**	23.80	23.06	1.263	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT											
Depth of Liquid (cm):>15			Relative Humidity (%):49.8								
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	38000	2595	-0.22	0.047	22.70	22.00	0.055	1.6
		Body front	1	0	38000	2595	-0.02	0.018	22.70	22.00	0.021	1.6
		Edge 2(Right)	1	0	37850	2580	-0.05	1.129	22.70	22.29	1.241	1.6
		Edge 2(Right)	1	0	38000	2595	-0.24	1.141	22.70	22.00	1.341	1.6
		Edge 2(Right)	1	0	38150	2610	0.13	**1.156**	22.70	21.86	**1.403**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%):49.8							
Product: AI 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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	40620	2593	-0.11	0.148	22.00	21.59	0.163	1.6
		Body front	1	0	40620	2593	0.05	0.020	22.00	21.59	0.022	1.6
		Edge 2(Right)	1	0	39750	2506	-0.05	0.985	20.50	20.33	1.024	1.6
		Edge 2(Right)	1	0	40620	2593	-0.24	1.037	22.00	21.59	1.140	1.6
		Edge 2(Right)	1	0	41490	2680	0.17	**1.093**	21.00	20.63	**1.190**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table

SAR MEASUREMENT									
Depth of Liquid (cm):>15			Relative Humidity (%): 46.6						
Product: AI POS Terminal									
Test Mode: 2.4GHz 802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	DTS	6	2437	-0.17	0.104	15.00	14.93	0.106	1.6
Body front	DTS	6	2437	-0.04	0.048	15.00	14.93	0.049	1.6
Edge 4(Left)	DTS	6	2437	0.24	**0.750**	15.00	14.93	**0.762**	1.6

Note:
- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above “DTS” means data transmitters.
- The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 49.6				
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	40	5200	-0.13	0.230	12.16	11.56	0.264	1.6
Body front	40	5200	-0.02	0.190	12.16	11.56	0.218	1.6
Edge 4(Left)	40	5200	-0.19	**0.565**	12.16	11.56	**0.649**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 52.9				
Product: AI 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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	56	5280	-0.13	0.264	13.02	11.62	0.364	1.6
Body front	56	5280	0.24	0.227	13.02	11.62	0.313	1.6
Edge 4(Left)	56	5280	0.06	**0.545**	13.02	11.62	**0.752**	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 0mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 51.8				
Product: AI POS Terminal								
Test Mode: 5.8GHz WIFI-802.11n(20)								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	157	5785	-0.10	0.204	10.65	8.95	0.302	1.6
Body front	157	5785	0.05	0.124	10.65	8.95	0.183	1.6
Edge 4(Left)	157	5785	0.11	**0.510**	10.65	8.95	**0.754**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 0mm of all above table

Repeated SAR										
Product: AI POS Terminal										
Test Mode: GSM850& PCS1900& WCDMA Band II& WCDMA Band IV& WCDMA Band V& LTE Band 2& LTE Band 4& LTE Band 5& LTE Band 7& LTE Band 12& LTE Band 17& LTE Band 19& LTE Band 25& LTE Band 26& LTE Band 38& LTE Band 41										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.12	1.000	--	--	--	--	1.6
Edge 2(Right)	GPRS-3 slot	661	1880	-0.05	1.330	--	--	--	--	1.6
Edge 2(Right)	RMC 12.2kbps	9262	1852.4	-0.13	1.152	--	--	--	--	1.6
Edge 2(Right)	RMC 12.2kbps	8763	1752.6	0.08	1.020	--	--	--	--	1.6
Edge 2(Right)	RMC 12.2kbps	4233	846.6	-0.10	1.290	--	--	--	--	1.6

Position	**Mode**		**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
	UL RB Allocation	**UL RB START**									
Edge 2(Right)	1	0	18900	1880	-0.17	1.134	--	--	--	--	1.6
Edge 2(Right)	1	0	20175	1732.5	0.06	0.915	--	--	--	--	1.6
Edge 2(Right)	1	0	20450	826.4	-0.32	1.291	--	--	--	--	1.6
Edge 2(Right)	1	0	20850	2510	-0.05	0.861	--	--	--	--	1.6
Edge 2(Right)	1	0	23060	704	0.24	0.924	--	--	--	--	1.6
Edge 2(Right)	1	0	23780	709	0.21	0.929	--	--	--	--	1.6
Edge 2(Right)	1	0	20525	837.5	0.08	1.141	--	--	--	--	1.6
Edge 2(Right)	1	0	26365	1882.5	0.24	1.069	--	--	--	--	1.6
Edge 2(Right)	1	0	26965	841.5	-0.20	1.027	--	--	--	--	1.6
Edge 2(Right)	1	0	38150	2610	-0.11	1.155	--	--	--	--	1.6
Edge 2(Right)	1	0	41490	2680	0.13	1.090	--	--	--	--	1.6

The second repeated SAR judge reference								
Product: AI POS Terminal								
Band	**Position**	**Mode**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
GSM850	Edge 2(Right)	GPRS-2 slot	190	836.6	1.141	1.000	1.141	＜1.2
PCS1900	Edge 2(Right)	GPRS-3 slot	661	1880	1.339	1.330	1.007	＜1.2
WCDMA Band II	Edge 2(Right)	RMC 12.2kbps	9262	1852.4	1.153	1.152	1.001	＜1.2
WCDMA Band IV	Edge 2(Right)	RMC 12.2kbps	8763	1752.6	1.026	1.020	1.006	＜1.2
WCDMA Band V	Edge 2(Right)	RMC 12.2kbps	4233	846.6	1.292	1.290	1.002	＜1.2
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 2	Edge 2(Right)	1	0	18900	1880	1.141	1.134	1.006	＜1.2
LTE Band 4	Edge 2(Right)	1	0	20175	1732.5	1.107	0.925	1.197	＜1.2
LTE Band 5	Edge 2(Right)	1	0	20450	826.4	1.297	1.291	1.005	＜1.2
LTE Band 7	Edge 2(Right)	1	0	20850	2510	0.886	0.861	1.029	＜1.2
LTE Band 12	Edge 2(Right)	1	0	23060	704	0.926	0.924	1.002	＜1.2
LTE Band 17	Edge 2(Right)	1	0	23780	709	0.934	0.929	1.005	＜1.2
LTE Band 19	Edge 2(Right)	1	0	20525	837.5	1.151	1.141	1.009	＜1.2
LTE Band 25	Edge 2(Right)	1	0	26365	1882.5	1.075	1.069	1.006	＜1.2
LTE Band 26	Edge 2(Right)	1	0	26965	841.5	1.065	1.027	1.037	＜1.2
LTE Band 38	Edge 2(Right)	1	0	38150	2610	1.156	1.155	1.001	＜1.2
LTE Band 41	Edge 2(Right)	1	0	41490	2680	1.093	1.090	1.003	＜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 0mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(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	5	3.162	0	0.132

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 DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.241	0.106		0.347	No
		0.241		0.132	0.373	No
	Front	0.196	0.049		0.245	No
		0.196		0.132	0.328	No
Body-worn (Data)	Rear	0.334		0.132	0.466	No
		0.334	0.106		0.440	No
	Front	0.280		0.132	0.412	No
		0.280	0.049		0.329	No
	Edge 2(Right)	1.189		0.132	1.321	No
		1.189	--		1.189	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn (voice)	Rear	0.241	0.264			0.505	No
		0.241		0.364		0.605	No
		0.241			0.302	0.543	No
	Front	0.196	0.218			0.414	No
		0.196		0.313		0.509	No
		0.196			0.183	0.379	No
Body-worn (Data)	Rear	0.334	0.264			0.598	No
		0.334		0.364		0.698	No
		0.334			0.302	0.636	No
	Front	0.280	0.218			0.498	No
		0.280		0.313		0.593	No
		0.280			0.183	0.463	No
	Edge 2(Right)	1.189	--			1.189	No
		1.189		--		1.189	No
		1.189			--	1.189	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 DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.277	0.106		0.383	No
		0.277		0.132	0.409	No
	Front	0.313	0.049		0.362	No
		0.313		0.132	0.445	No
Body-worn (Data)	Rear	0.127		0.132	0.259	No
		0.127	0.106		0.233	No
	Front	0.161		0.132	0.293	No
		0.161	0.049		0.210	No
	Edge 2(Right)	1.377		0.132	1.509	No
		1.377	--		1.377	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn (voice)	Rear	0.277	0.264			0.541	No
		0.277		0.364		0.641	No
		0.277			0.302	0.579	No
	Front	0.313	0.218			0.531	No
		0.313		0.313		0.626	No
		0.313			0.183	0.496	No
Body-worn (Data)	Rear	0.127	0.264			0.391	No
		0.127		0.364		0.491	No
		0.127			0.302	0.429	No
	Front	0.161	0.218			0.379	No
		0.161		0.313		0.474	No
		0.161			0.183	0.344	No
	Edge 2(Right)	1.377	--			1.377	No
		1.377		--		1.377	No
		1.377			--	1.377	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 DTS Band	Bluetooth		
Body-worn	Rear	0.178	0.106		0.284	No
	Front	0.276	0.049		0.325	No
	Edge 2(Right)	1.261	--		1.261	No
	Rear	0.178		0.132	0.310	No
	Front	0.276		0.132	0.408	No
	Edge 2(Right)	1.261		0.132	1.393	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.178	0.264			0.442	No
	Front	0.276	0.218			0.494	No
	Edge 2(Right)	1.261	--			1.261	No
	Rear	0.178		0.364		0.542	No
	Front	0.276		0.313		0.589	No
	Edge 2(Right)	1.261		--		1.261	No
	Rear	0.178			0.302	0.480	No
	Front	0.276			0.183	0.459	No
	Edge 2(Right)	1.261			--	1.261	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 DTS Band	Bluetooth		
Body-worn	Rear	0.498	0.106		0.604	No
	Front	0.473	0.049		0.522	No
	Edge 2(Right)	1.092	--		1.092	No
	Rear	0.498		0.132	0.630	No
	Front	0.473		0.132	0.605	No
	Edge 2(Right)	1.092		0.132	1.224	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.498	0.264			0.762	No
	Front	0.473	0.218			0.691	No
	Edge 2(Right)	1.092	--			1.092	No
	Rear	0.498		0.364		0.862	No
	Front	0.473		0.313		0.786	No
	Edge 2(Right)	1.092		--		1.092	No
	Rear	0.498			0.302	0.800	No
	Front	0.473			0.183	0.656	No
	Edge 2(Right)	1.092			--	1.092	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 DTS Band	Bluetooth		
Body-worn	Rear	0.268	0.106		0.374	No
	Front	0.171	0.049		0.220	No
	Edge 2(Right)	1.301	--		1.301	No
	Rear	0.268		0.132	0.400	No
	Front	0.171		0.132	0.303	No
	Edge 2(Right)	1.301		0.132	1.433	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.268	0.264			0.532	No
	Front	0.171	0.218			0.389	No
	Edge 2(Right)	1.301	--			1.301	No
	Rear	0.268		0.364		0.632	No
	Front	0.171		0.313		0.484	No
	Edge 2(Right)	1.301		--		1.301	No
	Rear	0.268			0.302	0.570	No
	Front	0.171			0.183	0.354	No
	Edge 2(Right)	1.301			--	1.301	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 DTS Band	Bluetooth		
Body-worn	Rear	0.142	0.106		0.248	No
	Front	0.220	0.049		0.269	No
	Edge 2(Right)	1.260	--		1.260	No
	Rear	0.142		0.132	0.274	No
	Front	0.220		0.132	0.352	No
	Edge 2(Right)	1.260		0.132	1.392	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.142	0.264			0.406	No
	Front	0.220	0.218			0.438	No
	Edge 2(Right)	1.260	--			1.260	No
	Rear	0.142		0.364		0.506	No
	Front	0.220		0.313		0.533	No
	Edge 2(Right)	1.260		--		1.260	No
	Rear	0.142			0.302	0.444	No
	Front	0.220			0.183	0.403	No
	Edge 2(Right)	1.260			--	1.260	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 DTS Band	Bluetooth		
Body-worn	Rear	0.192	0.106		0.298	No
	Front	0.402	0.049		0.451	No
	Edge 2(Right)	1.236	--		1.236	No
	Rear	0.192		0.132	0.324	No
	Front	0.402		0.132	0.534	No
	Edge 2(Right)	1.236		0.132	1.368	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.192	0.264			0.456	No
	Front	0.402	0.218			0.620	No
	Edge 2(Right)	1.236	--			1.236	No
	Rear	0.192		0.364		0.556	No
	Front	0.402		0.313		0.715	No
	Edge 2(Right)	1.236		--		1.236	No
	Rear	0.192			0.302	0.494	No
	Front	0.402			0.183	0.585	No
	Edge 2(Right)	1.236			--	1.236	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 DTS Band	Bluetooth		
Body-worn	Rear	0.388	0.106		0.494	No
	Front	0.287	0.049		0.336	No
	Edge 2(Right)	1.368	--		1.368	No
	Rear	0.388		0.132	0.520	No
	Front	0.287		0.132	0.419	No
	Edge 2(Right)	1.368		0.132	1.500	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.388	0.264			0.652	No
	Front	0.287	0.218			0.505	No
	Edge 2(Right)	1.368	--			1.368	No
	Rear	0.388		0.364		0.752	No
	Front	0.287		0.313		0.600	No
	Edge 2(Right)	1.368		--		1.368	No
	Rear	0.388			0.302	0.690	No
	Front	0.287			0.183	0.470	No
	Edge 2(Right)	1.368			--	1.368	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 DTS Band	Bluetooth		
Body-worn	Rear	0.148	0.106		0.254	No
	Front	0.028	0.049		0.077	No
	Edge 2(Right)	0.991	--		0.991	No
	Rear	0.148		0.132	0.280	No
	Front	0.028		0.132	0.160	No
	Edge 2(Right)	0.991		0.132	1.123	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.148	0.264			0.412	No
	Front	0.028	0.218			0.246	No
	Edge 2(Right)	0.991	--			0.991	No
	Rear	0.148		0.364		0.512	No
	Front	0.028		0.313		0.341	No
	Edge 2(Right)	0.991		--		0.991	No
	Rear	0.148			0.302	0.450	No
	Front	0.028			0.183	0.211	No
	Edge 2(Right)	0.991			--	0.991	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 DTS Band	Bluetooth		
Body-worn	Rear	0.118	0.106		0.224	No
	Front	0.133	0.049		0.182	No
	Edge 2(Right)	1.159	--		1.159	No
	Rear	0.118		0.132	0.250	No
	Front	0.133		0.132	0.265	No
	Edge 2(Right)	1.159		0.132	1.291	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.118	0.264			0.382	No
	Front	0.133	0.218			0.351	No
	Edge 2(Right)	1.159	--			1.159	No
	Rear	0.118		0.364		0.482	No
	Front	0.133		0.313		0.446	No
	Edge 2(Right)	1.159		--		1.159	No
	Rear	0.118			0.302	0.420	No
	Front	0.133			0.183	0.316	No
	Edge 2(Right)	1.159			--	1.159	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 DTS Band	Bluetooth		
Body-worn	Rear	0.125	0.106		0.231	No
	Front	0.119	0.049		0.168	No
	Edge 2(Right)	1.118	--		1.118	No
	Rear	0.125		0.132	0.257	No
	Front	0.119		0.132	0.251	No
	Edge 2(Right)	1.118		0.132	1.250	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.125	0.264			0.389	No
	Front	0.119	0.218			0.337	No
	Edge 2(Right)	1.118	--			1.118	No
	Rear	0.125		0.364		0.489	No
	Front	0.119		0.313		0.432	No
	Edge 2(Right)	1.118		--		1.118	No
	Rear	0.125			0.302	0.427	No
	Front	0.119			0.183	0.302	No
	Edge 2(Right)	1.118			--	1.118	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 19 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 19	2.4GHz WI-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.368	0.106		0.474	No
	Front	0.291	0.049		0.340	No
	Edge 2(Right)	1.280	--		1.280	No
	Rear	0.368		0.132	0.500	No
	Front	0.291		0.132	0.423	No
	Edge 2(Right)	1.280		0.132	1.412	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 19	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.368	0.264			0.632	No
	Front	0.291	0.218			0.509	No
	Edge 2(Right)	1.280	--			1.280	No
	Rear	0.368		0.364		0.732	No
	Front	0.291		0.313		0.604	No
	Edge 2(Right)	1.280		--		1.280	No
	Rear	0.368			0.302	0.670	No
	Front	0.291			0.183	0.474	No
	Edge 2(Right)	1.280			--	1.280	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 DTS Band	Bluetooth		
Body-worn	Rear	0.153	0.106		0.259	No
	Front	0.067	0.049		0.116	No
	Edge 2(Right)	1.244	--		1.244	No
	Rear	0.153		0.132	0.285	No
	Front	0.067		0.132	0.199	No
	Edge 2(Right)	1.244		0.132	1.376	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 25	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.153	0.264			0.417	No
	Front	0.067	0.218			0.285	No
	Edge 2(Right)	1.244	--			1.244	No
	Rear	0.153		0.364		0.517	No
	Front	0.067		0.313		0.380	No
	Edge 2(Right)	1.244		--		1.244	No
	Rear	0.153			0.302	0.455	No
	Front	0.067			0.183	0.250	No
	Edge 2(Right)	1.244			--	1.244	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 26 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26	2.4GHz WI-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.371	0.106		0.477	No
	Front	0.301	0.049		0.350	No
	Edge 2(Right)	1.420	--		1.420	No
	Rear	0.371		0.132	0.503	No
	Front	0.301		0.132	0.433	No
	Edge 2(Right)	1.420		0.132	**1.552**	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.371	0.264			0.635	No
	Front	0.301	0.218			0.519	No
	Edge 2(Right)	1.420	--			1.420	No
	Rear	0.371		0.364		0.735	No
	Front	0.301		0.313		0.614	No
	Edge 2(Right)	1.420		--		1.420	No
	Rear	0.371			0.302	0.673	No
	Front	0.301			0.183	0.484	No
	Edge 2(Right)	1.420			--	1.420	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 DTS Band	Bluetooth		
Body-worn	Rear	0.055	0.106		0.161	No
	Front	0.021	0.049		0.070	No
	Edge 2(Right)	1.403	--		1.403	No
	Rear	0.055		0.132	0.187	No
	Front	0.021		0.132	0.153	No
	Edge 2(Right)	1.403		0.132	1.535	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.055	0.264			0.319	No
	Front	0.021	0.218			0.239	No
	Edge 2(Right)	1.403	--			1.403	No
	Rear	0.055		0.364		0.419	No
	Front	0.021		0.313		0.334	No
	Edge 2(Right)	1.403		--		1.403	No
	Rear	0.055			0.302	0.357	No
	Front	0.021			0.183	0.204	No
	Edge 2(Right)	1.403			--	1.403	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 DTS Band	Bluetooth		
Body-worn	Rear	0.163	0.106		0.269	No
	Front	0.022	0.049		0.071	No
	Edge 2(Right)	1.190	--		1.190	No
	Rear	0.163		0.132	0.295	No
	Front	0.022		0.132	0.154	No
	Edge 2(Right)	1.190		0.132	1.322	No

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.2GHz Wi-Fi DTS Band	5.3GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Body-worn	Rear	0.163	0.264			0.427	No
	Front	0.022	0.218			0.240	No
	Edge 2(Right)	1.190	--			1.190	No
	Rear	0.163		0.364		0.527	No
	Front	0.022		0.313		0.335	No
	Edge 2(Right)	1.190		--		1.190	No
	Rear	0.163			0.302	0.465	No
	Front	0.022			0.183	0.205	No
	Edge 2(Right)	1.190			--	1.190	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 “

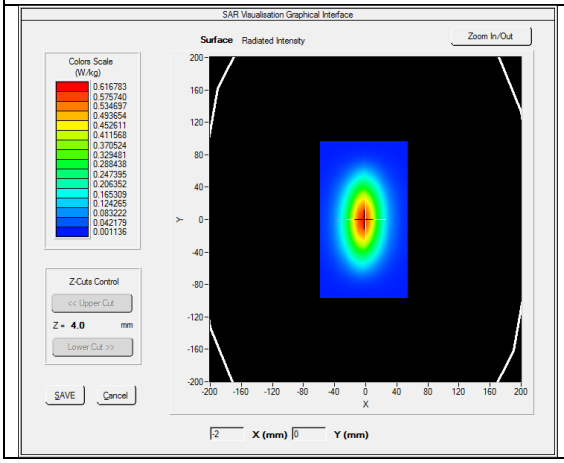
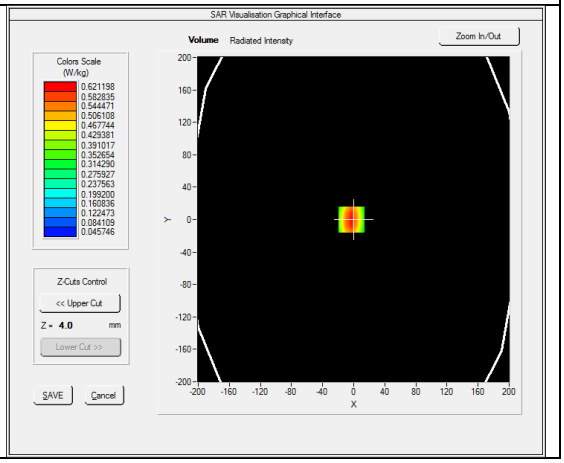
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Aug. 06,2022**
System Check Head 750 MHz
DUT: Dipole 750 MHz Type: SID 750
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=1.39
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ =0.92 mho/m; ε_r =42.36; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.4, Liquid temperature (℃): 22.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

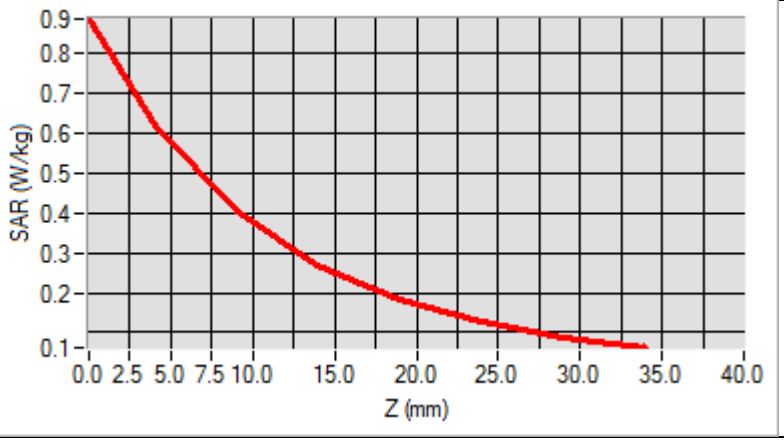
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

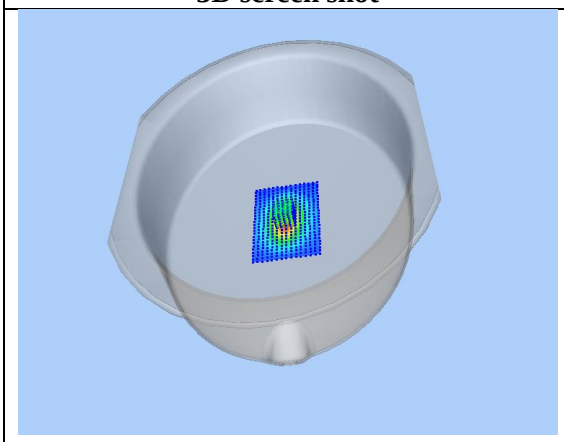
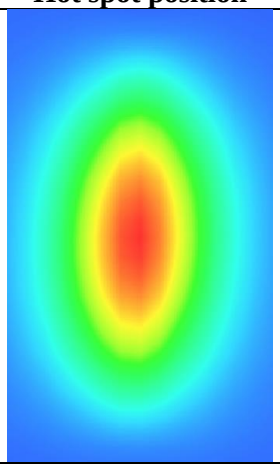
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=0.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.350326
SAR 1g (W/Kg)	0.567529

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8827	0.6235	0.446	0.2674	0.1829	0.1228	0.0847



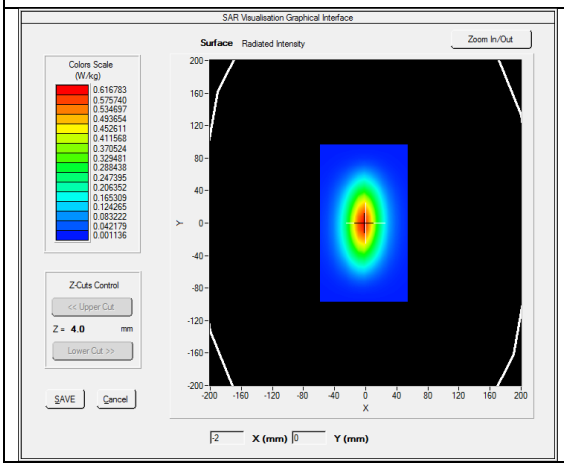
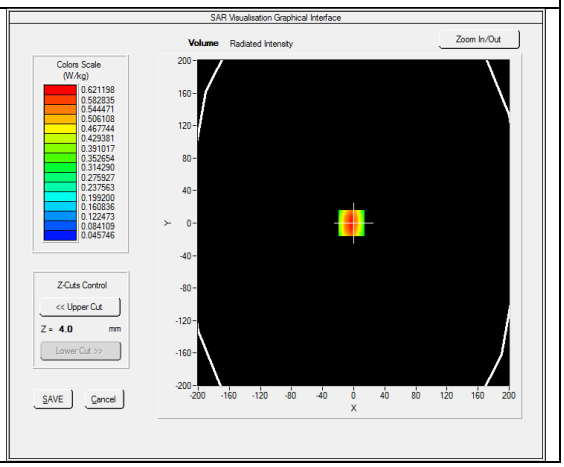
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 01,2022**
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=1.42
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ =0.93 mho/m; ε r =41.23; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

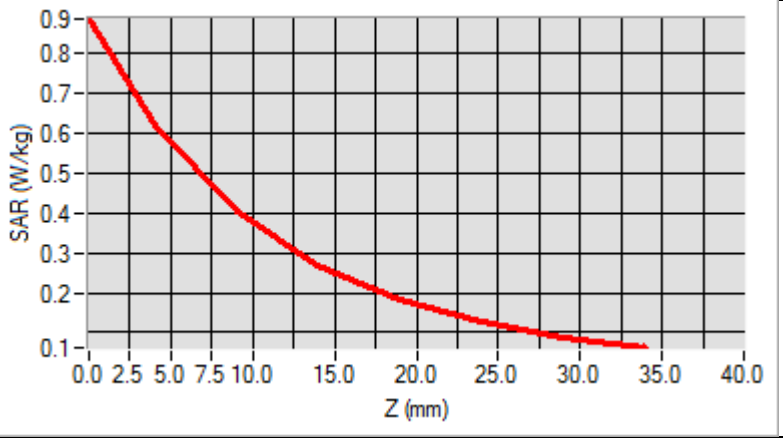
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

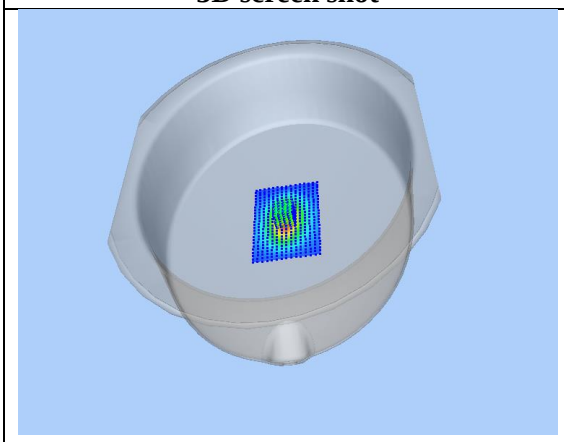
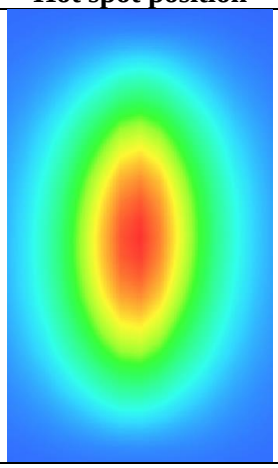
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=0.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.373652
SAR 1g (W/Kg)	0.594675

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8849	0.6212	0.4014	0.2681	0.1829	0.1267	0.0886



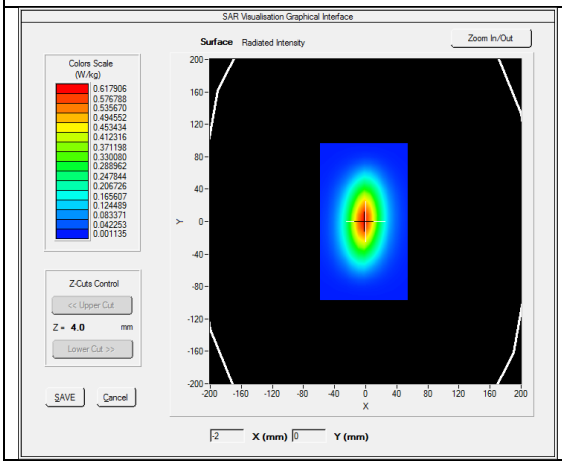
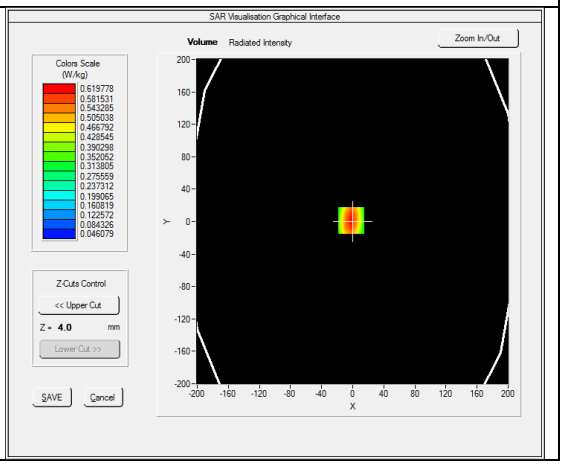
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 02,2022**
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=1.42
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ =0.90 mho/m; ε r =40.69; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

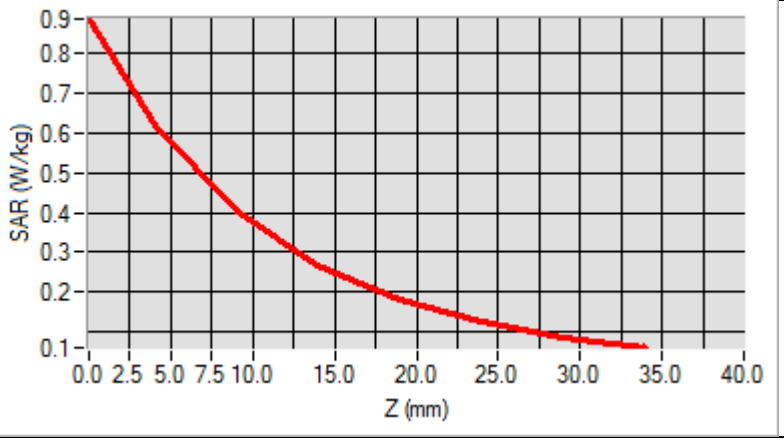
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

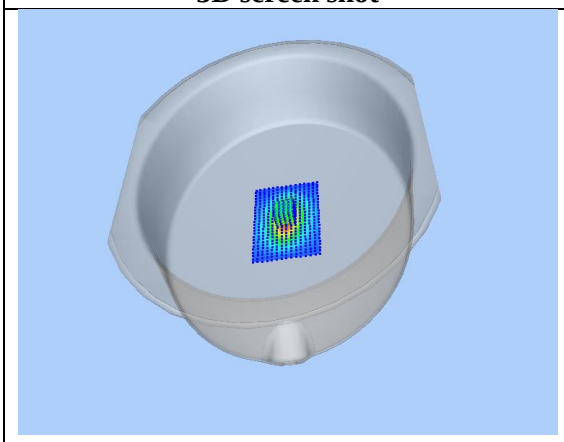
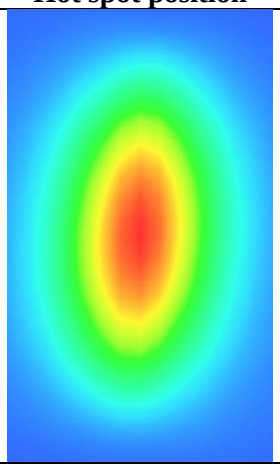
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=1.00
SAR Peak: 0.88 W/kg

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

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8847	0.6162	0.4073	0.2625	0.1881	0.1234	0.0825



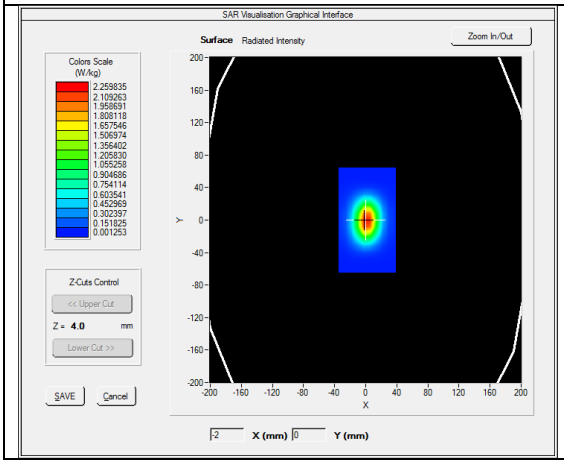
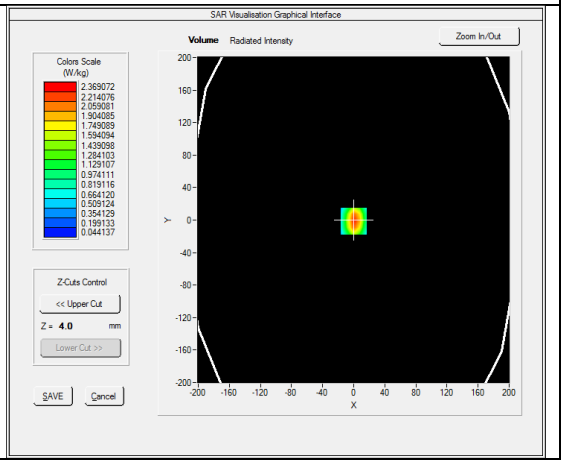
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 03,2022**
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=1.73
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ =1.35 mho/m; ε_r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

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

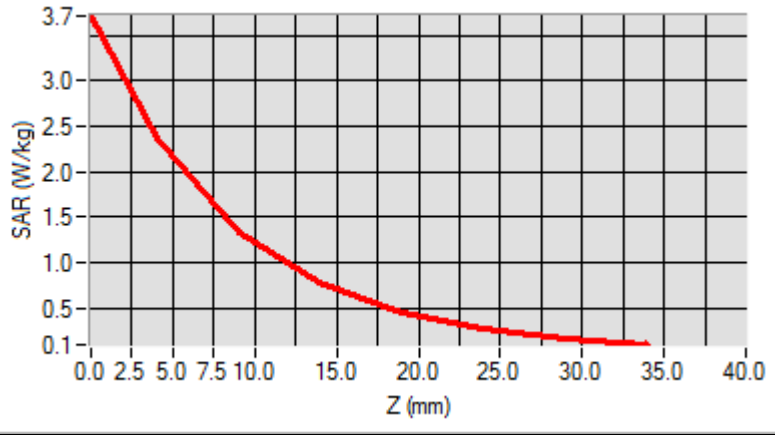
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

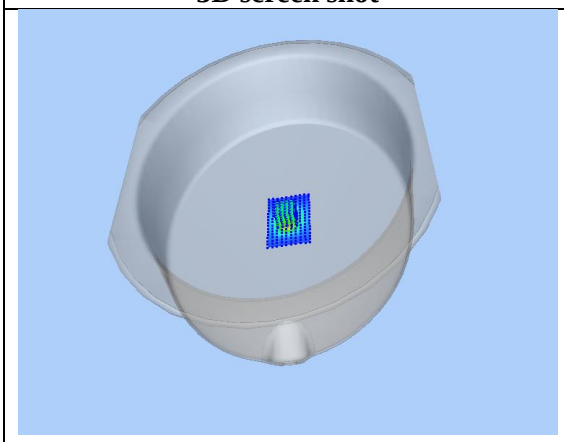
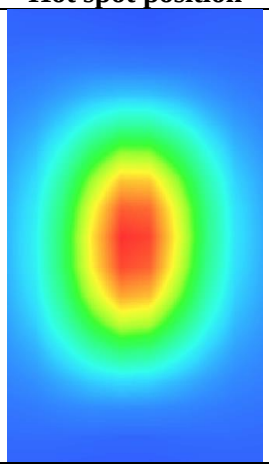
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-1.00
SAR Peak: 3.72 W/kg

SAR 10g (W/Kg)	1.217652
SAR 1g (W/Kg)	2.231475

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.7137	2.3682	1.3245	0.7747	0.4530	0.2774	0.1695



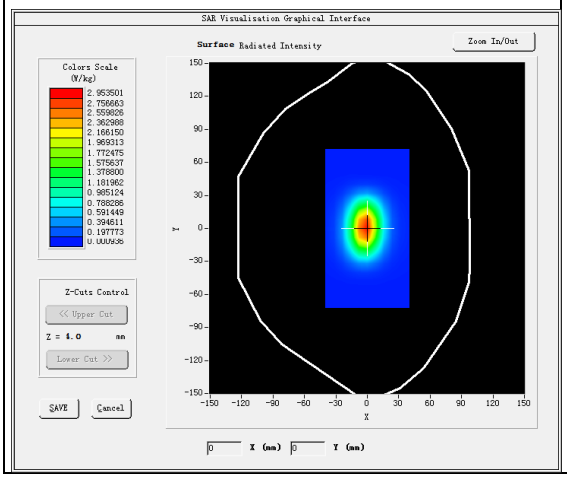
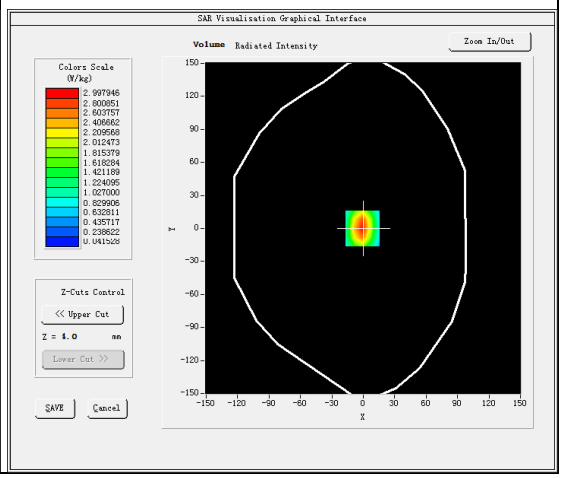
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 07,2022**
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=1.77
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.36 mho/m; ε r =39.03; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

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

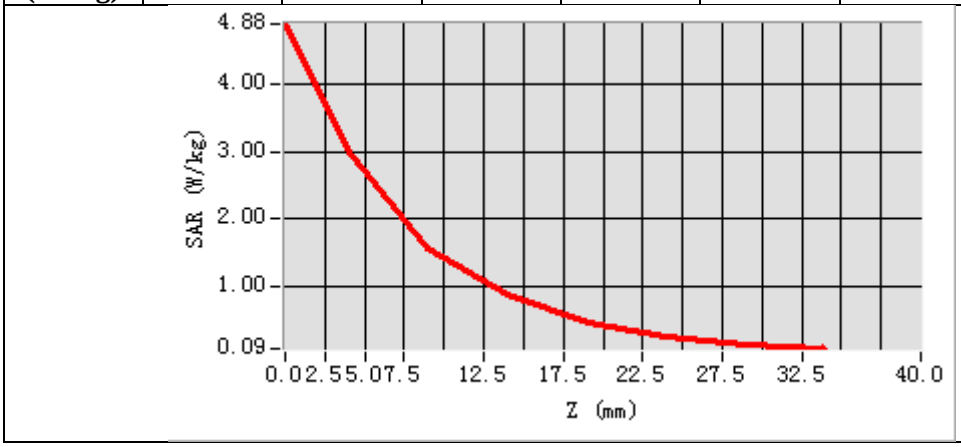
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

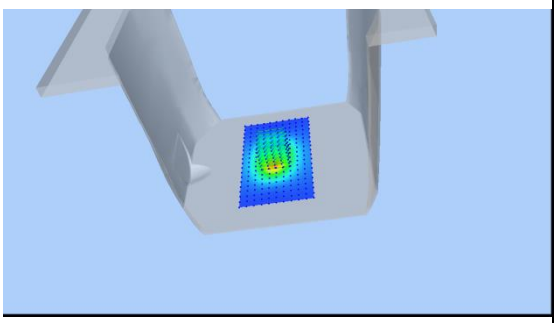
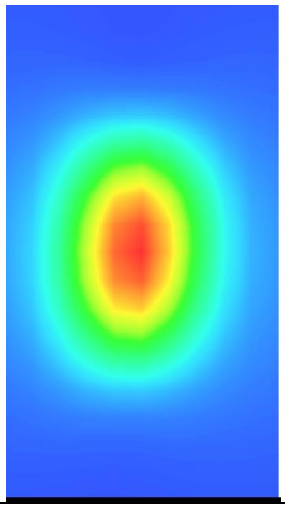
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 4.87 W/kg

SAR 10g (W/Kg)	1.360762
SAR 1g (W/Kg)	2.754983

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.8774	2.9935	1.5828	0.8814	0.4905	0.2807	0.1603



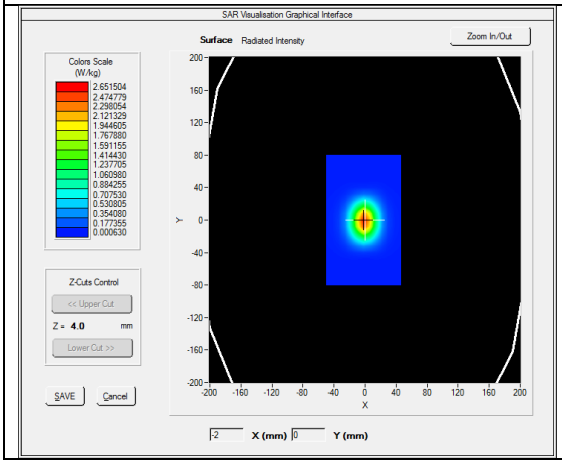
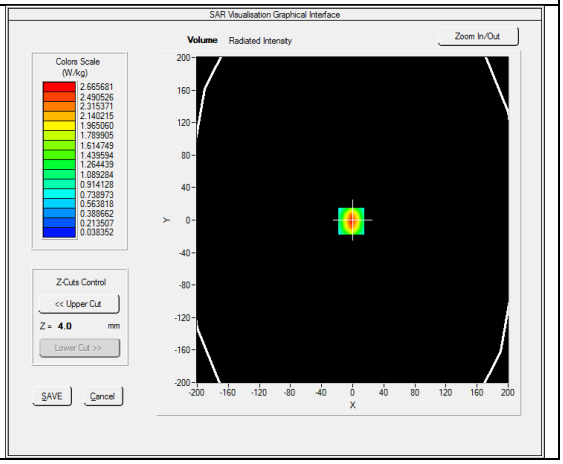
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 08,2022**
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=1.77
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.38 mho/m; ε r =39.56; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.5, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

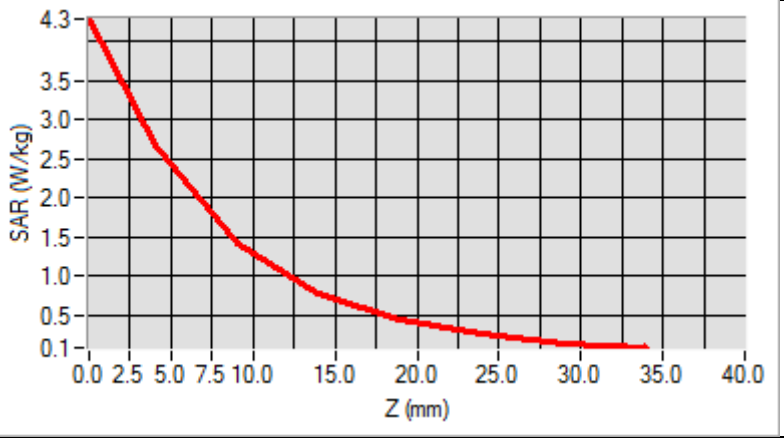
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

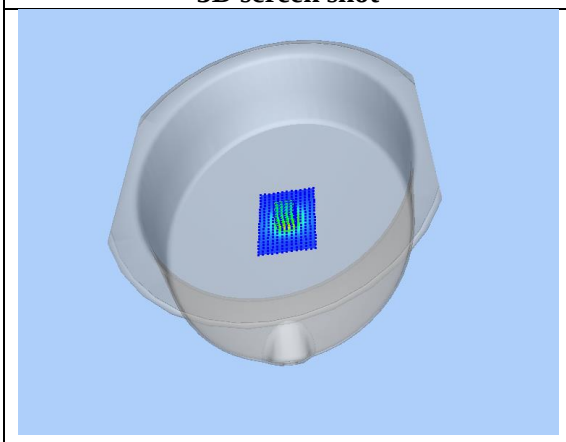
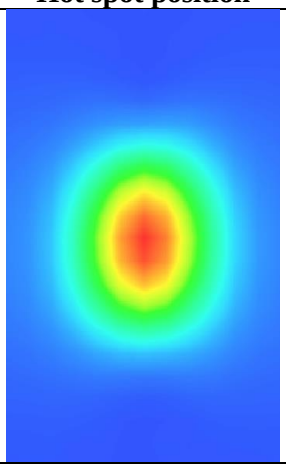
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-1.00
SAR Peak: 4.27 W/kg

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

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2928	2.6663	1.4271	0.7872	0.4446	0.2574	0.1442



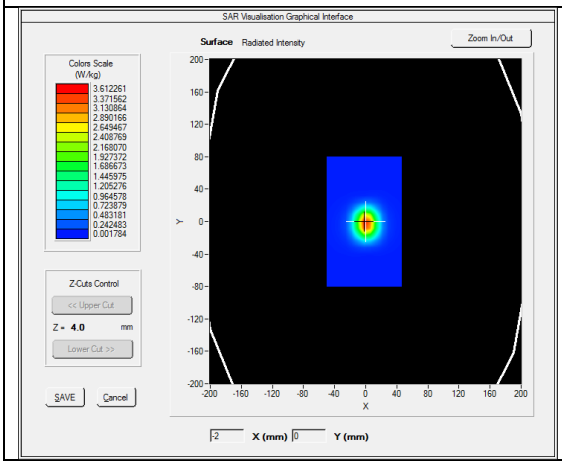
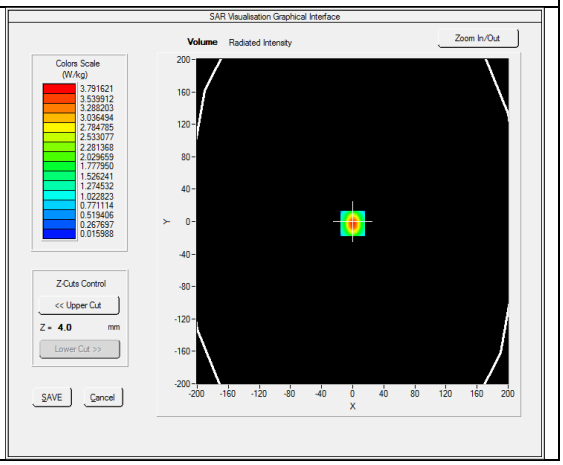
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 04,2022**
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=1.99
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; ε r =39.21; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.7, Liquid temperature (℃): 21.5

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

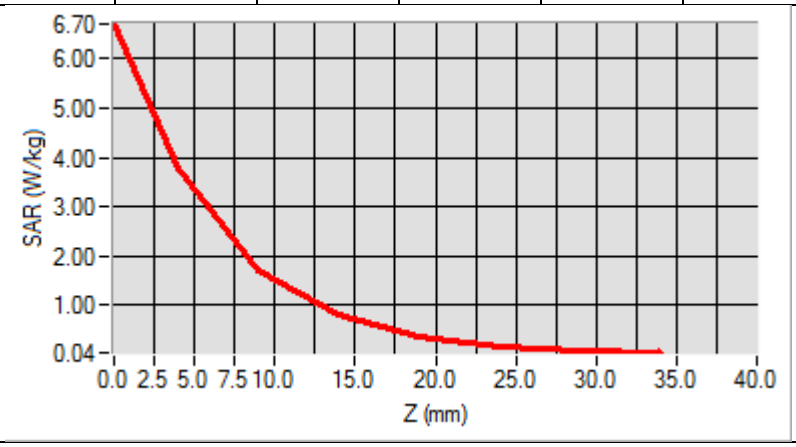
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

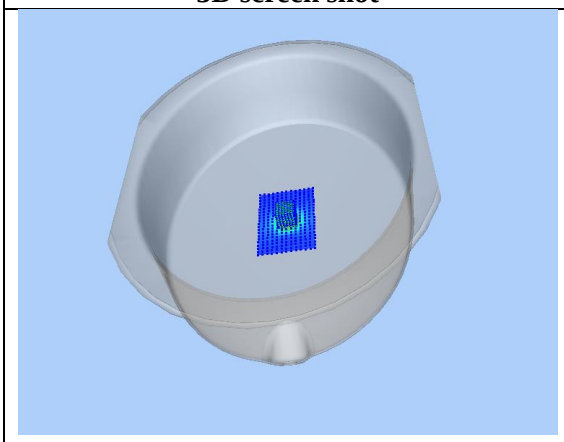
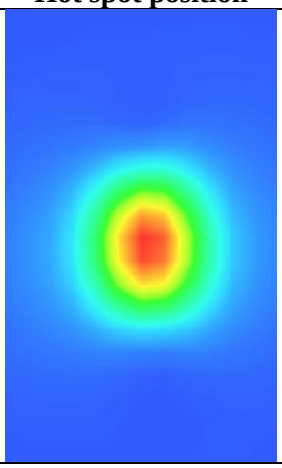
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-2.00
SAR Peak: 6.60 W/kg

SAR 10g (W/Kg)	1.566359
SAR 1g (W/Kg)	3.481752

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7004	3.7916	1.7201	0.8031	0.3801	0.1811	0.0875



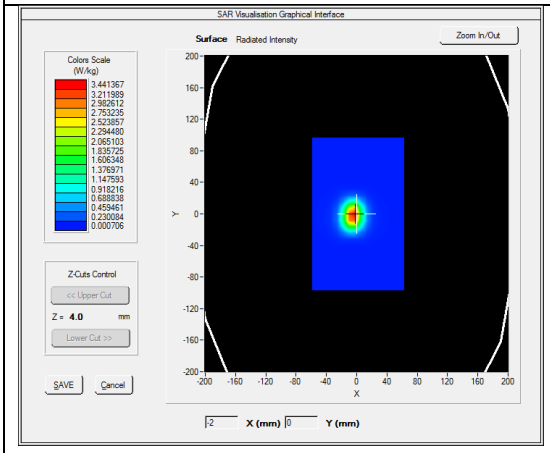
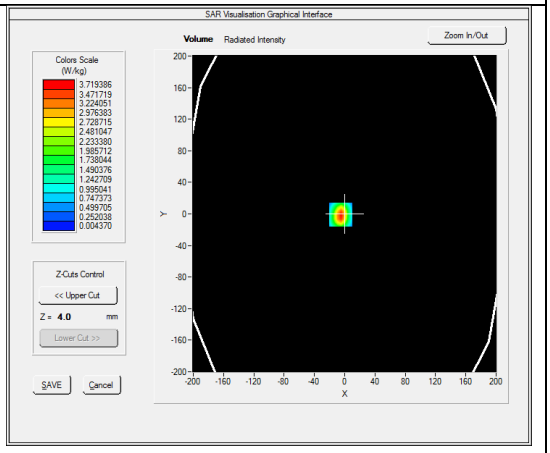
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 12,2022**
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=1.82
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ =1.91 mho/m; ε_r =38.75; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

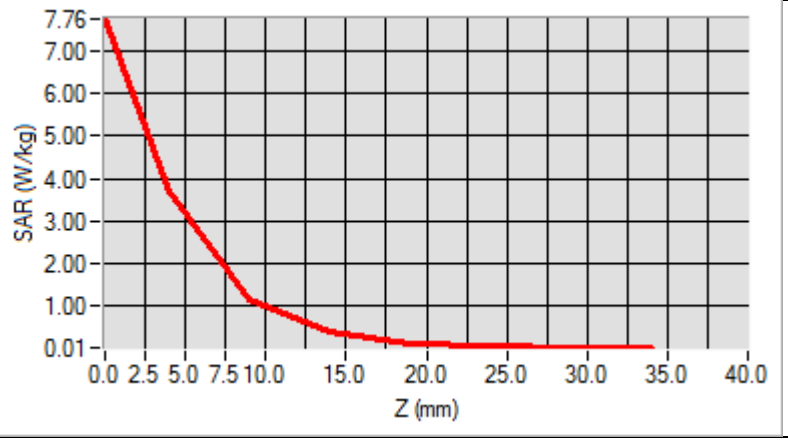
Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

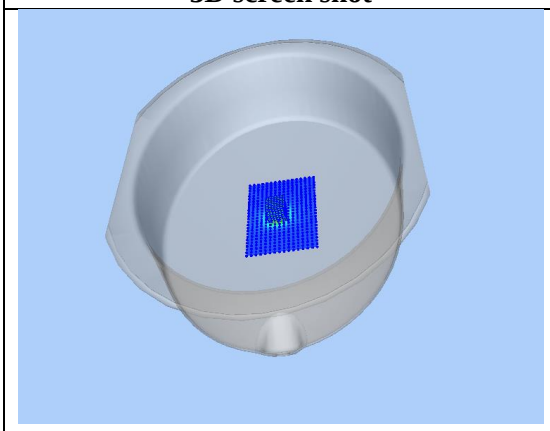
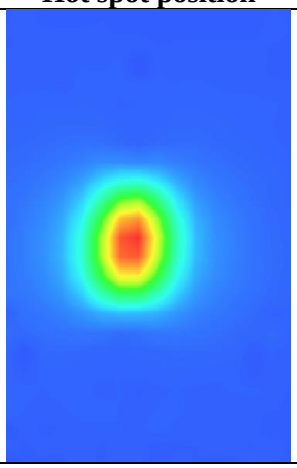
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-5.00, Y=-1.00
SAR Peak: 7.59 W/kg

SAR 10g (W/Kg)	1.520265
SAR 1g (W/Kg)	3.491136

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.7618	3.7172	1.1576	0.3725	0.1241	0.0462	0.0173

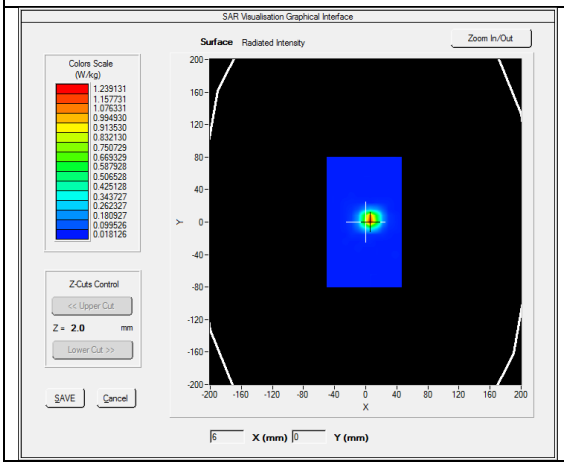
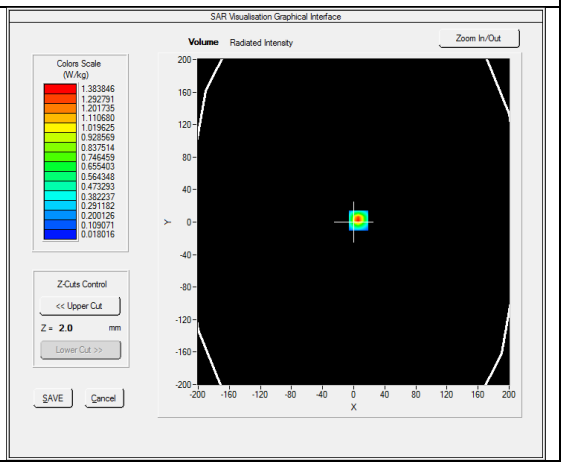


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 09,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.28
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.62 mho/m; εr =35.96; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.5, Liquid temperature (℃): 22.3

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

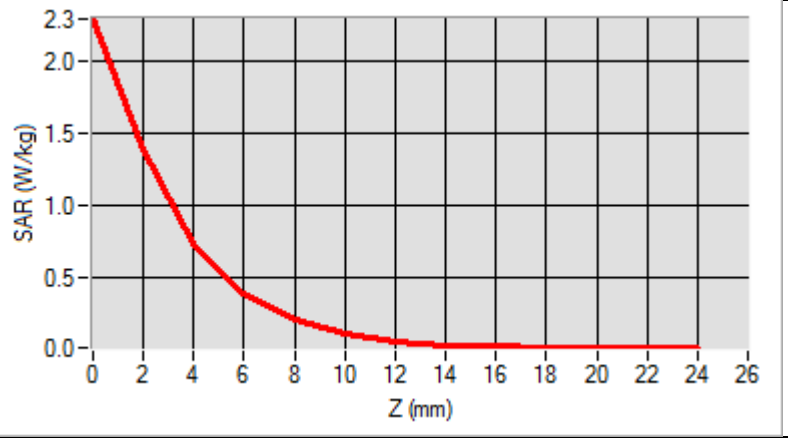
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

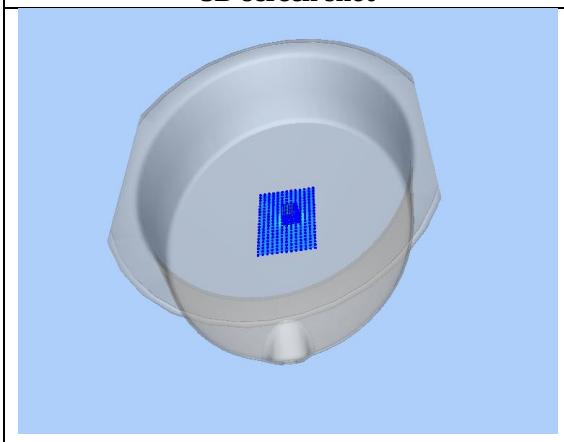
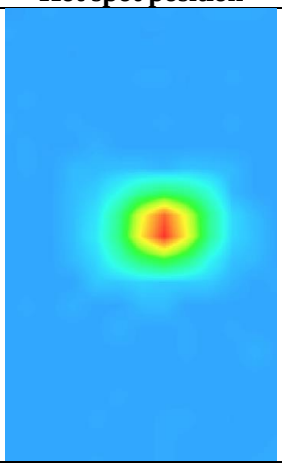
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=2.00
SAR Peak: 2.41 W/kg

SAR 10g (W/Kg)	0.230830
SAR 1g (W/Kg)	0.738989

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)	2.2856	1.3838	0.7368	0.3933	0.2159	0.1156	0.0615	0.0391	0.0323	0.0212	0.0229	0.0209

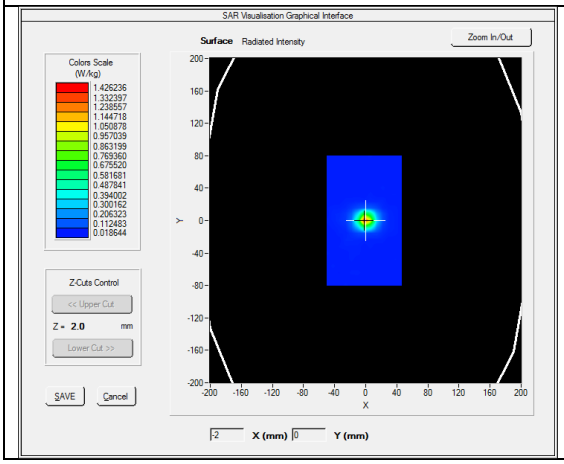
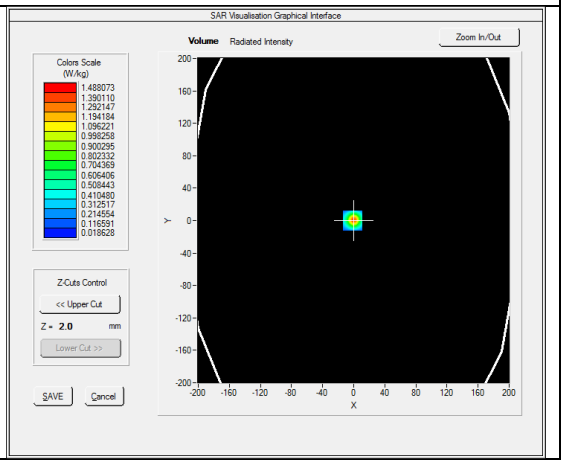


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 12,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.49
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.86 mho/m; εr =35.26; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

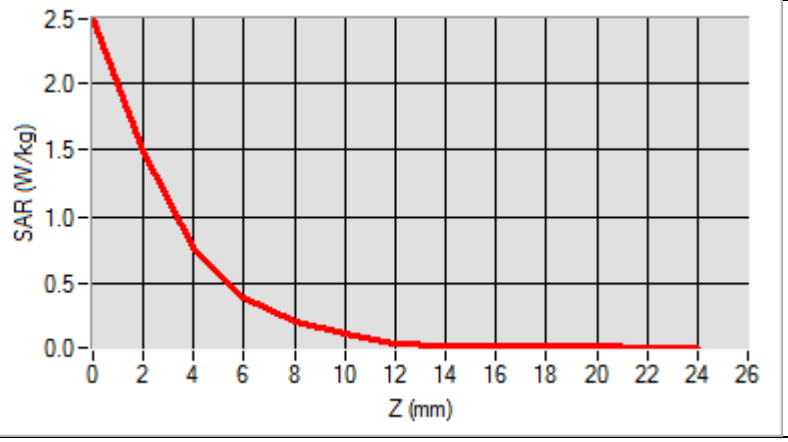
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

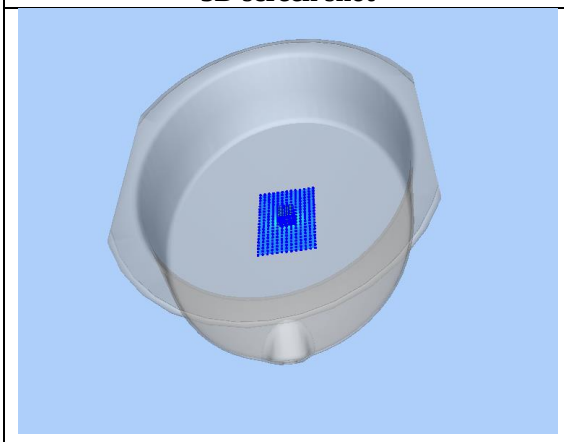
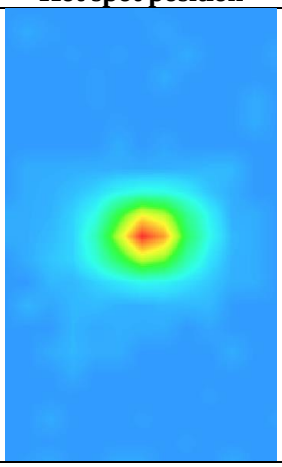
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 2.61 W/kg

SAR 10g (W/Kg)	0.238666
SAR 1g (W/Kg)	0.779242

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)	2.4810	1.4881	0.7718	0.4006	0.2130	0.1190	0.0533	0.0326	0.0289	0.0284	0.0279	0.0190



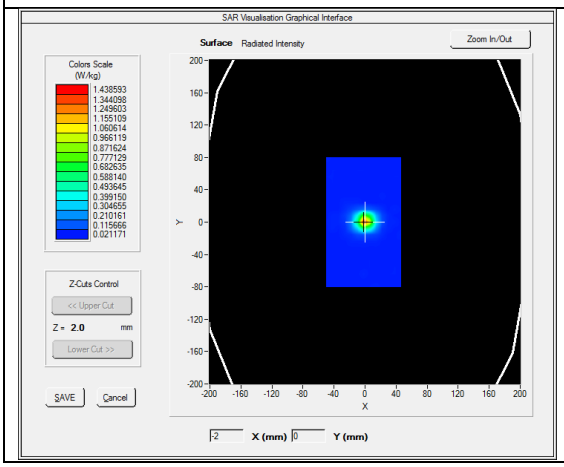
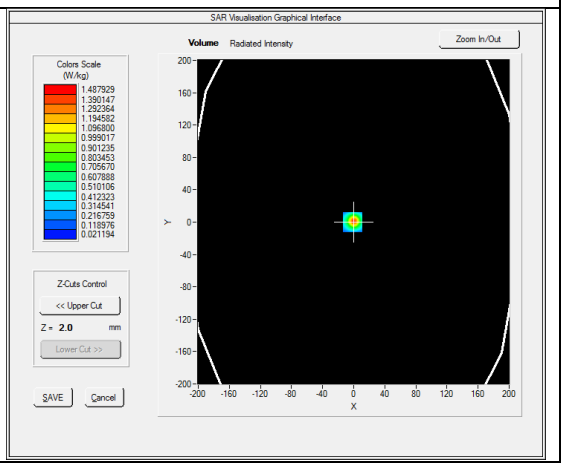
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 11,2022**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.42
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.36 mho/m; εr =34.25; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

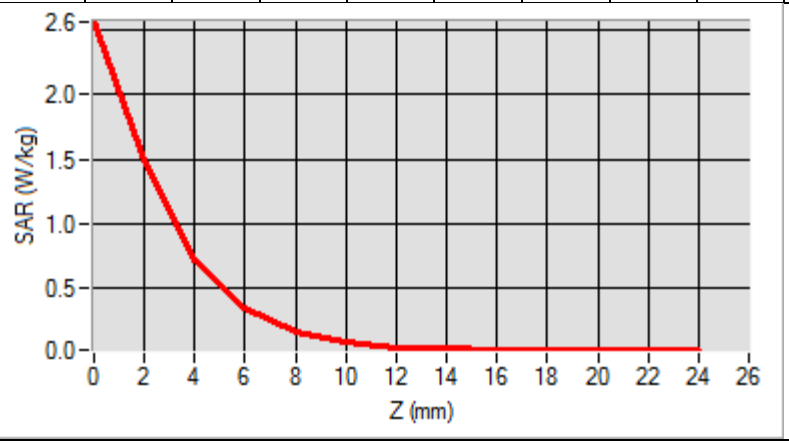
Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

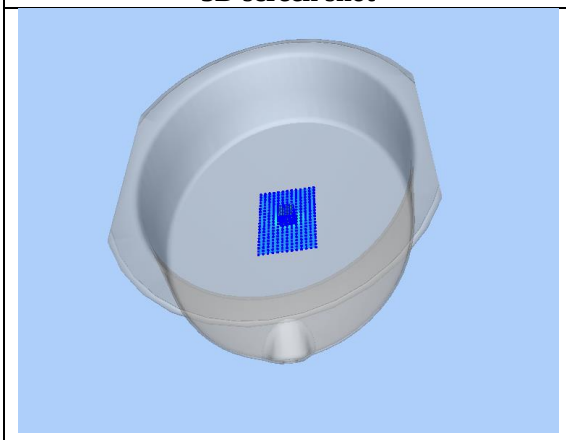
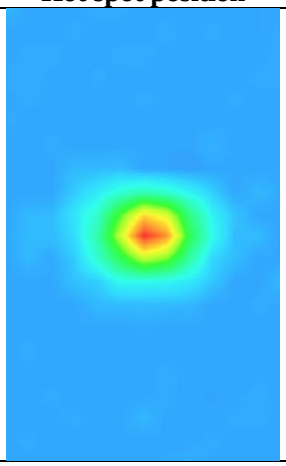
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 2.74 W/kg

SAR 10g (W/Kg)	0.242768
SAR 1g (W/Kg)	0.783239

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)	2.5642	1.4879	0.7157	0.3500	0.1698	0.0876	0.0439	0.0360	0.0242	0.0267	0.0271	0.0267



3D screen shot	Hot spot position
	

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Aug. 01,2022**
GSM 850 Mid- Body- Back (MS)<SIM 1>
DUT: AI POS Terminal; Type: P8

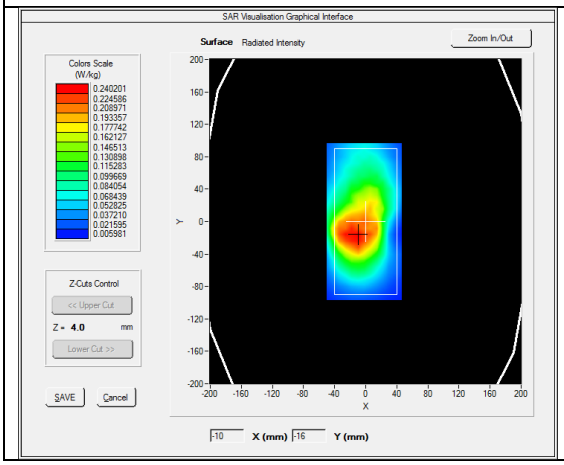
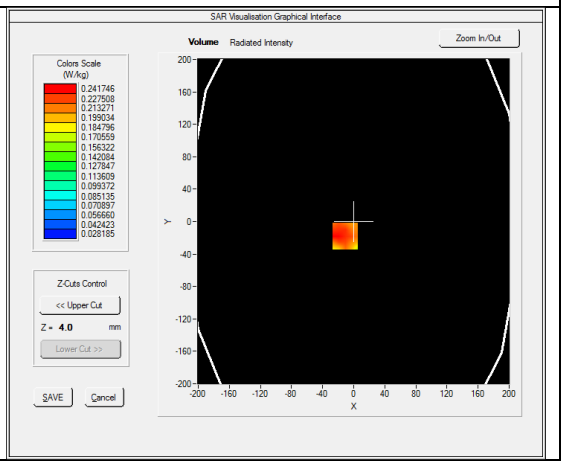
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.42; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ = 0.95 mho/m; ε r = 40.39; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

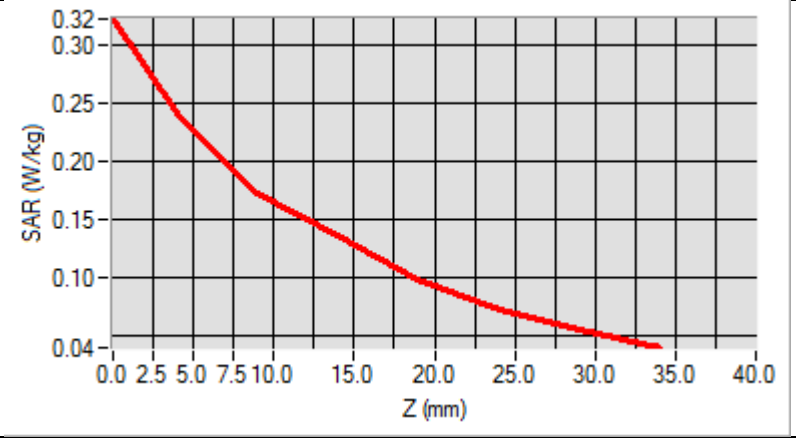
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

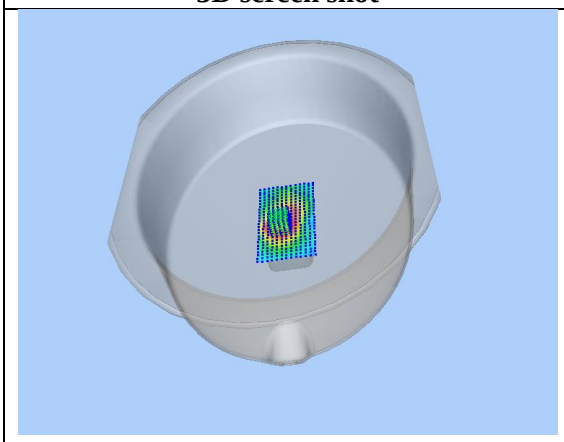
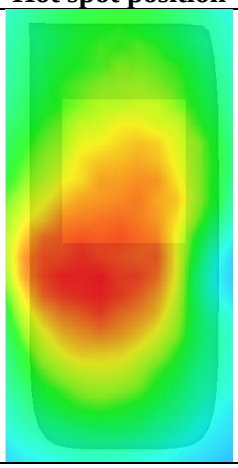
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=-18.00
SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.176835
SAR 1g (W/Kg)	0.236223

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3219	0.2417	0.1719	0.1358	0.0985	0.0722	0.0545



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 01,2022**
GPRS 850 Mid-Edge 2 (2up)
DUT: AI POS Terminal; Type: P8

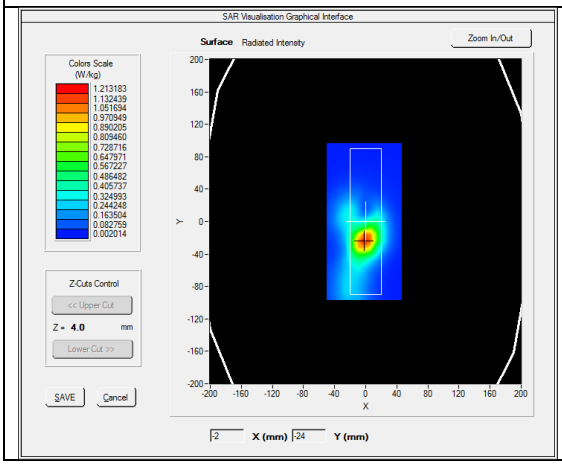
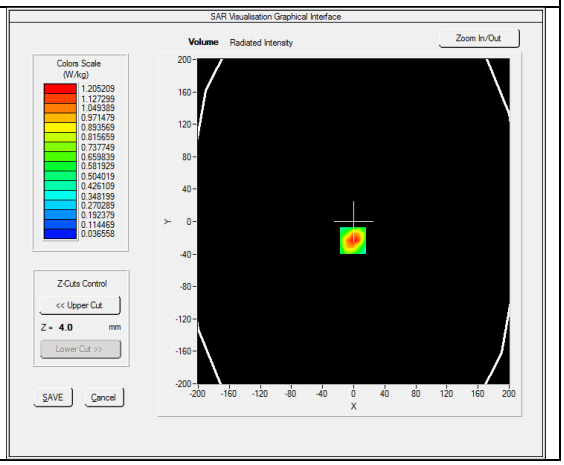
Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.42;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ = 0.95 mho/m; ε r = 40.39; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

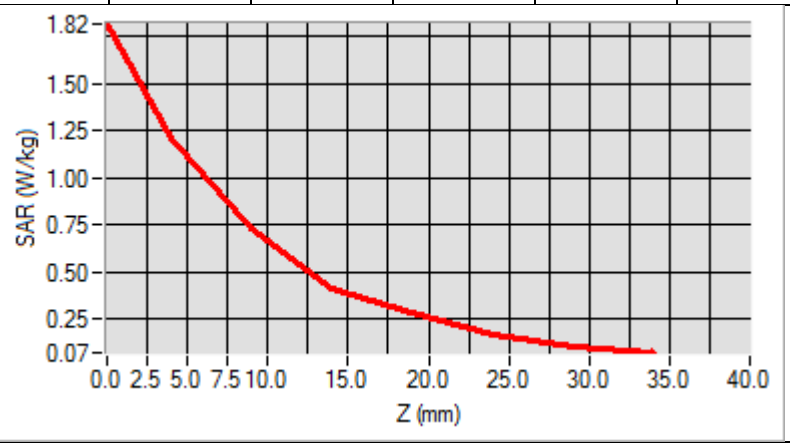
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 2
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

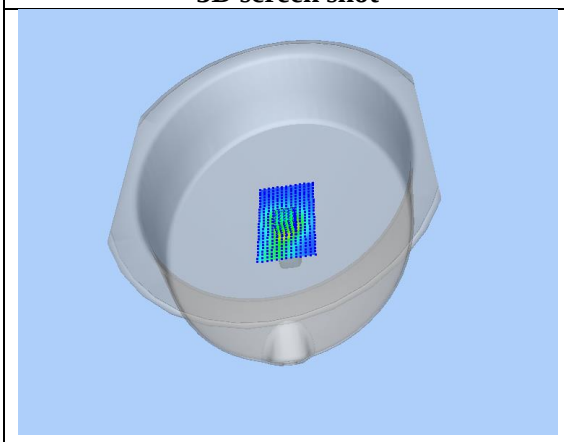
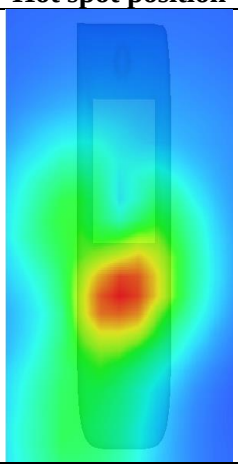
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-23.00
SAR Peak: 1.94 W/kg

SAR 10g (W/Kg)	0.625784
SAR 1g (W/Kg)	1.141021

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7150	1.2052	0.7283	0.4166	0.2830	0.1727	0.1081



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 07,2022**
PCS 1900 Mid-Body -Front (MS) <SIM 1>
DUT: AI POS Terminal; Type: P8

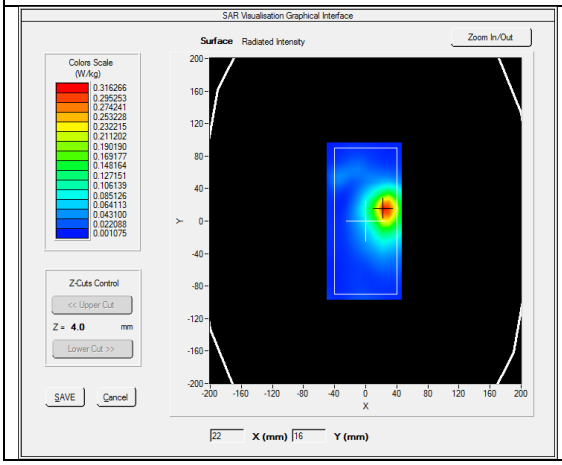
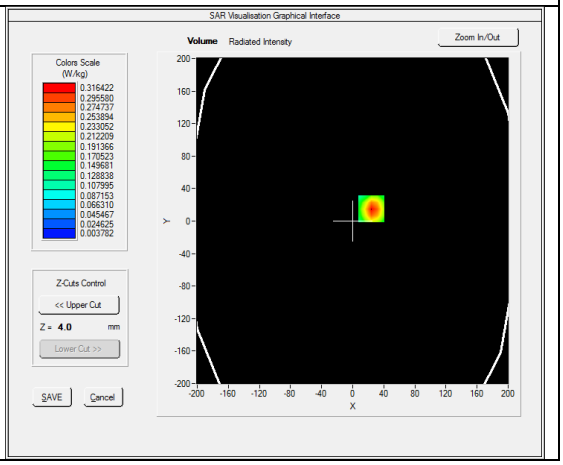
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ = 1.34 mho/m; ε r =40.35; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

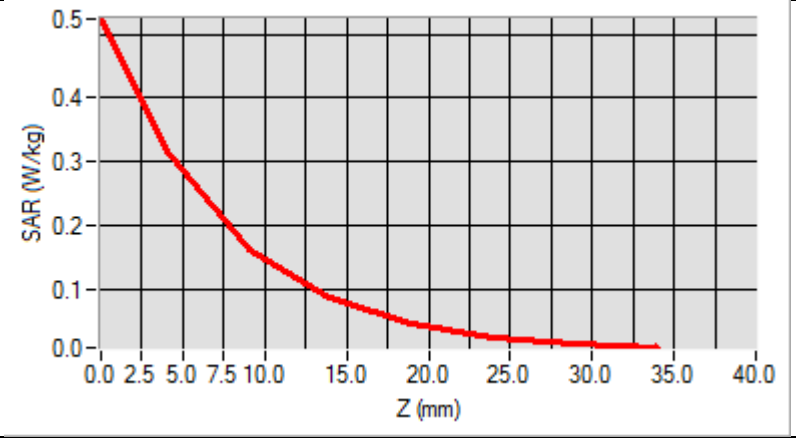
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Front
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

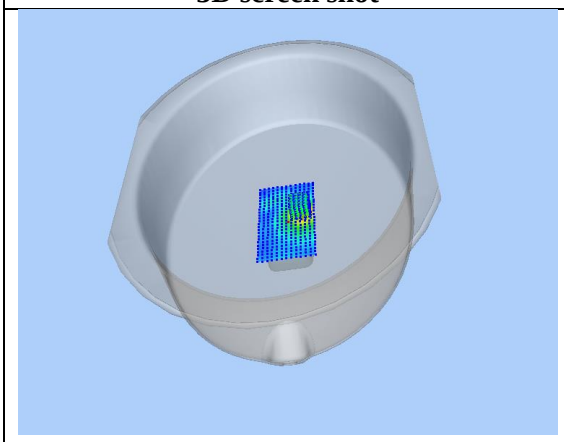
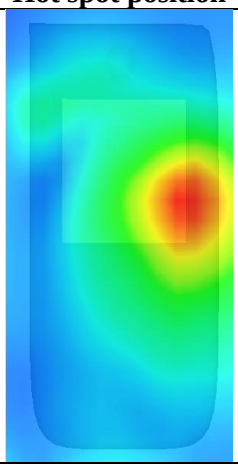
SURFACE SAR	VOLUME SAR
	

Maximum location: X=24.00, Y=15.00
SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.156327
SAR 1g (W/Kg)	0.302466

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5246	0.3164	0.1610	0.0863	0.0461	0.0235	0.0133



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 07,2022**
GPRS 1900 Mid-Edge 2 (3up)
DUT: AI POS Terminal; Type: P8

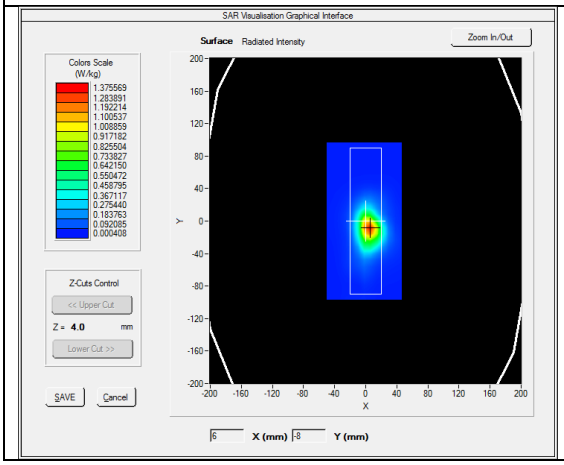
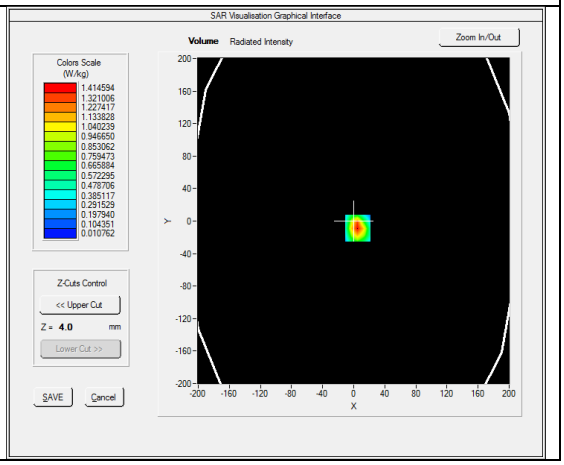
Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=1.77; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ = 1.34 mho/m; ε_r =40.35; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Mid-Edge 2/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

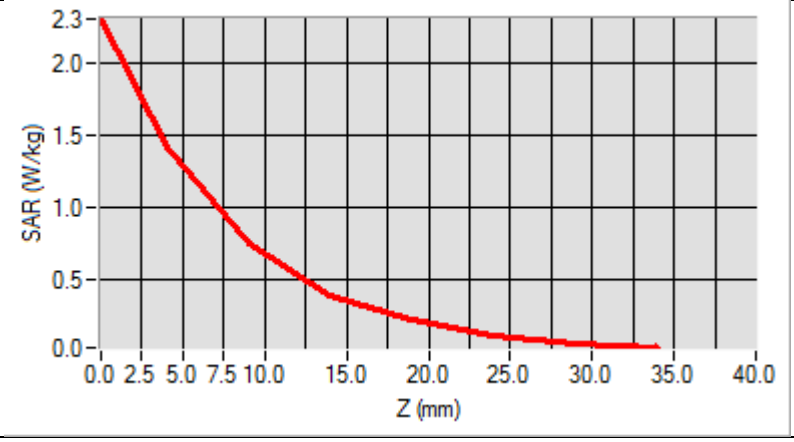
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 2
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)

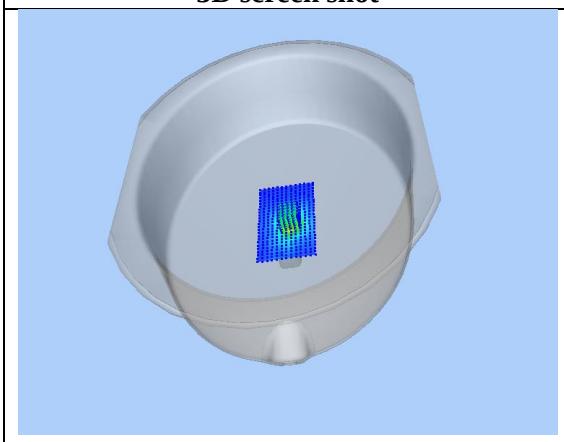
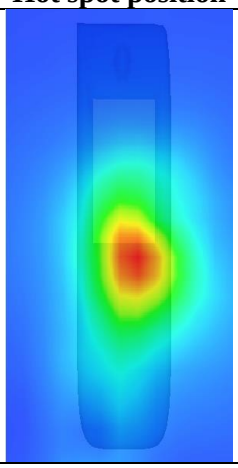
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-9.00
SAR Peak: 2.48 W/kg

SAR 10g (W/Kg)	0.624560
SAR 1g (W/Kg)	1.339227

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.2985	1.4146	0.7502	0.3963	0.2271	0.1154	0.0623



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 07,2022**
WCDMA Band II Low-Edge 2(RMC)
DUT: AI POS Terminal; Type: P8

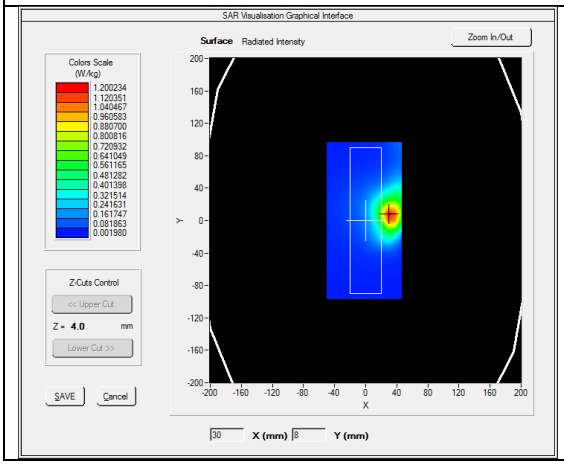
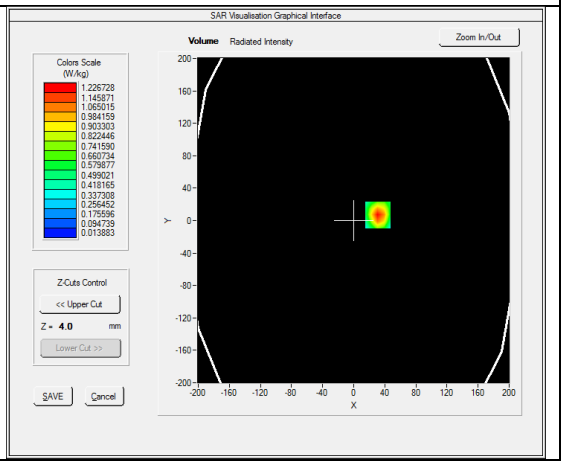
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=1.77
Frequency: 1852.4 MHz; Medium parameters used: f = 1800 MHz; σ =1.32 mho/m; ε r =41.36; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

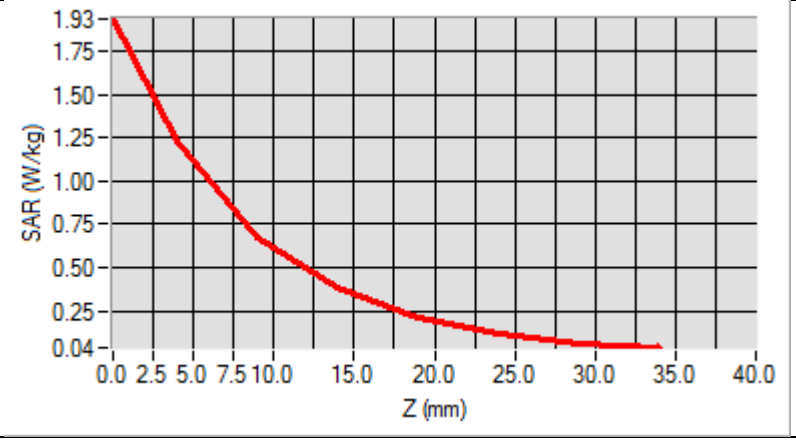
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 2
Band	WCDMA band II
Channels	Low
Signal	CDMA (Crest factor: 1.0)

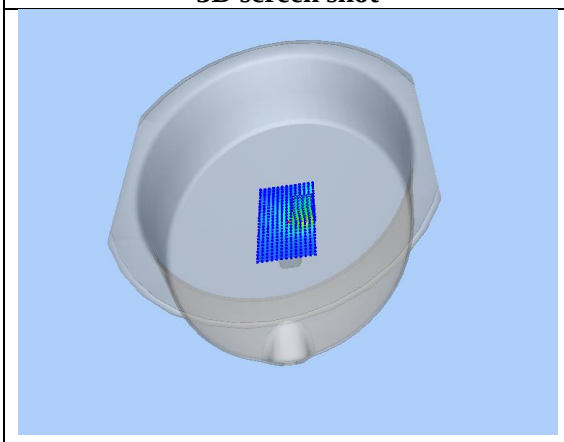
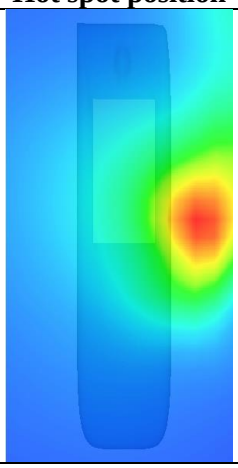
SURFACE SAR	VOLUME SAR
	

Maximum location: X=31.00, Y=7.00
SAR Peak: 1.95 W/kg

SAR 10g (W/Kg)	0.594339
SAR 1g (W/Kg)	1.153341

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.9343	1.2267	0.6731	0.3794	0.2104	0.1155	0.0648



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 03,2022**

WCDMA Band Ⅳ High- Edge 2(Right) (RMC)

DUT: AI POS Terminal; Type: P8

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.73; Frequency: 1752.6 MHz; Medium parameters used: f = 1800MHz; σ = 1.36 mho/m; ε r =40.26; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

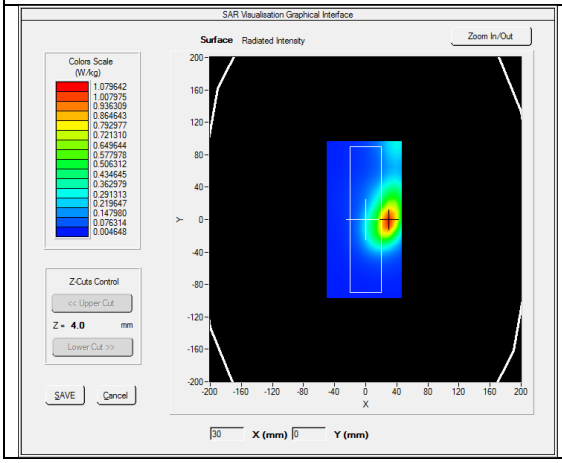
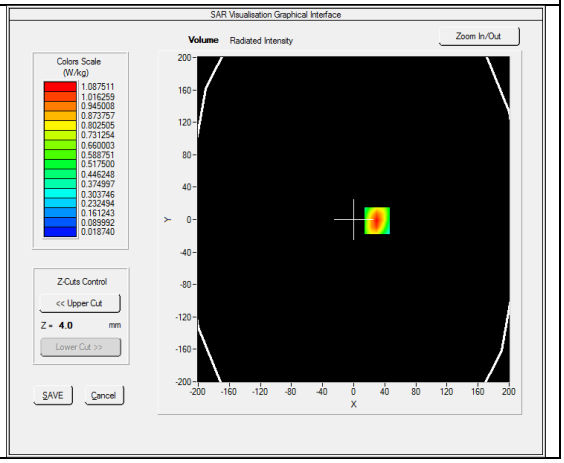
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

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

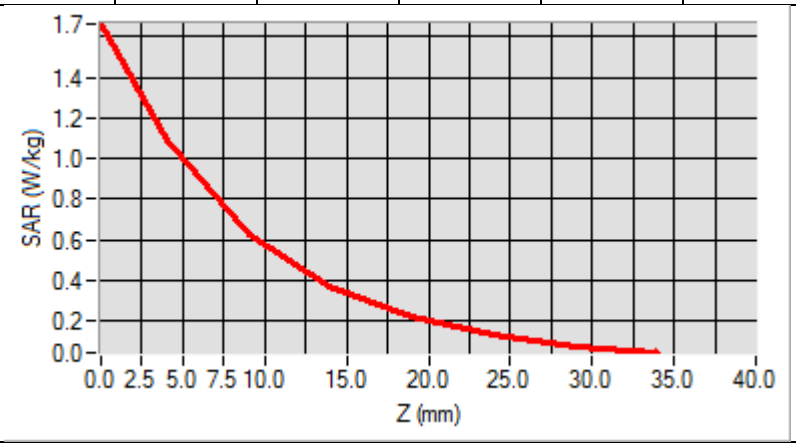
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 2(Right)
Band	WCDMA Band IV
Channels	High
Signal	CDMA (Crest factor: 1.0)

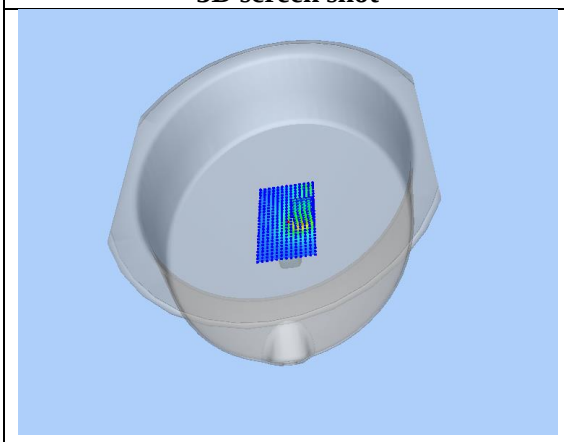
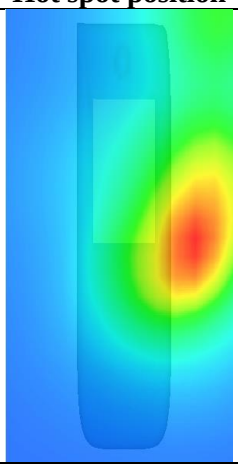
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=30.00, Y=-1.00
SAR Peak: 1.67 W/kg

SAR 10g (W/Kg)	0.559317
SAR 1g (W/Kg)	1.026092

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6622	1.0875	0.6273	0.3728	0.2179	0.1278	0.0746



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 01,2022**

WCDMA Band Ⅴ High-Edge 2(Right) (RMC)

DUT: AI POS Terminal; Type: P8

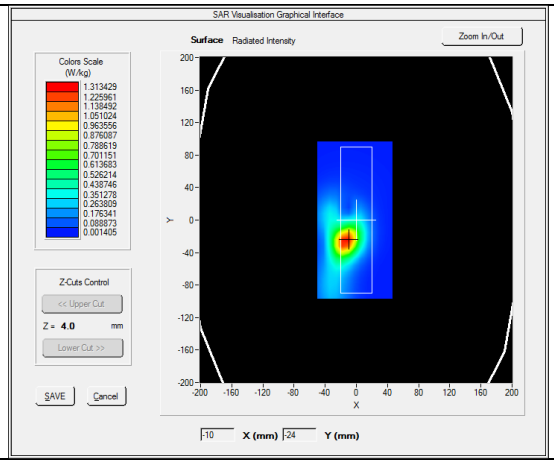
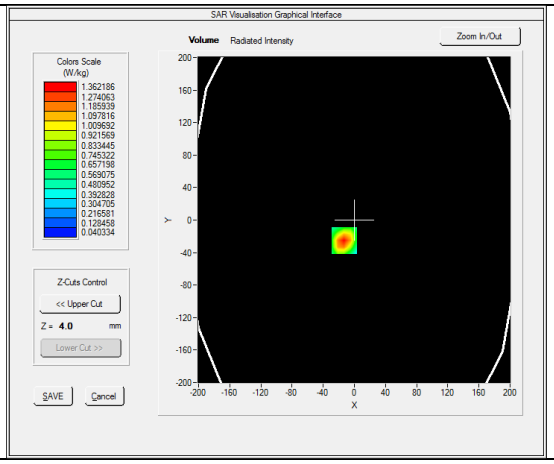
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.42; Frequency: 846.6 MHz; Medium parameters used: f = 835MHz; σ = 0.96 mho/m; ε r = 39.86; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

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

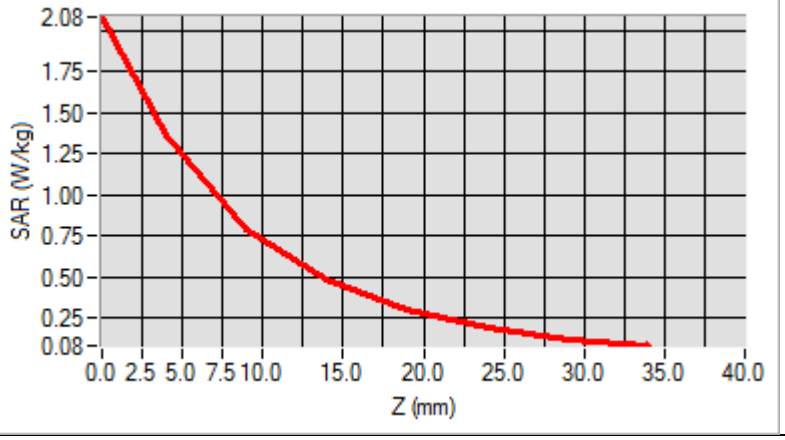
SURFACE SAR	VOLUME SAR
	

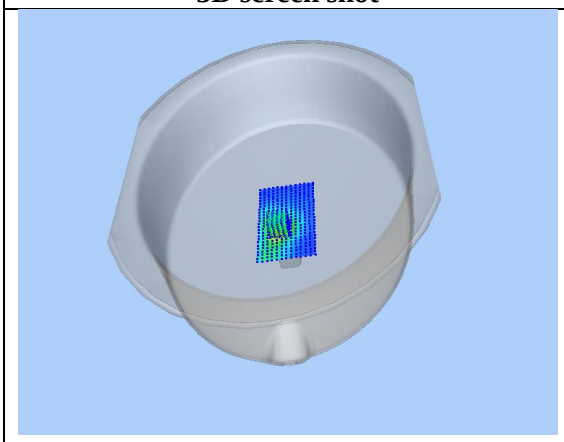
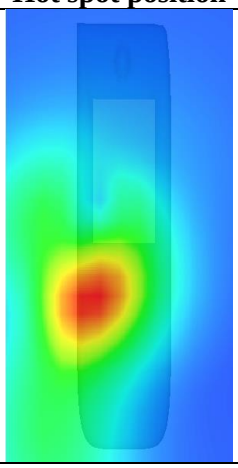
Maximum location: X=-13.00, Y=-25.00

SAR Peak: 2.08 W/kg

SAR 10g (W/Kg)	0.712373
SAR 1g (W/Kg)	1.292069

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0841	1.3622	0.7940	0.4803	0.2999	0.1910	0.1235



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 08,2022**
LTE Band 2 Mid-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

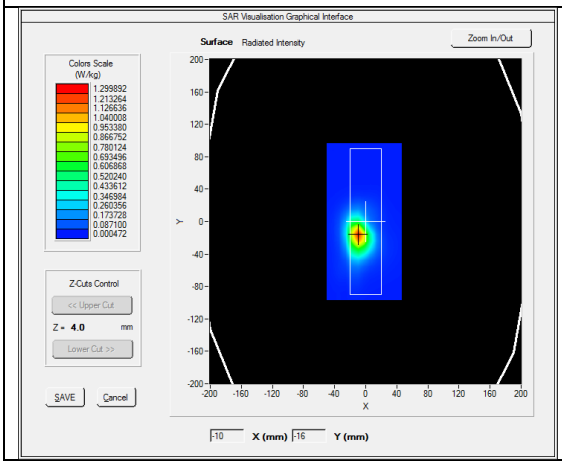
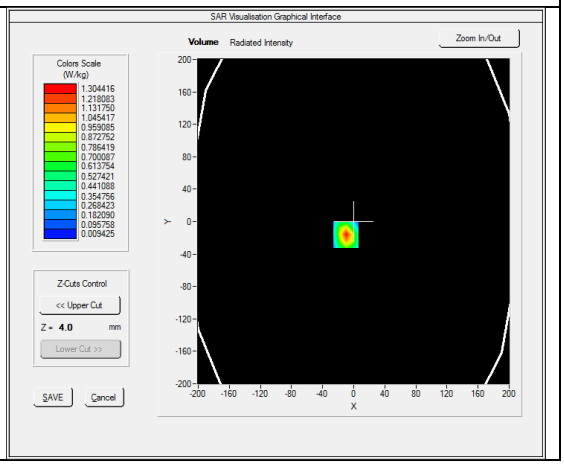
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77; Frequency:1880MHz; Medium parameters used: f = 1800 MHz; σ = 1.33 mho/m; ε_r =41.28; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.5, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

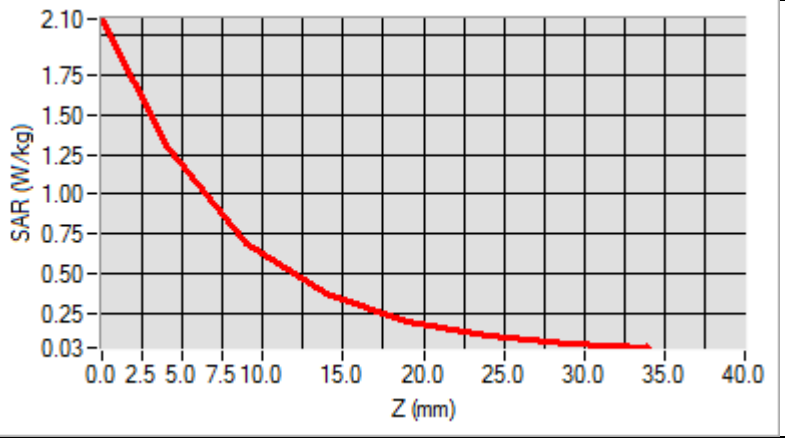
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

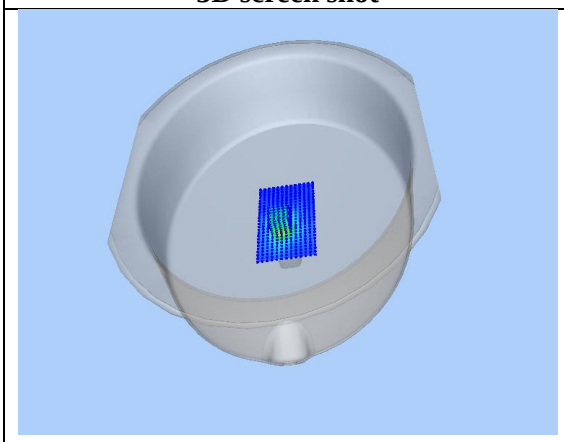
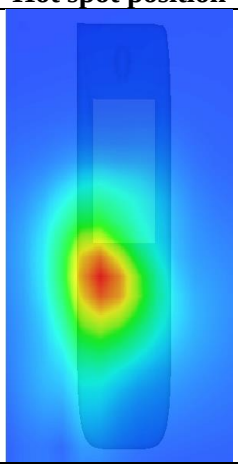
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-16.00
SAR Peak: 2.08 W/kg

SAR 10g (W/Kg)	0.569516
SAR 1g (W/Kg)	1.141366

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0031	1.2044	0.6899	0.3717	0.1980	0.1058	0.0570



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 03,2022**
LTE Band 4 Mid-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

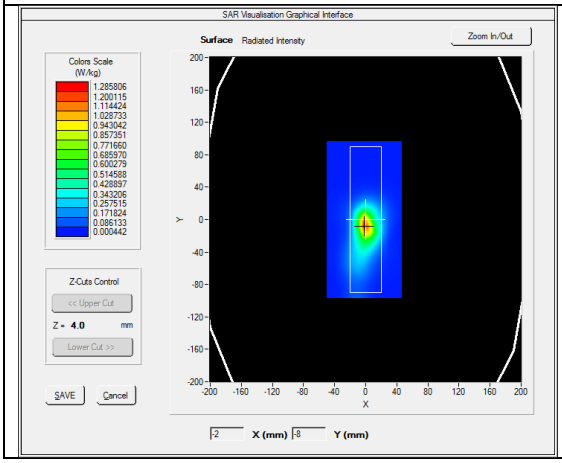
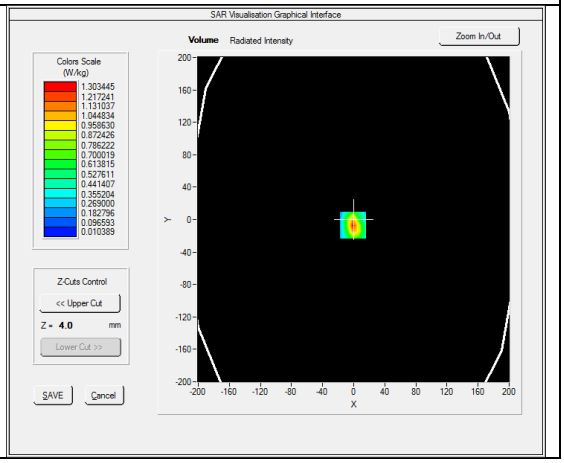
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.73; Frequency:1732.5 MHz; Medium parameters used: f = 1800 MHz; σ = 1.32 mho/m; ε r =42.76; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

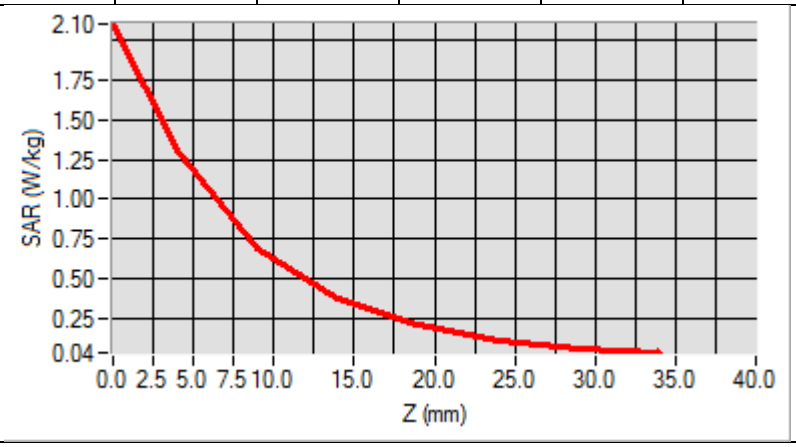
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

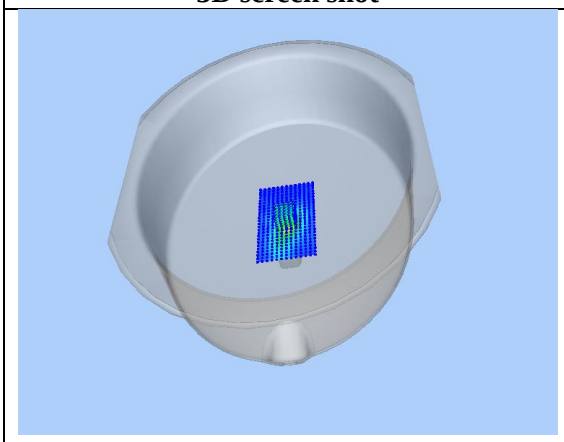
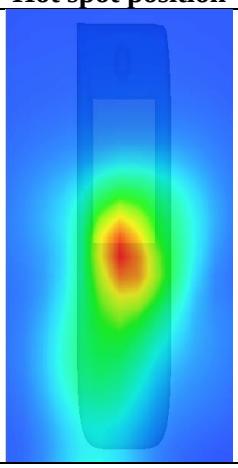
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-7.00
SAR Peak: 2.08 W/kg

SAR 10g (W/Kg)	0.500399
SAR 1g (W/Kg)	1.107321

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.8000	1.1034	0.6735	0.3798	0.2080	0.1144	0.0637



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 02,2022**
LTE Band 5 Low-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

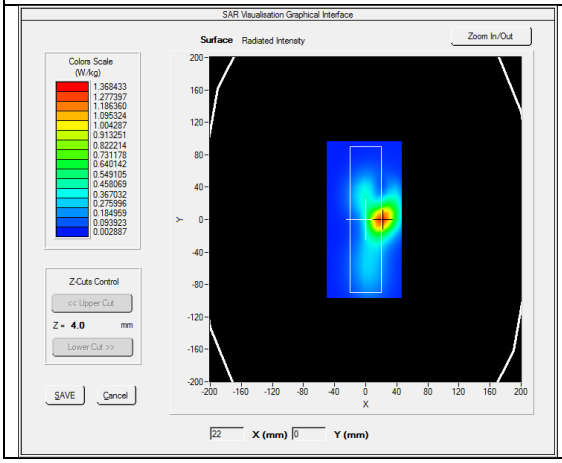
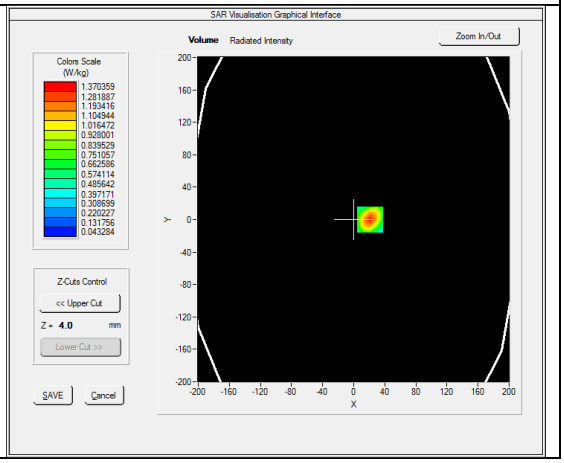
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.42
Frequency:829 MHz; Medium parameters used: f = 835 MHz; σ =0.86mho/m; ε_r =41.82; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

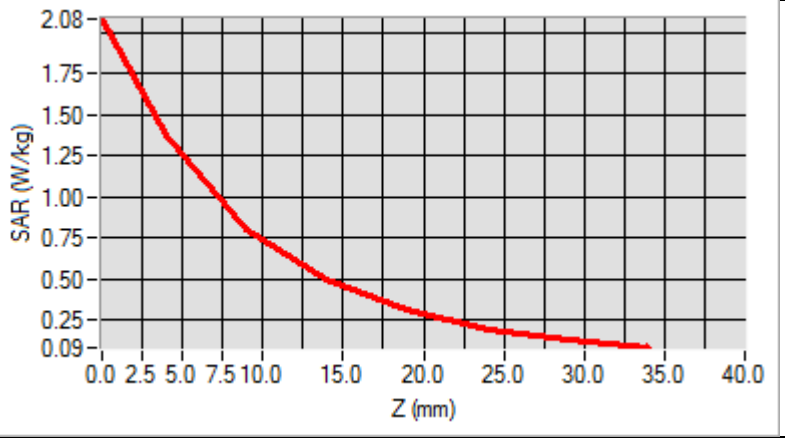
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 5
Channels	Low
Signal	OFDM (Crest factor: 1.0)

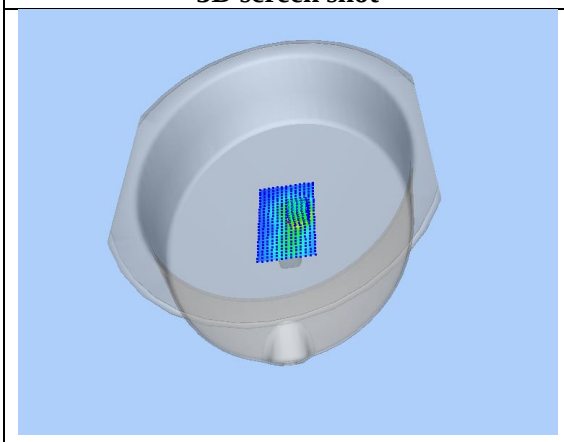
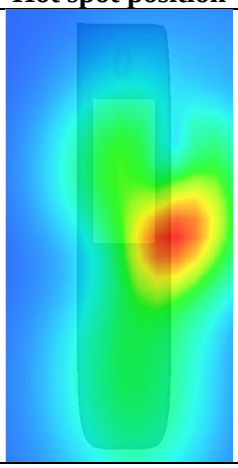
SURFACE SAR	VOLUME SAR
	

Maximum location: X=21.00, Y=0.00
SAR Peak: 2.07 W/kg

SAR 10g (W/Kg)	0.723922
SAR 1g (W/Kg)	1.296779

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0795	1.3704	0.8082	0.4937	0.3105	0.1987	0.1290



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 12,2022**
LTE Band 7 Low -Edge 2(Right)(1RB#0)
DUT: AI POS Terminal; Type: P8

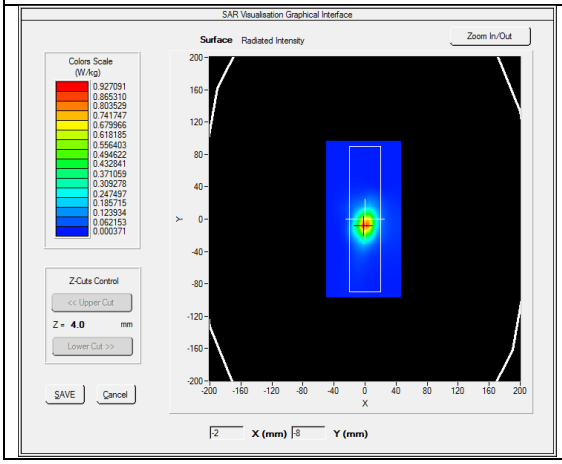
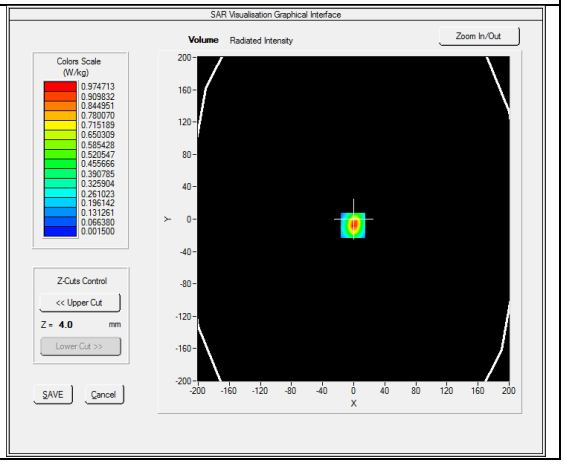
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=1.82
Frequency: 2510 MHz; Medium parameters used: f =2600 MHz; σ =1.83mho/m; ε_r =42.36; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

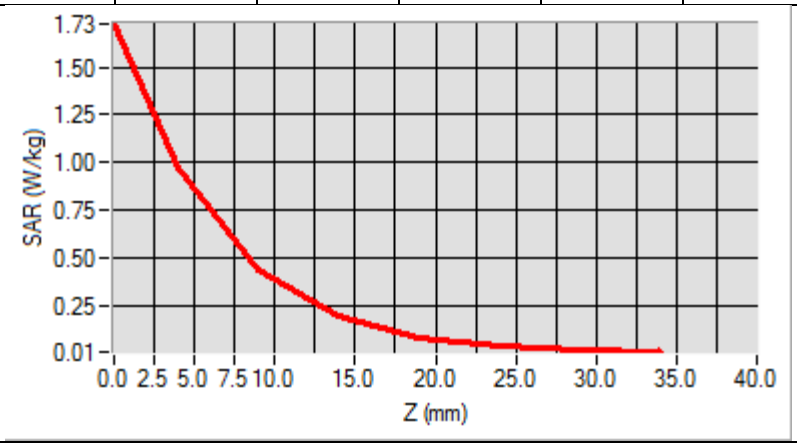
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE BAND 7
Channels	Low
Signal	OFDM (Crest factor: 1.0)

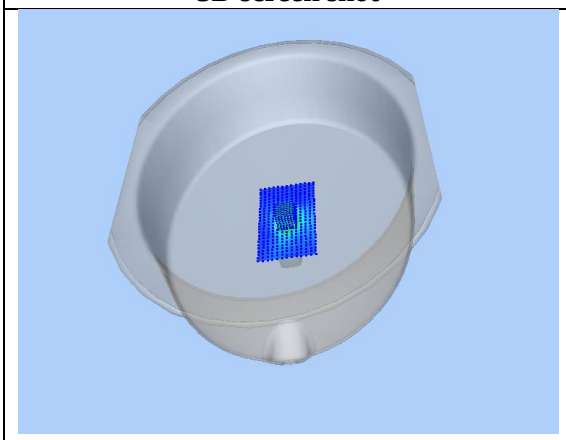
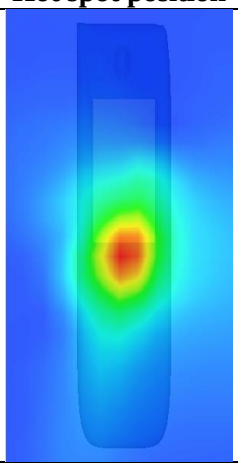
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-8.00
SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.362915
SAR 1g (W/Kg)	0.886182

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7254	0.9747	0.4358	0.1917	0.0826	0.0354	0.0151



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 06,2022**
LTE Band 12 Mid-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

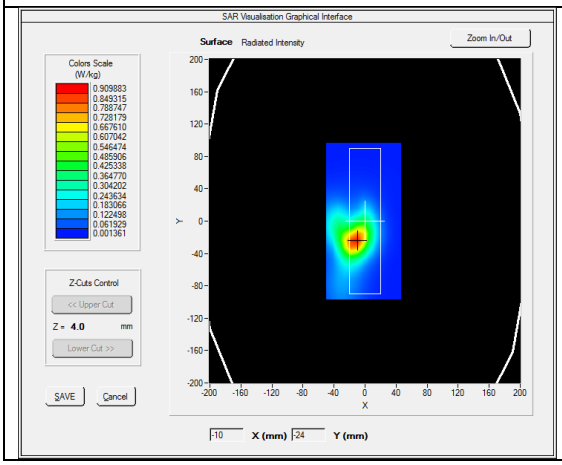
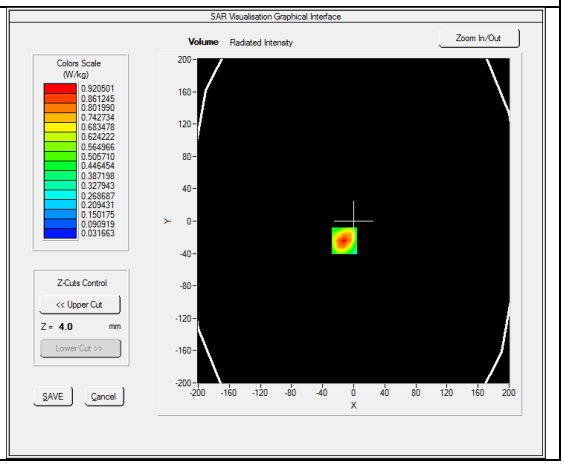
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.39;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ =0.88 mho/m; ε_r =45.30; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

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

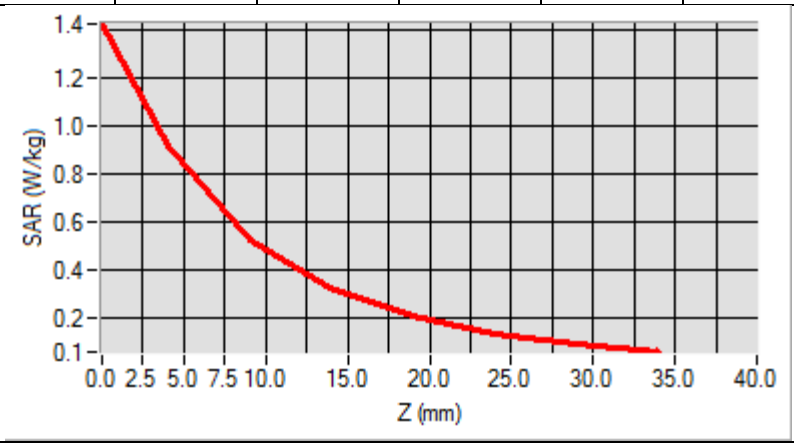
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

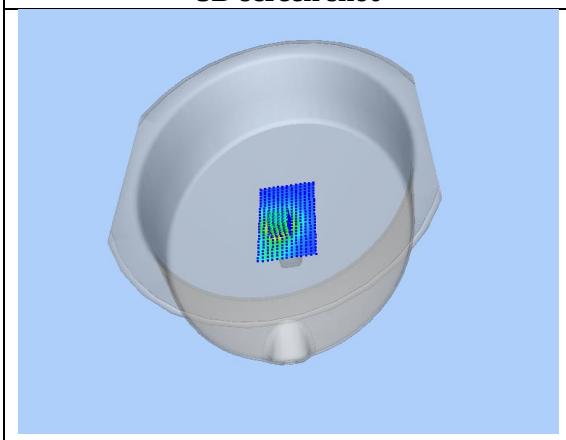
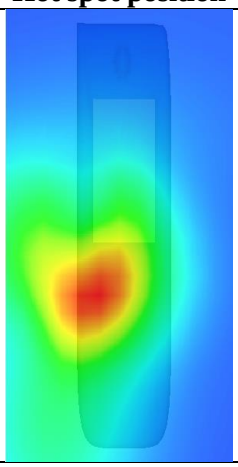
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=-24.00
SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.516933
SAR 1g (W/Kg)	0.925548

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4286	0.9205	0.5296	0.3246	0.2061	0.1339	0.0889



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 06,2022**
LTE Band 17 Low-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

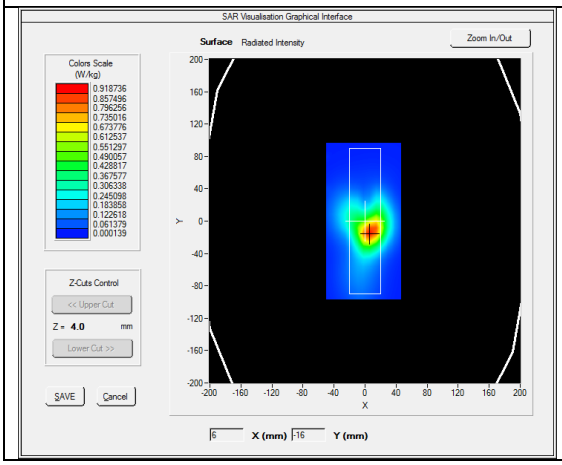
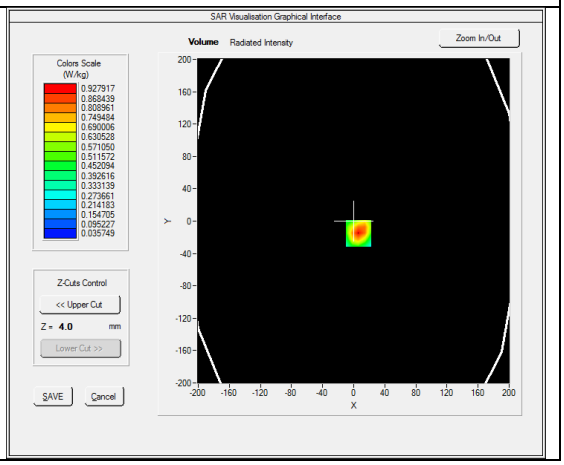
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=1.39;
Frequency: 709 MHz; Medium parameters used: f = 750 MHz; σ =0.85 mho/m; ε_r =45.76; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 17 Low -Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 17 Low -Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

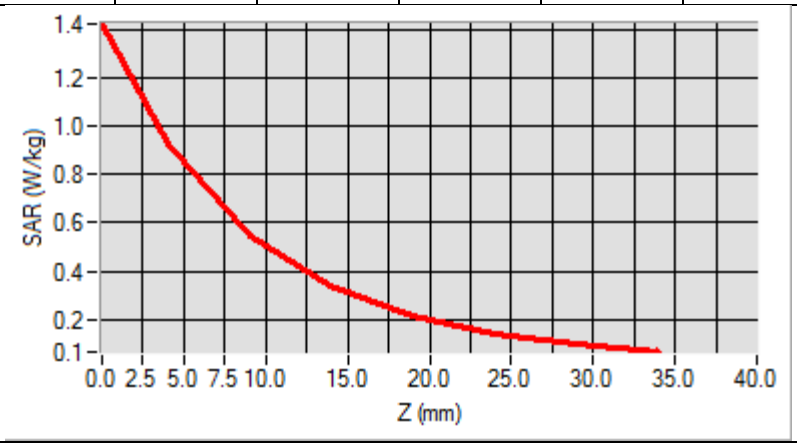
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 17
Channels	Low
Signal	OFDM (Crest factor: 1.0)

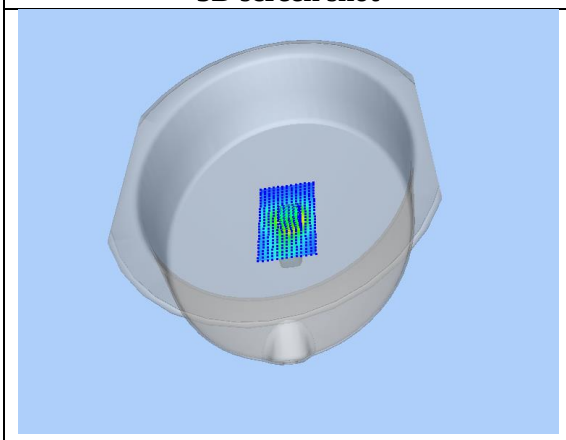
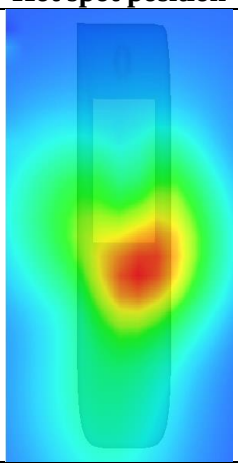
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=-15.00
SAR Peak: 1.43 W/kg

SAR 10g (W/Kg)	0.524068
SAR 1g (W/Kg)	0.933812

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4233	0.9279	0.5435	0.3364	0.2171	0.1427	0.0956



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 02,2022**
LTE Band 19 Mid-Edge 2(Right)(1 RB#0)
DUT: AI POS Terminal; Type: P8

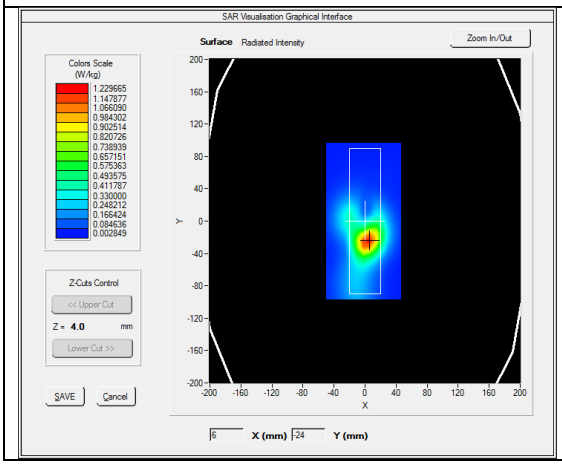
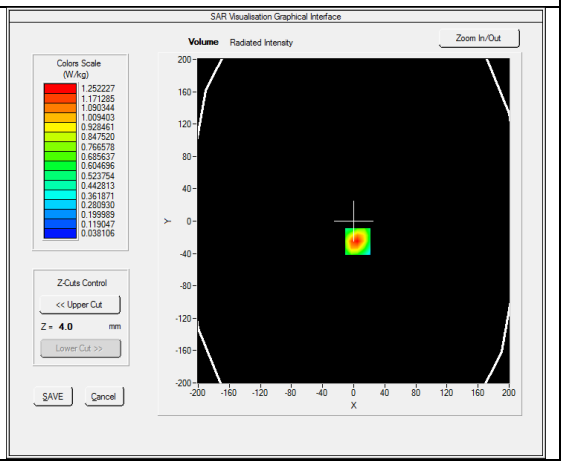
Communication System: LTE; Communication System Band: LTE Band 19; Duty Cycle:1:1; Conv.F=1.42
Frequency:837.5 MHz; Medium parameters used: f = 835 MHz; σ =0.93 mho/m; ε_r =38.24; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 19 Mid-Edge 2(Right)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 19 Mid-Edge 2(Right)/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

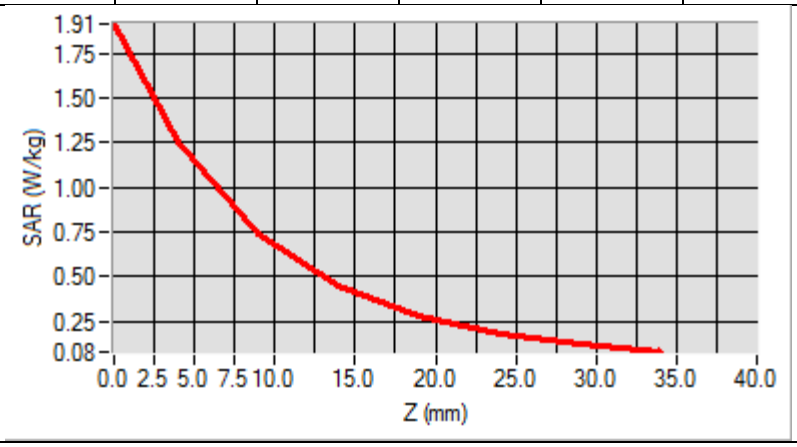
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 2(Right)
Band	LTE Band 19
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-25.00
SAR Peak: 1.93 W/kg

SAR 10g (W/Kg)	0.652990
SAR 1g (W/Kg)	1.151143

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.8626	1.2522	0.7335	0.4476	0.2823	0.1804	0.1172



3D screen shot	Hot spot position