

SAR Test Report

Report No.: AGC10211201103FH01

FCC ID : 2AFD9ULTRA

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Tablet PC

BRAND NAME : KRONO

MODEL NAME : ULTRA

APPLICANT: MOVEON TECHNOLOGY LIMITED

DATE OF ISSUE : Nov. 27,2020

IEEE Std. 1528:2013

STANDARD(S): FCC 47 CFR Part 2§2.1093:2013

IEEE Std C95.1 ™-2005 IEC 62209-1: 2016

REPORT VERSION : V1.0

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

AGC 3



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	3 100	Nov. 27,2020	Valid	Initial Release

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Test Report				
Applicant Name	MOVEON TECHNOLOGY LIMITED			
Applicant Address	world trade plaza-A block #3201-3202 Fuhong Road, Futian, Shenzhen, China			
Manufacturer Name	MOVEON TECHNOLOGY LIMITED			
Manufacturer Address	world trade plaza-A block #3201-3202 Fuhong Road, Futian, Shenzhen, China			
Factory Name	MOVEON TECHNOLOGY LIMITED			
Factory Address	world trade plaza-A block #3201-3202 Fuhong Road, Futian, Shenzhen, China			
Product Designation	Tablet PC			
Brand Name	KRONO			
Model Name	ULTRA			
EUT Voltage	DC3.7V by battery			
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016			
Test Date	Nov. 24,2020 to Nov. 26,2020			
Report Template	AGCRT-US-3G3/SAR (2018-01-01)			

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

	Thea 1thang			
Prepared By		700		
	Thea Huang (Project Engineer)	Nov. 26,2020		
	Angola li			
Reviewed By	FO. 500	2.G		
	Angela Li (Reviewer)	Nov. 27,2020		
	Fowers ce			
Approved By	60			
	Forrest Lei (Authorized Officer)	Nov. 27,2020		

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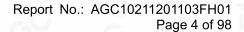




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/Inspection

he test results

1. SUMMARY OF MAXIMUM SAR VALUE

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

	High	SAR Test Limit		
Frequency Band	Head	Body-worn(with 5mm separation)	Hotspot(with 5mm separation)	(W/Kg)
GSM 850	0.117	1.052	1.052	. 10
PCS 1900	0.311	0.922	0.922	0
UMTS Band II	0.265	0.712	0.712	G 2º
UMTS Band V	0.428	1.141	1.141	1.6
WIFI 2.4G	0.153	0.262	0.262	
Simultaneous Reported SAR	-,0	1.403	CO CO	0
SAR Test Result	7 700	PASS		. 60

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

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2. GENERAL INFORMATION

2.1. EUT Description

General Information			
Product Designation	Tablet PC		
Test Model	ULTRA		
Hardware Version	RC_K706		
Software Version	K706.Q0.V9.110.V03.B125H.8850		
Sample number	201116014		
Device Category	Portable		
RF Exposure Environment	Uncontrolled		
Antenna Type	Internal		
GSM and GPRS			
Support Band	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
GPRS Type	Class B		
GPRS 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;		
Antenna Gain	GSM850:-0.17dBi; PCS1900:0.51dBi;		
Max. Average Power	GSM850: 32.07dBm ;PCS1900: 29.94dBm		
WCDMA			
Support Band	□ UMTS FDD Band II □ UMTS FDD Band V □ UMTS FDD Band I □ UMTS FDD Band VIII		
HS Type	HSPA(HSUPA/HSDPA)		
TX Frequency Range	WCDMA FDD Band II: 1850-1910MHz; WCDMA FDD Band V: 824-849MHz		
RX Frequency Range	WCDMA FDD Band II: 1930-1990MHz; WCDMA FDD Band V: 869-894MHz		
Release Version	Rel-6		
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK		
Antenna Gain	Band II: 0.51dBi; Band V:-0.17dBi;		
Max. Average Power	Band II: 22.34dBm; Band V: 22.39dBm		

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EUT Description (Continu	ıe)	
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Bluetooth	
Bluetooth Version	□V2.0 □V2.1 □V2.1+EDR □V3.0 □V3.0+HS □V4.0 □V4.1
Operation Frequency	2402~2480MHz
Type of modulation	⊠GFSK ⊠π/4-DQPSK ⊠8-DPSK
Avg. Burst Power	-0.49dBm
Antenna Gain	0.42dBi
WIFI	
WIFI Specification	□802.11a ⊠802.11b ⊠802.11g ⊠802.11n(20) ⊠802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 13.04dBm,11g:15.24dBm,11n(20):13.18dBm,11n(40):12.90dBm
Antenna Gain	0.42dBi
Accessories	
Battery	Brand name: ZL Model No. : 357390 Voltage and Capacitance: 3.7 V & 3400mAh
Earphone	Brand name: N/A Model No. : N/A
Note:1.CMU200 can measu	re 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	Туре		
Product	□ Production unit	Identical Prototype	

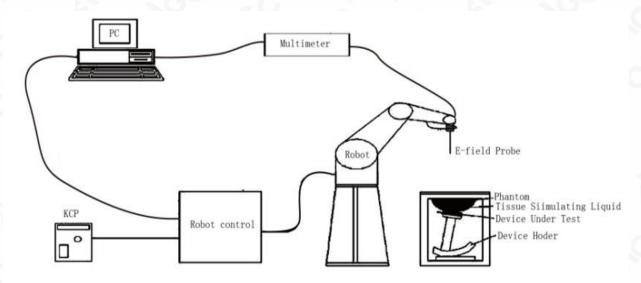
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3. SAR MEASUREMENT SYSTEM

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



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

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

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

Model	SSE5
Manufacture	MVG
Identification No.	SN 24/20 EP336
Frequency	0.7GHz-3GHz Linearity:±0.08dB(0.7GHz-3GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.08dB
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precisin of better 30%.

3.3. Robot

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

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

- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic

construction shields against motor control fields)

☐ 6-axis controller



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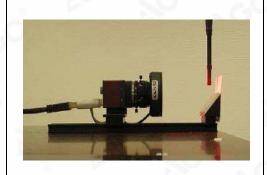


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3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

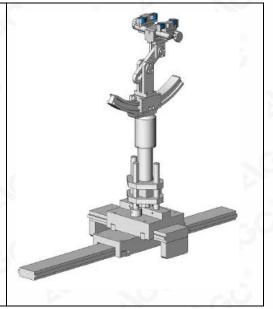


3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity

 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.



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3.6. SAM Twin Phantom

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

□ Left head

☐ Right head

☐ Flat phantom



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

ELLI39 Phantom

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



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

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

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

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

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

Where

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

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

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance 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, 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°
	≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ 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.

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

Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		between subsequent	≤ 1.5·Δz	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.

Step 4: Power Drift Measurement

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

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^{*} When zoom scan is required and the <u>reported</u> 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.



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4.3. RF Exposure Conditions

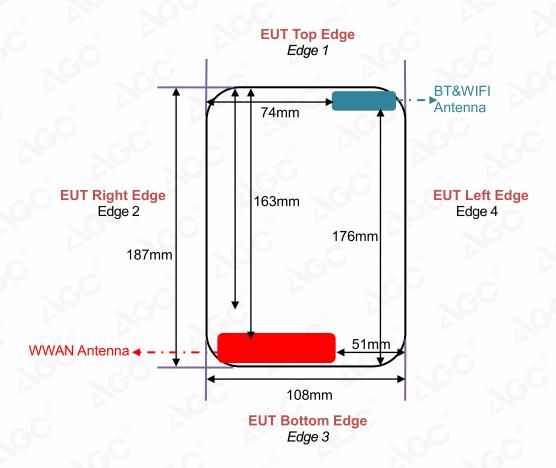
Test Configuration and setting:

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

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

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

Antenna Location: (the back view)



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For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head	5 ⁰ 4.0	0	
Left Touch		Yes	
Left Tilt	0	Yes	-0 -0
Right Touch		Yes	P 10 6
Right Tilt	- 60	Yes	
Body			
Back	<25mm	Yes	
Front	<25mm	Yes	· P NO - NO C
Hotspot	D C		
Back	<25mm	Yes	
Front	<25mm	Yes	C
Edge 1 (Top)	163mm	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)	2mm	Yes	
Edge 3 (Bottom)	6mm	Yes	
Edge 4 (Left)	51mm	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:

For WLAN mode:			
Test Configurations	Antenna to edges/surface	SAR required	Note
Head	0	NO	
Left Touch	- 6	Yes	
Left Tilt	3 20	Yes	
Right Touch	10	Yes	C ±
Right Tilt	0	Yes	
Body		· ·	F -C -C
Back	<25mm	Yes	· P · C
Front	<25mm	Yes	
Hotspot	0		0 -0 -
Back	<25mm	Yes	S CO AC
Front	<25mm	Yes	·
Edge 1 (Top)	2mm	Yes	0
Edge 2 (Right)	74mm	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)	118mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	3mm	Yes	P 10 20

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5. TISSUE SIMULATING LIQUID

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

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97

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	head	d	body		
(MHz)	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	
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	
1800 – 2000	40.0	1.40	40.0	1.40	
2450	39.2	1.80	39.2	1.80	
3000	38.5	2.40	38.5	2.40	

($\epsilon r = relative permittivity$, $\sigma = conductivity$ and $\rho = 1000 \text{ kg/m}3$)

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5.3. Tissue Calibration Result

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

		Tissue Stimulant M	easurement for 835MHz		
	Fr.	Dielectric Para	Tissue		
	(MHz)	εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)	Temp [°C]	Test time
	824.2	43.16	0.85		
Head	826.4	42.38	0.86	60	
	835	41.60	0.88	20.2	Nov.
	836.6	40.82	0.90	20.3	25,2020
	846.6	40.29	0.91		
	848.8	39.81	0.93		

		Tissue Stimulant Me	easurement for 1900MHz		
	Fr.	Dielectric Para	Tissue		
	(MHz)	εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)	Temp [°C]	Test time
Head	1850.2	41.59	1.35	®	
	1880	40.72	1.36	20.4	Nov.
	1900	39.68	1.38	20.4	24,2020
	1909.8	39.21	1.40		

Tissue Stimulant Measurement for 2450MHz						
- CO	Fr.	Dielectric Para	meters (±10%)	Tissue	T4 (5)	
Head	(MHz)	εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)	Temp [°C]	Test time	
0	2437	38.67	1.80	21.4	Nov.	
a.C	2450	39.50	1.83	21.4	26,2020	

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he test results

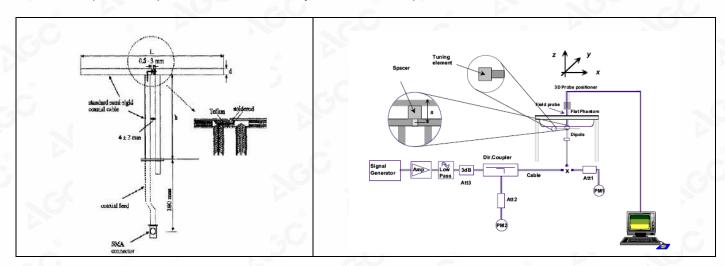
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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

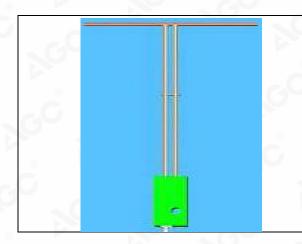


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6.2. SAR System Check 6.2.1. Dipoles



The dipoles used are 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.

Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Per	System Performance Check at 835MHz&1900MHz &2450MHz for Head							
Validation k	(it: SN29/	15 DIP 0G	835-383& SN 46	/11 DIP 1G900-1	87& SN4	46/11 DIP	2G450-189	9
Frequency		get (W/Kg)	Reference Result (± 10%)		Tested Value(W/Kg)		Tissue Temp.	Test time
[MHz]	1g	10g	1g	10g	1g ى	10g	[°C]	2
835	9.85	6.27	8.865-10.835	5.643-6.897	9.41	5.75	20.3	Nov. 25,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	41.04	19.96	20.4	Nov. 24,2020
2450	53.97	24.01	48.573-59.367	21.609-26.411	54.49	23.97	21.4	Nov. 26,2020
835	9.85	6.27	8.865-10.835	5.643-6.897	9.39	5.91	20.3	Nov. 25,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	40.28	19.75	20.4	Nov. 24,2020
2450	53.97	24.01	48.573-59.367	21.609-26.411	51.53	23.22	21.4	Nov. 26,2020

Note:

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

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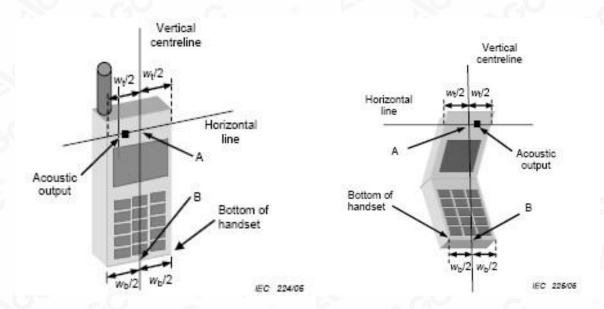
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7. EUT TEST POSITION

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

7.1. Define Two Imaginary Lines on the Handset

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



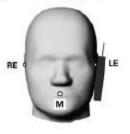
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7.2. Cheek Position

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





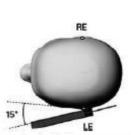


7.3. Tilt Position

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







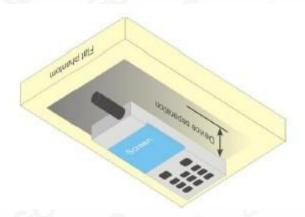
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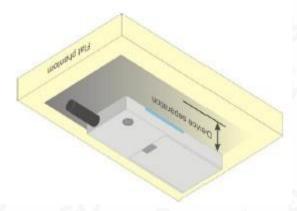


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7.4. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





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8. SAR EXPOSURE LIMITS

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

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

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9. TEST FACILITY

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

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/Inspection The test results

10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	MVG	SN 24/20 EP336	Jun. 24,2020	Jun. 23,2021
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.
Phantom	SATIMO	SN_2316_ELLI39	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	-6	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	Aug. 21,2020	Aug. 20,2021
Multimeter	Keithley 2000	4114939	Sep. 07,2020	Sep. 06,2021
Dipole	SATIMO SID835	SN29/15 DIP 0G835-383	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID1900	SN 46/11 DIP 1G900-187	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID2450	SN 46/11 DIP 2G450-189	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	Aug. 21,2020	Aug. 20,2021
Vector Analyzer	Agilent / E4440A	US41421290	Sep. 06,2020	Sep. 05,2021
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	Oct. 16,2020	Oct. 15,2021
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	June 10,2020	June 09,2021
Attenuator	Mini-circuits / VAT-10+	31405	June 10,2020	June 09,2021
Amplifier	AS0104-55_55	1004793	June 11,2020	June 10,2021
Directional Couple	Werlatone/ C5571-10	SN99463	May 15,2020	May 14,2022
Directional Couple	Werlatone/ C6026-10	SN99482	May 15,2020	May 14,2022
Power Sensor	NRP-Z21	1137.6000.02	Sep. 08,2020	Sep. 07,2021
Power Sensor	NRP-Z23	100323	Feb. 18,2020	Feb. 17,2021
Power Viewer	R&S	V2.3.1.0	N/A	N/A

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

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

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11. MEASUREMENT UNCERTAINTY

M	easurement	SATIMO Ununcertainty f				10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System		(+- /0)	Dist.		(3)		(+-70)	(+-70)	6
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	00
Axial Isotropy	E.2.2	0.105	R	$\sqrt{3}$	√0.5	√0.5	0.043	0.043	α
Hemispherical Isotropy	E.2.2	0.105	R	$\sqrt{3}$	√0.5	√0.5	0.043	0.043	α
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	α
Linearity	E.2.4	0.870	R	$\sqrt{3}$	1	1	0.502	0.502	0
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	0
Modulation response	E2.5	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	α
Readout Electronics	E.2.6	0.021	N		1	1	0.021	0.021	α
Response Time	E.2.7	0.000	R	$\sqrt{3}$	1	1	0.000	0.000	α
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	o
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	o
RF ambient conditions-reflections	E.6.1	3.000	R	√3	1	1	1.732	1.732	X
Probe positioner mechanical tolerance	E.6.2	1.400	R	√3	1	1	0.808	0.808	٥
Probe positioning with respect to phantom shell	E.6.3	1.400	R	√3	_® 1	1	0.808	0.808	0
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	.01	1.328	1.328	0
Test sample Related		G	0				G		
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	o
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	o
Output power variation—SAR drift measurement	E.2.9	5	R	√3	1	1	2.887	2.887	o
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	o
Phantom and tissue parameter	rs		- 0		(6)				
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	01	10	2.309	2.309	o
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	o
Liquid conductivity measurement	E.3.3	3.5	R	$\sqrt{3}$	0.78	0.71	1.126	1.025	() O
Liquid permittivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.332	0.375	o
Liquid permittivity—temperature uncertainty	E.3.4	5	N	1	0.23	0.26	1.150	1.300	V
Combined Standard Uncertainty	0		RSS		60		10.525	10.341	
Expanded Uncertainty (95% Confidence interval)	-,0		K=2				21.051	20.681	6

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Custom		SATIMO Uno				n / 10 arass			
System	(6)	Tol	Prob.		l over 1 gran		1g Ui	10g Ui	
Uncertainty Component	Sec.	(+- %)	Dist.	Div.	Ci (1g)	Ci (10g)	(+-%)	(+-%)	Vİ
Measurement System	0	-a.C	1					9	P
Probe calibration	E.2.1	7	N	U 1	1	1 🔞	7.000	7.000	0
Axial Isotropy	E.2.2	0.105	R	$\sqrt{3}$	1	_10	0.061	0.061	0
Hemispherical Isotropy	E.2.2	0.105	R	$\sqrt{3}$	0	0	0.000	0.000	0
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	1	0.577	0.577	0
Linearity	E.2.4	0.870	R	$\sqrt{3}$	1	1	0.502	0.502	С
System detection limits	E.2.4	3 1.0	R	$\sqrt{3}$	1	1	0.58	0.58	0
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	o
Readout Electronics	E.2.6	0.021	N	□1	1	1	0.021	0.021	o
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	0
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	С
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	С
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	C
Probe positioner mechanical tolerance	E.6.2	1.4	R	√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	C
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	5 1	1	1.33	1.33	c
System validation source		8			(3	-G		0
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1 .	1	1	5.00	5.00	C
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	c
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	c
Phantom and set-up	ω			0		»C		<u> </u>	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	1 8	1	2.31	2.31	C
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	01	0.84	1.90	1.60	C
Liquid conductivity(temperature uncertainty)	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	c
Liquid conductivity(measured)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	ľ
Liquid permittivity(temperature uncertainty)	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	c
Liquid permittivity (measured)	E.3.4	5	N	1	0.23	0.26	1.15	1.30	ı
Combined Standard Uncertainty		11/2	RSS		1		10.458	10.272	
Expanded Uncertainty (95% Confidence interval)	0		K=2				20.916	20.544	

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Sy	stem Check	SATIMO Uncurrence of the same				/ 10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System	a.C		9			10		a.G	
Probe calibration drift	E.2.1.3	0.5	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.105	R	$\sqrt{3}$	0	0 ®	0.00	0.00	00
Hemispherical Isotropy	E.2.2	0.105	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	00
Linearity	E.2.4	0.870	R	$\sqrt{3}$	0	0	0.00	0.00	00
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Readout Electronics	E.2.6	0.021	N		0	0	0.00	0.00	000
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	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	œ
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	α
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)		8		100	_ (
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	000
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	000
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameter	s			(0)		~ 0		- C	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.31	2.31	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	000
Liquid conductivity measurement	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	000
Liquid permittivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	α
Liquid permittivity—temperature uncertainty	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty	100	- C.C	RSS	8			5.562	5.203	
Expanded Uncertainty (95% Confidence interval)	0		K=2		c.C		11.124	10.406	

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12. CONDUCTED POWER MEASUREMENT GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <	1>	-,0	0	10
-0	824.2	32.07	-9	23.07
GSM 850	836.6	31.92	-9	22.92
	848.8	31.92	-9	22.92
ODDC 050	824.2	31.59	-9	22.59
GPRS 850 (1 Slot)	836.6	31.49	-9	22.49
(1 300)	848.8	31.44	-9	22.44
ODDC 050	824.2	29.99	-6	23.99
GPRS 850 (2 Slot)	836.6	30.11	-6	24.11
(2 301)	848.8	30.11	-6	24.11
0000 050	824.2	29.05	-4.26	24.79
GPRS 850 (3 Slot)	836.6	29.16	-4.26	24.90
(3 3101)	848.8	29.28	-4.26	25.02
0000 050	824.2	26.93	-3	23.93
GPRS 850	836.6	27.13	-3	24.13
(4 Slot)	848.8	26.94	-3	23.94

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hg/Inspection

The test results
of the test report.

GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1	>	0	100	- C
	1850.2	29.84	-9	20.84
PCS1900	1880	29.94	-9	20.94
VO ~	1909.8	29.90	-9	20.90
CDDC4000	1850.2	29.49	-9	20.49
GPRS1900 (1 Slot)	1880	29.54	-9	20.54
(1.3101)	1909.8	29.55	-9	20.55
ODD04000	1850.2	27.67	-6	21.67
GPRS1900 (2 Slot)	1880	27.60	-6	21.60
(2 3101)	1909.8	27.70	-6	21.70
00004000	1850.2	26.76	-4.26	22.50
GPRS1900 (3 Slot)	1880	26.67	-4.26	22.41
(3 Slut)	1909.8	26.71	-4.26	22.45
00004000	1850.2	25.59	-3	22.59
GPRS1900	1880	25.41	-3	22.41
(4 Slot)	1909.8	25.76	-3	22.76

Note 1:

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

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

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

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

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

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UMTS BAND HSDPA Setup Configuration:

- ·The EUT was connected to Base Station Agilent E5515C 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

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

Sub-test	βc (Note5)	(Note5) βd		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: \triangle ACK, \triangle NACK and \triangle CQI = 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, \triangle ACK and \triangle NACK = 30/15 with β_{hs} = 30/15 * β_c , and \triangle CQI = 24/15 with β_{hs} = 24/15 * β_c .

Note 3: CM = 1 for $\beta c/\beta d$ =12/15,

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

achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to

ndc = 11/15 a

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[·]The transmitted maximum output power was recorded.



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HSUPA Setup Configuration:

- · The EUT was connected to Base Station Agilent E5515C 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	βс	βd	βd (SF)	βc/βd	βHS (Note 1)	βес	βed (Note 4) (Note 5)	βed (SF)	βed (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	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	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, \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, \triangle ACK,

 Δ NACK and Δ CQI = 5/15 with β_{hs} = 5/15 * β_c

Note 2: CM = 1 for $\beta c/\beta d$ =12/15,

DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the

achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to

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: Bed cannot be set directly; it is set by Absolute Grant Value.

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

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UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
MODMA 4000	1852.4	22.33
WCDMA 1900	1880	22.21
RMC	1907.6	22.18
MCDMA 4000	1852.4	22.02
WCDMA 1900	1880	21.99
AMR	1907.6	21.88
LIODDA	1852.4	21.09
HSDPA	1880	20.75
Subtest 1	1907.6	20.82
Hoppy	1852.4	20.38
HSDPA	1880	19.98
Subtest 2	1907.6	20.64
	1852.4	19.87
HSDPA	1880	20.05
Subtest 3	1907.6	19.92
D	1852.4	20.14
HSDPA	1880	20.47
Subtest 4	1907.6	20.71
NO.T., 20	1852.4	20.49
HSUPA	1880	20.21
Subtest 1	1907.6	20.38
69	1852.4	21.41
HSUPA	1880	21.63
Subtest 2	1907.6	21.49
G	1852.4	21.18
HSUPA	1880	21.23
Subtest 3	1907.6	21.12
1101104	1852.4	21.01
HSUPA	1880	22.25
Subtest 4	1907.6	22.34
LIQUIDA	1852.4	20.99
HSUPA	1880	21.72
Subtest 5	1907.6	21.91

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UMTS BAND V

Mode	Frequency	Avg. Burst Power		
Wiode	(MHz)	(dBm)		
MCDMA 950	826.4	22.39		
WCDMA 850 RMC	836.6	21.92		
RIVIC	846.6	22.06		
MCDMA SEC	826.4	22.03		
WCDMA 850	836.6	21.91		
AMR	846.6	21.81		
LICDDA	826.4	20.95		
HSDPA	836.6	21.05		
Subtest 1	846.6	20.70		
LICDDA	826.4	20.16		
HSDPA	836.6	20.06		
Subtest 2	846.6	20.76		
LICDDA	826.4	20.02		
HSDPA	836.6	19.78		
Subtest 3	846.6	20.12		
LICDDA	826.4	20.14		
HSDPA	836.6	20.48		
Subtest 4	846.6	20.64		
LIGUIDA	826.4	20.48		
HSUPA	836.6	20.30		
Subtest 1	846.6	20.37		
LICUIDA	826.4	21.49		
HSUPA	836.6	21.58		
Subtest 2	846.6	21.36		
LICUIDA	826.4	21.24		
HSUPA	836.6	20.96		
Subtest 3	846.6	21.31		
LICUDA	826.4	21.27		
HSUPA	836.6	22.15		
Subtest 4	846.6	22.35		
LICLIDA	826.4	20.97		
HSUPA	836.6	21.49		
Subtest 5	846.6	21.98		

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/Inspection The test results

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.

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
		01	2412	13.04
802.11b	1	06	2437	12.24
		11	2462	12.29
0 -0	0	01	2412	13.62
802.11g	6	06	2437	15.13
	10 . 0	11	2462	15.24
.6		01	2412	13.02
802.11n(20)	6.5	06	2437	14.73
	100 C	11	2462	13.18
	37 00	03	2422	12.90
802.11n(40)	13.5	06	2437	12.78
		09	2452	11.51

Bluetooth EDR

 Modulation	1 7		Peak Power (dBm)
100	0	2402	-1.15
GFSK	39	2441	-0.49
	78	2480	-0.73
-0	0	2402	-1.63
π /4-DQPSK	39	2441	-0.77
	78	2480	-1.06
0	0	2402	-1.43
8-DPSK	39	2441	-0.73
	78	2480	-1.08

Bluetooth BLE

Modulation	cion Channel Frequency(MHz		Peak Power (dBm)		
P. 10	0	2402	-1.74		
GFSK	19	2440	-1		
	39	2480	-1.28		

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 5mm from the phantom.

13.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- 2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/Kg, testing for repeated SAR measurement is required, that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is \geq 0.8W/Kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/Kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
- 3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- 4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/Kg, SAR testing with a headset connected is not required.
- 5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/kg.
- 6. Per KDB 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.
- 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)]
- 8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result

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0.070

0.480

1.6

1.6

29.16

29.16

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13.1.3. Test Result

SAR WEASURE									
Depth of Liquid	(cm):>15			Relative	Humidity	/ (%): 59.2			
Product: Tablet	PC								
Test Mode: GSN	M850 with GMSK	modul	ation						
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				0		(6)			0
Left Cheek	voice	190	836.6	-0.21	0.351	32.10	31.92	0.366	1.6
Left Tilt	voice	190	836.6	-0.05	0.089	32.10	31.92	0.093	1.6
Right Cheek	voice	190	836.6	0.32	0.112	32.10	31.92	0.117	1.6
Right Tilt	voice	190	836.6	-0.05	0.077	32.10	31.92	0.080	1.6
Body back	voice	190	836.6	-0.22	0.711	32.10	31.92	0.741	1.6
Body front	voice	190	836.6	0.18	0.354	32.10	31.92	0.369	1.6
Body back	GPRS-3 slot	128	824.2	0.32	0.794	29.30	29.05	0.841	1.6
Body back	GPRS-3 slot	190	836.6	0.09	1.019	29.30	29.16	1.052	1.6
Body back	GPRS-3 slot	251	848.8	-0.26	0.977	29.30	29.28	0.982	1.6
Body front	GPRS-3 slot	190	836.6	-0.28	0.539	29.30	29.16	0.557	1.6

Note:

Edge 2(Right)

Edge 3(Bottom)

GPRS-3 slot

GPRS-3 slot

-0.32

0.068

0.465

29.30

29.30

836.6

836.6

190

190

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[·] When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

[•]The test separation for body back, body front and 4 Edges is 5mm of all above table.



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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 57.6

Product: Tablet PC

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	-00	1	- C	(6)			V .0		- C
Left Cheek	voice	661	1880.0	-0.35	0.307	30.00	29.94	0.311	1.6
Left Tilt	voice	661	1880.0	0.19	0.074	30.00	29.94	0.075	1.6
Right Cheek	voice	661	1880.0	-0.26	0.256	30.00	29.94	0.260	<u>1.6</u>
Right Tilt	voice	661	1880.0	-0.42	0.076	30.00	29.94	0.077	1.6
Body back	voice	661	1880.0	0.17	0.601	30.00	29.94	0.609	1.6
Body front	voice	661	1880.0	-0.56	0.452	30.00	29.94	0.458	1.6
	7.0					10			
Body back	GPRS-4 slot	512	1850.2	0.22	0.795	25.80	25.59	0.834	1.6
Body back	GPRS-4 slot	661	1880.0	-0.07	0.843	25.80	25.41	0.922	1.6
Body back	GPRS-4 slot	810	1909.8	-0.26	0.891	25.80	25.76	0.899	1.6
Body front	GPRS-4 slot	661	1880.0	0.52	0.751	25.80	25.41	0.822	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	-0.08	0.532	25.80	25.41	0.582	1.6
Edge 3(Bottom)	GPRS-4 slot	661	1880.0	-0.42	0.101	25.80	25.41	0.110	1.6

Note:

· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

•The test separation for body back, body front and 4 Edges is 5mm of all above table.

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of the test report.

SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 57.6

Product: Tablet PC

Test Mode: WCDMA Band II with QPSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9400	1880	-0.31	0.169	22.40	22.21	0.177	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.18	0.114	22.40	22.21	0.119	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.27	0.254	22.40	22.21	0.265	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.18	0.133	22.40	22.21	0.139	1.6
Body back	RMC 12.2kbps	9400	1880	-0.28	0.652	22.40	22.21	0.681	1.6
Body front	RMC 12.2kbps	9400	1880	0.42	0.682	22.40	22.21	0.712	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.16	0.552	22.40	22.21	0.577	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.08	0.112	22.40	22.21	0.117	1.6

Note:

· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

•The test separation for body back, body front and 4 Edges is 5mm of all above table.

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/Inspection he test results

SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 59.2

Product: Tablet PC

Test Mode: WCDMA Band V with QPSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4183	836.6	-0.28	0.383	22.40	21.92	0.428	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	0.51	0.165	22.40	21.92	0.184	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	-0.27	0.207	22.40	21.92	0.231	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.42	0.113	22.40	21.92	0.126	1.6
Body back	RMC 12.2kbps	4132	826.4	-0.32	1.036	22.40	22.39	1.038	1.6
Body back	RMC 12.2kbps	4183	836.6	-0.06	1.022	22.40	21.92	1.141	1.6
Body back	RMC 12.2kbps	4233	846.6	0.28	1.039	22.40	22.06	1.124	1.6
Body front	RMC 12.2kbps	4183	836.6	-0.72	0.605	22.40	21.92	0.676	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	0.41	0.094	22.40	21.92	0.105	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	0.05	0.355	22.40	21.92	0.396	1.6

Note:

· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

•The test separation for body back, body front and 4 Edges is 5mm of all above table.

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he test results

Depth of Liquid (cm):>15 Relative Humidity (%): 60.8

Product: Tablet PC

Test Mode:802.11b

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	DTS	6	2437	-0.18	0.086	13.04	12.24	0.103	1.6
Left Tilt	DTS	6	2437	0.52	0.095	13.04	12.24	0.114	1.6
Right Cheek	DTS	6	2437	-0.07	0.109	13.04	12.24	0.131	1.6
Right Tilt	DTS	6	2437	-0.42	0.127	13.04	12.24	0.153	1.6
Body back	DTS	6	2437	-0.35	0.218	13.04	12.24	0.262	1.6
Body front	DTS	6	2437	0.26	0.073	13.04	12.24	0.088	1.6
Edge 1 (Top)	DTS	6	2437	-0.28	0.080	13.04	12.24	0.096	1.6
Edge 4(Left)	DTS	6	2437	-0.17	0.051	13.04	12.24	0.061	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- · All of above "DTS" means data transmitters.
- •The test separation for body back, body front and 4 Edges is 5mm of all above table.

Repeated SAR

Product: Tablet PC

Test Mode: GSM850& PCS1900& WCDMA Band V

Test Mode.	001/1000 Q T CO	13000 1	VODIVIA L	and v						
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)
Body back	GPRS-3 slot	190	836.6	-0.21	1.009	-	_		-	1.6
Body back	GPRS-4 slot	810	1909.8	0.05	0.886	<u> </u>	-	5	-60	1.6
Body back	RMC 12.2kbps	4233	846.6	-0.26	1.039	-		1		1.6

The second repeated SAR judge reference

Product: SMART PHONE

Test Mode: PCS1900 with GMSK modulation

Band	Position	Mode	Ch.	Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Body back	GPRS-3 slot	190	836.6	1.052	1.009	1.042616452	<1.2
PCS1900	Body back	GPRS-4 slot	810	1909.8	0.922	0.886	1.040632054	<1.2
WCDMA Band V	Body back	RMC 12.2kbps	4233	846.6	1.141	1.039	1.098171319	<1.2

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset					
NO	Simultaneous state	Head	Body-worn	Hotspot			
1	GSM(voice)+WLAN 2.4GHz (data)	Yes	Yes	(
2	GSM(voice)+Bluetooth(data)	-	Yes	-0			
3	GSM (Data) + WLAN 2.4GHz (data)	- G-	Yes	Yes			
4	GSM (Data) + Bluetooth(data)		Yes	Yes			
5	WCDMA+WLAN 2.4GHz (data)	Yes	Yes	Yes			
6	WCDMA+Bluetooth(data)	_ 6 -	Yes	Yes			

NOTE:

- 1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
- 2. Simultaneous with every transmitter must be the same test position.
- 3. KDB 447498 D01, BT SAR is excluded as below table.
- 4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 5mm for body-worn SAR
- 5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
 - For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is \leq 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)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/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			luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW	Distance (IIIIII)	(vv/kg)
ВТ	Head	0	1.0	0	0.042
ы	Body	0	1	5	0.042

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

DE Exposuro	Test Position	Simultaneous Transmission Scenario			71 ~ CAD	SPLSR
RF Exposure Conditions		GSM 850	WI-Fi DTS Band	Bluetooth	Σ1-g SAR (W/Kg)	(Yes/No)
Head (voice)	Left Touch	0.366	0.103		0.469	No
	Left Tilt	0.093	0.114		0.207	No
	Right Touch	0.117	0.131		0.248	No
	Right Tilt	0.080	0.153		0.233	No
Body-worn (voice)	Door	0.741	0.262		1.003	No
	Rear	0.741		0.042	0.783	No
	J Francis	0.369	0.088		0.457	No
	Front	0.369		0.042	0.411	No
Body-worn (Data)	Rear	1.052		0.042	1.094	No
		1.052	0.262		1.314	No
	Front	0.557		0.042	0.599	No
		0.557	0.088		0.645	No
Body-worn (Hotspot)	Edge 1		0.096		0.096	No
	Edge 2	0.070	40		0.070	No
	Edge 3	0.480	-		0.480	No
	Edge 4		0.061		0.061	No
	Edge 1	V-0		0.042	0.042	No
	Edge 2	0.070		0.042	0.112	No
	Edge 3	0.480		0.042	0.522	No
	Edge 4			0.042	0.042	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

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

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

DE Exposuro	Test Position	Simultaneous Transmission Scenario			51 a 6AD	eni en
RF Exposure Conditions		GSM 1900	WI-Fi DTS Band	Bluetooth	- Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
	Left Touch	0.311	0.103		0.414	No
Head	Left Tilt	0.075	0.114		0.189	No
(voice)	Right Touch	0.260	0.131		0.391	No
	Right Tilt	0.077	0.153		0.230	No
Body-worn (voice)	Door	0.609	0.262		0.871	No
	Rear	0.609		0.042	0.651	No
	Front	0.458	0.088		0.546	No
		0.458		0.042	0.500	No
Body-worn (Data)	Rear	0.922		0.042	0.964	No
		0.922	0.262		1.184	No
	Front	0.822		0.042	0.864	No
		0.822	0.088		0.910	No
Body-worn (Hotspot)	Edge 1		0.096		0.096	No
	Edge 2	0.582	400		0.582	No
	Edge 3	0.110			0.110	No
	Edge 4		0.061		0.061	No
	Edge 1			0.042	0.042	No
	Edge 2	0.582		0.042	0.624	No
	Edge 3	0.110		0.042	0.152	No
	Edge 4	- E		0.042	0.042	No

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[·]According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

[·]SPLSR mean is "The SAR to Peak Location Separation Ratio "



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

PE Evposuro	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
RF Exposure Conditions		WCDMA Band II	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
Head	Left Touch	0.177	0.103		0.280	No
	Left Tilt	0.119	0.114		0.233	No
	Right Touch	0.265	0.131		0.396	No
	Right Tilt	0.139	0.153		0.292	No
Body-worn	Rear	0.681	0.262		0.943	No
	Front	0.712	0.088		0.800	No
	Edge 1	-	0.096		0.096	No
	Edge 2	0.577	®		0.577	No
	Edge 3	0.117	C -		0.117	No
	Edge 4		0.061		0.061	No
	Rear	0.681		0.042	0.723	No
	Front	0.712		0.042	0.754	No
	Edge 1			0.042	0.042	No
	Edge 2	0.577		0.042	0.619	No
	Edge 3	0.117		0.042	0.159	No
	Edge 4			0.042	0.042	No

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[·]According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

[·]SPLSR mean is "The SAR to Peak Location Separation Ratio"



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

PE Evposuro	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
RF Exposure Conditions		WCDMA Band V	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.428	0.103		0.531	No
Lland	Left Tilt	0.184	0.114		0.298	No
Head	Right Touch	0.231	0.131		0.362	No
	Right Tilt	0.126	0.153		0.279	No
Body-worn	Rear	1.141	0.262		1.403	No
	Front	0.676	0.088		0.764	No
	Edge 1		0.096		0.096	No
	Edge 2	0.105	® F		0.105	No
	Edge 3	0.396	C -		0.396	No
	Edge 4		0.061		0.061	No
	Rear	1.141		0.042	1.183	No
	Front	0.676		0.042	0.718	No
	Edge 1			0.042	0.042	No
	Edge 2	0.105		0.042	0.147	No
	Edge 3	0.396		0.042	0.438	No
	Edge 4			0.042	0.042	No

Note:

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[·]According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

[·]SPLSR mean is "The SAR to Peak Location Separation Ratio"



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The test results

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Nov. 25,2020

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=5.26 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.88$ mho/m; $\epsilon r = 41.60$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):20.6, Liquid temperature (°C): 20.3

SATIMO Configuration

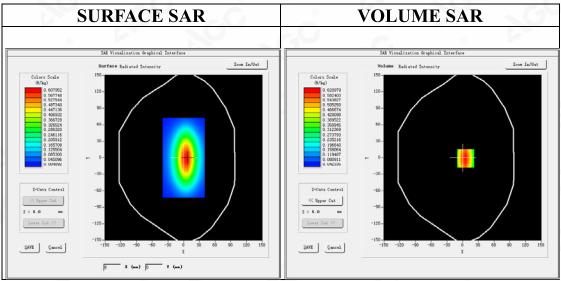
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

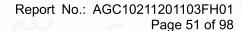
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



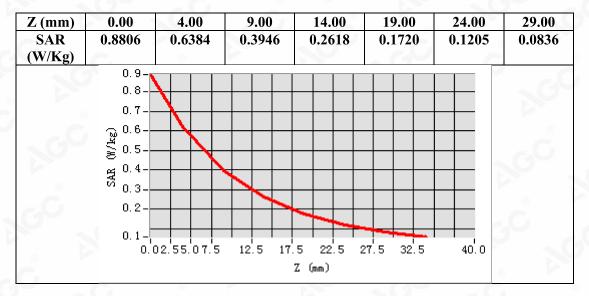
Maximum location: X=6.00, Y=-1.00 SAR Peak: 0.88 W/kg

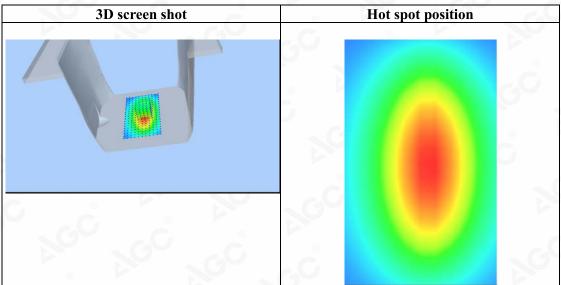
SAR 10g (W/Kg)	0.362761
SAR 1g (W/Kg)	0.593873

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The test results

Test Laboratory: AGC Lab 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=4.72 Frequency: 1900 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.38$ mho/m; $\epsilon r = 39.68$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):20.6, Liquid temperature (°C): 20.4

SATIMO Configuration:

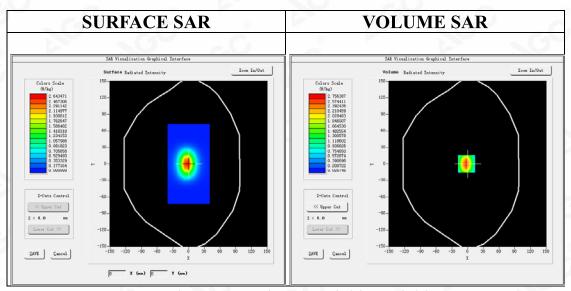
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

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

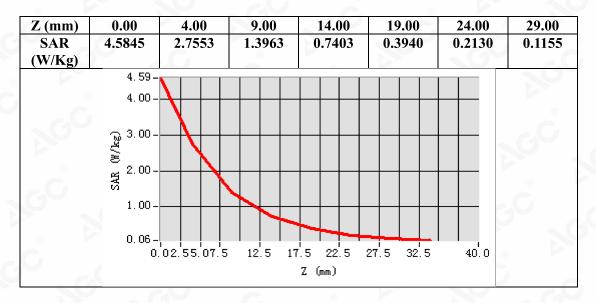


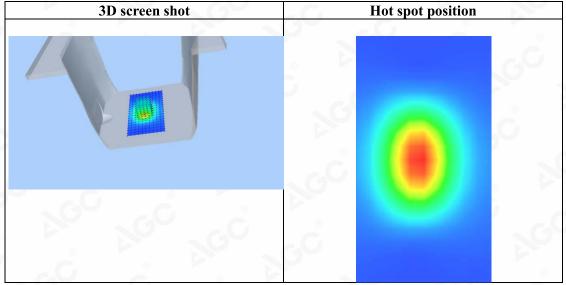
Maximum location: X=-2.00, Y=0.00 SAR Peak: 4.54 W/kg

SAR 10g (W/Kg)	1.259225	
SAR 1g (W/Kg)	2.589176	

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The test results

Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.23 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.83$ mho/m; ϵ r = 39.50; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$ C):21.7, Liquid temperature ($^{\circ}$ C): 21.4

SATIMO Configuration

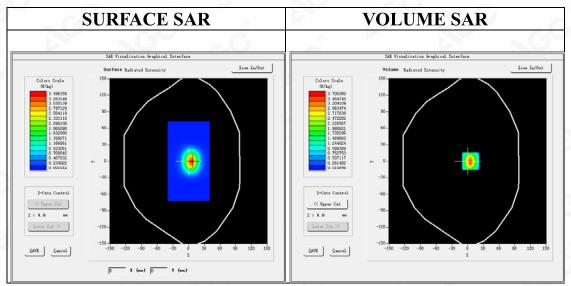
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4 02 35

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



Maximum location: X=6.00, Y=0.00 SAR Peak: 6.40 W/kg

SAR 10g (W/Kg)	1.512695	
SAR 1g (W/Kg)	3.437963	

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