

SAR Test Report

Report No.: AGC00564190601FH01

FCC ID 2AFD9NET_MAX

Original Equipment APPLICATION PURPOSE

PRODUCT DESIGNATION **TABLET**

KRONO BRAND NAME

MODEL NAME NET_MAX

APPLICANT MOVEON TECHNOLOGY LIMITED

DATE OF ISSUE Aug. 28,2019

IEEE Std. 1528:2013

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

IEEE C95.1TM:2005

REPORT VERSION V1.1

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9 160	Aug. 17,2019	Invalid	Initial Release
V1.1	1 st	Aug. 28,2019	Valid	Added the system validation on page 21.





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Test Report				
Applicant Name	MOVEON TECHNOLOGY LIMITED			
Applicant Address World Trade Plaza-A block#3201-3202 Fuhong Road,Futian				
Manufacturer Name	MOVEON TECHNOLOGY LIMITED			
Manufacturer Address	World Trade Plaza-A block#3201-3202 Fuhong Road,Futian			
Factory Name	MOVEON TECHNOLOGY LIMITED			
Factory Address	World Trade Plaza-A block#3201-3202 Fuhong Road,Futian			
Product Designation	TABLET			
Brand Name	KRONO			
Model Name	NET_MAX			
Different Description	N/A			
EUT Voltage	DC3.7V by battery			
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE C95.1TM:2005			
Test Date	July 26,2019 to Aug. 05,2019			
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.

Front Thou Tested By Eric Zhou(Zhou Yongkang) Aug. 05,2019 Jack bri Checked By Aug. 28,2019 Jack Gui (Gui Jiafeng) Forest cei Authorized By Forrest Lei(Lei Yonggang) Aug. 28,2019 **Authorized Officer**



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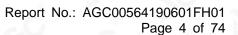




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1. SUMMARY OF MAXIMUM SAR VALUE

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

Fraguency Bond	Highest Reported 1g-SAR(W/Kg)			
Frequency Band	Body-worn (with 0mm separation)	(W/Kg)		
GSM 850	0.213	10		
PCS 1900	1.214			
UMTS Band II	1.018			
UMTS Band V	0.055	1.6		
WIFI 2.4G	0.184	- CO		
Simultaneous Reported SAR	1.394			
SAR Test Result	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 47 CFR Part 2§2.1093:2013; 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 616217 D04 SAR for laptop and tablets v01r02





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2. GENERAL INFORMATION

2.1. EUT Description

General Information				
Product Designation	TABLET			
Test Model	NET_MAX			
Hardware Version	RC_K960			
Software Version	K706.O1.V10.8.RC-V04.6276			
Device Category	Portable			
RF Exposure Environment	Uncontrolled			
Antenna Type	Internal			
GSM and GPRS				
Support Band	☑GSM 850 ☑PCS 1900 ☑GSM 900 ☑DCS 1800			
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	GSM850:1.45dBi; PCS1900: 1.58dBi;			
Max. Average Power	GSM850: 32.49dBm ;PCS1900: 31.60dBm			
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: 820-850MHz			
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	WCDMA850: 1.39dBi; WCDMA1900:1.1.40dBi;			
Max. Average Power	Band II: 23.83dBm; Band V: 23.95dBm			





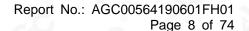
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EUT Description (Continue)

Bluetooth	No CO CO			
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	BR/EDR : -7.173dBm; BLE : -21.930dBm			
Antenna Gain	1.0dBi			
WIFI				
WIFI Specification	□802.11a ⊠802.11b ⊠802.11g ⊠802.11n(20) ⊠802.11n(40)			
Operation Frequency	2412~2462MHz			
Avg. Burst Power	11b:10.69dBm,11g:10.95dBm,11n(20):8.73dBm,11n(40):8.45dBm			
Antenna Gain	1.0dBi			
Accessories				
Battery	Brand name: N/A Model No.: 30105130 Voltage and Capacitance: 3.7 V & 4500mAh			
Earphone	Brand name: N/A Model No.: N/A			
	sure the average power and Peak power at the same time or testing is end product.			

Product	Type	
Product	☑ Production unit	☐ Identical Prototype

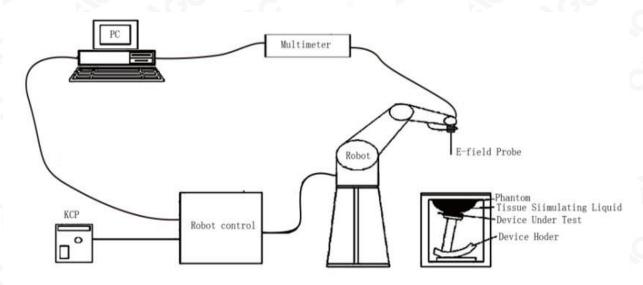






3. SAR MEASUREMENT SYSTEM

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:

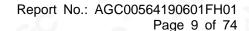
- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- · The Keithley multimeter 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.



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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 22/12 EP159		
Frequency	0.45GHz-3GHz Linearity:±0.11dB(0.45GHz-3GHz)		
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.11dB		
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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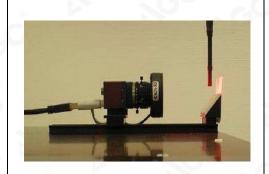


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3.4. Video Positioning System

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.

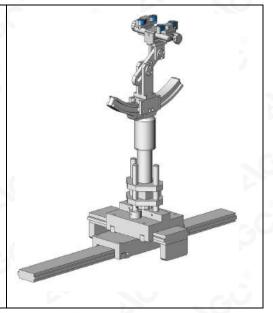


3.5. Device Holder

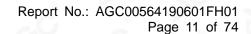
The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear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

 $\epsilon r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.









3.6. ELLI39 Phantom

The Flat phantom is a fiberglass shell phantom 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;
ch 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 \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g 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	$\begin{array}{c} \Delta z_{Zoom}(1)\text{: between} \\ 1^{st} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{Zoom}(n \ge 1)\text{:} \\ \text{between subsequent} \\ \text{points} \end{array}$	1 st two points closest	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		≤ 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.



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.





4.3. RF Exposure Conditions

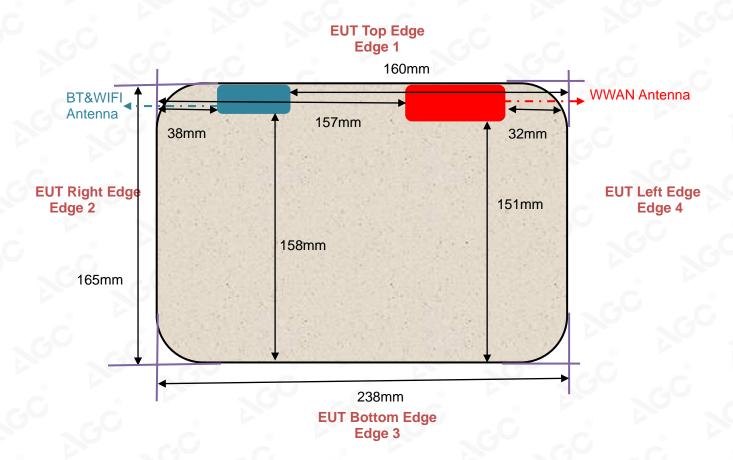
Test Configuration and setting:

The EUT is a model of GSM/WCDMA Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, 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	30 -G	0	
Left Touch		Yes	
Left Tilt	0	Yes	-0 -0 -0
Right Touch		Yes	
Right Tilt	- 60	Yes	
Body		6	
Back	<25mm	Yes	C C
Front	<25mm	Yes	
Hotspot	10		
Back	<25mm	Yes	
Front	<25mm	Yes	
Edge 1 (Top)	0mm	Yes	
Edge 2 (Right)	157mm	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)	151mm	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)	32mm	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 WLAIN mode:			
Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	
Left Tilt	(i)	Yes	
Right Touch	0	Yes	20 2
Right Tilt	a.C	Yes	
Body		20	· · · · · · · · · · · · · · · · · · ·
Back	<25mm	Yes	~C ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Front	<25mm	Yes	
Hotspot	- 60	0	
Back	<25mm	Yes	O
Front	<25mm	Yes	30 c o V
Edge 1 (Top)	0mm	Yes	-G
Edge 2 (Right)	38mm	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)	158mm	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)	160mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR



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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 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
835 Body	54.00	1	0.0	15	0.0	30
1900 Body	70	1	0.0	9	0.0	20
2450 Body	70	1	0.0	9	0.0	20

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

arget Frequency	he	ad	b	ody		
(MHz)	εr	σ (S/m)	εr	σ (S/m)		
300	45.3	0.87	58.2	0.92		
450	43.5	0.87	56.7	0.94		
835	41.5	0.90	55.2	0.97		
900	41.5	0.97	55.0	1.05		
915	41.5	1.01	55.0	1.06		
1450	40.5	1.20	54.0	1.30		
1610	40.3	1.29	53.8	1.40		
1800 – 2000	40.0	1.40	53.3	1.52		
2450	39.2	1.80	52.7	1.95		
3000	38.5	2.40	52.0	2.73		

($\epsilon r = relative permittivity$, $\sigma = conductivity and <math>\rho = 1000 \text{ kg/m3}$)



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5.3. Tissue Calibration Result

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

		Tissue Stimulant M	easurement for 835MHz		
	Fr.	Dielectric Par	rameters (±5%)	Tissue	J C.
8	(MHz)	εr 55.20(52.44-57-96)	δ[s/m]0.97(0.9215-1.0185)	Temp [oC]	Test time
GO.	824.2	54.84	0.93	0	1
Body	826.4	54.59	0.94	r.C	8
8	835	54.26	0.95	20.9	Aug. 04,2019
C	836.6	54.03	0.96	20.9	Aug. 04,2019
	846.6	53.91	0.97		
	848.8	53.75	0.98		- C

		Tissue Stimulant Me	easurement for 1900MHz		
	Fr.	Dielectric Par	ameters (±5%)	Tissue	<u> </u>
0	(MHz)	er53.30(50.635-55.965)	δ[s/m]1.52(1.444-1.596)	Temp [oC]	Test time
r.C	1850.2	53.15	1.46		
Body	1852.4	52.78	1.47	- 0	
200,	1880	52.52	1.48	24.6	huly 26 2010
	1900	52.36	1.49	21.6	July 26,2019
9	1907.6	52.09	1.50		
	1909.8	51.98	1.51	C	0

		Tissue Stimulant M	easurement for 2450MHz		
20	Fr.	Dielectric Pa	rameters (±5%)	Tissue	
	(MHz)	er52.7(50.065-55.335)	δ[s/m]1.95(1.8525-2.0475)	Temp [°C]	Test time
Body	2412	54.26	1.92	10	2.0
G	2437	53.95	1.93	21.4	Aug 05 2010
	2450	53.67	1.94	21.4	Aug. 05,2019
	2462	53.43	1.95	Z.C	0



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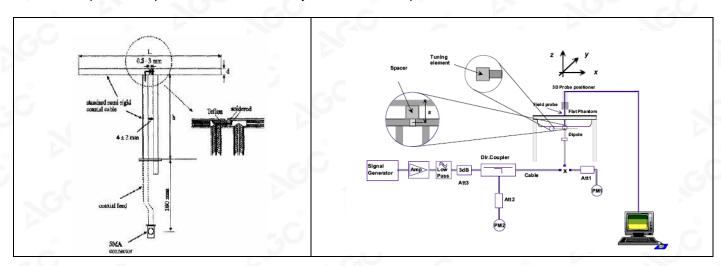
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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



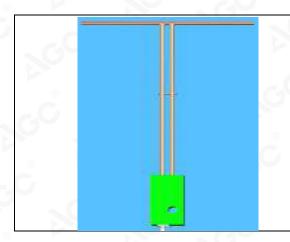


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6.2. SAR System Check 6.2.1. Dipoles



The dipoles 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 835 MHz &1900MHz & 2450MHz for Body										
Frequency		get W/Kg)		ce Result 0%)		sted (W/Kg)	Tissue Temp.	Test time			
[MHz]	1g	10g	1g	10g 🏻	1g	10g	[°C]	0			
835	9.95	6.50	8.955-10.945	5.85-7.15	9.81	6.47	20.9	Aug. 04,2019			
1900	40.82	20.99	36.738-44.902	18.891-23.089	41.25	21.30	21.6	July 26,2019			
2450	54.45	24.16	49.005-59.895	21.744-26.576	51.57	23.29	21.4	Aug. 05,2019			

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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6.2.3. SAR System Validation

							CV	V validation	1	Mo	od. valida	ition
	Test Data	Probe S/N	Tested Freq. (MHz)	Tissue Type	Cond.	Perm	Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	Peak to average power ratio
9	03/02/2019	SN 22/12 EP159	835	body	0.97	56.12	PASS	PASS	PASS	QPSK	N/A	PASS
100	03/04/2019	SN 22/12 EP159	1900	body	1.54	51.50	PASS	PASS	PASS	GFSK	PASS	N/A
	03/07/2019	SN 22/12 EP159	2450	body	1.91	52.45	PASS	PASS	PASS	OFDM	N/A	PASS





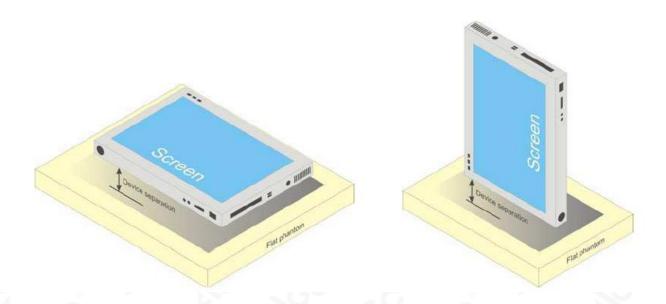
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7. EUT TEST POSITION

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

7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface (back, front and 4edges) and the flat phantom to 0mm.





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8. SAR EXPOSURE LIMITS

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

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



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9. TEST FACILITY

-	Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
ı	_ocation	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Design	nation Number	CN1259
_	C Test Firm ration Number	975832
A2L	A Cert. No.	5054.02
De	escription	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA





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10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	MVG	SN 22/12 EP159	Aug. 08,2018	Aug. 07,2019
Phantom	SATIMO	ELLI39	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO		Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	Feb. 27,2019	Feb. 26,2020
Multimeter	Keithley 2000	4114939	Sep. 20,2018	Sep. 19,2019
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	SN46/11 DIP 2G450-189	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	Nov. 01,2018	Oct. 31,2019
Vector Analyzer	Agilent / E4440A	US41421290	Feb. 27,2019	Feb. 26,2020
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	Nov. 01,2018	Oct. 31,2019
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F 1	June 11,2019	June 10, 2020
Attenuator	Mini-circuits / VAT-10+	31405	June 11,2019	June 10, 2020
Amplifier	EM30180	SN060552	Feb. 27,2019	Feb. 26,2020
Directional Couple	Werlatone/ C5571-10	SN99463	June 12,2019	June 11,2020
Directional Couple	Werlatone/ C6026-10	SN99482	June 12,2019	June 11,2020
Power Sensor	NRP-Z21	1137.6000.02	Sep. 20,2018	Sep. 19,2019
Power Sensor	NRP-Z23	US38261498	Feb. 19,2019	Feb. 18,2020
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

11. WEASUREMENT									
Me	asurement u	ncertainty fo	or Dipole a	averaged o	ver 1 gram	/ 10 gram			
a	b	С	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System						(0)			
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	00
Axial Isotropy	E.2.2	0.579	R	$\sqrt{3}$	√0.5	√0.5	0.24	0.24	ox.
Hemispherical Isotropy	E.2.2	0.813	R	$\sqrt{3}$	√0.5	√0.5	0.33	0.33	o
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	o
Linearity	E.2.4	1.26	R	$\sqrt{3}$	1	1	0.73	0.73	α
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	o
Modulation response	E2.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	α
Readout Electronics	E.2.6	0.021	N	1 0	1	1	0.021	0.021	\propto
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0	0	ox.
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	ox
RF ambient conditions-Noise	E.6.1	3.0	R		1	1	1.73	1.73	×
RF ambient	□.0.1	3.0	K	√3		-(0	1.73	1.73	- 4
conditions-reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	o
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	1	0.81	0.81	o
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	0
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	5 1	1	1.33	1.33	٥
Test sample Related	>	6							
Test sample positioning	E.4.2	2.6	N	1	1	1	2.6	2.6	O
Device holder uncertainty	E.4.1	3	N	1	1	1	3	3	0
Output power variation—SAR drift measurement	E.2.9	5	R	√3	1	1	2.89	2.89	0
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	0
Phantom and tissue parameter	S								
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.31	2.31	٥
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	٥
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	0
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	α
Combined Standard Uncertainty	10°		RSS	8		N.C.	9.807	9.608	
Expanded Uncertainty (95% Confidence interval)		10	K=2	0	-0	©	19.614	19.216	



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System	Validation ι	uncertainty	for Dipole	averaged	over 1 gra	m / 10 gram			
a	b	С	d	e f(d,k)	f	g	h cxf/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	V
Measurement System		-	1		· ·				6
Probe calibration	E.2.1	5.831	Ν	1	1	1	5.83	5.83	00
Axial Isotropy	E.2.2	0.579	R	$\sqrt{3}$	9 1	10	0.33	0.33	œ
Hemispherical Isotropy	E.2.2	0.813	R	√3	0	0	0.00	0.00	o
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	o
Linearity	E.2.4	1.26	R	$\sqrt{3}$	1 1	1	0.73	0.73	o
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	ox.
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	ox.
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	o
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	α
RF ambient conditions-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	o
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	o
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	10	0.81	0.81	o
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	o
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	1	C ¹	1.33	1.33	œ
System check source (dipole)			(0)			7	60	6	3)
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	0
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	0
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	0
Phantom and tissue parameters	0	-C	1	<u>®</u>					
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	√3	1	1	2.31	2.31	0
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	0
Liquid conductivity measurement	E.3.3	4.0	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5.0	N	1	0.23	0.26	1.15	1.30	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	0
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	0
Combined Standard Uncertainty			RSS	GU			9.735	9.534	
Expanded Uncertainty (95% Confidence interval)			K=2		FO		19.470	19.069	



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Sys	stem check ui	ncertainty fo	or Dipole a	veraged o	ver 1 gram	/ 10 gram.			
a	b	c Tol	d Prob.	e f(d,k)	f	g	h cxf/e 1g Ui	i cxg/e 10g Ui	k
Uncertainty Component	Sec.	(+- %)	Dist.	Div.	Ci (1g)	Ci (10g)	(+-%)	(+-%)	٧
Measurement System	NO	- 60	1		©			9	
Probe calibration drift	E.2.1.3	0.5	N	1	1	1	0.50	0.50	o
Axial Isotropy	E.2.2	0.579	R	$\sqrt{3}$	0	0	0.00	0.00	0
Hemispherical Isotropy	E.2.2	0.813	R	$\sqrt{3}$	0	0	0.00	0.00	0
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	0
Linearity	E.2.4	1.26	R	$\sqrt{3}$	0	0	0.00	0.00	0
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	0
Modulation response	E2.5	3.0	R	√3	0	0	0.00	0.00	0
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	0
Response Time	E.2.7	0	R	√3	0	0	0.00	0.00	0
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	0
RF ambient conditions-Noise	E.6.1	3.0	R	√3	0	0	0.00	0.00	0
RF ambient conditions-reflections	E.6.1	3.0	R	√3	0	0	0.00	0.00	0
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	10	0.81	0.81	c
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	0
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	0	0	0.00	0.00	0
System check source (dipole)	- (0				0		
Deviation of experimental dipoles	E.6.4	2	Z	10	1	1	2	2	0
Input power and SAR drift measurement	8,6.6.4	5	R	√3	1	1	2.89	2.89	0
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	0
Phantom and tissue parameter	s	- GV		C					
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	10	2.31	2.31	0
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	c
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	١
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	c
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	0
Combined Standard Uncertainty			RSS		a.C		5.564	5.205	
Expanded Uncertainty (95% Confidence interval)	a.G	@	K=2			GU	11.128	10.410	



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12. CONDUCTED POWER MEASUREMENT

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <	>	-C 2°		100
C.	824.2	32.28	-9	23.28
GSM 850	836.6	32.49	-9	23.49
	848.8	32.41	-9	23.41
CDDC 050	824.2	31.49	-9	22.49
GPRS 850 (1 Slot)	836.6	31.55	-9	22.55
(1 3101)	848.8	31.41	-9	22.41
0000 050	824.2	27.25	-6	21.25
GPRS 850 (2 Slot)	836.6	27.74	-6	21.74
(2 3101)	848.8	27.46	-6	21.46
	824.2	25.33	-4.26	21.07
GPRS 850	836.6	25.28	-4.26	21.02
(3 Slot)	848.8	25.26	-4.26	21.00
	824.2	25.61	-3	22.61
GPRS 850	836.6	25.37	-3	22.37
(4 Slot)	848.8	25.44	-3	22.44
Maximum Power <2	2>	-0		
-,0 -,"	824.2	32.14	-9	23.14
GSM 850	836.6	32.37	-9	23.37
	848.8	32.28	-9	23.28
0000 050	824.2	31.35	-9	22.35
GPRS 850 (1 Slot)	836.6	31.43	-9	22.43
(1 3101)	848.8	31.29	-9	22.29
0000 050	824.2	27.11	-6	21.11
GPRS 850 (2 Slot)	836.6	27.62	-6	21.62
(2 3101)	848.8	27.34	-6	21.34
ODDC 252	824.2	25.23	-4.26	20.97
GPRS 850 (3 Slot)	836.6	25.26	-4.26	21.00
(3 3101)	848.8	25.25	-4.26	20.99
1000000	824.2	25.49	-3	22.49
GPRS 850	836.6	25.25	-3	22.25
(4 Slot)	848.8	25.31	-3	22.31





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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1	>	®	100	-0
	1850.2	31.54	-9	22.54
PCS1900	1880	31.37	-9	22.37
GU F	1909.8	31.60	-9	22.60
GPRS1900	1850.2	30.62	-9	21.62
(1 Slot)	1880	30.40	-9	21.40
(1 Slot)	1909.8	30.62	-9	21.62
CDDC4000	1850.2	28.16	-6	22.16
GPRS1900 (2 Slot)	1880	28.21	-6	22.21
(2 3101)	1909.8	28.27	-6	22.27
ODDC4000	1850.2	25.55	-4.26	21.29
GPRS1900 (3 Slot)	1880	25.19	-4.26	20.93
(3 5101)	1909.8	25.34	-4.26	21.08
00001000	1850.2	25.40	-3	22.40
GPRS1900 (4 Slot)	1880	25.28	-3	22.28
(4 5101)	1909.8	25.22	-3	22.22
/laximum Power <2	2>			60 6
®	1850.2	31.43	-9	22.43
PCS1900	1880	31.25	-9	22.25
	1909.8	31.48	-9	22.48
00004000	1850.2	30.54	-9	21.54
GPRS1900 (1 Slot)	1880	30.27	-9	21.27
(1 3101)	1909.8	30.56	-9	21.56
00004000	1850.2	28.04	-6	22.04
GPRS1900 (2 Slot)	1880	28.09	-6	22.09
(2 3101)	1909.8	28.15	-6	22.15
00004000	1850.2	25.41	-4.26	21.15
GPRS1900 (3 Slot)	1880	25.07	-4.26	20.81
	1909.8	25.23	-4.26	20.97
ODD0::555	1850.2	25.26	-3	22.26
GPRS1900	1880	25.14	-3	22.14
(4 Slot)	1909.8	25.12	-3	22.12

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(β c and β d) parameters set according to each
- (2) Set RMC 12.2Kbps+HSDPA mode.
- (3) Set Cell Power=-86dBm
- (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
- (5) Select HSDPA Uplink Parameters
- (6) Set Delta ACK, Delta NACK and Delta CQI=8
- (7) Set Ack Nack Repetition Factor to 3
- (8) Set CQI Feedback Cycle (k) to 4ms
- (9) Set CQI Repetition Factor to 2
- (10) Power Ctrl Mode=All Up bits
- •The transmitted maximum output power was recorded.

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

	Sub-test	βc (Note5)	βd	βd (SF)	β с /βd	βHS (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
P	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
9	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 $\beta_{hs} = 30/15 * \beta_c$.

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

5.13.1AA, \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/ c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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



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HSUPA Setup Configuration:

- · The EUT was connected to Base Station Agilent 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	βς	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 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	a- (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, \triangle NACK and \triangle CQI = 5/15 with β_{hs} = 5/15 * β_c .

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

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

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

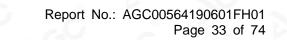
Note 5: βed cannot be set directly; it is set by Absolute Grant Value.

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.



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Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 4000	1852.4	23.83
WCDMA 1900	1880	23.01
RMC	1907.6	22.99
WODAA 4000	1852.4	23.01
WCDMA 1900	1880	23.22
AMR	1907.6	23.16
110000	1852.4	22.01
HSDPA	1880	22.12
Subtest 1	1907.6	21.60
LICDDA	1852.4	20.93
HSDPA	1880	21.24
Subtest 2	1907.6	20.49
LICDDA	1852.4	20.82
HSDPA Subtest 3	1880	21.12
Sublest 3	1907.6	20.32
LICDDA	1852.4	20.81
HSDPA Subtest 4	1880	21.06
Subtest 4	1907.6	20.25
HSUPA	1852.4	19.83
Subtest 1	1880	19.92
Subtest	1907.6	19.78
HSUPA	1852.4	19.92
Subtest 2	1880	20.05
Subtest 2	1907.6	19.82
HSUPA	1852.4	20.86
Subtest 3	1880	20.98
<u> </u>	1907.6	20.62
HSUPA	1852.4	19.52
Subtest 4	1880	19.54
Jubicoi 4	1907.6	19.40
HSUPA	1852.4	20.12
Subtest 5	1880	20.17
Gublest 5	1907.6	20.13







UMTS BAND V

Mode	Frequency	Avg. Burst Power
Widue	(MHz)	(dBm)
WCDMA 850	826.4	23.95
RMC	836.6	23.35
RIVIC	846.6	23.09
MODMA OFO	826.4	22.49
WCDMA 850	836.6	22.54
AMR	846.6	22.47
110004	826.4	23.85
HSDPA	836.6	23.48
Subtest 1	846.6	22.26
LIODDA	826.4	22.95
HSDPA	836.6	22.66
Subtest 2	846.6	23.55
110004	826.4	22.80
HSDPA	836.6	22.63
Subtest 3	846.6	23.53
LIODDA	826.4	22.67
HSDPA	836.6	22.52
Subtest 4	846.6	23.49
HOURA	826.4	21.36
HSUPA	836.6	21.16
Subtest 1	846.6	21.93
LIGUES	826.4	21.36
HSUPA	836.6	21.18
Subtest 2	846.6	22.01
C HOURA	826.4	22.41
HSUPA	836.6	22.18
Subtest 3	846.6	22.90
LICLIDA	826.4	20.88
HSUPA	836.6	20.60
Subtest 4	846.6	21.49
LICLIDA	826.4	21.82
HSUPA	836.6	20.45
Subtest 5	846.6	22.14





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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β c/ β d=12/15, β hs/ β c=24/15.For all	other combinations of DP	PDCH, 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	10.69
802.11b	1	06	2437	10.12
		11	2462	10.06
200	0	01	2412	9.72
802.11g	6	06	2437	10.86
0		11	2462	10.95
-6		01	2412	8.73
802.11n(20)	6.5	06	2437	8.06
	60 6	11	2462	7.88
6		03	2422	8.45
802.11n(40)	13.5	06	2437	7.76
		09	2452	7.95

Bluetooth_V4.0

Modulation	Channel	Frequency(MHz)	Avg. Burst Power (dBm)
10	0	2402	-8.003
GFSK	39	2441	-7.387
	78	2480	-7.173
6 46	0	2402	-8.717
π /4-DQPSK	39	2441	-8.652
0	78	2480	-8.144
	0	2402	-8.668
8-DPSK	39	2441	-8.322
	78	2480	-8.130

Bluetooth_V4.0

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
	0	2402	-22.628
GFSK	19	2440	-22.139
	39	2480	-21.930





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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 0mm from the phantom according to IEEE 1528-2013.

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 ≥ 0.8 W/Kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/Kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
- 3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- 4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/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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13.1.3. Test Result SAR MEASUREMENT

SAN WEASON	SAR MEASUREMENT											
Depth of Liquid	l (cm):>15			Relative	Humidity	(%): 47.8						
Product: TABLET												
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			0	- (0			6			
Body back	voice	190	836.6	0.87	0.104	32.50	32.49	0.104	1.6			
Body front	voice	190	836.6	-0.91	0.140	32.50	32.49	0.140	₀ 1.6			
Body back	GPRS-4 slot	190	836.6	0.72	0.180	25.70	25.37	0.194	1.6			
Body front	GPRS-4 slot	190	836.6	-0.94	0.197	25.70	25.37	0.213	1.6			
Edge 1 (Top)	GPRS-4 slot	190	836.6	0.73	0.046	25.70	25.37	0.050	1.6			
Edge 4(Left)	GPRS-4 slot	190	836.6	-0.85	0.005	25.70	25.37	0.005	1.6			

Note:

• When the 1-g Reported SAR is \leq 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498. • The test separation for body is 0mm of all above table.





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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 53.2

Product: TABLET

Test Mode: PCS1900 with GMSK modulation

100111100011 00	Test Mede. 1 Co Too Will Swick Mediation											
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	-1.01	0.177	31.60	31.37	0.187	1.6			
Body front	voice	661	1880.0	-1.08	0.314	31.60	31.37	0.331	1.6			
Body back	GPRS-4 slot	661	1880.0	1.14	0.714	25.40	25.28	0.734	ୀ.6			
Body front	GPRS-4 slot	512	1850.2	-1.06	0.902	25.40	25.40	0.902	1.6			
Body front	GPRS-4 slot	661	1880.0	1.23	1.161	25.40	25.28	1.194	1.6			
Body front	GPRS-4 slot	810	1909.8	-1.22	1.165	25.40	25.22	1.214	1.6			
Body front +Ear.	GPRS-4 slot	810	1909.8	1.05	1.133	25.40	25.22	1.181	1.6			
Edge 1 (Top)	GPRS-4 slot	661	1880.0	-1.19	0.279	25.40	25.28	0.287	1.6			
Edge 4(Left)	GPRS-4 slot	661	1880.0	1.07	0.061	25.40	25.28	0.063	1.6			

Note:

• When the 1-g Reported SAR is \leq 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498. • The test separation for body is 0mm of all above table.



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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 53.2

Product: TABLET

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	9262	1852.4	-1.05	0.727	23.85	23.83	0.730	1.6
Body back	RMC 12.2kbps	9400	1880	-1.10	0.839	23.85	23.01	1.018	1.6
Body back	RMC 12.2kbps	9538	1907.6	1.13	0.725	23.85	22.99	0.884	1.6
Body front	RMC 12.2kbps	9400	1880	1.10	0.796	23.85	23.01	0.966	1.6
Body back+Ear.	RMC 12.2kbps	9400	1880	1.08	0.789	23.85	23.01	0.957	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-1.16	0.218	23.85	23.01	0.265	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	-1.14	0.042	23.85	23.01	0.051	1.6

Note:

- When the 1-g Reported SAR is \leq 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498. The test separation for body is 0mm of all above table.



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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 47.8

Product: TABLET

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	836.6	-0.88	0.048	24.26	23.35	0.059	1.6
Body front	RMC 12.2kbps	4183	836.6	0.95	0.032	24.26	23.35	0.039	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.6	-0.92	0.012	24.26	23.35	0.015	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	-0.84	0.001	24.26	23.35	0.001	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 is 0mm of all above table.





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SAR MEASUREMENT	
Depth of Liquid (cm):>15	Relative Humidity (%): 52.4
Product: TABLET	
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)
Body back	DTS	6	2437	-1.02	0.087	11.00	10.12	0.107	1.6
Body front	DTS	6	2437	1.16	0.147	11.00	10.12	0.180	1.6
Edge 1 (Top)	DTS	6	2437	-1.05	0.150	11.00	10.12	0.184	1.6
Edge 2(Right)	DTS	6	2437	1.24	0.041	11.00	10.12	0.050	1.6
Edge 4(Left)	DTS	6	2437	-0.99	0.002	11.00	10.12	0.002	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 is 0mm of all above table.

Repeated S	SAR										
Product: TABLET											
Test Mode: PCS1900& WCDMA Band II											
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 front	GPRS-4slot	810	1909.8	0.89	1.135		F		-0	1.6	
Body back	RMC 12.2kbps	9400	1880	-0.76	0.725	(1.6	



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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)	® <u>-</u>	Yes				
2	GSM(voice)+Bluetooth(data)	0 -	Yes	-0			
3	GSM (Data) + WLAN 2.4GHz (data)		Yes	Yes			
4	GSM (Data) + Bluetooth(data)	N	Yes	Yes			
5	WCDMA+WLAN 2.4GHz (data)		Yes	Yes			
6	WCDMA+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)] • [$\sqrt{f(GHz)}$] ≤ 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		Max Power inc Toler	luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)
			mW	Distance (IIIII)	(VV/Kg)
ВТ	BT Body		0.25	5	0.010498677



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

DE Exposure	Test	Simultaneo	ous Transmissi	on Scenario	Σ1-g SAR	SPLSR
RF Exposure Conditions	Position	GSM 850	GSM 850 WI-Fi Bluetooth		(W/Kg)	(Yes/No)
	Deer	0.104	0.107		0.211	No
Body-worn	Rear	0.104		0.010498677	0.114	No
(voice)	C	0.140	0.180		0.320	No
	Front	0.140		0.010498677	0.150	No
0	Door	0.194		0.010498677	0.204	No
- C	Rear	0.194	0.107		0.301	No
	J =	0.213		0.010498677	0.223	No
Dark was	Front	0.213	0.180		0.393	No
Body-worn	Edge 1	0.050	0.184		0.234	No
	Edge 4	0.005	0.002		0.007	No
~GO	Edge 1	0.050		0.010498677	0.060	No
	Edge 4	0.005		0.010498677	0.015	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 Evenesure	Test	Simultaneo	us Transmissi	on Scenario	74 ~ CAD	SPLSR
RF Exposure Conditions	Position	GSM 1900	GSM 1900 WI-Fi DTS Band Bluetooth		Σ1-g SAR (W/Kg)	(Yes/No)
	Door	0.187	0.107		0.294	No
Body-worn (voice)	Rear	0.187		0.010498677	0.197	No
	Central	0.331	0.180		0.511	No
	Front	0.331		0.010498677	0.341	No
0	D	0.734		0.010498677	0.744	No
- C	Rear	0.734	0.107		0.841	No
	<i>J</i> =	1.214		0.010498677	1.224	No
De du vicenia	Front	1.214	0.180		1.394	No
Body-worn	Edge 1	0.287	0.184		0.471	No
	Edge 4	0.063	0.002		0.065	No
~ GO	Edge 1	0.287		0.010498677	0.297	○ No
	Edge 4	0.063		0.010498677	0.073	No

Note:



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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"



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

RF Exposure	Test	Simultaneo	us Transmissi	Σ1-g SAR	SPLSR	
Conditions	Position	WCDMA Band II	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
0	Rear	1.018	0.107		1.125	No
	Front	0.966	0.180		1.146	No
~ GO	Edge 1	0.265	0.184		0.449	No
Dody worn	Edge 4	0.051	0.002		0.053	No
Body-worn	Rear	1.018		0.010498677	1.028	No
GC C	Front	0.966		0.010498677	0.976	No
	Edge 1	0.265		0.010498677	0.275	No
	Edge 4	0.051		0.010498677	0.061	No

Note:

- -According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
 -SPLSR mean is "The SAR to Peak Location Separation Ratio"



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

RF Exposure	Test	Simultaneo	ous Transmissi	on Scenario	Σ1-g SAR	SPLSR			
Conditions	Position	WCDMA Band V	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)			
	Rear	0.055	0.107		0.162	No			
0	Front	0.037	0.180		0.217	No			
~ GO	Edge 1	0.014	0.184		0.198	No			
Dody worn	Edge 4	0.001	0.002		0.003	No			
Body-worn	Rear	0.055		0.010498677	0.065	No			
- C	Front	0.037		0.010498677	0.047	No			
G -	Edge 1	0.014		0.010498677	0.024	No			
	Edge 4	0.001		0.010498677	0.011	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"



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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Aug. 04,2019

System Check Body 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=5.49 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.95$ mho/m; ϵ r = 54.26; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

SATIMO Configuration

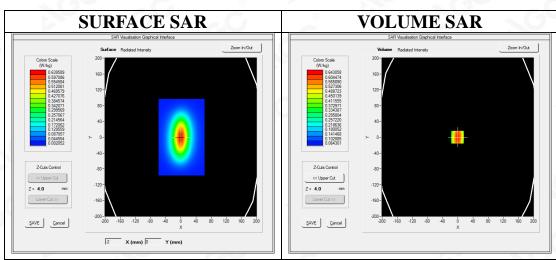
Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

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



Maximum location: X=-1.00, Y=0.00 SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.408543			
SAR 1g (W/Kg)	0.619272			

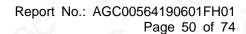


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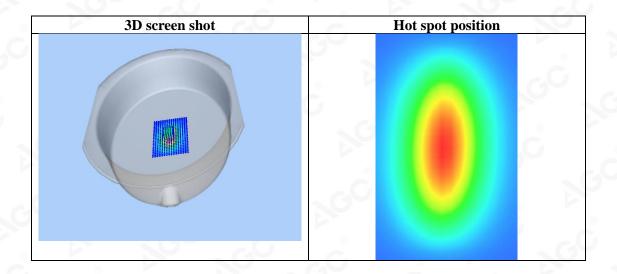
Tel: +86-755 2523 4088 E-ma

E-mail: agc@agc-cert.com





0.00	4.00	9.00	14.00	19.00	24.00	29.00
0.8757	0.6465	0.4385	0.303	0.2187	0.1591	0.1143
0.9-						
	+		+++			
	++					
				++-		
0.0	2.5 5.0 7.5 10	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
	0.8757 0.9- 0.8- 0.7- \$\text{\$0.6-} \$\text{\$0.5-} \$\text{\$0.4-} 0.3- 0.2- 0.1-	0.8757 0.6465 0.9- 0.8- 0.7- 0.6- 0.5- 0.5- 0.3- 0.2- 0.1-	0.8757 0.6465 0.4385 0.9 0.87 0.7 0.7 0.6465 0.4385 0.9 0.7 0.7 0.7 0.7 0.5 0.5 0.5 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.8757	0.8757	0.8757







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Test Laboratory: AGC Lab System Check Body 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.39 Frequency: 1900 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.36$; $\rho = 1000$ kg/m³;

Date: July 26,2019

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$ C):21.9, Liquid temperature ($^{\circ}$ C): 21.6

SATIMO Configuration:

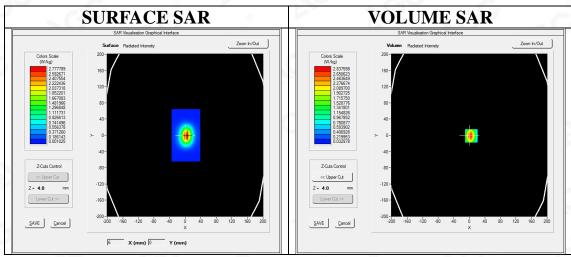
· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

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

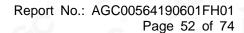


Maximum location: X=5.00, Y=-1.00 SAR Peak: 4.62 W/kg

SAR 10g (W/Kg)	1.343804
SAR 1g (W/Kg)	2.602765

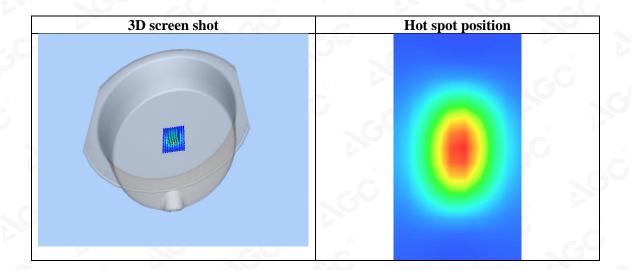


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0.00 14.00 19.00 24.00 $\mathbf{Z}(\mathbf{mm})$ 4.00 9.00 29.00 SAR 4.5703 2.8341 1.5138 0.8518 0.4743 0.1518 0.2665 (W/Kg) 4.00 SAR (W.kg) 2.00-1.00 0.09 -30.0 0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 35.0 40.0 Z (mm)







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Test Laboratory: AGC Lab System Check Body 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=5.04 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.94$ mho/m; $\epsilon r = 53.67$; $\rho = 1000$ kg/m³;

Date: Aug. 05,2019

Phantom section: Flat Section; Input Power=18dBm

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

SATIMO Configuration

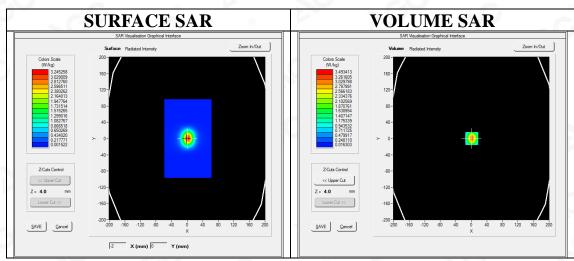
· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

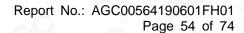
Configuration/System Check 2450MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 2450MHz Body/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=1.00, Y=0.00 SAR Peak: 6.00 W/kg

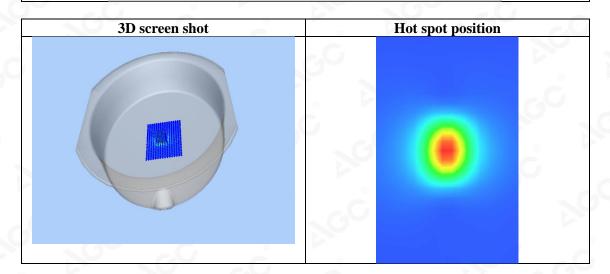
SAR 10g (W/Kg)	1.469464
SAR 1g (W/Kg)	3.253983







0.00 14.00 19.00 24.00 $\mathbf{Z}(\mathbf{mm})$ 4.00 9.00 29.00 SAR 6.0456 3.4975 1.6492 0.7985 0.3843 0.1972 0.0995 (W/Kg) 6.04 5.00 3.00 (B) 4.00 (B) 3.00 (B) 2.00 1.00 0.05 -25.0 30.0 0.0 2.5 5.0 7.5 10.0 15.0 20.0 35.0 40.0 Z (mm)







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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Aug. 04,2019

GPRS 850 Mid- Body- Front (4up) DUT: TABLET; Type: NET_MAX

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.49; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.96$ mho/m; $\epsilon r = 54.03$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.2, Liquid temperature ($^{\circ}$ C): 20.9

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

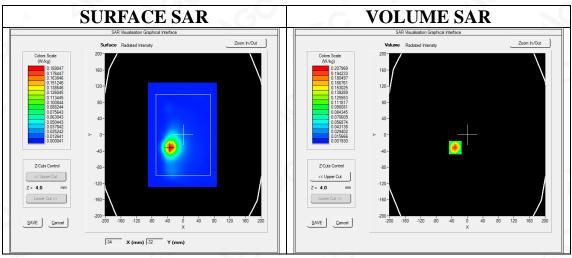
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

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

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



Maximum location: X=-31.00, Y=-32.00 SAR Peak: 0.34 W/kg

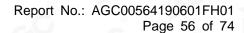
SAR 10g (W/Kg)	0.099182
SAR 1g (W/Kg)	0.196581



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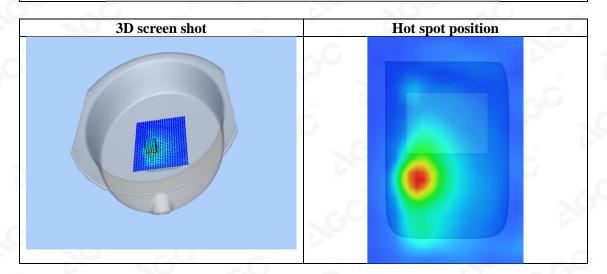
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China





0.00 14.00 19.00 24.00 $\mathbf{Z}(\mathbf{mm})$ 4.00 9.00 29.00 SAR 0.3385 0.2080 0.1095 0.0579 0.0325 0.0178 0.0101 (W/Kg) 0.34 0.30 0.25 SAR (W/kg) 0.10 0.10 0.05 0.01 -15.0 30.0 0.0 2.5 5.0 7.5 10.0 20.0 25.0 35.0 40.0 Z (mm)







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Test Laboratory: AGC Lab Date: July 26,2019

GPRS 1900 High-Body-Front (4up) DUT: TABLET; Type: NET_MAX

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=5.39; Frequency: 1909.8 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.51$ mho/m; ϵ r =51.98; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

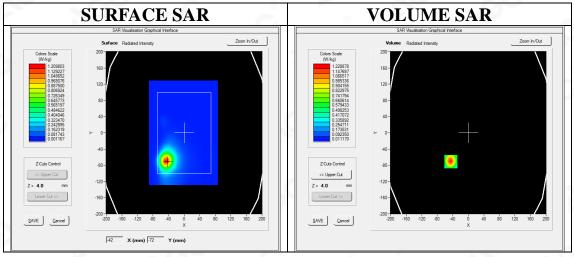
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	U ELLI			
Device Position	Body Front			
Band	PCS 1900			
Channels	High			
Signal	TDMA (Crest factor: 4.0)			



Maximum location: X=-45.00, Y=-71.00 SAR Peak: 2.01 W/kg

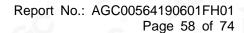
SAR 10g (W/Kg)	0.587584			
SAR 1g (W/Kg)	1.164808			



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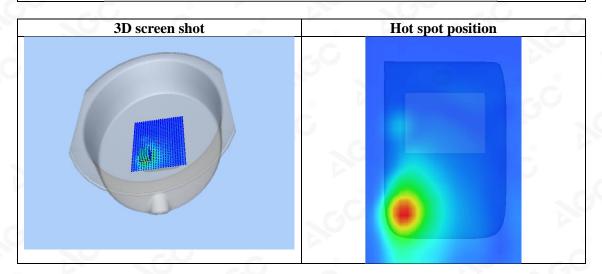
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China





0.00 14.00 19.00 $\mathbf{Z}(\mathbf{mm})$ 4.00 9.00 24.00 29.00 SAR 1.9834 1.2289 0.6434 0.3440 0.1730 0.0878 0.0452 (W/Kg) 1.98 1.75 1.50 SAR 0.75 0.75 0.50 0.25 0.02 -30.0 0.0 2.5 5.0 7.5 10.0 20.0 25.0 35.0 40.0 Z (mm)







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Test Laboratory: AGC Lab Date: July 26,2019

WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)

DUT: TABLET; Type: NET_MAX

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.39; Frequency: 1880 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.48$ mho/m; ϵ r =52.52; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

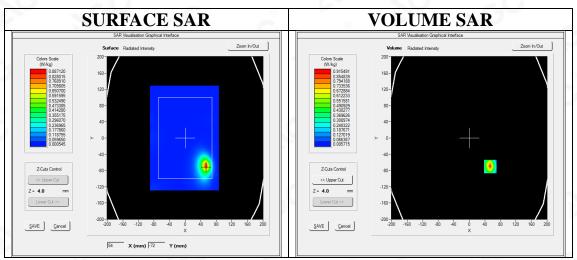
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

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

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



Maximum location: X=54.00, Y=-70.00 **SAR Peak:** 1.65 W/kg

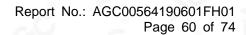
SAR 10g (W/Kg)	0.366347			
SAR 1g (W/Kg)	0.838983			



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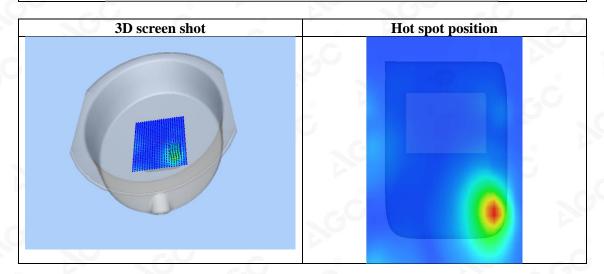
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6715	0.9155	0.3935	0.1847	0.0884	0.0443	0.0229
100	1.7-						\G(
	12-	$\backslash \sqcup$					
	0.8-						
	0.6- 0.4-						
	0.2-			+++			
	0.0	2.5 5.0 7.5 1		20.0 25.0 Z (mm)	30.0 35.0	0 40.0	





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Test Laboratory: AGC Lab Date: Aug. 04,2019

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

DUT: TABLET; Type: NET_MAX

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.49; Frequency: 836.6 MHz; Medium parameters used: f = 835MHz; $\sigma = 0.96$ mho/m; $\epsilon r = 54.03$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.2, Liquid temperature ($^{\circ}$ C): 20.9

SATIMO Configuration:

· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

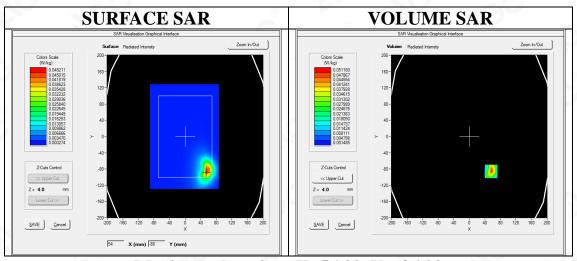
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA Band V 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	WCDMA Band V			
Channels	Middle			
Signal	CDMA (Crest factor: 1.0)			



Maximum location: X=56.00, Y=-86.00 SAR Peak: 0.09 W/kg

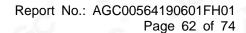
SAR 10g (W/Kg)	0.022738			
SAR 1g (W/Kg)	0.047869			



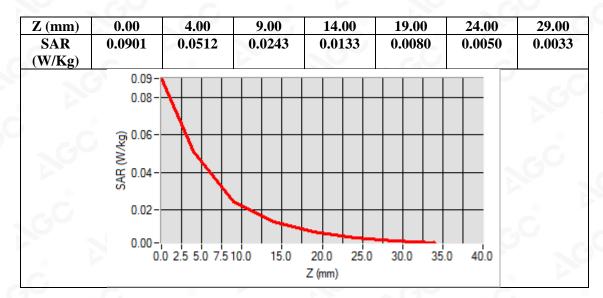
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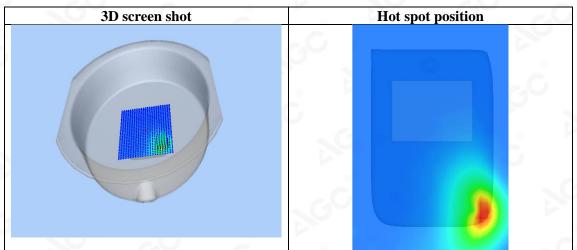
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China













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WIFI MODE

Test Laboratory: AGC Lab
802.11b Mid-Edge 1 (DTS)
Date: Aug. 05,2019

DUT: TABLET; Type: NET_MAX

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.04;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.93$ mho/m; $\epsilon r = 53.95$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

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

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

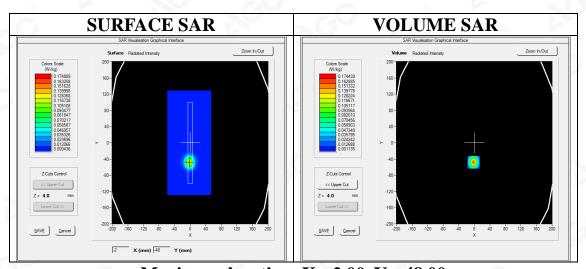
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

Configuration/802.11b Mid-Edge 1 /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/802.11b Mid-Edge 1 /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 1			
Band	2450MHz			
Channels	Middle			
Signal	Crest factor: 1.0			



Maximum location: X=-2.00, Y=-48.00

SAR Peak: 0.30 W/kg

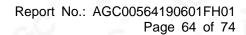
SAR 10g (W/Kg)	0.058982
SAR 1g (W/Kg)	0.149697



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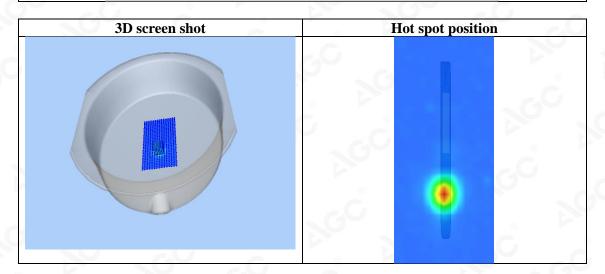
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3045	0.1744	0.0814	0.0408	0.0204	0.0105	0.0056
	0.30-						
	0.25-	\longrightarrow		+++			
	⊚ 0.20-	\longrightarrow			+++		
	(6) 0.20 - (7) 0.15 -	+		-			
	S 0.10-	$++\lambda$					
	0.05-						
	0.00-			-+++	╇╇┸╿		
	0	0 2.5 5.0 7.5	10.0 15.0	20.0 25.0 Z (mm)	30.0 35.	0 40.0	







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Repeated SAR

Test Laboratory: AGC Lab Date: July 26,2019

GPRS 1900 High-Body-Front (4up) DUT: TABLET; Type: NET_MAX

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=5.39; Frequency: 1909.8 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.51 \text{ mho/m}$; $\epsilon r = 51.98$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

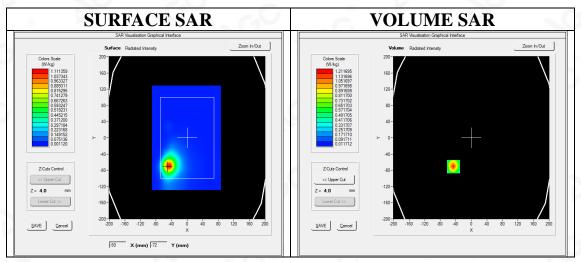
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4 02 35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	ELLI		
Device Position	Body Front		
Band	PCS 1900		
Channels	High		
Signal	TDMA (Crest factor: 4.0)		



Maximum location: X=-46.00, Y=-71.00 SAR Peak: 2.03 W/kg

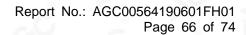
SAR 10g (W/Kg)	0.564837
SAR 1g (W/Kg)	1.134697



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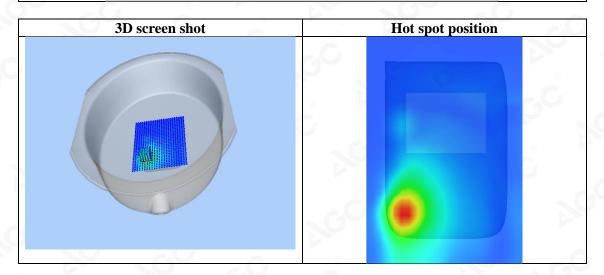
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0449	1.2136	0.6041	0.3123	0.1649	0.0816	0.0443
	2.04-	\ 			1 1 1		
	1.75-	\longrightarrow					
	1.50-	$\rightarrow ++$					
	Ø 1.25- № 1.00-	\longrightarrow					
	≥ 1.00-	$+\lambda$					
	WS 0.75-	$++\lambda$		-	++++		
	0.50-		\mathbf{H}				
	0.25-	$\overline{}$			++++		
	0.02 -				+		
	0.	.0 2.5 5.0 7.51	0.0 15.0	20.0 25.0 Z (mm)	30.0 35.	0 40.0	







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Repeated SAR

Test Laboratory: AGC Lab Date: July 26,2019

WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)

DUT: TABLET; Type: NET_MAX

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.39; Frequency: 1880 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.48$ mho/m; ϵ r =52.52; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

• Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

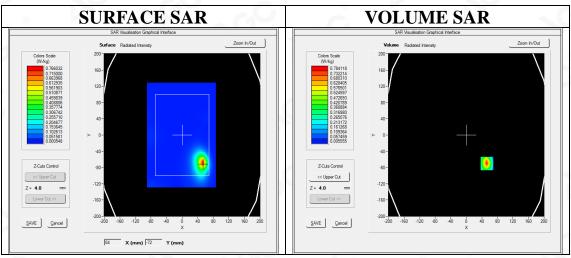
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: ELLI39 Phantom

· Measurement SW: OpenSAR V4_02_35

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

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



Maximum location: X=53.00, Y=-70.00

SAR Peak: 1.40 W/kg

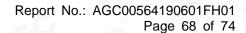
SAR 10g (W/Kg)	0.322521			
SAR 1g (W/Kg)	0.724613			



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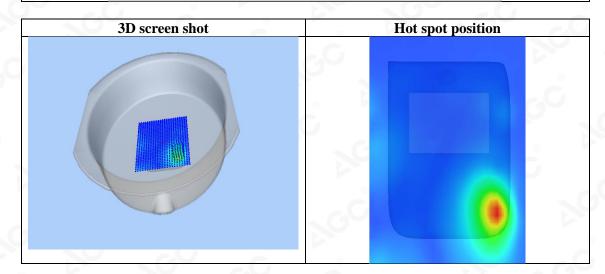
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China

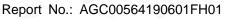




0.00 14.00 19.00 $\mathbf{Z}(\mathbf{mm})$ 4.00 9.00 24.00 29.00 SAR 1.4205 0.7823 0.3401 0.1593 0.0754 0.0367 0.0191 (W/Kg) 1.0 8.0 0.6 0.4 0.2 0.0-0.0 2.5 5.0 7.5 10.0 25.0 30.0 20.0 35.0 40.0 15.0 Z (mm)





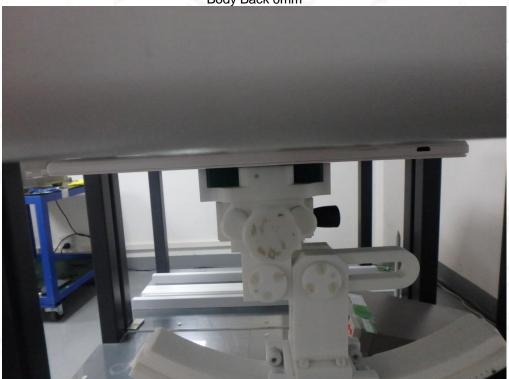


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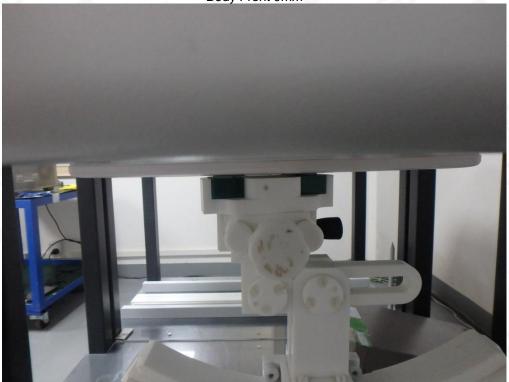


APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm

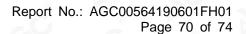


Body Front 0mm



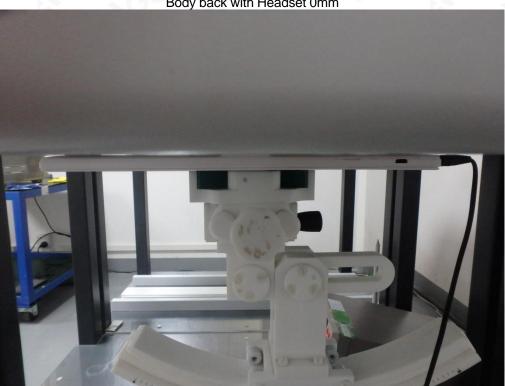


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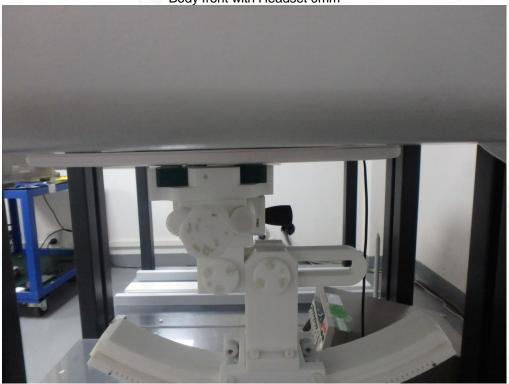




Body back with Headset 0mm



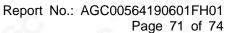
Body front with Headset 0mm





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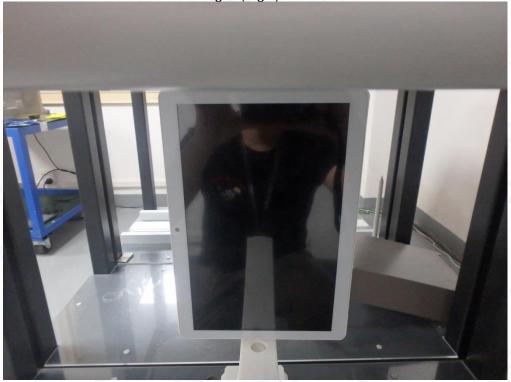








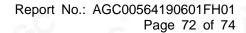
Edge 2(Right) 0mm





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Edge 4(Left) 0mm





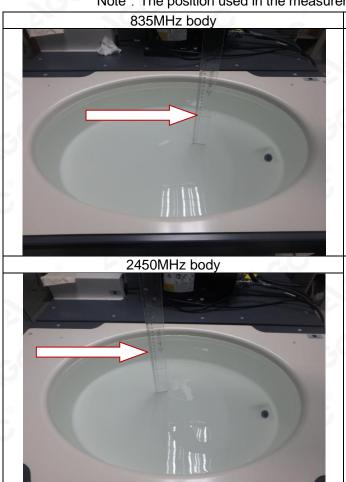
 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

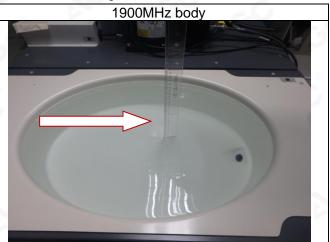


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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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







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APPENDIX D. CALIBRATION DATA

Refer to Attached files.



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