





SAR Test Report

Report No.: AGC14499240405FH01B

FCC ID : 2BCUQ-W610D

APPLICATION PURPOSE: Class II Permissive Change

PRODUCT DESIGNATION: Portable DECT Phone

BRAND NAME : LINXVIL

MODEL NAME : W610D, W610DP, W710P, W610P

APPLICANT: Fanvil Link Technology Co.,LTD

DATE OF ISSUE : Jun. 25, 2025

IEEE Std. 1528:2013

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

IEEE Std C95.1 ™-2019

REPORT VERSION: V1.0

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



Page 2 of 51

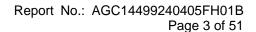
Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 25, 2025	Valid	Initial Release

Note: The original test report AGC14499240405FH01(dated Jun. 13, 2024 and tested on Jun. 03, 2024) was modified on Jun. 25, 2025, including the following changes and additions:

- -Update the names and addresses of the applicant and manufacturer
- Added a battery
- -Upgrade standard from IEEE Std C95.1 [™]-2005 to IEEE Std C95.1 [™]-2019;

For the above described change, Based on the above changes, test data was added under the worst case of the head and body.





	Test Report
Applicant Name	Fanvil Link Technology Co.,LTD
Applicant Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Manufacturer Name	Fanvil Link Technology Co.,LTD
Manufacturer Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Factory Name	N/A
Factory Address	N/A
Product Designation	Portable DECT Phone
Brand Name	LINKVIL
Model Name	W610D
Series Models	W610DP, W710P, W610P
Declaration of Difference	Only the model names are different
EUT Voltage	DC 3.8V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2019
Date of receipt of test item	May 16, 2025
Test Date	Jun. 22, 2025
Report Template	AGCRT-US-1.8G/SAR (2021-04-20)

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

Prepared By	Bibo zhang	
Reviewed By	Bibo Zhang (Project Engineer)	Jun. 25, 2025
Approved By	Jack Gui (Reviewer)	Jun. 25, 2025
	Angela Li (Authorized Officer)	Jun. 25, 2025



TABLE OF CONTENTS

1. SUMMARY OF MAXIMUM SAR VALUE	5
2. GENERAL INFORMATION	6
2.1. EUT DESCRIPTION	6
3. SAR MEASUREMENT SYSTEM	7
3.1. THE SATIMO SYSTEM USED FOR PERFORMING COMPLIANCE TESTS CONSISTS OF FOLLOWING ITEMS 3.2. COMOSAR E-FIELD PROBE 3.3. ROBOT 3.4. VIDEO POSITIONING SYSTEM 3.5. DEVICE HOLDER 3.6. SAM TWIN PHANTOM	8 9 10 11
4. SAR MEASUREMENT PROCEDURE	12
4.1. SPECIFIC ABSORPTION RATE (SAR)	13
5. TISSUE SIMULATING LIQUID	16
5.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID	16
6. SAR SYSTEM CHECK PROCEDURE	18
6.1. SAR SYSTEM CHECK PROCEDURES	
7. EUT TEST POSITION	20
7.1. DEFINE TWO IMAGINARY LINES ON THE HANDSET	21 21
8. SAR EXPOSURE LIMITS	23
9. TEST FACILITY	24
10. TEST EQUIPMENT LIST	25
11. MEASUREMENT UNCERTAINTY	26
12. CONDUCTED POWER MEASUREMENT	32
13. TEST RESULTS	33
13.1. SAR TEST RESULTS SUMMARY	33
APPENDIX A. SAR SYSTEM CHECK DATA	38
APPENDIX B. SAR MEASUREMENT DATA	42
APPENDIX C. TEST SETUP PHOTOGRAPHS	50
APPENDIX D. CALIBRATION DATA	50



Page 5 of 51

1. SUMMARY OF MAXIMUM SAR VALUE

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

Erogueney Bend	Highest Rep	Highest Reported 1g-SAR(W/kg)		
Frequency Band	Head	Body-worn(with 0mm separation)	(W/kg)	
1.9GHz	0.034	0.076		
Simultaneous		0.181		
Reported SAR		0.101		
SAR Test Result		PASS		

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE Std C95.1 [™]-2019 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

Note: This standard FCC 47 CFR Part 2§2.1093 is not within the A2LA control range.



Page 6 of 51

2. GENERAL INFORMATION

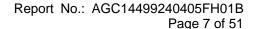
2.1 FUT Description

2.1. EUT Description	
General Information	
Product Designation	Portable DECT Phone
Test Model	W610D
Hardware Version	V1.0
Software Version	T0.4.8.5
Duty cycle measurements	4% (manufacturer declared)
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
1.9 GHz	
Operating Frequency Range	1921.536MHz~1928.448MHz
Type of modulation	GFSK
Antenna Gain	4.6dBi
Max. EIRP	22.75dBm
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	⊠GFSK ⊠∏/4-DQPSK ⊠8-DPSK
Max. Peak Power	3.056dBm
Antenna Gain	3.7dBi
Accessories	
Battery	Brand name: N/A Model No.: YJ563170 Voltage and Capacitance: 3.8 V & 1900mAh
New Battery	Brand name: N/A Model No.: 543171PN3 Voltage and Capacitance: 3.8 V & 1900mAh for testing is end product

Note:1. The sample used for testing is end product.

2. The test sample has no any deviation to the test method of standard mentioned in page 1.

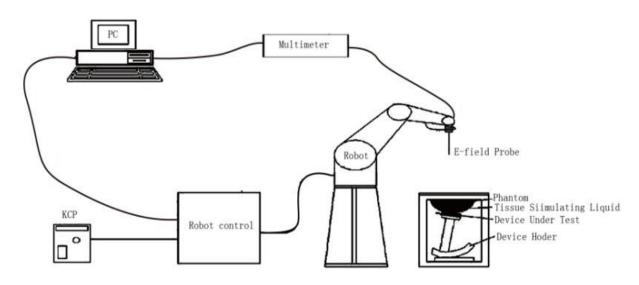
Product	Type			
Product	⊠P	roduction unit	☐ Identical Prototype	





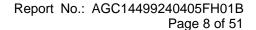
3. SAR MEASUREMENT SYSTEM

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



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

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





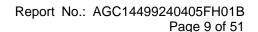
3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

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

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3.3. Robot

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

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

☐ High precision (repeatability 0.02 mm)

☐ High reliability (industrial design)

☐ Jerk-free straight movements

☐ Low ELF interference (the closed metallic

construction shields against motor control fields)

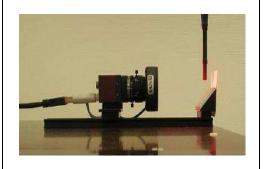
☐ 6-axis controller



3.4. Video Positioning System

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

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





Report No.: AGC14499240405FH01B Page 10 of 51

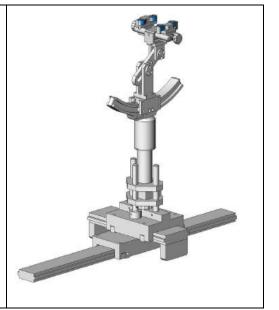
3.5. Device Holder

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.





Report No.: AGC14499240405FH01B Page 11 of 51

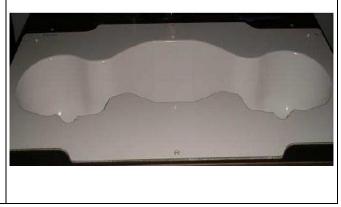
3.6. SAM Twin Phantom

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.



Page 12 of 51

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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Page 13 of 51

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}	spatial resolution: Δx_{Area} , Δy_{Area} When the x or y dimension of the test device, i measurement plane orientation, is smaller than the measurement resolution must be \leq the corresponding to ≤ 1 t	

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.



Report No.: AGC14499240405FH01B Page 14 of 51

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*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	$\begin{array}{c} \Delta z_{Z00m}(1)\text{: between} \\ 1^{\text{st}} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{Z00m}(n > 1)\text{:} \\ \text{between subsequent} \\ \text{points} \end{array}$	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	m scan 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.



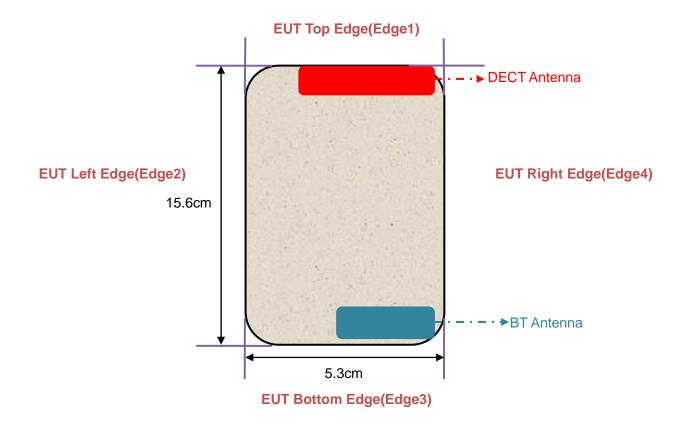
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT is a Portable DECT Phone which supports 1.8GHz & Bluetooth.

For SAR test, the EUT is controlled with DECT communication system TX2012 which can provide continuous transmitting RF signal.

Antenna Location: (the back view)





Page 16 of 51

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
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

Target Frequency	he	ad	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		

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



Page 17 of 51

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.

Diologano i	1000 I tit alla	Tion individually	201 2 1 20.							
	Tissue Stimulant Measurement for 1900MHz									
	Fr.	Dielectric Para	Ambient	Relative	Tissue					
		εr40.00(36.00-44	δ[s/m]1.40(1.26	Temp	Humidity	Temp	Test time			
Head	(IVI□/)	.00)	-1.54)	[℃]	(%)	[oC]				
	1900	39.17	1.36	21.2	56.1	20.9	Jun. 03,			
	1924.992	38.42	1.38	21.2	36.1	20.9	2024			

	Tissue Stimulant Measurement for 1900MHz									
	Fr.		Dielectric Para	Ambient	Relative	Tissue				
			εr40.00(36.00-44	δ[s/m]1.40(1.26	Temp	Humidity	Temp	Test time		
Hea	Head (MHz)	.00)	-1.54)	[℃]	(%)	[oC]				
		1900	39.53	1.42	20.9	54.3	20.7	Jun. 22,		
	1924.992	38.89	1.39	20.9	54.5	20.7	2025			



Report No.: AGC14499240405FH01B Page 18 of 51

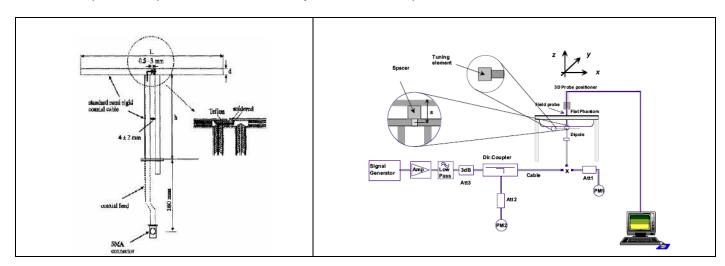
6. SAR SYSTEM CHECK PROCEDURE

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.

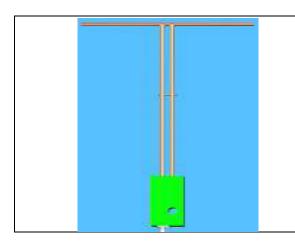
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.





Report No.: AGC14499240405FH01B Page 19 of 51

6.2. SAR System Check 6.2.1. Dipoles



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

Frequency	L (mm)	h (mm)	d (mm)
1900MHz	68	39.5	3.6

6.2.2. System Check Result

System Performance Check at 1900MHz for Head									
Validation Kit: SN 4611 DIP 1G800-186									
Frequency	Target Value(W/kg)		Reference (± 1		sted (W/kg)	Test time			
[MHz]	1g	10g	1g	10g	1g	10g			
1900	41.26	20.86	37.134-45.386	18.774-22.946	42.35	21.29	Jun. 03, 2024		
1900	39.83	20.59	35.85-43.81	18.53-22.65	42.36	20.53	Jun. 22, 2025		

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.



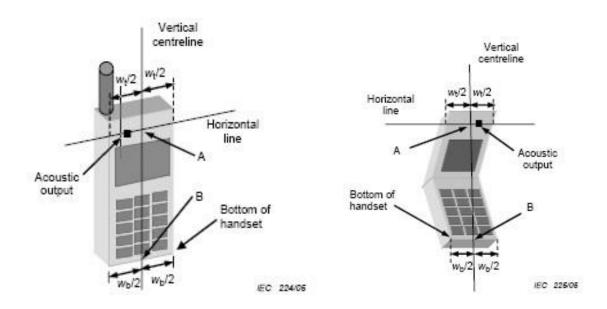
Page 20 of 51

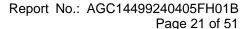
7. EUT TEST POSITION

This EUT was tested in Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front

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.

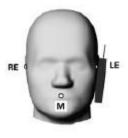






7.2. Cheek Position

- (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





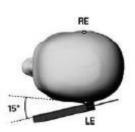


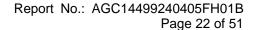
7.3. Tilt Position

- (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.





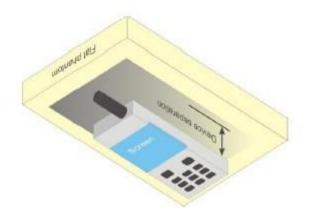


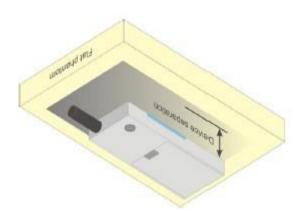




7.4. Body Worn Position

- (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 0mm.







Page 23 of 51

8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of IEEE-1528, and comply with ANSI/IEEE C95.1-2005 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

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



Page 24 of 51

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
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA



Report No.: AGC14499240405FH01B Page 25 of 51

10. TEST EQUIPMENT LIST

No.	Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
AGC-HE-A103	SAR Probe	MVG	2023-EPGO-414	N/A	2024-04-30	2025-04-29
AGC-HE-A103	SAR Probe	MVG	2023-EPGO-414	N/A	2025-05-06	2026-05-05
AGC-HE-E016	Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
AGC-ER-E020	WIRELESS COMMUNICATIO N TEST SET	Agilent-8960	GB46200384	N/A	2024-05-28	2025-05-27
AGC-ER-E020	WIRELESS COMMUNICATIO N TEST SET	Agilent-8960	GB46200384	N/A	2025-05-21	2026-05-20
AGC-HE-E005	Multimeter	Keithley 2000	1350784	N/A	2024-05-24	2025-05-23
AGC-HE-E005	Multimeter	Keithley 2000	1350784	N/A	2025-05-16	2026-05-15
AGC-HE-S001	SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
AGC-HE-A059	Dipole	SATIMO SID1900	SN 2915 DIP 1G900-389	N/A	2022-04-28	2025-04-27
AGC-HE-A059	Dipole	SATIMO SID1900	SN 2915 DIP 1G900-389	N/A	2025-05-15	2028-05-14
AGC-HE-E021	Signal Generator	Agilent-E4438C	US41461365	V5.03	2024-05-24	2025-05-23
AGC-HE-E021	Signal Generator	Agilent-E4438C	US41461365	V5.03	2025-05-21	2026-05-20
AGC-EM-E061	EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	2024-05-28	2025-05-27
AGC-EM-E061	EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	2025-05-08	2026-05-07
AGC-HE-E004	Network Analyzer	Rhode & Schwarz ZVL6	101443	3.2	2023-9-21	2024-09-20
AGC-HE-E004	Network Analyzer	Rhode & Schwarz ZVL6	101443	3.2	2024-07-24	2025-07-23
AGC-ER-A001	Attenuator	SMA-JK	N/A	N/A	2023-09-21	2025-09-20
AGC-EM-E019	Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
AGC-EM-E040	Directional Couple	Werlatone/ C5571-10	SN99463	N/A	2024-02-01	2026-01-31
AGC-EM-E041	Directional Couple	Werlatone/ C6026-10	SN99482	N/A	2024-02-01	2026-01-31
AGC-BQ-E016	Power Sensor	NRP-Z21	104604	N/A	2024-05-24	2025-05-23
AGC-BQ-E016	Power Sensor	NRP-Z21	104604	N/A	2025-05-16	2026-05-15
AGC-HE-E023	Power Sensor	NRP-Z23	100323	N/A	2024-06-05	2025-06-04
AGC-HE-E023	Power Sensor	NRP-Z23	100323	N/A	2025-01-14	2026-01-13
AGC-HE-S004	Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
AGC-HE-A001	Calibration standard parts for network sub - port	R&S/ ZV-Z132	100707	V2.3.1.0	2024-11-08	2025-11-07
AGC-HE-A002	Thermometer	DigiMate/TP677	3811930452	N/A	2024-06-06	2025-06-05
AGC-HE-A002	Thermometer	DigiMate/TP677	3811930452	N/A	2025-05-24	2027-05-23

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:

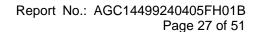
- 1. There is no physical damage on the dipole;
- 2. System validation with specific dipole is within 10% of calibrated value;
- 3. Return-loss is within 20% of calibrated measurement;
- 4. Impedance is within 5Ω of calibrated measurement.



Report No.: AGC14499240405FH01B Page 26 of 51

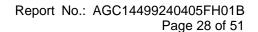
11. MEASUREMENT UNCERTAINTY

		SATIMO Uno							
M	easurement ι	uncertainty f	or DUT av Prob.	/eraged ov	<u>'er 1 gram /</u> 1	10 gram.	1g Ui	10g Ui	I
Uncertainty Component	Sec.	(+- %)	Dist.	Div.	Ci (1g)	Ci (10g)	(+-%)	(+-%)	vi
Measurement System	•			•	•	•			1
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	oc
Axial Isotropy	E.2.2	0.090	R	√3	√0.5	√0.5	0.037	0.037	o
Hemispherical Isotropy	E.2.2	0.090	R	√3	√0.5	√0.5	0.037	0.037	α.
Boundary effect	E.2.3	1.000	R	√3	1	1	0.577	0.577	α
Linearity	E.2.4	0.890	R	√3	1	1	0.514	0.514	α
System detection limits	E.2.4	1.000	R	√3	1	1	0.577	0.577	o
Modulation response	E2.5	3.000	R	√3	1	1	1.732	1.732	α
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	α
Response Time	E.2.7	0.000	R	√3	1	1	0.000	0.000	o
Integration Time	E.2.8	1.400	R	√ 3	1	1	0.808	0.808	o
RF ambient conditions-Noise	E.6.1	3.000	R	√ 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	œ
Probe positioner mechanical tolerance	E.6.2	1.400	R	√3	1	1	0.808	0.808	0
Probe positioning with respect to phantom shell	E.6.3	1.400	R	√3	1	1	0.808	0.808	С
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	√3	1	1	1.328	1.328	0
Test sample Related									
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	0
SAR scaling	E.6.5	5	R	√3	1	1	2.887	2.887	0
Phantom and tissue parameter	rs								
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.309	2.309	0
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	0
Liquid conductivity measurement	E.3.3	4	R	√3	0.78	0.71	3.120	2.840	0
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.150	1.300	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	1.126	1.025	С
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	N
Combined Standard Uncertainty			RSS				10.526	10.341	
Expanded Uncertainty (95% Confidence interval)			K=2				21.052	20.682	



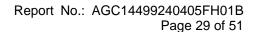


0		ATIMO Uno				. / 10			
System		uncertainty Tol	Prob.				1g Ui	10g Ui	Ι.
Uncertainty Component	Sec.	(+- %)	Dist.	Div.	Ci (1g)	Ci (10g)	(+-%)	(+-%)	vi
Measurement System	1	T	_	T	ı	_	1	1	
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.090	R	√3	1	1	0.052	0.052	∞
Hemispherical Isotropy	E.2.2	0.090	R	√3	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	√3	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	√3	1	1	0.514	0.514	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Modulation response	E2.5	3.0	R	√3	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	√3	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
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	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	1	1	1.33	1.33	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	√3	1	1	1.15	1.15	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	8
Liquid conductivity (temperature uncertainty)	E.3.3	2.5	R	√3	0.78	0.71	1.13	1.02	~
Liquid conductivity (measured)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	М
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Liquid permittivity (measured)	E.3.4	5	N	1	0.23	0.26	1.15	1.30	М
Combined Standard Uncertainty			RSS				10.459	10.272	
Expanded Uncertainty (95% Confidence interval)			K=2				20.917	20.545	



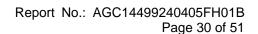


_		SATIMO Uno							
Sy	<u>rstem Check ι</u>	uncertainty f Tol	or DUT average Prob.	veraged ov	<u>/er 1 gram /</u>	10 gram.	1 ~ 1 1:	10011	1
Uncertainty Component	Sec.	(+- %)	Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System		1 ()		l .			(/	(/	
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.090	R	√3	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	√3	0	0	0.00	0.00	∞
Linearity	E.2.4	0.890	R	√3	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	√3	0	0	0.00	0.00	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
	E.2.7	0.021	R		0	0	0.00	0.00	× ×
Response Time				√3 √3	_				
Integration Time	E.2.8	1.4	R	√3 √3	0	0	0.00	0.00	∞
RF ambient conditions-Noise RF ambient	E.6.1	3.0	R	√3	0	0	0.00	0.00	∞
conditions-reflections	E.6.1	3.0	R	√3	0	0	0.00	0.00	∞
Probe positioner mechanical	E.6.2	1.4	R	√3	1	1	0.81	0.81	∞
tolerance Probe positioning with respect							0.01	0.01	-
to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation,				_					
and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	0	0	0.00	0.00	∞
System check source (dipole)			<u> </u>			<u> </u>	<u> </u>		
Deviation of experimental			Ι			Ι,	T	T	
dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	∞
measurement Dipole axis to liquid distance	8,E.6.6	2.0	R	√3	1	1	1.15	1.15	∞
Phantom and tissue parameter		2.0	1	γ3	'	'	1.10	1.10	
Phantom shell									
uncertainty—shape, thickness,	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
and permittivity				·					
Uncertainty in SAR correction for deviations in permittivity and	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
conductivity				·	·	0.0.			
Liquid conductivity	E.3.3	4	R	√3	0.78	0.71	3.12	2.84	∞
measurement Liquid permittivity									
measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid	E 0.4	0.5			0.00	0.00	4.40	4.00	
conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	1.13	1.02	∞
Liquid			1						
permittivity—temperature	E.3.4	2.5	N	1	0.23	0.26	0.33	0.38	М
uncertainty Combined Standard			_			-	-	-	
Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty			K=2				11.124	10.406	
(95% Confidence interval)								. 500	



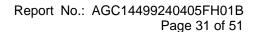


M	easurement u	SATIMO Und				10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System		(+- %)	DIST.		_		(+-70)	(+-70)	
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	×
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	1.105	R	1.732	1	1	0.638	0.638	×
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	×
Modulation response	E2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	×
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	8
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	8
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameter	rs								
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	М
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	М
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.533	10.348	
Expanded Uncertainty (95% Confidence interval)			K=2				21.065	20.695	





System		ATIMO Und				n / 10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System							•		
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	1.000	1.000	0.061	0.061	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	8
Linearity	E.2.4	1.105	R	1.732	1.000	1.000	0.638	0.638	8
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	8
Modulation response	E2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	8
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	М
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	М
Combined Standard Uncertainty			RSS				10.466	10.279	
Expanded Uncertainty (95% Confidence interval)			K=2				20.931	20.559	





	Ş	SATIMO Und	ertainty-	2023-FPG	Ω-414				
Sy	stem Check u		or DUT a			10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	×
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	1.732	0	0	0	0	×
Linearity	E.2.4	1.105	R	1.732	0	0	0	0	×
System detection limits	E.2.4	1	R	1.732	0	0	0	0	×
Modulation response	E2.5	3	R	1.732	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0	0	∞
Response Time	E.2.7	0	R	1.732	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	1.732	0	0	0	0	×
RF ambient conditions-Noise	E.6.1	3	R	1.732	0	0	0	0	×
RF ambient conditions-reflections	E.6.1	3	R	1.732	0	0	0	0	∞
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	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	0	0	0	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	√3	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	√3	1	1	1.15	1.15	∞
Phantom and tissue parameter	rs								
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	0.23	0.26	1.15	1.30	М
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	М
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	



Page 32 of 51

12. CONDUCTED POWER MEASUREMENT

Mode	Channel	Frequency(MHz)	Peak (dBm)	Gain (dBi)	EIRP (dBm)
	CH0	1928.448	18.15	4.6	22.75
1.9GHz	CH2	1924.992	17.82	4.6	22.42
	CH4	1921.536	17.46	4.6	22.06

Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
	0	2402	1.651
GFSK	39	2441	2.616
	78	2480	1.734
	0	2402	1.584
π /4-DQPSK	39	2441	2.580
	78	2480	2.171
	0	2402	2.020
8-DPSK	39	2441	3.056
	78	2480	2.526

Bluetooth_V5.0(BLE)

Bidetootii_45.0(BEE)										
Modulation	Channel	Frequency(MHz)	Peak Power (dBm)							
	0	2402	0.839							
LE1M_GFSK	19	2440	0.940							
	39	2480	-0.406							
	0	2402	0.482							
LE2M_GFSK	19	2440	0.735							
	39	2480	-0.604							



Page 33 of 51

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 SAR was performed with the device 0mm from the phantom.

13.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is \leq 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. 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)]
- 4. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result.



Page 34 of 51

13.1.3. Test Result

SAR MEASUREMENT

Depth of Liquid (cm):>15

Product: Portable DECT Phone

Test Mode: 1.9GHz with GFSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	GFSK	CH2	1924.992	-0.11	0.031	22.80	22.42	1.091	0.034	1.6
Left Tilt	GFSK	CH2	1924.992	0.05	0.031	22.80	22.42	1.091	0.034	1.6
Right Cheek	GFSK	CH2	1924.992	0.23	0.029	22.80	22.42	1.091	0.032	1.6
Right Tilt	GFSK	CH2	1924.992	-0.04	0.030	22.80	22.42	1.091	0.033	1.6
Body back with belt clip and earphone	GFSK	CH2	1924.992	0.10	0.007	22.80	22.42	1.091	0.008	1.6
Body back	GFSK	CH2	1924.992	-0.06	0.027	22.80	22.42	1.091	0.029	1.6
Body front	GFSK	CH2	1924.992	-0.13	0.070	22.80	22.42	1.091	0.076	1.6
Body front with earphone	GFSK	CH2	1924.992	0.16	0.067	22.80	22.42	1.091	0.073	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 of all above table is 0mm.



Page 35 of 51

1. The EUT no changes in PCB layout and antenna, and added a battery relative to the original project.

2. Laboratory added test data under the worst case of the head and body based on original project as follows. If the SAR value is greater than the value of the original battery, the new battery must be tested all the position. If not, the laboratory just tests under the worst position, including the head and body.

SAR MEASUREMENT

Depth of Liquid (cm):>15

Product: Portable DECT Phone

Test Mode: 1.9GHz with GFSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	GFSK	CH2	1924.992	-0.26	0.022	22.80	22.42	1.091	0.024	1.6
Body front	GFSK	CH2	1924.992	-0.19	0.060	22.80	22.42	1.091	0.065	1.6



Page 36 of 51

	NO	Simultaneous state	Portable Handset				
		Simultaneous state	Head	Body-worn	Hotspot		
	1	1.9GHz+Bluetooth(data)	Yes	Yes	ı		

NOTE:

- 1. Simultaneous with every transmitter must be the same test position.
- 2. KDB 447498 D01, BT SAR is excluded as below table.
- 3. 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 0mm for body-worn SAR.
- 4. 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 \leq 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.

- 5. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 6. 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.
- 7. 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.

Estimat	ted SAR		luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW	Distance (min)	(VV/Kg)
DT	Head	4	2.512	0	0.105
ВТ	Body	4	2.512	0	0.105



Page 37 of 51

Sum of the SAR for 1.9GHz & BT:

RF Exposure Test		Simultaneous Transmission Scenario		Σ1-g SAR	SPLSR
Conditions	Position	1.9GHz	Bluetooth	(W/kg)	(Yes/No)
Head	Left Touch	0.034	0.105	0.139	No
	Left Tilt	0.034	0.105	0.139	No
	Right Touch	0.032	0.105	0.137	No
	Right Tilt	0.033	0.105	0.138	No
Body-worn	Rear with belt clip and earphone	0.008	0.105	0.113	No
	Rear	0.029	0.105	0.134	No
	Front	0.076	0.105	0.181	No
	Front with earphone	0.073	0.105	0.178	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 "



Page 38 of 51

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Jun. 03, 2024

System Check Head 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08 Frequency: 1900 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 39.17$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

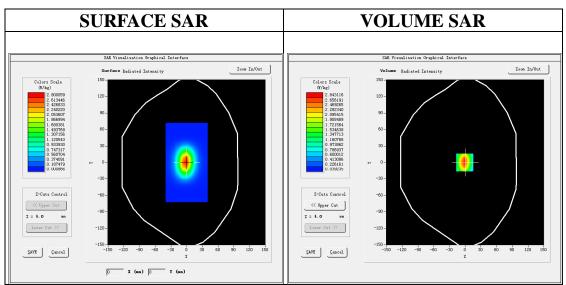
Probe: SSE2; Calibrated: 2024-04-30; Serial No.: 2023-EPGO-414

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

· Phantom: SAM twin phantom

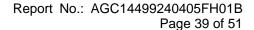
Measurement SW: OpenSAR V4_02_32

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

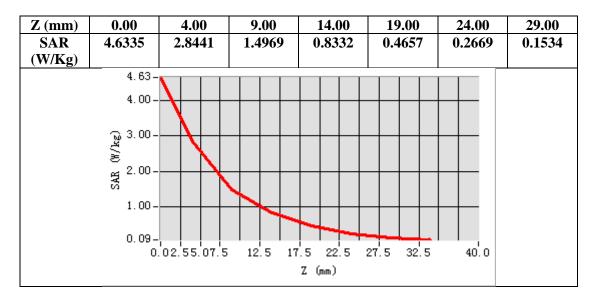


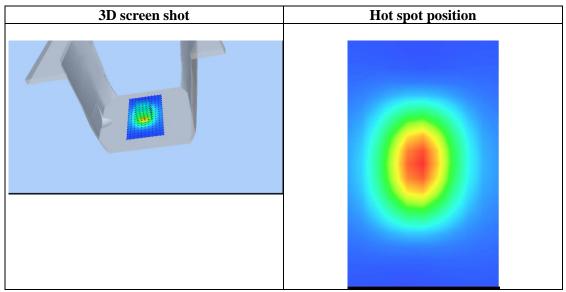
Maximum location: X=-1.00, Y=0.00 SAR Peak: 4.62 W/kg

SAR 10g (W/Kg)	1.343268
SAR 1g (W/Kg)	2.672156











Date: Jun. 22, 2025

Page 40 of 51

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=2.25 Frequency: 1900 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.53$; $\rho = 1000$ kg/m³; Phantom section: Flat Section: Input Power=18dBm

SATIMO Configuration:

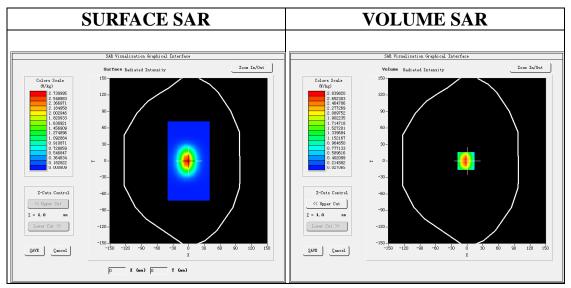
Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

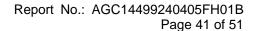
Measurement SW: OpenSAR V4 02 32

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

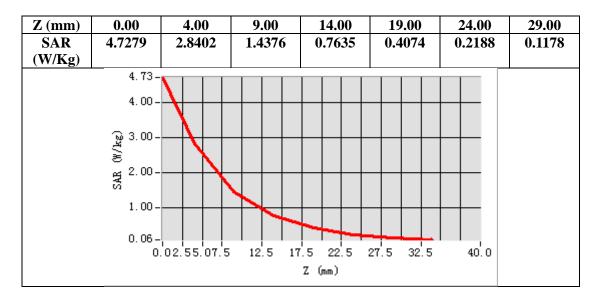


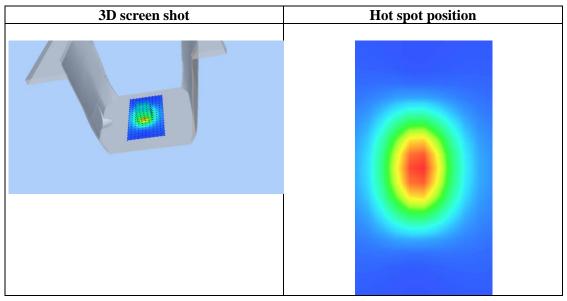
Maximum location: X=-2.00, Y=0.00 SAR Peak: 4.72 W/kg

SAR 10g (W/Kg) 1.295670 SAR 1g (W/Kg) 2.672912











Page 42 of 51

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Jun. 03, 2024

1.9GHz Mid-Touch- Left

DUT: Portable DECT Phone; Type: W610D

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=2.08;

Frequency: 1924.992 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.38 \text{ mho/m}$; $\epsilon r = 38.42$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

SATIMO Configuration:

• Probe: SSE2; Calibrated: 2024-04-30; Serial No.: 2023-EPGO-414

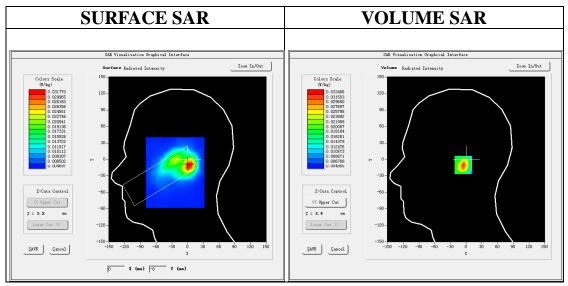
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/1.9GHz Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/1.9GHz Mid-Touch-Left/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	Left head	
Device Position	Cheek	
Band	1.9GHz	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	

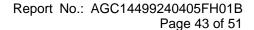


Maximum location: X=3.00, Y=-10.00 SAR Peak: 0.05 W/kg

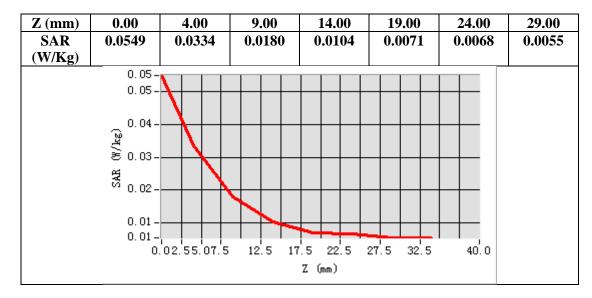
SAR 10g (W/Kg)	0.016475
SAR 1g (W/Kg)	0.031334

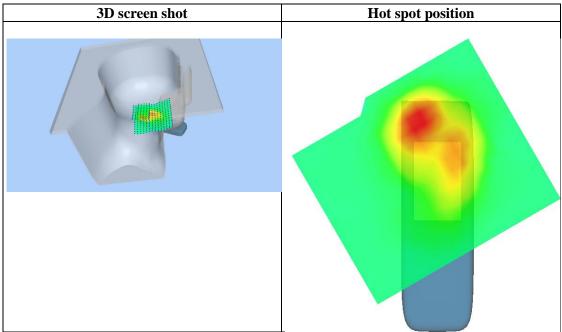
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Page 44 of 51

Test Laboratory: AGC Lab Date: Jun. 03, 2024

1.9GHz Mid-Body -Front

DUT: Portable DECT Phone; Type: W610D

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=2.08;

Frequency: 1924.992 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.38 \text{ mho/m}$; $\epsilon = 38.42$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

SATIMO Configuration:

Probe: SSE2; Calibrated: 2024-04-30; Serial No.: 2023-EPGO-414

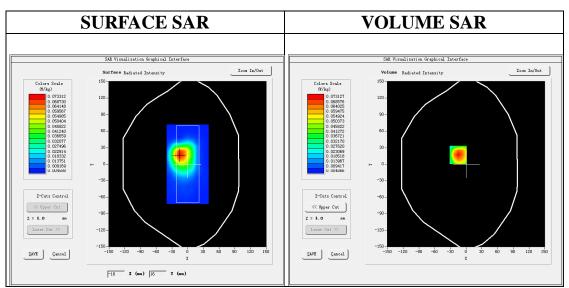
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/1.9GHz Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/1.9GHz Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

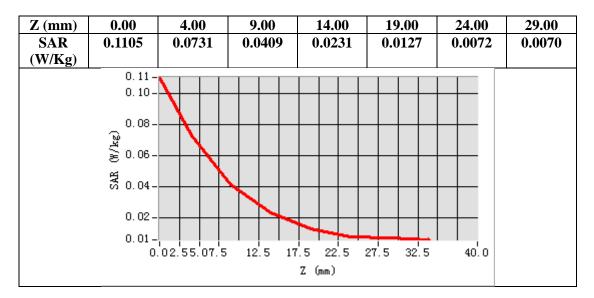
Area Scan surf_sam_plan.txt, h= 5.00 mm		
ZoomScan 5x5x7,dx=8mm dy=8mm dz=5mm,Com		
Phantom	Validation plane	
Device Position	Body Front	
Band	1.9GHz	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	

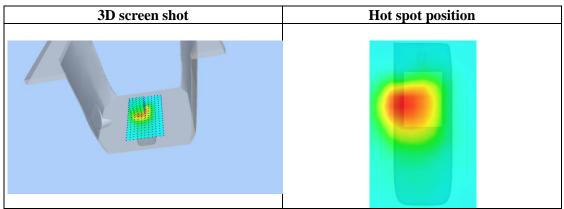


Maximum location: X=-15.00, Y=17.00 SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.038515	
SAR 1g (W/Kg)	0.069907	









Page 46 of 51

Test Laboratory: AGC Lab Date: Jun. 22, 2025

1.9GHz Mid-Touch- Left

DUT: Portable DECT Phone; Type: W610D

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=2.25;

Frequency: 1924.992 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon = 38.89$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

SATIMO Configuration:

Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414

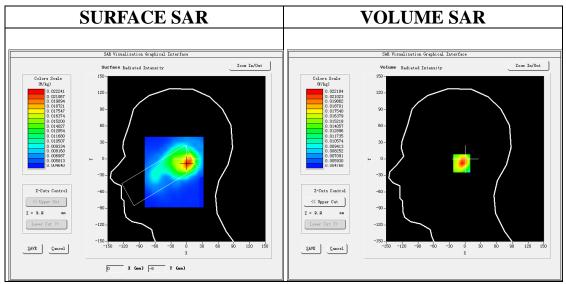
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

• Measurement SW: OpenSAR V4_02_32

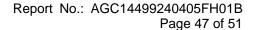
Configuration/1.9GHz Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm **Configuration/1.9GHz Mid-Touch-Left/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	1.9GHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

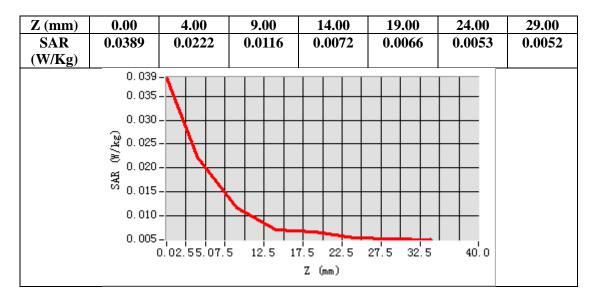


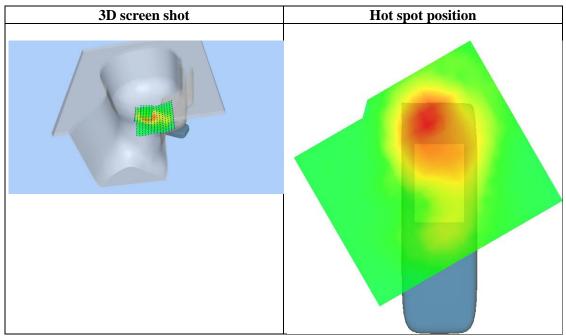
Maximum location: X=1.00, Y=-8.00 SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.012266
SAR 1g (W/Kg)	0.021769











Page 48 of 51

Test Laboratory: AGC Lab Date: Jun. 22, 2025

1.9GHz Mid-Body -Front

DUT: Portable DECT Phone; Type: W610D

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=2.25;

Frequency: 1924.992 MHz; Medium parameters used: f = 1800 MHz; $\sigma = 1.39 \text{ mho/m}$; $\epsilon = 38.89$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

SATIMO Configuration:

Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414

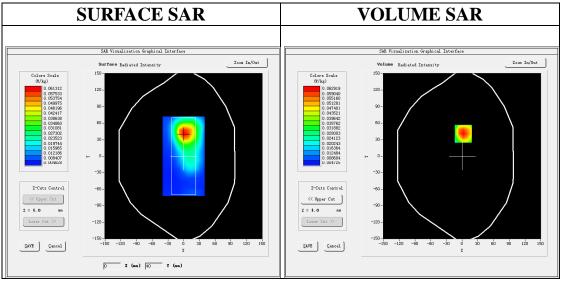
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

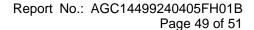
Configuration/1.9GHz Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/1.9GHz Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan surf_sam_plan.txt, h= 5.00 mm		
ZoomScan 5x5x7,dx=8mm dy=8mm dz=5mm,Com		
Phantom	Validation plane	
Device Position	Body Front	
Band	1.9GHz	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	

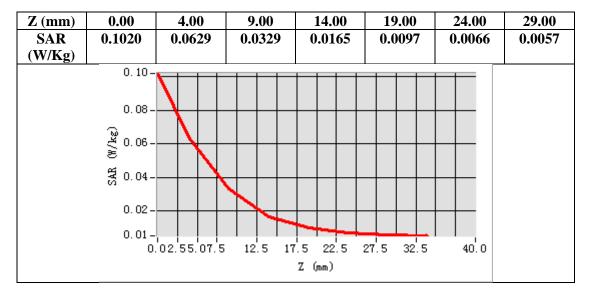


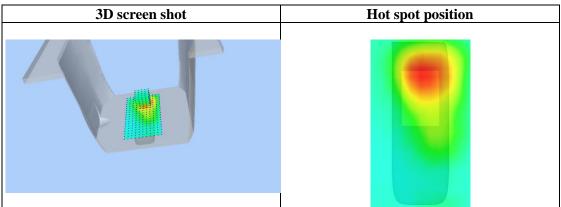
Maximum location: X=2.00, Y=41.00 SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.031641	
SAR 1g (W/Kg)	0.060223	











Page 50 of 51

APPENDIX C. TEST SETUP PHOTOGRAPHS

Refer to Attached files.

APPENDIX D. CALIBRATION DATA

Refer to Attached files.



Page 51 of 51

Conditions of Issuance of Test Reports

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

----END OF REPORT----