

Address:

Approved By:

SAR Test Report

For

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD **Applicant Name:**

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN. Address:

518XXX China

EUT Name: Tablet **Brand Name:** OUKITEL Model Number: OT6

Series Model Number: Refer to section 2

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

BTF231127R00501 Report Number:

47 CFR Part 2.1093 IEEE1528-2013 IEEE C95.1-2019

KDB 447498 D04 KDB 865664 D01 KDB 865664 D02

Test Standards: KDB 941225 D01 KDB 941225 D05 KDB 941225 D06

KDB 248227 D01 KDB 616217 D04 KDB 648474 D04

KDB 690783 D01

FCC ID: 2ANMU-OT6

Test Conclusion: Pass

Test Date: 2023-12-14 2023-12-15 Date of Issue:

Amenda Zhong Prepared By:

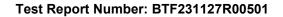
Amenda Zhong / Project 🗜

2023-12-15 Date:

Ryan.CJ / EMC Manager

2023-12-15 Date:

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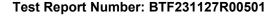


Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-12-15	Original		
		The second secon		
Note:	Once the revision has	Once the revision has been made, then previous versions reports are invalid.		



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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	

1.2 Identification of the Responsible Testing Location

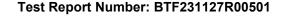
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
FCC Registration Number	518915		
Designation Number	CN1330		

1.3 Laboratory Condition

Ambient Temperature:	21℃ to 25℃
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.2 Manufacturer Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.3 Factory Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
I AUULDES.	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.4 General Description of Equipment under Test (EUT)

EUT Name	Tablet
Under Test Model Name	OT6
Series Model Name OT6 S, OT6 Pro, OT6 Ultra, OT6 Kids	
Description of Model name differentiation	Only the model name is different, others are the same.
Sample No.	BTFSN231127003-1/5

2.5 Equipment under Test Ancillary Equipment

	Rechargeable Battery		
Ancillary Equipment 1	Capacity	5150mAh	
	Rated Voltage	3.8V	

2.6 Technical Information

	Nistración de la Nice de la constitución de la cons	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)	
Network and Wireless connectivity	5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)		
	Connectivity	Bluetooth (EDR+BLE)	





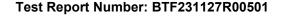
The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WLAN, Bluetooth		
	802.11b/g/n(HT20)	2412 ~ 24	62 MHz
	802.11n(HT40)	2422 ~ 2452 MHz	
Frequency Range	802.11a /802.11n(HT20/HT40) /802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz	
		5725 ~ 58	5725 ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WLAN: PIFA Antenna BT: PIFA Antenna Not Support Not Support General Population/Uncontrolled exposure		
Hotspot Function			
Power Reduction			
Exposure Category			
EUT Stage	Portable Device		
Draduet	Туре		
Product	☐ Production unit ☐ Identical prototype		⊠ Identical prototype

Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEEE1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB 447498 D04	Interim General RF Exposure Guidance v01
5	KDB 865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB 865664 D02	RF Exposure Reporting v01r02
9	KDB 941225 D06	Hotspot Mode v02r01
10	KDB 248227 D01	802.11 Wi-Fi SAR v02r02
11	KDB 616217 D04	SAR for laptop and tablets v01r02
12	KDB 648474 D04	Handset SAR v01r03
13	KDB 690783 D01	SAR Listings on Grant v01r03





3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

	SAR Value (W/Kg)				
Body Position	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure			
Whole-Body SAR (averaged over the entire body)	0.08	0.4			
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0			
SAR for hands, wrists, feet and ankles averaged over any 10 grams of tissue)	4.0	20.0			

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment- related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

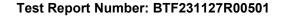
3.3 Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:

<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
	WLAN 2.4 GHz	0.798	DTS	
Body	Bluetooth	0.384	DSS	0.798
1-g SAR (0 mm Gap)	WLAN 5.2 GHz	0.733	NII	0.796
	WLAN 5.8 GHz	0.612	INII	

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.





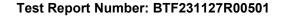
3.4 Test Uncertainty

3.4.1 Measurement uncertainly evaluation for SAR test

Measurement uncertainly evaluation for SAR test (300MHz to 6GHz)

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	(1g)	(10g)	1g Ui (+- %)	10 g Ui (+-%)	Vi veff
		Measur	ement Sys					
Probe calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	√3	√0.5	√0.5	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	√3	√0.5	√0.5	2.41	2.41	∞
Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1.0	R	√3	1	1	0.58	0.58	∞
Modulation response	3.0	R	√3	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	1	1	0.00	0.00	∞
Integration Time	1.4	R	√3	1	1	0.81	0.81	∞
RF ambient Conditions - Noise	3.0	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
		Test sa	mple Rela	ted				
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device Holder Uncertainty	3.0	N	1	1	1	3.00	3.00	7
Output power Variation - SAR drift measurement	5.0	R	√3	1	1	2.89	2.89	∞
SAR scaling	2.0	R	√3	1	1	1.15	1.15	∞
	Ph	antom and	Tissue Pa	arameters		<u>. </u>		
Phantom Shell Uncertainty - Shape,Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity measurement	4.0	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		k				20.95	20.69	

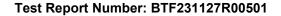
^{*} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





Measurement uncertainly evaluation for system check

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10 g)	1g Ui (+- %)	10 g Ui (+-%)	Vi veff
		Measure	ment Sys	tem				
Probe calibration	5.8	N	1	1	1	5.80	5.80	00
Axial Isotropy	3.5	R	√3	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	√3	0	0	0.00	0.00	∞
Boundary effect	1	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1	R	√3	1	1	0.58	0.58	∞
Modulation response	0	N	√3	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	0	0	0.00	0.00	∞0
Integration Time	1.4	R	√3	0	0	0.00	0.00	∞
RF ambient Conditions - Noise	3	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
			Dipole	•				•
Deviation of experimental source from numerical source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR driftmeasurement	0.5	R	√3	1	1	0.29	0.29	∞
Dipole Axis to Liquid Dist.	2.0	R	√3	1	1	1.15	1.15	∞
	Pha	ntom and	Tissue Pa	arameters				
Phantom Shell Uncertainty - Shape,Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞0
Liquid conductivity measurement	4	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		k				20.32	20.06	





4. Measurement System

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an 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 general population/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 a given 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 measurement can be related to the electrical field in the tissue by

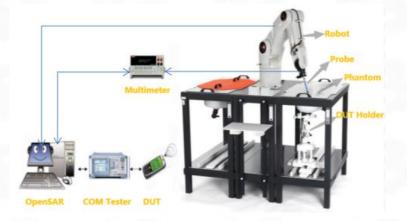
$$SAR = \frac{\sigma E^2}{\rho}$$

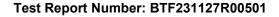
Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 MVG SAR System

4.2.1 SAR system diagram







4.2.2 Robot



A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System

- · It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
- · Must be able to set the probe orthogonal of the surface of the phantom (±30°).
- · Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

4.2.3 E-Field Probe

For the measurements, the Specific Dosimetric SSE2 E-Field Probe with following specifications is used:

- Dynamic range: 0.01-100 W/kg
- Tip diameter: 2mm for SSE2
- Distance between probe tip and sensor centre: 1mm for SSE2
- Distance between sensor centre and the inner phantom surface: 2mm for f>=4GHz.
- Probe linearity: <0.25dB.
- Axial Isotropy: <0.25dB.
- Spherical Isotropy: <0.50dB.
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and surface normal line: less than 20°.



4.2.4 Phantoms

SAM Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The probe scanning of the E-Field is done in the 2 halves of the normalized head. The normalized shape of the phantom corresponds to the dimensions of 90% of an adult head size. It enables the dosimetric evaluation of left and right-hand phone usage and includes an additional flat phantom part for the simplified body performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.







The thickness of the phantom amounts to 2 mm±0.2 mm. The materials for the phantom do not affect the radiation of the device under test (DUT): ɛr' <5 The head is filled with tissue simulating liquid. The hand do not have to be modeled.

SAM Phantom

	TWIN SAM phant	om	
	Mechanical	Electric	al
Overall thickness	2±0.2 mm(except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27	L	
Material	Fiberglas	ss based	

ELLIPTICAL Phantom

The phantom is for Body performance check filled with tissue-equivalent liquid to a depth of at least 150 mm, whose shell material is resistant to damage or reaction with tissue-equivalent liquid chemicals.



ELLI Phantom

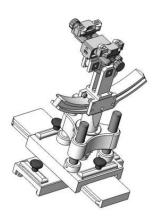
The shape of the phantom is an ellipse with length 600mm \pm 5mm and width 400mm \pm 5mm. The phantom shell is made of low-loss and low-permittivity material, having loss tangent $\tan\delta \le 0.05$ and relative permittivity: $\epsilon r' \le 5$ for $f \le 3$ GHz $3 \le \epsilon r' \le 5$ for f > 3 GHz The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of \pm 0.2 mm.

Technical & mechanical characteristics

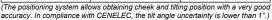




4.2.5 Device Holder



System	Permittivity	Loss
Material	Permittivity	tangent
Delrin	3.7	0.005

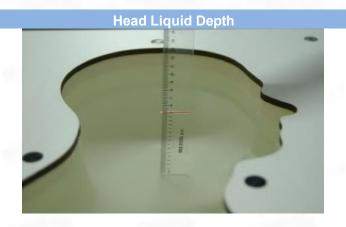


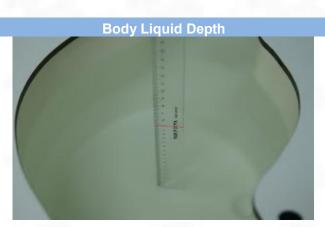


System	Permittivity	Loss
Material	r Gillittivity	tangent
PMMA	2.9	0.028

4.2.6 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 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.









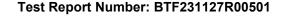
The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

			Head (Referen	ce IEEE1528)				
Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	σ (S/m)	3
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency	Water		Hexyl Carbitol		Triton	X-100	Conductivity	Permittivity
(MHz)	(%)		(%)		(%	6)	σ (S/m)	3
5200	62.52		17.24		17.24		4.66	36.0
5800	62.52		17.24		17.	24	5.27	35.3
		Во	dy (From instrun	nent manufact	urer)			
Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	σ (S/m)	3
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Fraguency/MHz)	Water		DGBE		Salt		Conductivity	Permittivity
Frequency(MHz)	vvaler		(%)		(%	6)	σ (S/m)	3
5200	78.60		21.40		/	1		49.00
5800	78.50		21.40		0.1		6.00	48.20

5. System Verification

5.1 Purpose of System Check

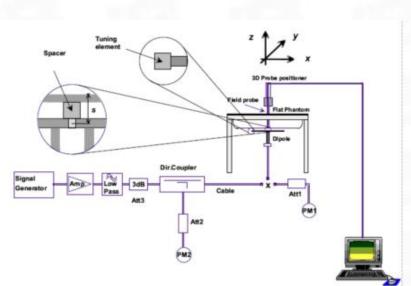
The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. The setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.





5.2 System Check Setup





6. TEST POSITION CONFIGURATIONS

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

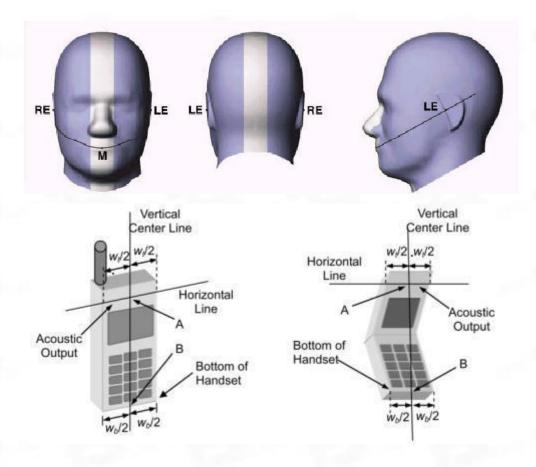
6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

- (a) The vertical center line passes through two points on the front side of the handset the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical center line and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) 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 center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.





6.1.2 Two Imaginary Lines on the Handset

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece 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 three 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.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the 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.

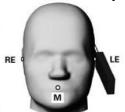




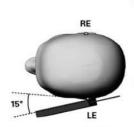


6.1.3 Titled Position

- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device 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 contact with the ear is lost.





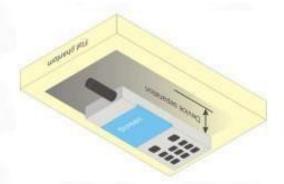


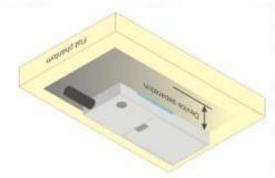
6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.



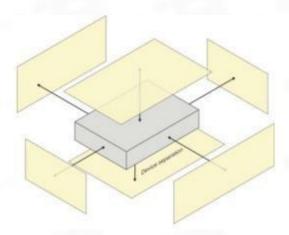






6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

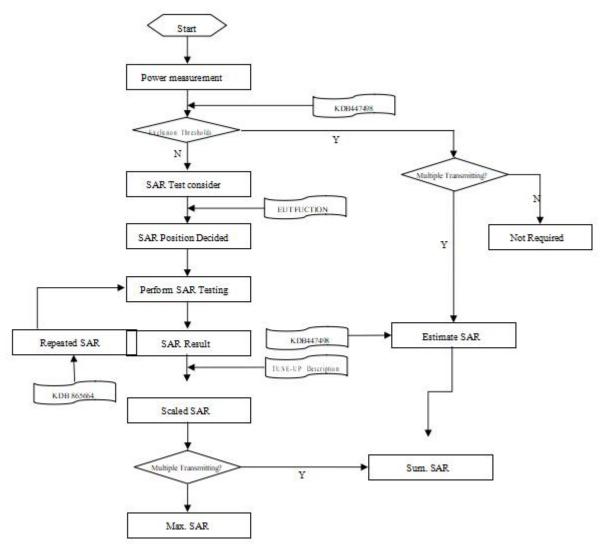
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at \leq 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

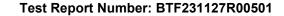


7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR







7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz	
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 normal at the measurement locati		surface	30°±1°	20°±1°	
			≤ 2 GHz: ≤ 15 mm	3–4 GHz: ≤ 12 mm	
			2 – 3 GHz: ≤ 12 mm	4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resol	ution: Δx Area , Δ <u>y</u>	y Area	When the x or y dimension of the test device, in the m above, the measurement resolution must be ≤ the cor least one measurement point on the test device.		
			≤ 2 GHz: ≤ 8 mm	3–4 GHz: ≤ 5 mm*	
Maximum zoom scan spatial resc	olution: Δx Zoom ,	Δy Zoom	2 –3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm*	
	uniform grid: Δz Zoom (n)			3–4 GHz: ≤ 4 mm	
			≤ 5 mm	4–5 GHz: ≤ 3 mm	
				5–6 GHz: ≤ 2 mm	
		Δz Zoom (1):		3–4 GHz: ≤ 3 mm	
		between 1st		4–5 GHz: ≤ 2.5 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	two points closest to phantom graded grid two points closest to phantom surface	closest to phantom	≤ 4 mm	5–6 GHz: ≤ 2 mm	
	Δz Zoom (n>1): between subsequent points		≤ 1.5·Δz Zoom (n-1)		
				3–4 GHz: ≥ 28 mm	
Minimum zoom scan volume	x, y, z		≥30 mm	4–5 GHz: ≥ 25 mm	
				5–6 GHz: ≥ 22 mm	

Note:

447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

^{1.} δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details.

^{2. *}When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB



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7.3 Measurement Procedure

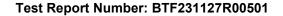
The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.





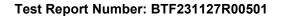
8. Conducted RF Output Power

8.1 Wi-Fi

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
		1	2412	14.17	14.50	No
	802.11b	6	2437	14.62	15.00	Yes
		11	2462	14.16	14.50	No
		1	2412	15.11	15.50	No
	802.11g	6	2437	15.71	16.00	No
2.4		11	2462	15.75	16.00	No
(2.4~2.4835)	802.11n(HT20)	1	2412	15.74	16.00	No
		6	2437	16.35	16.50	No
		11	2462	16.22	16.50	No
		3	2422	15.84	16.00	No
	802.11n(HT40)	6	2437	16.32	16.50	No
		9	2452	16.21	16.50	No

Note: SAR is not required for the following 2.4 GHz OFDM conditions as 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.

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require
		36	5180	16.76	17.00	No
	802.11a	40	5200	16.70	17.00	No
		48	5240	17.14	17.50	No
		36	5180	16.98	17.00	No
	802.11n(HT20)	40	5200	16.88	17.00	No
		48	5240	17.70	18.00	Yes
U-NII-1		36	5180	16.96	17.00	No
(5.150~5.250)	802.11ac(VHT20)	40	5200	16.99	17.00	No
		48	5240	17.46	17.50	No
_#	000 44 (UT40)	38	5190	16.80	17.00	No
	802.11n(HT40)	46	5230	16.90	17.00	No
	802.11ac(VHT40)	38	5190	16.91	17.00	No
		46	5230	17.22	17.50	No
	802.11ac(VHT80)	42	5210	17.51	18.00	No
Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require
	802.11a	149	5745	14.70	15.00	No
		157	5785	14.59	15.00	No
		165	5825	15.06	15.50	No
		149	5745	14.64	15.00	No
	802.11n(HT20)	157	5785	15.00	15.00	No
		165	5825	15.59	16.00	No
U-NII-3		149	5745	15.33	15.50	No
(5.725~5.850)	802.11ac(VHT20)	157	5785	15.18	15.50	No
		165	5825	15.06	15.50	No
	000 44=(UT40)	151	5755	15.14	15.50	No
	802.11n(HT40)	159	5795	15.48	15.50	No
	000 44 - () (UT40)	151	5755	14.76	15.00	No
	802.11ac(VHT40)	159	5795	14.59	15.00	No
	802.11ac(VHT80)	155	5775	15.67	16.00	Yes





8.2 Bluetooth

			Average Conducted Output Power (dBm)				
	Mode	Maximum Tune-up(dBm)	0	39	78		
EDR			2402MHz	2441MHz	2480MHz		
	GFSK	9.00	7.51	8.45	8.52		
	π/4QPSK	8.00	7.06	7.94	7.94		
	8DPSK	8.00	7.10	7.97	7.98		
			Average Conducted Output Power (dBm)				
	Mode	Maximum Tune-up(dBm)	0	20	39		
BLE			2402MHz	2440MHz	2480MHz		
	1Mbps	4.00	3.51	3.16	3.47		
	2Mbps 4.00		3.44	3.85	3.45		

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR	RF exposure evaluation required
78	2.480	9.00	7.94	0	2.72	Yes

Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances ≤ 40 cm are determined by:

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^{x} & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

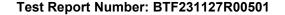
$$P_{\text{th}} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 2060 & 1.5 \text{ GHz} \end{cases}$$
(B. 1)

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).

- *When the minimum test separation distance is < 5 mm, a distance of 0 mm is applied to determine estimated SAR.

 2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.

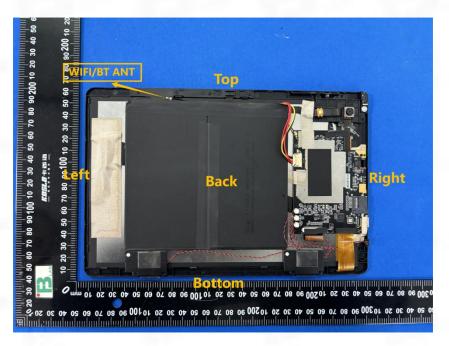
 3. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.





9. Test Exclusion Consideration

Antenna information:



	WLAN/BT Antenna	WLAN/BT TX/RX						
Note:								
1.	1. KDB 447498 D04v01, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm.							
2.	 KDB 616217 D04 SAR for laptop and tablets v01r02, it doesn't require SAR evaluation for the front surface of a tablet. 							
3.	Per KDB648474 D04,10-g extremity SAR is not required when Body-Wor	n mode 1-g reported SAR<1.2W/Kg.						

	Distance of The Antenna to the EUT surface and edge (mm)										
Antenna Front Side (mm) Back Side (mm) Left Edge (mm) Right Edge (mm) Top Edge (mm) Bottom Edge (mm)											
Wifi/BT	<25	<25	173	70	<25	157					
			Positions for SAR tests								
Antenna Front Side Back Side Left Edge Right Edge Top Edge Bottom Edg (mm) (mm) (mm) (mm) (mm)											
Wifi/BT	No	Yes	No	No	Yes	No					

9.1 SAR Test Exclusion Consideration Table

Per KDB 447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following format to determine simultaneous transmission SAR test exclusion:

(max.power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)} / x]$ W/kg for test separation distances ≤ 50 mm;

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

0.4 W/Kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm



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10. Test Result

Body 1g SAR Data

Band	Mode	Test Position with 0 mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Meas. No.
2.4G	802.11b	Back	6	2437	14.62	15.00	2.370	0.731	1.091	0.798	1#
2.46	802.11b	Тор	6	2437	14.62	15.00	-2.240	0.398	1.091	0.434	1
5.00	802.11n(HT20)	Back	48	5240	17.70	18.00	-2.280	0.684	1.072	0.733	2#
5.2G		Тор	48	5240	17.70	18.00	0.390	0.374	1.072	0.401	1
F 00	000 44()/(IT00)	Back	155	5775	15.67	16.00	4.470	0.567	1.079	0.612	3#
5.8G	802.11ac(VHT80)	Тор	155	5775	15.67	16.00	3.010	0.298	1.079	0.322	1
Bluetooth	Divistanti	Back	79	2480	8.52	9.00	1.830	0.344	1.117	0.384	4#
	Bluetooth	Тор	79	2480	8.52	9.00	0.970	0.186	1.117	0.208	/

Note

- . Per KDB 447498 D04 v01, for each exposure position, if the highest output power channel Reported SAR < 0.8W/kg, other channels SAR testing is not necessary.
- 2. Per KDB 447498 D04 v01, body use is evaluated with the device positioned at 0mm from a flat phantom respectively filled with body tissue-equivalent medium.
- 3. Per KDB 616217 D04 where SAR test considerations for tablets are based on a composite test separation distance of 0 mm from the back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices.
- Per KDB 447498 D04 v01, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) Ave.power power (dBm))/10], where tune-up limit is the
 maximum rated power among all production units.
- Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor
- 4. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).

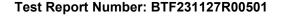
11. SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

- 1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
- 2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
- 3. 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, perform a second repeated measurement.
- 4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is 0.731 < 0.80 W/kg, repeated measurement is not required.



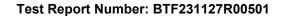


12. Simultaneous Transmission

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. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

12.1 Simultaneous Transmission Mode Considerations

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. The device has 1 Tx antennas, Wifi/BT antenna supports 2.4G/5G Wi-Fi & BT. So we dot not considering simultaneous transmission.



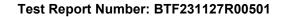


13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	04/22 EPGO365	2023/02/06	2024/02/05
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2023/11/16	2024/11/15
Videband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2023/11/16	2024/11/15
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2023/11/16	2024/11/15
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2023/03/24	2024/03/23
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2023/03/24	2024/03/23
10dB Attenuator	MIDWEST MICROWAVE	263-10dB	1	2023/03/24	2024/03/23
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	2023/03/24	2024/03/23
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2023/02/06	2024/02/05
5200MHz-5800MHz Validation Dipole	MVG	SID5000	07/22 DIP5G000-670	2023/02/06	2024/02/05
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	1	1
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2023/11/16	2024/11/15
Thermometer	Riters	DT-232	21A11	2023/03/24	2024/03/23
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	1	1
SAM Phantom	MVG	SAM	07/22 SAM149	1	1
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	1	1
Mechanical Calibration Kit	PNA	1	I	1	1
Open SAR test software	MVG	1	V5.3.5	,	1

Note: For dipole antennas, BTF has adopted 3 years as calibration intervals, and 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 in within 20% of calibrated measurement.
- ${\bf 4.}\,\,{\rm Impedance}\,\,({\rm real}\,\,{\rm or}\,\,{\rm imaginary}\,\,{\rm parts})\,{\rm in}\,\,{\rm within}\,\,{\rm 5}\,\,{\rm Ohms}\,\,{\rm of}\,\,{\rm calibrated}\,\,{\rm measurement}.$





ANNEX A Simulating Liquid Verification Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

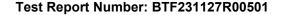
	Dielectric performance of tissue simulating liquid												
Frequency	εr		σ(s/m)		Delta	Delta	Limit	Temp	Data				
(MHz)	Target	Measured	Target	Measured	(εr)	(σ)	Limit	(℃)	Date				
2450	39.20	41.39	1.80	1.81	5.59%	0.56%	±10%	20.0	14/12/2023				
5200	36.00	35.88	4.66	4.70	-0.33%	0.86%	±10%	20.0	14/12/2023				
5800	35.30	32.69	5.27	5.31	-7.39%	0.76%	±10%	20.0	14/12/2023				

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 $^{\circ}$ C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

ANNEX B System Check Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %(for 10 g).

Frequency (MHz)	Input Power (mW)	10g SAR (W/Kg)	1g SAR (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Standard target (1W) (W/Kg)	10g SAR Deviation	1g SAR Deviation
2450	16	0.352	0.793	22.00	49.56	23.86	54.40	-7.80%	-8.89%
5200	13	0.288	1.019	76.92	22.15	78.38	20.38	71.75	8.70%
5800	13	0.277	0.981	76.92	21.31	75.46	19.75	69.01	7.88%





System Performance Check Data (2450 MHz)

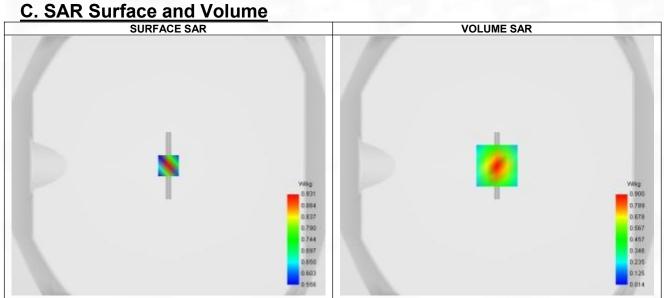
System check at 2450 MHz Date of measurement: 14/12/2023

A. Experimental conditions.

Probe	SN 04/22 EPGO365		
ConvF	2.36		
Area Scan	dx=8mm dy=8mm, Adaptative 1 max		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW2450		
Channels	Middle		
Signal	CW		

B. Permitivity

<u> </u>	
Frequency (MHz)	2450.000
Relative permitivity (real part)	41.390
Relative permitivity (imaginary part)	13.340
Conductivity (S/m)	1.810



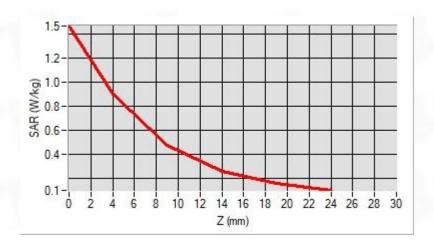
Maximum location: X=0.00, Y=0.00; SAR Peak: 1.47 W/kg

D. SAR 1a & 10a

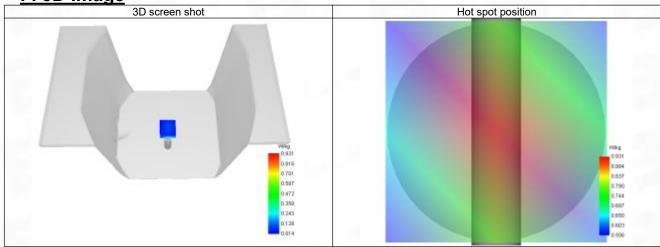
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

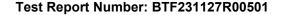
==					
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.466	0.900	0.477	0.261	0.158













System Performance Check Data (5200 MHz)

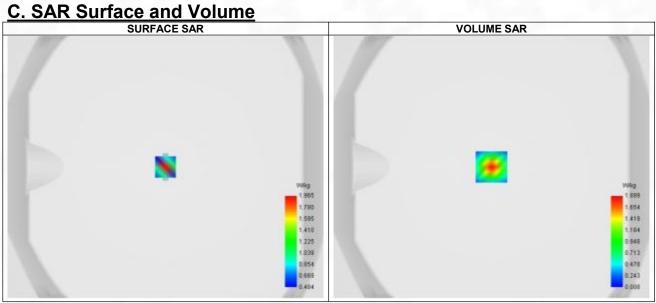
System check at 5200 MHz Date of measurement: 14/12/2023

A. Experimental conditions.

Probe	SN 04/22 EPGO365		
ConvF 2.24			
Area Scan dx=8mm dy=8mm, Adaptative 1 ma			
Zoom Scan 7x7x12,dx=4mm dy=4mm dz=2mi			
Phantom	Validation plane		
Device Position	Dipole		
Band	CW5200		
Channels	Middle		
Signal CW			

B. Permitivity

<u> </u>	
Frequency (MHz)	5200.000
Relative permitivity (real part)	35.880
Relative permitivity (imaginary part)	16.250
Conductivity (S/m)	4.700



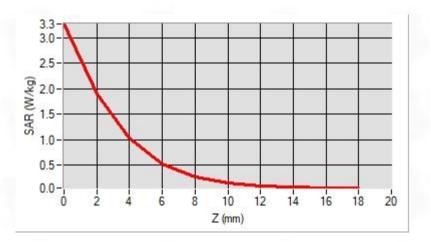
Maximum location: X=0.00, Y=0.00; SAR Peak: 3.38 W/kg

D. SAR 1a & 10a

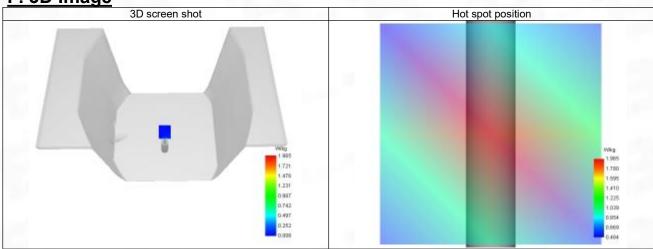
<u> </u>	
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	1.019
Variation (%)	-3.400
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

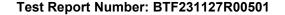
Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	3.268	1.889	1.021	0.523	0.266	0.142	0.085	0.060	0.052





F. 3D Image







System Performance Check Data (5800 MHz)

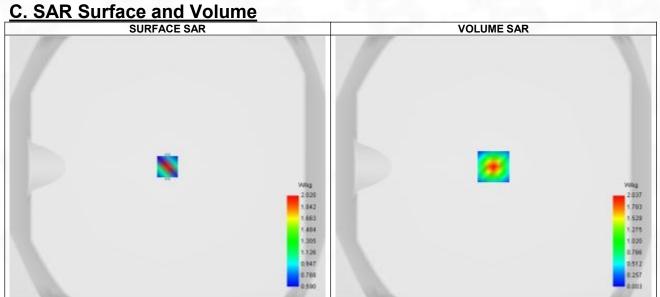
System check at 5800 MHz Date of measurement: 14/12/2023

A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.04
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW

B. Permitivity

Frequency (MHz)	5800.000
Relative permitivity (real part)	32.689
Relative permitivity (imaginary part)	16.480
Conductivity (S/m)	5.310



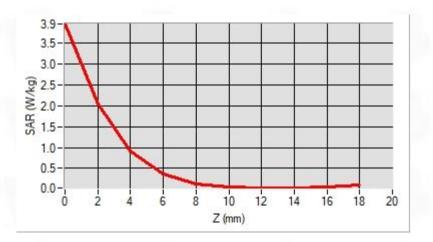
Maximum location: X=0.00, Y=0.00; SAR Peak: 4.17 W/kg

D. SAR 1a & 10a

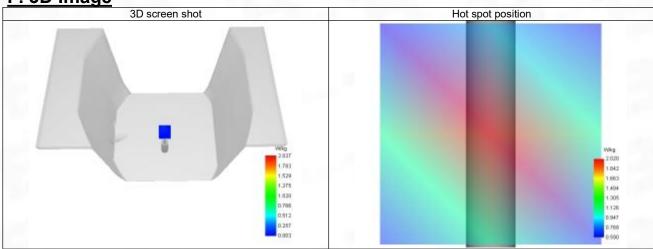
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.981
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	0.00000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.00000

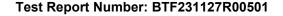
Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	3.948	2.037	0.915	0.361	0.135	0.055	0.033	0.037	0.059





F. 3D Image







ANNEX C Test Data

1-Body with back position in dist. 0mm on Channel 6 in IEEE 802.11b ISM

SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)

Date of measurement: 14/12/2023

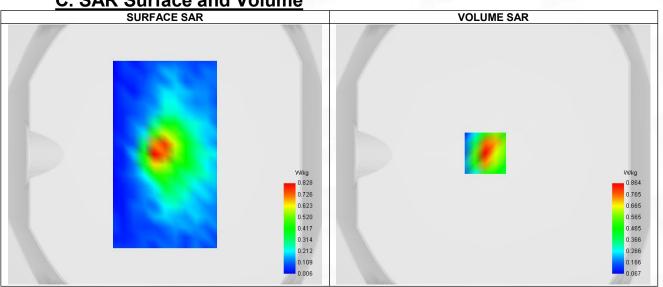
A. Experimental conditions.

Probe	SN 04/22 EPGO365		
ConvF	2.36		
Area Scan	surf_sam_plan.txt		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Body		
Band	IEEE 802.11b ISM		
Channels	Middle (6)		
Signal	IEEE 802.11		

B. Permitivity

Frequency (MHz)	2437.000
Relative permitivity (real part)	41.354
Relative permitivity (imaginary part)	13.341
Conductivity (S/m)	1.801

C. SAR Surface and Volume



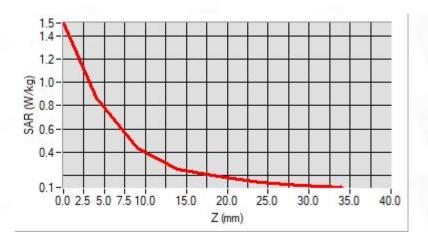
Maximum location: X=-6.00, Y=1.00; SAR Peak: 1.49 W/kg

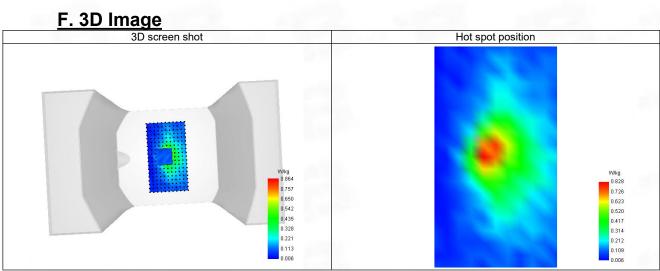
D. SAR 1g & 10g

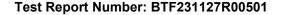
<u>=: 0: :: 19 0: 10 9</u>	
SAR 10g (W/Kg)	0.406
SAR 1g (W/Kg)	0.731
Variation (%)	2.370
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.512	0.864	0.434	0.254	0.190	0.142	0.113











2-Body with back position in dist. 0mm on Channel 48 in IEEE 802.11n U-NII

SAR Measurement at IEEE 802.11n U-NII (Body, Validation Plane)

Date of measurement: 14/12/2023

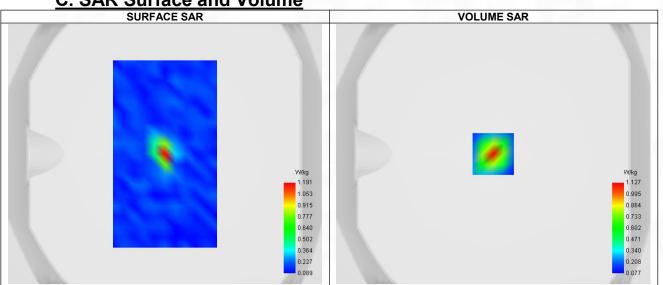
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11n U-NII
Channels	Higher (48)
Signal	IEEE 802.11

B. Permitivity

<u>=11 011111111</u>	
Frequency (MHz)	5240.000
Relative permitivity (real part)	35.342
Relative permitivity (imaginary part)	16.264
Conductivity (S/m)	4.740

C. SAR Surface and Volume



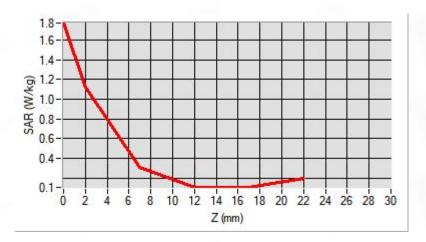
Maximum location: X=0.00, Y=0.00; SAR Peak: 1.83 W/kg

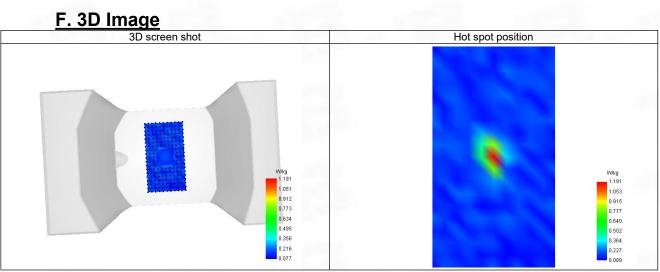
D. SAR 1a & 10a

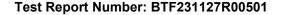
<u> </u>	
SAR 10g (W/Kg)	0.315
SAR 1g (W/Kg)	0.684
Variation (%)	-2.280
Horizontal validation criteria: minimum distance (mm)	0.00000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	1.775	1.127	0.307	0.104	0.106











3-Body with back position in dist. 0mm on Channel 155 in IEEE 802.11ac U-NII

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 14/12/2023

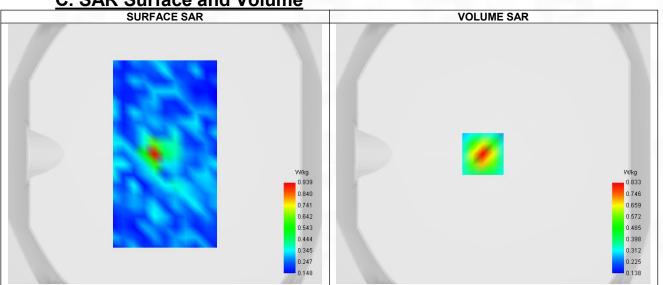
A. Experimental conditions.

Z II ZXPOTITIONIAN CONTANTONION				
Probe	SN 04/22 EPGO365			
ConvF	2.04			
Area Scan	surf_sam_plan.txt			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body			
Band	IEEE 802.11ac U-NII			
Channels	Higher (155)			
Signal	IEEE 802.11			

B. Permitivity

<u>=====================================</u>	
Frequency (MHz)	5775.000
Relative permitivity (real part)	32.714
Relative permitivity (imaginary part)	16.473
Conductivity (S/m)	5.285

C. SAR Surface and Volume



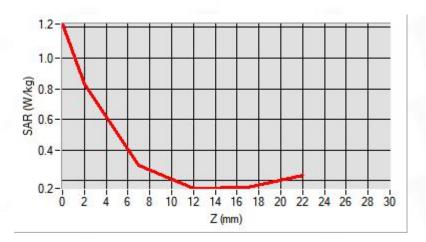
Maximum location: X=-8.00, Y=0.00; SAR Peak: 1.25 W/kg

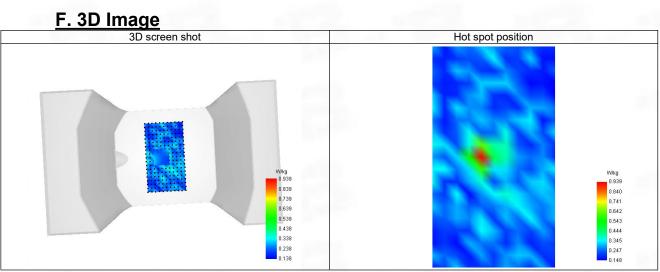
D. SAR 1a & 10a

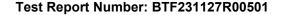
<u> </u>	
SAR 10g (W/Kg)	0.337
SAR 1g (W/Kg)	0.567
Variation (%)	4.470
Horizontal validation criteria: minimum distance (mm)	0.00000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	1.223	0.833	0.304	0.151	0.155











4-Body with back position in dist. 0mm on Channel 78 in Bluetooth

SAR Measurement at Bluetooth (Body, Validation Plane) Date of measurement: 14/12/2023

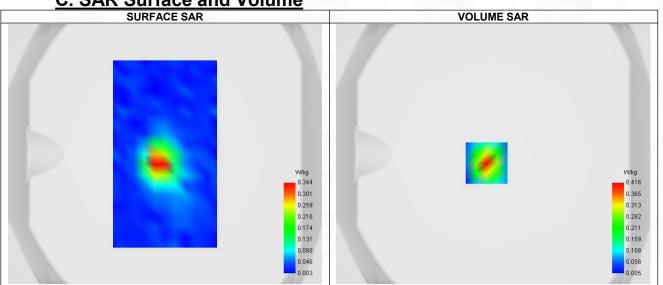
A. Experimental conditions.

<u> </u>				
Probe	SN 04/22 EPGO365			
ConvF	2.36			
Area Scan	surf_sam_plan.txt			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body			
Band	Bluetooth			
Channels	Higher (78)			
Signal	Bluetooth			

B. Permitivity

Frequency (MHz)	2480.000
Relative permitivity (real part)	40.888
Relative permitivity (imaginary part)	13.210
Conductivity (S/m)	1.842

C. SAR Surface and Volume



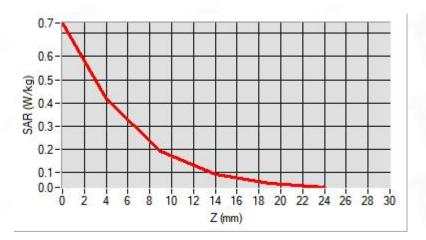
Maximum location: X=-5.00, Y=-7.00; SAR Peak: 0.74 W/kg

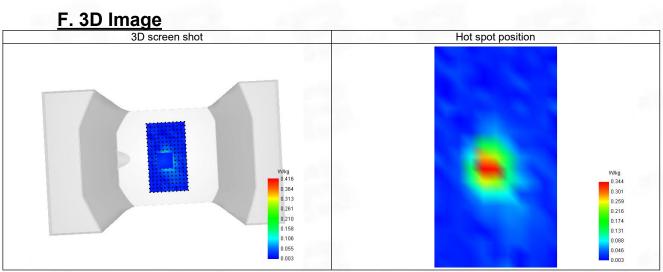
D. SAR 1a & 10a

<u> </u>	
SAR 10g (W/Kg)	0.167
SAR 1g (W/Kg)	0.344
Variation (%)	1.830
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.744	0.416	0.191	0.092	0.053



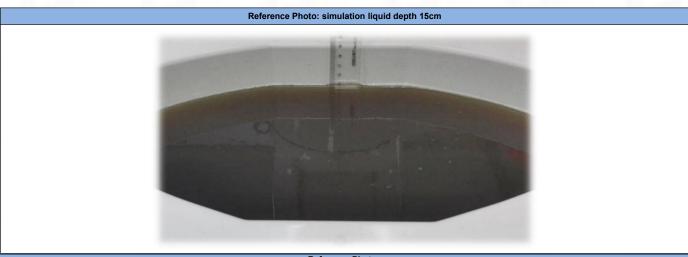








ANNEX D SAR Test Setup Photos



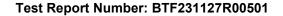


ANNEX E EUT External and Internal Photos

Please refer to RF Report.

ANNEX F Calibration Information

Please refer to the document "Calibration.pdf".







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-- END OF REPORT--