

SAR Test Report

Report No.: AGC00008180402FH01

FCC ID	: TW5GD9003
PRODUCT DESIGNATION	: WiFi Borescope Camera
BRAND NAME	: N/A
MODEL NAME	: GD9003
CLIENT	: Shenzhen Gospell Smarthome Electronic Co., Ltd.
DATE OF ISSUE	: May 11,2018
STANDARD(S)	IEEE Std. 1528:2013 : FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005
REPORT VERSION	: V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	and L ^O Theoreman d ^C	May 11,2018	Valid	Initial Release

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	Test Report Certification				
Applicant Name Shenzhen Gospell Smarthome Electronic Co., Ltd.					
Applicant Address	F/12 F518 Idea Land Baoyuan Road Baoan Central Area Shenzhen City P.R China				
Manufacturer Name	Shenzhen Gospell Smarthome Electronic Co., Ltd.				
Manufacturer Address	East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China				
Product Designation	WiFi Borescope Camera				
Brand Name	N/A				
Model Name	GD9003				
Different Description	N/A				
EUT Voltage	DC 3.7V by battery				
Applicable Standard	IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005				
Test Date	May 11,2018				
Report Template	AGCRT- US -2.4G/SAR (2018-01-01)				

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

First than

Tested By

Eric Zhou(Zhou Yongkang)

May 11,2018

Angola li

Checked By

Angela Li(Li Jiao)

May 11,2018

Authorized By

Forrest Lei(Lei Yonggang) Authorized Officer

May 11,2018

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Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Eroquonov Bond	Highest Reported 10g-Extremity SAR(W/Kg)	SAR Test Limit	
Frequency Band	Body (with 0mm separation)	(W/Kg)	
802.11b	0.451	4.0	
SAR Test Result	PASS	The The Company	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (4.0W/Kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	WiFi Borescope Camera
Test Model	GD9003
Hardware Version	GD9003M02
Software Version	V1.0.4
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal antenna
WIFI	
WIFI Specification	□802.11a ⊠802.11b ⊠802.11g ⊠802.11n(20) ⊠802.11n(40)
Operation Frequency	2412~2462MHz
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Max. conducted Power	11b: 15.72dBm,11g: 10.95dBm,11n(20): 10.66dBm,11n(40): :9.12dBm
Antenna Gain	1.0dBi
Li-ion Battery	
Brand Name	N/A
Model Name	882940
Manufacturer Name	SHENZHEN KAYO BATTERY COMPANY LIMITED
Manufacturer Address	4-5 Floor, 11#Building, Hualian Industrial Park, Huaning Road, Dalang Street, Longhua Town, Shenzhen City, China
Capacitance	1000mAh
Rated Voltage/ Charging Voltage	DC3.7V/ DC4.2V
Note:1. The sample used fo	
Product	Type Image: Second state Image: Second state

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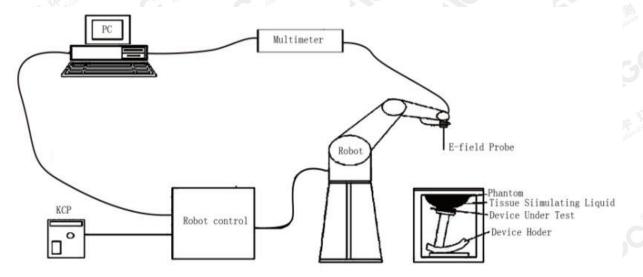


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3. SAR MEASUREMENT SYSTEM

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



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

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

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

Model	SSE2
Manufacture	MVG
Identification No.	SN 08/16 EPGO282
Frequency	0.7GHz-6GHz Linearity:±0.06dB(700MHz-6GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.06dB
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

3.3. Robot

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

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

□ High precision (repeatability 0.02 mm)

- □ High reliability (industrial design)
- □ Jerk-free straight movements
- □ Low ELF interference (the closed metallic
- construction shields against motor control fields)
- 6-axis controller



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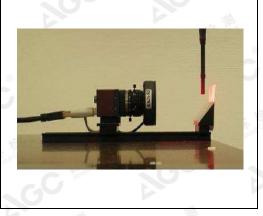
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3.4. Video Positioning System

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

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

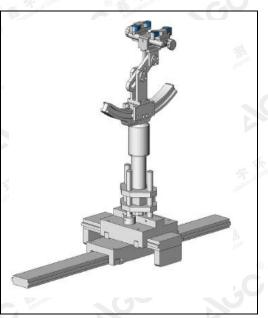


3.5. Device Holder

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

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

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



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3.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with	
2mm shell thickness (except the ear region where shell	
thickness increases to 6mm). It has three measurement	
areas:	
Left head	
Right head	
Flat phantom	
the man the man the second	R
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B Andreas B Andreas Com	

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.

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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

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

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

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

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

Where

SAR Ε σ ρ is the specific absorption rate in watts per kilogram; is the r.m.s. value of the electric field strength in the tissue in volts per meter; is the conductivity of the tissue in siemens per metre; is the density of the tissue in kilograms per cubic metre;

is the heat capacity of the tissue in joules per kilogram and Kelvin;

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

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	\leq 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30°±1°	20° ± 1°
	≤ 2 GHz: ≤ 15 mm 2 - 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension o measurement plane orientation the measurement resolution of x or y dimension of the test d measurement point on the test	on, is smaller than the above, must be \leq the corresponding evice with at least one

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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	Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz:} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz:} \le 4 \text{ mm}^*$
S CH	Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		\leq 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm
2 Hill		graded	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	\leq 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
			$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z$	Zoom(n-1)
	Minimum zoom scan volume	x, y, z		\geq 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration denth of a plane-wave at normal incidence to the tissue medium: see draft standard IEEE					

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

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

When zoom scan is required and the <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.

Step 4: Power Drift Measurement

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

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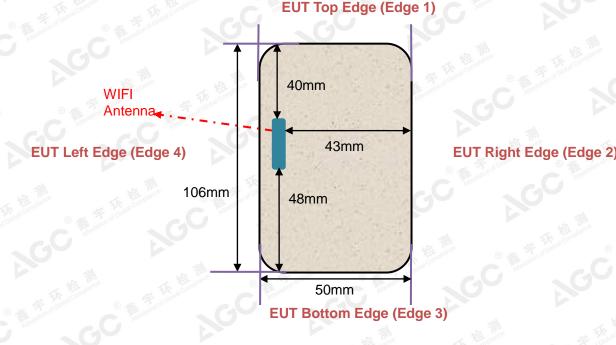
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4.3. RF Exposure Conditions

Test Configuration and setting:

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

Antenna Location: (front view)



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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
2450 Body	70	C 1 nor Got	0.0	9	0.0	20

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

Target Frequency	h	ead	body		
(MHz)	٤r	σ (S/m)	٤r	σ (S/m)	
300	45.3	0.87	58.2	0.92	
450	43.5	0.87	56.7	0.94	
835	41.5	0.90	55.2	0.97	
900	41.5	0.97	55.0	1.05	
915	41.5	1.01	55.0	1.06	
1450	40.5	1.20	54.0	1.30	
1610	40.3	1.29	53.8	1.40	
1800 – 2000	40.0	1.40	53.3	1.52	
2450	39.2	1.80	52.7	1.95	
3000	38.5	2.40	52.0	2.73	

(ϵr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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5.3. Tissue Calibration Result

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

		Tissue Stimulant M	easurement for 2450MHz		
	Fr.	Dielectric Pa	rameters (±5%)	Tissue	F. Gobal
	(MHz)	er52.7(50.065-55.335)	δ[s/m]1.95(1.8525-2.0475)	Temp [oC]	Test time
Body	2412	53.95	1.88		
8 Allestation	2437	53.37	1.91	21.0	May 🔬
	2450	52.74	1.92	21.8	11,2018
	2462	52.10	1.94	Global Con	- C

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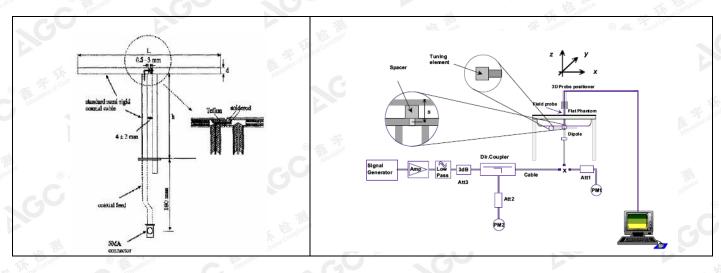
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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



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6.2. SAR System Check 6.2.1. Dipoles

Clonal CO.	AN ACOM			
GC T			co w fc	he dipoles used is based on the IEEE-1528 standard, and is omplied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical pecifications for the dipoles.
Allestation				
			The state	
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	The solution	50° 30°	
Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Performance Check at 2450MHz for Body										
Validation I	Kit: SN 29)/15DIP 20	G450-393							
Frequency		rget (W/Kg)		ce Result 0%)		alized (W/Kg)	Tissue Temp.	Test time		
[MHz]	1g	10g	1g	10g	1g	10g	[°C]			
2450	49.92	23.16	44.928-54.912	20.844-25.476	46.81	21.19	21.8	May 11,2018		
100								and the second s		

Note:

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

(2) Tested normalized SAR (W/kg) = Tested SAR (W/kg) \times [1000/ 10^1.8]

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7. EUT TEST POSITION

This EUT was tested in Back upward, Face upward, Left edge, Right edge and Bottom edge.

7.1. Body Worn Position

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

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8. SAR EXPOSURE LIMITS

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

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

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date	
SAR Probe	MVG	SN 08/16 EPGO282	Aug. 08,2017	Aug. 07,2018	
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.	
Liquid	SATIMO	En al Cabul Color	Validated. No cal required.	Validated. No cal required.	
Multimeter	Keithley 2000	1188656	May 11,2018	Feb. 28,2019	
Dipole	SATIMO SID2450	SN29/15 DIP 2G450-393	July 05,2016	July 04,2019	
Signal Generator	Agilent-E4438C	US41461365	May 11,2018	Feb. 28,2019	
Vector Analyzer	Agilent / E4440A	US41421290	May 11,2018	Feb. 28,2019	
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	May 11,2018	Feb. 28,2019	
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A	
Attenuator	Mini-circuits / VAT-10+	N/A	N/A C	N/A	
Amplifier	EM30180	SN060552	May 11,2018	Feb. 28,2019	
Directional Couple	Werlatone/ C5571-10	SN99463	June 20,2017	June 19,2018	
Directional Couple	Werlatone/ C6026-10	SN99482	June 20,2017	June 19,2018	
Power Sensor	NRP-Z21	1137.6000.02	Oct. 12,2017	Oct. 11,2018	
Power Sensor	NRP-Z23	US38261498	May 11,2018	Feb. 28,2019	
Power Viewer	R&S	V2.3.1.0	N/A	N/A	

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

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

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11. MEASUREMENT UNCERTAINTY

Measu	urement u	ncertainty fo		averaged o	over 1 gram	/ 10 gram.			
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	Attesta	C W	lestation			N			lin-
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	8
Axial Isotropy	E.2.2	0.695	R	$\sqrt{3}$	√0.5	√0.5	0.28	0.28	8
Hemispherical Isotropy	E.2.2	1.045	R	√3	√0.5	√0.5	0.43	0.43	8
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	-1C P	1	0.58	0.58	00
Linearity	E.2.4	0.685	R	√3	1	1	0.40	0.40	00
System detection limits	E.2.4	1.0	R	√3	1 1	1	0.58	0.58	8
Modulation response	E2.5	3.0	R	√3	1 Gobal Com	1.0 5	1.73	1.73	8
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	8
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0	0	8
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	1	1 10 100	0.81	0.81	∞ (
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1 3	1	1.73	1.73	00
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1 Alleston	1	1.73	1.73	8
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	1	0.81	0.81	8
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√ 3	1	C1 Preserved	1.33	1.33	8
Test sample Related	C.C	him	69					1117-	
Test sample positioning	E.4.2	2.6	N	1	1	1	2.6	2.6	8
Device holder uncertainty	E.4.1	3	N	collarce 1	1	1	3	3	8
Output power variation—SAR drift measurement	E.2.9	5	R	√3	peration of 1	1.	2.89	2.89	8
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters					III	1	44	TF.	Complian
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	house 1	The Global Compil	2.31	2.31	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	estation of Com	5 0	0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	М
Liquid permittivity measurement	E.3.3	5	Ν	1	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	8
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	8
Combined Standard Uncertainty	G		RSS			10	9.79	9.59	
Expanded Uncertainty (95% Confidence interval)		the THE	K=2	Hamplance	© 5	F A Global Contr	19.58	19.18	r,C

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Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	Attestation	C 4	ttestation of		9	0			
Probe calibration drift	E.2.1.3	0.5	Ν	1	1	1	0.50	0.50	00
Axial Isotropy	E.2.2	0.695	R	√3	0	0	0.00	0.00	8
Hemispherical Isotropy	E.2.2	1.045	R	$\sqrt{3}$	0	0	0.00	0.00	8
Boundary effect	E.2.3	1.0	R	√3	0	0	0.00	0.00	8
Linearity	E.2.4	0.685	R	$\sqrt{3}$	0	0	0.00	0.00	8
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Modulation response	E2.5	3.0	R	√3	0	0	0.00	0.00	8
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	8
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	8
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0 🥢	0	0.00	0.00	00
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	1	0.81	0.81	x
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	o
Extrapolation, interpolation, and integrations algorithms for max.	E.5	2.3	R	√3	0	0	0.00	0.00	8
System check source (dipole)	- 6	Attesta	20	. hen.				and a	<u> </u>
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	8
Input power and SAR drift measurement	8,6.6.4	5	R	√3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	^{ncence} 1	2.89	2.89	00
Dipole axis to liquid distance	8,E.6.6	2	R	√3	station 1	1	1.15	1.15	8
Phantom and tissue parameters	of Glov	CO'		G	·				117:
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	Thomas Cooper	1	0.84	1.90	1.60	00
Liquid conductivity measurement	E.3.3	4	Ν	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	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	00
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	00
Combined Standard Uncertainty		Attestation	RSS	6			5.564	5.205	
Expanded Uncertainty (95% Confidence interval)	S		K=2			T HE TH	11.128	10.410	

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Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	- F .0	obal Co	F Global	om	- G *	- C	Allen		
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	00
Axial Isotropy	E.2.2	0.695	R	√3	1	1	0.40	0.40	00
Hemispherical Isotropy	E.2.2	1.045	R	$\sqrt{3}$	0	0	0.00	0.00	00
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1 🚛	Ford Given	0.58	0.58	00
Linearity	E.2.4	0.685	R	√3		1	0.40	0.40	00
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	$\sqrt{3}$	0	0	0.00	0.00	00
Readout Electronics	E.2.6	0.021	N	1		© 1 3	0.021	0.021	00
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	00
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1 1	Cooler 1	1.73	1.73	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	C 1	10	0.81	0.81	8
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	00
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	The second second	C 1 France	1.33	1.33	8
System check source (dipole)	e B	Fration of Glove	8	Attestation of	- 6	0	0		
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	CN	1	1	1	5.00	5.00	8
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	10	interce 1	2.89	2.89	00
Dipole axis to liquid distance	8,E.6.6	2.0	R	√3 √3	Fino 100	1	1.15	1.15	00
Phantom and tissue parameters	A Global Coll.	C. 3	ttestatio.	-C	Attes	<u> </u>			
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	√3	1	1	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	the state	1	0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	4.0	Ν	hiestation 1	0.78	0.71	3.12	2.84	M
_iquid permittivity measurement	E.3.3	5.0	Ν	1	0.23	0.26	1.15	1.30	Μ
iquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	8
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	00
Combined Standard Uncertainty	Cobal	C The station of G	RSS	EG *	-		9.718	9.517	
Expanded Uncertainty (95% Confidence interval)	- 6	Aller	K=2				19.437	19.035	

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12. CONDUCTED POWER MEASUREMENT

WIFI 2.4G

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Maximum Average Conducted Power (dBm)
C C C C C C		01	2412	15.34
802.11b	1	06	2437	15.72
	- 1110-	_ 11 _ sk	2462	15.18
The compliance	K Baptione	01	2412	10.85
802.11g	6	06	2437	10.74
Allestant Allestante		11	2462	10.95
		01	2412	10.53
802.11n(20)	6.5	06	2437	10.66
The solution	The Compliance	F. and 11 _ C	2462	10.04
Allestation		03	2422	8.87
802.11n(40)	13.5	06	2437	9.12
		09	2452	8.54

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13. TEST RESULTS

13.1. SAR Test Results Summary 13.1.1. Test position and configuration

- 1. The EUT is a model of wifi Camera;
- 2. According to KDB 447498 D01 General RF Exposure Guidance v06, due to the Max peak power for
- wifi is more than the test exclusion threshold, which have to be tested;
- 3. Test procedure:
- (1). Using a Flat phantom flied with body tissue simulating liquid for test;
- (2). Using a separation distance of 0mm for test;
- (3). The EUT is only used in the hands, so the device can be tested for 10-g extremity SAR.
- 4. For SAR testing, the device was controlled by software to test at reference fixed frequency.

13.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- 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.
- 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)]

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SAR MEASU	REMENT											
Depth of Liqui	Depth of Liquid (cm):>15 Relative Humidity (%): 51.3											
Product: WiFi	Borescop	be Cam	era									
Test Mode: 80	Test Mode: 802.11b											
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Extremity SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR(10g) (W/Kg)	Limit(10g) (W/kg)		
Back upward	DTS	06	2437	-1.23	0.392	0.205	15.72	15.72	0.205	4.0		
Face upward	DTS	06	2437	0.72	0.690	0.300	15.72	15.72	0.300	4.0		
Right Edge	DTS	06	2437	1.10	0.130	0.064	15.72	15.72	0.064	4.0		
Left Edge	DTS	01	2412	-3.32	1.017	0.413	15.72	15.34	0.451	4.0		
Left Edge	DTS	06	2437	0.02	0.937	0.380	15.72	15.72	0.380	4.0		
Left Edge	DTS	11	2462	4.33	0.879	0.345	15.72	15.18	0.391	4.0		
Bottom	DTS	06	2437	-0.28	0.176	0.077	15.72	15.72	0.077	4.0		

13.1.3. SAR Test Results Summary

Note:

(1). The test separation of all above table is 0mm.

(2). Plots are only shown for the bold markered worst case SAR results

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Date: May 11,2018

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab System Check Body 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

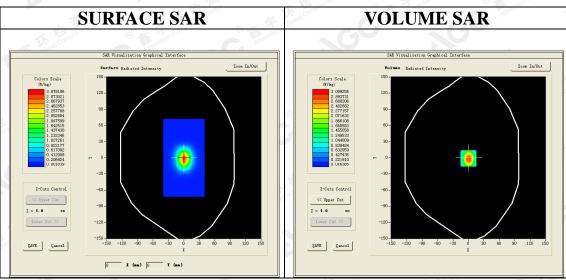
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.58 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.92$ mho/m; $\epsilon r = 52.74$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 22.3, Liquid temperature (°C): 21.8

SATIMO Configuration:

- · Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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



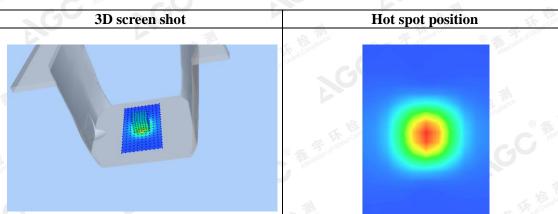
Maximum location: X=1.00, Y=-1.00 SAR Peak: 5.33 W/kg

SAR 10g (W/Kg)	1.337119
SAR 1g (W/Kg)	2.953741

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab 802.11b Low- Left Edge (DTS) DUT: 720P WiFi Borescope Camera; Type: GD9003 Date: May 11,2018

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.58; Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.88 mho/m; ϵ r =53.95; ρ = 1000 kg/m³ Phantom section: Flat Section

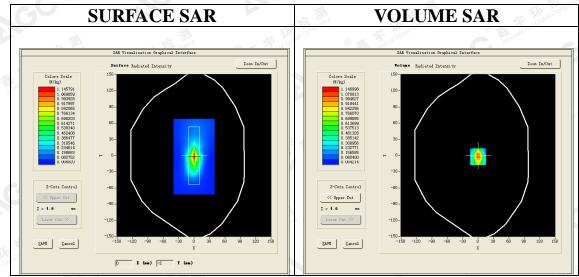
Ambient temperature (℃): 22.3, Liquid temperature (℃): 21.8

SATIMO Configuration:

- · Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- · Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Low - Left Edge /Area Scan: Measurement grid: dx=10mm, dy=10mm **Configuration/802.11b Low - Left Edge /Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

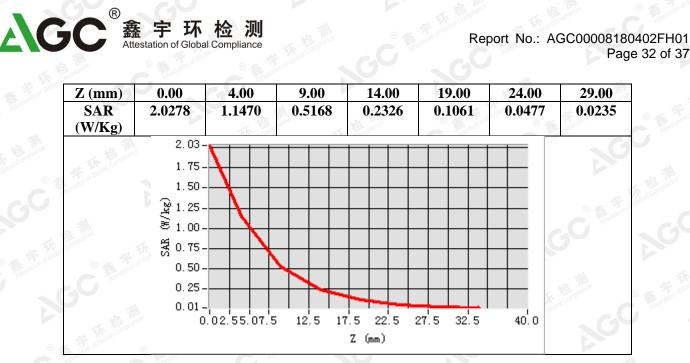
Area Scan	sam_direct_droit2_surf10mm.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	SAM twin phantom
Device Position	Left Edge
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0
orginar	



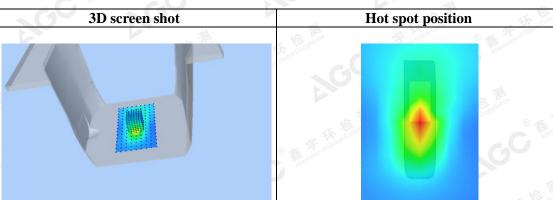
Maximum location: X=0.00, Y=-2.00 SAR Peak: 2.10 W/kg

SAR 10g (W/Kg)	0.412682
SAR 1g (W/Kg)	1.017272

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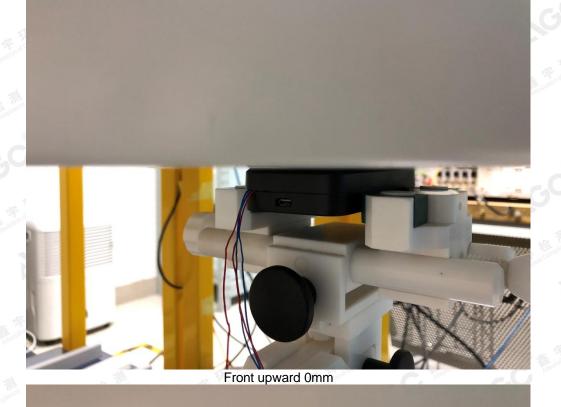


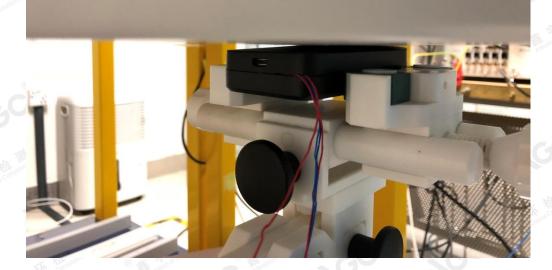


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APPENDIX C. TEST SETUP PHOTOGRAPHS

Back upward 0mm





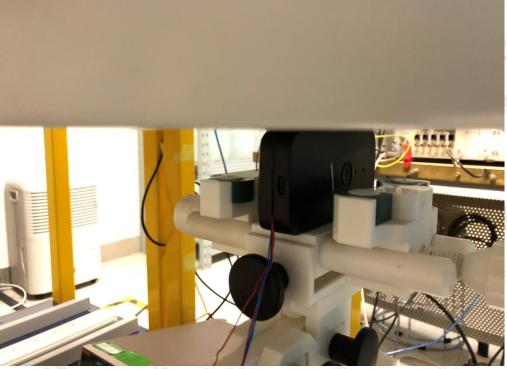
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Left Edge 0mm



Right Edge 0mm



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Bottom Edge 0mm



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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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