



SAR Test Report

Report No.: STS2603009H02

Issued for

HONG KONG LELEGAO TECHNOLOGY CO., LIMITED

19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,
Kowloon, HongKong

Product Name: Tablet PC

Brand Name: Blackview

Model Name: MEGA 5

Series Model(s): N/A

FCC ID: 2BSW8-MEGA5

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report Body : 1.247 W/kg
SAR (1g)

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION****Applicant's name** : HONG KONG LELEGAO TECHNOLOGY CO.,LIMITEDAddress : 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,
Kowloon, HongKong**Manufacturer's Name** : Shenzhen Doke Electronic Co., LTDAddress : 801, Building3, 7th Industrial Zone, Yulv Community, Yutang
Road, Guangming District, Shenzhen, China**Product description**

Product name : Tablet PC

Brand name : Blackview

Model name : MEGA 5

Series Model..... : N/A

ANSI/IEEE Std. C95.1

Standards : FCC 47 CFR Part 2 (2.1093)

IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test..... :

Date (s) of performance of tests..... : 04 Mar 2026 ~ 07 Mar 2026

Date of Issue..... : 08 Apr 2026

Test Result..... : **Pass**

Testing Engineer : _____

(Xin.Liu)

Technical Manager : _____

(Shifan. Long)

Authorized Signatory : _____

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	08 Apr 2026	STS2603009H02	ALL	Initial Issue



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Tablet PC
Brand Name	Blackview
Model Name	MEGA 5
Series Model	N/A
Model Difference	N/A
Sample number	260227001-4
Battery	Model: LiU3289113PHVUTL Brand: Blackview Rated Voltage: 3.87V Charge Limit Voltage: 4.45V Capacity: 10000mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	J50_T7300_D4UF
Software Version	MEGA_5_EEA_j50
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body Worn and Hotspot(W/kg)
	PCE	GSM 850	0.631
	PCE	GSM 1900	0.753
	PCE	WCDMA Band II	0.940
	PCE	WCDMA Band V	0.895
	PCE	WCDMA Band IV	0.904
	PCE	LTE Band 2	0.602
	PCE	LTE Band 4	1.070
	PCE	LTE Band 5	1.032
	PCE	LTE Band 7	0.933
	PCE	LTE Band 12	0.085
	PCE	LTE Band 17	0.097
	PCE	LTE Band 41	0.647
	PCE	LTE Band 66	0.904
	DTS	2.4G WLAN	0.347
	DSS	BT	0.046
	NII	5.2G WLAN	0.332
	NII	5.8G WLAN	0.343
	1-g Sum SAR		
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK		
Antenna Specification:	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time		
Hotspot Mode	Support		
DTM Mode	Not Support		
Note: 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power 4.Engineering mode used for BT&WIFI test, set of power class please find in RF report.			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
11	KDB 616217 D04 v01r02	SAR evaluation requirements for laptop, notebook, notebook and tablet computers

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

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

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

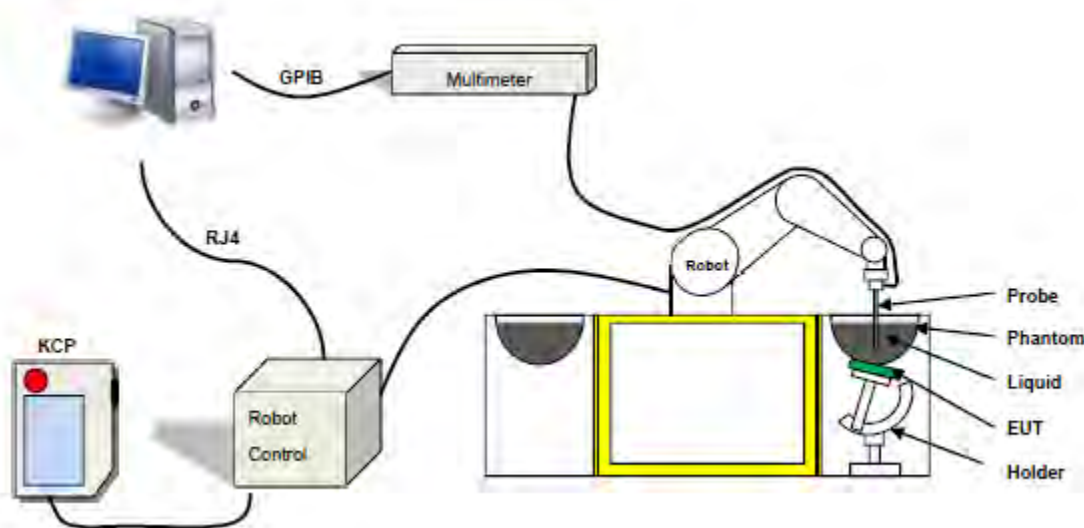
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

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

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



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

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
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 (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
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
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

**LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-03-05	23.7	43	707.5	22.2	Permittivity	42.13	42.27	0.34	±5
					Conductivity	0.89	0.89	0.32	±5
2026-03-05	23.7	43	750	22.2	Permittivity	41.19	42.25	0.34	±5
					Conductivity	0.89	0.89	0.32	±5
2026-03-05	23.7	43	782	22.2	Permittivity	41.73	42.30	1.37	±5
					Conductivity	0.89	0.89	-0.24	±5
2026-03-05	23.7	48	824.2	22.2	Permittivity	41.55	42.37	1.97	±5
					Conductivity	0.90	0.89	-0.97	±5
2026-03-05	23.7	48	826.4	22.2	Permittivity	41.54	41.79	0.60	±5
					Conductivity	0.90	0.89	-1.00	±5
2026-03-05	23.7	48	829	22.2	Permittivity	41.53	41.53	0.00	±5
					Conductivity	0.90	0.90	0.08	±5
2026-03-05	23.7	48	835	22.2	Permittivity	41.50	42.21	1.81	±5
					Conductivity	0.90	0.92	1.09	±5
2026-03-05	23.7	48	836.5	22.2	Permittivity	41.49	42.25	1.83	±5
					Conductivity	0.90	0.91	1.09	±5
2026-03-05	23.7	48	844	22.2	Permittivity	41.46	42.15	1.67	±5
					Conductivity	0.90	0.90	-0.12	±5
2026-03-05	22.7	48	846.6	22.2	Permittivity	41.45	41.88	1.05	±5
					Conductivity	0.90	0.90	-0.15	±5
2026-03-06	23.6	52	1712.6	23.3	Permittivity	40.13	40.08	-0.11	±5
					Conductivity	1.35	1.34	-0.74	±5
2026-03-06	23.6	52	1720	23.3	Permittivity	40.11	40.40	0.71	±5
					Conductivity	1.35	1.37	1.16	±5
2026-03-06	23.6	53	1732.5	23.3	Permittivity	40.10	40.65	1.38	±5
					Conductivity	1.36	1.37	0.63	±5
2026-03-06	23.6	52	1745	23.3	Permittivity	40.08	40.62	1.35	±5
					Conductivity	1.37	1.35	-1.36	±5
2026-03-06	23.6	52	1752.5	23.3	Permittivity	40.07	40.67	1.50	±5
					Conductivity	1.37	1.37	-0.21	±5
2026-03-06	23.6	52	1770	23.3	Permittivity	40.04	40.09	0.12	±5
					Conductivity	1.38	1.38	-0.21	±5
2026-03-06	23.6	52	1800	23.3	Permittivity	40.00	40.65	1.50	±5
					Conductivity	1.40	1.36	-0.21	±5



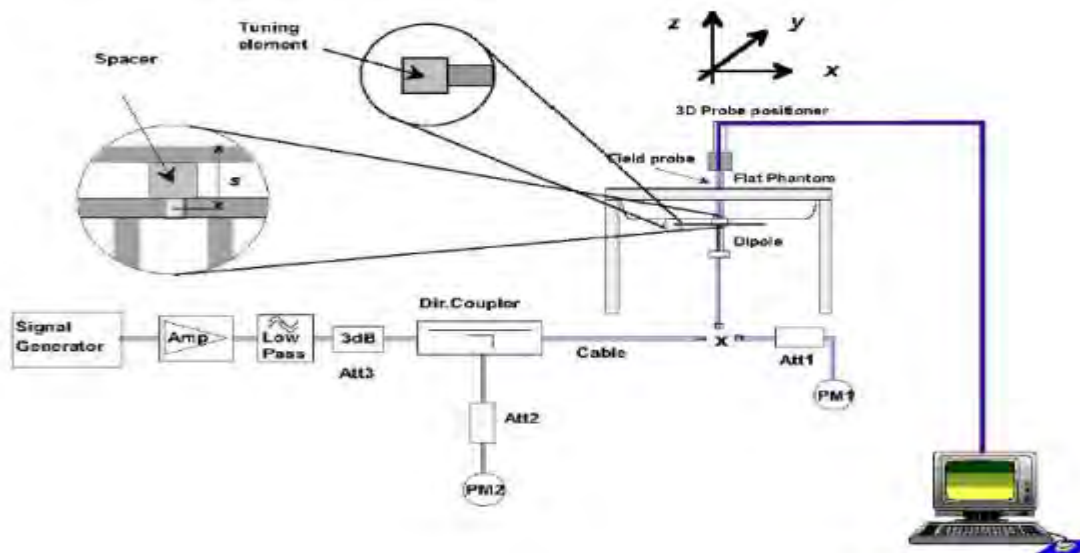
2026-03-04	24.1	46	1850.2	23.8	Permittivity	40.00	40.97	2.43	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-03-04	24.1	46	1852.5	23.8	Permittivity	40.00	39.87	-0.33	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-04	24.1	46	1860	23.8	Permittivity	40.00	39.35	-1.63	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-04	24.1	47	1880	23.8	Permittivity	40.00	40.39	0.98	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-03-04	24.1	46	1900	23.8	Permittivity	40.00	39.83	-0.37	±5
					Conductivity	1.40	1.39	0.00	±5
2026-03-04	24.1	46	1907.5	23.8	Permittivity	40.00	39.85	-0.37	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-07	23.4	51	2437	23.4	Permittivity	39.18	39.60	1.08	±5
					Conductivity	1.81	1.82	0.52	±5
2026-03-07	23.4	51	2450	23.4	Permittivity	39.20	39.57	1.04	±5
					Conductivity	1.80	1.81	0.36	±5
2026-03-07	23.4	51	2510	23.4	Permittivity	39.09	39.26	0.43	±5
					Conductivity	1.85	1.88	1.44	±5
2026-03-07	23.4	51	2535	23.4	Permittivity	39.05	39.32	0.69	±5
					Conductivity	1.88	1.88	0.24	±5
2026-03-07	23.4	60	2555	23.4	Permittivity	39.06	39.58	1.33	±5
					Conductivity	1.91	1.91	-0.10	±5
2026-03-07	23.4	60	2560	23.4	Permittivity	39.05	40.02	2.48	±5
					Conductivity	1.92	1.93	0.66	±5
2026-03-07	23.4	60	2600	23.4	Permittivity	39.00	39.84	1.78	±5
					Conductivity	1.96	1.94	0.57	±5
2026-03-07	23.4	50	5200	23.4	Permittivity	35.99	36.28	0.81	±5
					Conductivity	4.67	4.66	-0.22	±5
2026-03-07	23.4	50	5240	23.4	Permittivity	35.99	36.28	0.81	±5
					Conductivity	4.67	4.66	-0.22	±5
2026-03-07	23.4	54	5785	23.4	Permittivity	35.33	36.11	2.22	±5
					Conductivity	5.24	5.23	-0.26	±5
2026-03-07	23.4	54	5800	23.4	Permittivity	35.30	35.54	2.34	±5
					Conductivity	5.27	5.25	-0.28	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance 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 validation setup is shown as below.



**5.2 Validation Result**

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

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-03-05	750	100 mW	0.795	0.568	1.16	8.49	5.53	-6.39%	2.79%	10
		Normalize to 1 Watt	7.95	5.68						
2026-03-05	835	100 mW	0.900	0.617	1.18	9.63	6.15	-6.57%	0.29%	10
		Normalize to 1 Watt	9.00	6.17						
2026-03-06	1800	100 mW	3.755	2.027	0.87	37.95	20.49	-1.06%	-1.09%	10
		Normalize to 1 Watt	37.55	20.27						
2026-03-04	1900	100 mW	3.959	2.051	1.36	39.84	20.20	-0.62%	1.52%	10
		Normalize to 1 Watt	39.59	20.51						
2026-03-07	2450	100 mW	5.479	2.397	-0.56	54.70	24.11	0.16%	-0.58%	10
		Normalize to 1 Watt	54.79	23.97						
2026-03-07	2600	100 mW	5.554	2.445	2.98	56.19	24.08	-1.34%	1.54%	10
		Normalize to 1 Watt	55.54	24.45						
2026-03-07	5200	10 mW	1.536	0.618	1.16	163.88	57.29	-6.25%	7.85%	10
		Normalize to 1 Watt	153.63	61.79						
2026-03-07	5800	10 mW	1.904	0.674	-2.45	188.95	63.45	0.79%	6.20%	10
		Normalize to 1 Watt	190.45	67.39						

Note:

(1) We use a CW signal of 20dBm(750/835/1800/1900/2450/2600MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

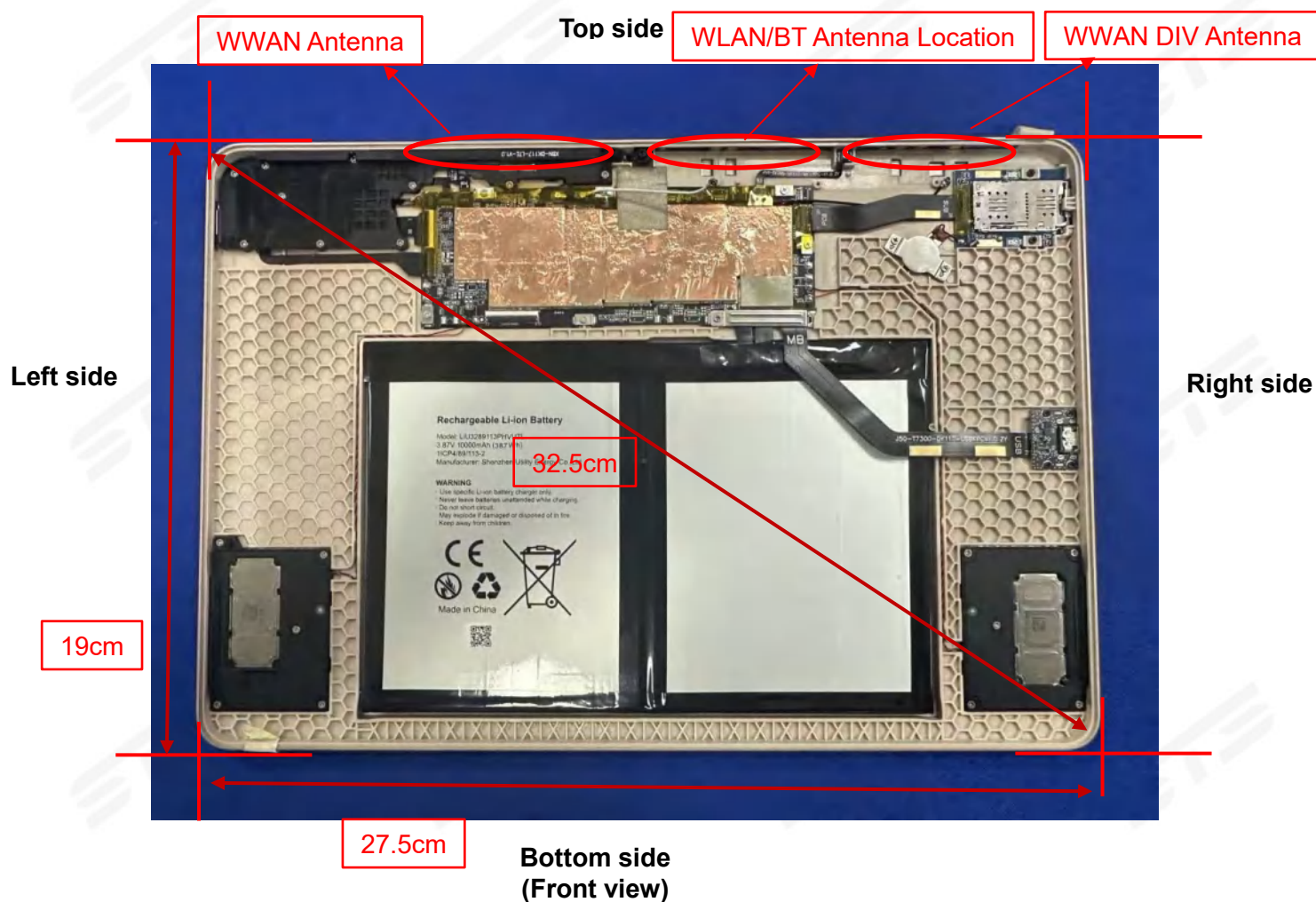
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- 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.
- 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.

➤ Area Scan& Zoom Scan

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 D01 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.

7. EUT Antenna Location Sketch

It is a Smart phone, support GSM/WCDMA/LTE/WLAN/BT mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	≤0.5	16	7.7	≤0.5	18.4
WWAN	≤0.5	≤0.5	5.8	15	≤0.5	18.4

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

**7.1 SAR test exclusion consider table**

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency(GHz)	0.8242	1.8502	1.8524	1.7524	0.8466
	Maximum Turn-up power (dBm)	30	26.5	23.5	24	24
	Maximum rated power(mW)	1000.00	446.68	223.87	251.19	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	5.8	5.8	5.8	5.8	5.8
	exclusion threshold(mW)	295.15	313.26	313.16	341.56	386.52
	Testing required?	YES	YES	NO	NO	NO
Right Edge	Separation distance (cm)	15	15	15	15	15
	exclusion threshold(mW)	1122.17	1801.72	1801.58	2071.40	1891.90
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (cm)	18.4	18.4	18.4	18.4	18.4
	exclusion threshold(mW)	1495.43	2624.51	2624.45	3051.91	2661.93
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency(GHz)	1.86	1.72	0.844	2.56	0.711
	Maximum Turn-up power (dBm)	25	24	24.5	23.5	24
	Maximum rated power(mW)	316.23	251.19	281.84	223.87	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.42	3.64	9.11	2.65	11.59
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.42	3.64	9.11	2.65	11.59
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	5.8	5.8	5.8	5.8	5.8
	exclusion threshold(mW)	312.81	319.46	296.51	287.07	286.83
	Testing required?	YES	NO	NO	NO	NO
Right Edge	Separation distance (cm)	15	15	15	15	15
	exclusion threshold(mW)	1801.12	1809.95	1144.03	1765.54	995.22
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.42	3.64	9.11	2.65	11.59
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (cm)	18.4	18.4	18.4	18.4	18.4
	exclusion threshold(mW)	2624.26	2627.98	1529.38	2609.13	1300.43
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 17	LTE Band 41	LTE Band 66	BT	2.4G WLAN
	Calculated Frequency(GHz)	0.711	2.593	1.72	2.441	2.442
	Maximum Turn-up power (dBm)	23.5	24.5	24	3.52	20.5
	Maximum rated power(mW)	223.87	281.84	251.19	2.25	112.20
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.59	2.62	3.64	2.75	2.75
	Testing required?	YES	YES	YES	NO	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.59	2.62	3.64	2.75	2.75
	Testing required?	YES	YES	YES	NO	YES
Left Edge	Separation distance (cm)	5.8	5.8	5.8	16	16
	exclusion threshold(mW)	286.83	286.09	319.46	2001.99	2001.95
	Testing required?	NO	NO	NO	NO	NO
Right Edge	Separation distance (cm)	15	15	15	7.7	7.7
	exclusion threshold(mW)	995.22	1764.13	1809.95	498.35	498.31
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.59	2.62	3.64	2.75	2.75
	Testing required?	YES	YES	YES	NO	YES
Bottom Edge	Separation distance (cm)	18.4	18.4	18.4	18.4	18.4
	exclusion threshold(mW)	1300.43	2608.52	2627.98	2611.38	2611.36
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN	5.8G WLAN
	Calculated Frequency(GHz)	5.24	5.825
	Maximum Turn-up power (dBm)	13.5	14
	Maximum rated power(mW)	22.39	25.12
Back Side	Separation distance (cm)	0.5	0.5
	exclusion threshold(mW)	1.49	1.37
	Testing required?	YES	YES
Front Side	Separation distance (cm)	0.5	0.5
	exclusion threshold(mW)	1.49	1.37
	Testing required?	YES	YES
Left Edge	Separation distance (cm)	16	16
	exclusion threshold(mW)	1929.24	1919.37
	Testing required?	NO	NO
Right Edge	Separation distance (cm)	7.7	7.7
	exclusion threshold(mW)	425.37	416.14
	Testing required?	NO	NO
Top Edge	Separation distance (cm)	0.5	0.5
	exclusion threshold(mW)	1.49	1.37
	Testing required?	YES	YES
Bottom Edge	Separation distance (cm)	18.4	18.4
	exclusion threshold(mW)	2575.50	2570.57
	Testing required?	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.



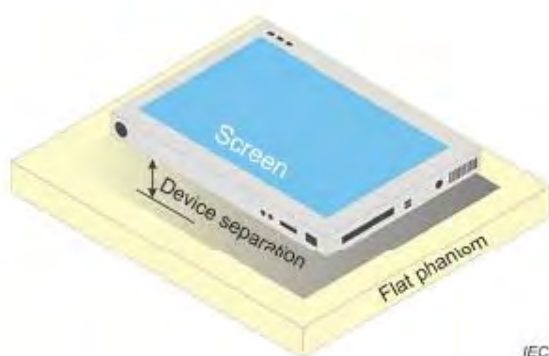
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.

8. EUT Test Position

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

8.1 Test 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**.





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

SATIMO Uncertainty- SN 08/21 EPG0352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/- %)	10g Ui (+/- %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+ %)	10g Ui (+ %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



SATIMO Uncertainty- SN 08/21 EPGO352									
° System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity— temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity— temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	33.23	33.2	33.47	29.88	29.93	29.92
GPRS (GMSK, 1-Slot)	33.18	33.16	33.45	29.88	29.92	29.93
GPRS (GMSK, 2-Slot)	31.3	31.05	31.09	27.61	27.46	27.21
GPRS (GMSK, 3-Slot)	29.59	29.3	29.27	26.17	26.02	25.77
GPRS (GMSK, 4-Slot)	27.72	27.35	27.28	24.16	24.03	23.77
EGPRS(8PSK, 1-Slot)	25.87	25.11	24.82	26.32	26.08	25.15
EGPRS(8PSK, 2-Slot)	24.8	24.32	24.35	24.43	24.81	24.21
EGPRS(8PSK, 3-Slot)	22.33	22.38	21.88	22.73	22.51	21.84
EGPRS(8PSK, 4-Slot)	20.65	20.14	20.02	20.46	20.06	19.41
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	24.20	24.17	24.44	20.85	20.90	20.89
GPRS (GMSK, 1-Slot)	24.15	24.13	24.42	20.85	20.89	20.90
GPRS (GMSK, 2-Slot)	25.28	25.03	25.07	21.59	21.44	21.19
GPRS (GMSK, 3-Slot)	25.33	25.04	25.01	21.91	21.76	21.51
GPRS (GMSK, 4-Slot)	24.71	24.34	24.27	21.15	21.02	20.76
EGPRS(8PSK, 1-Slot)	16.84	16.08	15.79	17.29	17.05	16.12
EGPRS(8PSK, 2-Slot)	18.78	18.30	18.33	18.41	18.79	18.19
EGPRS(8PSK, 3-Slot)	18.07	18.12	17.62	18.47	18.25	17.58
EGPRS(8PSK, 4-Slot)	17.64	17.13	17.01	17.45	17.05	16.40
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						

**WCDMA**

Band	WCDMA Band 2			WCDMA Band 5			WCDMA Band 4		
Channel	9262	9400	9538	4132	4183	4233	1312	1413	1513
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	1712.6	1740	1752.4
RMC 12.2Kbps	22.5	22.5	22.57	23.39	23.73	23.83	22.8	23.23	23.76
HSDPA Subtest-1	22.45	22.22	21.9	23.16	22.85	22.4	21.98	21.79	21.47
HSDPA Subtest-2	21.73	21.96	21.71	22.08	23.32	23.02	21.4	22.54	22.29
HSDPA Subtest-3	21.57	21.21	21.9	22.73	22.55	22.94	21.96	21.39	23.07
HSDPA Subtest-4	21.59	21.28	21.26	22.65	22.5	22.27	22.55	22.06	22.2
HSUPA Subtest-1	22.84	23.02	22.78	22.85	22.97	22.62	22.23	22.46	21.73
HSUPA Subtest-2	23.06	22.94	22.46	22.88	22.7	23.22	22.52	22.07	22.81
HSUPA Subtest-3	22.73	22.47	22.74	23.22	22.83	23.22	22.95	22.69	23.01
HSUPA Subtest-4	22.36	22.47	22.6	22.84	22.66	22.86	22.78	23.16	23.37
HSUPA Subtest-5	22.3	22.63	22.59	22.65	22.82	22.73	23.08	23.53	22.98

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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	17.91	61.80
	7	2437	18.32	67.92
	11	2462	18.54	71.45
802.11g	1	2412	18.85	76.74
	7	2437	18.89	77.45
	11	2462	19.10	81.28
802.11 n-HT20	1	2412	19.70	93.33
	7	2437	20.18	104.23
	11	2462	20.11	102.57
802.11 n-HT40	3	2422	18.64	73.11
	6	2437	19.29	84.92
	9	2452	19.37	86.50

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.12	2.05
	39	2441	2.75	1.88
	78	2480	2.96	1.98
$\pi/4$ -QPSK(2Mbps)	0	2402	3.32	2.15
	39	2441	2.77	1.89
	78	2480	2.93	1.96
8DPSK(3Mbps)	0	2402	3.41	2.19
	39	2441	3.00	2.00
	78	2480	3.15	2.07

**BLE**

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.16	1.64
	19	2440	1.28	1.34
	39	2480	1.81	1.52
GFSK(2Mbps)	0	2402	2.13	1.63
	19	2440	1.24	1.33
	39	2480	1.79	1.51

WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	11.70	14.79
	40	5200	12.13	16.33
	48	5240	12.90	19.50
802.11 n-HT20	36	5180	12.53	17.91
	40	5200	12.81	19.10
	48	5240	13.45	22.13
802.11 n-HT40	38	5190	12.50	17.78
	46	5230	13.18	20.80
802.11ac-VHT20	36	5180	11.76	15.00
	40	5200	11.90	15.49
	48	5240	12.57	18.07
802.11ac-VHT40	38	5190	12.72	18.71
	46	5230	13.04	20.14
802.11ac-VHT80	42	5210	12.83	19.19



WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	11.70	14.79
	157	5785	12.51	17.82
	165	5825	12.74	18.79
802.11 n-HT20	149	5745	12.97	19.82
	157	5785	13.26	21.18
	165	5825	13.35	21.63
802.11 n-HT40	151	5755	12.31	17.02
	159	5795	12.68	18.54
802.11ac-VHT20	149	5745	11.85	15.31
	157	5785	12.43	17.50
	165	5825	12.42	17.46
802.11ac-VHT40	151	5755	12.07	16.11
	159	5795	12.62	18.28
802.11ac-VHT80	155	5775	12.78	18.97

**LTE Conducted Power****General Note:**

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.40	22.05	24.23
1.4	1	2		24.35	22.00	24.25
1.4	1	5		24.38	22.87	24.20
1.4	3	0		24.11	22.06	24.14
1.4	3	1		24.08	22.11	24.11
1.4	3	2		24.05	22.96	24.09
1.4	6	0		23.50	21.58	23.51
1.4	1	0	16-QAM	24.52	21.72	23.74
1.4	1	2		24.49	21.83	23.72
1.4	1	5		24.48	22.64	23.83
1.4	3	0		23.10	21.20	23.37
1.4	3	1		23.13	21.17	23.39
1.4	3	2		23.13	22.05	23.39
1.4	6	0		22.13	20.36	22.38
3	1	0	QPSK	24.35	22.02	23.79
3	1	7		24.42	21.94	24.26
3	1	14		24.20	22.78	24.26
3	8	0		23.51	21.61	23.04
3	8	4		23.47	21.63	23.51
3	8	7		23.27	22.45	23.48
3	15	0		23.43	21.44	23.56
3	1	023	16-QAM	23.38	21.79	23.22
3	1	7		23.33	21.77	23.74
3	1	14		23.19	22.59	23.76
3	8	0		22.27	20.11	21.79
3	8	4		22.28	20.04	22.34
3	8	7		22.15	20.91	22.34
3	15	0		21.95	20.15	22.29



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.89	22.26	23.3
5	1	12		23.73	22.12	23.77
5	1	24		23.54	24.21	24.16
5	12	0		23.56	21.46	23.04
5	12	6		23.30	21.58	23.09
5	12	11		23.24	22.29	23.55
5	25	0		23.39	21.43	23.04
5	1	0	16-QAM	23.44	21.82	22.79
5	1	12		23.29	21.75	23.2
5	1	24		23.11	23.78	23.71
5	12	0		22.04	20.02	21.67
5	12	6		21.90	20.00	21.74
5	12	11		21.85	20.86	22.19
5	25	0		22.16	19.99	21.73
10	1	0	QPSK	24.28	22.24	22.45
10	1	24		23.93	21.90	23.50
10	1	49		23.62	23.77	24.46
10	25	0		23.28	21.60	22.22
10	25	12		23.10	21.47	22.60
10	25	24		23.05	23.55	23.01
10	50	0		23.13	21.49	22.55
10	1	0	16-QAM	23.33	22.70	22.20
10	1	24		23.01	22.38	23.06
10	1	49		22.71	24.09	24.06
10	25	0		21.99	20.34	20.84
10	25	12		21.85	20.20	21.31
10	25	24		21.68	22.14	21.79
10	50	0		21.79	20.13	21.24



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.30	22.46	22.69
15	1	37		23.76	21.98	22.97
15	1	74		23.19	23.45	24.44
15	36	0		23.30	21.63	21.50
15	36	18		23.00	21.41	22.09
15	36	39		22.67	23.44	23.08
15	75	0		22.95	21.59	22.21
15	1	0	16-QAM	23.38	22.81	22.57
15	1	38		22.87	22.31	22.8
15	1	75		22.36	23.71	24.07
15	36	0		21.89	20.45	20.37
15	36	18		21.79	20.24	20.89
15	36	39		21.46	22.17	21.84
15	75	0		21.75	20.14	20.78
20	1	0	QPSK	24.27	22.79	23.13
20	1	49		23.50	22.20	22.25
20	1	99		22.89	23.49	24.41
20	50	0		23.12	21.88	21.9
20	50	24		22.86	21.51	21.51
20	50	49		22.46	23.19	22.72
20	100	0		22.91	21.51	21.57
20	1	0	16-QAM	23.74	22.28	23.21
20	1	49		23.14	21.62	22.35
20	1	99		22.51	22.89	24.41
20	50	0		21.89	20.53	20.72
20	50	24		21.63	20.23	20.24
20	50	49		21.16	21.93	21.30
20	100	0		21.62	20.10	20.26



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.82	23.37	23.35
1.4	1	2		23.86	23.37	23.32
1.4	1	5		23.87	23.40	23.34
1.4	3	0		23.58	23.35	23.35
1.4	3	1		23.63	23.30	23.40
1.4	3	2		23.59	23.35	23.34
1.4	6	0		23.10	22.88	22.79
1.4	1	0	16-QAM	23.84	23.36	23.17
1.4	1	2		23.85	23.39	23.22
1.4	1	5		23.75	23.36	23.18
1.4	3	0		22.61	22.59	22.52
1.4	3	1		22.64	22.60	22.57
1.4	3	2		22.61	22.63	22.54
1.4	6	0		21.71	21.78	21.76
3	1	0	QPSK	23.83	23.38	23.32
3	1	7		23.82	23.38	23.36
3	1	14		23.74	23.36	23.35
3	8	0		23.05	22.86	22.76
3	8	4		22.99	22.92	22.79
3	8	7		22.95	22.91	22.77
3	15	0		23.07	22.88	22.81
3	1	0	16-QAM	22.88	23.39	23.12
3	1	7		22.85	23.36	23.17
3	1	14		22.75	23.36	23.16
3	8	0		21.63	21.46	21.61
3	8	4		21.72	21.51	21.65
3	8	7		21.69	21.50	21.71
3	15	0		21.55	21.52	21.43



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.37	23.55	23.44
5	1	12		23.38	23.54	23.43
5	1	24		23.32	23.54	23.47
5	12	0		23.12	22.87	22.74
5	12	6		23.01	22.93	22.85
5	12	11		22.90	22.87	22.85
5	25	0		22.97	22.82	22.89
5	1	0	16-QAM	22.94	23.07	22.76
5	1	12		22.88	23.06	22.83
5	1	24		22.90	23.03	22.88
5	12	0		21.55	21.35	21.52
5	12	6		21.55	21.42	21.54
5	12	11		21.50	21.37	21.50
5	25	0		21.67	21.45	21.43
10	1	0	QPSK	23.81	23.33	23.43
10	1	24		23.71	23.32	23.51
10	1	49		23.70	23.29	23.57
10	25	0		23.00	22.91	22.83
10	25	12		22.91	22.85	22.74
10	25	24		22.89	22.88	22.85
10	50	0		22.95	22.93	22.75
10	1	0	16-QAM	22.83	23.68	23.15
10	1	24		22.75	23.62	23.14
10	1	49		22.81	23.47	23.26
10	25	0		21.62	21.54	21.47
10	25	12		21.55	21.52	21.41
10	25	24		21.52	21.53	21.50
10	50	0		21.53	21.49	21.47



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.78	23.34	23.41
15	1	37		23.69	23.36	23.40
15	1	74		23.69	23.27	23.52
15	36	0		22.86	22.92	22.69
15	36	18		23.04	22.88	22.78
15	36	39		22.90	22.84	22.67
15	75	0		22.89	22.82	22.83
15	1	0	16-QAM	22.82	23.7	22.98
15	1	38		22.74	23.57	23.00
15	1	75		22.80	23.42	23.06
15	36	0		21.53	21.57	21.36
15	36	18		21.58	21.59	21.40
15	36	39		21.57	21.51	21.42
15	75	0		21.55	21.44	21.37
20	1	0	QPSK	23.72	23.61	23.37
20	1	49		23.57	23.54	23.32
20	1	99		23.61	23.46	23.49
20	50	0		23.07	22.86	22.80
20	50	24		23.04	22.90	22.80
20	50	49		22.94	22.79	22.76
20	100	0		22.90	22.86	22.86
20	1	0	16-QAM	23.21	23.41	22.87
20	1	49		23.10	23.32	22.88
20	1	99		23.15	23.19	23.03
20	50	0		21.55	21.52	21.48
20	50	24		21.60	21.57	21.44
20	50	49		21.66	21.37	21.47
20	100	0		21.57	21.53	21.48



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.69	23.57	23.84
1.4	1	2		23.67	23.67	23.88
1.4	1	5		23.65	23.68	23.83
1.4	3	0		23.41	23.64	23.78
1.4	3	1		23.31	23.64	23.89
1.4	3	2		23.31	23.63	23.82
1.4	6	0		22.70	23.15	23.25
1.4	1	0	16-QAM	23.63	23.74	23.70
1.4	1	2		23.69	23.74	23.76
1.4	1	5		23.63	23.71	23.70
1.4	3	0		22.35	22.75	22.88
1.4	3	1		22.32	22.82	22.87
1.4	3	2		22.29	22.76	22.84
1.4	6	0		21.49	22.00	22.05
3	1	0	QPSK	23.62	23.57	23.86
3	1	7		23.64	23.64	23.86
3	1	14		23.65	23.62	23.83
3	8	0		22.88	23.11	23.25
3	8	4		22.88	23.16	23.16
3	8	7		22.85	23.27	23.22
3	15	0		22.86	23.27	23.24
3	1	0	16-QAM	22.70	23.67	23.77
3	1	7		22.62	23.76	23.65
3	1	14		22.68	23.79	23.58
3	8	0		21.51	21.68	22.36
3	8	4		21.54	21.75	22.36
3	8	7		21.50	21.79	21.99
3	15	0		21.33	21.70	22.27



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.22	23.78	23.82
5	1	12		23.28	23.78	23.9
5	1	24		23.27	23.79	23.87
5	12	0		22.88	23.12	23.23
5	12	6		22.88	23.15	23.2
5	12	11		22.82	23.21	23.2
5	25	0		22.91	23.19	23.27
5	1	0	16-QAM	22.84	23.22	23.27
5	1	12		22.75	23.31	23.33
5	1	24		22.84	23.29	23.35
5	12	0		21.36	21.62	22.22
5	12	6		21.41	21.63	22.20
5	12	11		21.40	21.66	22.23
5	25	0		21.50	21.75	22.21
10	1	0	QPSK	23.50	23.44	23.9
10	1	24		23.63	23.59	24.00
10	1	49		23.77	23.70	24.01
10	25	0		22.95	23.17	23.19
10	25	12		22.98	23.28	23.34
10	25	24		22.95	23.30	23.33
10	50	0		23.02	23.26	23.20
10	1	0	16-QAM	22.74	23.69	23.62
10	1	24		22.78	23.94	23.61
10	1	49		22.87	23.96	23.68
10	25	0		21.5	21.69	21.92
10	25	12		21.52	21.79	21.84
10	25	24		21.58	21.86	22.25
10	50	0		21.49	21.79	21.81



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.37	22.83	22.75
5	1	12		22.31	22.87	22.82
5	1	24		22.30	22.86	22.79
5	12	0		22.01	22.12	22.47
5	12	6		22.02	22.24	22.55
5	12	11		21.89	22.15	22.52
5	25	0		21.97	22.13	22.47
5	1	0		21.83	22.37	22.10
5	1	12	16-QAM	21.80	22.42	22.22
5	1	24		21.79	22.40	22.17
5	12	0		20.47	20.81	21.09
5	12	6		20.44	20.74	21.12
5	12	11		20.44	20.81	21.14
5	25	0		20.63	20.77	20.98
10	1	0	QPSK	22.63	22.64	22.91
10	1	24		22.62	22.66	23.07
10	1	49		22.59	22.68	23.17
10	25	0		21.98	22.17	22.38
10	25	12		21.96	22.24	22.46
10	25	24		21.90	22.30	22.52
10	50	0		21.94	22.27	22.52
10	1	0		21.83	22.72	22.50
10	1	24	16-QAM	21.74	22.77	22.71
10	1	49		21.71	22.81	22.75
10	25	0		20.51	20.94	21.07
10	25	12		20.55	20.89	21.09
10	25	24		20.50	20.89	21.15
10	50	0		20.52	20.83	21.11



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.58	22.56	22.62
15	1	37		22.57	22.61	22.81
15	1	74		22.49	22.65	23.01
15	36	0		21.98	22.13	22.18
15	36	18		21.88	22.09	22.35
15	36	39		21.89	22.27	22.42
15	75	0		21.88	22.18	22.37
15	1	0	16-QAM	21.78	22.78	21.92
15	1	38		21.76	22.81	22.11
15	1	75		21.59	22.83	22.31
15	36	0		20.53	20.79	20.80
15	36	18		20.44	20.79	20.94
15	36	39		20.42	20.74	21.05
15	75	0		20.55	20.85	21.00
20	1	0	QPSK	22.49	22.52	22.77
20	1	49		22.35	22.65	22.97
20	1	99		22.40	22.66	23.25
20	50	0		21.87	22.13	22.09
20	50	24		21.89	22.24	22.39
20	50	49		21.77	22.11	22.37
20	100	0		21.77	22.18	22.36
20	1	0	16-QAM	22.14	22.59	22.66
20	1	49		22.15	22.69	22.86
20	1	99		22.18	22.65	23.15
20	50	0		20.55	20.76	20.81
20	50	24		20.42	20.9	21.05
20	50	49		20.43	20.79	21.10
20	100	0		20.53	20.76	21.03



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.81	23.52	23.67
1.4	1	2		23.86	23.68	23.62
1.4	1	5		23.86	23.58	23.66
1.4	3	0		23.68	23.61	23.63
1.4	3	1		23.61	23.66	23.68
1.4	3	2		23.62	23.6	23.66
1.4	6	0		23.10	23.17	23.06
1.4	1	0	16-QAM	23.77	23.56	23.37
1.4	1	2		23.89	23.64	23.29
1.4	1	5		23.77	23.55	23.29
1.4	3	0		22.51	22.66	22.66
1.4	3	1		22.49	22.64	22.61
1.4	3	2		22.53	22.65	22.62
1.4	6	0		21.66	21.86	21.65
3	1	0	QPSK	23.80	23.53	23.73
3	1	7		23.79	23.61	23.87
3	1	14		23.81	23.53	23.68
3	8	0		23.14	23.06	23.02
3	8	4		22.99	23.24	22.99
3	8	7		23.21	23.15	23.09
3	15	0		22.99	23.11	23.08
3	1	0	16-QAM	22.83	23.54	23.45
3	1	7		22.80	23.58	23.42
3	1	14		22.89	23.56	23.36
3	8	0		21.50	21.57	21.87
3	8	4		21.58	21.50	21.77
3	8	7		21.58	21.57	21.69
3	15	0		21.45	21.55	21.70



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.47	23.74	23.66
5	1	12		23.50	23.80	23.62
5	1	24		23.56	23.82	23.63
5	12	0		23.11	23.11	23.05
5	12	6		23.18	23.12	23.10
5	12	11		23.09	23.13	23.08
5	25	0		23.23	23.24	23.07
5	1	0	16-QAM	22.96	23.26	23.11
5	1	12		23.03	23.30	23.11
5	1	24		23.05	23.30	23.10
5	12	0		21.43	21.53	21.65
5	12	6		21.62	21.51	21.76
5	12	11		21.56	21.50	21.72
5	25	0		21.70	21.46	21.75
10	1	0	QPSK	23.76	23.58	23.79
10	1	24		23.84	23.68	23.89
10	1	49		23.85	23.59	23.86
10	25	0		23.13	23.17	23.17
10	25	12		23.07	23.11	23.10
10	25	24		23.09	23.26	23.09
10	50	0		23.09	23.15	23.13
10	1	0	16-QAM	22.88	23.63	23.34
10	1	24		23.00	23.69	23.44
10	1	49		22.88	23.66	23.42
10	25	0		21.68	21.67	21.65
10	25	12		21.76	21.63	21.83
10	25	24		21.62	21.80	21.70
10	50	0		21.69	21.58	21.81



LTE BAND 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.51	23.78	23.72
5	1	12		23.50	23.81	23.68
5	1	24		23.53	23.75	23.66
5	12	0		23.11	23.06	23.12
5	12	6		23.20	23.18	23.05
5	12	11		23.04	23.18	23.11
5	25	0		23.07	23.21	23.14
5	1	0	16-QAM	23.03	23.24	23.07
5	1	12		22.91	23.34	23.07
5	1	24		22.92	23.36	23.03
5	12	0		21.57	21.46	21.66
5	12	6		21.55	21.61	21.67
5	12	11		21.49	21.50	21.68
5	25	0		21.60	21.62	21.75
10	1	0	QPSK	23.82	23.56	23.88
10	1	24		23.82	23.63	23.79
10	1	49		23.84	23.50	23.82
10	25	0		23.14	23.19	23.07
10	25	12		23.11	23.12	23.12
10	25	24		23.10	23.12	23.11
10	50	0		23.08	23.16	23.13
10	1	0	16-QAM	22.89	23.54	23.42
10	1	24		22.86	23.60	23.38
10	1	49		22.92	23.56	23.39
10	25	0		21.6	21.58	21.59
10	25	12		21.65	21.73	21.70
10	25	24		21.67	21.69	21.70
10	50	0		21.61	21.73	21.82



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.17	23.68	23.92
5	1	12		23.21	23.91	23.88
5	1	24		23.15	23.81	23.83
5	12	0		22.48	23.32	23.31
5	12	6		22.49	23.38	23.43
5	12	11		22.41	23.23	23.29
5	25	0		22.39	23.29	23.31
5	1	0	16-QAM	21.52	22.85	22.97
5	1	12		22.17	22.89	22.99
5	1	24		22.03	22.89	22.72
5	12	0		21.13	21.72	21.88
5	12	6		21.19	21.78	21.86
5	12	11		21.11	21.74	21.88
5	25	0		21.19	21.98	21.8
10	1	0	QPSK	22.99	23.40	23.44
10	1	24		23.00	23.53	23.41
10	1	49		22.89	23.53	23.35
10	25	0		22.53	23.04	22.99
10	25	12		22.49	23.10	23.01
10	25	24		22.52	23.2	23.03
10	50	0		22.47	23.18	22.93
10	1	0	16-QAM	21.96	22.93	22.72
10	1	24		21.90	23.05	22.63
10	1	49		21.91	23.05	22.61
10	25	0		21.15	21.86	21.81
10	25	12		21.17	21.80	21.66
10	25	24		21.13	21.88	21.70
10	50	0		21.08	21.85	21.63



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.89	23.34	23.56
15	1	37		22.91	23.53	23.39
15	1	74		22.79	23.59	23.39
15	36	0		22.46	22.99	22.98
15	36	18		22.51	23.06	22.99
15	36	39		22.46	23.14	22.87
15	75	0		22.34	23.11	22.91
15	1	0	16-QAM	21.91	22.76	23.00
15	1	38		21.90	23.04	23.02
15	1	75		21.80	23.1	23.01
15	36	0		21.11	21.67	21.59
15	36	18		21.13	21.73	21.60
15	36	39		21.09	21.82	21.51
15	75	0		21.04	21.77	21.58
20	1	0	QPSK	23.00	23.65	23.84
20	1	49		22.87	23.90	23.97
20	1	99		22.86	24.05	23.78
20	50	0		22.44	23.21	23.37
20	50	24		22.45	23.30	23.28
20	50	49		22.34	23.29	23.23
20	100	0		22.39	23.30	23.28
20	1	0	16-QAM	22.01	22.60	22.75
20	1	49		22.04	22.76	23.04
20	1	99		21.99	22.93	22.75
20	50	0		21.18	21.87	22.06
20	50	24		21.15	21.99	21.98
20	50	49		21.11	22.00	21.93
20	100	0		21.02	21.97	21.95



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.75	22.97	23.18
1.4	1	2		23.76	22.96	23.15
1.4	1	5		23.77	22.98	23.13
1.4	3	0		23.47	23.20	23.08
1.4	3	1		23.53	23.26	23.10
1.4	3	2		23.49	23.24	23.02
1.4	6	0		22.87	22.69	22.42
1.4	1	0	16-QAM	23.79	23.01	22.63
1.4	1	2		23.79	22.99	22.67
1.4	1	5		23.76	23.00	22.66
1.4	3	0		22.49	22.29	22.33
1.4	3	1		22.47	22.28	22.30
1.4	3	2		22.52	22.24	22.30
1.4	6	0		21.60	21.55	21.36
3	1	0	QPSK	23.74	22.90	23.19
3	1	7		23.78	22.94	23.19
3	1	14		23.75	23.01	23.11
3	8	0		22.94	22.77	22.45
3	8	4		22.99	22.73	22.48
3	8	7		22.95	22.75	22.42
3	15	0		22.96	22.72	22.47
3	1	0	16-QAM	22.78	22.98	22.67
3	1	7		22.73	22.98	22.69
3	1	14		22.76	23.05	22.65
3	8	0		21.64	21.26	21.32
3	8	4		21.61	21.28	21.29
3	8	7		21.54	21.26	21.31
3	15	0		21.42	21.47	21.32



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.35	23.49	23.21
5	1	12		23.35	23.51	23.16
5	1	24		23.39	23.51	23.13
5	12	0		22.98	22.78	22.54
5	12	6		23.00	22.75	22.63
5	12	11		22.99	22.86	22.63
5	25	0		23.07	22.79	22.56
5	1	0	16-QAM	22.89	22.91	22.78
5	1	12		22.88	22.91	22.65
5	1	24		22.90	22.99	22.73
5	12	0		21.41	21.21	21.29
5	12	6		21.44	21.25	21.18
5	12	11		21.42	21.28	21.17
5	25	0		21.62	21.31	21.23
10	1	0	QPSK	23.74	23.14	23.42
10	1	24		23.71	23.18	23.38
10	1	49		23.66	23.26	23.30
10	25	0		23.02	22.72	22.61
10	25	12		22.92	22.74	22.51
10	25	24		22.91	22.76	22.51
10	50	0		22.96	22.87	22.56
10	1	0	16-QAM	22.76	23.42	23.09
10	1	24		22.77	23.43	22.99
10	1	49		22.75	23.46	22.89
10	25	0		21.54	21.32	21.32
10	25	12		21.47	21.39	21.26
10	25	24		21.54	21.33	21.26
10	50	0		21.47	21.37	21.19



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.74	23.18	23.56
15	1	37		23.70	23.14	23.46
15	1	74		23.67	23.19	23.31
15	36	0		22.95	22.76	22.78
15	36	18		23.02	22.72	22.59
15	36	39		22.88	22.86	22.55
15	75	0		22.87	22.78	22.68
15	1	0	16-QAM	22.81	23.49	23.30
15	1	38		22.74	23.40	23.12
15	1	75		22.78	23.46	22.87
15	36	0		21.52	21.35	21.42
15	36	18		21.58	21.41	21.33
15	36	39		21.55	21.46	21.26
15	75	0		21.45	21.35	21.23
20	1	0	QPSK	23.67	23.28	23.65
20	1	49		23.57	23.32	23.42
20	1	99		23.6	23.40	23.24
20	50	0		23.01	22.82	22.68
20	50	24		22.94	22.78	22.60
20	50	49		22.84	22.72	22.59
20	100	0		23.00	22.81	22.72
20	1	0	16-QAM	23.1	22.92	23.56
20	1	49		23.08	22.86	23.44
20	1	99		23.12	22.98	23.15
20	50	0		21.55	21.36	21.38
20	50	24		21.60	21.33	21.37
20	50	49		21.66	21.41	21.24
20	100	0		21.57	21.40	21.40

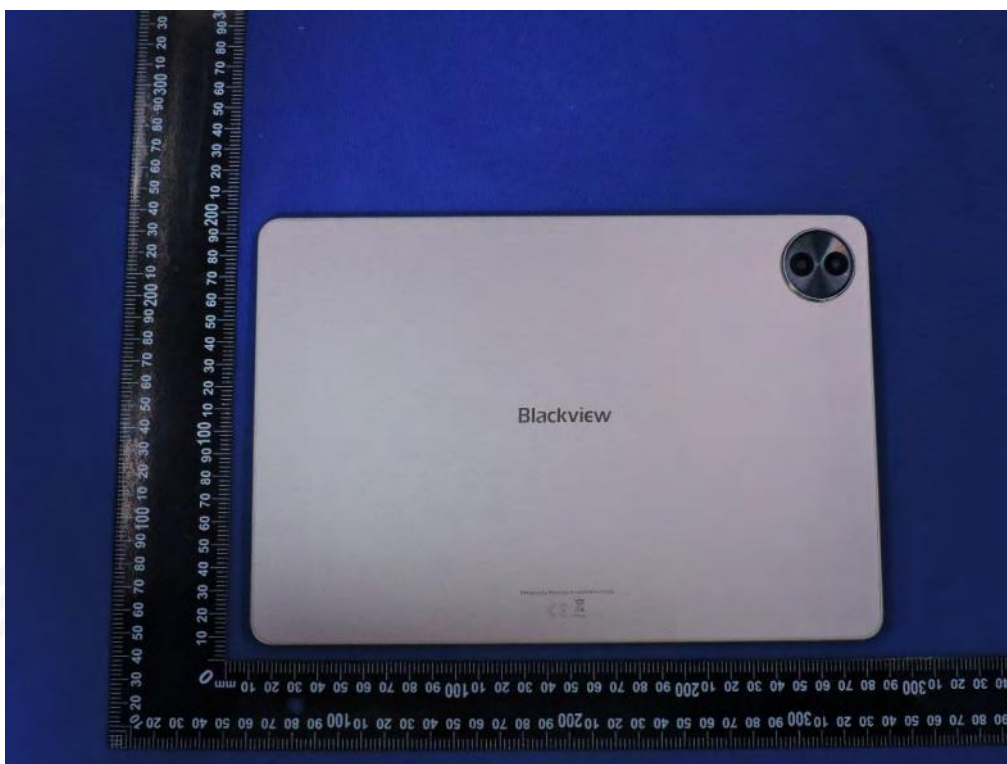
11. EUT and Test Setup Photo

10.1 EUT Photos

Front side



Back side



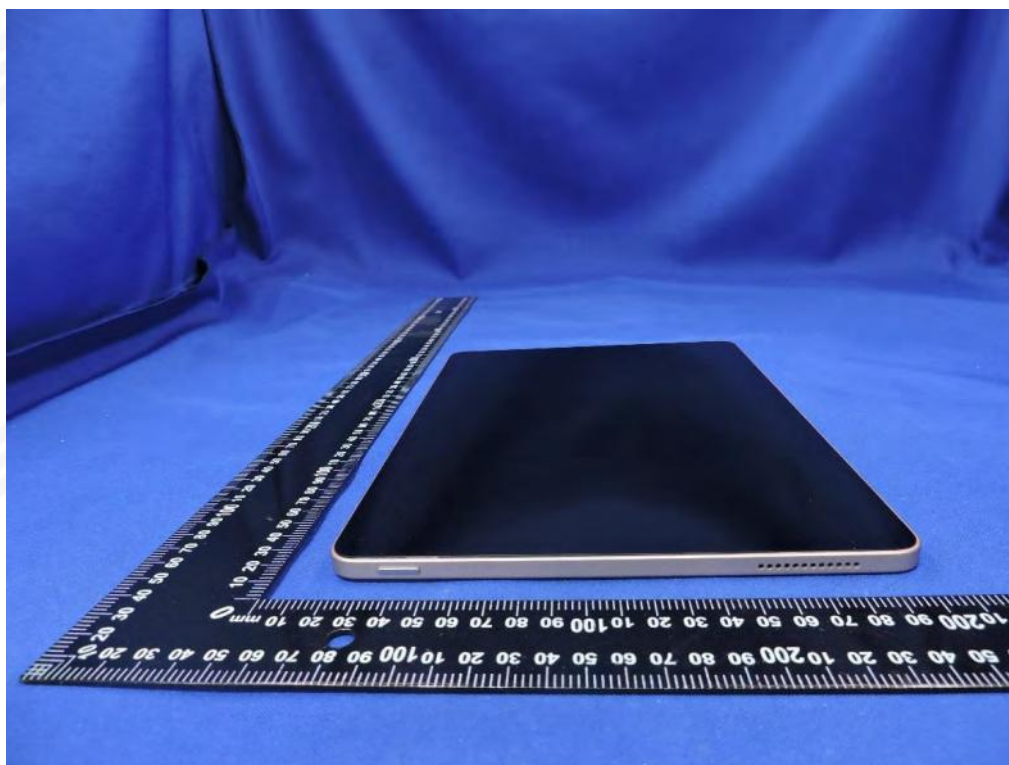
Top Edge



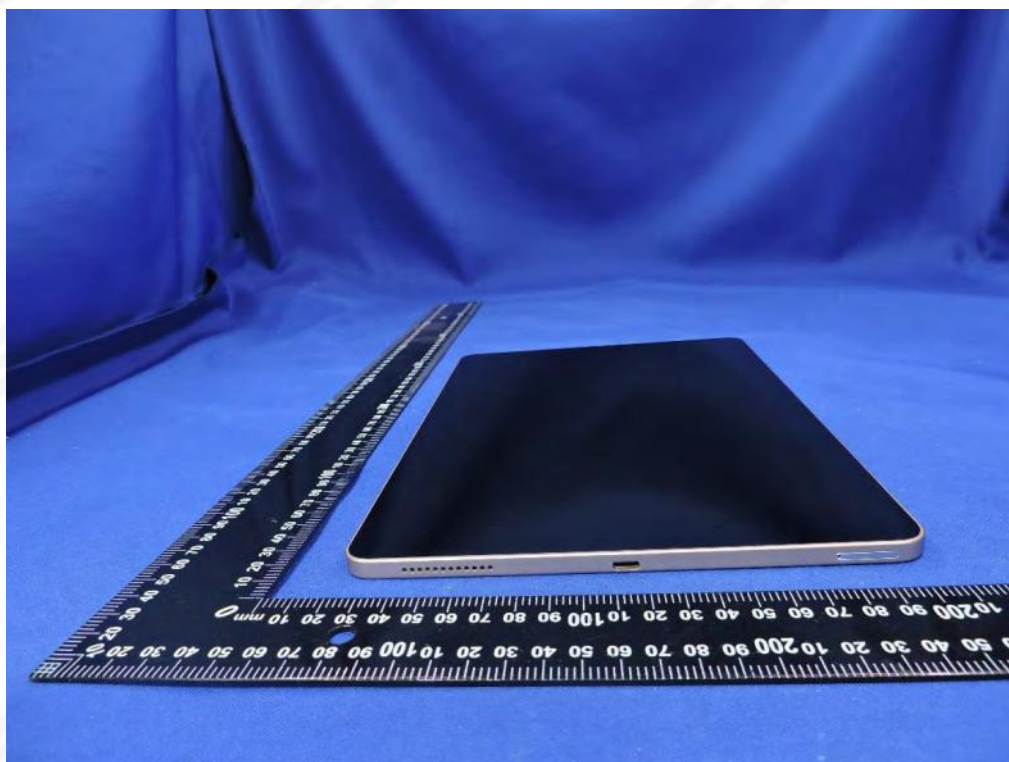
Bottom Edge



Left side

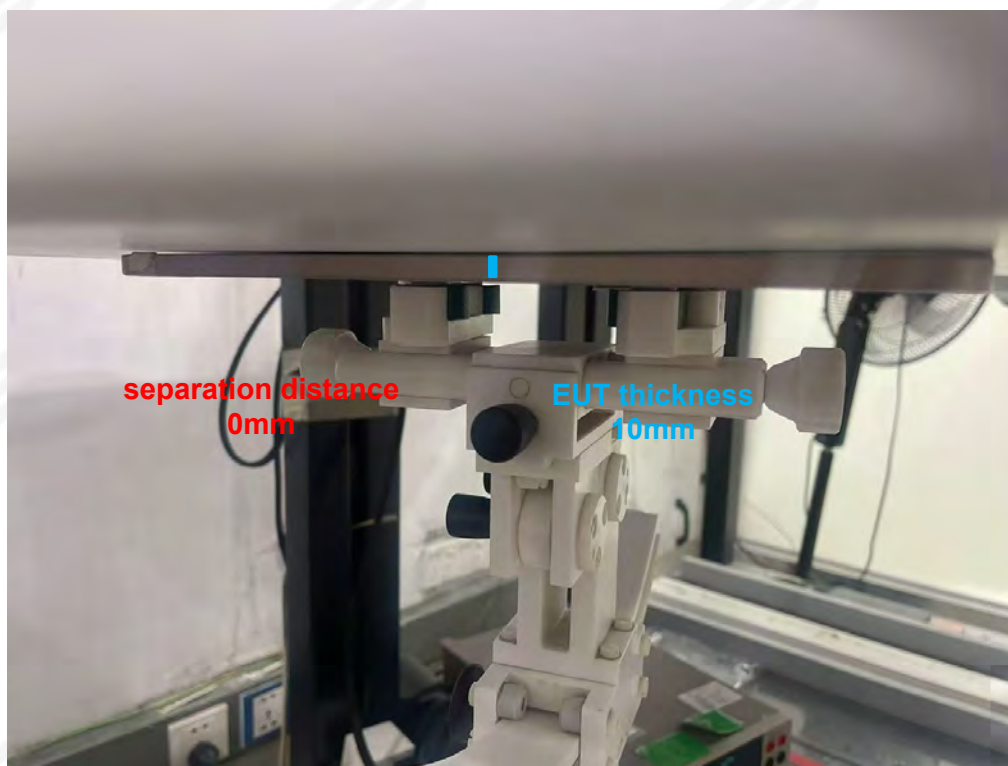


Right side



10.2 Setup Photos

Body Front side (separation distance is 0mm)



Body Back side (separation distance is 0mm)



Top side(separation distance is 0mm)

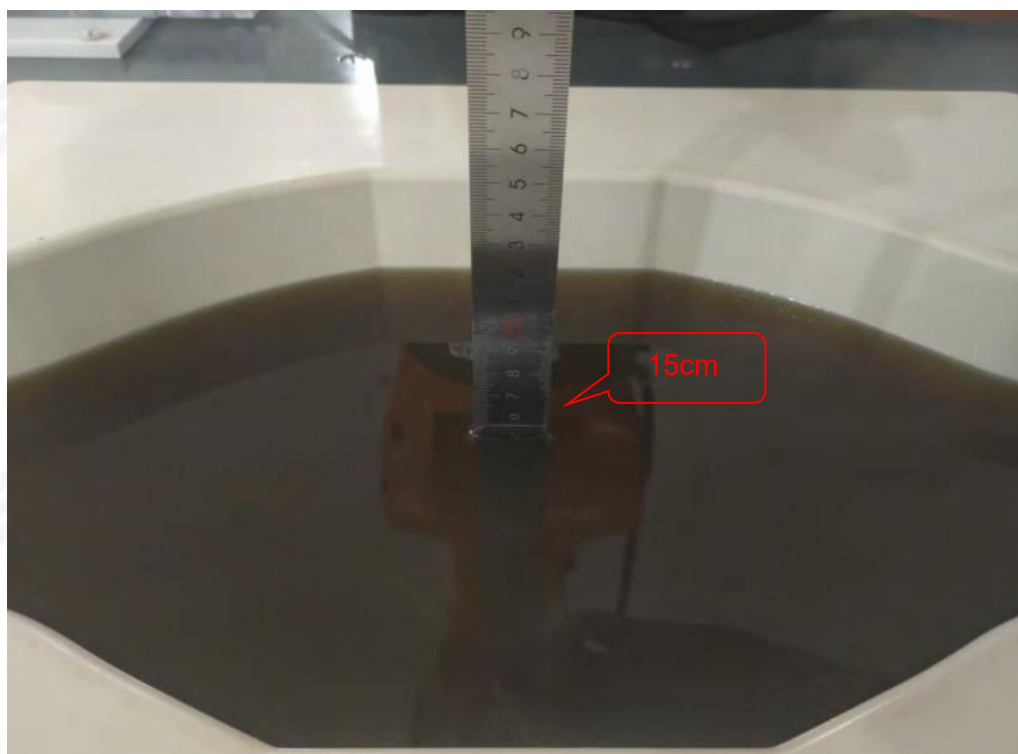


Left side(separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
GSM850	N/A	GPRS Data-3 Slot	N/A	N/A	Front Side	836.8	0.603	2.47	29.50	29.30	1.047	0.631	1
					Back Side	836.8	0.509	-0.78	29.50	29.30	1.047	0.533	/
					Left Side	836.8	0.042	1.38	29.50	29.30	1.047	0.044	/
					Right Side	836.8	0.014	-1.31	29.50	29.30	1.047	0.015	/
					Top Side	836.8	0.416	-3.65	29.50	29.30	1.047	0.436	/
					Bottom Side	836.8	0.009	-1.29	29.50	29.30	1.047	0.009	/
GSM1900	N/A	GPRS Data-3 Slot	N/A	N/A	Front Side	1850.2	0.698	-0.90	26.50	26.17	1.079	0.753	2
					Back Side	1850.2	0.531	-1.65	26.50	26.17	1.079	0.573	/
					Left Side	1850.2	0.038	0.47	26.50	26.17	1.079	0.041	/
					Right Side	1850.2	0.017	-0.61	26.50	26.17	1.079	0.018	/
					Top Side	1850.2	0.474	-3.77	26.50	26.17	1.079	0.511	/
					Bottom Side	1850.2	0.011	0.17	26.50	26.17	1.079	0.012	/
WCDMA Band II	N/A	RMC	N/A	N/A	Front Side	1852.5	0.766	-0.01	23.00	22.50	1.122	0.859	/
					Front Side	1880	0.783	1.73	23.00	22.50	1.122	0.879	/
					Front Side	1907.5	0.851	-0.79	23.00	22.57	1.104	0.940	3
					Back Side	1907.5	0.791	3.29	23.00	22.57	1.104	0.873	/
					Top Side	1907.5	0.605	1.08	23.00	22.57	1.104	0.668	/
					Bottom Side	1907.5	0.605	1.08	23.00	22.57	1.104	0.668	/
WCDMA Band V	N/A	RMC	N/A	N/A	Front Side	826.4	0.835	2.01	23.50	23.39	1.026	0.856	/
					Front Side	836.6	0.831	1.91	24.00	23.73	1.064	0.884	/
					Front Side	846.6	0.861	3.43	24.00	23.83	1.040	0.895	4
					Back Side	846.6	0.706	0.12	24.00	23.83	1.040	0.734	/
					Top Side	846.6	0.726	1.16	24.00	23.83	1.040	0.755	/
					Bottom Side	846.6	0.726	1.16	24.00	23.83	1.040	0.755	/
WCDMA Band IV	N/A	RMC	N/A	N/A	Front Side	1712.5	0.821	-2.10	23.00	22.80	1.047	0.860	/
					Front Side	1732.5	0.839	1.56	23.50	23.23	1.064	0.893	/
					Front Side	1752.5	0.855	1.91	24.00	23.76	1.057	0.904	5
					Back Side	1752.5	0.675	-2.92	24.00	23.76	1.057	0.713	/
					Top Side	1752.5	0.731	1.33	24.00	23.76	1.057	0.773	/
					Bottom Side	1752.5	0.731	1.33	24.00	23.76	1.057	0.773	/
LTE Band 2	20M	QPSK	1	0	Front side	1860	0.571	0.31	24.50	24.27	1.054	0.602	6
					Front side	1880	0.446	0.64	24.50	24.27	1.054	0.470	/
					Back Side	1860	0.508	1.42	24.50	24.27	1.054	0.536	/
					Back Side	1880	0.380	-0.19	24.50	24.27	1.054	0.401	/
					Left Side	1860	0.023	0.35	24.50	24.27	1.054	0.024	/
					Left Side	1880	0.017	0.33	24.50	24.27	1.054	0.018	/
LTE Band 4	20M	QPSK	1	0	Top Side	1860	0.396	1.70	24.50	24.27	1.054	0.418	/
					Top Side	1880	0.355	0.41	24.50	24.27	1.054	0.374	/
					Front side	1720	1.003	-3.14	24.00	23.72	1.067	1.070	7
					Front side	1732.5	0.943	1.95	24.00	23.61	1.094	1.032	/
					Front side	1770	0.953	-3.07	23.50	23.37	1.030	0.982	/
					Front side	1720	0.921	0.17	23.50	23.07	1.104	1.017	/
LTE Band 5	10M	QPSK	1	0	Back Side	1732.5	0.873	-0.77	24.00	23.72	1.067	0.931	/
					Back Side	1720	0.625	-0.25	23.50	23.07	1.104	0.690	/
					Top Side	1732.5	0.698	0.72	24.00	23.72	1.067	0.744	/
					Top Side	1720	0.550	1.38	23.50	23.07	1.104	0.607	/
					Front side	829	0.867	2.67	24.00	23.77	1.054	0.914	/
					Front side	836.8	0.848	1.93	24.00	23.7	1.072	0.909	/
LTE Band 5	10M	QPSK	1	0	Front side	844	0.922	-3.36	24.50	24.01	1.119	1.032	8
					Front side	844	0.764	0.20	23.50	23.34	1.038	0.793	/
					Back Side	836.8	0.719	-3.20	24.00	23.9	1.023	0.736	/
					Back Side	844	0.624	0.14	24.00	23.90	1.023	0.639	/
					Top Side	836.8	0.797	0.56	24.00	23.9	1.023	0.816	/
					Top Side	844	0.715	0.16	24.00	23.9	1.023	0.732	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
LTE Band 7	10M	QPSK	1	0	Front side	2510	0.927	-1.17	23.00	22.97	1.007	0.933	9
			1	0	Front side	2535	0.844	-2.95	23.00	22.65	1.084	0.915	/
			1	0	Front side	2560	0.869	-2.45	22.50	22.35	1.035	0.900	/
			50	0	Front side	2510	0.823	-3.50	22.5	22.39	1.026	0.844	/
			1	0	Back Side	2510	0.742	2.60	23.00	22.77	1.054	0.782	/
			50	0	Back Side	2510	0.651	-1.82	22.5	22.39	1.026	0.668	/
			1	0	Top Side	2510	0.658	2.95	23.00	22.77	1.054	0.694	/
			50	0	Top Side	2510	0.604	0.74	22.5	22.39	1.026	0.619	/
LTE Band 12	10M	QPSK	1	0	Front side	707.5	0.077	3.58	24.00	23.58	1.102	0.085	10
			25	0	Front side	711	0.043	0.68	23.5	23.26	1.057	0.045	/
			1	0	Back Side	707.5	0.065	-0.54	24.00	23.58	1.102	0.072	/
			25	0	Back Side	711	0.038	2.90	23.5	23.26	1.057	0.040	/
			1	0	Top Side	707.5	0.049	2.48	24.00	23.58	1.102	0.054	/
			25	0	Top Side	711	0.035	2.21	23.5	23.26	1.057	0.037	/
			1	0	Front side	711	0.088	0.69	24.00	23.56	1.107	0.097	11
			25	0	Front side	710	0.065	-0.73	23.5	23.19	1.074	0.070	/
LTE Band 17	10M	QPSK	1	0	Back Side	711	0.050	-3.59	24.00	23.56	1.107	0.055	/
			25	0	Back Side	710	0.041	-2.75	23.5	23.19	1.074	0.044	/
			1	0	Top Side	711	0.075	2.83	24.00	23.56	1.107	0.083	/
			25	0	Top Side	710	0.066	1.72	23.5	23.19	1.074	0.071	/
			1	0	Front Side	2593	0.583	-1.63	24.50	24.05	1.109	0.647	12
			50	0	Front Side	2680	0.420	-3.23	23.5	23.37	1.030	0.433	/
			1	0	Back Side	2593	0.495	2.73	24.50	24.05	1.109	0.549	/
			50	0	Back Side	2680	0.415	-0.95	23.5	23.37	1.030	0.428	/
LTE Band 41	20M	QPSK	1	0	Left Side	2593	0.042	-0.25	24.50	24.05	1.109	0.047	/
			50	0	Left Side	2680	0.021	0.71	23.5	23.37	1.030	0.022	/
			1	0	Right Side	2593	0.012	1.27	24.50	24.05	1.109	0.013	/
			50	0	Right Side	2680	0.070	1.03	23.5	23.37	1.030	0.072	/
			1	0	Top Side	2593	0.524	-0.85	24.50	24.05	1.109	0.581	/
			50	0	Top Side	2680	0.443	-2.27	23.5	23.37	1.030	0.456	/
			1	0	Bottom Side	2593	0.008	0.95	24.50	24.05	1.109	0.009	/
			50	0	Bottom Side	2680	0.005	0.64	23.5	23.37	1.030	0.005	/
			1	0	Front side	1720	0.838	1.61	24.00	23.67	1.079	0.904	13
			1	0	Front side	1745	0.804	1.00	23.50	23.28	1.052	0.846	/
			1	0	Front side	1770	0.813	-2.09	24.00	23.65	1.084	0.881	/
			50	0	Front side	1720	0.626	0.53	23.5	23.01	1.119	0.701	/
LTE Band 66	20M	QPSK	1	0	Back Side	1720	0.746	1.50	24.00	23.67	1.079	0.805	/
			50	0	Back Side	1745	0.608	-1.00	23.5	23.01	1.119	0.681	/
			1	0	Top Side	1770	0.691	1.91	24.00	23.67	1.079	0.746	/
			50	0	Top Side	1720	0.553	-2.45	23.5	23.01	1.119	0.619	/

Band	Mod.	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	802.11b	Front Side	2437	0.301	-1.01	19.00	18.54	1.112	0.335	/
		Back Side	2437	0.274	-1.93	19.00	18.54	1.112	0.305	/
		Top Side	2437	0.295	3.23	19.00	18.54	1.112	0.328	/
	802.11 n-HT20	Front Side	2437	0.322	2.38	20.50	20.18	1.076	0.347	14
		Back Side	2437	0.269	2.06	20.50	20.18	1.076	0.290	/
		Top Side	2437	0.321	-3.04	20.50	20.18	1.076	0.346	/
5.2GHz WLAN	802.11 n-HT20	Front Side	5240	0.328	-1.23	13.50	13.45	1.012	0.332	15
		Back Side	5240	0.275	2.49	13.50	13.45	1.012	0.278	/
		Top Side	5240	0.231	-1.42	13.50	13.45	1.012	0.234	/
5.8GHz WLAN	802.11 n-HT20	Front Side	5785	0.331	-2.39	13.50	13.35	1.035	0.343	16
		Back Side	5785	0.298	0.41	13.50	13.35	1.035	0.308	/
		Top Side	5785	0.176	-1.24	13.50	13.35	1.035	0.182	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**12.2 Repeated SAR**

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
WCDMA Band II	RMC	Front Side	1880	0.816	-2.81	23.00	22.57	0.901	-
WCDMA Band V	RMC	Front Side	826.5	0.839	0.35	24.00	23.83	0.873	-
WCDMA Band IV	RMC	Front Side	1712.6	0.849	-0.25	24.00	23.76	0.897	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
LTE Band 4	20M	QPSK	1	0	Front Side	1720	0.974	-2.74	24	23.72	1.039	-
LTE Band 5	10M	QPSK	1	0	Front Side	844	0.913	3.73	24.5	24.01	1.022	-
LTE Band 7	20M	QPSK	1	0	Front Side	2510	0.916	-2.07	23	22.97	0.922	-
LTE Band 66	20M	QPSK	1	0	Front Side	1720	0.835	-2.85	24	23.67	0.901	-

12.3 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
WCDMA Band II	RMC	Front Side	1907.5	0.851	0.816	1.042	-	-	-
WCDMA Band V	RMC	Front Side	846.6	0.861	0.839	1.026			
WCDMA Band IV	RMC	Front Side	1752.4	0.855	0.849	1.007		-	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
LTE Band 4	20M	QPSK	1	0	Front Side	1720	1.003	0.974	1.029	-	-	-
LTE Band 5	10M	QPSK	1	0	Front Side	844	0.922	0.913	1.010			
LTE Band 7	20M	QPSK	1	0	Front Side	2510	0.927	0.916	1.012			
LTE Band 66	20M	QPSK	1	0	Front Side	1720	0.838	0.835	1.004			

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg.
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.
3. 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.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√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. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
BT	Wrist	3.52	2.249	10	2402	0.046



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Body	GSM	0.753	1.100
		2.4G WLAN	0.347	
GSM + Bluetooth	Body	GSM	0.753	0.799
		Bluetooth	0.046	
GSM + 5G WLAN	Body	GSM	0.753	1.096
		5G WLAN	0.343	
WCDMA + 2.4G WLAN	Body	WCDMA	0.940	1.287
		2.4G WLAN	0.347	
WCDMA + Bluetooth	Body	WCDMA	0.940	0.986
		Bluetooth	0.046	
WCDMA + 5G WLAN	Body	WCDMA	0.940	1.283
		5G WLAN	0.343	
LTE + 2.4G WLAN	Body	LTE	1.070	1.417
		2.4G WLAN	0.347	
LTE + Bluetooth	Body	LTE	1.070	1.116
		Bluetooth	0.046	
LTE + 5G WLAN	Body	LTE	1.070	1.413
		5G WLAN	0.343	

NOTE:

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 SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

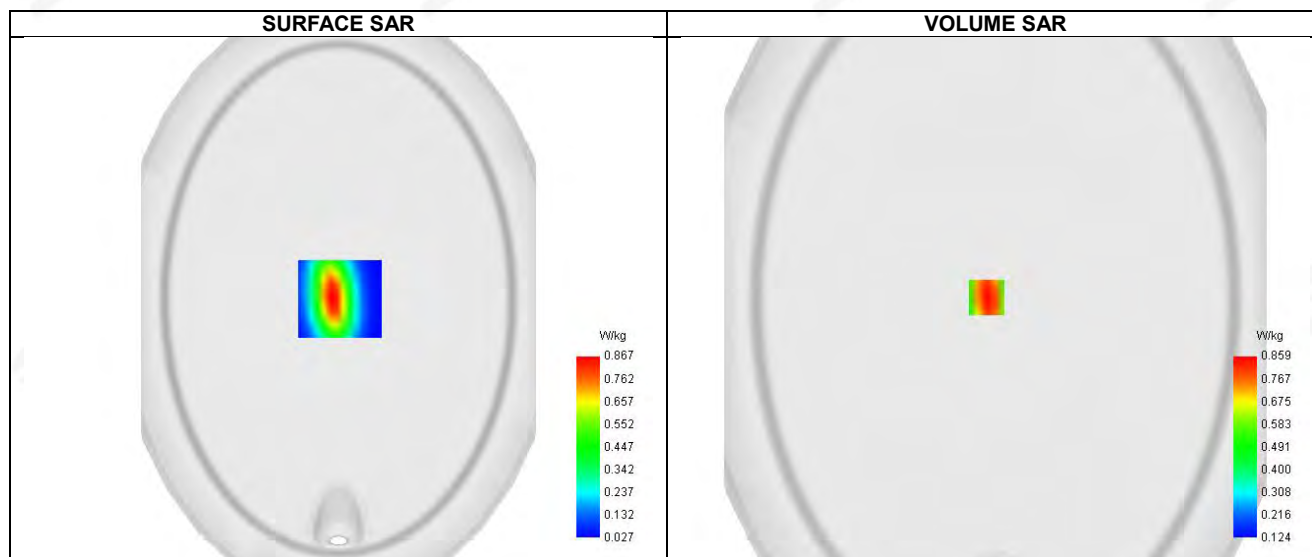
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-05

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.25
Conductivity (S/m)	0.89
Probe	SN 08/21 EPG0352
ConvF	1.56
Crest factor	1:1



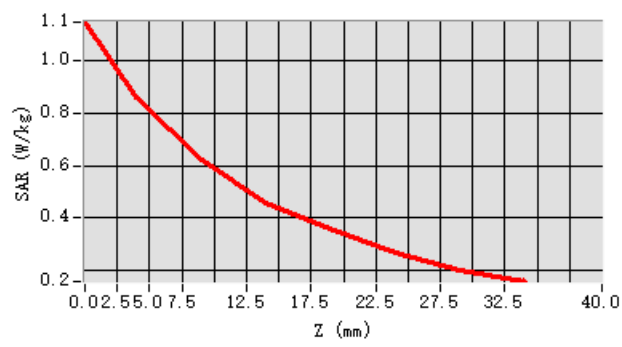
Maximum location: X=-8.00, Y=1.00 ; SAR Peak: 1.15 W/kg

D. SAR 1g & 10g

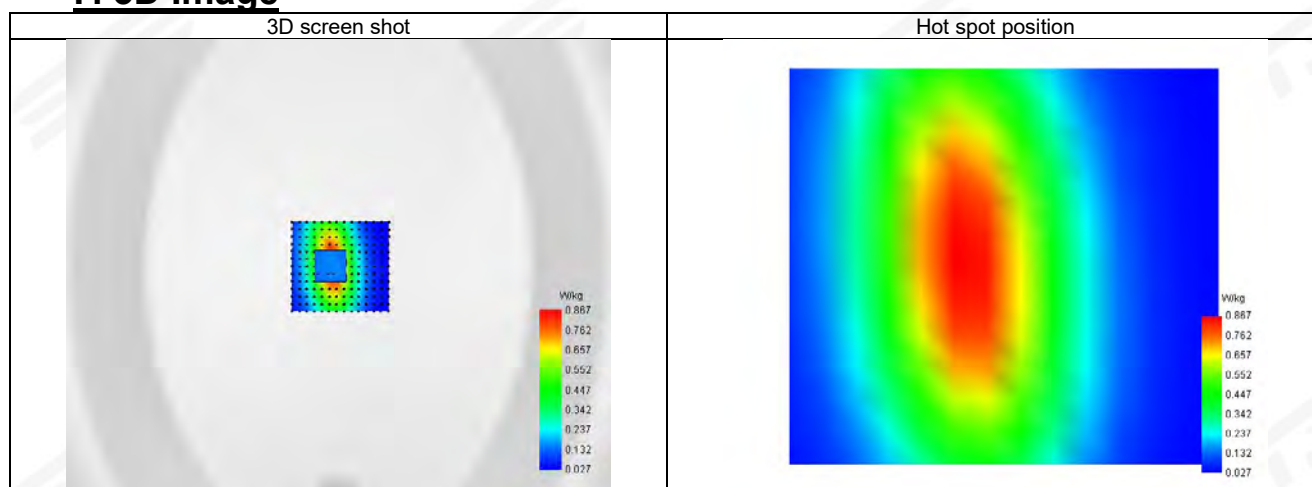
SAR 10g (W/Kg)	0.568
SAR 1g (W/Kg)	0.795
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.354941

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.145	0.859	0.622	0.459	0.357	0.269	0.202



F. 3D Image



**System Performance Check Data (835MHz)**

Type: Phone measurement (Complete)

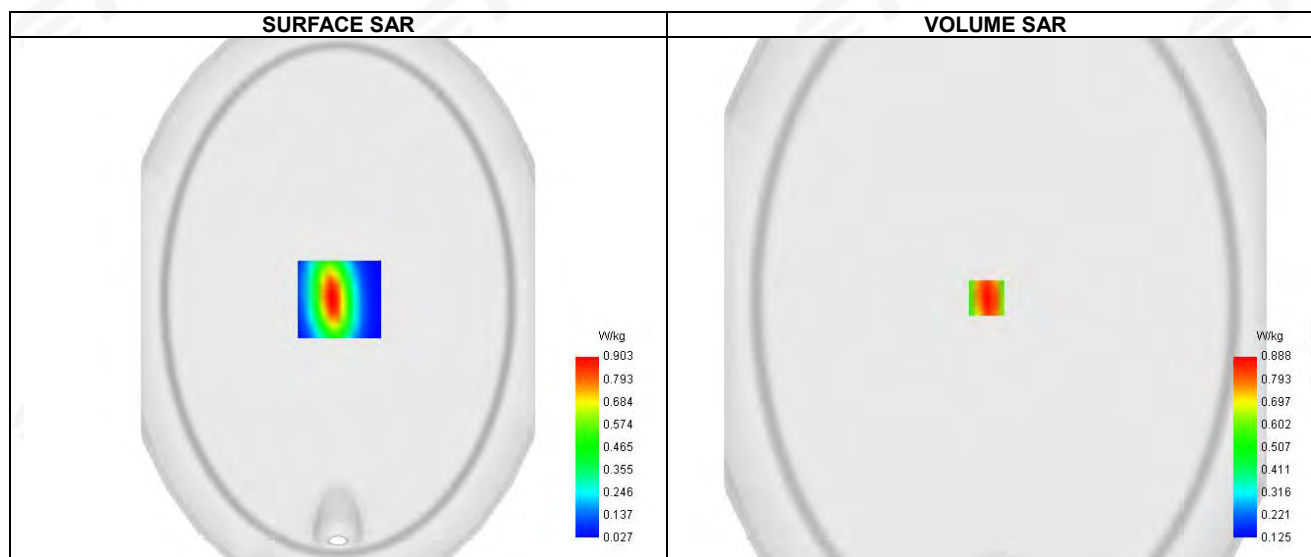
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-05

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	42.21
Conductivity (S/m)	0.92
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1



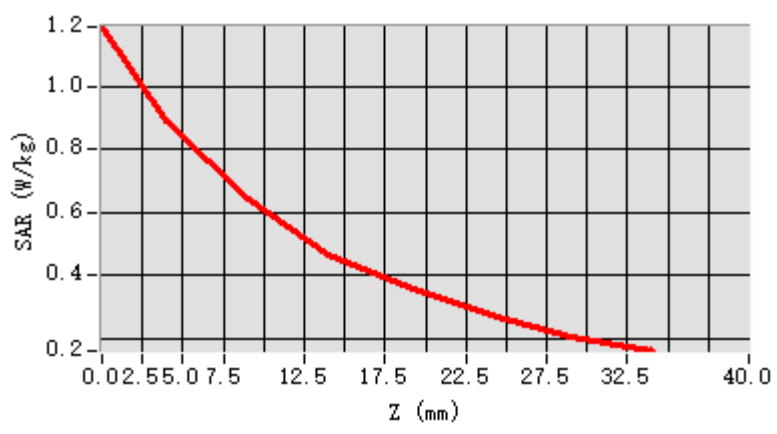
Maximum location: X=-8.00, Y=1.00 ; SAR Peak: 1.19 W/kg

D. SAR 1g & 10g

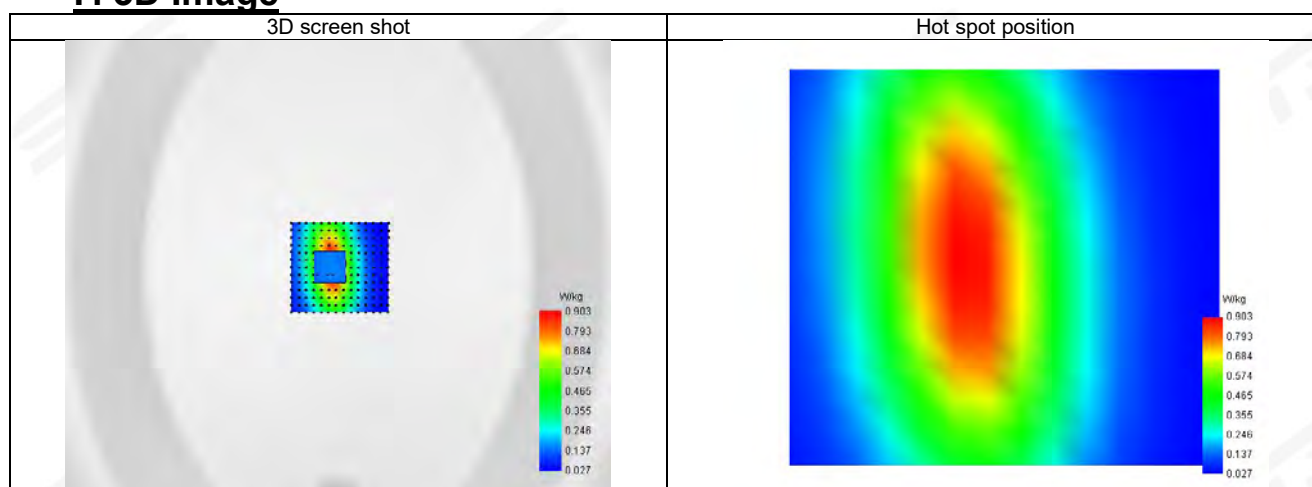
SAR 10g (W/Kg)	0.617
SAR 1g (W/Kg)	0.900
Variation (%)	-3.280
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.179452

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.188	0.888	0.641	0.469	0.366	0.275	0.206



F. 3D Image



**System Performance Check Data(1800MHz)**

Type: Phone measurement (Complete)

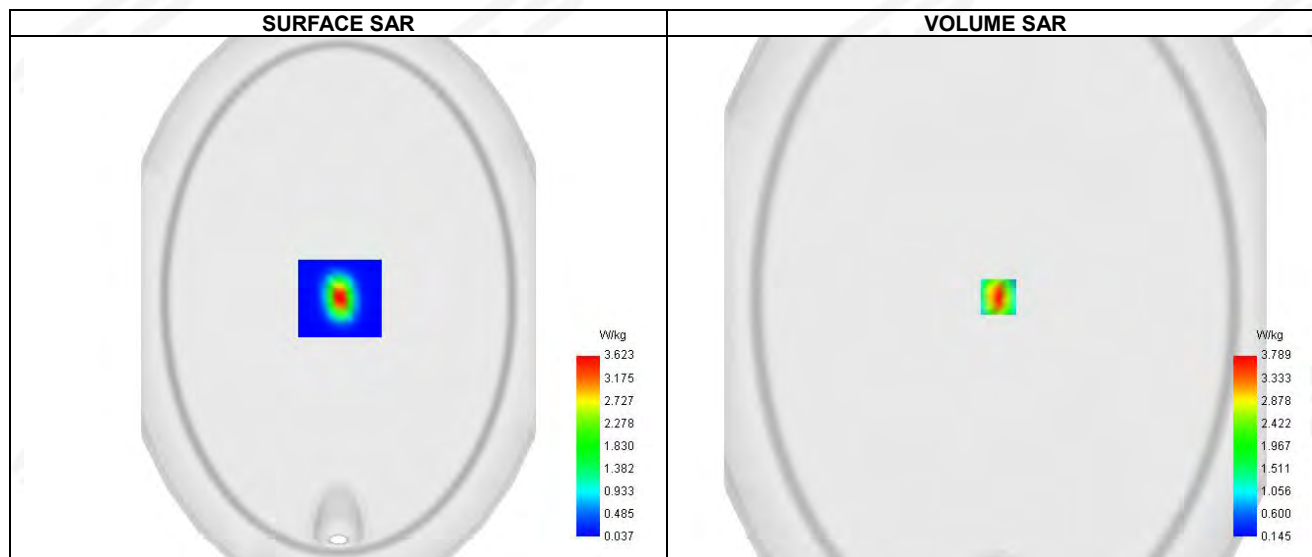
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-06

Experimental conditions.

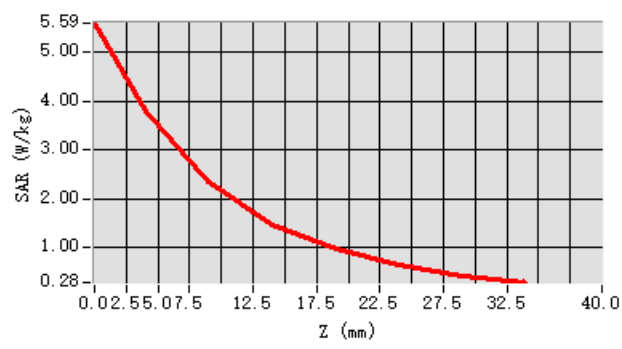
Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.65
Conductivity (S/m)	1.36
Probe	SN 08/21 EPGO352
ConvF	1.58
Crest factor:	1:1

**D. SAR 1g & 10g**

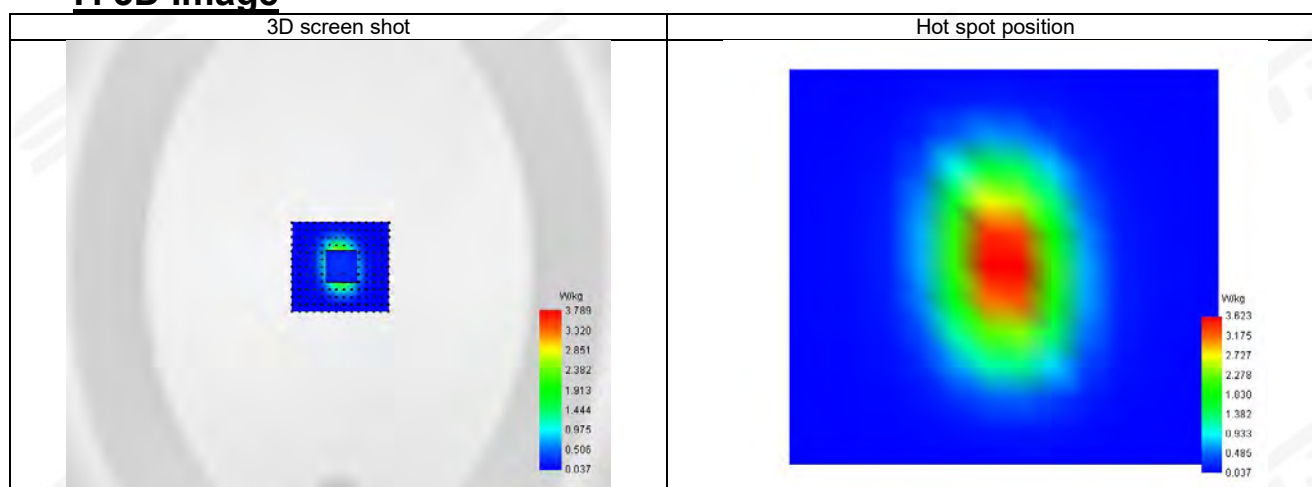
SAR 10g (W/Kg)	2.027
SAR 1g (W/Kg)	3.755
Variation (%)	-5.870
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.074988

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.588	3.789	2.352	1.479	0.986	0.633	0.407



F. 3D Image



**System Performance Check Data (1900MHz)**

Type: Phone measurement (Complete)

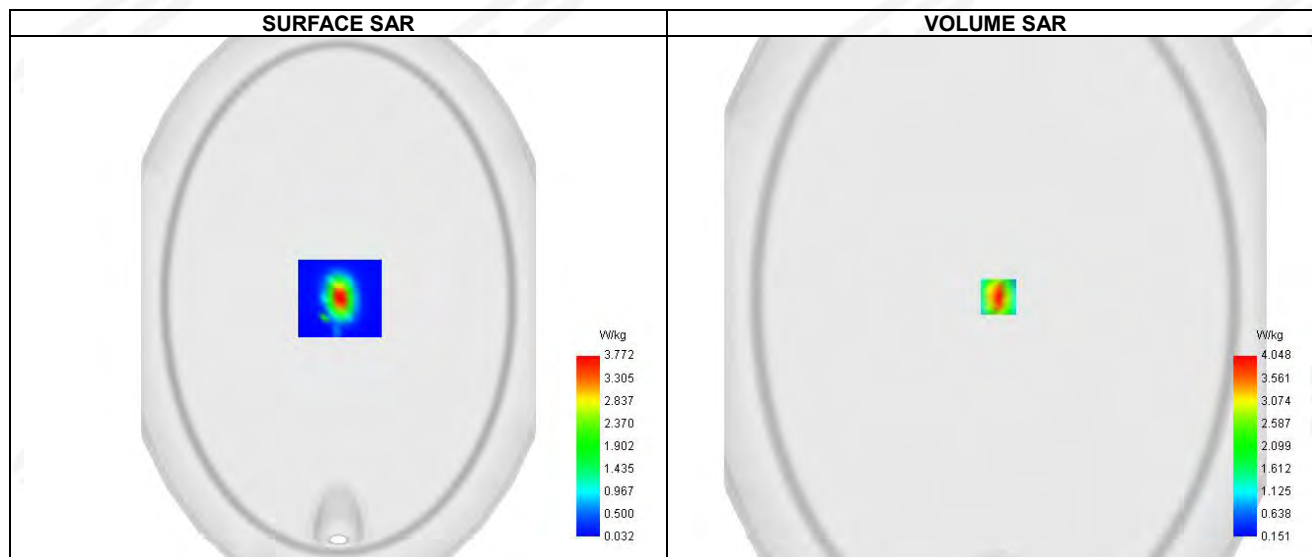
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-04

Experimental conditions.

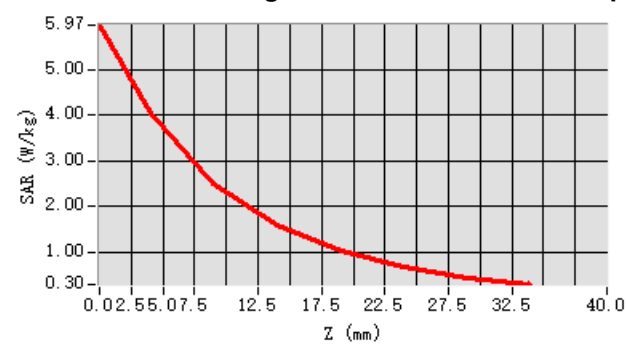
Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	39.83
Conductivity (S/m)	1.39
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1

**D. SAR 1g & 10g**

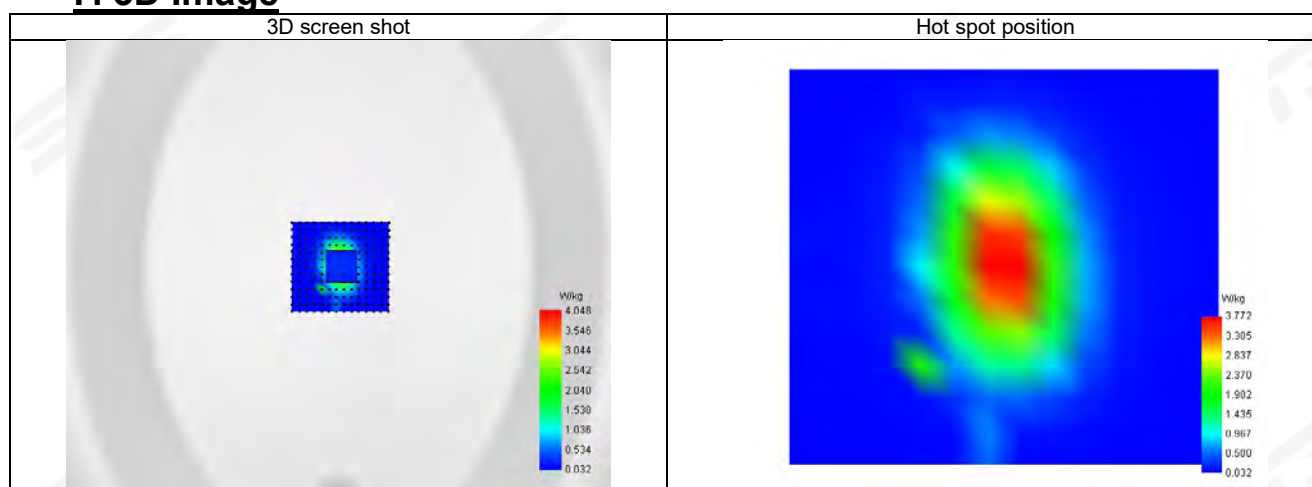
SAR 10g (W/Kg)	2.027
SAR 1g (W/Kg)	3.959
Variation (%)	-0.870
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.024489

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.966	4.048	2.511	1.580	1.047	0.671	0.430



F. 3D Image



**System Performance Check Data (2450MHz)**

Type: Phone measurement (Complete)

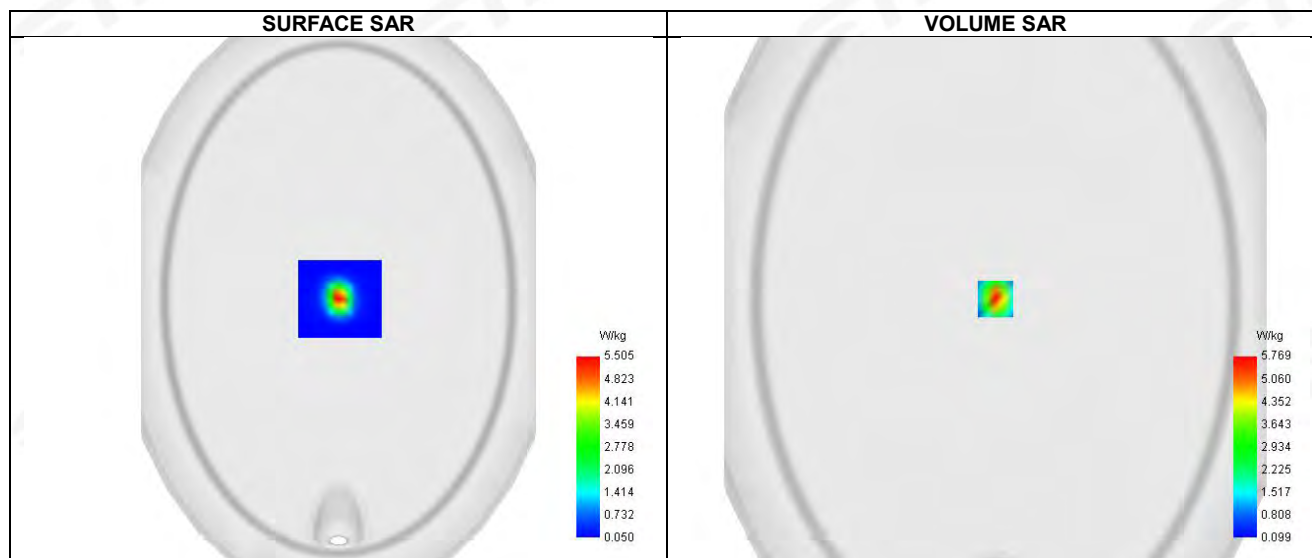
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-07

Experimental conditions.

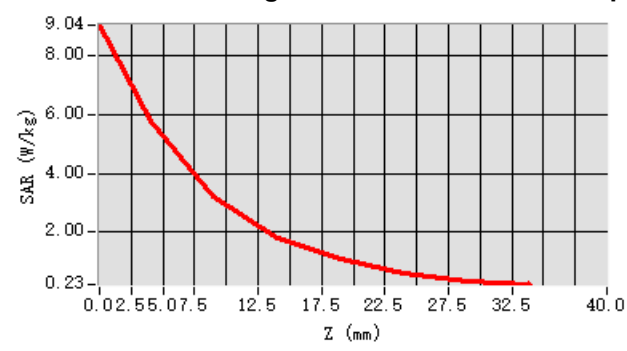
Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.57
Conductivity (S/m)	1.81
Probe	SN 08/21 EPG0352
ConvF	1.80
Crest factor:	1:1

**D. SAR 1g & 10g**

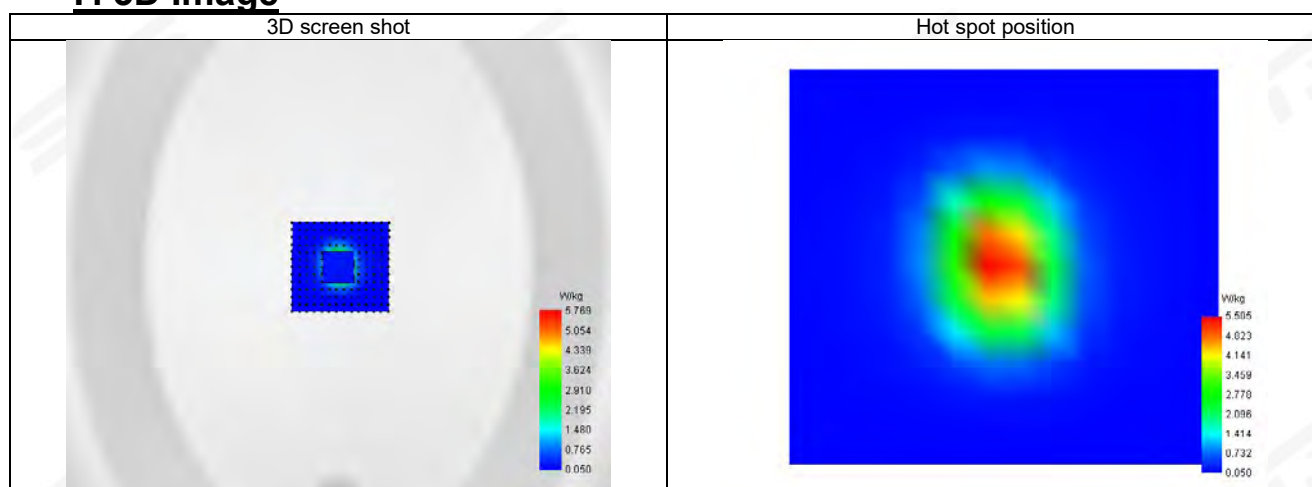
SAR 10g (W/Kg)	2.397
SAR 1g (W/Kg)	5.479
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.175300

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.035	5.769	3.241	1.829	1.088	0.627	0.361



F. 3D Image



**System Performance Check Data(2600MHz)**

Type: Phone measurement (Complete)

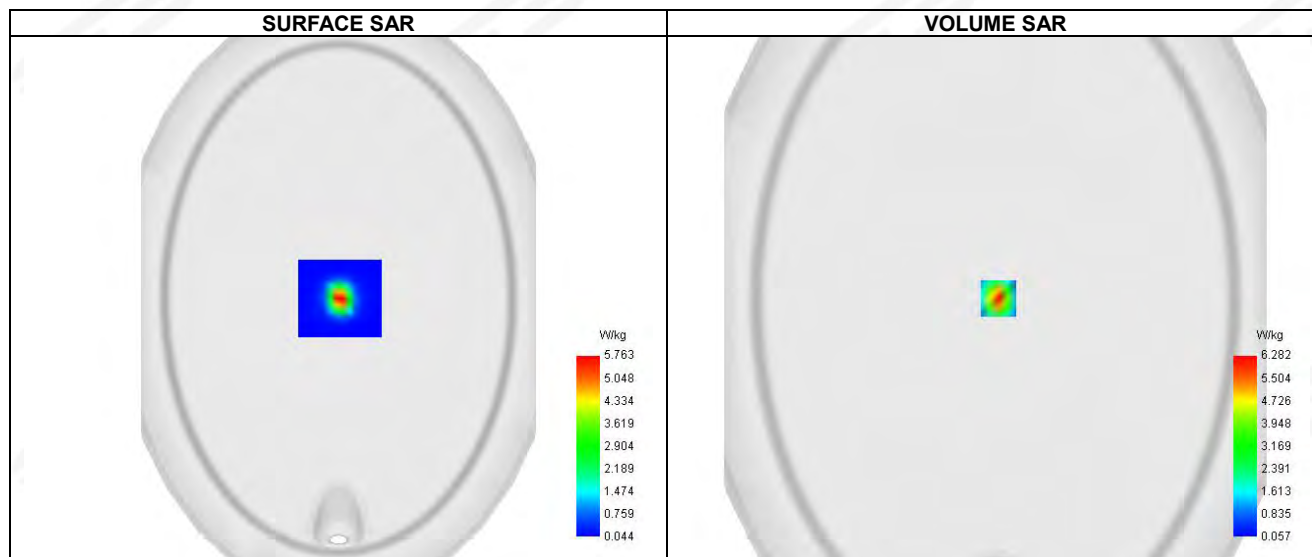
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-03-07

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.84
Conductivity (S/m)	1.94
Probe	SN 08/21 EPGO352
ConvF	1.74
Crest factor:	1:1



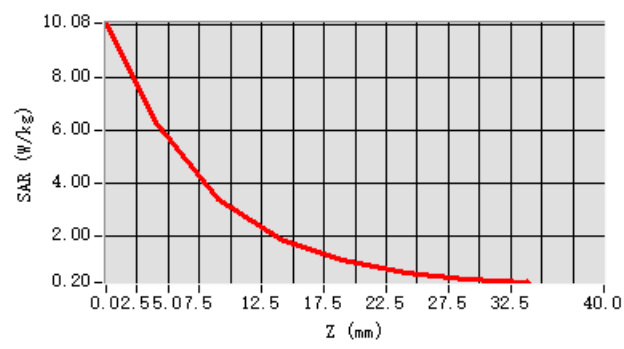
Maximum location: X=3.00, Y=0.00 ; SAR Peak: 10.00 W/kg

D. SAR 1g & 10g

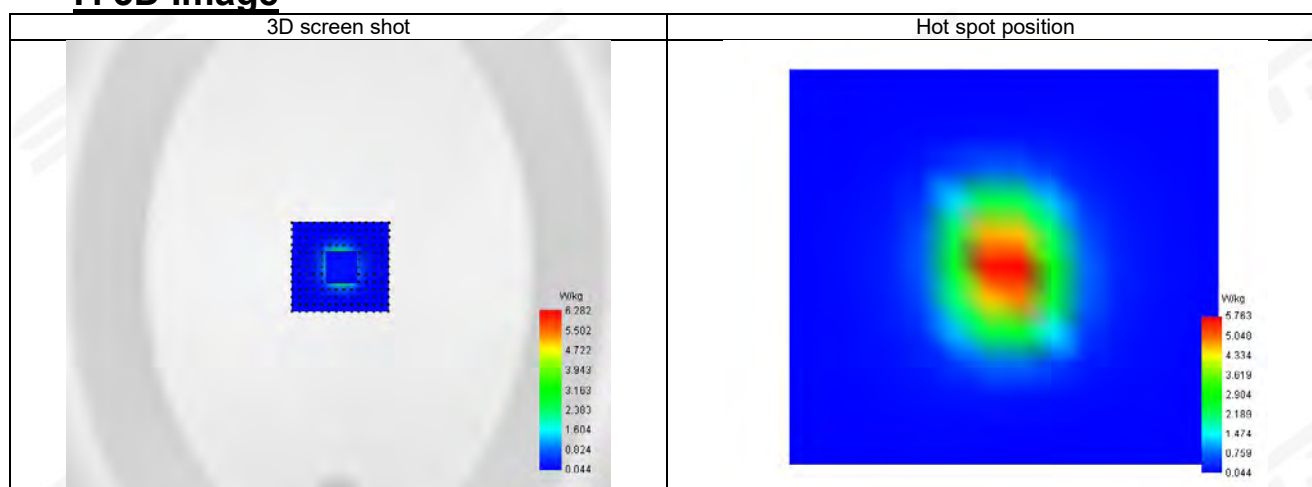
SAR 10g (W/Kg)	2.445
SAR 1g (W/Kg)	5.554
Variation (%)	0.840
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.025599

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.076	6.282	3.394	1.850	1.057	0.586	0.325



F. 3D Image



**System Performance Check Data (5200MHz)**

Type: Dipole measurement (Complete)

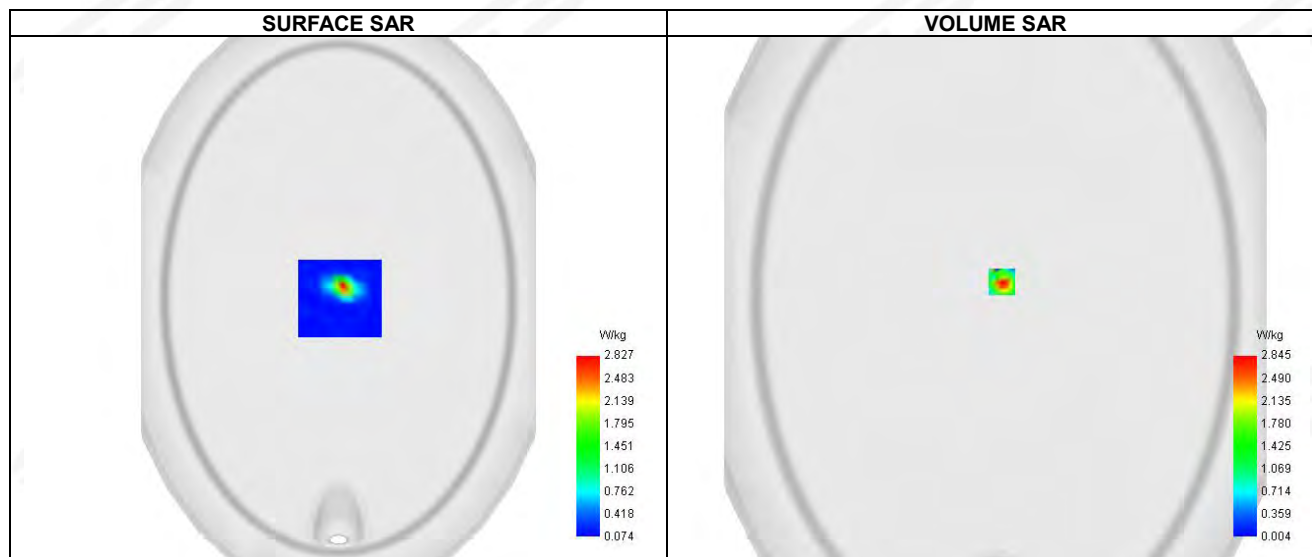
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-03-07

Experimental conditions.

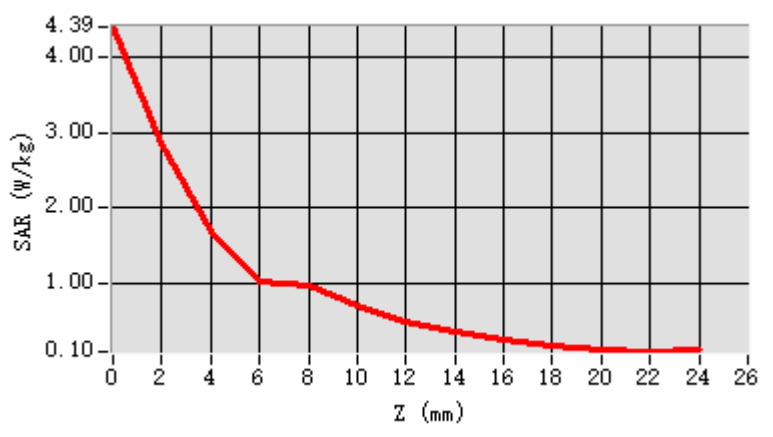
Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.28
Conductivity (S/m)	4.66
Probe	SN 08/21 EPGO352
ConvF	1.33
Crest factor:	1:1

**D. SAR 1g & 10g**

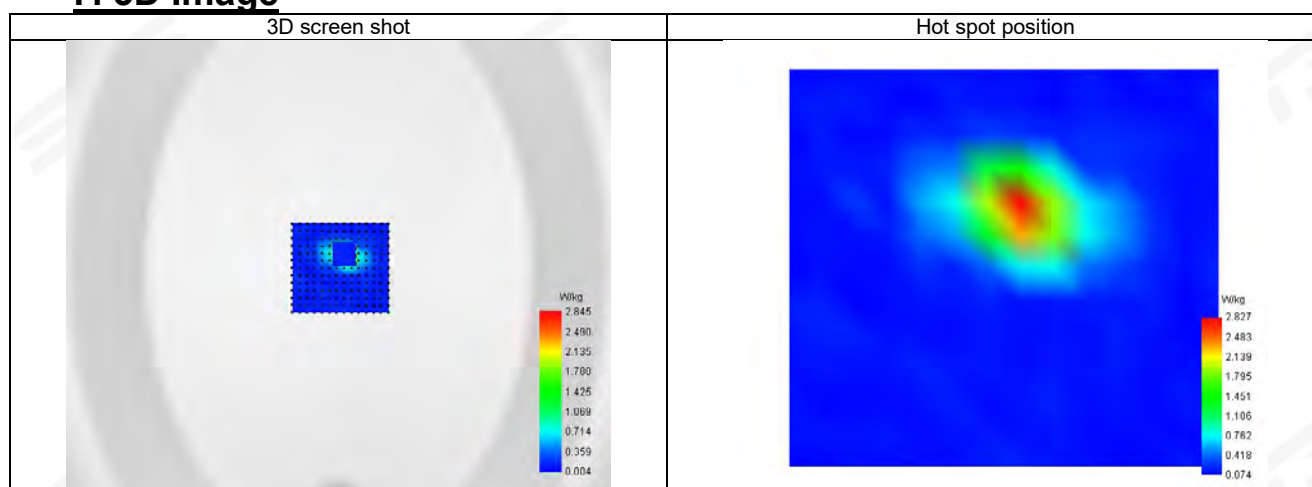
SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	1.536
Variation (%)	0.360
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	59.387325

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.394	2.845	1.689	1.035	0.962	0.698	0.506	0.366	0.266	0.192	0.140	0.101



F. 3D Image



**System Performance Check Data (5800MHz)**

Type: Dipole measurement (Complete)

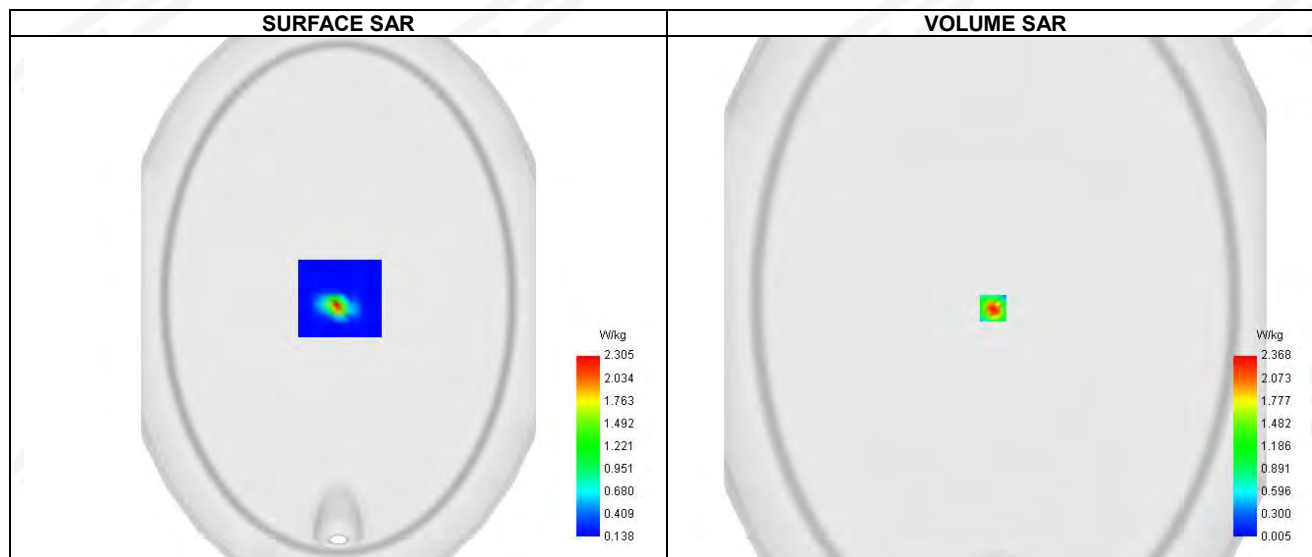
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-03-07

Experimental conditions.

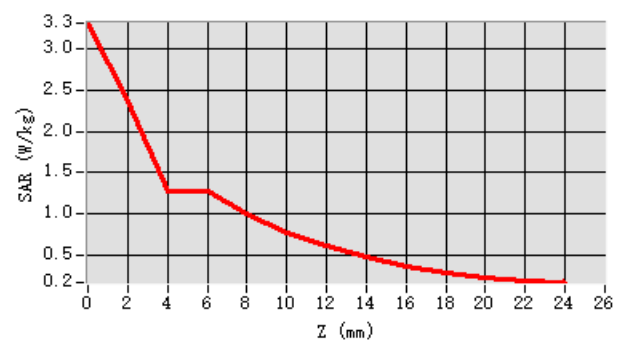
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.54
Conductivity (S/m)	5.25
Probe	SN 08/21 EPGO352
ConvF	1.35
Crest factor:	1:1

**D. SAR 1g & 10g**

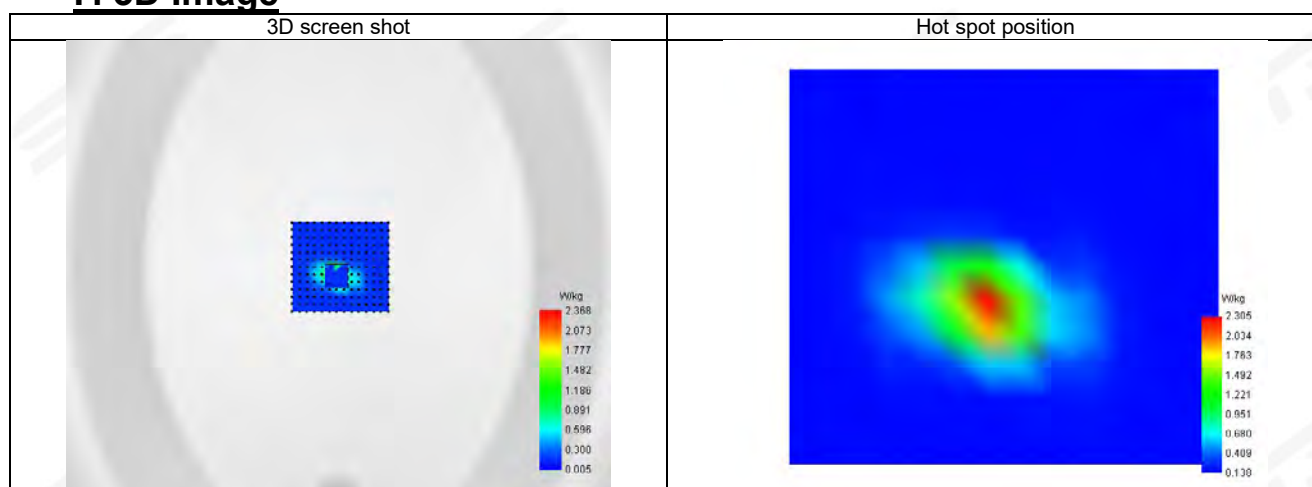
SAR 10g (W/Kg)	0.674
SAR 1g (W/Kg)	1.904
Variation (%)	-0.760
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.913679

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.319	2.368	1.277	1.270	0.988	0.769	0.598	0.465	0.362	0.281	0.219	0.170



F. 3D Image

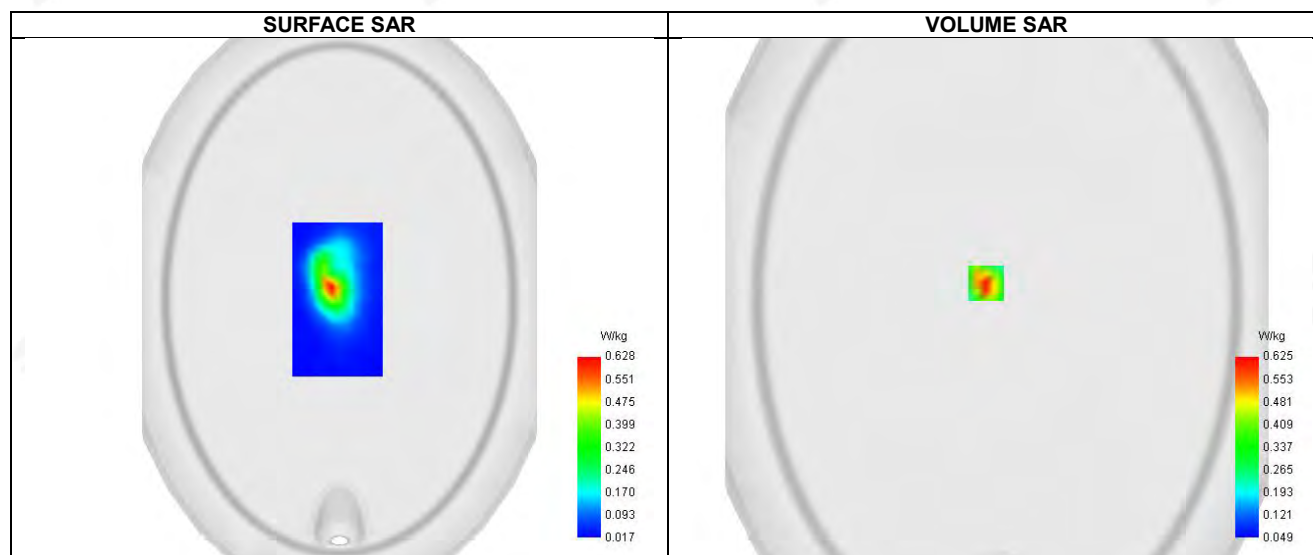




Appendix B. SAR Test Plots

Plot 1: DUT: Tablet PC; EUT Model: MEGA 5

Test Date	2026-03-05
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.8
Relative permittivity (real part)	42.25
Conductivity (S/m)	0.91

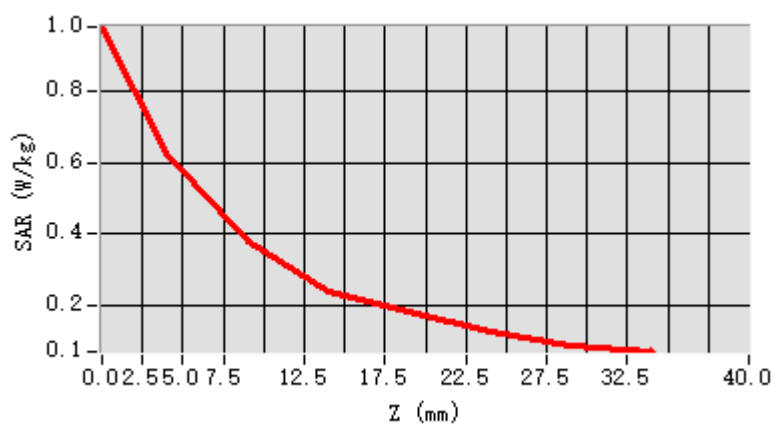


D. SAR 1g & 10g

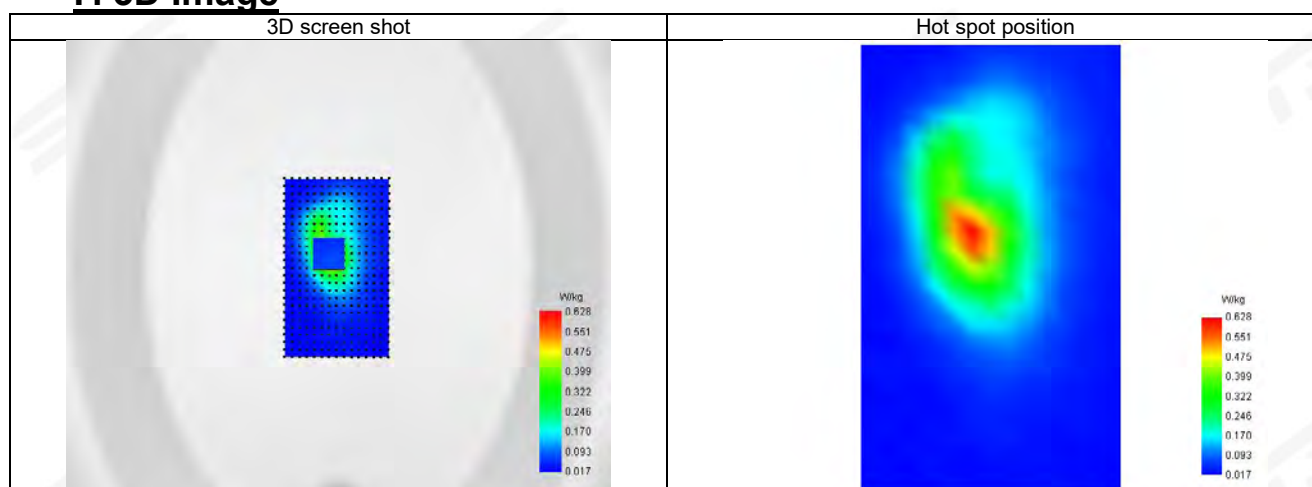
SAR 10g (W/Kg)	0.351
SAR 1g (W/Kg)	0.603
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.539912

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.979	0.625	0.378	0.237	0.183	0.124	0.084



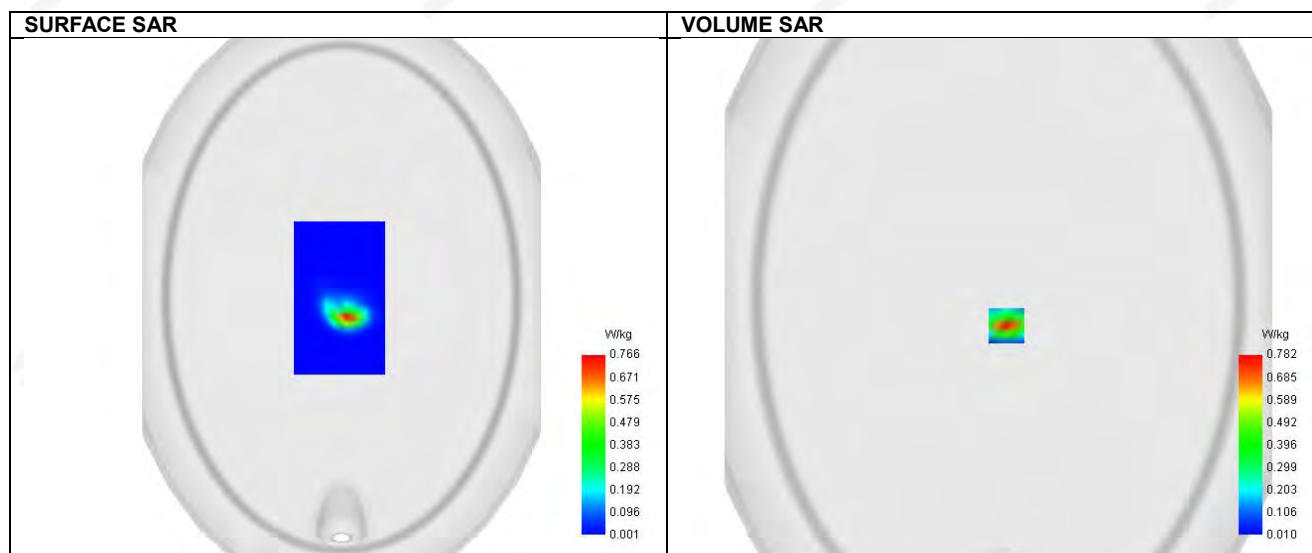
F. 3D Image





Plot 2: DUT: Tablet PC; EUT Model: MEGA 5

Test Date	2026-03-04
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1850.2
Relative permittivity (real part)	40.97
Conductivity (S/m)	1.39



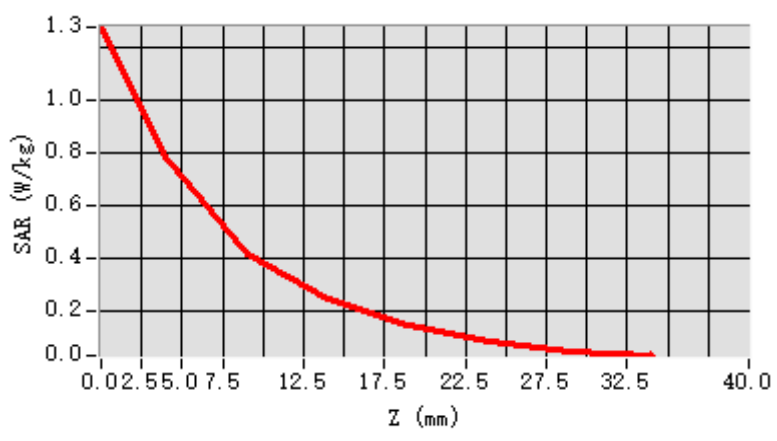
Maximum location: X=7.00, Y=-25.00 ; SAR Peak: 1.26 W/kg

D. SAR 1g & 10g

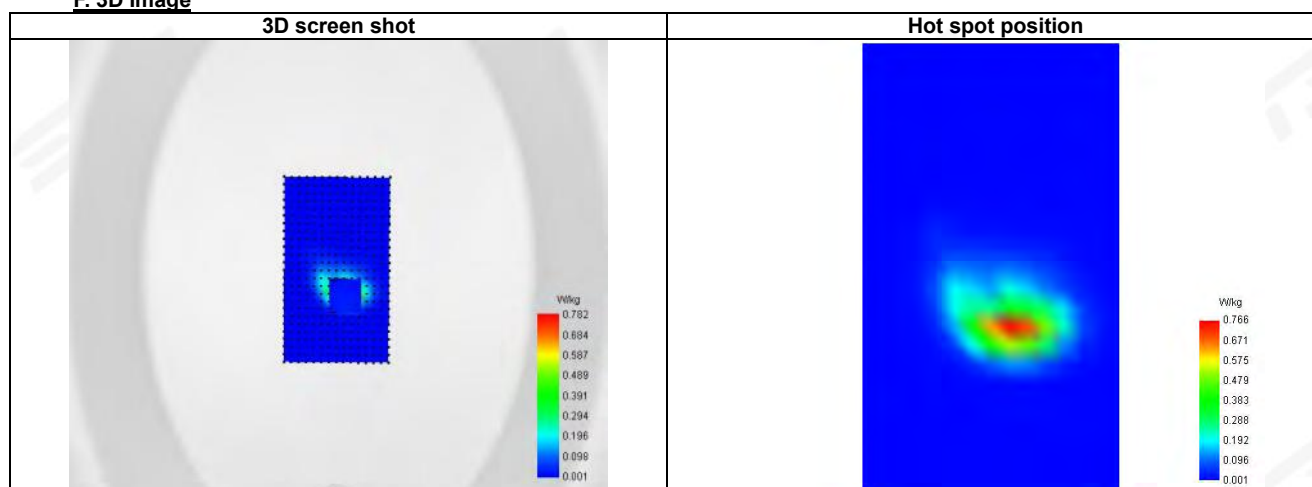
SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.698
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.205873

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.273	0.782	0.416	0.248	0.141	0.080	0.046

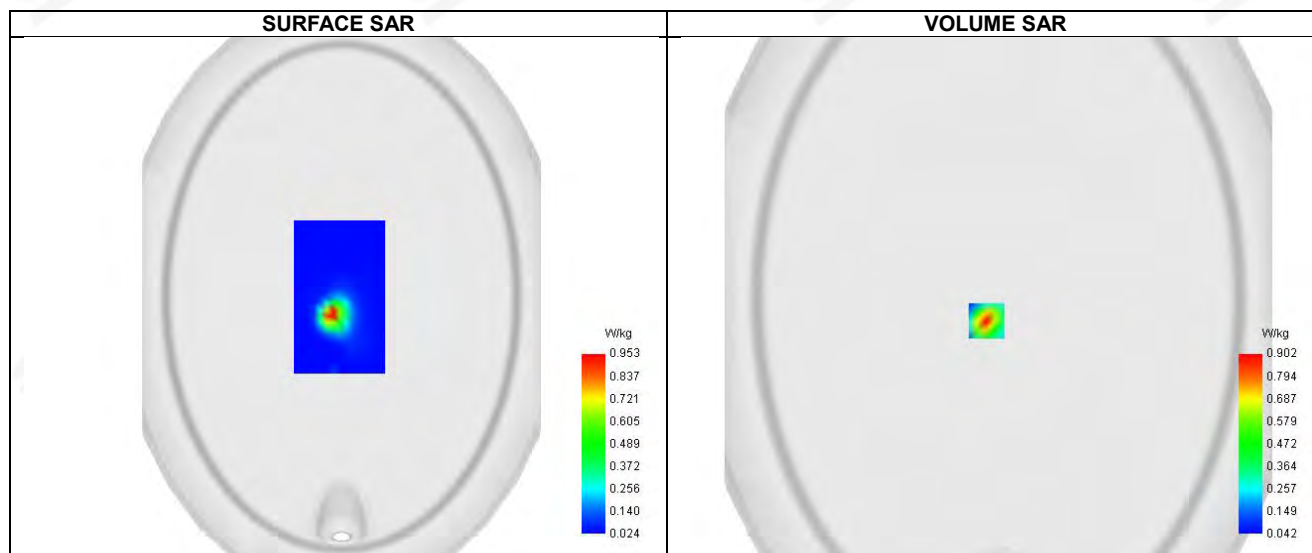


F. 3D Image



**Plot 3: DUT: Tablet PC; EUT Model: MEGA 5**

Test Date	2026-03-04
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.39
Conductivity (S/m)	1.38



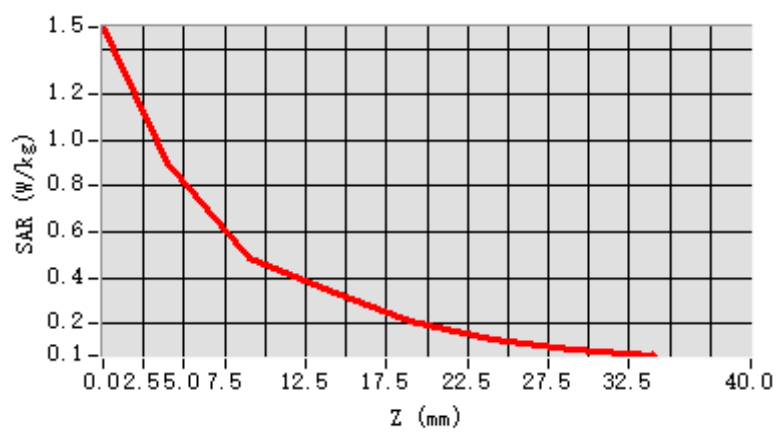
Maximum location: X=-11.00, Y=-22.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

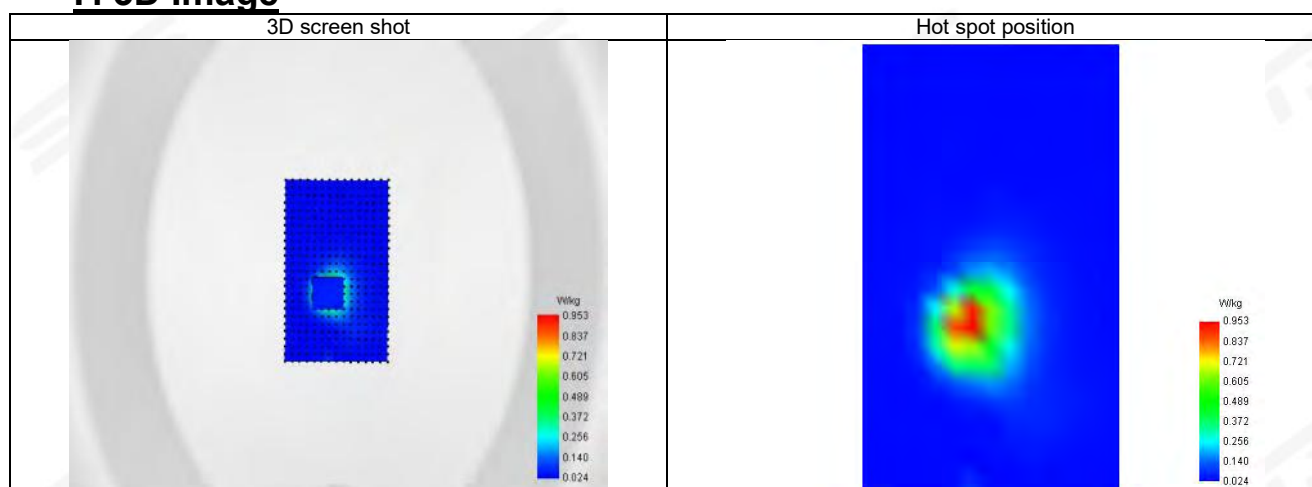
SAR 10g (W/Kg)	0.429
SAR 1g (W/Kg)	0.851
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.044391

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.493	0.902	0.487	0.343	0.217	0.137	0.087

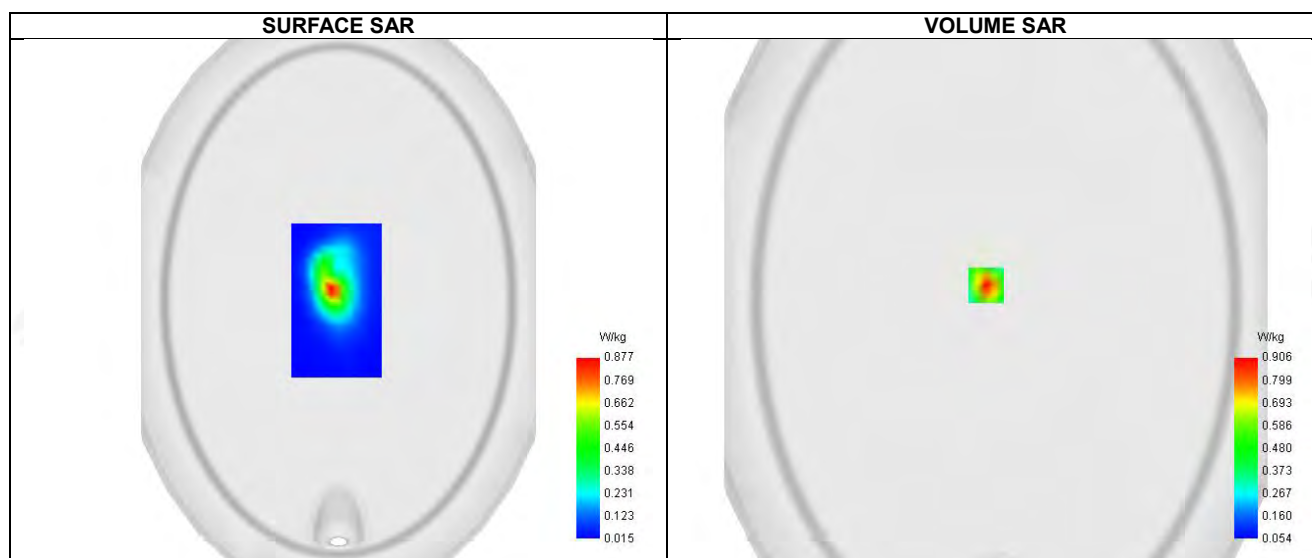


F. 3D Image



Plot 4: DUT: Tablet PC; EUT Model: MEGA 5

Test Date	2026-03-05
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	41.79
Conductivity (S/m)	0.89

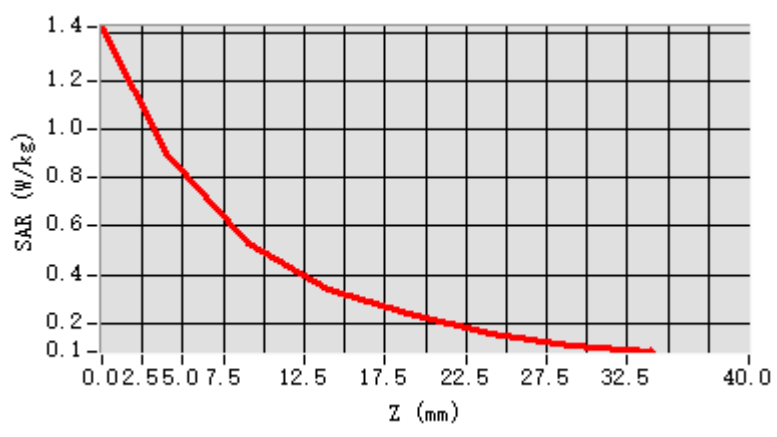


D. SAR 1g & 10g

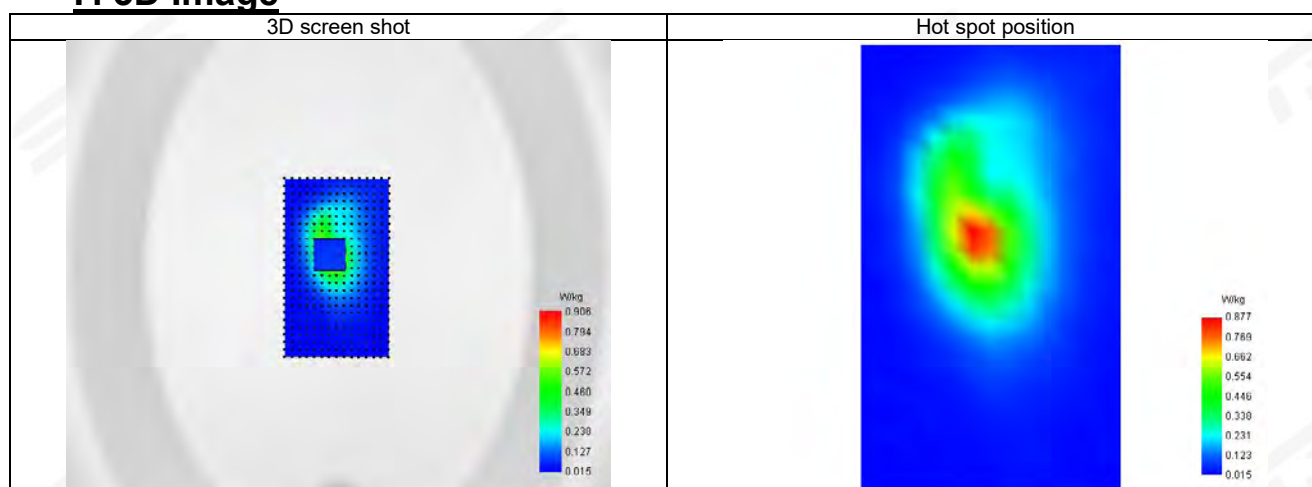
SAR 10g (W/Kg)	0.486
SAR 1g (W/Kg)	0.861
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.821648

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.427	0.906	0.533	0.335	0.239	0.156	0.102

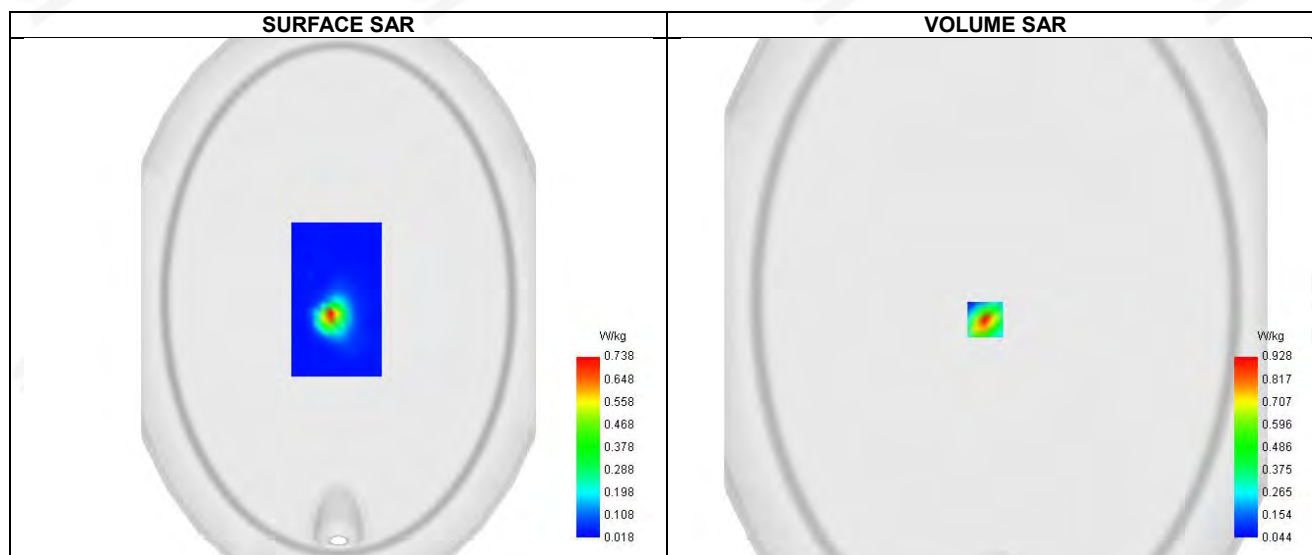


F. 3D Image



**Plot 5: DUT: Tablet PC; EUT Model: MEGA 5**

Test Date	2026-03-06
ConvF	1.58
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.5
Relative permittivity (real part)	40.08
Conductivity (S/m)	1.34



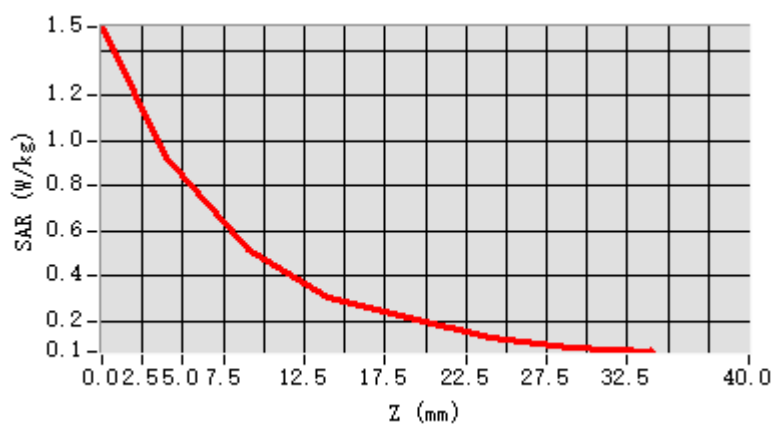
Maximum location: X=-10.00, Y=-18.00 ; SAR Peak: 1.50 W/kg

D. SAR 1g & 10g

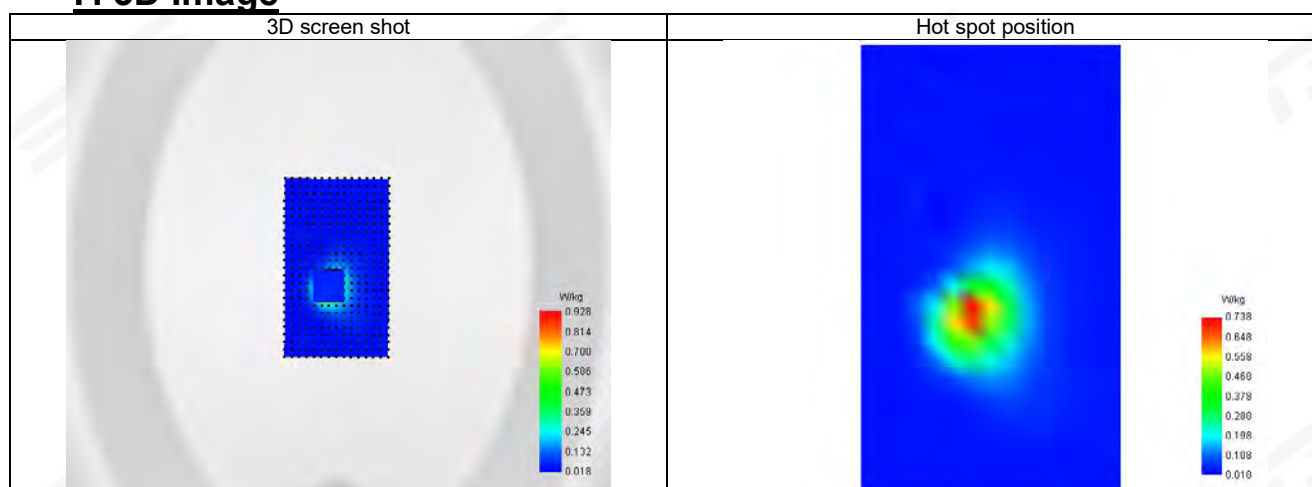
SAR 10g (W/Kg)	0.431
SAR 1g (W/Kg)	0.855
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.224292

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.505	0.928	0.522	0.303	0.214	0.133	0.083

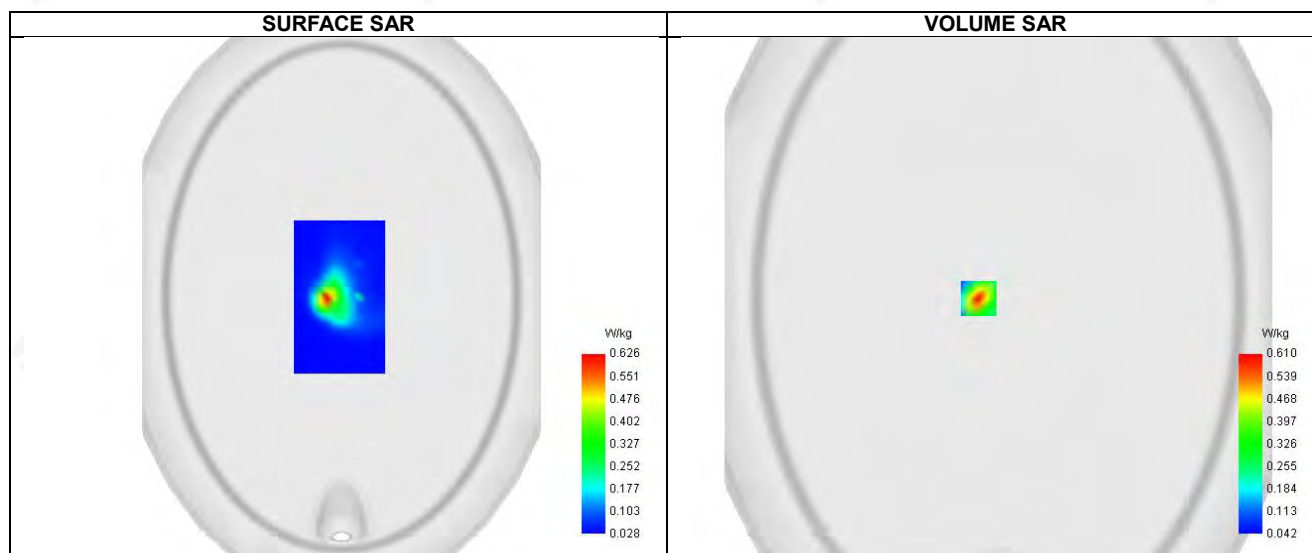


F. 3D Image



**Plot 6: DUT: Tablet PC; EUT Model: MEGA 5**

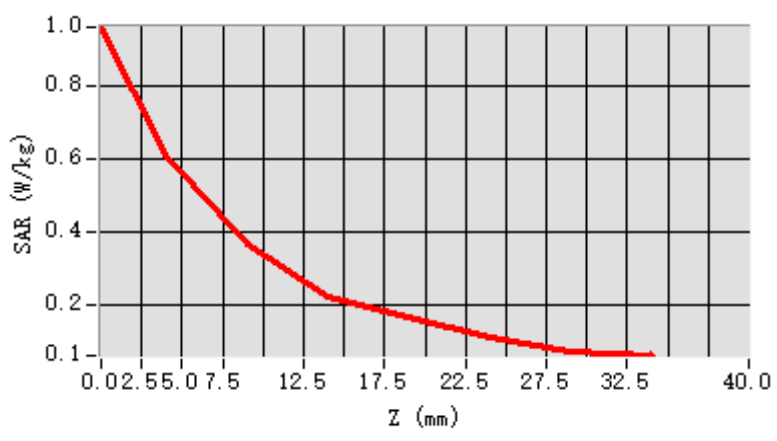
Test Date	2026-03-04
ConvF	1.72
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 2
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	39.35
Conductivity (S/m)	1.40

**D. SAR 1g & 10g**

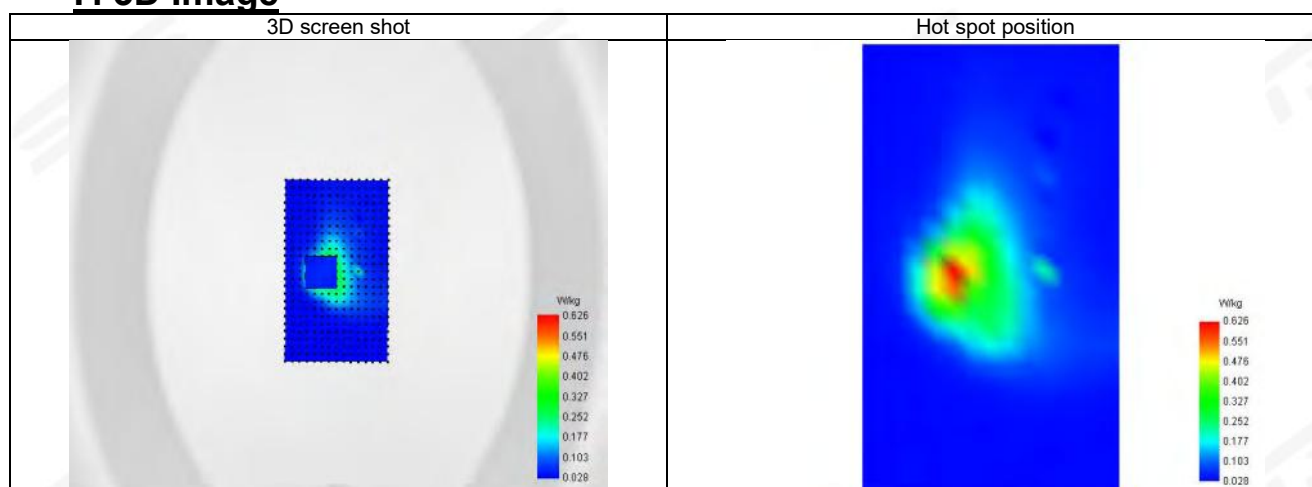
SAR 10g (W/Kg)	0.306
SAR 1g (W/Kg)	0.571
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	59.721006

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.961	0.610	0.364	0.221	0.168	0.112	0.074

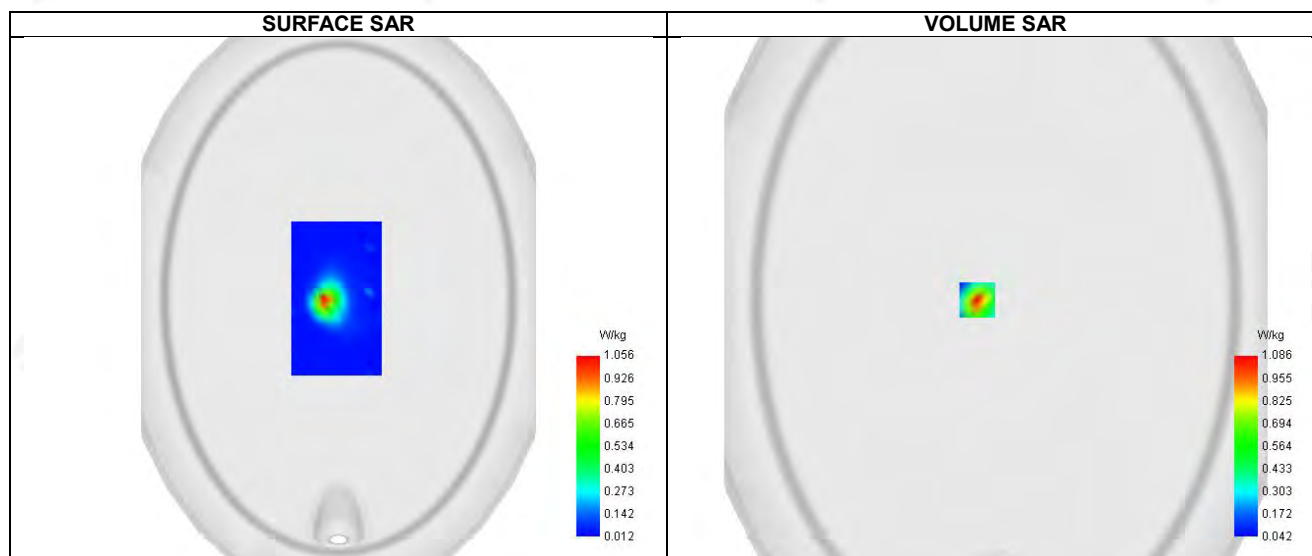


F. 3D Image



**Plot 7: DUT: Tablet PC; EUT Model: MEGA 5**

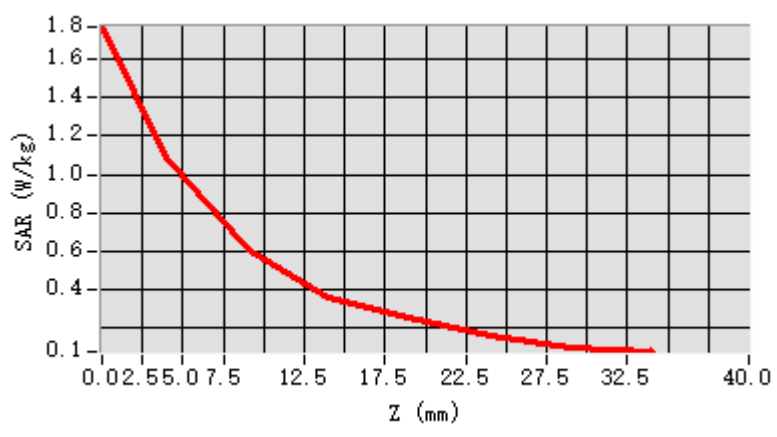
Test Date	2026-03-05
ConvF	1.58
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.62
Conductivity (S/m)	1.35

**D. SAR 1g & 10g**

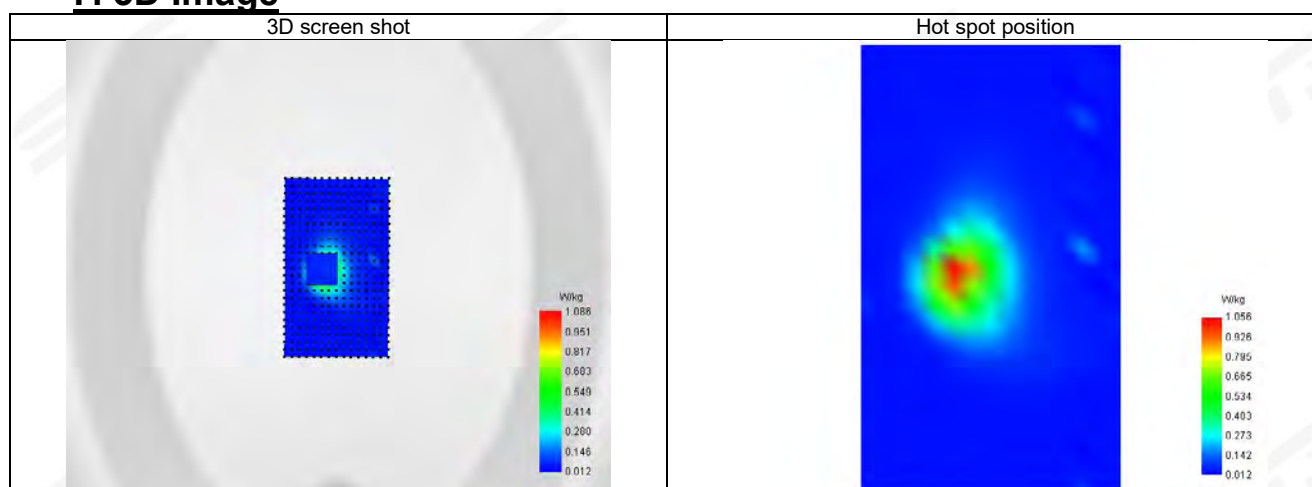
SAR 10g (W/Kg)	0.512
SAR 1g (W/Kg)	1.003
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	55.981724

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.766	1.086	0.608	0.362	0.252	0.158	0.099

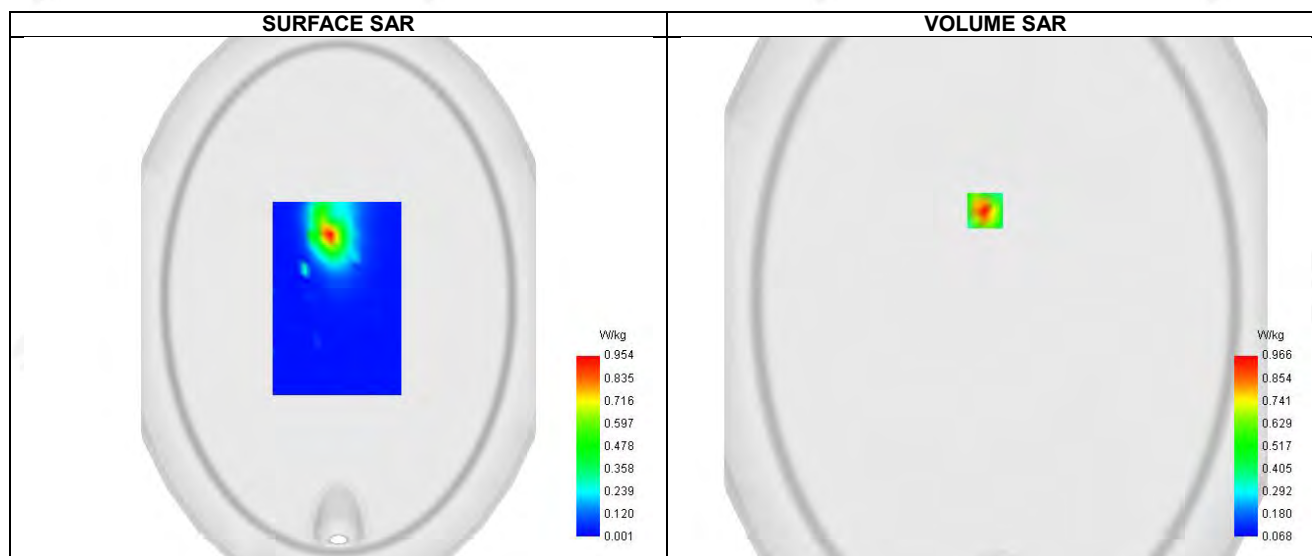


F. 3D Image



**Plot 8: DUT: Tablet PC; EUT Model: MEGA 5**

Test Date	2026-03-05
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 5
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.53
Conductivity (S/m)	0.90



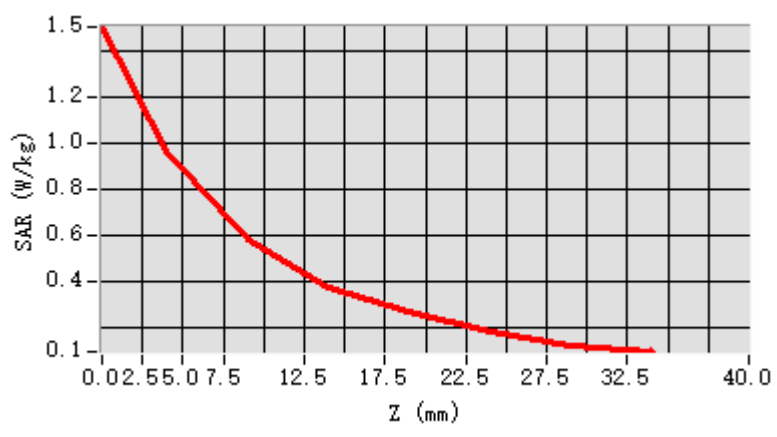
Maximum location: X=-10.00, Y=79.00 ; SAR Peak: 1.50 W/kg

D. SAR 1g & 10g

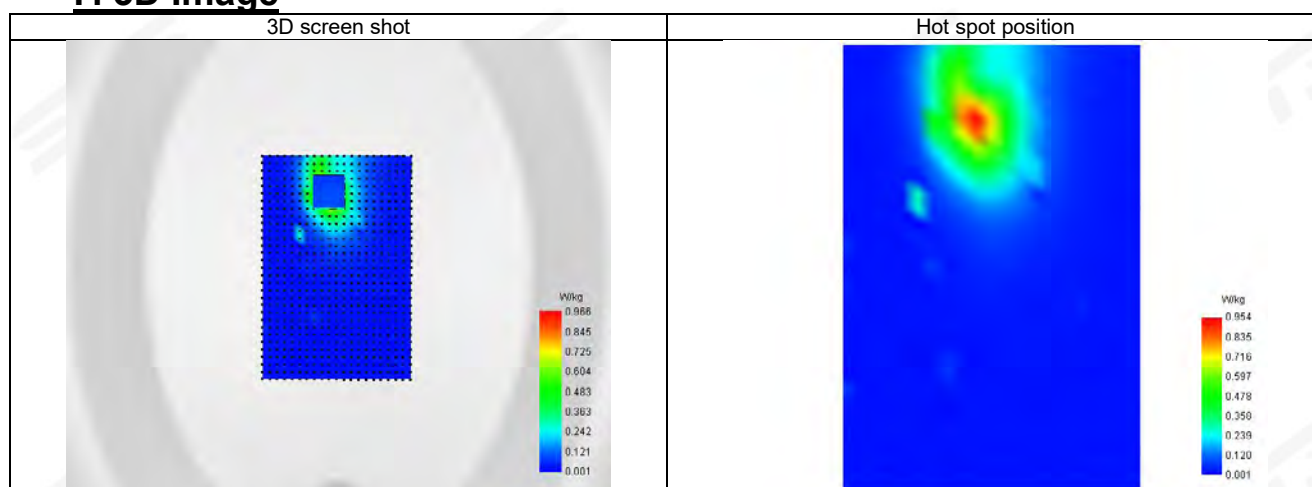
SAR 10g (W/Kg)	0.524
SAR 1g (W/Kg)	0.922
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.140096

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.502	0.966	0.581	0.371	0.269	0.179	0.119

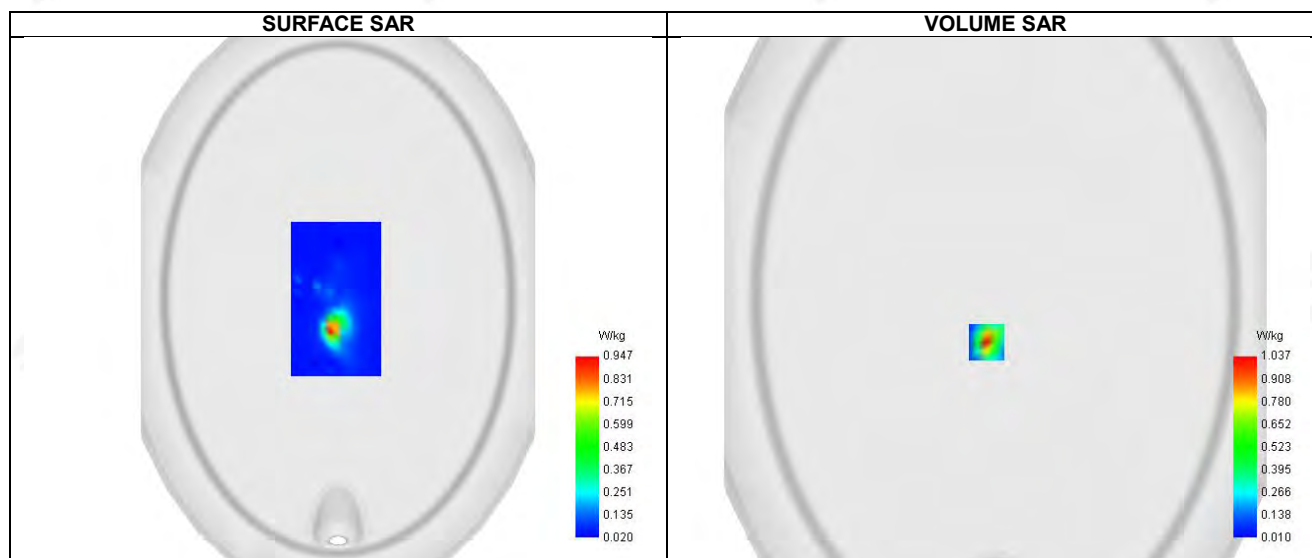


F. 3D Image




Plot 9: DUT: Tablet PC; EUT Model: MEGA 5

Test Date	2026-03-07
ConvF	1.74
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 7
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	39.26
Conductivity (S/m)	1.88



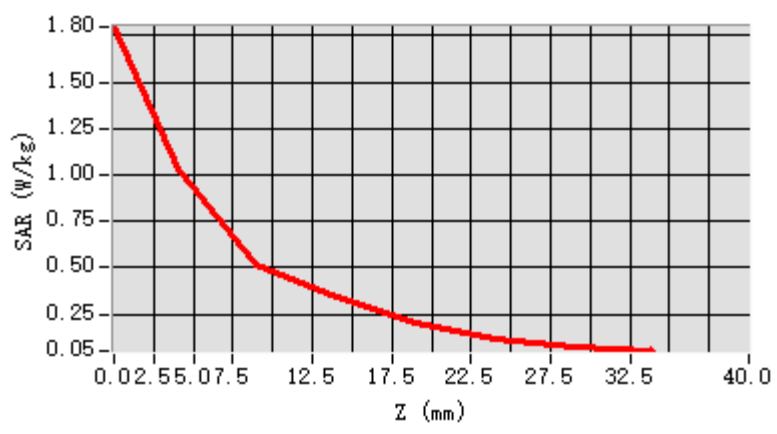
Maximum location: X=-8.00, Y=-39.00 ; SAR Peak: 1.77 W/kg

D. SAR 1g & 10g

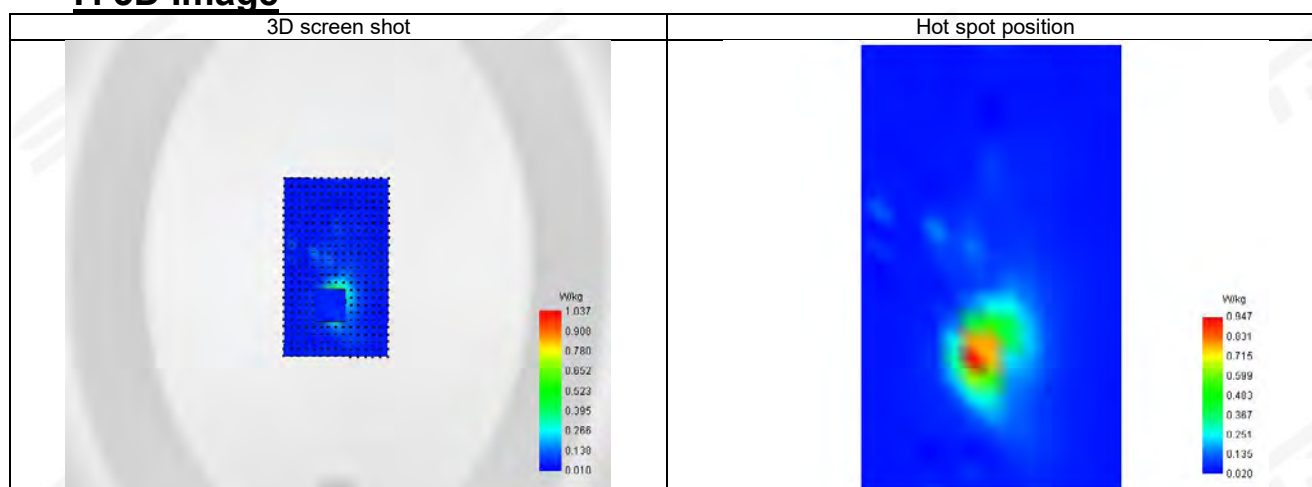
SAR 10g (W/Kg)	0.408
SAR 1g (W/Kg)	0.927
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.726708

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.796	1.037	0.516	0.348	0.207	0.123	0.073

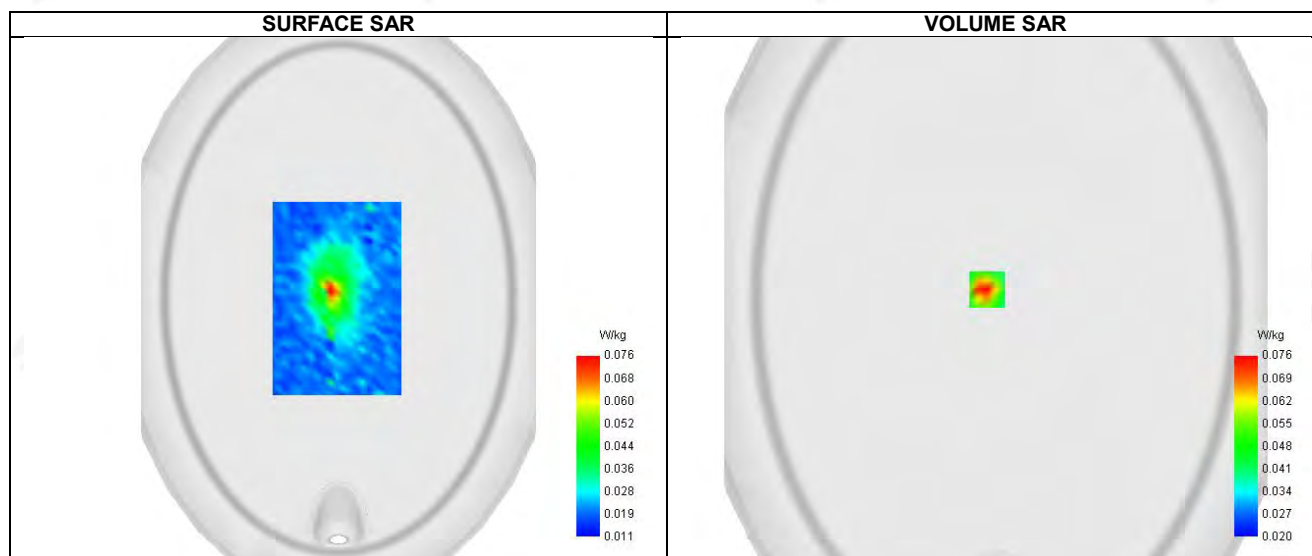


F. 3D Image



**Plot 10: DUT: Tablet PC; EUT Model: MEGA 5**

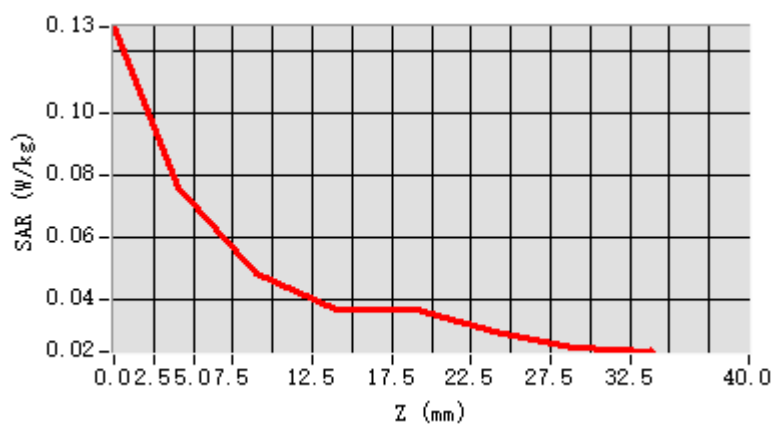
Test Date	2026-03-05
ConvF	1.56
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 12
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	707.5
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.89

**D. SAR 1g & 10g**

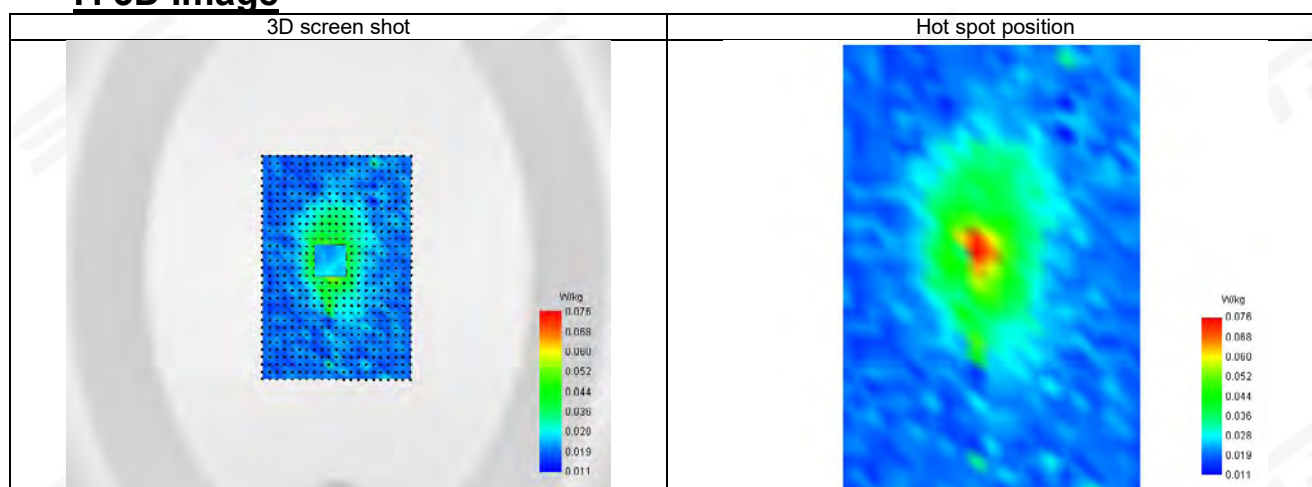
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.077
Horizontal validation criteria: minimum distance (mm)	12.618545
Vertical validation criteria: SAR ratio M2/M1 (%)	64.418523

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.127	0.076	0.048	0.036	0.036	0.030	0.024

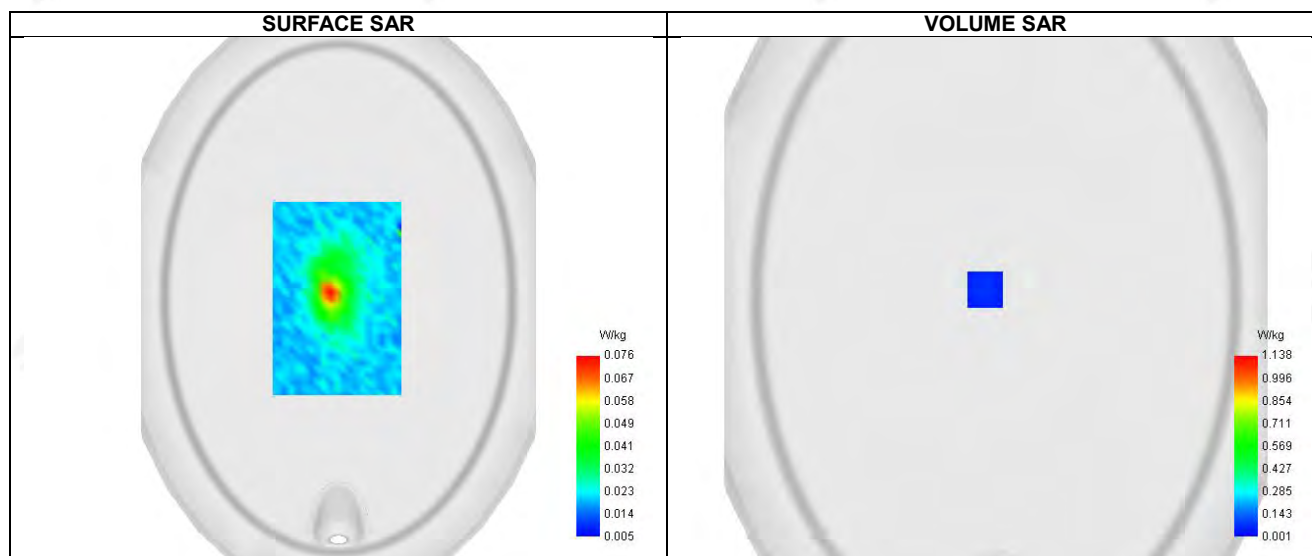


F. 3D Image




Plot 11: DUT: Tablet PC; EUT Model: MEGA 5

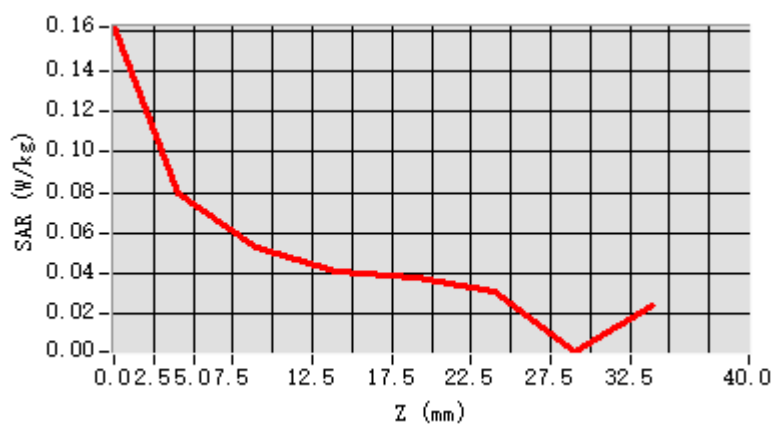
Test Date	2026-03-05
ConvF	1.56
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 17
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	42.30
Conductivity (S/m)	0.89


D. SAR 1g & 10g

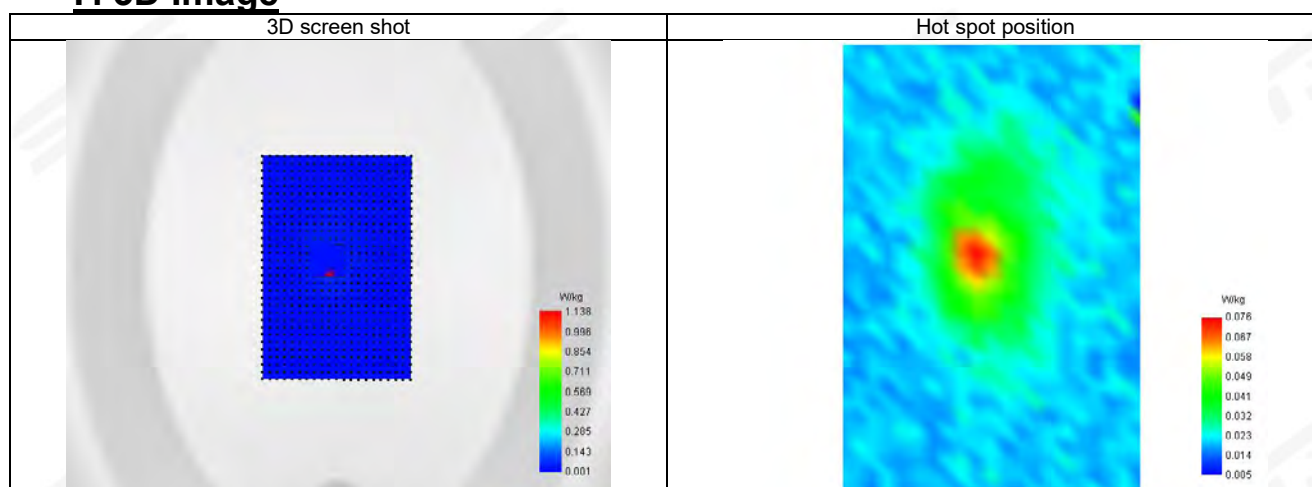
SAR 10g (W/Kg)	0.048
SAR 1g (W/Kg)	0.088
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	66.455764

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.162	0.079	0.053	0.041	0.038	0.031	0.001

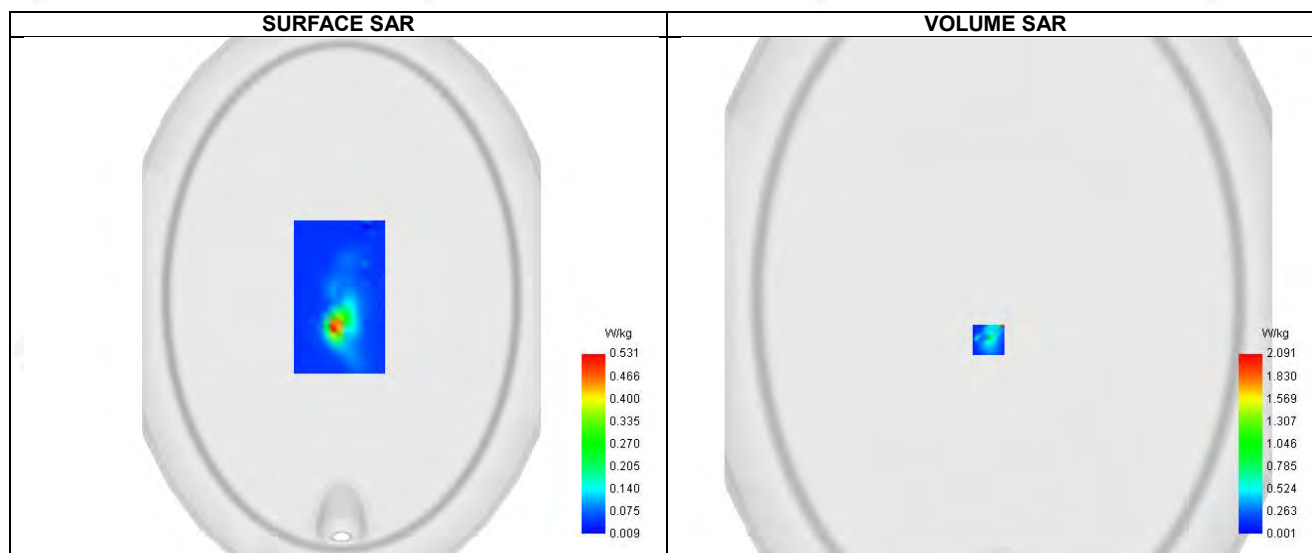


F. 3D Image



**Plot 12: DUT: Tablet PC; EUT Model: MEGA 5**

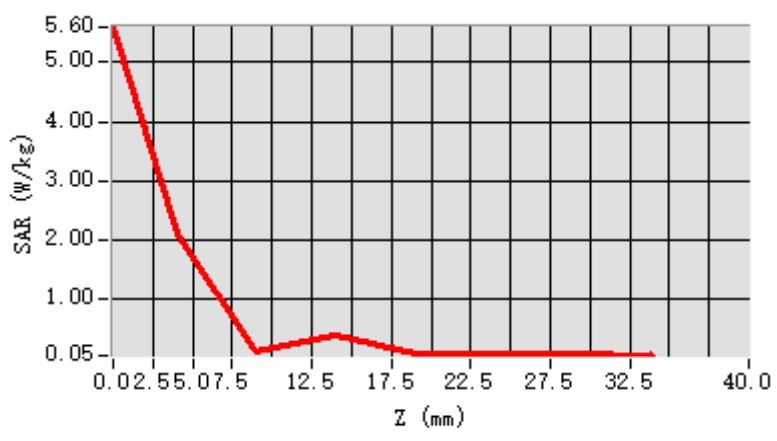
Test Date	2026-03-07
ConvF	1.74
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 41
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	2555
Relative permittivity (real part)	39.58
Conductivity (S/m)	1.91

**D. SAR 1g & 10g**

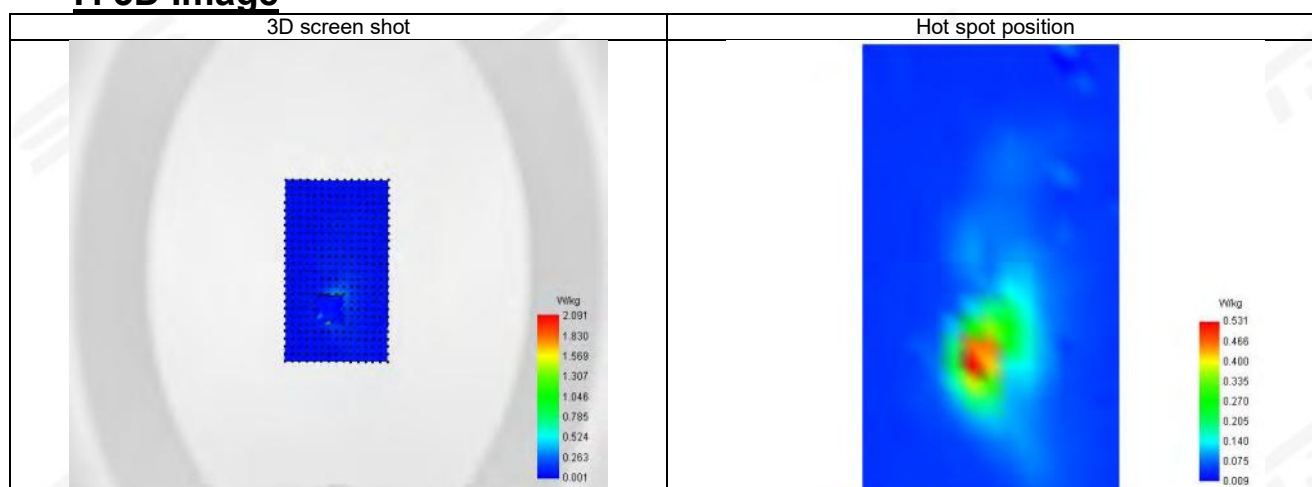
SAR 10g (W/Kg)	0.205
SAR 1g (W/Kg)	0.583
Horizontal validation criteria: minimum distance (mm)	12.025942
Vertical validation criteria: SAR ratio M2/M1 (%)	42.197254

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.598	2.091	0.115	0.406	0.095	0.089	0.079

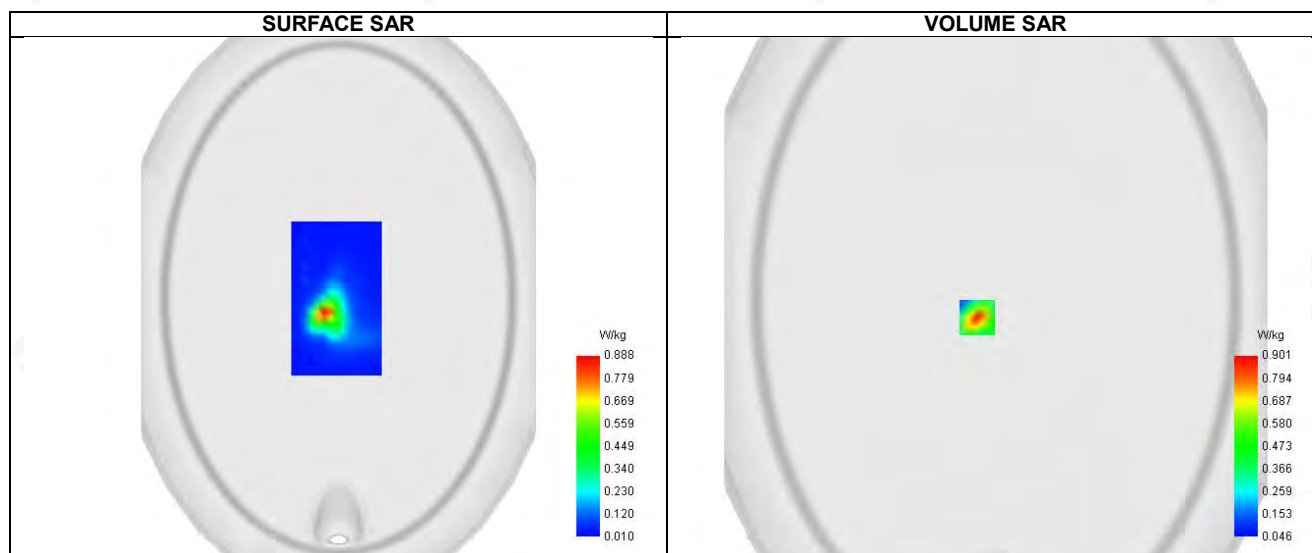


F. 3D Image



**Plot 13: DUT: Tablet PC; EUT Model: MEGA 5**

Test Date	2026-03-06
ConvF	1.58
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	LTE Band 66
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.40
Conductivity (S/m)	1.37



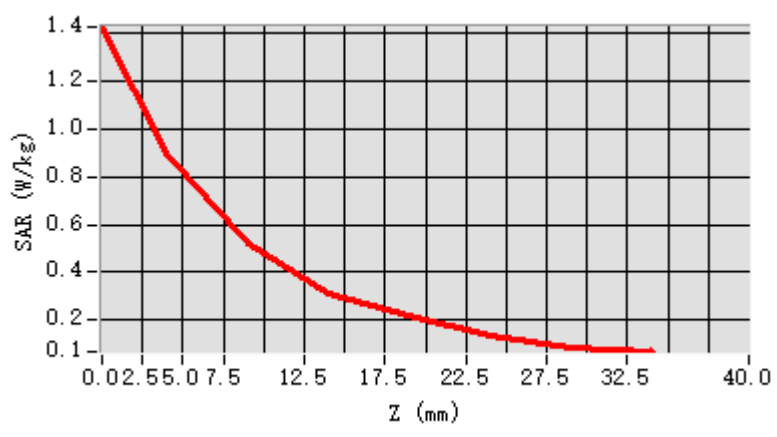
Maximum location: X=-17.00, Y=-17.00 ; SAR Peak: 1.41 W/kg

D. SAR 1g & 10g

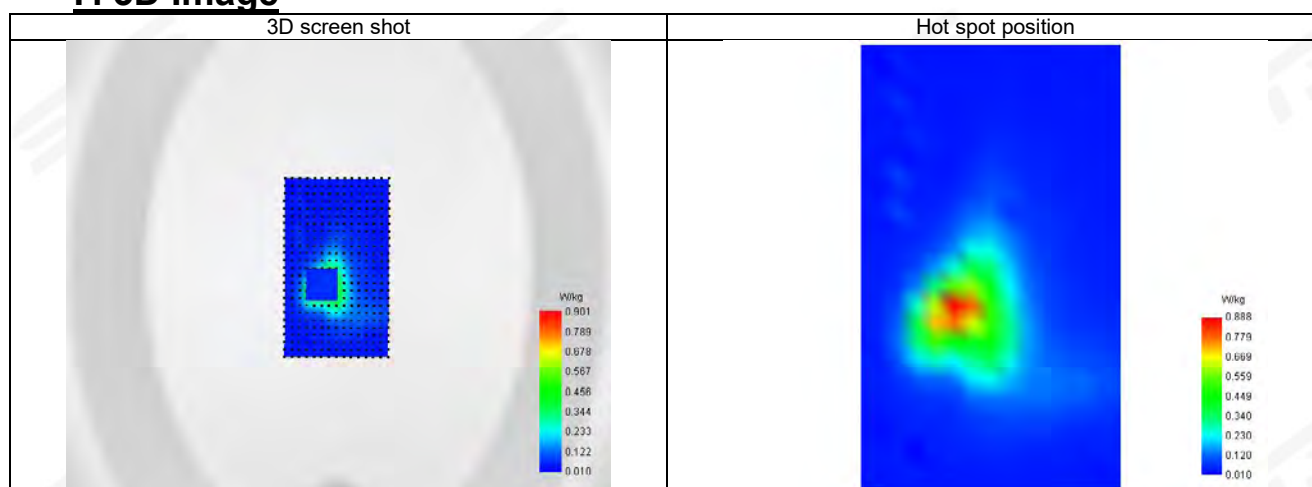
SAR 10g (W/Kg)	0.445
SAR 1g (W/Kg)	0.838
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	58.052892

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.425	0.901	0.523	0.314	0.220	0.140	0.089

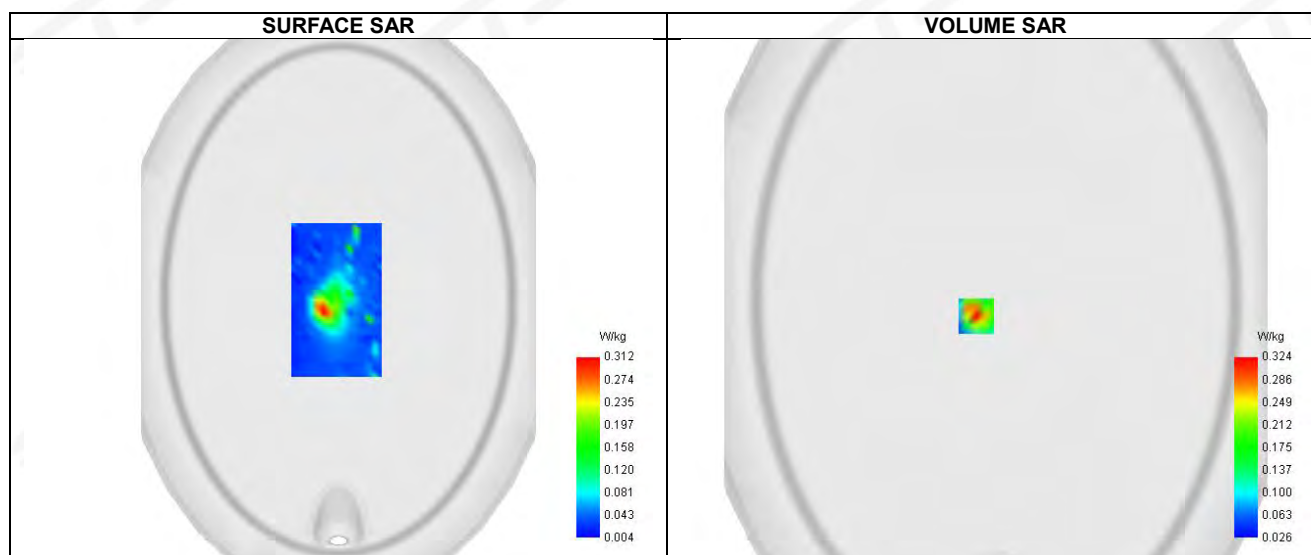


F. 3D Image



**Plot 14: DUT: Tablet PC; EUT Model: MEGA 5**

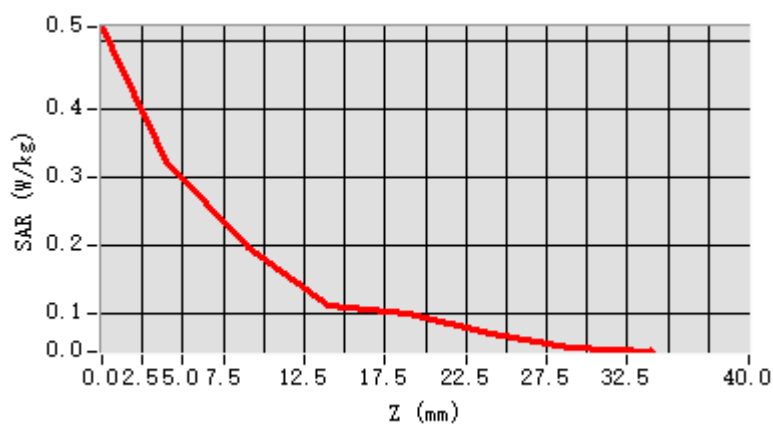
Test Date	2026-03-07
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	2.4GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.82

**D. SAR 1g & 10g**

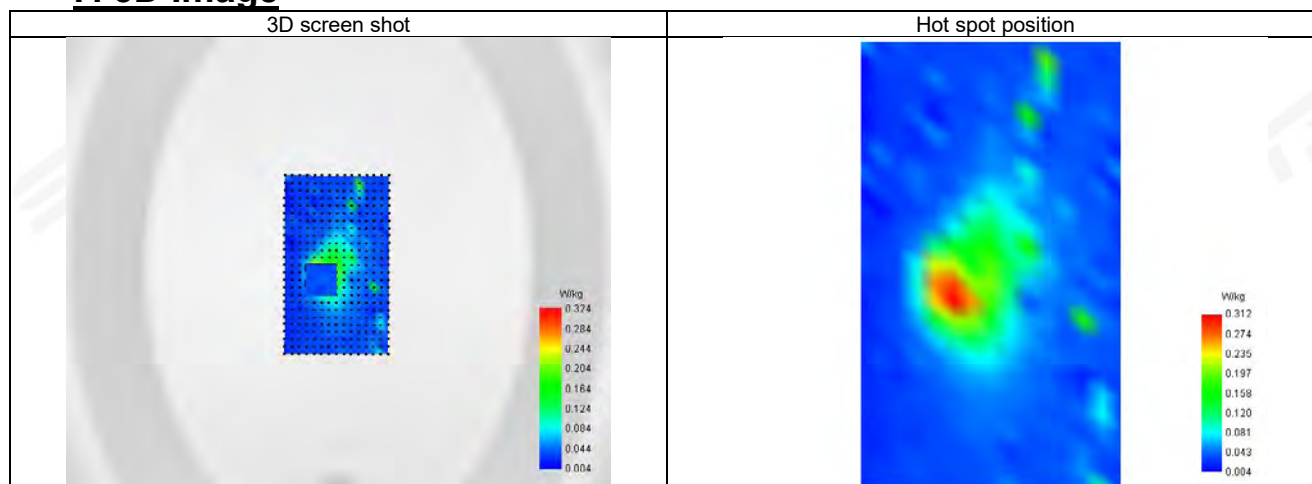
SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.322
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	60.742509

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.521	0.324	0.197	0.113	0.101	0.071	0.049



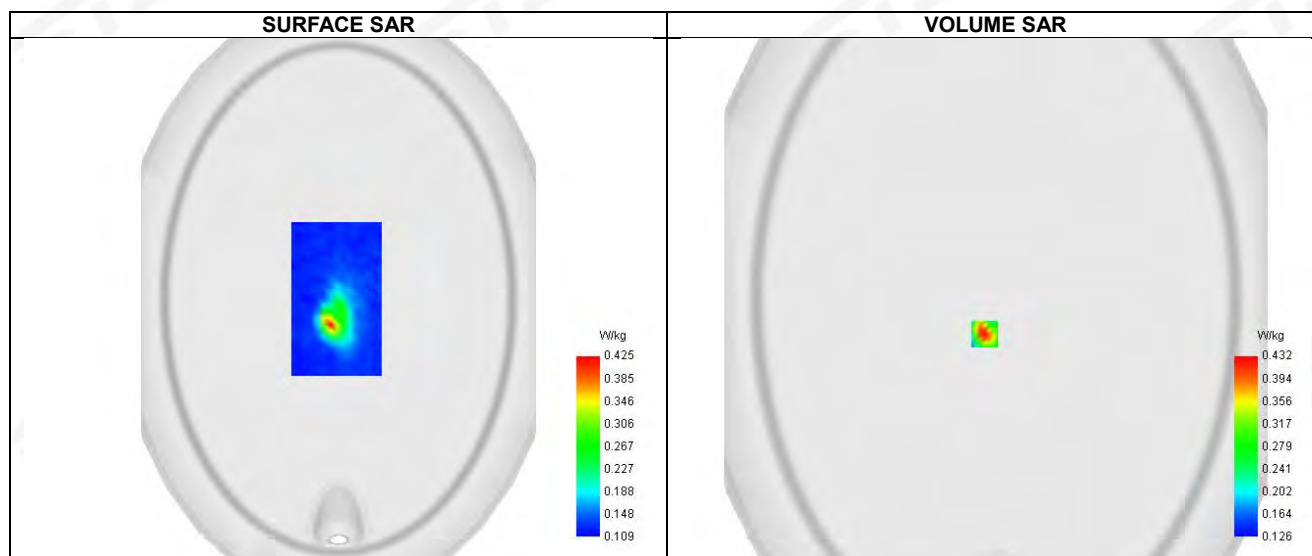
F. 3D Image





Plot 15: DUT: Tablet PC; EUT Model: MEGA 5

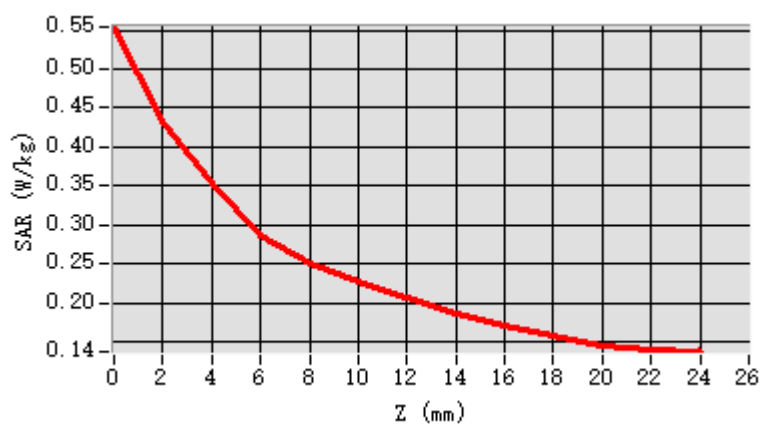
Test Date	2026-03-07
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Front Side
Band	5.2GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.28
Conductivity (S/m)	4.66

**D. SAR 1g & 10g**

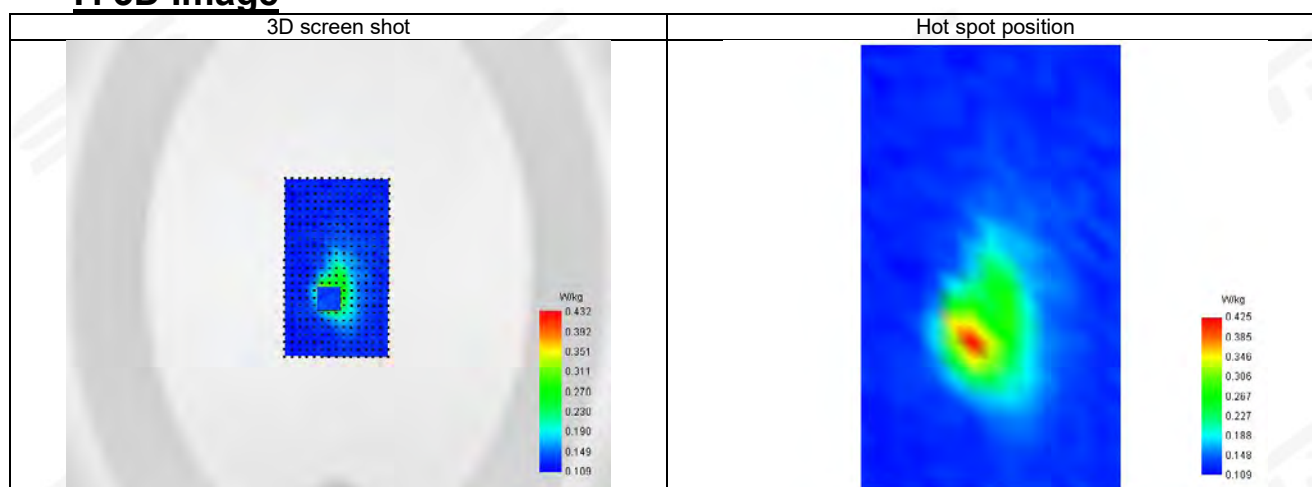
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.328
Horizontal validation criteria: minimum distance (mm)	12.649111
Vertical validation criteria: SAR ratio M2/M1 (%)	81.863358

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.554	0.432	0.354	0.286	0.251	0.227	0.207	0.188	0.171	0.157	0.146	0.140



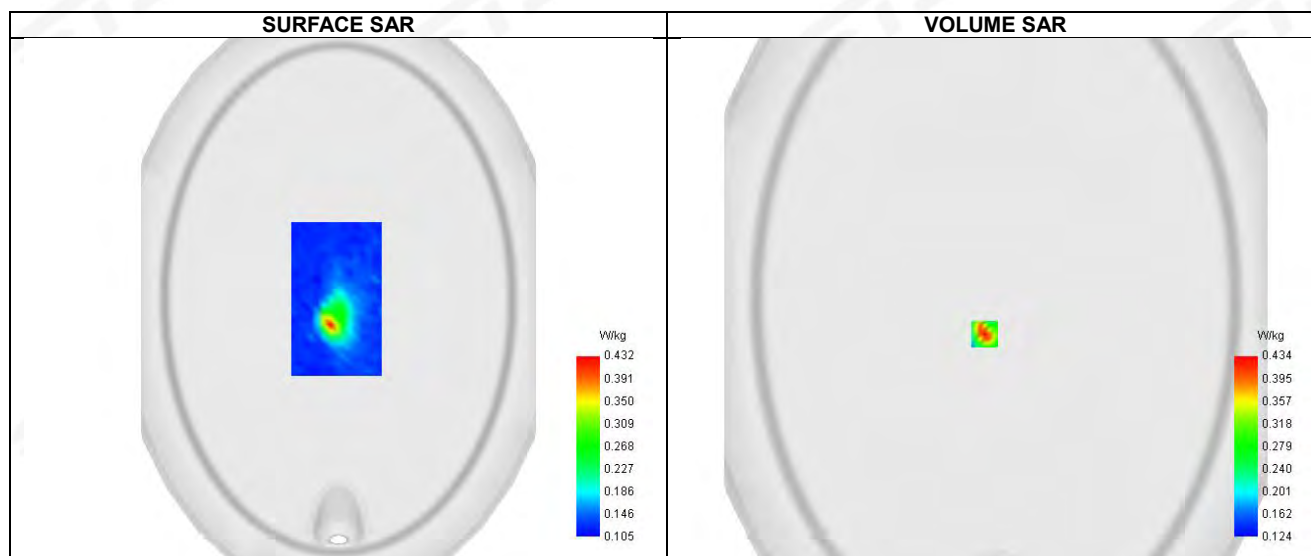
F. 3D Image





Plot 16: DUT: Tablet PC; EUT Model: MEGA 5

Test Date	2026-03-07
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Front Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5785
Relative permittivity (real part)	36.11
Conductivity (S/m)	5.23



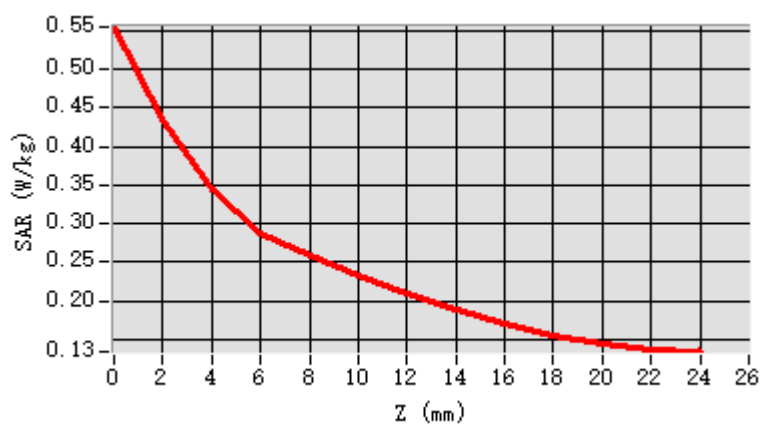
Maximum location: X=-10.00, Y=-32.00 ; SAR Peak: 0.57 W/kg

D. SAR 1g & 10g

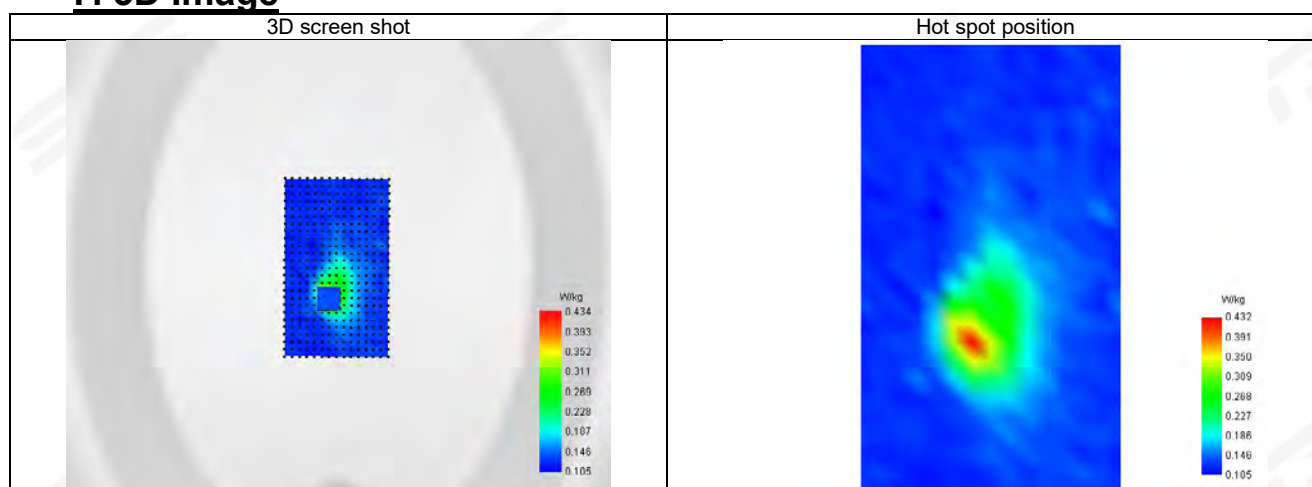
SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.331
Horizontal validation criteria: minimum distance (mm)	12.649111
Vertical validation criteria: SAR ratio M2/M1 (%)	80.404466

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.555	0.434	0.345	0.287	0.258	0.232	0.209	0.187	0.169	0.154	0.143	0.137



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※