



SAR Test Report

Report No.: STS2605044H01

Issued for

AGM MOBILE LIMITED

ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK
China

Product Name: 4G smart PAD Tablet

Brand Name: AGM

Model Name: AGM_P3_COMPACT

Series Model(s): AGM_P3, AGM_P3_PRO

FCC ID: 2A3DR-AGMP3

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

Max. Report SAR (1g) Body: 0.999 W/kg

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** : **AGM MOBILE LIMITED**Address : ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK
China**Manufacturer's Name** : **AGM MOBILE LIMITED**Address : ROOM 1L, 7/F, LANE UP, 4 KIN FAT LANE, TUEN MUN HK
China**Product description**

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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..... : 01 April 2026 ~ 25 June 2026

Date of Issue : 26 June 2026

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

Testing Engineer : _____

(Xin.Liu)

Technical Manager : _____

(Eric Zhou)

Authorized Signatory : _____

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	26 June 2026	STS2605044H01	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	4G smart PAD Tablet
Brand Name	AGM
Model Name	AGM_P3_COMPACT
Series Model	AGM_P3, AGM_P3_PRO
Sample number	260509003-1
Battery	Rated Voltage:3.85V Capacity:7200mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	V1.0
Software Version	V1.0
Frequency Range	GSM 850: 824.2 MHz ~ 848.8 MHz PCS1900: 1850.2 MHz ~ 1909.8 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 18: 815 MHz ~ 824MHz / 824 MHz ~ 830MHz LTE Band 19: 830 MHz ~ 845MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN802.11n40: 2422MHz ~ 2452MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5180 ~ 5240 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5745 ~ 5825 MHz Bluetooth: 2402 MHz to 2480 MHz NFC:13.56 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body Worn and Hotspot(W/kg)
	PCB	GSM 850	0.238
	PCB	GSM 1900	0.926
	PCB	WCDMA Band II	0.999
	PCB	WCDMA Band V	0.245
	PCB	WCDMA Band IV	0.786
	PCB	LTE Band 7	0.575
	PCB	LTE Band 12/17	0.745
	PCB	LTE Band 18	0.356
	PCB	LTE Band 19	0.369
	PCB	LTE Band 25/2	0.538
	PCB	LTE Band 26/5	0.866
	PCB	LTE Band 41/38	0.822
	PCB	LTE Band 66/4	0.625
	DTS	2.4G WLAN	0.060
	DSS	BT	0.105
	NII	5.2G WLAN	0.229
	NII	5.8G WLAN	0.422
1-g Sum SAR			1.421
FCC Equipment Class	Licensed Portable Transmitter Body (PCB) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	GSM: GSM Voice; GPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 8 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,256-QAM Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK NFC:ASK		
Antenna Specification:	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna NFC: PIFA 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. The SAR values for DSS are estimated. 5. According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows: a) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.			



b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

- LTE Band 2 (1850-1910 MHz) is covered by LTE band 25 (1850-1915 MHz) and has the same maximum tune-up power, so only LTE Band 25 needs to be tested.

- LTE Band 4 (1710-1755 MHz) is covered by LTE band 66 (1710-1780 MHz) and has the same maximum tune-up power, so only LTE Band 66 needs to be tested.

- LTE Band 5 (824-849 MHz) is covered by LTE band 26 (814-849 MHz) and has the same maximum tune-up power, so only LTE Band 26 needs to be tested.

- LTE Band 17 (704-716 MHz) is covered by LTE band 12 (699-716 MHz) and has the same maximum tune-up power, so only LTE Band 12 needs to be tested.

- LTE Band 38 (2570-2620MHz) is covered by LTE band 41 (2496-2690 MHz) and has the same maximum tune-up power, so only LTE Band 41 needs to be tested.



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 616217 D04 v01r02	SAR evaluation requirements for laptop, notebook, notebook and tablet computers
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
12	FCC KDB 775926 v01	SPECIFIC ABSORPTION RATE (SAR) TESTING FOR IRREGULAR SHAPED DEVICES

(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

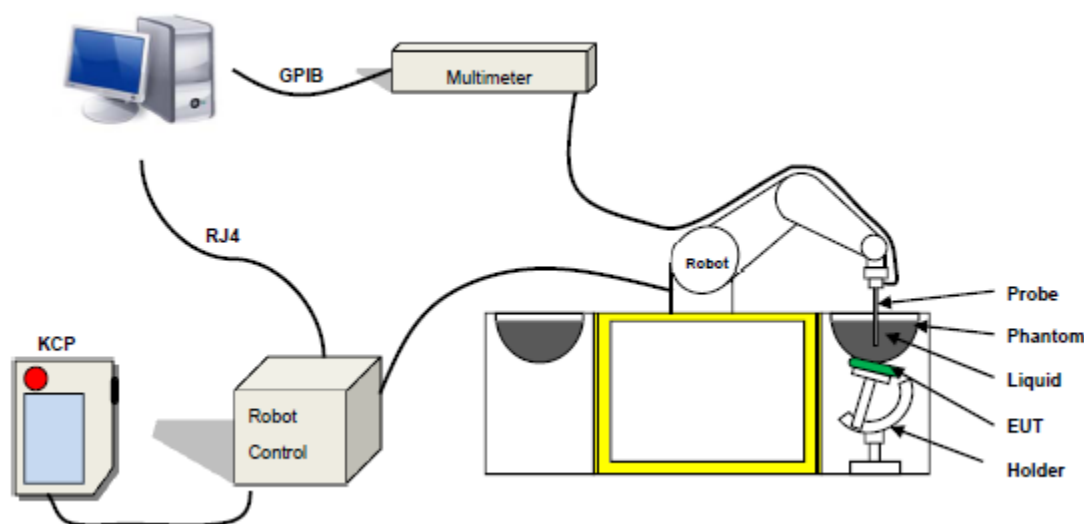
$$SAR = \frac{\sigma E^2}{\rho}$$

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

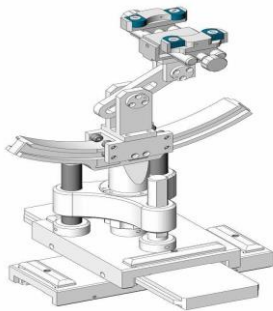
3.2.2 Phantom

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.

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. 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.

The head tissue dielectric parameters recommended by the IEEE 62209-1528 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]					
2026-06-12	21.4	54.0	704	21.2	Permittivity	42.15	42.62	1.13	±5
					Conductivity	0.89	0.90	1.47	±5
2026-06-12	21.4	54.0	707.5	21.2	Permittivity	42.13	42.53	0.96	±5
					Conductivity	0.89	0.90	1.45	±5
2026-06-12	21.4	54.0	750	21.2	Permittivity	41.90	41.69	-0.50	±5
					Conductivity	0.89	0.91	2.13	±5
2026-06-12	21.4	54.0	817.5	21.2	Permittivity	41.58	41.75	0.40	±5
					Conductivity	0.90	0.89	-0.88	±5
2026-06-12	21.4	54.0	819	21.2	Permittivity	41.58	42.08	1.21	±5
					Conductivity	0.90	0.89	-0.90	±5
2026-06-12	21.4	54.0	819.5	21.2	Permittivity	41.57	41.75	0.43	±5
					Conductivity	0.90	0.91	1.32	±5
2026-06-12	21.4	54.0	827.5	21.2	Permittivity	41.54	41.95	1.00	±5
					Conductivity	0.90	0.89	-1.01	±5
2026-06-12	21.4	54.0	835	21.2	Permittivity	41.50	41.56	0.14	±5
					Conductivity	0.90	0.89	-1.11	±5
2026-06-12	21.4	54.0	837.5	21.2	Permittivity	41.49	42.55	2.56	±5
					Conductivity	0.90	0.89	-1.14	±5
2026-06-12	21.4	54.0	841.5	21.2	Permittivity	41.47	42.10	1.52	±5
					Conductivity	0.90	0.89	-1.20	±5
2026-06-12	21.4	54.0	846.6	21.2	Permittivity	41.45	41.38	-0.16	±5
					Conductivity	0.90	0.89	-1.26	±5
2026-06-12	21.4	54.0	848.8	21.2	Permittivity	41.44	41.94	1.22	±5
					Conductivity	0.90	0.90	-0.18	±5
2026-06-13	21.7	52.0	1720	21.7	Permittivity	40.11	40.67	1.39	±5
					Conductivity	1.35	1.35	-0.32	±5
2026-06-13	21.7	52.0	1740	21.5	Permittivity	40.09	41.28	2.98	±5
					Conductivity	1.37	1.36	-0.42	±5
2026-06-13	21.7	52.0	1770	21.5	Permittivity	40.04	39.65	-0.98	±5
					Conductivity	1.38	1.36	-1.65	±5
2026-06-13	21.7	52.0	1800	21.5	Permittivity	40.00	40.71	1.78	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-06-13	21.7	52.0	1850.2	21.5	Permittivity	39.93	40.87	2.36	±5
					Conductivity	1.43	1.41	-1.31	±5
2026-06-13	21.7	52.0	1852.4	21.5	Permittivity	39.93	40.11	0.46	±5
					Conductivity	1.43	1.44	0.70	±5
2026-06-13	21.7	52.0	1880.0	21.5	Permittivity	39.89	39.76	-0.32	±5
					Conductivity	1.45	1.44	-0.40	±5
2026-06-13	21.7	52.0	1882.5	21.5	Permittivity	39.88	41.09	3.03	±5
					Conductivity	1.45	1.46	0.89	±5



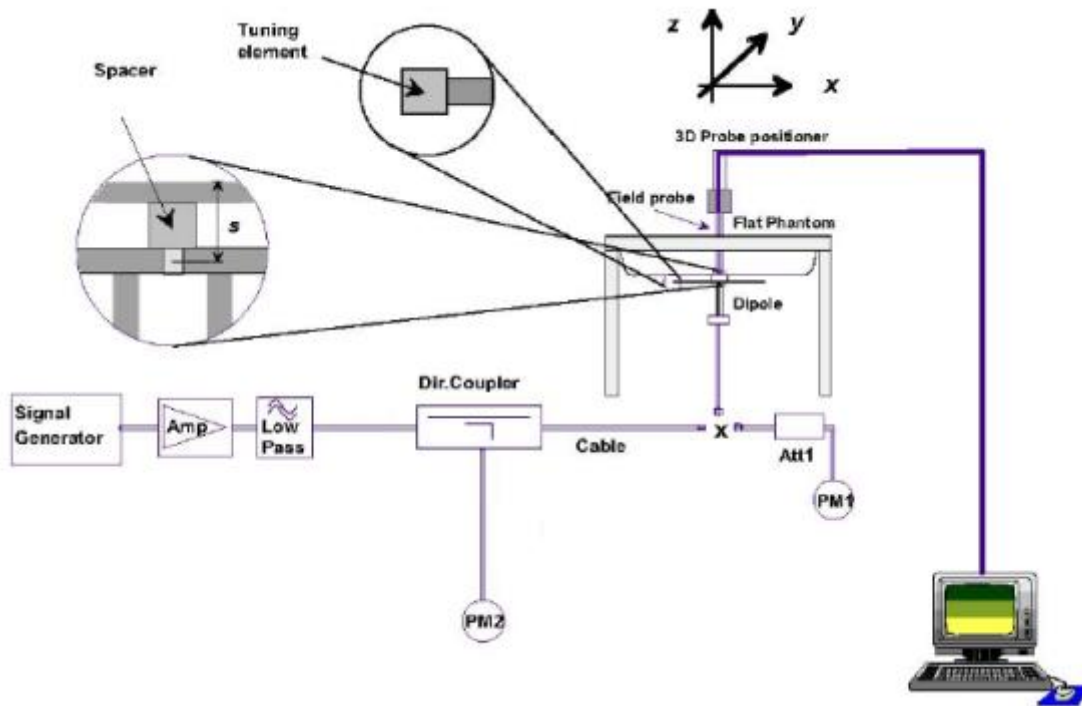
2026-06-13	21.7	52.0	1900	21.5	Permittivity	40.00	40.09	0.23	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-06-13	21.7	52.0	1905	21.5	Permittivity	40.00	39.71	-0.72	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-06-13	21.7	52.0	1907.6	21.5	Permittivity	40.00	40.61	1.53	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-06-13	21.7	52.0	1909.8	21.5	Permittivity	40.00	40.79	1.98	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-06-14	22.1	52.0	2437	21.7	Permittivity	39.22	40.18	2.44	±5
					Conductivity	1.79	1.79	0.09	±5
2026-06-14	22.1	52.0	2450	21.7	Permittivity	39.20	40.32	2.86	±5
					Conductivity	1.80	1.82	1.11	±5
2026-06-14	22.1	52.0	2506	21.7	Permittivity	39.13	39.86	1.88	±5
					Conductivity	1.86	1.85	-0.52	±5
2026-06-14	22.1	52.0	2535	21.7	Permittivity	39.09	40.12	2.64	±5
					Conductivity	1.89	1.88	-0.56	±5
2026-06-14	22.1	52.0	2549.5	21.7	Permittivity	39.07	39.42	0.90	±5
					Conductivity	1.91	1.89	-0.85	±5
2026-06-14	22.1	52.0	2593.0	21.7	Permittivity	39.01	39.27	0.67	±5
					Conductivity	1.95	1.96	0.38	±5
2026-06-14	22.1	52.0	2600	21.7	Permittivity	39.00	38.80	-0.51	±5
					Conductivity	1.96	1.98	1.02	±5
2026-06-14	22.1	52.0	5200	21.7	Permittivity	36.00	35.47	-1.47	±5
					Conductivity	4.66	4.67	0.21	±5
2026-06-14	22.1	52.0	5745	21.7	Permittivity	35.37	36.11	2.10	±5
					Conductivity	5.21	5.22	0.12	±5
2026-06-14	22.1	52.0	5800	21.7	Permittivity	35.30	36.49	3.37	±5
					Conductivity	5.27	5.29	0.38	±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	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2026-06-12	750	100	0.847	8.47	8.49	-0.24%	10
2026-06-12	835	100	0.951	9.51	9.63	-1.25%	10
2026-06-13	1800	100	3.777	37.77	38.31	-1.41%	10
2026-06-13	1900	100	3.869	38.69	39.84	-2.89%	10
2026-06-14	2450	100	5.612	56.12	54.70	2.60%	10
2026-06-14	2600	100	5.603	56.03	56.16	-0.23%	10
2026-06-14	5200	10	1.558	155.8	158.49	-1.70%	10
2026-06-14	5800	10	1.821	182.1	183.06	-0.52%	10

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

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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



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

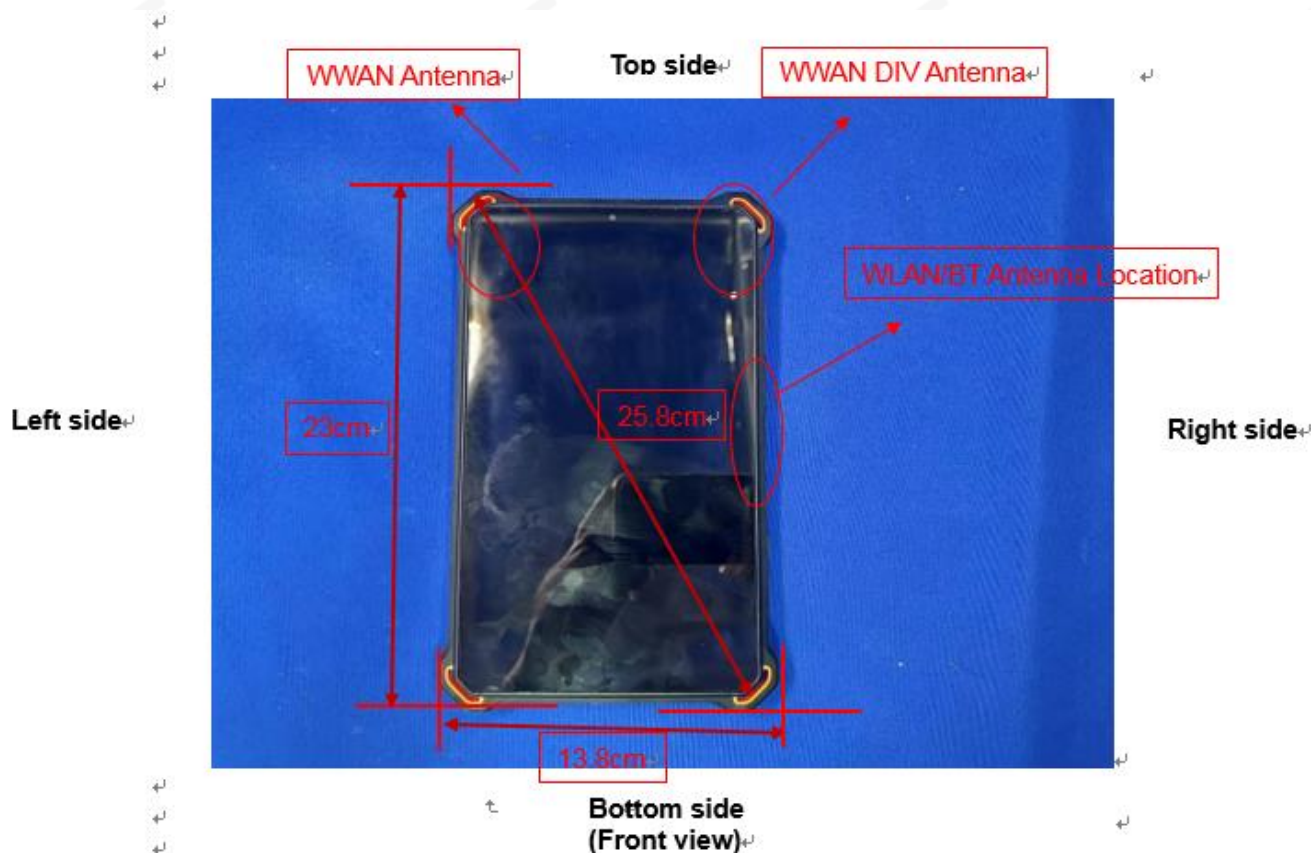
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power Drift Measurement

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

7. EUT Antenna Location Sketch

It is a 4G smart PAD Tablet, support GSM/WCDMA/LTE/WLAN/BT mode.



Antenna Separation Distance(cm)					
ANT	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	12.7	0.8	113	8.2
WWAN	≤0.5	0.8	8.9	0.8	20.1

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

2. According to KDB616217, exposures to hands for typical consumer transmitters used in Tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of Tablet display screens are generally not necessary.

3. The EUT removed the raised parts around and closely adhered to the Phantom for testing

**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 V	WCDMA IV
	Calculated Frequency(GHz)	0.8488	1.880	1.880	0.8466	1.740
	Maximum Turn-up power (dBm)	26.00	23.00	24.00	24.00	24.00
	Maximum rated power(mW)	398.11	199.53	251.19	251.19	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	9.07	3.61
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	17.65	8.07	8.07	17.70	8.52
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	8.9	8.9	8.9	8.9	8.9
	exclusion threshold(mW)	546.33	687.18	687.18	545.66	696.59
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	17.65	8.07	8.07	17.70	8.52
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (cm)	20.1	20.1	20.1	20.1	20.1
	exclusion threshold(mW)	1743.90	3088.28	3088.28	1739.37	3088.02
	Testing required?	NO	NO	NO	NO	NO



	Wireless Interface	LTE Band 7	LTE Band 12	LTE Band 18 (815-824)	LTE Band 18 (824-830)	LTE Band 19
Exposure Position	Calculated Frequency(GHz)	2.535	0.704	0.8195	0.8275	0.8375
	Maximum Turn-up power (dBm)	23.00	23.00	22.50	23.00	22.50
	Maximum rated power(mW)	199.53	199.53	177.83	199.53	177.83
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.67	11.75	9.49	9.36	9.21
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	6.55	21.67	18.35	18.15	17.91
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	8.9	8.9	8.9	8.9	8.9
	exclusion threshold(mW)	651.99	500.12	537.34	539.81	542.89
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	6.55	21.67	18.35	18.15	17.91
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (cm)	20.1	20.1	20.1	20.1	20.1
	exclusion threshold(mW)	3089.28	1445.52	1683.51	1700.00	1720.61
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 25	LTE Band 26 (814-824)	LTE Band 26 (824-849)	LTE Band 41	LTE Band 66
	Calculated Frequency(GHz)	1.8825	0.819	0.8415	2.5495	1.770
	Maximum Turn-up power (dBm)	23.00	22.50	23.00	23.00	23.00
	Maximum rated power(mW)	199.53	177.83	199.53	199.53	199.53
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.39	9.50	9.15	2.66	3.56
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	8.07	18.36	17.82	6.52	8.42
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	8.9	8.9	8.9	8.9	8.9
	exclusion threshold(mW)	687.02	537.19	544.11	651.34	694.50
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (cm)	0.8	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	8.07	18.36	17.82	6.52	8.42
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (cm)	20.1	20.1	20.1	20.1	20.1
	exclusion threshold(mW)	3088.29	1682.48	1728.85	3089.30	3088.08
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	BT	2.4G WLAN	5.2G WLAN	5.8G WLAN
	Calculated Frequency(GHz)	2.480	2.437	5.200	5.745
	Maximum Turn-up power (dBm)	4.00	15.00	15.00	15.00
	Maximum rated power(mW)	2.51	31.62	31.62	31.62
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.72	2.76	1.50	1.39
	Testing required?	NO	YES	YES	YES
Left Edge	Separation distance (cm)	12.7	12.7	12.7	12.7
	exclusion threshold(mW)	1288.38	1290.61	1197.67	1185.95
	Testing required?	NO	NO	NO	NO
Right Edge	Separation distance (cm)	0.8	0.8	0.8	0.8
	exclusion threshold(mW)	6.65	6.73	3.96	3.70
	Testing required?	NO	YES	YES	YES
Top Edge	Separation distance (cm)	113	113	113	113
	exclusion threshold(mW)	82836	82293	109429	113608
	Testing required?	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	8.2	8.2	8.2	8.2
	exclusion threshold(mW)	559.96	561.86	485.18	475.90
	Testing required?	NO	NO	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	$19.2 R^2$.



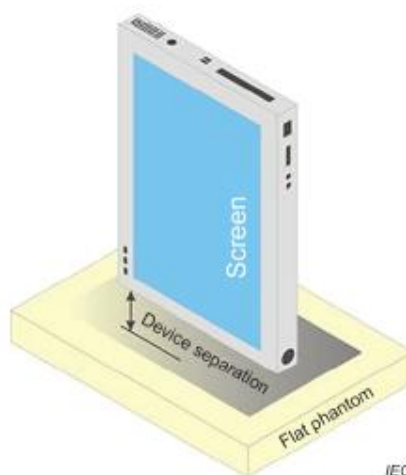
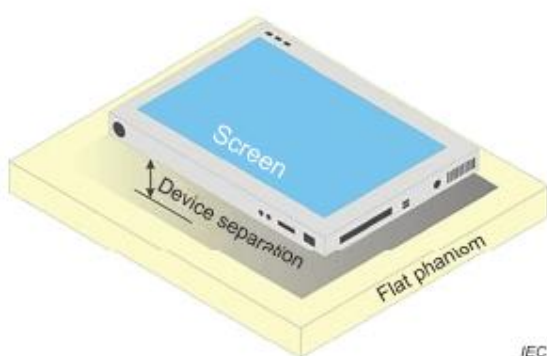
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db 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. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required as highest reported SAR from U-NII-2A band is $\leq 1.2\text{W/Kg}$.

8. EUT Test Position

This EUT was tested in **Body back**, **Body Left** and **Body Top**.

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 EPGO352									
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)	32.29	32.16	32.05	29.54	29.55	29.67
GPRS (GMSK, 1-Slot)	31.59	32.43	32.19	29.16	29.46	29.12
GPRS (GMSK, 2-Slot)	30.48	31.01	30.35	27.22	28.65	27.24
GPRS (GMSK, 3-Slot)	29.26	29.79	29.93	26.63	26.47	26.62
GPRS (GMSK, 4-Slot)	27.21	27.67	27.81	25.52	25.89	25.33
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)	23.26	23.13	23.02	20.51	20.52	20.64
GPRS (GMSK, 1-Slot)	22.56	23.40	23.16	20.13	20.43	20.09
GPRS (GMSK, 2-Slot)	24.46	24.99	24.33	21.20	22.63	21.22
GPRS (GMSK, 3-Slot)	25.00	25.53	25.67	22.37	22.21	22.36
GPRS (GMSK, 4-Slot)	24.20	24.66	24.80	22.51	22.88	22.32
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	23.55	23.57	23.57	23.60	23.62	23.72	23.54	23.68	23.64
HSDPA Subtest-1	23.60	23.57	23.52	23.54	23.54	23.41	23.58	23.58	23.59
HSDPA Subtest-2	22.97	22.93	22.92	22.94	22.91	22.91	22.95	22.93	22.98
HSDPA Subtest-3	22.80	22.82	22.86	22.86	22.86	22.87	22.80	22.83	22.80
HSDPA Subtest-4	22.81	22.77	22.70	22.75	22.77	22.80	22.70	22.78	22.83
HSUPA Subtest-1	22.71	22.77	22.74	22.78	22.72	22.76	22.71	22.73	22.83
HSUPA Subtest-2	22.78	22.74	22.85	22.87	22.72	22.84	22.86	22.71	22.80
HSUPA Subtest-3	22.86	22.82	22.88	22.88	22.89	22.84	22.86	22.87	22.83
HSUPA Subtest-4	22.77	22.74	22.80	22.72	22.73	22.81	22.71	22.80	22.79
HSUPA Subtest-5	22.88	22.88	22.87	22.82	22.81	22.88	22.85	22.87	22.83

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)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	14.24	26.55
	7	2437	14.46	27.93
	11	2462	14.27	26.73
802.11g	1	2412	13.77	23.82
	7	2437	13.95	24.83
	11	2462	14.23	26.49
802.11 n-HT20	1	2412	13.59	22.86
	7	2437	13.98	25.00
	11	2462	14.14	25.94
802.11 n-HT40	3	2422	14.14	25.94
	6	2437	14.42	27.67
	9	2452	14.36	27.29

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-6.08	0.25
	39	2441	-5.38	0.29
	78	2480	-4.50	0.35
$\pi/4$ -QPSK(2Mbps)	0	2402	2.54	1.79
	39	2441	3.28	2.13
	78	2480	3.47	2.22
8DPSK(3Mbps)	0	2402	2.78	1.90
	39	2441	3.61	2.30
	78	2480	3.76	2.38

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	0.43	1.10
	19	2440	2.46	1.76
	39	2480	1.29	1.35



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	14.56	28.58
	40	5200	14.72	29.65
	48	5240	14.54	28.44
802.11 n-HT20	36	5180	13.05	20.18
	40	5200	13.33	21.53
	48	5240	13.3	21.38
802.11 n-HT40	38	5190	13.81	24.04
	46	5230	13.67	23.28
802.11ac-VHT20	36	5180	13.6	22.91
	40	5200	13.71	23.50
	48	5240	13.37	21.73
802.11ac-VHT40	38	5190	13.57	22.75
	46	5230	13.62	23.01
802.11ac-VHT80	42	5210	13.96	24.89

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	14.42	27.67
	157	5785	14.27	26.73
	165	5825	14.34	27.16
802.11 n-HT20	149	5745	12.63	18.32
	157	5785	12.56	18.03
	165	5825	12.39	17.34
802.11 n-HT40	151	5755	13.03	20.09
	159	5795	12.9	19.50
802.11ac-VHT20	149	5745	12.82	19.14
	157	5785	12.44	17.54
	165	5825	12.67	18.49
802.11ac-VHT40	151	5755	12.67	18.49
	159	5795	12.76	18.88
802.11ac-VHT80	155	5775	13.06	20.23



LTE Conducted Power

General Note:

1. ROHDE & SCHWARZ 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						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18700	18900	19100
				1860	1880	1900
20	QPSK	1	0	22.26	22.67	22.47
20	QPSK	1	49	22.16	22.42	22.67
20	QPSK	1	99	22.21	22.67	22.18
20	QPSK	50	0	21.12	21.08	21.29
20	QPSK	50	24	21.32	21.19	21.15
20	QPSK	50	50	21.26	21.28	21.28
20	QPSK	100	0	21.21	21.10	21.21
20	16QAM	1	0	21.50	21.27	21.32
20	16QAM	1	49	21.15	21.43	21.25
20	16QAM	1	99	21.47	21.29	21.19
20	16QAM	50	0	20.22	20.44	20.56
20	16QAM	50	24	20.25	20.21	20.48
20	16QAM	50	50	20.41	20.10	20.27
20	16QAM	100	0	20.43	20.60	20.40

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18675	18900	19125
				1857.5	1880	1902.5
15	QPSK	1	0	22.19	22.15	22.33
15	QPSK	1	37	22.22	22.79	22.53
15	QPSK	1	74	22.21	22.31	22.25
15	QPSK	36	0	21.19	21.30	21.24
15	QPSK	36	20	21.53	21.01	20.98
15	QPSK	36	39	21.38	21.36	21.10
15	QPSK	75	0	21.24	21.09	21.31
15	16QAM	1	0	21.41	21.30	21.06
15	16QAM	1	37	21.17	21.46	21.30
15	16QAM	1	74	21.08	20.93	21.22
15	16QAM	36	0	20.55	20.18	20.23
15	16QAM	36	20	20.08	20.19	20.10
15	16QAM	36	39	20.50	20.52	20.34
15	16QAM	75	0	20.13	20.53	20.10



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18650	18900	19150
				1855	1880	1905
10	QPSK	1	0	22.45	22.22	22.04
10	QPSK	1	25	22.86	22.72	22.15
10	QPSK	1	49	22.66	22.73	22.82
10	QPSK	25	0	21.06	21.38	21.13
10	QPSK	25	12	21.19	21.27	21.39
10	QPSK	25	25	21.47	21.18	21.09
10	QPSK	50	0	21.32	21.46	21.41
10	16QAM	1	0	21.46	21.37	21.00
10	16QAM	1	25	21.36	21.31	21.05
10	16QAM	1	49	21.47	21.49	21.18
10	16QAM	25	0	20.30	20.53	20.58
10	16QAM	25	12	20.27	20.35	20.43
10	16QAM	25	25	20.38	20.46	20.57
10	16QAM	50	0	20.28	20.46	20.65

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18625	18900	19175
				1852.5	1880	1907.5
5	QPSK	1	0	22.53	22.27	22.34
5	QPSK	1	12	22.63	22.58	22.57
5	QPSK	1	24	22.51	22.68	22.26
5	QPSK	12	0	21.26	20.94	21.35
5	QPSK	12	7	21.40	21.30	21.20
5	QPSK	12	13	21.08	21.24	21.27
5	QPSK	25	0	21.10	21.27	21.08
5	16QAM	1	0	21.04	21.18	21.33
5	16QAM	1	12	21.33	21.38	21.32
5	16QAM	1	24	21.25	21.35	21.37
5	16QAM	12	0	20.55	20.23	20.23
5	16QAM	12	7	20.40	20.29	20.41
5	16QAM	12	13	20.30	20.45	20.03
5	16QAM	25	0	20.52	20.42	20.41



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18615	18900	19185
				1851.5	1880	1908.5
3	QPSK	1	0	22.71	22.40	22.11
3	QPSK	1	8	22.51	22.48	22.61
3	QPSK	1	14	22.68	22.61	22.24
3	QPSK	8	0	21.14	21.06	21.12
3	QPSK	8	4	21.18	21.33	21.04
3	QPSK	8	7	21.34	21.15	21.15
3	QPSK	15	0	21.12	21.17	21.07
3	16QAM	1	0	21.23	21.29	21.18
3	16QAM	1	8	21.18	21.14	21.36
3	16QAM	1	14	21.22	21.26	21.18
3	16QAM	8	0	20.55	20.36	20.39
3	16QAM	8	4	20.43	20.32	20.38
3	16QAM	8	7	20.36	20.41	20.40
3	16QAM	15	0	20.39	20.15	20.37

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18607	18900	19193
				1850.7	1880	1909.3
1.4	QPSK	1	0	22.66	22.62	22.57
1.4	QPSK	1	3	22.59	22.74	22.05
1.4	QPSK	1	5	22.78	22.55	22.53
1.4	QPSK	3	0	21.27	20.99	21.16
1.4	QPSK	3	1	21.00	21.20	21.26
1.4	QPSK	3	3	21.27	21.21	21.30
1.4	QPSK	6	0	21.07	21.01	21.17
1.4	16QAM	1	0	21.06	21.13	21.31
1.4	16QAM	1	3	21.40	21.30	21.45
1.4	16QAM	1	5	21.35	21.19	21.32
1.4	16QAM	3	0	20.31	20.52	20.48
1.4	16QAM	3	1	20.30	20.20	20.30
1.4	16QAM	3	3	20.24	20.34	20.65
1.4	16QAM	6	0	20.22	20.35	20.40



LTE Band 4

LTE Band 4						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20050	20175	20300
				1720	1747.5	1775
20	QPSK	1	0	22.42	22.60	22.28
20	QPSK	1	49	22.49	22.45	22.11
20	QPSK	1	99	22.53	22.24	22.44
20	QPSK	50	0	21.11	21.07	21.44
20	QPSK	50	24	20.99	21.33	20.98
20	QPSK	50	50	21.39	21.29	21.17
20	QPSK	100	0	21.33	21.32	21.50
20	16QAM	1	0	21.08	21.32	21.04
20	16QAM	1	49	21.15	21.54	21.17
20	16QAM	1	99	21.08	21.22	21.27
20	16QAM	50	0	20.46	20.06	20.40
20	16QAM	50	24	20.11	20.43	20.64
20	16QAM	50	50	20.56	20.23	20.39
20	16QAM	100	0	20.47	20.41	20.41

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20025	20175	20325
				1717.5	1747.5	1777.5
15	QPSK	1	0	22.39	22.48	22.53
15	QPSK	1	37	22.77	22.18	22.68
15	QPSK	1	74	22.45	22.85	22.48
15	QPSK	36	0	21.24	21.51	21.38
15	QPSK	36	20	21.10	21.19	21.22
15	QPSK	36	39	20.88	21.42	21.24
15	QPSK	75	0	21.07	21.24	21.11
15	16QAM	1	0	21.29	21.40	21.21
15	16QAM	1	37	21.32	21.50	21.20
15	16QAM	1	74	21.24	21.44	21.40
15	16QAM	36	0	20.47	20.48	20.12
15	16QAM	36	20	20.23	20.28	20.51
15	16QAM	36	39	20.31	20.38	20.07
15	16QAM	75	0	20.05	20.16	20.23



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20000	20175	20350
				1715	1747.5	1780
10	QPSK	1	0	22.43	22.57	22.44
10	QPSK	1	25	22.66	22.01	22.59
10	QPSK	1	49	22.59	22.10	22.61
10	QPSK	25	0	21.37	21.19	21.26
10	QPSK	25	12	21.00	21.38	21.36
10	QPSK	25	25	21.21	21.35	21.23
10	QPSK	50	0	21.25	21.39	21.24
10	16QAM	1	0	21.18	21.04	21.36
10	16QAM	1	25	21.12	21.06	21.10
10	16QAM	1	49	20.98	21.24	21.05
10	16QAM	25	0	20.65	20.57	20.34
10	16QAM	25	12	20.46	20.43	20.37
10	16QAM	25	25	20.35	20.32	20.54
10	16QAM	50	0	20.45	20.28	20.49

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19975	20175	20375
				1712.5	1747.5	1782.5
5	QPSK	1	0	22.26	22.58	22.16
5	QPSK	1	12	22.61	22.65	22.66
5	QPSK	1	24	22.26	22.30	22.80
5	QPSK	12	0	21.38	20.98	21.14
5	QPSK	12	7	21.33	20.92	21.18
5	QPSK	12	13	21.50	21.23	21.46
5	QPSK	25	0	21.05	21.29	21.28
5	16QAM	1	0	21.14	21.22	21.37
5	16QAM	1	12	21.22	21.07	21.28
5	16QAM	1	24	21.40	21.18	21.13
5	16QAM	12	0	20.37	20.58	20.29
5	16QAM	12	7	20.48	20.41	20.40
5	16QAM	12	13	20.55	20.48	20.32
5	16QAM	25	0	20.22	20.67	20.33



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19665	20175	20385
				1711.5	1747.5	1783.5
3	QPSK	1	0	22.72	22.55	22.17
3	QPSK	1	8	22.57	22.81	22.52
3	QPSK	1	14	22.67	22.53	22.70
3	QPSK	8	0	21.17	21.08	21.42
3	QPSK	8	4	21.34	21.26	21.30
3	QPSK	8	7	21.17	21.32	21.38
3	QPSK	15	0	20.91	21.10	21.36
3	16QAM	1	0	21.27	21.17	21.28
3	16QAM	1	8	21.39	21.14	21.23
3	16QAM	1	14	20.93	21.30	21.43
3	16QAM	8	0	20.21	20.25	20.56
3	16QAM	8	4	20.25	20.42	20.29
3	16QAM	8	7	20.41	20.13	20.25
3	16QAM	15	0	20.31	20.49	20.45

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19957	20175	20393
				1710.7	1747.5	1784.3
1.4	QPSK	1	0	22.42	22.24	22.15
1.4	QPSK	1	3	22.45	22.54	22.79
1.4	QPSK	1	5	22.76	22.26	22.11
1.4	QPSK	3	0	21.29	21.26	21.44
1.4	QPSK	3	1	21.15	21.42	21.07
1.4	QPSK	3	3	21.25	21.39	21.44
1.4	QPSK	6	0	21.57	21.38	21.50
1.4	16QAM	1	0	21.10	21.29	21.29
1.4	16QAM	1	3	21.39	21.25	21.43
1.4	16QAM	1	5	21.11	21.32	21.01
1.4	16QAM	3	0	20.39	20.14	20.66
1.4	16QAM	3	1	20.41	20.10	20.54
1.4	16QAM	3	3	20.34	20.24	20.31
1.4	16QAM	6	0	20.38	20.27	20.28



LTE Band 5

LTE Band 5						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20450	20525	20600
				829	836.5	844
10	QPSK	1	0	22.72	22.15	22.35
10	QPSK	1	25	22.66	22.21	22.36
10	QPSK	1	49	22.59	22.23	22.18
10	QPSK	25	0	21.04	21.15	21.27
10	QPSK	25	12	21.14	21.09	21.18
10	QPSK	25	25	21.38	21.20	21.07
10	QPSK	50	0	21.31	20.80	21.25
10	16QAM	1	0	21.28	20.94	21.46
10	16QAM	1	25	21.10	21.20	20.86
10	16QAM	1	49	21.13	20.82	21.34
10	16QAM	25	0	20.22	20.20	19.90
10	16QAM	25	12	20.17	20.29	19.91
10	16QAM	25	25	20.30	20.25	20.11
10	16QAM	50	0	20.16	20.39	20.07

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20425	20525	20625
				826.5	836.5	846.5
5	QPSK	1	0	22.10	22.55	21.81
5	QPSK	1	12	22.33	22.39	22.15
5	QPSK	1	24	22.29	22.19	22.20
5	QPSK	12	0	21.04	21.03	20.99
5	QPSK	12	7	21.19	21.04	21.17
5	QPSK	12	13	21.20	21.17	21.23
5	QPSK	25	0	21.31	21.16	20.99
5	16QAM	1	0	21.49	20.85	21.21
5	16QAM	1	12	21.06	20.84	21.00
5	16QAM	1	24	21.10	21.31	20.79
5	16QAM	12	0	20.24	20.13	20.45
5	16QAM	12	7	20.08	20.17	20.02
5	16QAM	12	13	20.31	20.30	19.94
5	16QAM	25	0	20.50	20.06	20.43



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20415	20525	20635
				825.5	836.5	844
3	QPSK	1	0	21.97	22.28	22.50
3	QPSK	1	8	21.85	22.69	21.98
3	QPSK	1	14	22.37	22.25	22.28
3	QPSK	8	0	21.16	21.02	21.00
3	QPSK	8	4	20.92	21.24	21.12
3	QPSK	8	7	21.24	21.12	20.85
3	QPSK	15	0	21.11	21.15	21.03
3	16QAM	1	0	21.10	21.00	21.06
3	16QAM	1	8	21.02	21.30	21.07
3	16QAM	1	14	20.76	21.13	21.37
3	16QAM	8	0	19.96	20.16	20.05
3	16QAM	8	4	19.94	20.10	20.28
3	16QAM	8	7	20.10	20.14	19.96
3	16QAM	15	0	20.33	20.19	20.06

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20407	20525	20643
				824.7	836.5	848.3
1.4	QPSK	1	0	22.44	21.83	22.51
1.4	QPSK	1	3	22.47	22.37	22.45
1.4	QPSK	1	5	22.46	22.64	22.67
1.4	QPSK	3	0	21.11	21.08	21.22
1.4	QPSK	3	1	20.84	21.22	20.85
1.4	QPSK	3	3	21.07	20.94	20.94
1.4	QPSK	6	0	21.04	20.78	21.24
1.4	16QAM	1	0	21.06	21.23	21.41
1.4	16QAM	1	3	21.13	21.21	21.40
1.4	16QAM	1	5	20.93	20.93	21.38
1.4	16QAM	3	0	20.14	20.02	20.08
1.4	16QAM	3	1	20.00	20.43	20.03
1.4	16QAM	3	3	20.33	20.02	20.23
1.4	16QAM	6	0	20.14	20.29	20.41



LTE Band 7

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20850	21100	21350
				2510	2535	2560
20	QPSK	1	0	22.62	22.24	22.61
20	QPSK	1	49	22.25	22.04	22.59
20	QPSK	1	99	22.76	22.96	21.96
20	QPSK	50	0	21.04	21.30	21.02
20	QPSK	50	24	21.28	21.33	21.20
20	QPSK	50	50	21.05	21.30	21.06
20	QPSK	100	0	21.18	21.47	21.18
20	16QAM	1	0	21.28	21.05	21.25
20	16QAM	1	49	21.52	21.46	21.20
20	16QAM	1	99	21.13	21.45	21.28
20	16QAM	50	0	20.00	20.25	20.28
20	16QAM	50	24	20.56	20.28	20.37
20	16QAM	50	50	20.15	20.15	20.22
20	16QAM	100	0	20.35	20.57	20.23

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20825	21100	21375
				2507.5	2535	2562.5
15	QPSK	1	0	22.63	22.48	22.76
15	QPSK	1	37	22.32	22.20	22.38
15	QPSK	1	74	22.04	22.57	22.12
15	QPSK	36	0	21.29	20.96	20.96
15	QPSK	36	20	21.47	21.33	21.15
15	QPSK	36	39	21.21	20.86	21.15
15	QPSK	75	0	21.01	21.32	21.48
15	16QAM	1	0	21.13	21.22	21.17
15	16QAM	1	37	21.09	20.91	21.42
15	16QAM	1	74	21.46	21.22	21.24
15	16QAM	36	0	20.24	20.47	20.41
15	16QAM	36	20	20.10	20.04	20.48
15	16QAM	36	39	20.18	20.22	20.28
15	16QAM	75	0	20.23	20.35	20.20



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20800	21100	21400
				2505	2535	2565
10	QPSK	1	0	22.43	22.51	21.97
10	QPSK	1	25	22.19	22.77	22.25
10	QPSK	1	49	22.14	22.30	22.76
10	QPSK	25	0	21.54	21.24	21.17
10	QPSK	25	12	21.19	21.12	21.02
10	QPSK	25	25	21.35	21.00	21.29
10	QPSK	50	0	21.28	21.45	21.20
10	16QAM	1	0	21.31	21.25	21.36
10	16QAM	1	25	21.17	21.17	21.22
10	16QAM	1	49	21.16	21.01	20.92
10	16QAM	25	0	20.34	20.12	20.13
10	16QAM	25	12	20.42	20.30	20.15
10	16QAM	25	25	20.30	20.25	20.19
10	16QAM	50	0	20.53	20.53	20.31

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20775	21100	21425
				2502.5	2535	2567.5
5	QPSK	1	0	22.23	22.27	22.08
5	QPSK	1	12	22.55	22.58	22.38
5	QPSK	1	24	22.08	22.76	22.16
5	QPSK	12	0	21.09	20.87	21.08
5	QPSK	12	7	21.41	21.48	21.02
5	QPSK	12	13	20.91	21.41	21.24
5	QPSK	25	0	21.18	20.84	21.19
5	16QAM	1	0	20.94	21.42	21.17
5	16QAM	1	12	21.43	21.30	21.19
5	16QAM	1	24	21.38	20.94	21.07
5	16QAM	12	0	20.39	20.48	20.28
5	16QAM	12	7	20.60	20.32	20.44
5	16QAM	12	13	20.46	20.37	20.17
5	16QAM	25	0	20.34	20.24	20.34



LTE Band 12

LTE Band 12						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23060	23095	23130
				704	707.5	711
10	QPSK	1	0	22.51	22.59	22.70
10	QPSK	1	25	22.13	22.52	22.40
10	QPSK	1	49	22.75	22.38	22.55
10	QPSK	25	0	20.96	21.25	21.19
10	QPSK	25	12	21.10	21.12	21.12
10	QPSK	25	25	21.10	21.10	21.05
10	QPSK	50	0	21.27	21.16	21.38
10	16QAM	1	0	21.29	21.13	21.25
10	16QAM	1	25	21.11	21.16	21.09
10	16QAM	1	49	21.18	21.16	21.29
10	16QAM	25	0	20.22	20.25	19.99
10	16QAM	25	12	20.38	20.15	20.51
10	16QAM	25	25	20.55	20.32	20.39
10	16QAM	50	0	20.09	20.55	20.26

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23035	23095	23155
				701.5	707.5	713.5
5	QPSK	1	0	22.88	22.44	22.34
5	QPSK	1	12	22.01	22.03	22.08
5	QPSK	1	24	22.63	22.45	22.46
5	QPSK	12	0	20.92	21.18	21.07
5	QPSK	12	7	21.15	21.08	21.21
5	QPSK	12	13	21.06	21.50	21.17
5	QPSK	25	0	21.05	21.25	21.19
5	16QAM	1	0	21.07	21.20	21.01
5	16QAM	1	12	20.98	21.10	21.46
5	16QAM	1	24	21.39	21.20	21.36
5	16QAM	12	0	20.12	20.28	20.59
5	16QAM	12	7	20.34	20.50	20.35
5	16QAM	12	13	20.12	20.04	20.29
5	16QAM	25	0	20.26	20.21	20.29



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23025	23095	23165
				700.5	707.5	714.5
3	QPSK	1	0	22.75	22.53	22.20
3	QPSK	1	8	22.24	21.99	22.43
3	QPSK	1	14	22.56	22.25	22.78
3	QPSK	8	0	21.03	21.07	21.12
3	QPSK	8	4	21.06	21.22	20.94
3	QPSK	8	7	21.25	21.14	21.08
3	QPSK	15	0	21.29	21.26	21.04
3	16QAM	1	0	21.11	21.42	21.29
3	16QAM	1	8	21.23	21.02	21.04
3	16QAM	1	14	21.28	21.34	21.17
3	16QAM	8	0	20.19	20.11	20.63
3	16QAM	8	4	20.24	20.39	20.45
3	16QAM	8	7	20.54	20.30	20.30
3	16QAM	15	0	20.09	20.14	20.21

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23017	23095	23173
				699.7	707.5	715.3
1.4	QPSK	1	0	22.27	22.06	21.91
1.4	QPSK	1	3	22.59	22.43	22.56
1.4	QPSK	1	5	22.64	22.50	22.82
1.4	QPSK	3	0	21.24	21.30	21.17
1.4	QPSK	3	1	21.20	21.26	21.05
1.4	QPSK	3	3	21.07	20.99	20.93
1.4	QPSK	6	0	21.17	21.15	21.13
1.4	16QAM	1	0	20.89	21.17	21.32
1.4	16QAM	1	3	21.11	21.23	21.28
1.4	16QAM	1	5	21.51	21.42	21.31
1.4	16QAM	3	0	20.13	20.27	20.36
1.4	16QAM	3	1	20.39	20.55	20.44
1.4	16QAM	3	3	20.38	20.37	20.36
1.4	16QAM	6	0	20.23	20.23	20.46



LTE Band 17

LTE Band 17						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23780	23790	23800
				709	710	711
10	QPSK	1	0	22.68	21.88	22.20
10	QPSK	1	25	22.55	22.64	22.34
10	QPSK	1	49	22.14	22.65	22.16
10	QPSK	25	0	21.07	21.15	21.24
10	QPSK	25	12	21.10	21.29	21.05
10	QPSK	25	25	21.18	21.01	21.13
10	QPSK	50	0	21.15	21.18	21.16
10	16QAM	1	0	21.32	21.25	21.06
10	16QAM	1	25	21.15	21.08	21.29
10	16QAM	1	49	21.36	21.36	21.12
10	16QAM	25	0	20.35	20.49	20.43
10	16QAM	25	12	20.11	20.16	20.32
10	16QAM	25	25	20.42	20.47	20.50
10	16QAM	50	0	20.26	20.18	20.26

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23755	23790	23825
				706.5	710	713.5
5	QPSK	1	0	22.24	22.58	22.27
5	QPSK	1	12	22.45	22.46	22.35
5	QPSK	1	24	22.39	22.49	22.15
5	QPSK	12	0	20.86	21.38	21.18
5	QPSK	12	7	21.47	20.93	21.53
5	QPSK	12	13	21.51	20.97	21.27
5	QPSK	25	0	21.24	21.29	21.38
5	16QAM	1	0	21.47	21.15	21.40
5	16QAM	1	12	21.49	21.19	21.16
5	16QAM	1	24	20.82	21.13	21.31
5	16QAM	12	0	20.37	20.32	20.18
5	16QAM	12	7	20.41	20.49	20.30
5	16QAM	12	13	20.16	20.09	20.51
5	16QAM	25	0	20.28	20.32	20.33



LTE Band 18

LTE FDD Band 18(824-830MHz)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23965	23970	23975
				826.5	827.0	827.5
5	QPSK	1	0	22.26	22.46	22.34
5	QPSK	1	12	22.11	21.95	21.71
5	QPSK	1	24	21.63	21.78	22.51
5	QPSK	12	0	20.76	20.48	20.86
5	QPSK	12	7	20.62	20.67	20.47
5	QPSK	12	13	21.15	20.86	21.34
5	QPSK	25	0	20.70	21.19	21.25
5	16QAM	1	0	20.81	20.61	20.95
5	16QAM	1	12	21.15	20.41	20.74
5	16QAM	1	24	21.22	20.82	20.49
5	16QAM	12	0	19.72	20.11	20.06
5	16QAM	12	7	19.90	20.15	20.41
5	16QAM	12	13	20.32	19.99	19.82
5	16QAM	25	0	20.23	20.26	20.27

LTE FDD Band 18(815-824MHz)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23875	23895	23915
				817.5	819.5	821.5
5	QPSK	1	0	22.10	22.43	22.06
5	QPSK	1	12	22.33	22.32	22.13
5	QPSK	1	24	21.73	21.62	21.53
5	QPSK	12	0	21.11	20.84	20.69
5	QPSK	12	7	20.83	20.86	20.65
5	QPSK	12	13	21.58	21.31	21.06
5	QPSK	25	0	20.86	21.39	21.00
5	16QAM	1	0	20.95	20.74	21.41
5	16QAM	1	12	21.31	20.78	21.50
5	16QAM	1	24	21.43	20.97	20.95
5	16QAM	12	0	20.37	20.02	20.37
5	16QAM	12	7	20.08	20.69	20.34
5	16QAM	12	13	20.08	20.02	20.53
5	16QAM	25	0	20.73	20.46	19.84



LTE Band 19

LTE FDD Band 19						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
					24075	
					837.5	
15	QPSK	1	0		22.32	
15	QPSK	1	37		22.05	
15	QPSK	1	74		21.41	
15	QPSK	36	0		21.25	
15	QPSK	36	20		20.67	
15	QPSK	36	39		21.45	
15	QPSK	75	0		20.55	
15	16QAM	1	0		21.22	
15	16QAM	1	37		21.23	
15	16QAM	1	74		21.16	
15	16QAM	36	0		20.26	
15	16QAM	36	20		20.15	
15	16QAM	36	39		20.01	
15	16QAM	75	0		20.03	
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				24050	24075	24100
				835	837.5	840
10	QPSK	1	0	22.49	22.28	22.26
10	QPSK	1	25	22.05	21.87	21.97
10	QPSK	1	49	21.82	21.68	21.84
10	QPSK	25	0	21.29	21.30	21.11
10	QPSK	25	12	21.10	21.17	21.27
10	QPSK	25	25	21.07	21.40	20.98
10	QPSK	50	0	20.88	21.30	21.02
10	16QAM	1	0	21.24	20.81	21.41
10	16QAM	1	25	21.08	20.95	20.84
10	16QAM	1	49	20.43	20.97	21.26
10	16QAM	25	0	20.27	20.24	19.90
10	16QAM	25	12	19.89	20.22	20.06
10	16QAM	25	25	20.04	20.17	20.09
10	16QAM	50	0	19.99	20.22	19.84
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				24025	24075	24125



				832.5	837.5	842.5
5	QPSK	1	0	22.37	22.45	22.05
5	QPSK	1	12	22.13	22.14	21.86
5	QPSK	1	24	21.90	21.73	21.93
5	QPSK	12	0	21.35	20.60	21.09
5	QPSK	12	7	21.31	21.31	21.19
5	QPSK	12	13	21.06	21.22	20.98
5	QPSK	25	0	20.98	21.28	21.13
5	16QAM	1	0	21.30	20.63	21.34
5	16QAM	1	12	21.10	20.99	20.64
5	16QAM	1	24	20.51	21.01	21.26
5	16QAM	12	0	20.12	20.23	19.98
5	16QAM	12	7	19.86	20.29	20.12
5	16QAM	12	13	19.93	20.07	19.80
5	16QAM	25	0	19.79	20.36	19.82



LTE Band 25

LTE Band 25						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26140	26365	26590
				1860	1882.5	1905
20	QPSK	1	0	22.21	21.98	22.46
20	QPSK	1	49	22.42	22.58	21.96
20	QPSK	1	99	22.28	22.01	22.18
20	QPSK	50	0	21.02	21.19	21.25
20	QPSK	50	24	21.06	21.07	20.90
20	QPSK	50	50	21.11	21.01	21.21
20	QPSK	100	0	21.13	21.20	21.01
20	16QAM	1	0	21.18	21.27	21.21
20	16QAM	1	49	21.38	21.24	20.89
20	16QAM	1	99	20.98	20.85	21.31
20	16QAM	50	0	20.22	20.12	20.08
20	16QAM	50	24	20.34	20.42	20.54
20	16QAM	50	50	20.23	20.44	20.10
20	16QAM	100	0	20.41	20.15	20.09

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26115	26365	26615
				1857.5	1882.5	1907.5
15	QPSK	1	0	22.06	22.60	22.36
15	QPSK	1	37	22.75	22.53	22.70
15	QPSK	1	74	22.32	22.09	22.03
15	QPSK	36	0	21.33	21.36	21.39
15	QPSK	36	20	21.26	21.02	20.93
15	QPSK	36	39	21.10	21.30	21.06
15	QPSK	75	0	21.33	21.18	21.14
15	16QAM	1	0	21.26	20.86	20.94
15	16QAM	1	37	21.15	21.27	21.11
15	16QAM	1	74	21.23	21.15	21.10
15	16QAM	36	0	20.23	20.40	20.24
15	16QAM	36	20	20.47	20.30	20.26
15	16QAM	36	39	20.37	20.26	20.11
15	16QAM	75	0	20.24	20.04	20.12



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26090	26365	26640
				1855	1882.5	1910
10	QPSK	1	0	22.76	22.36	22.41
10	QPSK	1	25	22.52	22.16	22.66
10	QPSK	1	49	22.35	22.34	22.03
10	QPSK	25	0	21.02	21.12	20.90
10	QPSK	25	12	21.33	21.02	20.85
10	QPSK	25	25	21.31	21.41	21.15
10	QPSK	50	0	21.01	21.39	21.18
10	16QAM	1	0	20.80	21.22	21.23
10	16QAM	1	25	21.02	20.88	21.21
10	16QAM	1	49	21.32	21.32	21.13
10	16QAM	25	0	20.34	20.46	20.58
10	16QAM	25	12	20.20	20.49	20.56
10	16QAM	25	25	20.22	20.32	20.37
10	16QAM	50	0	20.14	20.39	20.07

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26065	26365	26665
				1852.5	1882.5	1912.5
5	QPSK	1	0	22.41	22.17	22.42
5	QPSK	1	12	22.75	22.27	22.06
5	QPSK	1	24	22.62	22.73	22.42
5	QPSK	12	0	21.23	21.06	21.38
5	QPSK	12	7	21.08	21.16	20.87
5	QPSK	12	13	21.08	21.05	21.41
5	QPSK	25	0	21.30	21.25	21.09
5	16QAM	1	0	21.48	21.38	21.09
5	16QAM	1	12	21.01	21.08	21.08
5	16QAM	1	24	21.16	21.39	21.05
5	16QAM	12	0	20.42	20.38	20.23
5	16QAM	12	7	20.31	20.00	20.36
5	16QAM	12	13	20.21	20.28	20.14
5	16QAM	25	0	20.20	20.07	20.25

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26055	26365	26675



				1851.5	1882.5	1913.5
3	QPSK	1	0	22.81	22.46	22.54
3	QPSK	1	8	21.81	21.86	22.07
3	QPSK	1	14	22.90	22.66	22.16
3	QPSK	8	0	21.19	21.04	21.04
3	QPSK	8	4	21.21	21.01	21.41
3	QPSK	8	7	21.27	21.01	21.12
3	QPSK	15	0	21.39	21.15	21.47
3	16QAM	1	0	21.15	21.28	20.93
3	16QAM	1	8	21.09	21.05	21.42
3	16QAM	1	14	21.14	21.09	20.95
3	16QAM	8	0	20.30	20.14	20.45
3	16QAM	8	4	19.99	20.21	20.50
3	16QAM	8	7	20.34	20.41	20.30
3	16QAM	15	0	20.36	20.44	20.22

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26047	26365	26683
				1850.7	1882.5	1914.3
1.4	QPSK	1	0	22.20	22.46	22.28
1.4	QPSK	1	3	22.40	22.27	22.43
1.4	QPSK	1	5	22.03	22.11	22.13
1.4	QPSK	3	0	21.11	21.35	21.17
1.4	QPSK	3	1	21.43	21.37	21.10
1.4	QPSK	3	3	21.35	21.13	21.34
1.4	QPSK	6	0	21.23	21.44	21.27
1.4	16QAM	1	0	20.90	21.11	21.06
1.4	16QAM	1	3	21.00	21.37	21.43
1.4	16QAM	1	5	21.24	21.12	21.01
1.4	16QAM	3	0	20.31	20.34	20.24
1.4	16QAM	3	1	20.57	20.05	20.16
1.4	16QAM	3	3	20.36	20.52	20.43
1.4	16QAM	6	0	19.98	20.01	19.99



LTE Band 26

LTE Band 26(824- 849 MHz)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26865	26915	26965
				831.5	836.5	841.5
15	QPSK	1	0	22.32	22.53	22.45
15	QPSK	1	37	22.44	21.86	22.60
15	QPSK	1	74	22.52	22.27	22.46
15	QPSK	36	0	21.04	21.10	21.43
15	QPSK	36	20	21.28	21.09	21.30
15	QPSK	36	39	20.84	21.43	20.98
15	QPSK	75	0	21.25	21.20	21.28
15	16QAM	1	0	21.27	21.38	21.17
15	16QAM	1	37	20.93	21.21	21.30
15	16QAM	1	74	21.21	21.26	21.47
15	16QAM	36	0	20.19	20.24	20.56
15	16QAM	36	20	19.83	20.26	20.19
15	16QAM	36	39	20.27	20.32	20.50
15	16QAM	75	0	20.02	20.36	20.28
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26840	26915	26990
				829	836.5	844
10	QPSK	1	0	22.32	22.62	22.13
10	QPSK	1	25	22.66	22.02	22.52
10	QPSK	1	49	22.54	22.20	22.52
10	QPSK	25	0	21.20	20.95	21.33
10	QPSK	25	12	21.37	21.39	21.27
10	QPSK	25	25	21.09	21.48	21.25
10	QPSK	50	0	21.14	21.64	21.22
10	16QAM	1	0	21.12	20.78	21.56
10	16QAM	1	25	21.20	21.09	21.05
10	16QAM	1	49	20.93	21.67	21.40
10	16QAM	25	0	20.40	20.22	20.23
10	16QAM	25	12	20.33	20.56	20.36
10	16QAM	25	25	20.27	20.24	20.30
10	16QAM	50	0	20.43	20.47	20.54
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20425	20525	20625
				826.5	836.5	846.5



5	QPSK	1	0	22.19	22.84	21.99
5	QPSK	1	12	22.44	22.59	22.43
5	QPSK	1	24	21.93	22.09	22.79
5	QPSK	12	0	21.16	21.03	21.10
5	QPSK	12	7	21.16	21.02	21.00
5	QPSK	12	13	21.43	21.15	21.34
5	QPSK	25	0	21.14	21.44	21.33
5	16QAM	1	0	21.21	21.26	21.55
5	16QAM	1	12	21.27	21.14	21.40
5	16QAM	1	24	21.51	21.01	21.06
5	16QAM	12	0	20.36	20.39	20.20
5	16QAM	12	7	20.21	20.49	20.33
5	16QAM	12	13	20.44	20.25	20.22
5	16QAM	25	0	20.48	20.46	20.37
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26805	26915	27025
				825.5	836.5	847.5
3	QPSK	1	0	22.75	22.62	21.86
3	QPSK	1	8	22.59	22.60	22.35
3	QPSK	1	14	22.54	22.39	22.34
3	QPSK	8	0	21.30	21.28	21.19
3	QPSK	8	4	21.26	21.39	21.28
3	QPSK	8	7	20.97	21.15	21.38
3	QPSK	15	0	20.96	20.93	21.24
3	16QAM	1	0	20.97	21.44	21.38
3	16QAM	1	8	21.69	21.23	21.39
3	16QAM	1	14	21.11	21.18	21.56
3	16QAM	8	0	20.15	20.15	20.37
3	16QAM	8	4	20.16	20.37	20.23
3	16QAM	8	7	20.48	20.00	20.16
3	16QAM	15	0	20.04	20.29	20.27
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26797	26915	27033
				824.7	836.5	848.3
1.4	QPSK	1	0	22.68	22.07	22.18
1.4	QPSK	1	3	22.51	22.50	22.42
1.4	QPSK	1	5	22.47	22.09	22.15
1.4	QPSK	3	0	21.28	21.32	21.21
1.4	QPSK	3	1	21.00	21.43	20.82



1.4	QPSK	3	3	21.35	21.16	21.44
1.4	QPSK	6	0	21.64	21.43	21.26
1.4	16QAM	1	0	21.11	21.10	21.27
1.4	16QAM	1	3	21.38	21.10	21.26
1.4	16QAM	1	5	21.15	21.14	21.33
1.4	16QAM	3	0	20.68	20.11	20.22
1.4	16QAM	3	1	20.42	20.25	20.50
1.4	16QAM	3	3	20.42	19.98	20.37
1.4	16QAM	6	0	20.51	20.37	20.32

LTE Band 26(814-824 MHz)						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
					26740	
					819	
10	QPSK	1	0		22.09	
10	QPSK	1	25		22.29	
10	QPSK	1	49		22.19	
10	QPSK	25	0		21.18	
10	QPSK	25	12		21.31	
10	QPSK	25	25		21.46	
10	QPSK	50	0		21.08	
10	16QAM	1	0		20.89	
10	16QAM	1	25		21.30	
10	16QAM	1	49		21.15	
10	16QAM	25	0		20.04	
10	16QAM	25	12		20.46	
10	16QAM	25	25		20.18	
10	16QAM	50	0		20.41	
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26715	26740	26765
				816.5	819	821.5
5	QPSK	1	0	22.49	22.62	22.00
5	QPSK	1	12	22.28	22.39	21.98
5	QPSK	1	24	22.55	22.32	22.44
5	QPSK	12	0	21.17	20.95	20.96
5	QPSK	12	7	21.52	21.06	21.29
5	QPSK	12	13	21.38	21.26	21.42
5	QPSK	25	0	21.26	21.18	21.07
5	16QAM	1	0	21.18	20.94	21.24



5	16QAM	1	12	21.29	21.05	21.18
5	16QAM	1	24	21.06	21.38	20.74
5	16QAM	12	0	19.98	20.26	20.25
5	16QAM	12	7	20.14	20.44	20.18
5	16QAM	12	13	20.34	20.29	19.99
5	16QAM	25	0	20.34	20.16	20.47
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26705	26740	26775
				815.5	819	822.5
3	QPSK	1	0	22.02	22.28	22.45
3	QPSK	1	8	21.93	22.54	22.08
3	QPSK	1	14	22.39	22.33	22.15
3	QPSK	8	0	21.49	21.01	20.80
3	QPSK	8	4	21.01	21.14	21.21
3	QPSK	8	7	21.30	20.98	20.80
3	QPSK	15	0	21.21	21.25	21.23
3	16QAM	1	0	21.38	21.06	21.12
3	16QAM	1	8	20.92	21.46	21.41
3	16QAM	1	14	21.01	21.27	21.37
3	16QAM	8	0	20.21	20.02	19.97
3	16QAM	8	4	19.96	20.13	20.36
3	16QAM	8	7	20.17	20.17	20.27
3	16QAM	15	0	20.34	20.40	20.03
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26697	26740	26783
				814.7	819	823.3
1.4	QPSK	1	0	22.66	21.77	22.46
1.4	QPSK	1	3	22.45	22.30	22.41
1.4	QPSK	1	5	22.64	22.59	22.84
1.4	QPSK	3	0	21.07	21.09	21.05
1.4	QPSK	3	1	20.85	21.07	20.90
1.4	QPSK	3	3	21.24	20.83	20.91
1.4	QPSK	6	0	20.92	21.08	21.36
1.4	16QAM	1	0	20.95	21.32	21.38
1.4	16QAM	1	3	21.19	21.17	21.20
1.4	16QAM	1	5	21.10	21.08	21.28
1.4	16QAM	3	0	20.33	20.04	20.35
1.4	16QAM	3	1	20.13	20.33	20.28
1.4	16QAM	3	3	20.54	20.09	20.27



1.4	16QAM	6	0	20.26	20.30	20.22
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LTE Band 38

LTE Band 38						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37850	38000	38150
				2580	2595	2610
20	QPSK	1	0	21.96	22.17	22.27
20	QPSK	1	49	22.17	22.63	22.01
20	QPSK	1	99	22.26	22.12	21.98
20	QPSK	50	0	21.27	21.10	21.01
20	QPSK	50	24	20.97	20.93	20.95
20	QPSK	50	50	20.73	21.35	20.75
20	QPSK	100	0	21.44	21.10	21.35
20	16QAM	1	0	21.28	21.18	21.13
20	16QAM	1	49	21.09	20.89	20.90
20	16QAM	1	99	21.44	20.88	20.76
20	16QAM	50	0	20.43	19.90	20.40
20	16QAM	50	24	20.06	20.24	20.09
20	16QAM	50	50	20.17	19.93	20.15
20	16QAM	100	0	20.05	20.09	20.18

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37825	38000	38175
				2577.5	2595	2612.5
15	QPSK	1	0	23.25	23.39	23.16
15	QPSK	1	37	23.44	23.69	23.21
15	QPSK	1	74	23.42	23.33	23.07
15	QPSK	36	0	22.33	22.49	22.05
15	QPSK	36	20	22.42	22.46	22.43
15	QPSK	36	39	22.07	22.62	22.16
15	QPSK	75	0	22.43	22.50	22.56
15	16QAM	1	0	22.28	22.35	22.39
15	16QAM	1	37	22.02	21.97	22.16
15	16QAM	1	74	22.66	22.11	22.16
15	16QAM	36	0	21.43	21.17	21.67
15	16QAM	36	20	21.49	21.60	21.22
15	16QAM	36	39	21.62	21.37	21.42
15	16QAM	75	0	21.42	21.28	21.43



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37800	38000	38200
				2575	2595	2615
10	QPSK	1	0	22.14	22.22	22.17
10	QPSK	1	25	22.20	22.67	21.86
10	QPSK	1	49	22.31	22.15	21.87
10	QPSK	25	0	21.29	21.09	20.92
10	QPSK	25	12	21.02	21.14	20.94
10	QPSK	25	25	20.89	21.42	20.91
10	QPSK	50	0	21.35	21.14	21.46
10	16QAM	1	0	21.19	20.92	21.17
10	16QAM	1	25	20.81	20.97	20.88
10	16QAM	1	49	21.35	20.74	20.98
10	16QAM	25	0	20.33	20.16	20.37
10	16QAM	25	12	20.35	20.49	20.13
10	16QAM	25	25	20.25	20.14	20.37
10	16QAM	50	0	20.27	20.14	20.26

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37775	38000	38225
				2572.5	2595	2617.5
5	QPSK	1	0	22.09	22.23	22.26
5	QPSK	1	12	22.36	22.64	21.98
5	QPSK	1	24	22.19	22.10	21.84
5	QPSK	12	0	21.17	21.08	21.01
5	QPSK	12	7	21.25	21.24	21.11
5	QPSK	12	13	20.90	21.13	20.99
5	QPSK	25	0	21.36	21.08	21.19
5	16QAM	1	0	21.24	21.07	21.19
5	16QAM	1	12	21.04	20.96	20.94
5	16QAM	1	24	21.27	20.98	20.97
5	16QAM	12	0	20.21	20.04	20.34
5	16QAM	12	7	20.33	20.32	20.13
5	16QAM	12	13	20.40	20.01	20.40
5	16QAM	25	0	20.08	20.10	20.23



LTE Band 41

LTE Band 41								
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39750	40185	40620	41055	41490
				2506.0	2549.5	2593.0	2636.5	2680.0
20	QPSK	1	0	22.26	22.38	22.16	22.12	22.38
20	QPSK	1	49	22.33	22.06	21.77	22.00	21.95
20	QPSK	1	99	22.44	22.63	22.38	22.29	22.03
20	QPSK	50	0	20.81	21.10	21.30	21.27	21.23
20	QPSK	50	24	21.04	21.06	21.08	20.91	21.01
20	QPSK	50	50	21.10	20.81	20.97	20.76	21.09
20	QPSK	100	0	21.24	21.06	20.95	20.93	21.07
20	16QAM	1	0	21.31	21.03	21.20	21.03	21.12
20	16QAM	1	49	21.02	20.92	20.95	20.93	21.09
20	16QAM	1	99	20.90	20.93	21.00	21.05	20.94
20	16QAM	50	0	20.41	20.11	20.28	20.15	20.10
20	16QAM	50	24	20.14	20.09	20.10	20.34	20.42
20	16QAM	50	50	20.11	20.02	20.11	19.95	20.11
20	16QAM	100	0	19.99	20.12	20.46	20.36	20.21

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39725	40172.5	40620	41067.5	41515
				2503.5	2548.3	2593.0	2637.8	2682.5
15	QPSK	1	0	22.71	22.60	22.39	22.16	22.20
15	QPSK	1	37	22.06	22.10	22.17	21.93	21.84
15	QPSK	1	74	21.85	22.17	22.20	22.30	22.43
15	QPSK	36	0	20.89	21.00	21.12	20.98	21.26
15	QPSK	36	20	20.79	20.69	20.93	20.96	20.89
15	QPSK	36	39	20.77	20.88	20.88	20.85	21.05
15	QPSK	75	0	21.36	20.86	20.97	20.91	21.06
15	16QAM	1	0	21.24	21.06	20.79	20.68	20.94
15	16QAM	1	37	20.85	20.91	20.81	21.13	21.13
15	16QAM	1	74	20.95	20.95	20.75	20.77	21.15
15	16QAM	36	0	20.16	20.10	20.19	20.09	20.13
15	16QAM	36	20	19.94	19.97	20.40	20.32	20.17
15	16QAM	36	39	20.10	19.96	20.13	20.09	20.15
15	16QAM	75	0	20.15	20.21	20.18	20.37	20.46



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39700	40160	40620	41080	41540
				2501.0	2547.0	2593.0	2639.0	2685.0
10	QPSK	1	0	22.32	22.34	22.18	21.92	22.11
10	QPSK	1	25	22.43	22.37	22.32	22.52	22.68
10	QPSK	1	49	22.11	22.30	22.34	22.42	22.36
10	QPSK	25	0	21.04	20.98	21.05	21.03	20.76
10	QPSK	25	12	21.11	21.20	21.04	21.21	21.34
10	QPSK	25	25	20.82	20.83	21.17	21.18	21.28
10	QPSK	50	0	21.09	20.88	20.96	20.93	21.36
10	16QAM	1	0	21.19	21.02	21.18	21.01	21.07
10	16QAM	1	25	20.88	21.01	21.34	21.28	21.10
10	16QAM	1	49	21.15	20.97	20.92	20.71	20.96
10	16QAM	25	0	20.33	20.17	20.33	20.17	20.20
10	16QAM	25	12	20.35	20.30	20.21	20.01	20.14
10	16QAM	25	25	20.14	19.91	20.17	20.12	20.16
10	16QAM	50	0	20.29	20.16	20.29	20.24	20.05

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39675	40148	40620	41093	41565
				2498.5	2545.8	2593.0	2640.3	2687.5
5	QPSK	1	0	22.39	22.52	22.37	22.54	22.45
5	QPSK	1	12	22.67	22.48	22.49	22.05	21.89
5	QPSK	1	24	22.57	22.41	22.57	22.60	22.54
5	QPSK	12	0	20.99	20.80	20.95	20.85	21.16
5	QPSK	12	7	21.22	20.78	21.03	20.95	21.19
5	QPSK	12	13	20.96	20.97	21.34	21.13	21.25
5	QPSK	25	0	20.91	21.02	20.99	21.02	21.15
5	16QAM	1	0	21.16	20.90	20.94	21.15	21.07
5	16QAM	1	12	20.84	20.96	20.89	20.74	20.92
5	16QAM	1	24	20.75	20.86	20.92	20.99	20.91
5	16QAM	12	0	20.08	20.08	20.21	20.06	20.09
5	16QAM	12	7	19.96	19.94	20.15	20.32	20.14
5	16QAM	12	13	20.04	19.99	20.08	20.17	20.01



LTE Band 66

LTE Band 66						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132072	132322	132572
				1720	1745	1770
20	QPSK	1	0	22.27	22.34	22.53
20	QPSK	1	49	22.26	21.92	22.39
20	QPSK	1	99	22.42	22.23	22.15
20	QPSK	50	0	20.90	20.71	20.73
20	QPSK	50	24	21.12	20.78	20.76
20	QPSK	50	50	20.85	21.11	20.97
20	QPSK	100	0	21.15	21.03	20.91
20	16QAM	1	0	21.13	21.13	21.13
20	16QAM	1	49	20.81	20.75	21.40
20	16QAM	1	99	21.14	20.98	20.97
20	16QAM	50	0	20.22	20.12	20.25
20	16QAM	50	24	20.33	20.25	20.27
20	16QAM	50	50	20.38	20.16	20.35
20	16QAM	100	0	20.17	20.20	20.25

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132047	132322	132597
				1717.5	1745	1772.5
15	QPSK	1	0	22.68	22.44	22.04
15	QPSK	1	37	22.09	22.09	22.53
15	QPSK	1	74	22.03	21.84	21.77
15	QPSK	36	0	21.03	21.23	21.21
15	QPSK	36	20	21.08	21.04	21.08
15	QPSK	36	39	21.32	20.95	21.13
15	QPSK	75	0	21.15	21.26	21.38
15	16QAM	1	0	20.94	20.92	20.91
15	16QAM	1	37	21.29	20.93	20.88
15	16QAM	1	74	21.08	21.08	20.79
15	16QAM	36	0	20.01	20.33	20.17
15	16QAM	36	20	20.38	20.29	19.89
15	16QAM	36	39	20.08	20.19	20.31
15	16QAM	75	0	20.20	20.26	19.91



BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132022	132322	132622
				1715	1745	1775
10	QPSK	1	0	22.37	22.23	22.21
10	QPSK	1	25	22.67	22.35	22.55
10	QPSK	1	49	22.02	22.30	22.04
10	QPSK	25	0	21.04	20.80	21.25
10	QPSK	25	12	21.22	20.75	21.11
10	QPSK	25	25	20.80	20.99	21.03
10	QPSK	50	0	20.96	20.94	20.86
10	16QAM	1	0	21.18	21.10	21.30
10	16QAM	1	25	21.09	20.87	21.30
10	16QAM	1	49	21.11	21.07	20.96
10	16QAM	25	0	20.08	20.24	20.27
10	16QAM	25	12	19.97	20.21	20.11
10	16QAM	25	25	20.54	20.02	20.17
10	16QAM	50	0	20.19	20.19	20.36

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131997	132322	132647
				1712.5	1745	1777.5
5	QPSK	1	0	22.44	22.56	22.10
5	QPSK	1	12	22.15	22.43	22.45
5	QPSK	1	24	22.31	22.09	21.89
5	QPSK	12	0	20.92	21.01	21.04
5	QPSK	12	7	21.06	21.07	21.01
5	QPSK	12	13	21.38	21.20	20.79
5	QPSK	25	0	21.04	21.26	20.89
5	16QAM	1	0	21.05	21.23	21.16
5	16QAM	1	12	20.86	20.89	21.04
5	16QAM	1	24	21.09	21.14	20.97
5	16QAM	12	0	20.09	20.34	20.07
5	16QAM	12	7	20.27	20.24	20.22
5	16QAM	12	13	20.19	20.30	20.15
5	16QAM	25	0	20.27	20.46	20.07

BW	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)
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(MHz)				131987	132322	132657
				1711.5	1745	1778.5
3	QPSK	1	0	22.38	22.35	22.15
3	QPSK	1	8	22.34	22.62	22.32
3	QPSK	1	14	22.18	22.12	21.95
3	QPSK	8	0	20.70	20.98	21.22
3	QPSK	8	4	21.08	21.07	20.76
3	QPSK	8	7	21.03	21.14	20.82
3	QPSK	15	0	20.86	21.05	21.16
3	16QAM	1	0	21.35	21.04	21.07
3	16QAM	1	8	21.11	21.00	20.69
3	16QAM	1	14	21.11	21.18	20.91
3	16QAM	8	0	20.27	20.23	20.24
3	16QAM	8	4	20.31	20.42	20.23
3	16QAM	8	7	19.95	20.46	19.86
3	16QAM	15	0	20.19	19.90	20.04

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131979	132322	132665
				1710.7	1745	1779.3
1.4	QPSK	1	0	22.19	22.28	22.59
1.4	QPSK	1	3	22.30	22.46	22.39
1.4	QPSK	1	5	22.34	22.11	22.11
1.4	QPSK	3	0	20.94	21.02	21.16
1.4	QPSK	3	1	21.12	21.04	21.03
1.4	QPSK	3	3	20.90	21.13	21.19
1.4	QPSK	6	0	20.82	21.00	21.06
1.4	16QAM	1	0	21.27	20.90	20.92
1.4	16QAM	1	3	20.84	21.05	20.92
1.4	16QAM	1	5	21.10	20.99	21.17
1.4	16QAM	3	0	19.97	20.14	19.91
1.4	16QAM	3	1	20.33	20.17	20.23
1.4	16QAM	3	3	20.18	20.03	20.22
1.4	16QAM	6	0	20.08	20.09	20.22

11. EUT and Test Setup Photo

11.1 EUT Photo

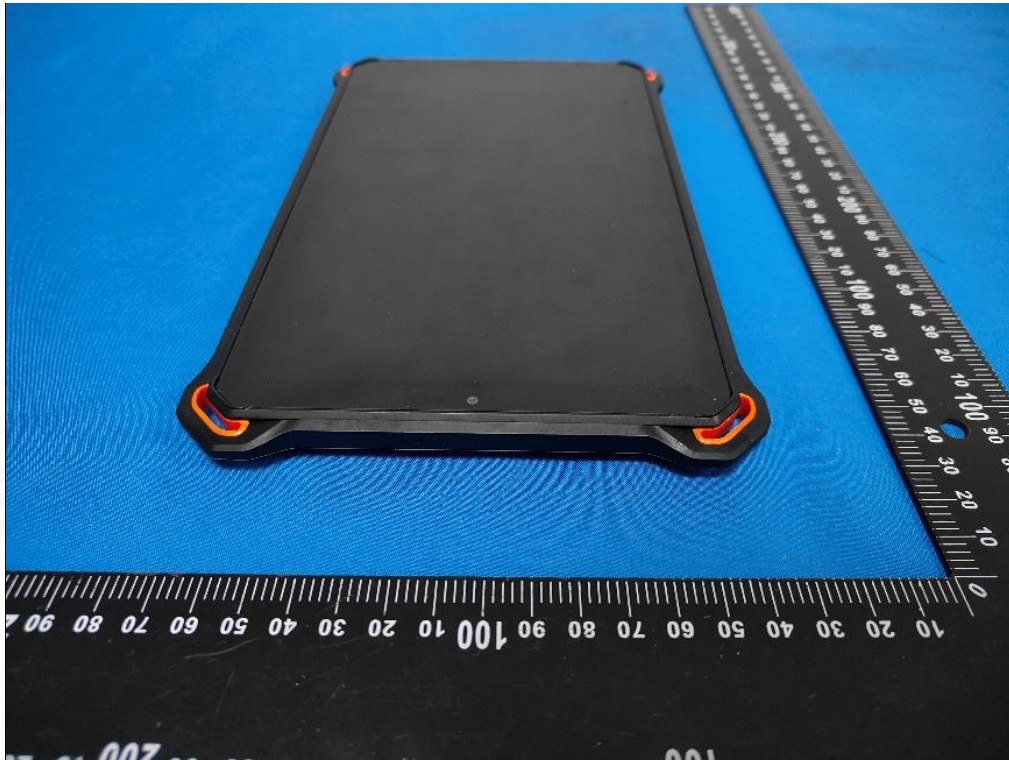
Front side



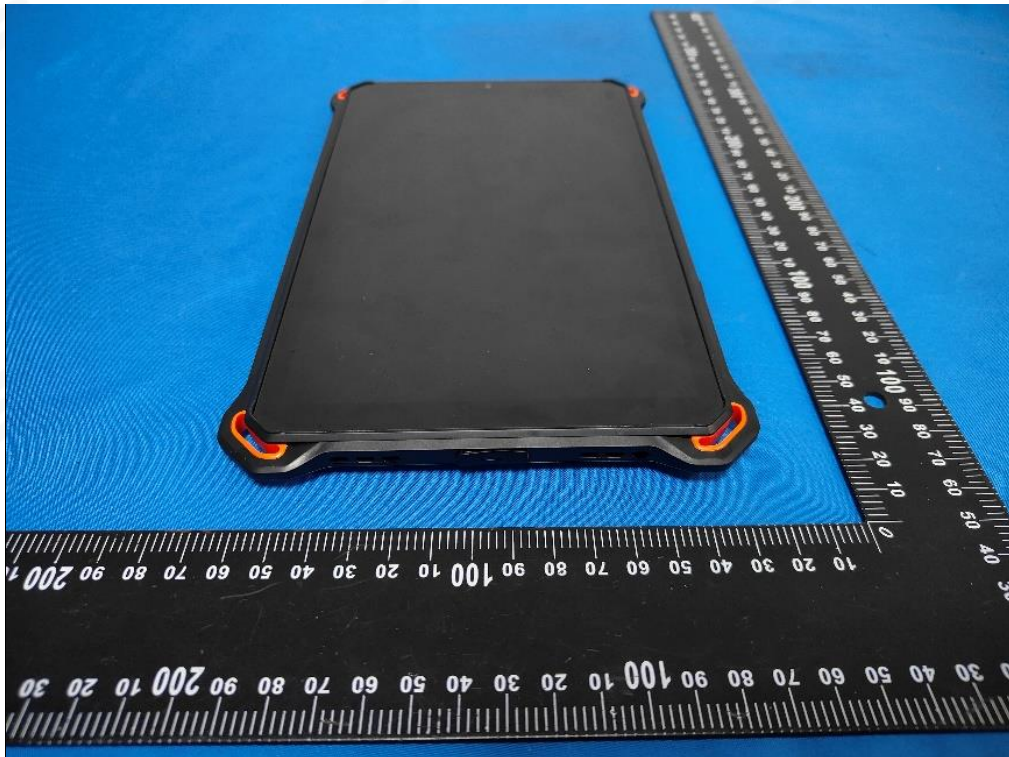
Back side



Top side



Bottom side



Left side



Right side



11.2 Setup Photo

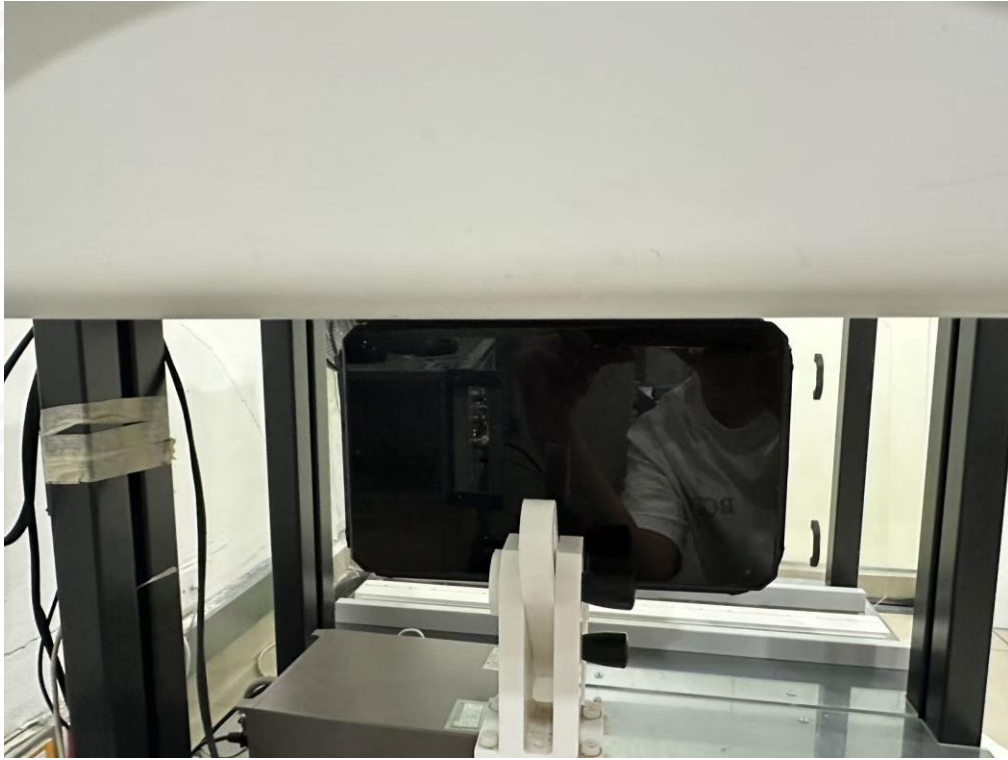
Body Back side(separation distance is 0mm)



Body Left side(separation distance is 0mm)



Body Right side(separation distance is 0mm)

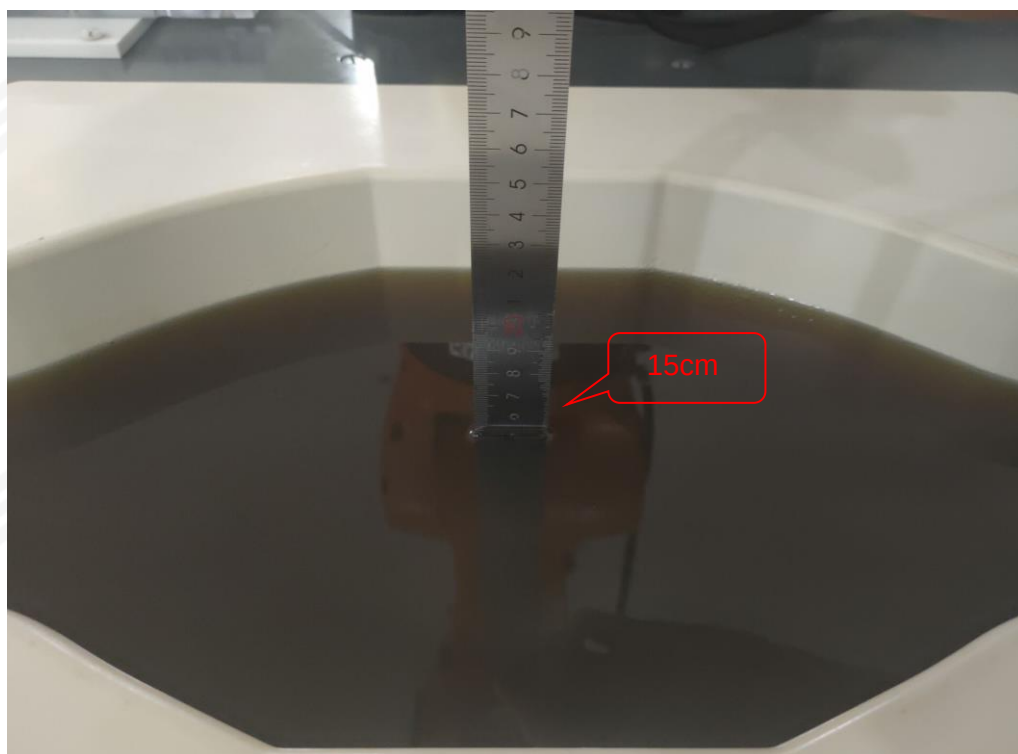


Body Top side(separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scale SAR (W/Kg)	Meas.No.
GSM850	GPRS Data-3 Slot	Back Side	848.8	0.234	-2.25	30.00	29.93	0.238	1
		Left Side	848.8	0.165	-4.15	30.00	29.93	0.168	/
		Top Side	848.8	0.136	0.06	30.00	29.93	0.138	/
GSM1900	GPRS Data-4 Slot	Back Side	1880.0	0.903	-3.74	26.00	25.89	0.926	2
		Back Side	1850.2	0.828	2.06	26.00	25.52	0.925	/
		Back Side	1909.8	0.785	-4.89	26.00	25.33	0.916	/
		Left Side	1880.0	0.768	-2.65	26.00	25.89	0.788	/
		Top Side	1880.0	0.732	-2.11	26.00	25.89	0.751	/
WCDMA Band II	RMC	Back Side	1880	0.905	-1.03	24.00	23.57	0.999	3
		Back Side	1852.4	0.890	3.74	24.00	23.55	0.987	/
		Back Side	1907.6	0.895	2.68	24.00	23.57	0.988	/
		Left Side	1880	0.713	-0.11	24.00	23.57	0.787	/
		Top Side	1880	0.689	-4.78	24.00	23.57	0.761	/
WCDMA Band V	RMC	Back Side	846.6	0.230	3.65	24.00	23.72	0.245	4
		Left Side	846.6	0.174	0.02	24.00	23.72	0.186	/
		Top Side	846.6	0.141	-4.21	24.00	23.72	0.150	/
WCDMA Band IV	RMC	Back Side	1740	0.730	1.19	24.00	23.68	0.786	5
		Left Side	1740	0.675	1.03	24.00	23.68	0.727	/
		Top Side	1740	0.666	-2.55	24.00	23.68	0.717	/



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 7	20M	QPSK	1	99	Back Side	2535	0.570	-1.96	23.00	22.96	0.575	6
			50	24	Back Side	2535	0.485	-4.75	21.50	21.33	0.504	/
			1	99	Left Side	2535	0.526	3.64	23.00	22.96	0.531	/
			50	24	Left Side	2535	0.421	0.02	21.50	21.33	0.438	/
			1	99	Top Side	2535	0.506	-4.25	23.00	22.96	0.511	/
			50	24	Top Side	2535	0.406	-3.99	21.50	21.33	0.422	/
LTE Band 12	10M	QPSK	1	49	Back Side	704	0.703	-4.17	23.00	22.75	0.745	7
			25	0	Back Side	707.5	0.658	-1.02	21.50	21.25	0.697	/
			1	49	Left Side	704	0.669	-1.63	23.00	22.75	0.709	/
			25	0	Left Side	707.5	0.614	3.02	21.50	21.25	0.650	/
			1	49	Top Side	704	0.652	4.55	23.00	22.75	0.691	/
			25	0	Top Side	707.5	0.602	-2.56	21.50	21.25	0.638	/
LTE Band 18(815-824)	5M	QPSK	1	0	Back Side	819.5	0.301	-1.85	22.50	22.43	0.306	/
			12	13	Back Side	817.5	0.252	-4.15	22.00	21.58	0.278	/
			1	0	Left Side	819.5	0.241	-0.08	22.50	22.43	0.245	/
			12	13	Left Side	817.5	0.203	-0.03	22.00	21.58	0.224	/
			1	0	Top Side	819.5	0.226	0.15	22.50	22.43	0.230	/
			12	13	Top Side	817.5	0.182	3.64	22.00	21.58	0.200	/
LTE Band 18(824-830)	5M	QPSK	1	24	Back Side	827.5	0.318	-2.57	23.00	22.51	0.356	8
			12	13	Back Side	827.5	0.269	-4.71	21.50	21.34	0.279	/
			1	24	Left Side	827.5	0.274	-2.89	23.00	22.51	0.307	/
			12	13	Left Side	827.5	0.215	2.64	21.50	21.34	0.223	/
			1	24	Top Side	827.5	0.244	-2.95	23.00	22.51	0.273	/
			12	13	Top Side	827.5	0.194	-4.12	21.50	21.34	0.201	/
LTE Band 19	15M	QPSK	1	0	Back Side	837.5	0.354	-0.12	22.50	22.32	0.369	9
			36	39	Back Side	837.5	0.296	2.68	21.50	21.45	0.299	/
			1	0	Left Side	837.5	0.302	1.47	22.50	22.32	0.315	/
			36	39	Left Side	837.5	0.241	3.38	21.50	21.45	0.244	/
			1	0	Top Side	837.5	0.274	4.17	22.50	22.32	0.286	/
			36	39	Top Side	837.5	0.210	2.69	21.50	21.45	0.212	/
LTE Band 25	20M	QPSK	1	49	Back Side	1882.5	0.488	-0.54	23.00	22.58	0.538	10
			50	0	Back Side	1905	0.432	-1.85	21.50	21.25	0.458	/
			1	49	Left Side	1882.5	0.471	0.09	23.00	22.58	0.519	/
			50	0	Left Side	1905	0.369	-4.36	21.50	21.25	0.391	/
			1	49	Top Side	1882.5	0.436	2.00	23.00	22.58	0.480	/
			50	0	Top Side	1905	0.333	-4.78	21.50	21.25	0.353	/



LTE Band 26(8 14-8 24)	10M	QPS K	1	25	Back Side	819	0.722	-3.22	22.50	22.29	0.758	/
			25	25	Back Side	819	0.678	-1.64	21.50	21.46	0.684	/
			1	25	Left Side	819	0.678	-1.78	22.50	22.29	0.712	/
			25	25	Left Side	819	0.636	0.05	21.50	21.46	0.642	/
			1	25	Top Side	819	0.648	-4.87	22.50	22.29	0.680	/
			25	25	Top Side	819	0.623	-2.48	21.50	21.46	0.629	/
LTE Band 26(8 24-8 49)	15M	QPS K	1	37	Back Side	841.5	0.790	3.26	23.00	22.60	0.866	11
			36	0	Back Side	841.5	0.714	3.02	21.50	21.43	0.726	/
			75	0	Back Side	841.5	0.674	-1.54	21.50	21.28	0.709	/
			1	37	Left Side	841.5	0.669	1.11	23.00	22.60	0.734	/
			36	0	Left Side	841.5	0.626	-2.48	21.50	21.43	0.636	/
			1	37	Top Side	841.5	0.652	1.05	23.00	22.60	0.715	/
			36	0	Top Side	841.5	0.615	1.78	21.50	21.43	0.625	/
LTE Band 41	20M	QPS K	1	99	Back Side	2549.5	0.755	3.48	23.00	22.63	0.822	12
			50	0	Back Side	2593.0	0.674	-3.52	21.50	21.30	0.706	/
			100	0	Back Side	2506.0	0.642	-2.22	21.50	21.24	0.682	/
			1	99	Left Side	2549.5	0.733	2.00	23.00	22.63	0.798	/
			50	0	Left Side	2593.0	0.648	-4.15	21.50	21.30	0.679	/
			1	99	Top Side	2549.5	0.725	3.33	23.00	22.63	0.789	/
			50	0	Top Side	2593.0	0.631	0.06	21.50	21.30	0.661	/
LTE Band 66	20M	QPS K	1	0	Back Side	1770	0.561	4.17	23.00	22.53	0.625	13
			50	24	Back Side	1720	0.456	-2.98	21.50	21.12	0.498	/
			1	0	Left Side	1770	0.512	1.19	23.00	22.53	0.571	/
			50	24	Left Side	1720	0.411	-1.56	21.50	21.12	0.449	/
			1	0	Top Side	1770	0.503	3.87	23.00	22.53	0.560	/
			50	24	Top Side	1720	0.406	2.96	21.50	21.12	0.443	/

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
2.4GHz	802.11b	Back Side	2437	0.053	0.09	15.00	14.46	0.060	14
WLAN		Right Side	2437	0.045	-4.75	15.00	14.46	0.051	/
5.2GHz	802.11	Back Side	5200	0.215	-2.22	15.00	14.72	0.229	15
WLAN	a-HT20	Right Side	5200	0.206	4.36	15.00	14.72	0.220	/
5.8GHz	802.11	Back Side	5745	0.369	-3.99	15.00	14.42	0.422	16
WLAN	a-HT20	Right Side	5745	0.339	-0.01	15.00	14.42	0.387	/

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
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to



DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.058W/Kg** for Body)

4. 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.

**12.3 Repeated SAR**

Band	Mod.	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
GSM1900	GPRS Data-4 Slot	Back Side	1880	0.896	-3.65	26.00	25.89	0.919	-

Band	Mod.	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	Back Side	1880	0.899	0.08	24.00	23.57	0.993	-

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 26(824-849)	15M	QPSK	1	37	Back Side	841.5	0.777	-4.85	23.00	22.60	0.852	-

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 41	20M	QPSK	1	99	Back Side	2549.5	0.741	-1.18	23.00	22.63	0.807	-

**12.4 Repeated SAR measurement**

Band	Mod.	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
GSM1900	GPRS Data-4 Slot	Back Side	1880	0.926	0.919	1.008	-	-	-

Band	Mod.	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
WCDMA Band II	RMC	Back Side	1880	0.999	0.993	1.006	-	-	-

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 26(824-849)	15M	QPSK	1	37	Back Side	841.5	0.866	0.852	1.016	-	-	-

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 41	20M	QPSK	1	99	Back Side	2549.5	0.822	0.807	1.019	-	-	-

Note:

1. Per KDB 447498 D04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per 447498 D04, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, 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 $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.5 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 head and 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	Body	4.00	2.512	5	2.480	0.105

NFC operates at extremely low power, and its estimated value is negligible.



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Body	GSM	0.926	0.986
		2.4G WLAN	0.060	
GSM + Bluetooth	Body	GSM	0.926	1.031
		Bluetooth	0.105	
GSM + 5G WLAN	Body	GSM	0.926	1.348
		5G WLAN	0.422	
WCDMA + 2.4G WLAN	Body	WCDMA	0.999	1.059
		2.4G WLAN	0.060	
WCDMA + Bluetooth	Body	WCDMA	0.999	1.104
		Bluetooth	0.105	
WCDMA + 5G WLAN	Body	WCDMA	0.999	1.421
		5G WLAN	0.422	
LTE + 2.4G WLAN	Body	LTE	0.866	0.926
		2.4G WLAN	0.060	
LTE + Bluetooth	Body	LTE	0.866	0.971
		Bluetooth	0.105	
LTE + 5G WLAN	Body	LTE	0.866	1.288
		5G WLAN	0.422	

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
Phantom1	MVG	SAM	SN 32/14 SAM115	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
Laptop holder	MVG	N/A	SN 32/14 LSH29	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=15mm, dy=15mm

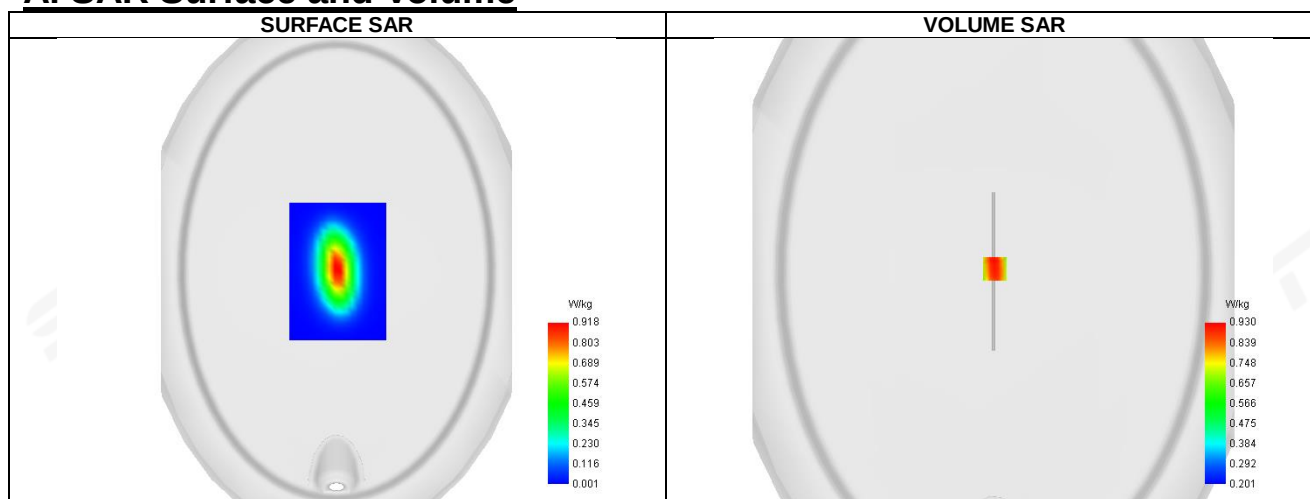
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-06-12

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	41.69
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1

A. SAR Surface and Volume



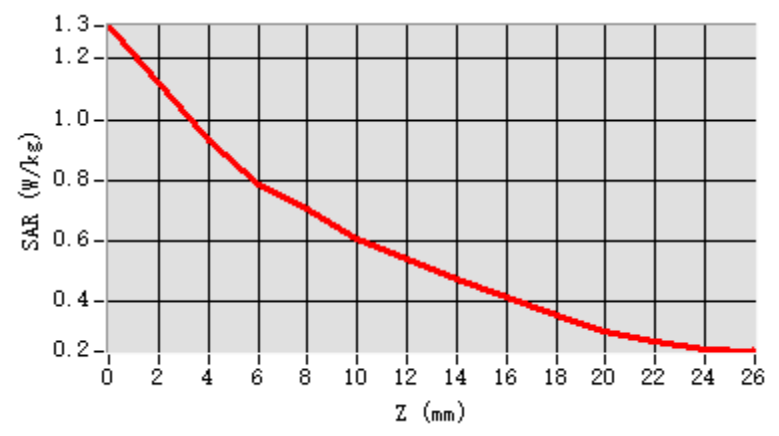
Maximum location: X=1.00, Y=3.00 ; SAR Peak: 1.22 W/kg

B. SAR 1g & 10g

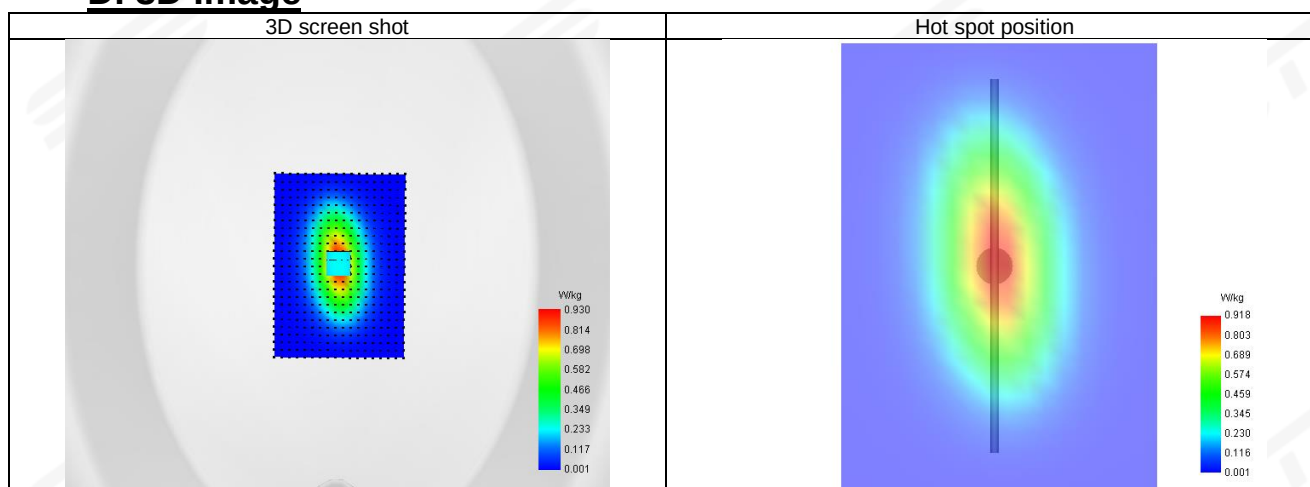
SAR 10g (W/Kg)	0.504
SAR 1g (W/Kg)	0.847
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.638544

C. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.304	0.931	0.785	0.703	0.607	0.545	0.477	0.415	0.356	0.306	0.268	0.245



D. 3D Image



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

Type: Phone measurement (Complete)

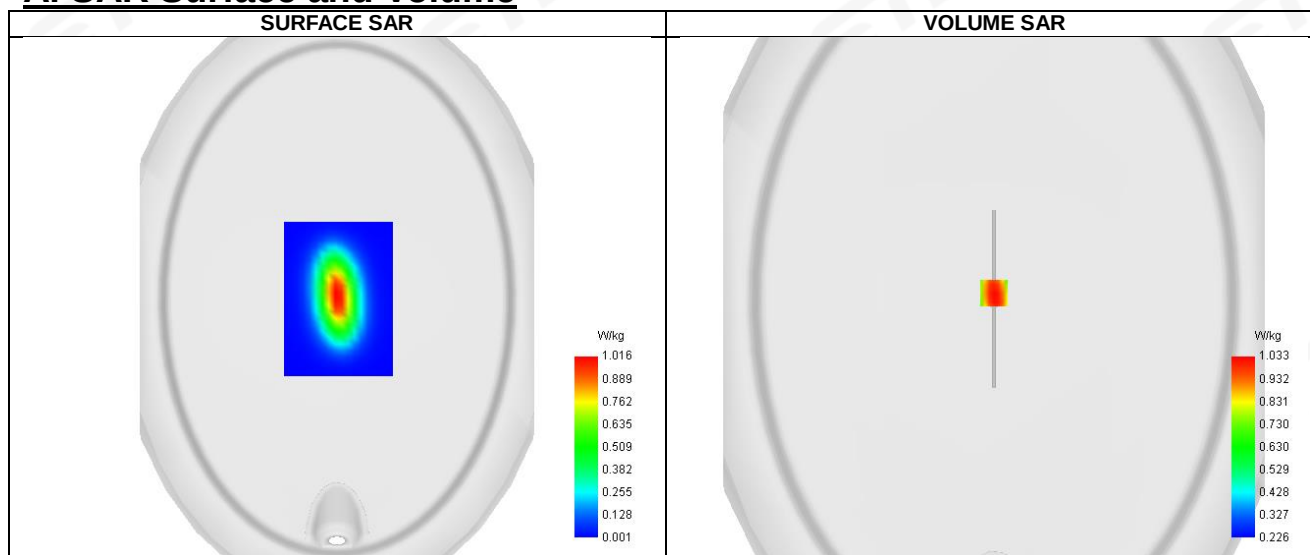
Area scan resolution: dx=15mm, dy=15mm

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

Date of measurement: 2026-06-12

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.56
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1

A. SAR Surface and Volume

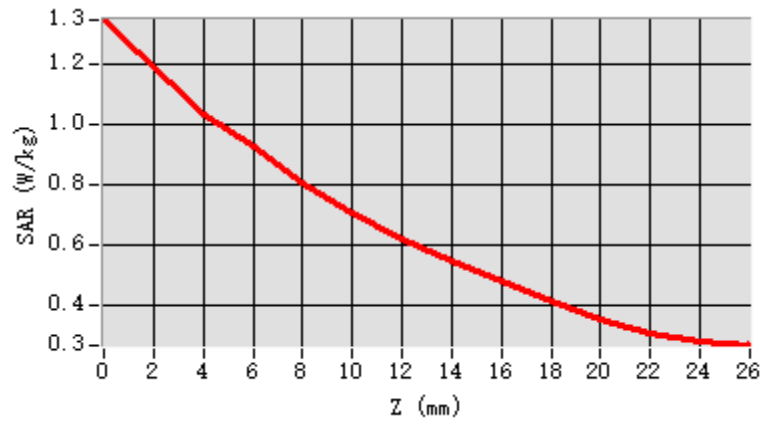
Maximum location: X=0.00, Y=5.00 ; SAR Peak: 1.37 W/kg

B. SAR 1g & 10g

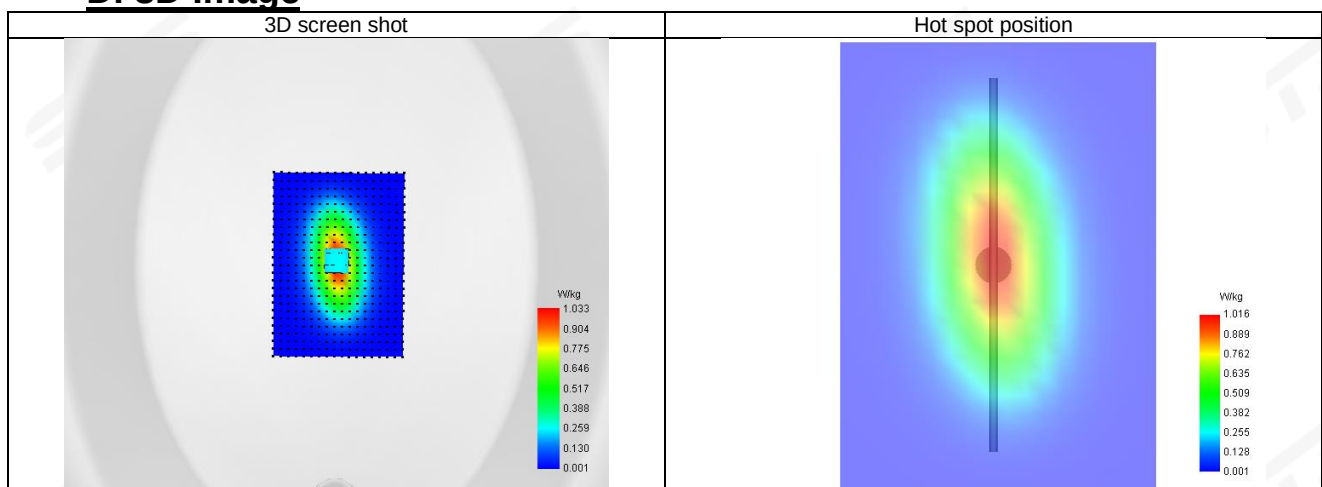
SAR 10g (W/Kg)	0.647
SAR 1g (W/Kg)	0.951
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.524856

C. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.346	1.035	0.925	0.806	0.704	0.617	0.547	0.478	0.405	0.351	0.305	0.276



D. 3D Image



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

Type: Phone measurement (Complete)

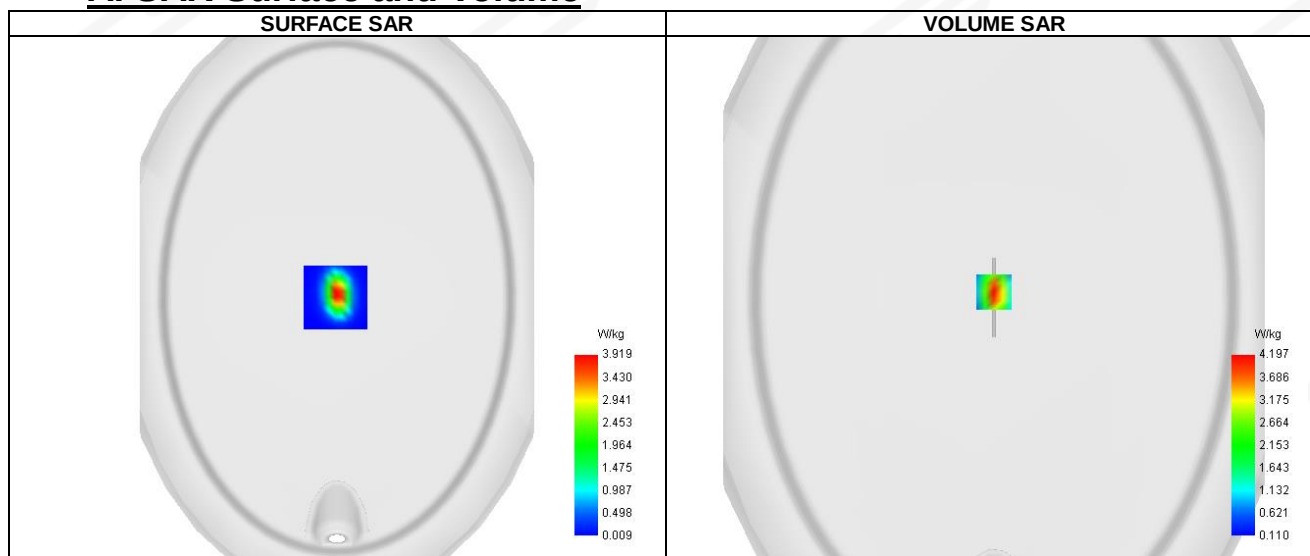
Area scan resolution: dx=15mm, dy=15mm

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

Date of measurement: 2026-06-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.71
Conductivity (S/m)	1.38
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1

A. SAR Surface and Volume

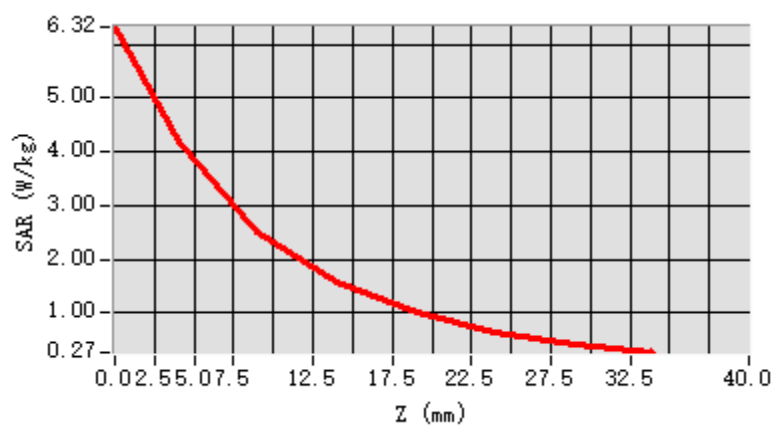
Maximum location: X=0.00, Y=5.00 ; SAR Peak: 6.35 W/kg

B. SAR 1g & 10g

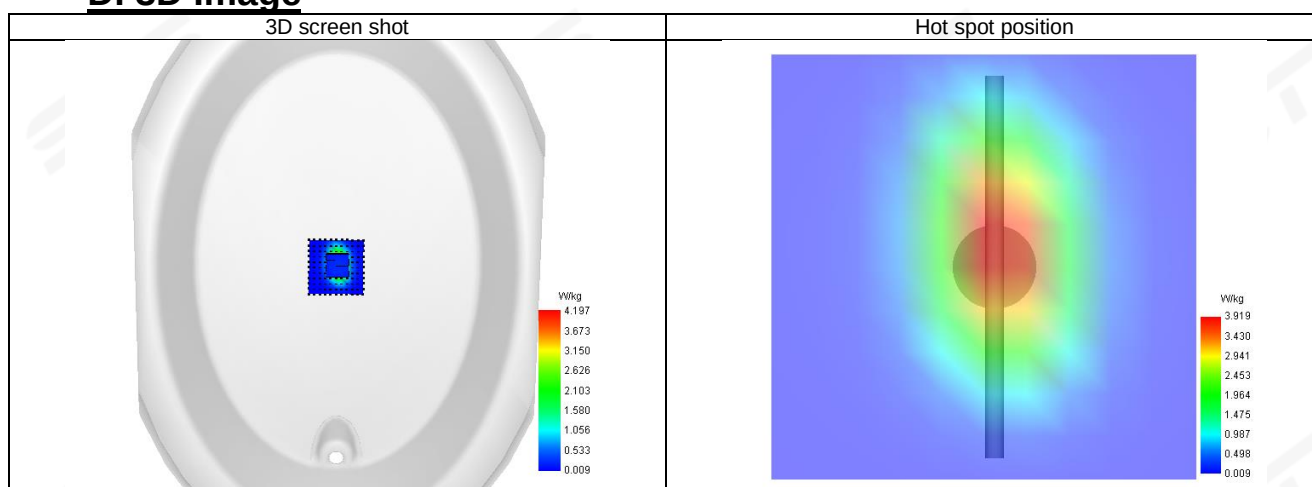
SAR 10g (W/Kg)	2.103
SAR 1g (W/Kg)	3.777
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.784386

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.325	4.195	2.507	1.567	1.000	0.637	0.415



D. 3D Image



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

Type: Phone measurement (Complete)

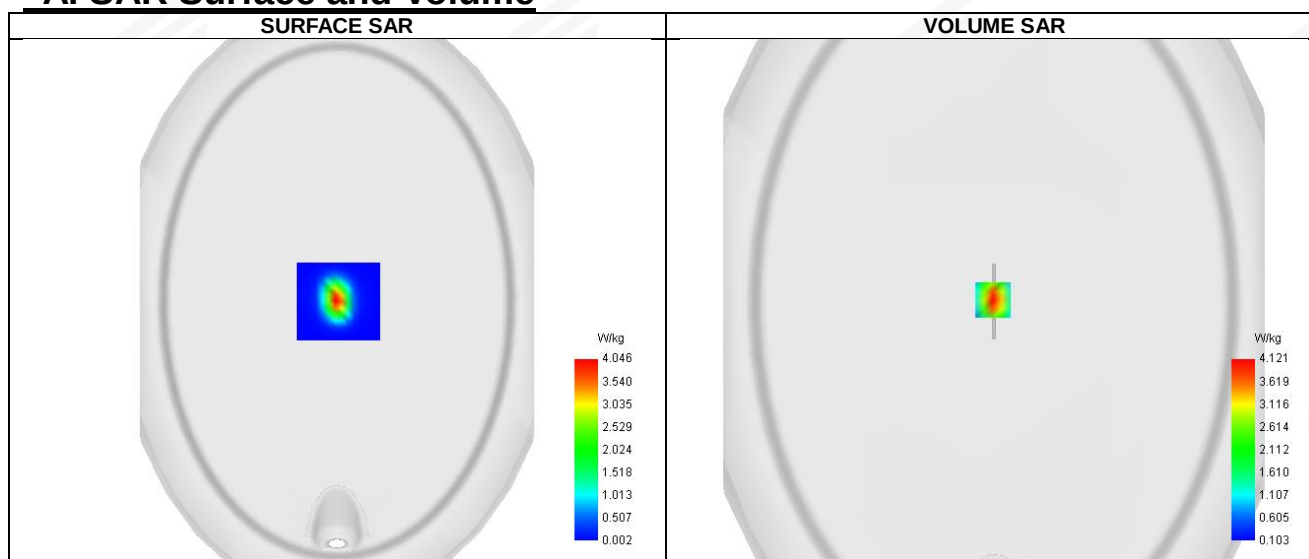
Area scan resolution: dx=15mm, dy=15mm

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

Date of measurement: 2026-06-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.09
Conductivity (S/m)	1.38
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1

A. SAR Surface and Volume

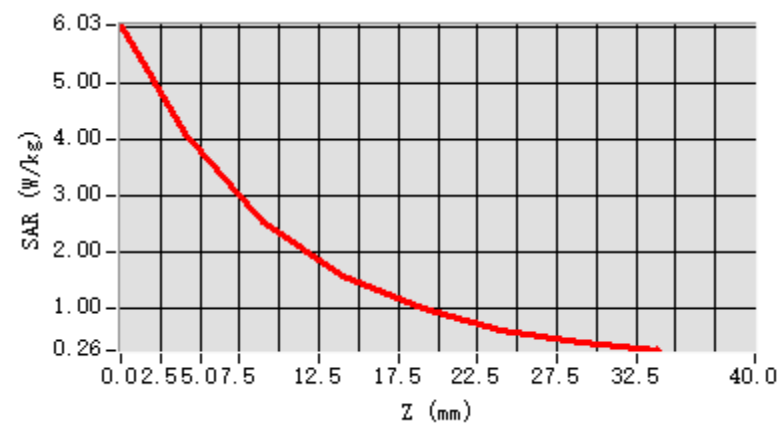
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 6.05 W/kg

B. SAR 1g & 10g

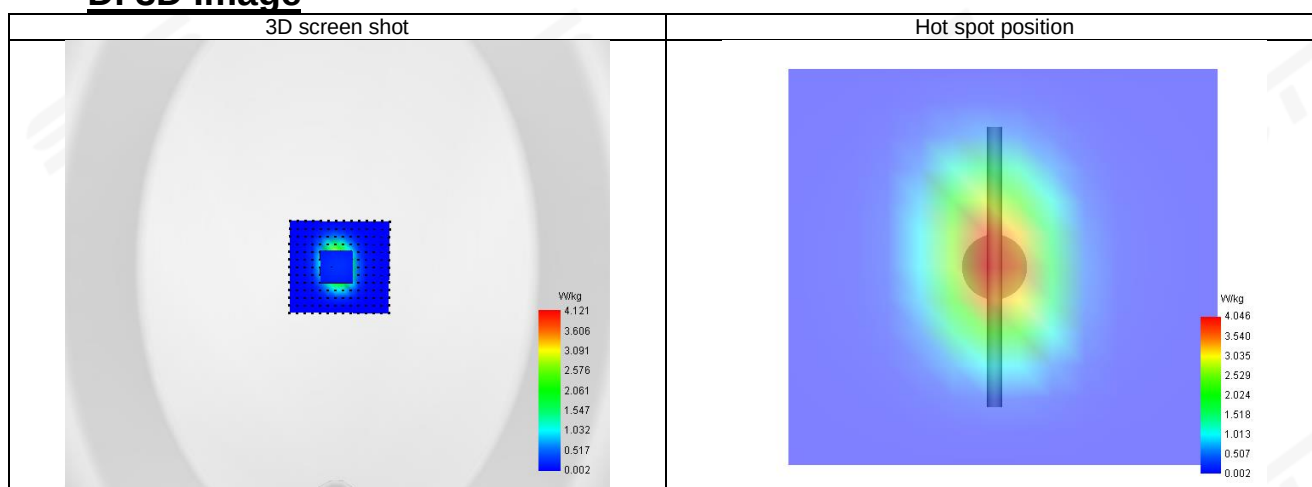
SAR 10g (W/Kg)	2.118
SAR 1g (W/Kg)	3.869
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.965254

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.034	4.123	2.545	1.577	1.012	0.636	0.397



D. 3D Image



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

Type: Phone measurement (Complete)

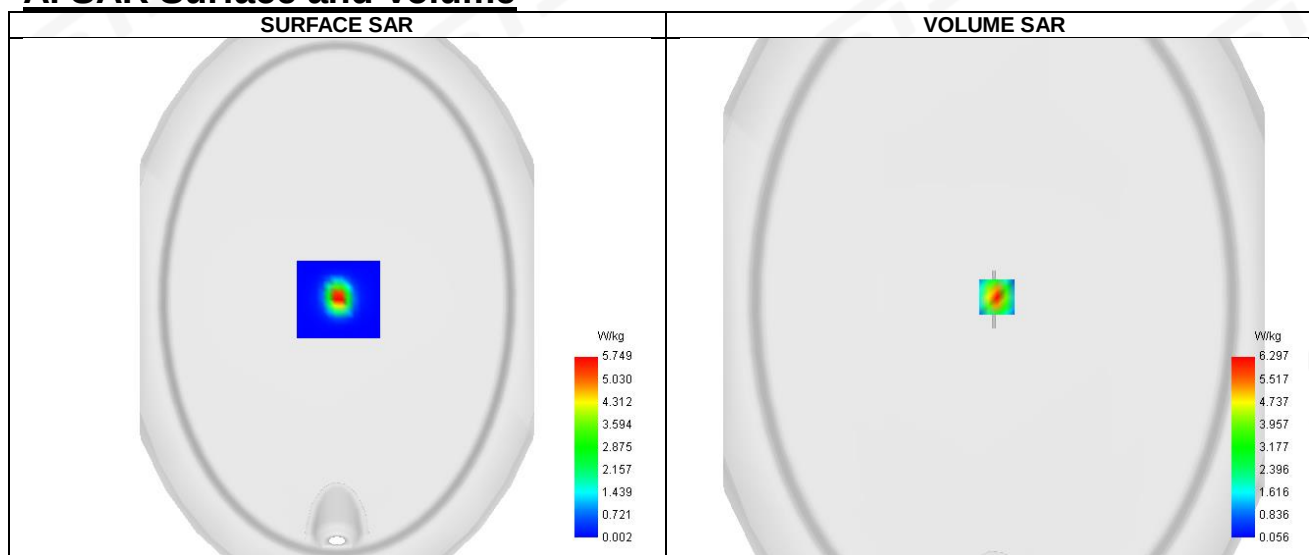
Area scan resolution: dx=12mm, dy=12mm

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

Date of measurement: 2026-06-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	40.32
Conductivity (S/m)	1.82
Probe	SN 08/21 EPG0352
ConvF	1.82
Crest factor:	1:1

A. SAR Surface and Volume

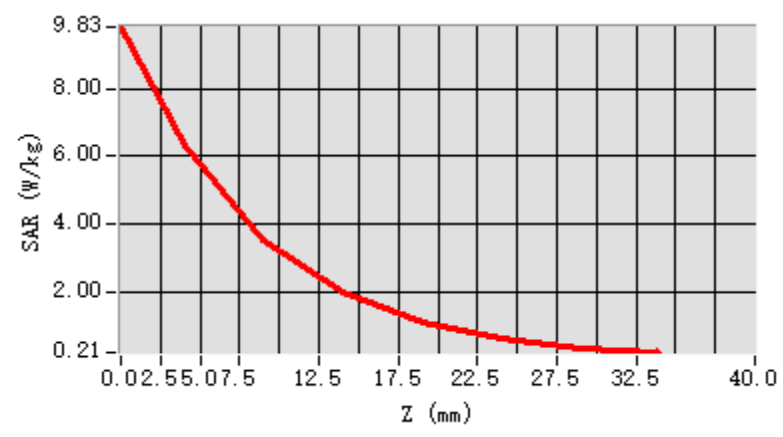
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 9.80 W/kg

B. SAR 1g & 10g

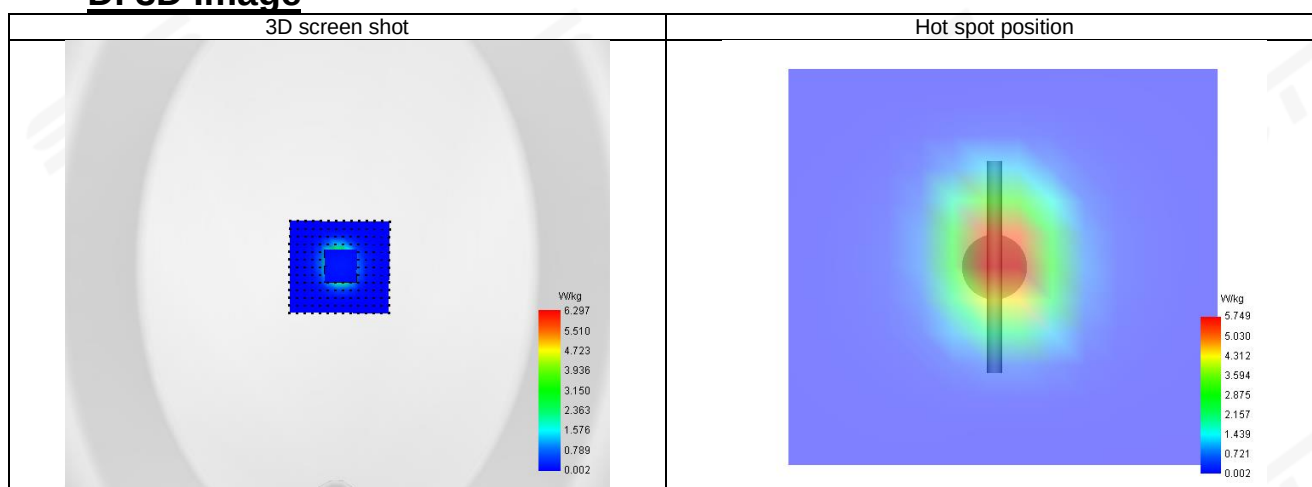
SAR 10g (W/Kg)	2.821
SAR 1g (W/Kg)	5.612
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.748515

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.828	6.299	3.515	1.969	1.118	0.624	0.355



D. 3D Image



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

Type: Phone measurement (Complete)

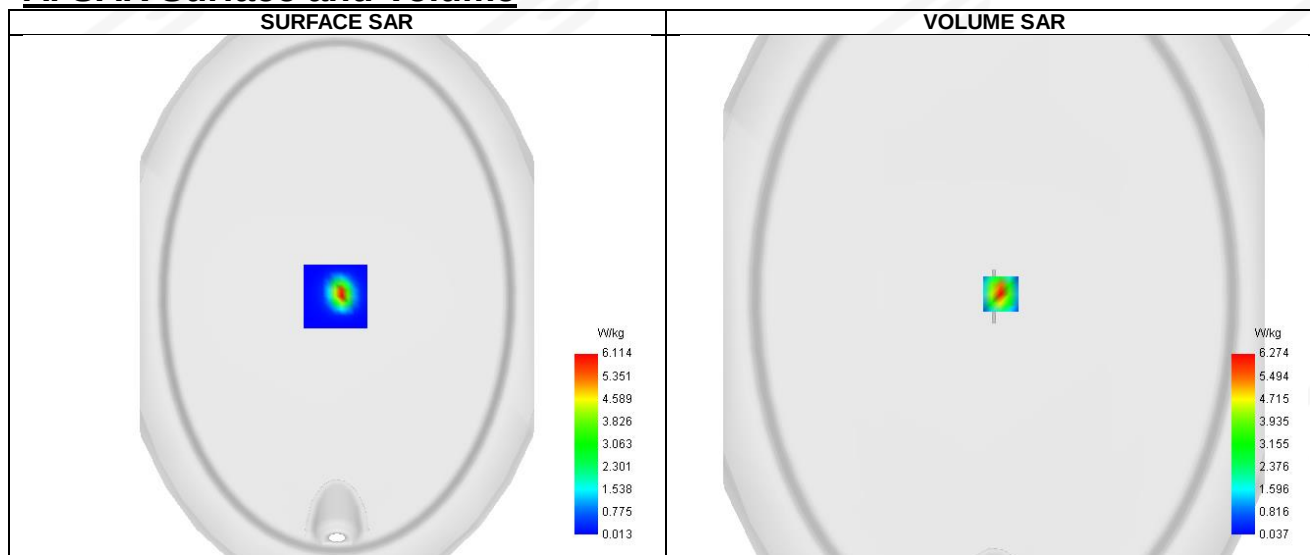
Area scan resolution: dx=12mm,dy=12mm

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

Date of measurement: 2026-06-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.80
Conductivity (S/m)	1.98
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1

A. SAR Surface and Volume

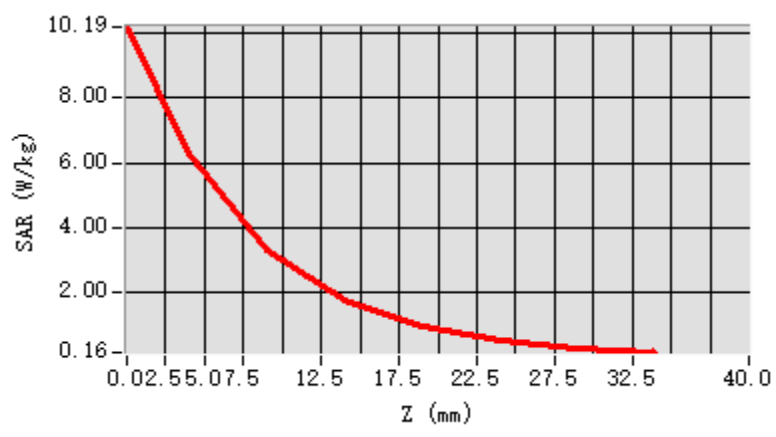
Maximum location: X=6.00, Y=2.00 ; SAR Peak: 10.15 W/kg

B. SAR 1g & 10g

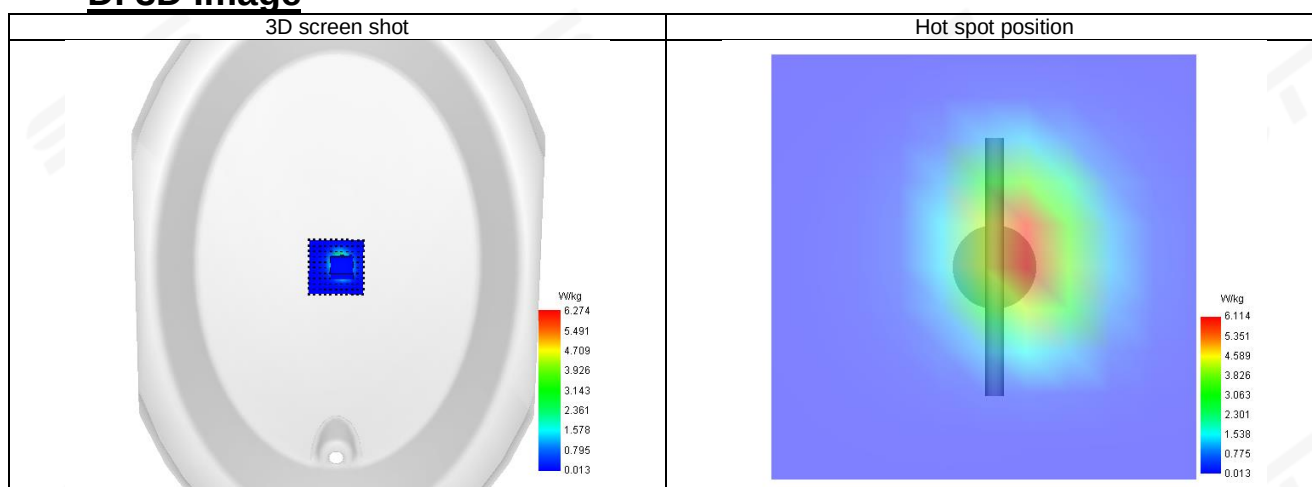
SAR 10g (W/Kg)	2.633
SAR 1g (W/Kg)	5.603
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	52.539842

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.183	6.275	3.293	1.794	0.965	0.514	0.275



D. 3D Image



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

Type: Dipole measurement (Complete)

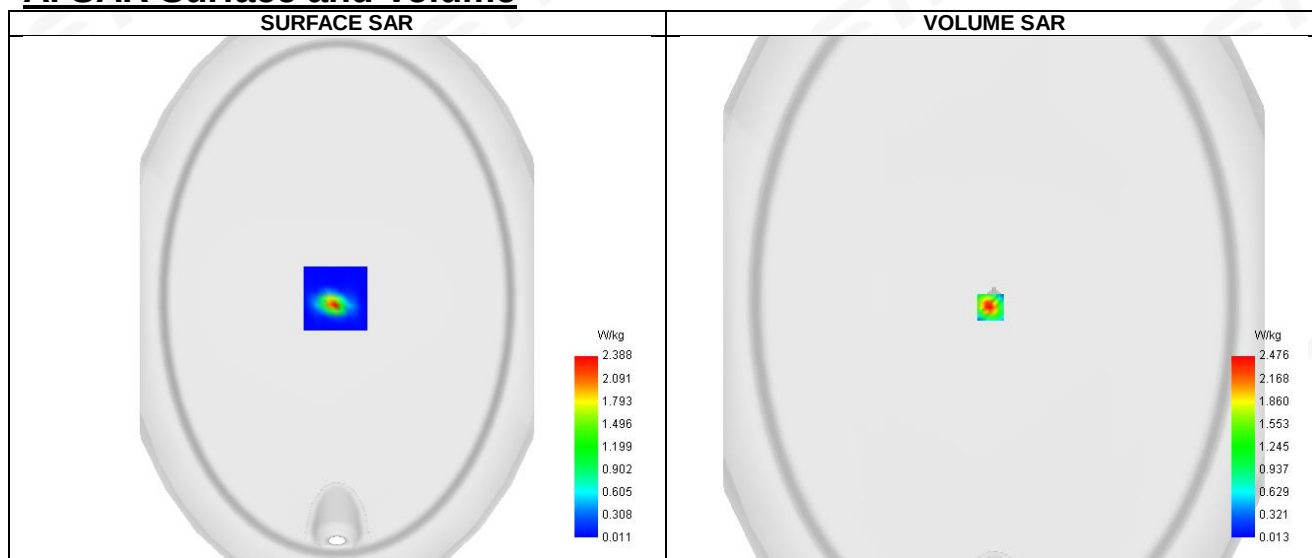
Area scan resolution: dx=10mm,dy=10mm

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

Date of measurement: 2026-06-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	35.47
Conductivity (S/m)	4.67
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1

A. SAR Surface and Volume

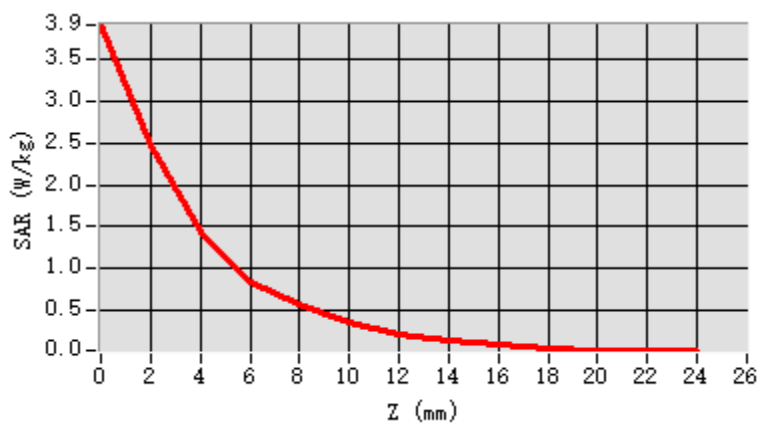
Maximum location: X=-3.00, Y=-8.00 ; SAR Peak: 4.11 W/kg

B. SAR 1g & 10g

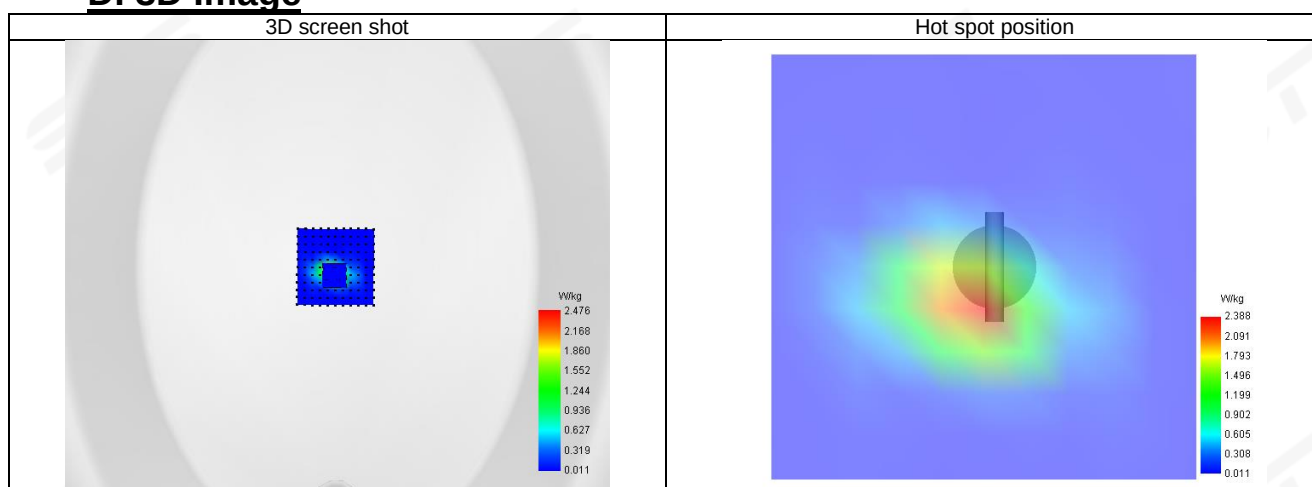
SAR 10g (W/Kg)	0.562
SAR 1g (W/Kg)	1.558
Horizontal validation criteria: minimum distance (mm)	8.845754
Vertical validation criteria: SAR ratio M2/M1 (%)	57.652854

C. 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)	3.912	2.474	1.435	0.827	0.563	0.345	0.214	0.136	0.086	0.053	0.034	0.018



D. 3D Image



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

Type: Dipole measurement (Complete)

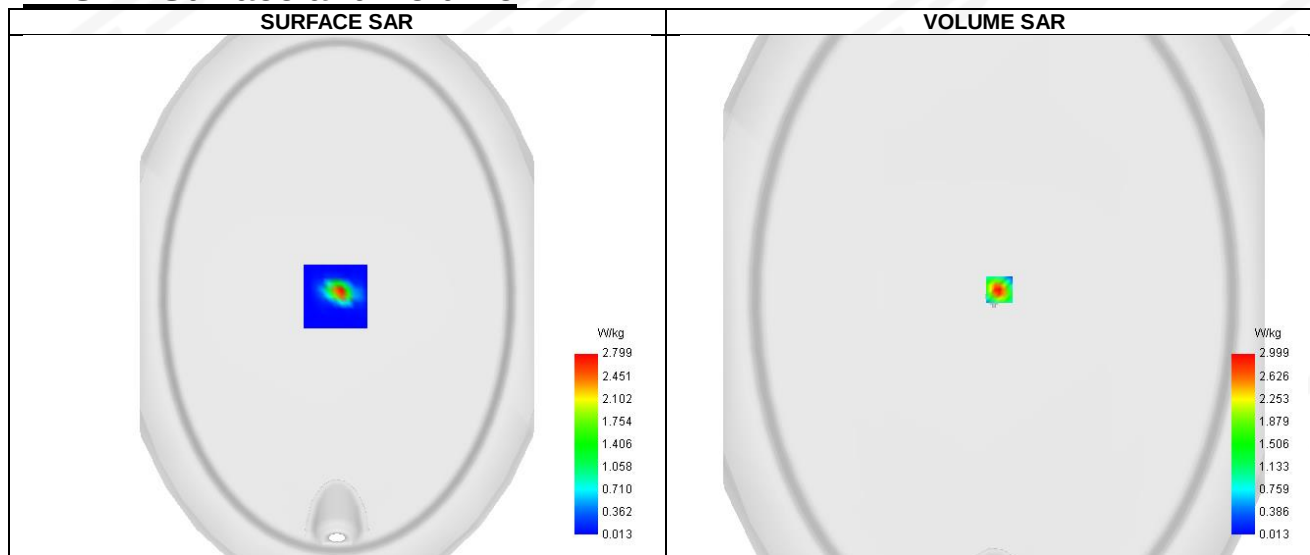
Area scan resolution: dx=10mm,dy=10mm

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

Date of measurement: 2026-06-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.49
Conductivity (S/m)	5.29
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1

A. SAR Surface and Volume

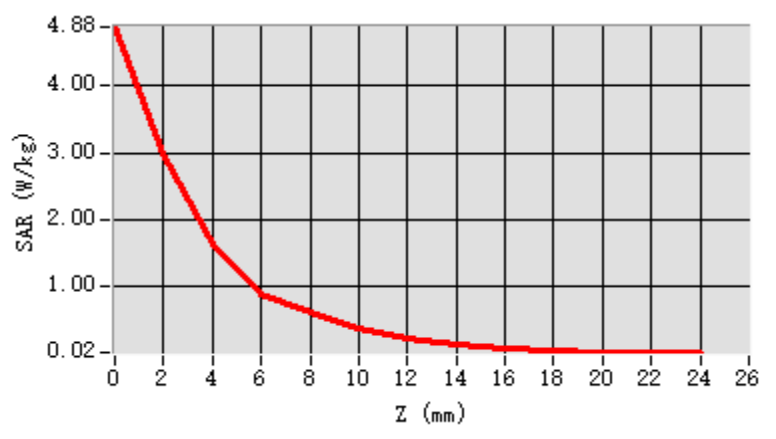
Maximum location: X=5.00, Y=6.00 ; SAR Peak: 5.33 W/kg

B. SAR 1g & 10g

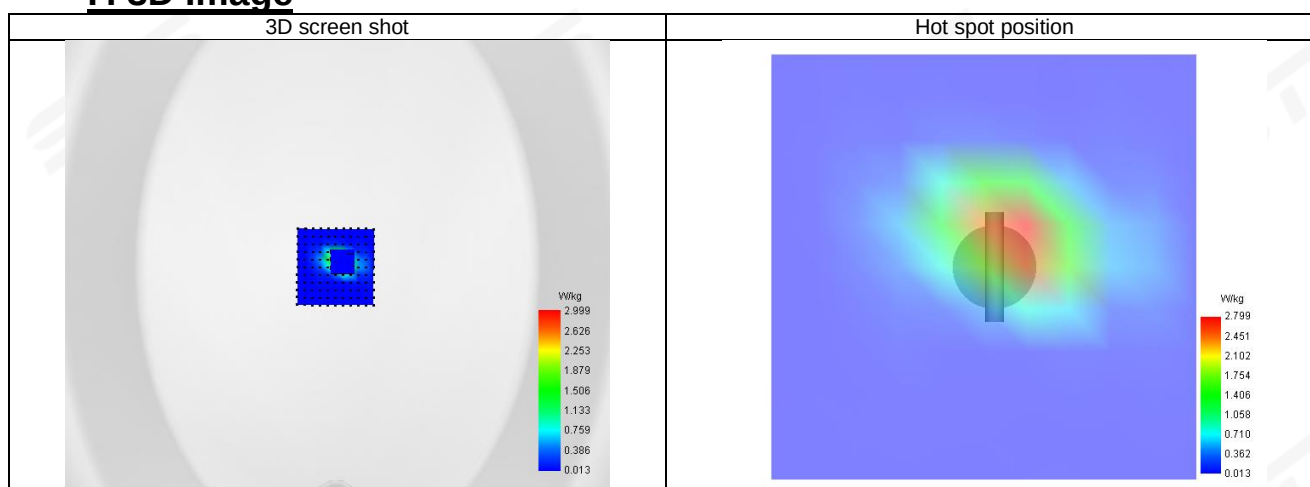
SAR 10g (W/Kg)	0.660
SAR 1g (W/Kg)	1.821
Horizontal validation criteria: minimum distance (mm)	8.754152
Vertical validation criteria: SAR ratio M2/M1 (%)	54.574186

C. 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)	4.885	2.996	1.644	0.885	0.606	0.365	0.215	0.127	0.079	0.047	0.029	0.018



F. 3D Image



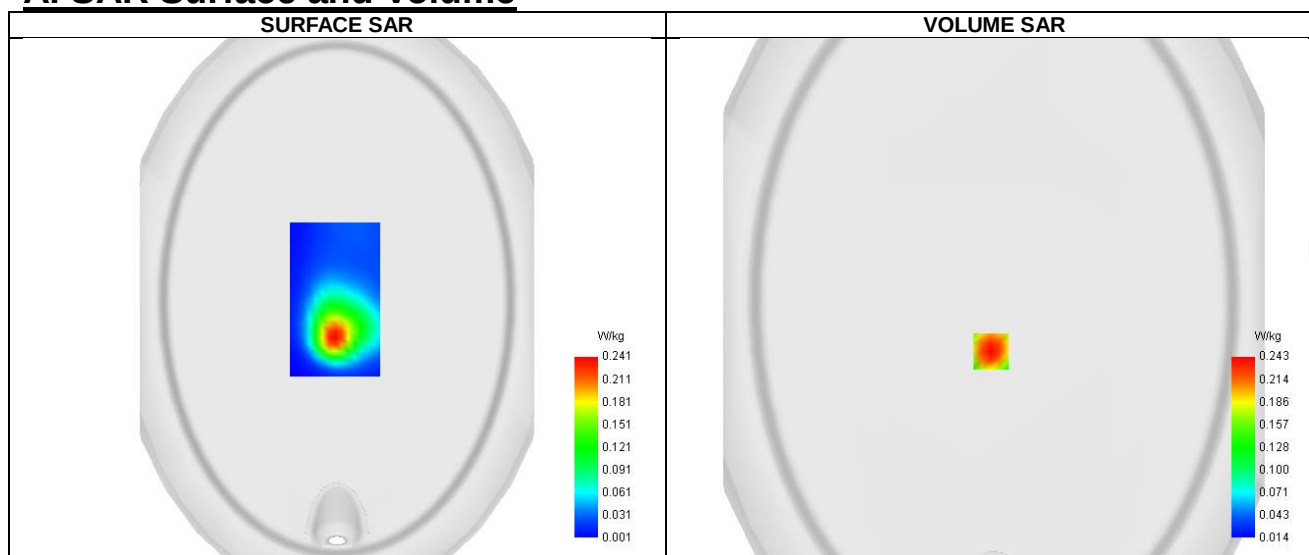


Appendix B. SAR Test Plots

Plot 1: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT

Test Date	2026-06-12
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.94
Conductivity (S/m)	0.90

A. SAR Surface and Volume

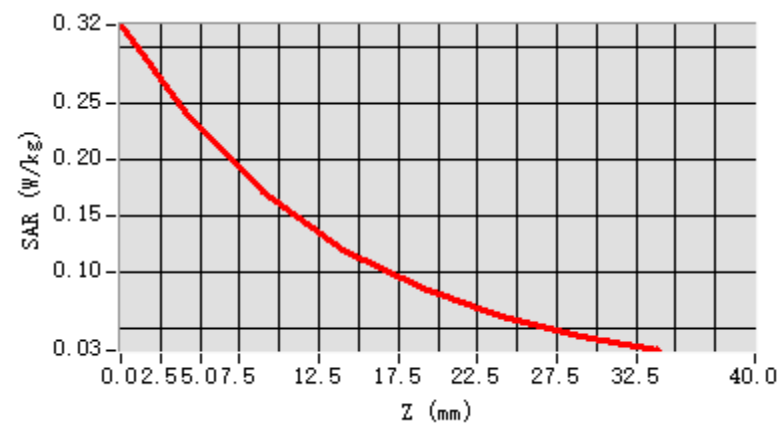


B. SAR 1g & 10g

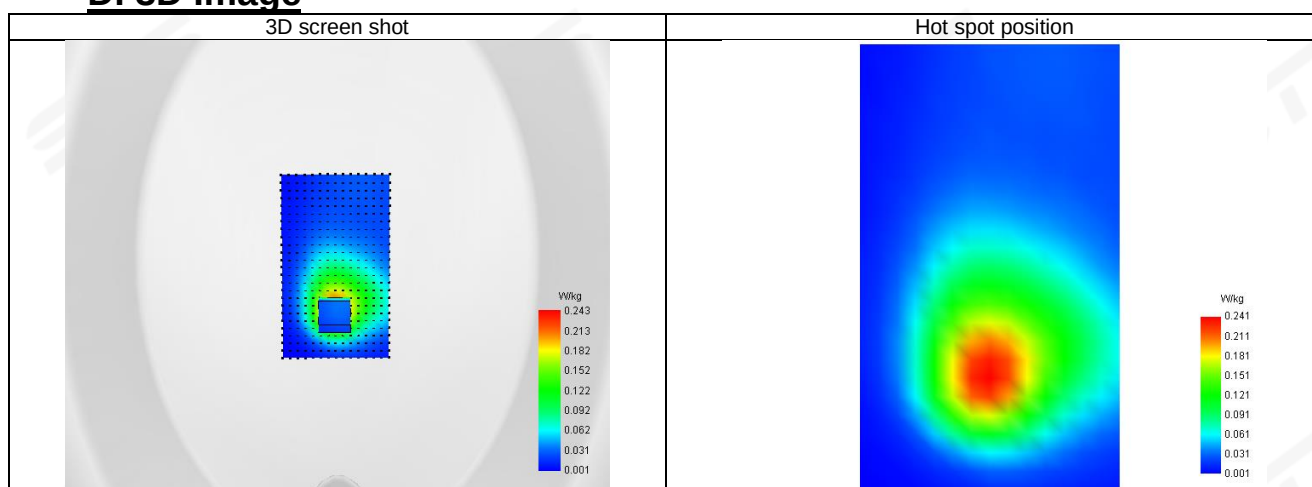
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.234
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.635255

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.320	0.243	0.172	0.121	0.086	0.061	0.043

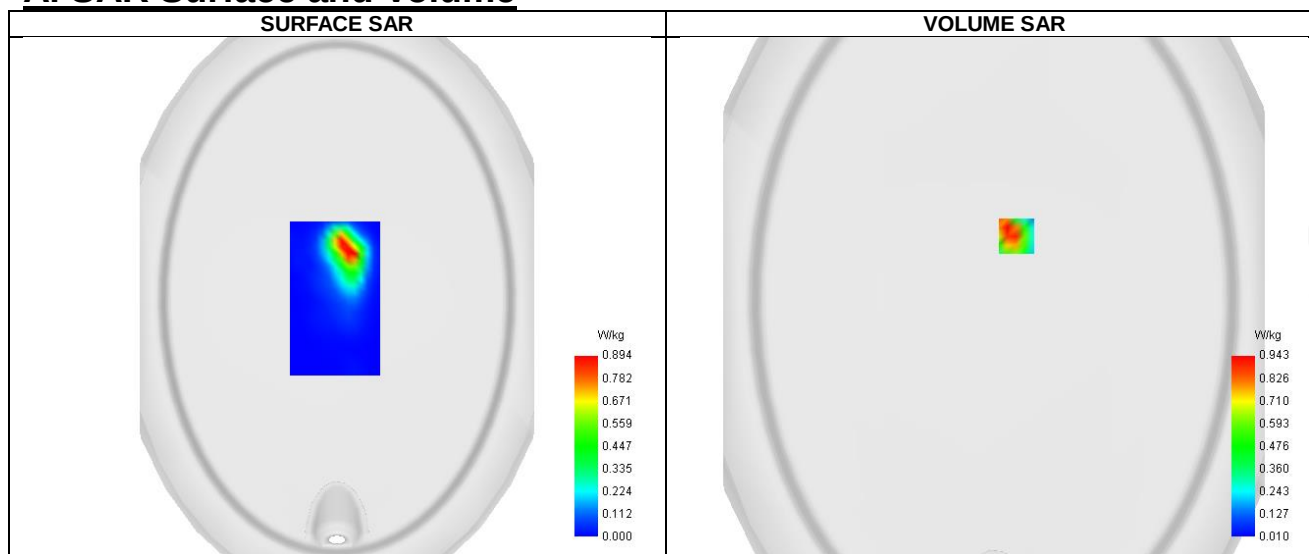


D. 3D Image



**Plot 2: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-13
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	39.76
Conductivity (S/m)	1.44

A. SAR Surface and Volume

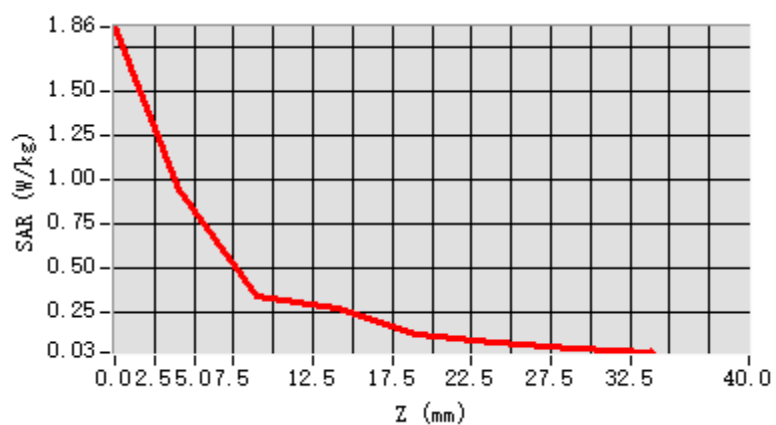
Maximum location: X=20.00, Y=56.00 ; SAR Peak: 1.54 W/kg

B. SAR 1g & 10g

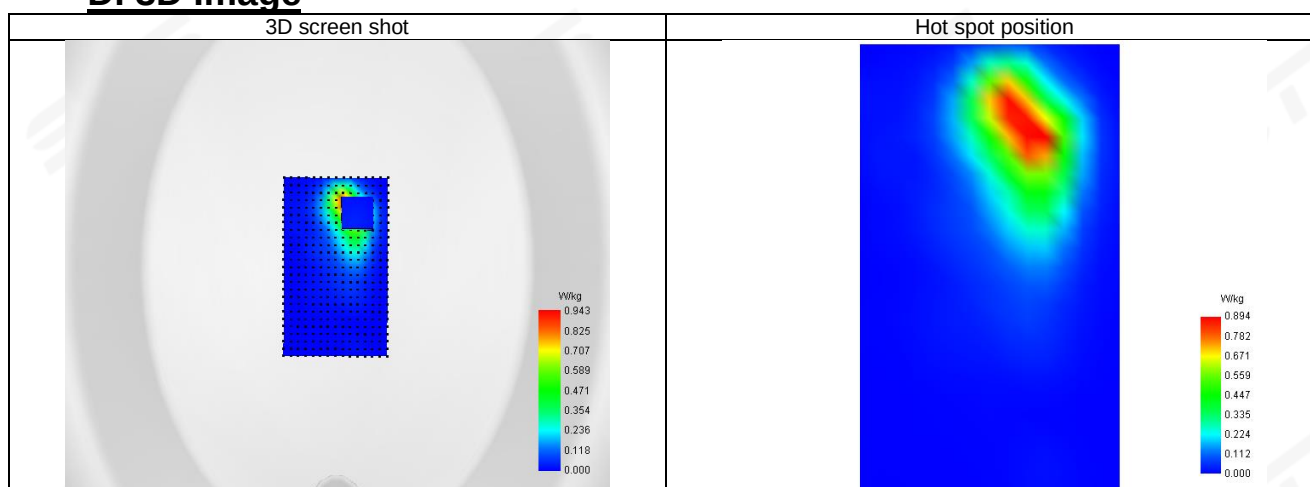
SAR 10g (W/Kg)	0.487
SAR 1g (W/Kg)	0.903
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	60.278770

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.865	0.943	0.350	0.282	0.133	0.085	0.051

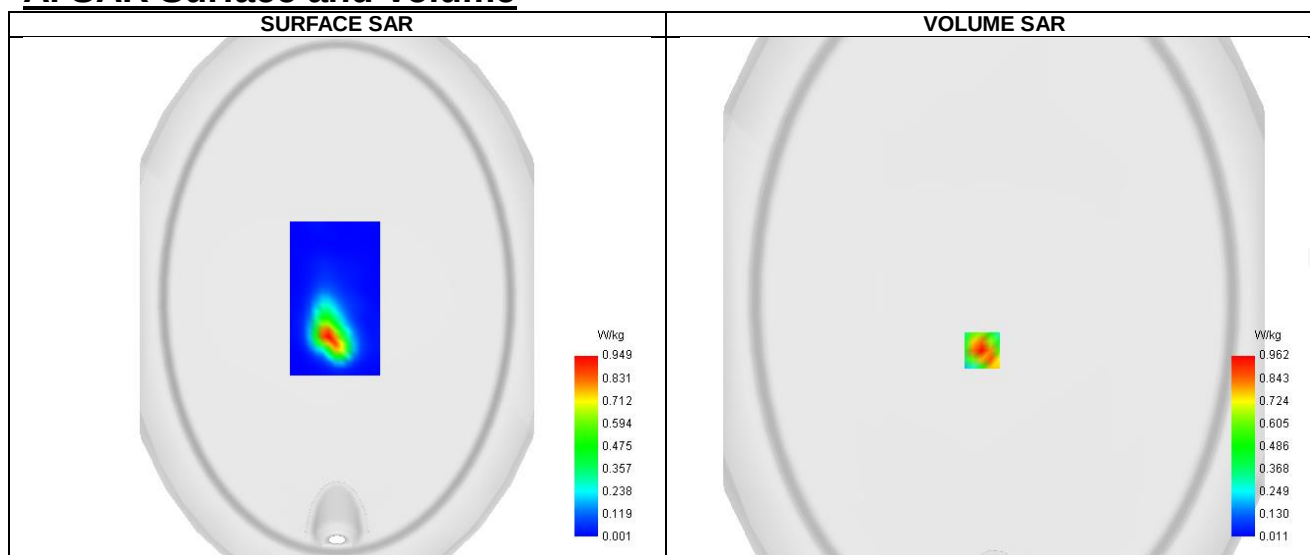


D. 3D Image



**Plot 3: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-13
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	39.76
Conductivity (S/m)	1.44

A. SAR Surface and Volume

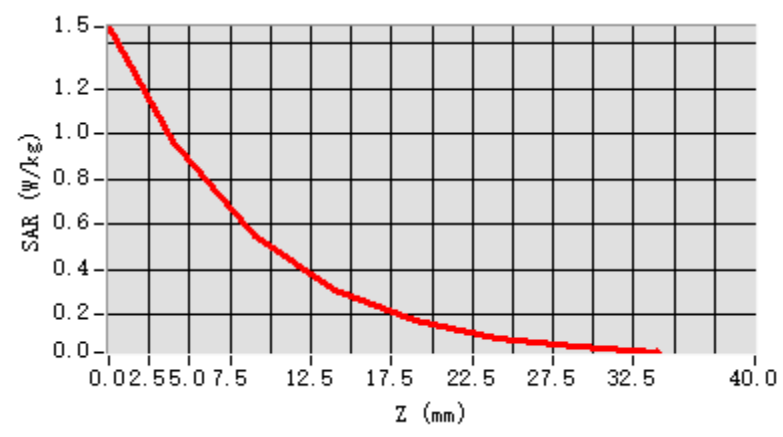
Maximum location: X=-11.00, Y=-47.00 ; SAR Peak: 1.47 W/kg

B. SAR 1g & 10g

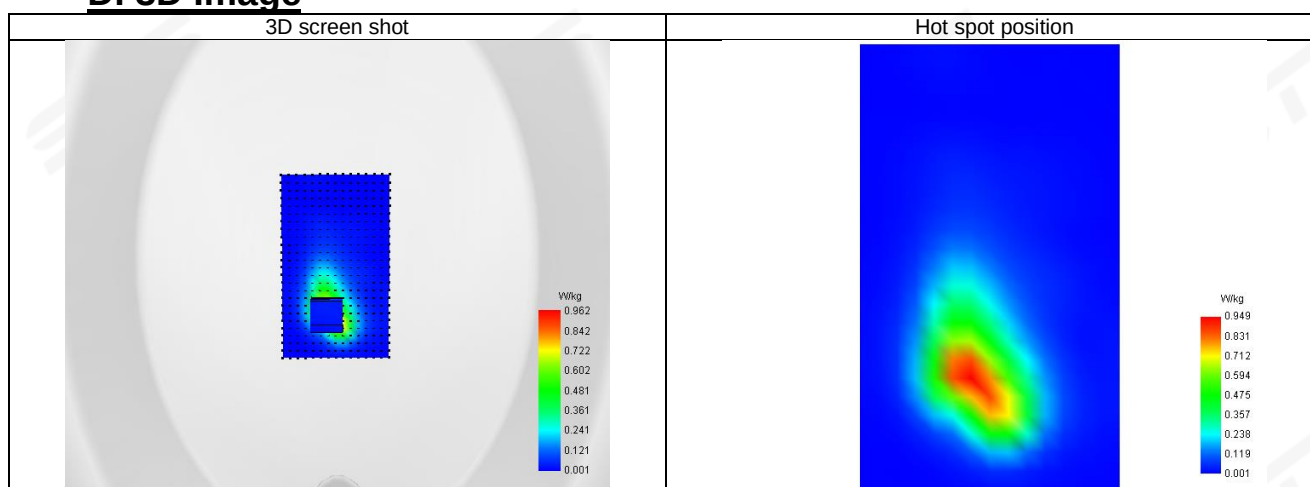
SAR 10g (W/Kg)	0.486
SAR 1g (W/Kg)	0.905
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.219117

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.471	0.962	0.550	0.312	0.178	0.100	0.057

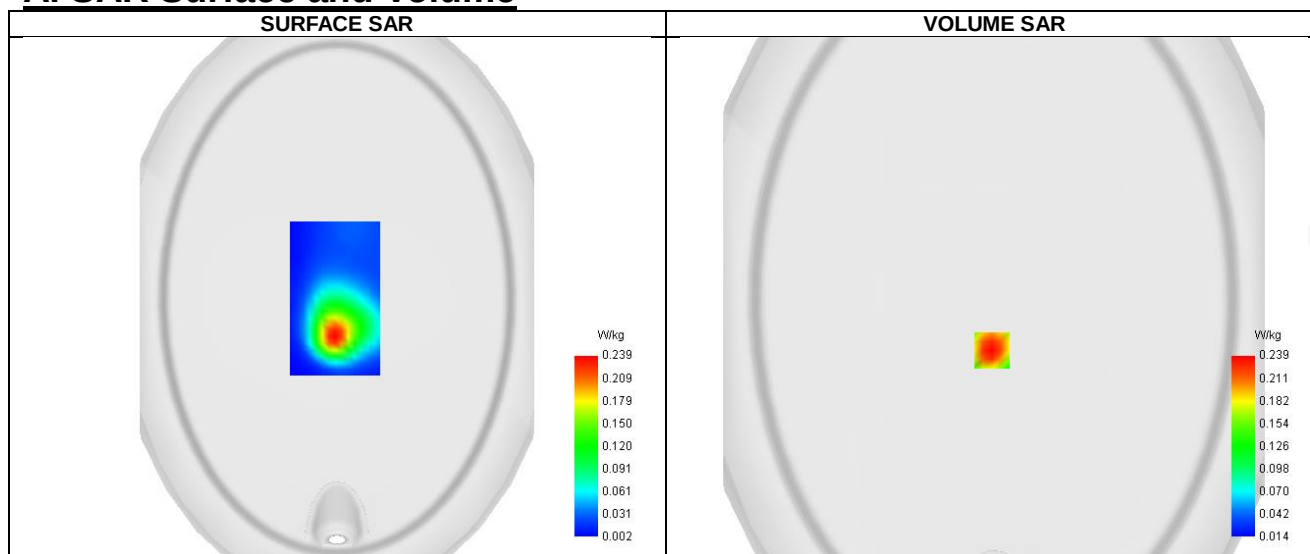


D. 3D Image



**Plot 4: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-12
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	41.38
Conductivity (S/m)	0.89

A. SAR Surface and Volume

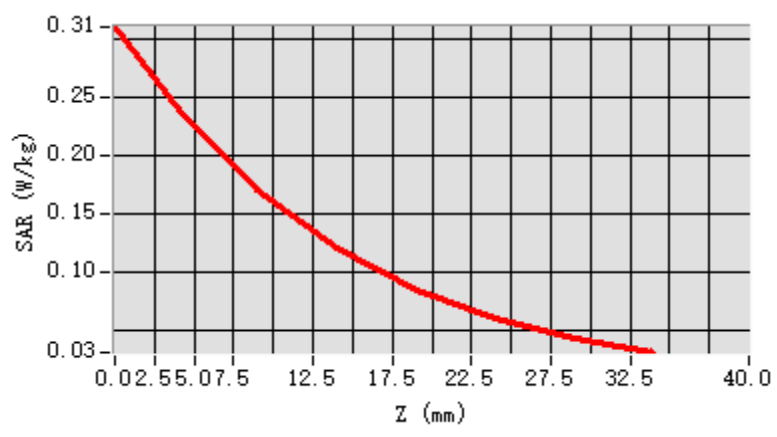
Maximum location: X=-2.00, Y=-47.00 ; SAR Peak: 0.32 W/kg

B. SAR 1g & 10g

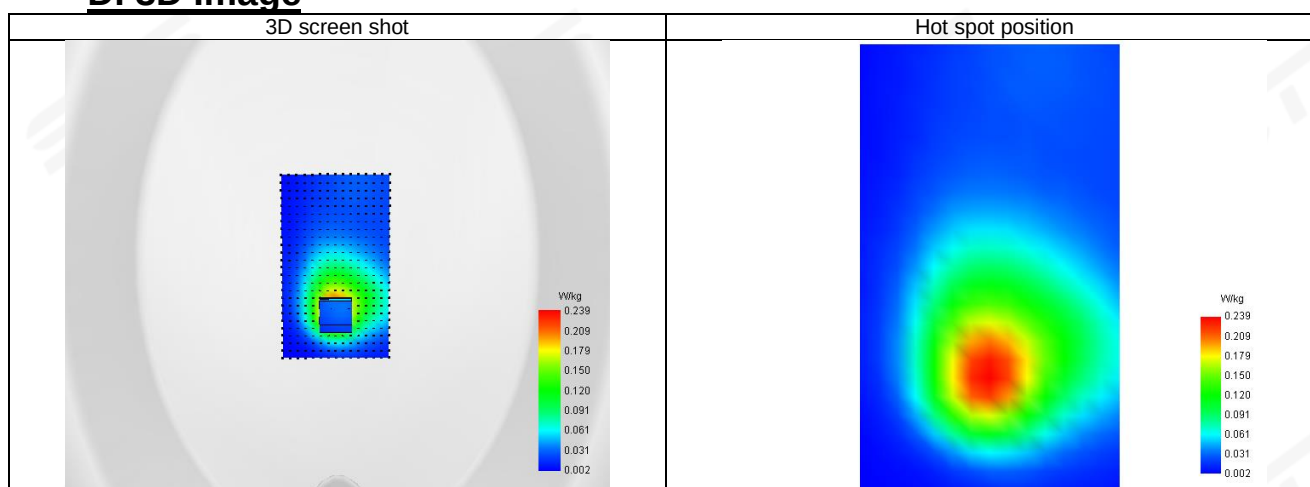
SAR 10g (W/Kg)	0.153
SAR 1g (W/Kg)	0.230
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.898711

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.310	0.239	0.169	0.120	0.083	0.059	0.043

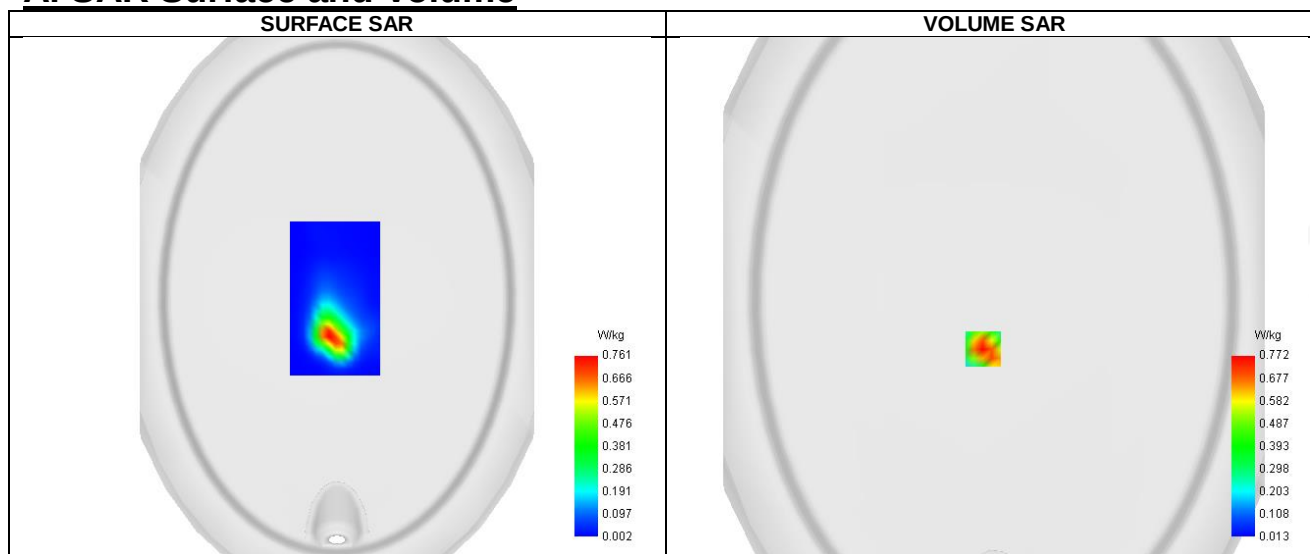


D. 3D Image



**Plot 5: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-13
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, 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)	1740
Relative permittivity (real part)	41.28
Conductivity (S/m)	1.36

A. SAR Surface and Volume

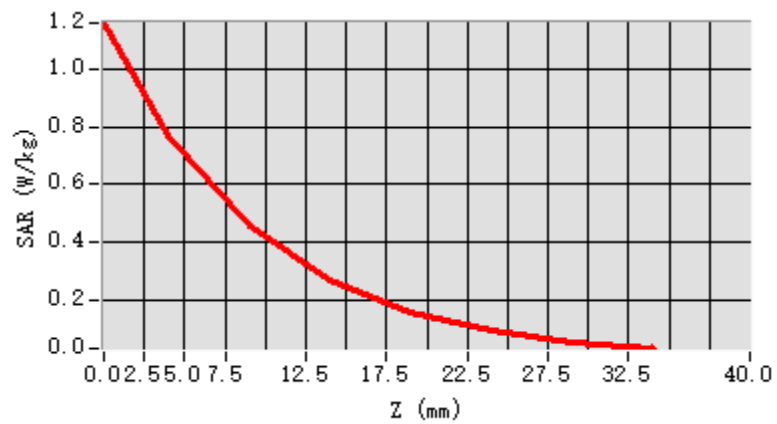
Maximum location: X=-10.00, Y=-46.00 ; SAR Peak: 1.15 W/kg

B. SAR 1g & 10g

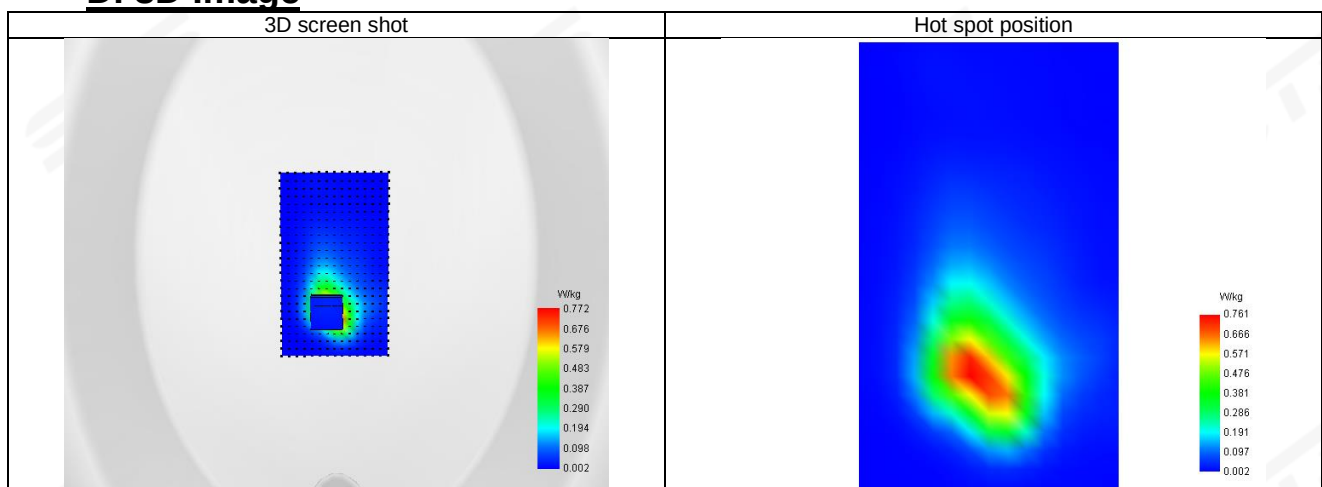
SAR 10g (W/Kg)	0.406
SAR 1g (W/Kg)	0.730
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.898711

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.158	0.772	0.455	0.267	0.158	0.093	0.056

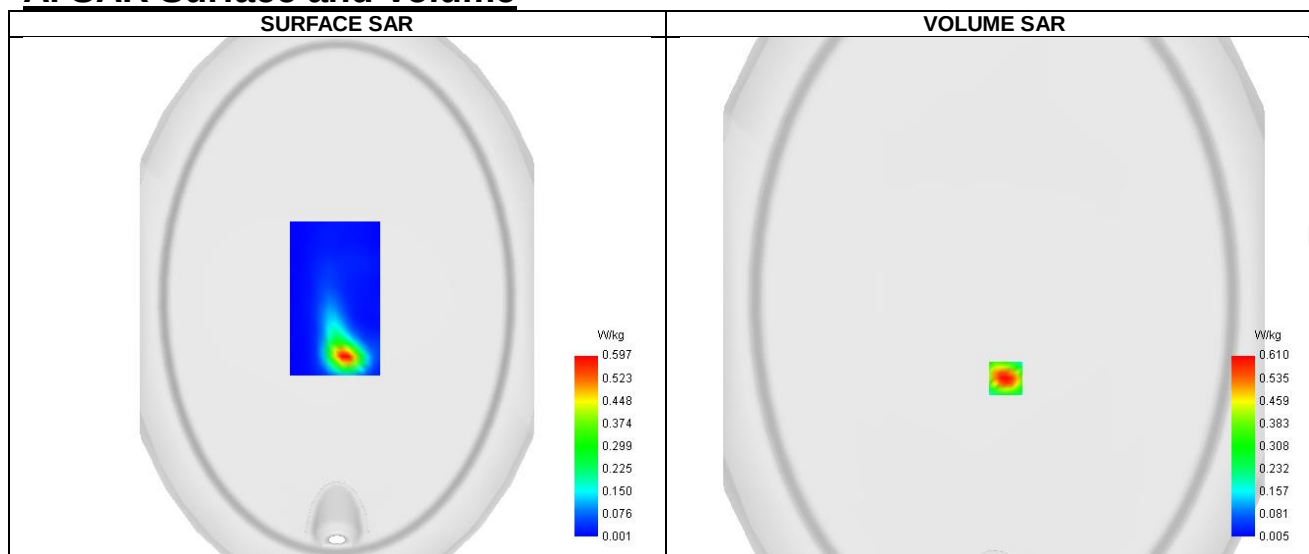


D. 3D Image



**Plot 6: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-14
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 7(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	40.12
Conductivity (S/m)	1.88

A. SAR Surface and Volume

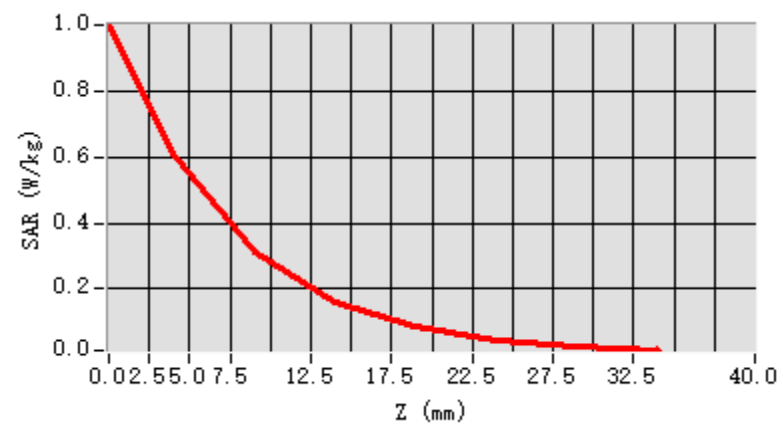
Maximum location: X=11.00, Y=-72.00 ; SAR Peak: 0.99 W/kg

B. SAR 1g & 10g

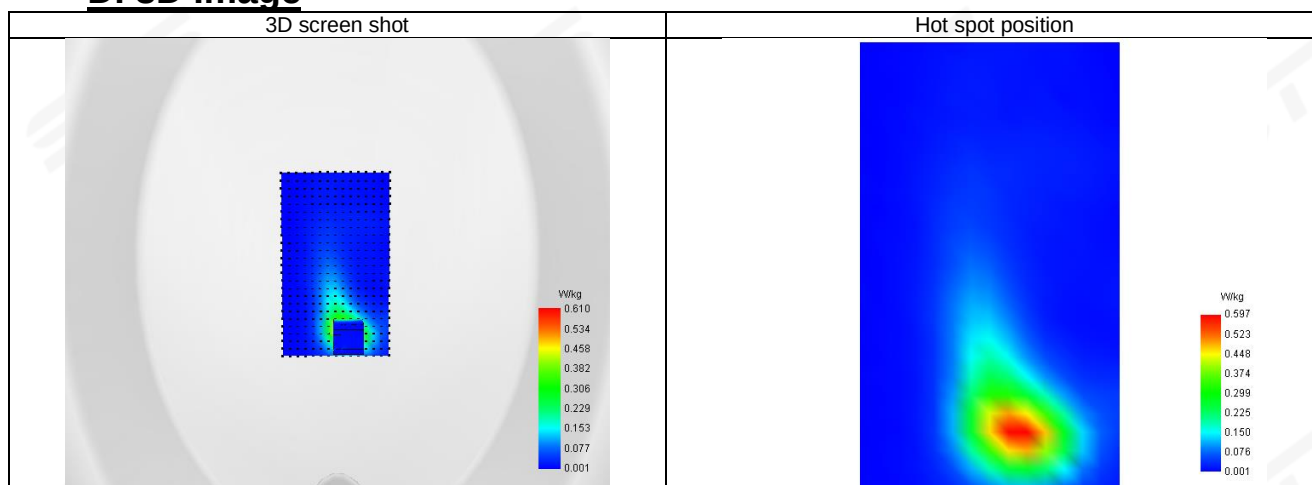
SAR 10g (W/Kg)	0.290
SAR 1g (W/Kg)	0.570
Horizontal validation criteria: minimum distance (mm)	15.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.944483

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.003	0.610	0.311	0.161	0.083	0.042	0.025

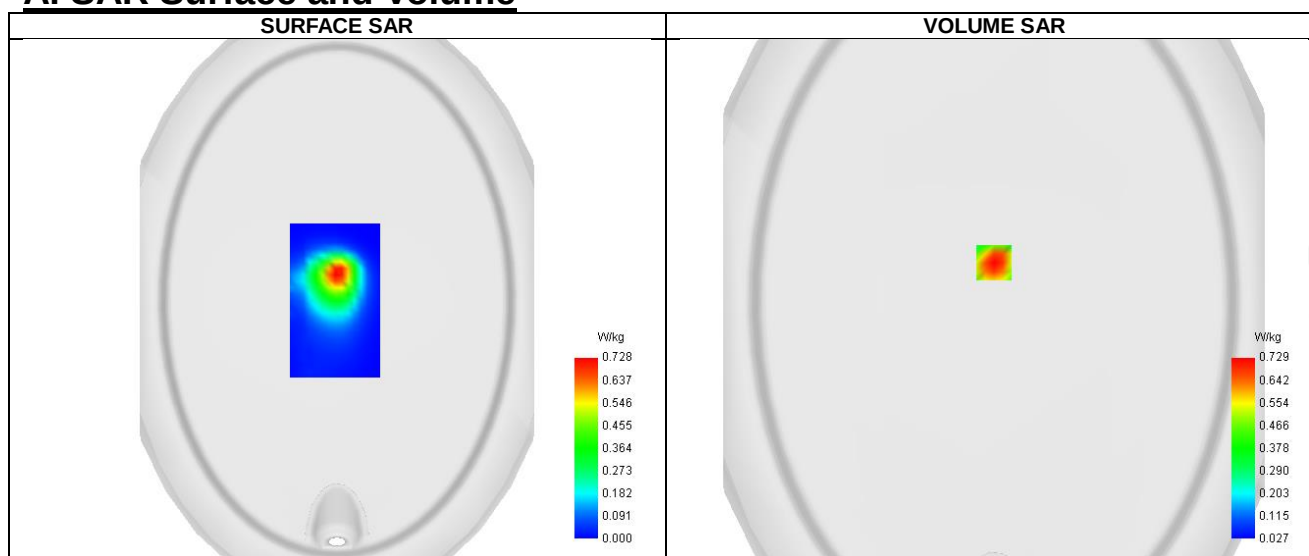


D. 3D Image



**Plot 7: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-12
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	42.62
Conductivity (S/m)	0.90

A. SAR Surface and Volume

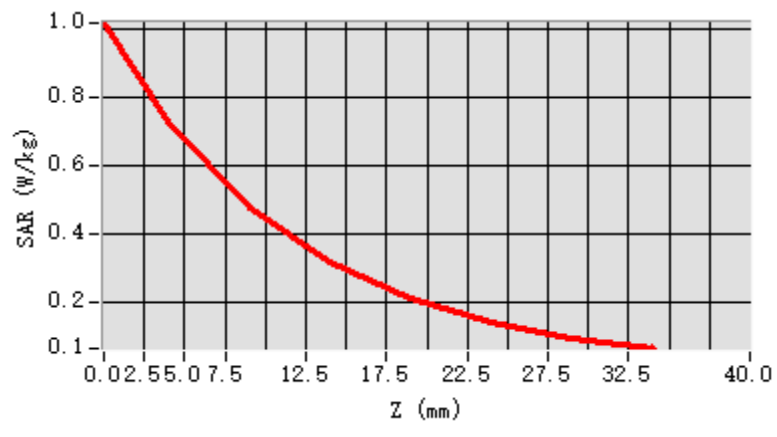
Maximum location: X=0.00, Y=34.00 ; SAR Peak: 1.08 W/kg

B. SAR 1g & 10g

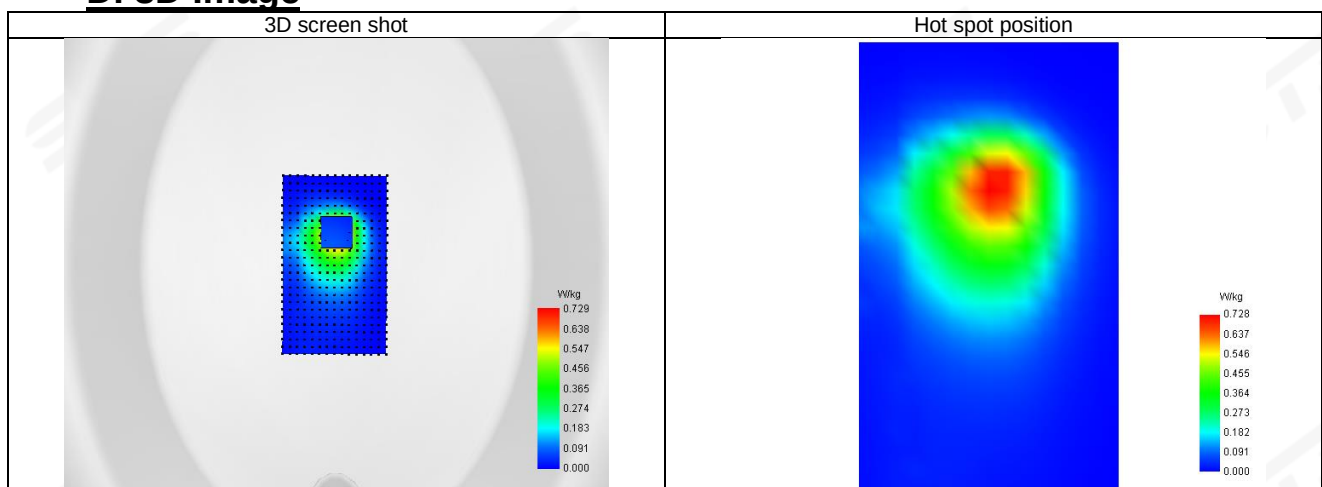
SAR 10g (W/Kg)	0.434
SAR 1g (W/Kg)	0.703
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	65.967105

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.019	0.729	0.481	0.318	0.216	0.144	0.096

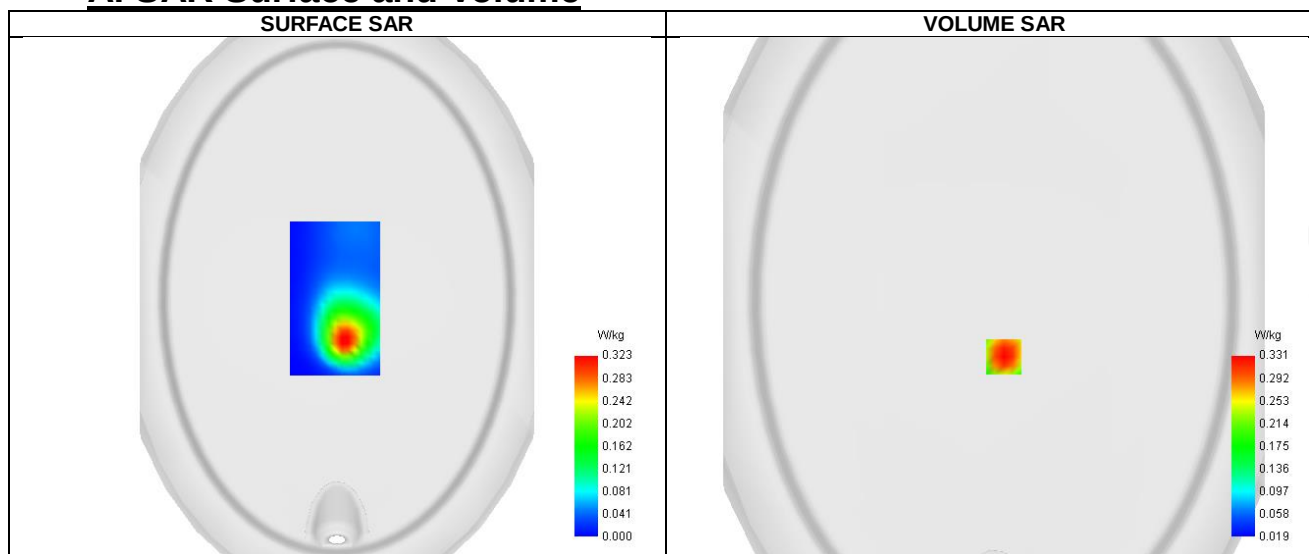


D. 3D Image



**Plot 8: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-12
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 18 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	827.5
Relative permittivity (real part)	41.95
Conductivity (S/m)	0.89

A. SAR Surface and Volume

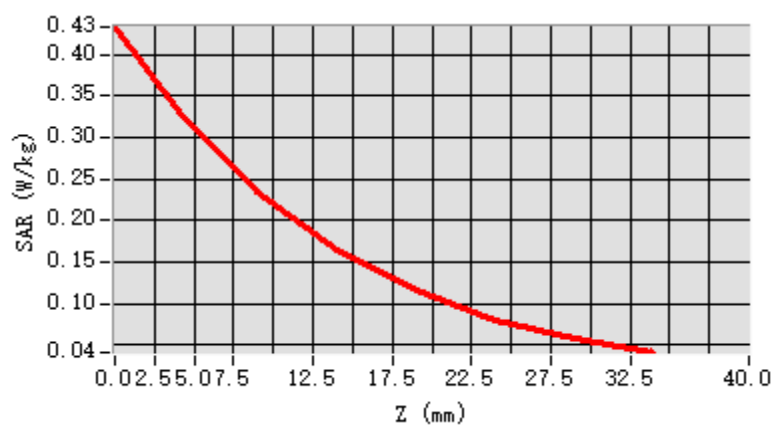
Maximum location: X=9.00, Y=-53.00 ; SAR Peak: 0.44 W/kg

B. SAR 1g & 10g

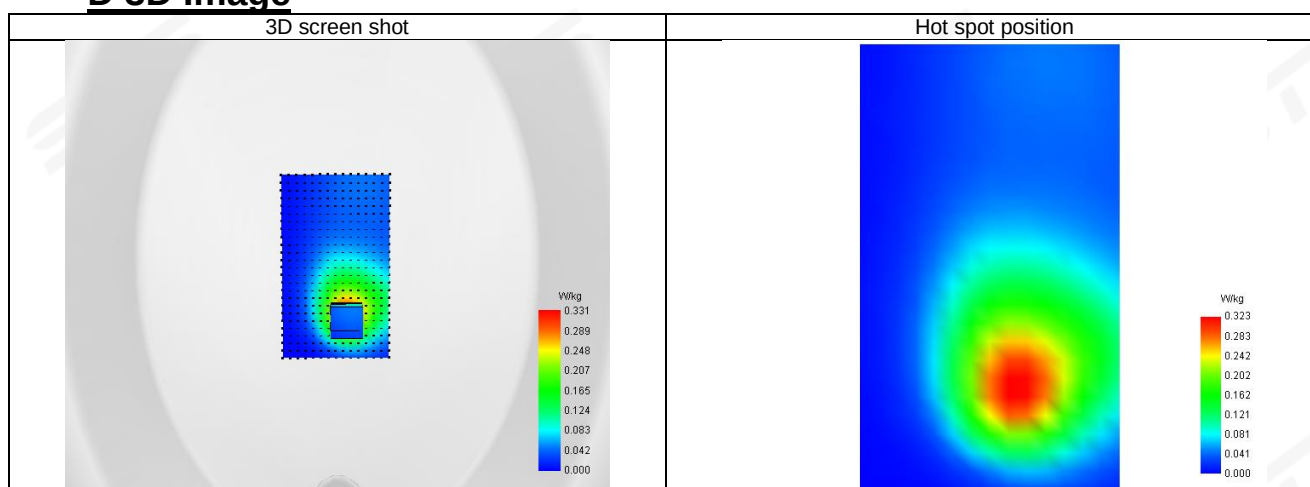
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.318
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	65.896616

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.434	0.331	0.234	0.165	0.116	0.081	0.058

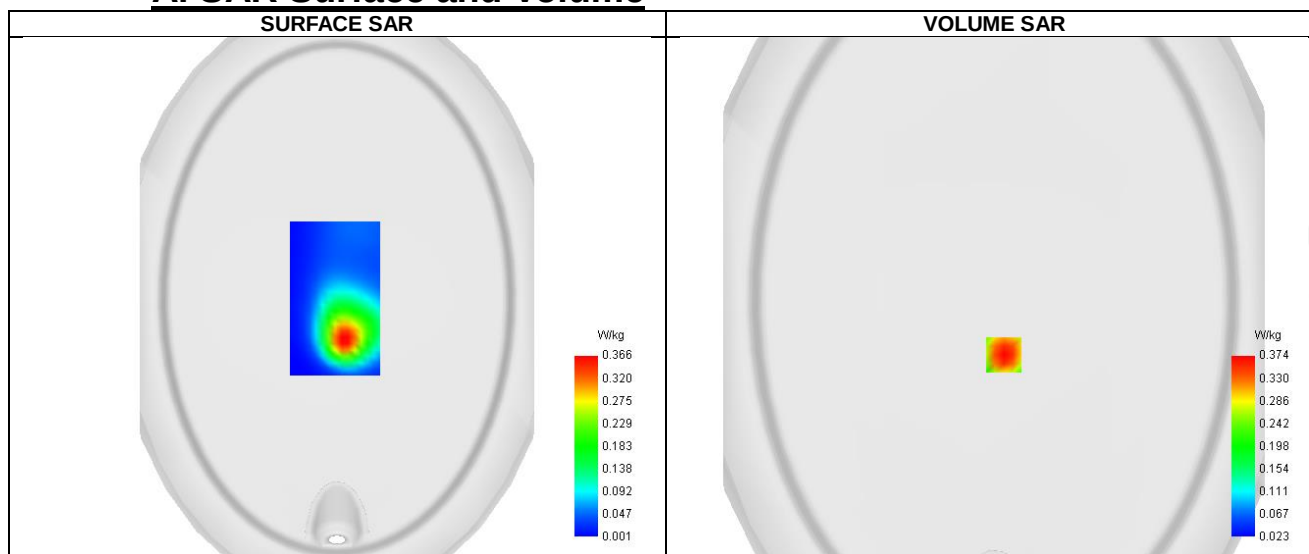


D 3D Image



**Plot 9: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-12
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 19 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	837.5
Relative permittivity (real part)	42.55
Conductivity (S/m)	0.89

A. SAR Surface and Volume

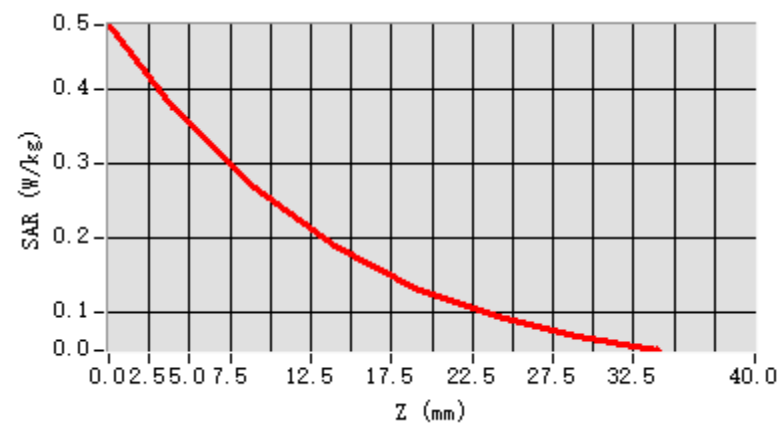
Maximum location: X=9.00, Y=-51.00 ; SAR Peak: 0.49 W/kg

B. SAR 1g & 10g

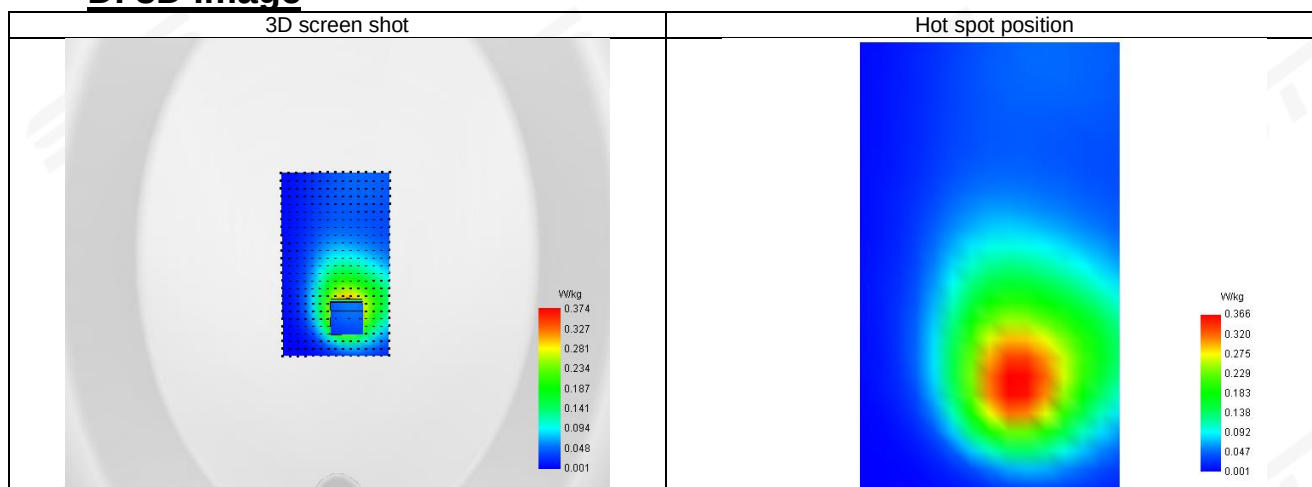
SAR 10g (W/Kg)	0.242
SAR 1g (W/Kg)	0.354
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	65.129485

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.485	0.374	0.267	0.189	0.133	0.094	0.067

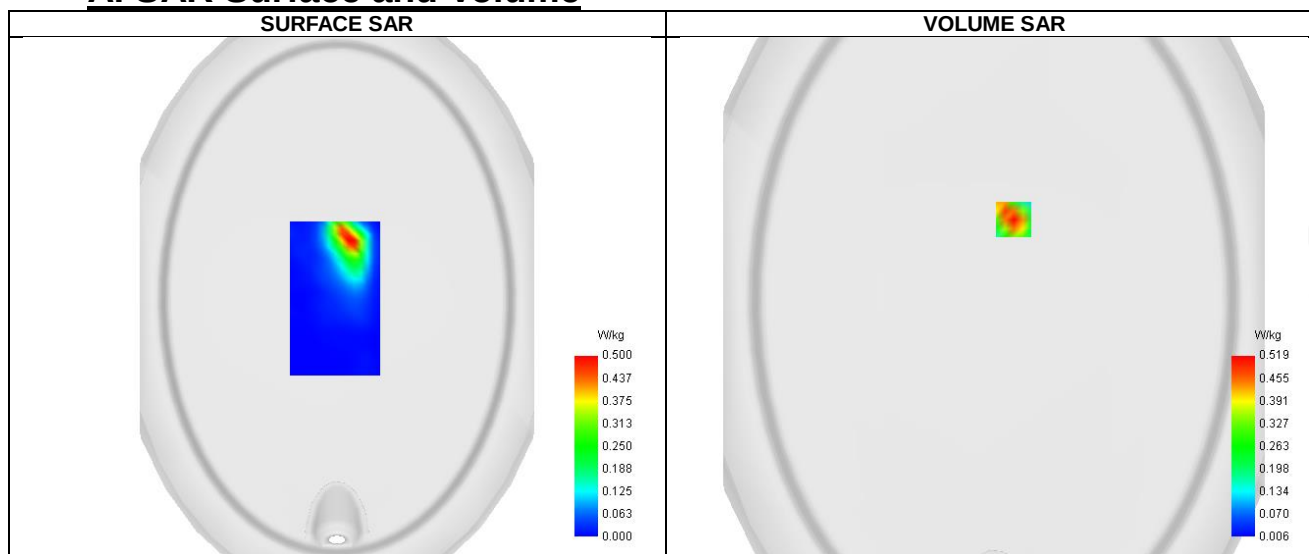


D. 3D Image



**Plot 10: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-13
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 25 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1882.5
Relative permittivity (real part)	41.09
Conductivity (S/m)	1.46

A. SAR Surface and Volume

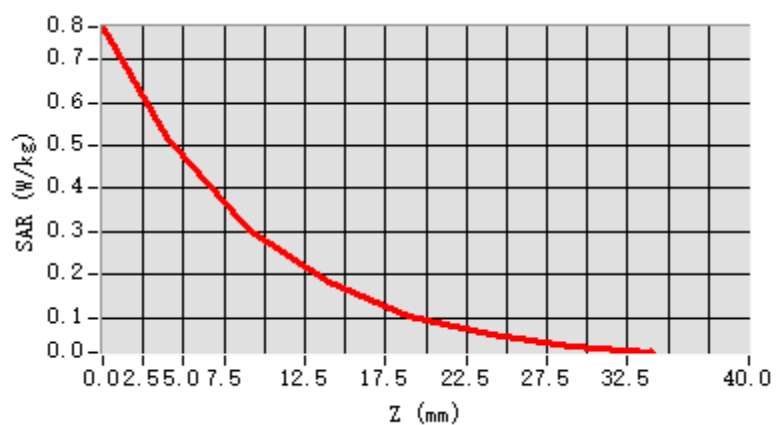
Maximum location: X=18.00, Y=71.00 ; SAR Peak: 0.78 W/kg

B. SAR 1g & 10g

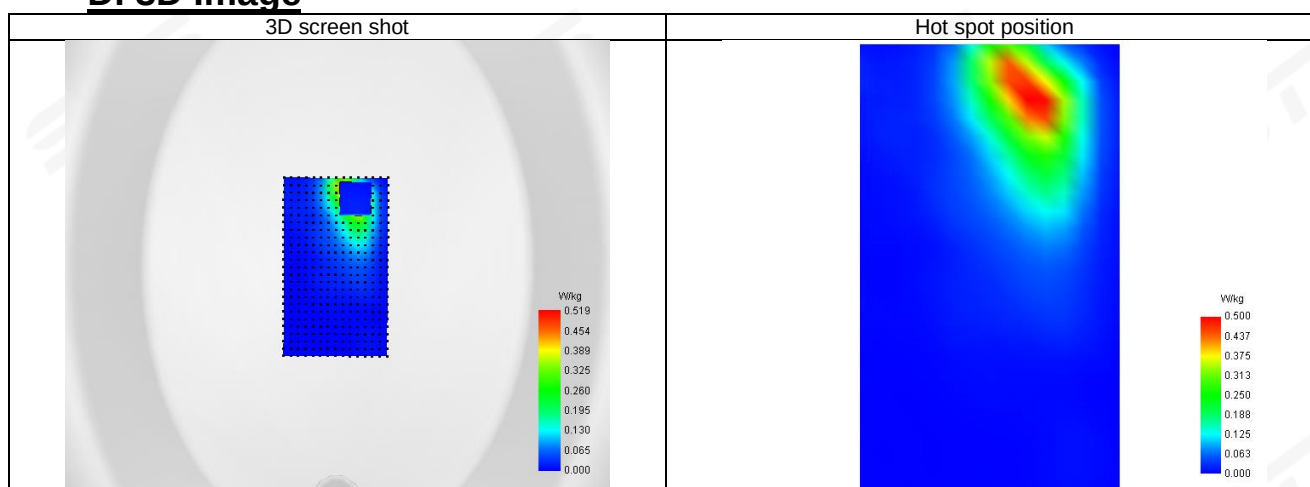
SAR 10g (W/Kg)	0.270
SAR 1g (W/Kg)	0.488
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.119952

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.774	0.519	0.307	0.181	0.106	0.062	0.037

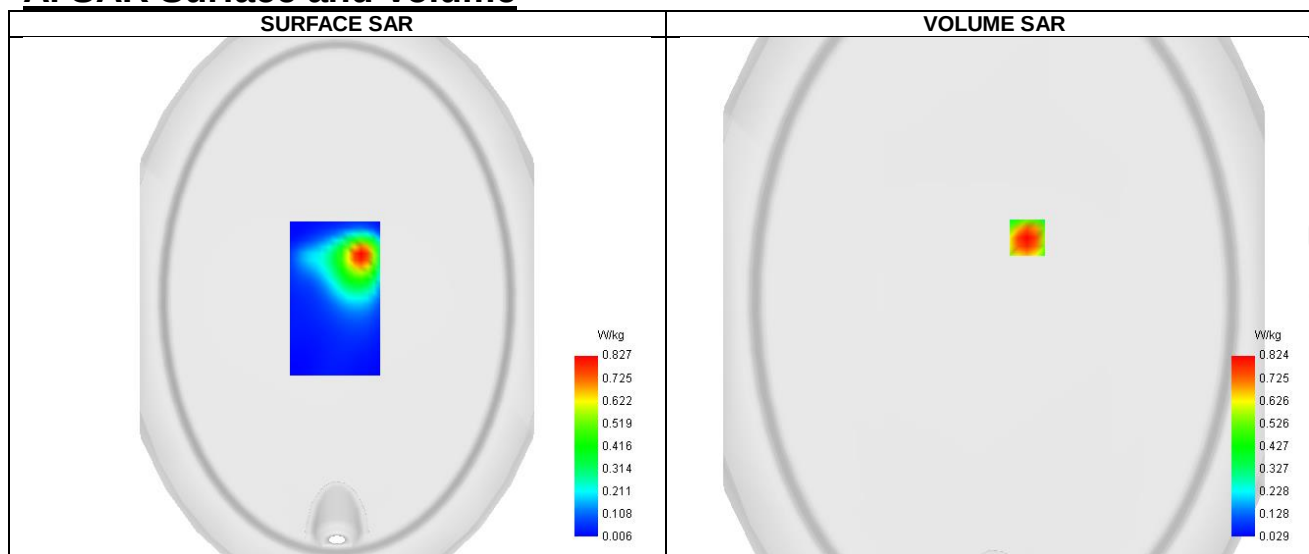


D. 3D Image



**Plot 11: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

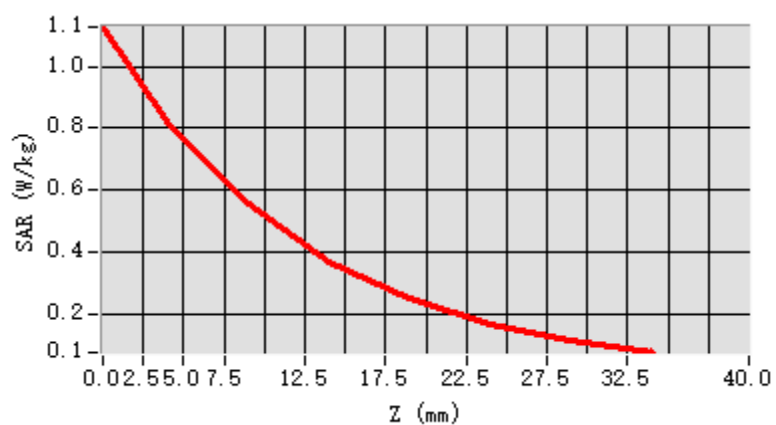
Test Date	2026-06-12
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15m, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 26 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	42.10
Conductivity (S/m)	0.89

A. SAR Surface and Volume**B. SAR 1g & 10g**

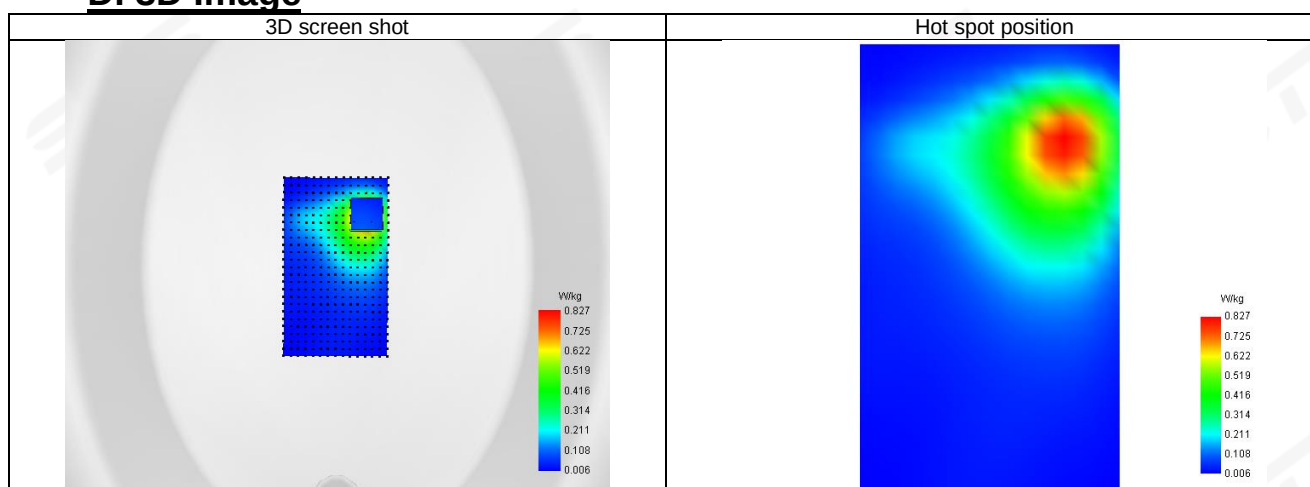
SAR 10g (W/Kg)	0.498
SAR 1g (W/Kg)	0.790
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	67.813216

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.127	0.824	0.554	0.371	0.251	0.169	0.113

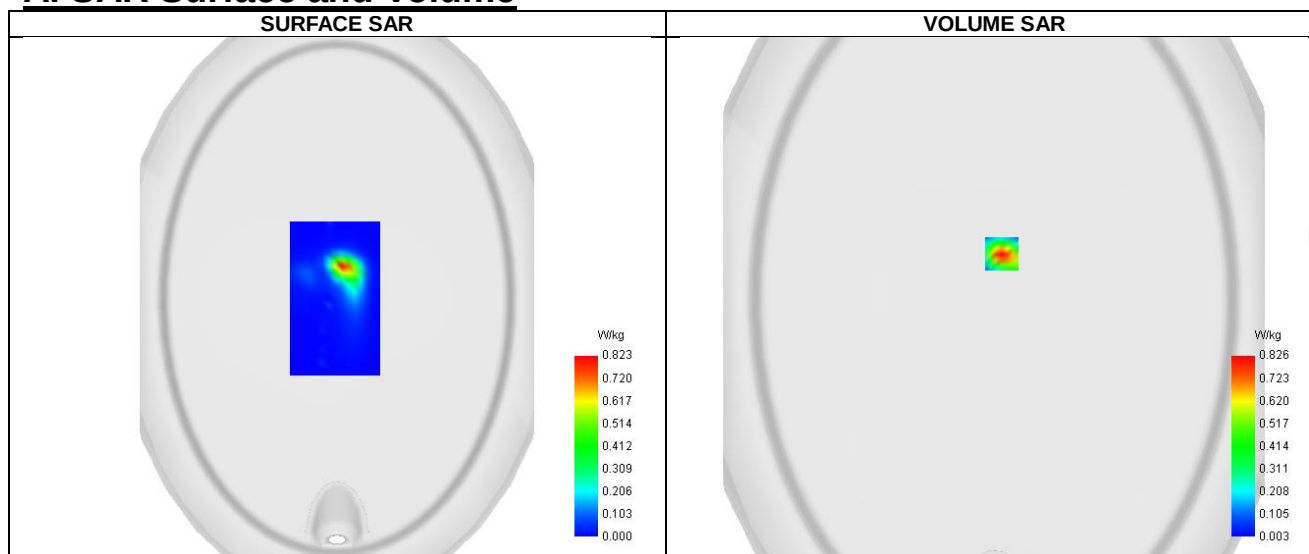


D. 3D Image



**Plot 12: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-14
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2549.5
Relative permittivity (real part)	39.42
Conductivity (S/m)	1.89

A. SAR Surface and Volume

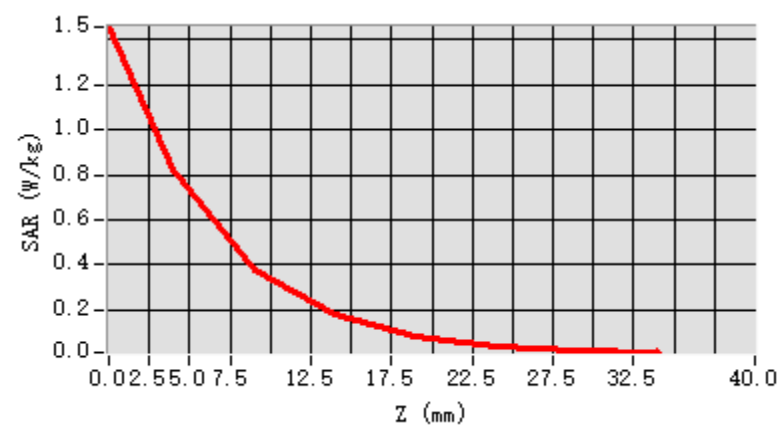
Maximum location: X=7.00, Y=40.00 ; SAR Peak: 1.44 W/kg

B. SAR 1g & 10g

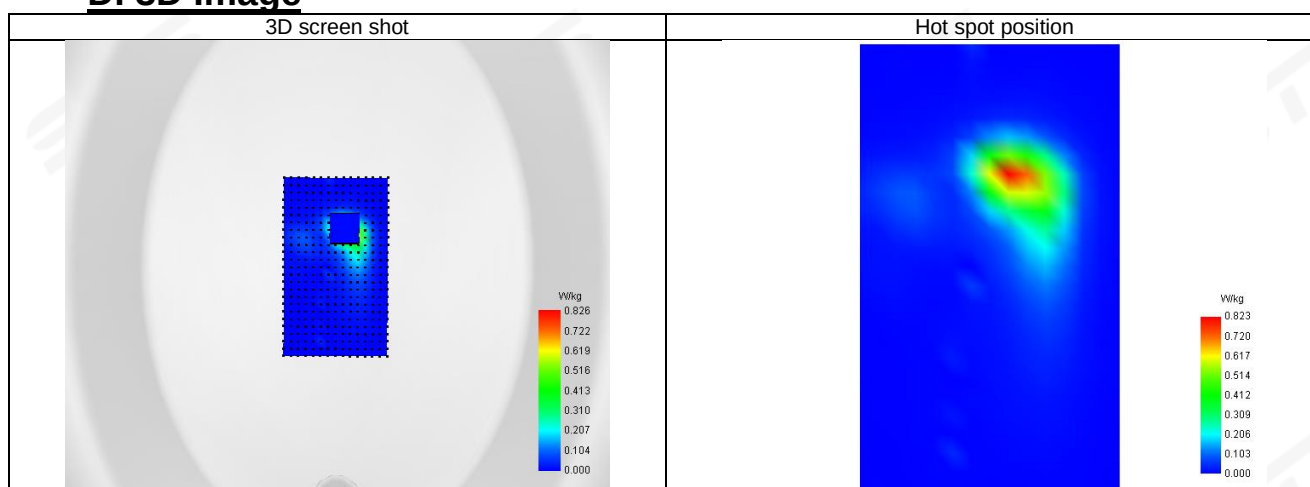
SAR 10g (W/Kg)	0.335
SAR 1g (W/Kg)	0.755
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	45.505314

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.457	0.826	0.376	0.180	0.085	0.040	0.019

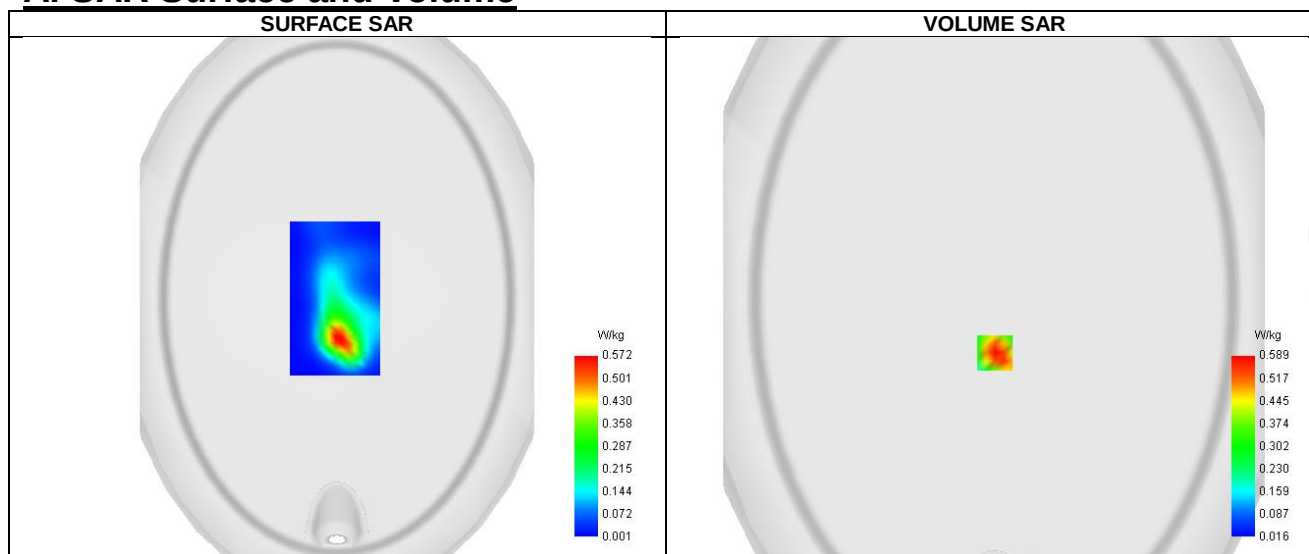


D. 3D Image



**Plot 13: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-13
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1770
Relative permittivity (real part)	39.65
Conductivity (S/m)	1.36

A. SAR Surface and Volume

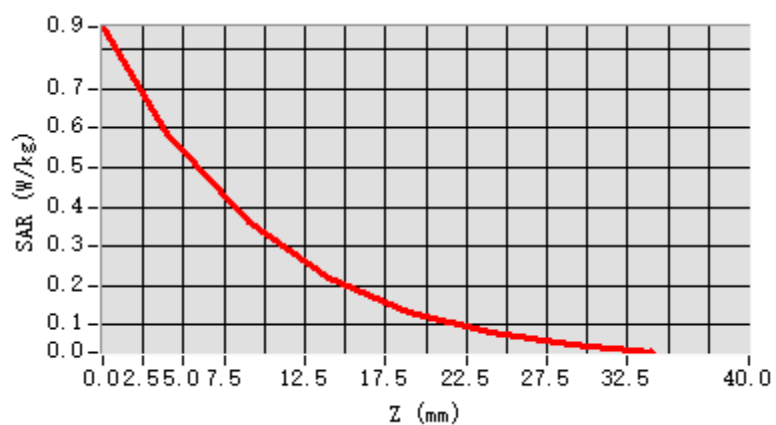
Maximum location: X=1.00, Y=-49.00 ; SAR Peak: 0.87 W/kg

B. SAR 1g & 10g

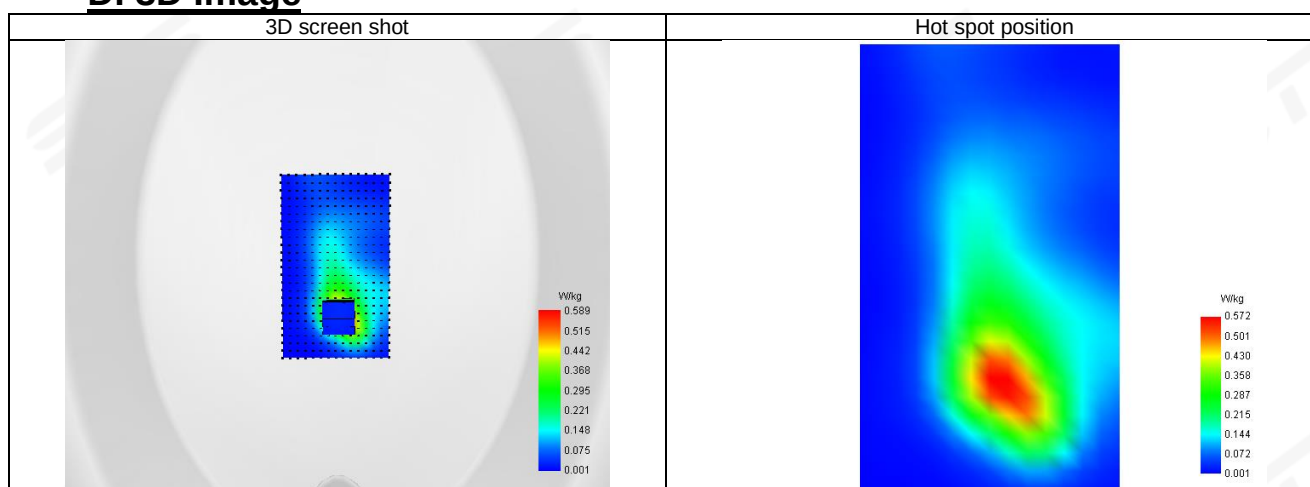
SAR 10g (W/Kg)	0.328
SAR 1g (W/Kg)	0.561
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	61.272441

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.857	0.589	0.361	0.221	0.134	0.084	0.052

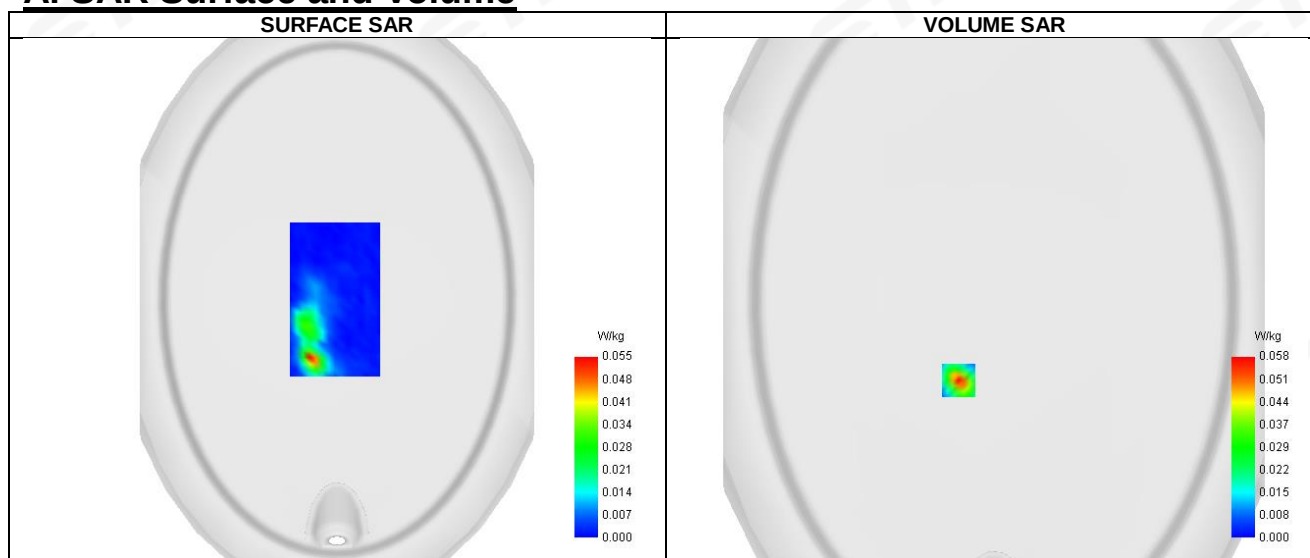


D. 3D Image



**Plot 14: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-14
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE 802.11b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.18
Conductivity (S/m)	1.79

A. SAR Surface and Volume

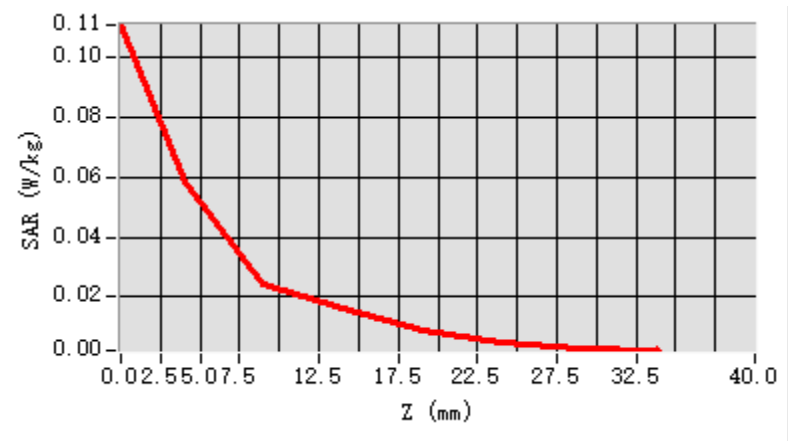
Maximum location: X=-32.00, Y=-73.00 ; SAR Peak: 0.11 W/kg

B. SAR 1g & 10g

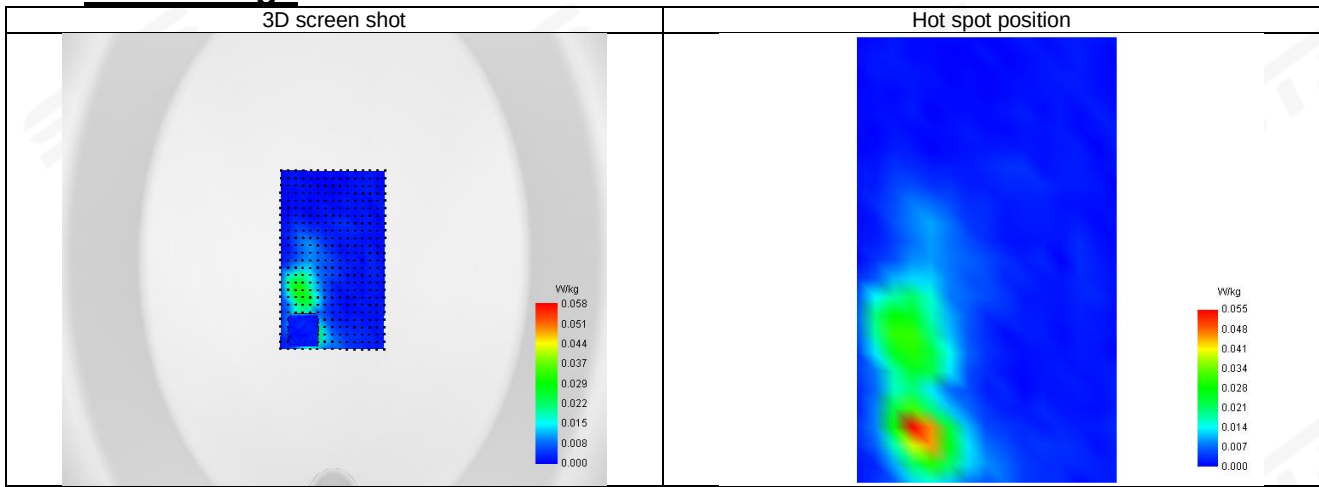
SAR 10g (W/Kg)	0.023
SAR 1g (W/Kg)	0.053
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	43.221659

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.111	0.058	0.024	0.016	0.009	0.005	0.003

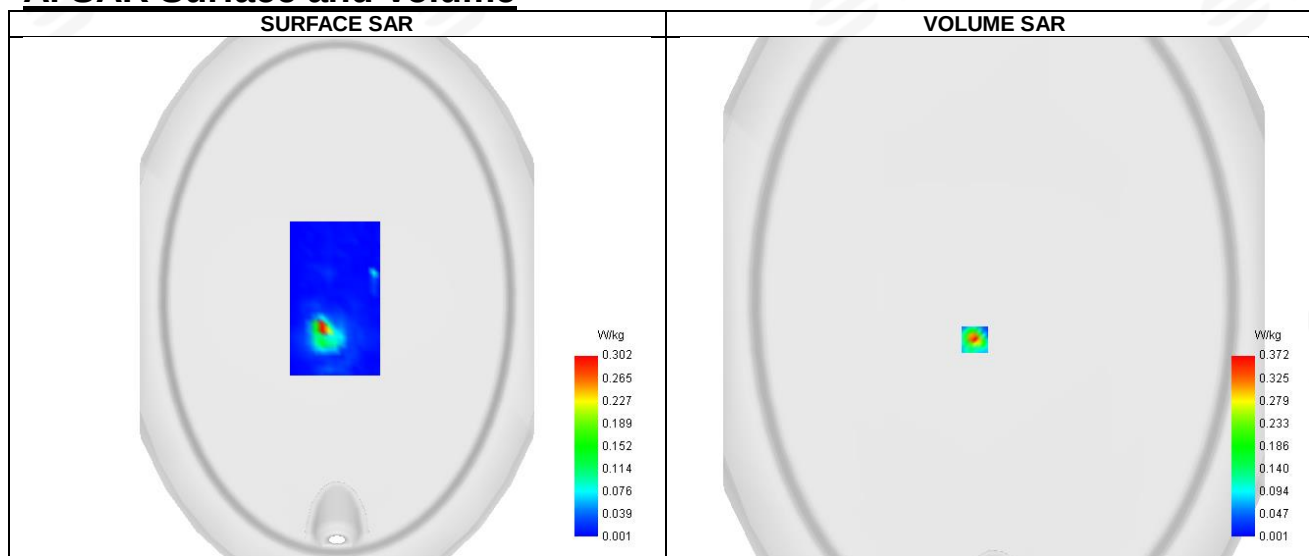


D. 3D Image



**Plot 15: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-14
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11n20 ISM
Signal	IEEE802.n20 (Crest factor: 1.0)
Frequency (MHz)	5200
Relative permittivity (real part)	35.47
Conductivity (S/m)	4.67

A. SAR Surface and Volume

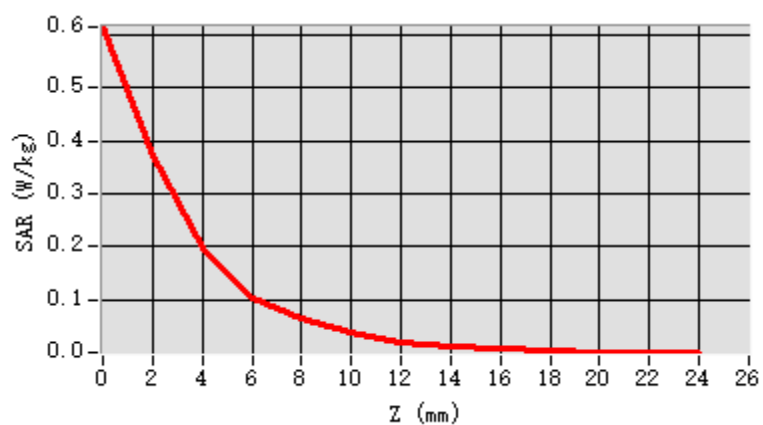
Maximum location: X=-17.00, Y=-37.00 ; SAR Peak: 0.67 W/kg

B. SAR 1g & 10g

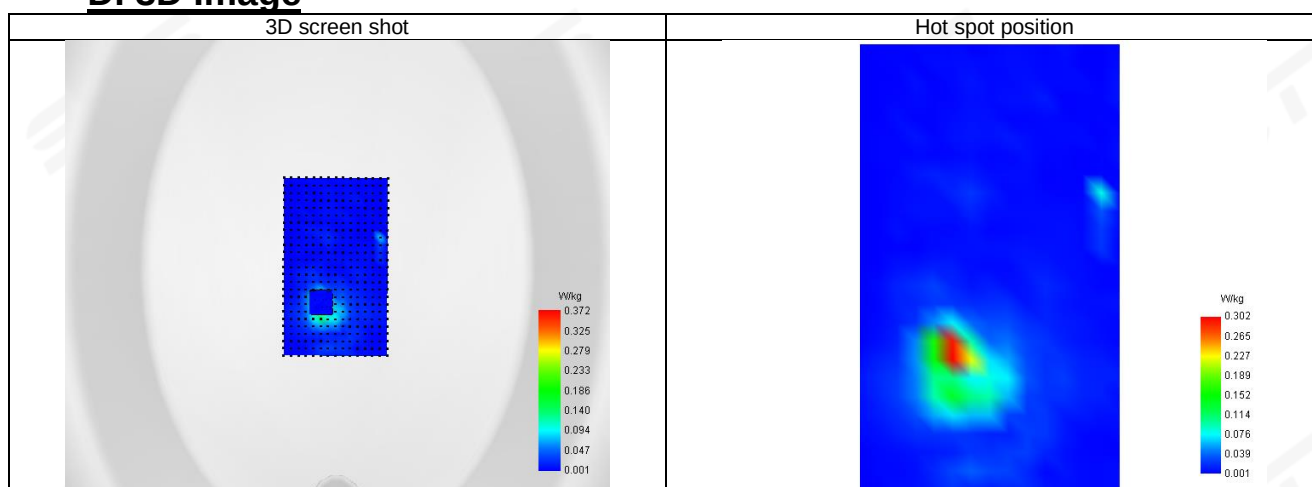
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.215
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.217188

C. 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)	0.614	0.372	0.198	0.103	0.067	0.039	0.022	0.013	0.007	0.004	0.002	0.001

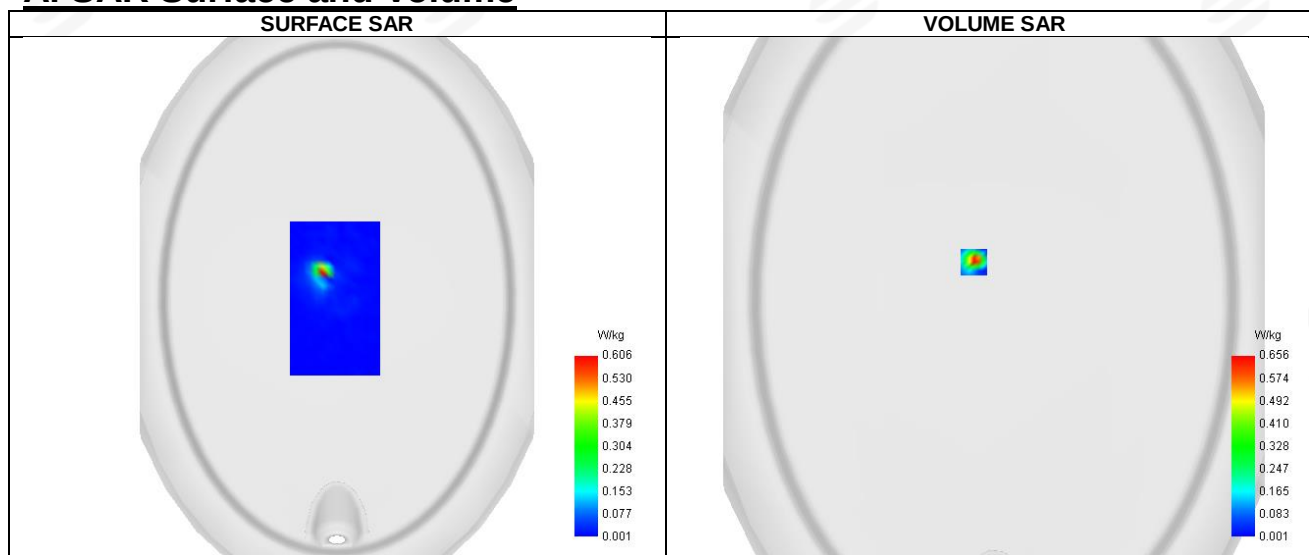


D. 3D Image



**Plot 16: DUT: 4G smart PAD Tablet ; EUT Model: AGM_P3_COMPACT**

Test Date	2026-06-14
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11n20 ISM
Signal	IEEE802.n20 (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	36.11
Conductivity (S/m)	5.22

A. SAR Surface and Volume

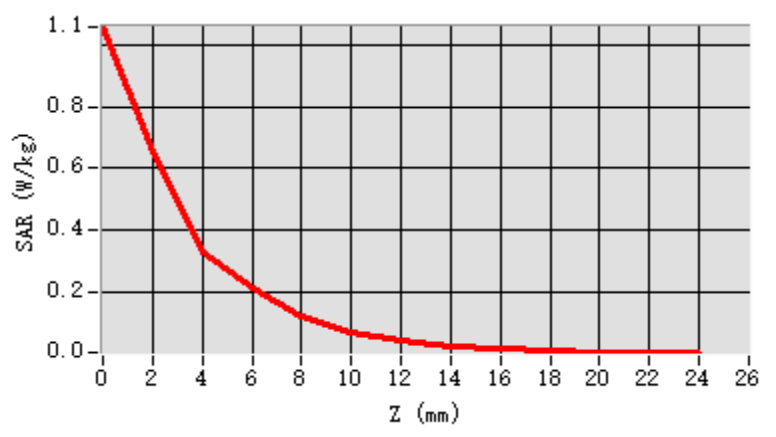
Maximum location: X=-18.00, Y=33.00 ; SAR Peak: 1.31 W/kg

B. SAR 1g & 10g

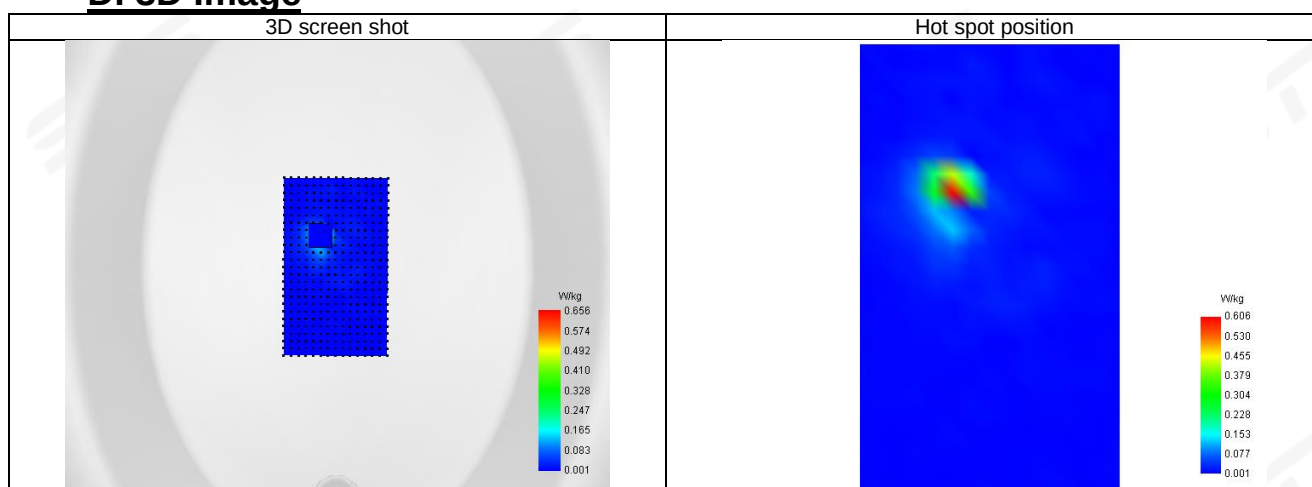
SAR 10g (W/Kg)	0.098
SAR 1g (W/Kg)	0.369
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	50.006573

C. 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)	1.060	0.656	0.328	0.211	0.122	0.071	0.041	0.024	0.014	0.008	0.005	0.003



D. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※