SAR Test Report

For

Applicant Name:	Fujian Centerm Information Co., Ltd.
Address:	#21-#22 Buildings, No.618, Jinshan Road, Jinshan Industrial Park, Cangshan District, Fuzhou City, Fujian Province, China
EUT Name:	Smart POS
Brand Name:	Centerm
Model Number:	CTA K10

Issued By

Company Name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report Number:	BTF260326R00201
Test Standards:	47 CFR Part 2.1093 IEEE1528-2013 IEEE C95.1-2019
FCC ID:	2AN9R-CTAK10-Z
Test Conclusion:	Pass
Test Date:	2026-04-10 to 2026-04-29
Date of Issue:	2026-04-30
Tested By:	Ella. Ku
	Ella Ku / Tester
Date:	2026-04-30
Prepared By:	Amenda Zhong
	Amenda Zhong / Project Engineer
Date:	2026-04-30
Approved By:	Ryan.CJ
	Ryan.CJ / EMC Manager
Date:	2026-04-30

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-04-30	Original
Note:	*Once the revision has been made, then previous versions reports are invalid.*	

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
FCC Registration Number	518915
Designation Number	CN1330

1.3 Laboratory Condition

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

1.4 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

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2. Product Information

2.1 Application Information

Company Name:	Fujian Centerm Information Co., Ltd.
Address:	#21-#22 Buildings, No.618, Jinshan Road, Jinshan Industrial Park, Cangshan District, Fuzhou City, Fujian Province, China

2.2 Manufacturer Information

Company Name:	Fujian Centerm Information Co., Ltd.
Address:	#21-#22 Buildings, No.618, Jinshan Road, Jinshan Industrial Park, Cangshan District, Fuzhou City, Fujian Province, China

2.3 Factory Information

Company Name:	Fujian Star-net Communication Co., Ltd.
Address:	Star-net Science Plaza, No.9, Gaoxin Avenue, Shangjie Town, Minhou County, Fuzhou, Fujian, China.

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart POS
Under Test Model Name	CTA K10
Hardware Version	V3.00-0202.1000
Sample No.	BTFSN260326002

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	2600mAh
	Nominal Voltage	7.6V

2.6 Technical Information

Network and Wireless connectivity	2G Network GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/14/17/25/26/66/71 TDD LTE Band 38/41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) BT (EDR+BLE) NFC
Note:The EUT supports dual SIM cards, and we will use SIM1 for testing uniformly.	

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

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth, NFC		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 14	TX: 788 ~ 798 MHz	RX: 758 ~ 768 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26 part 90	TX: 814.7 ~ 823.3 MHz	RX: 859.7 ~ 868.3 MHz
	LTE Band 26 part 22	TX: 824.7 ~ 848.3 MHz	RX: 869.7 ~ 893.3 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 38	TX: 663 ~ 698MHz	RX: 617 ~ 652MHz
	LTE Band 41	2496 ~ 2690 MHz	
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11n(HT40)	2422 ~ 2452 MHz	
	802.11a /802.11n(HT20/40) /802.11ac(VHT20/40/80)	U-NII-1: 5180 MHz ~ 5240 MHz, U-NII-2A: 5260 MHz ~ 5320 MHz, U-NII-2C: 5500 MHz ~ 5700 MHz, U-NII-3: 5745 MHz ~ 5825 MHz	
	Bluetooth	2402 ~ 2480 MHz	
	NFC	13.56MHz	
Antenna Type	WWAN: FPC Antenna WLAN: FPC Antenna BT: FPC Antenna NFC: FPC Antenna		
Hotspot Function	Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Note: This device does not have a receiver and does not support voice call functionality, so we do not need to test head SAR.			

3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radio frequency radiation exposure evaluation: portable devices
2	IEEE1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB 447498 D01	General RF Exposure Guidance v06
5	KDB 865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB 865664 D02	RF Exposure Reporting v01r02
7	KDB 941225 D05	SAR for LTE Devices v02r05
8	KDB 248227 D01	802.11 Wi-Fi SAR v02r02
9	KDB 941225 D06	Hotspot Mode v02r01
10	KDB 648474 D04	Handset SAR v01r03
11	KDB 690783 D01	SAR Listings on Grant v01r03

3.2 Device Category and SAR Limit

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

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

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

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

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3.3 Test Result Summary

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

<Highest Reported standalone SAR>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Body/Limb (Hotspot) 1-g SAR (0 mm Gap)	GSM 850	0.799	PCB	**1.133**
	GSM 1900	0.723		
	WCDMA Band II	0.789		
	WCDMA Band IV	0.796		
	WCDMA Band V	0.620		
	LTE Band 2	**1.133**		
	LTE Band 4	0.986		
	LTE Band 5	0.655		
	LTE Band 7	0.849		
	LTE Band 12	0.344		
	LTE Band 13	0.300		
	LTE Band 14	0.238		
	LTE Band 17	0.249		
	LTE Band 25	0.797		
	LTE Band 26 part 90	0.562		
	LTE Band 26 part 22	0.644		
	LTE Band 38	0.854		
	LTE Band 41	1.129		
	LTE Band 66	0.797		
	LTE Band 71	0.538		
	WLAN 2.4 GHz	0.291	DTS	
	RLAN 5.2 GHz	0.387	NII	
	RLAN 5.3 GHz	0.418		
	RLAN 5.6 GHz	0.419		
	RLAN 5.8 GHz	0.262		
	Bluetooth	0.049	DSS	

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

<Highest Reported Simultaneous SAR>

Exposure Position	Simultaneous Configuration	Highest Reported Simultaneous Transmission SAR (W/kg)	Limit (W/kg)	Verdict
Body(Hotspot) 1-g SAR (0 mm Gap)	LTE Band 2 + RLAN 5.6 GHz	1.552	1.6	Pass
Limb 1-g SAR (0 mm Gap)	LTE Band 2 + RLAN 5.6 GHz	1.552	4.0	Pass

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3.4 Test Uncertainty

3.4.1 Measurement uncertainly evaluation for SAR test (450MHz to 6GHz)

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Unc. u(xi)=a(xi)/qi	Ci (1g)	Ci (10g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	√3	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	√3	2.71	1	1	2.71	2.71	∞
detection limit	1	R	√3	0.58	1	1	0.58	0.58	∞
Probe isotropy	3.5	R	√3	2.02	0.71	0.71	1.43	1.43	∞
Hemispherical Isotropy	5.9	N	1	5.90	0.71	0.71	4.19	4.19	∞
Boundary effect	1	R	1.73	0.58	1	1	0.58	0.58	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
RF ambient and noise	3	R	√3	1.73	1	1	1.73	1.73	∞
Probe positioning errors	3.28	N	1	3.28	0.33	0.33	1.08	1.08	∞
Data processing errors	2.3	R	1	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	2.35	0.79	0.77	1.86	1.81	∞
Permitivity measurement	5.06	N	1	2.92	0.23	0.26	0.67	0.76	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1	1.44	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	√3	1.44	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	√3	1.67	0.25	0.25	0.42	0.42	∞
Repeatability of positioning the DUT or source against the phantom	2.7	N	1	2.70	2	2	5.40	5.40	∞
Uncertainty in accepted power	3	R	1	3.00	1	1	3.00	3.00	∞
Effect of operating mode on probe sensitivity	2.3	R	√3	1.33	1	1	1.33	1.33	∞
Variation in SAR due to drift in output of DUT	2.2	N	1	2.20	1	1	2.20	2.20	∞
Phantom deviation from target (ε',σ)	1.9	N	1	1.90	1	1	1.90	1.90	∞
SAR scaling	0	R	√3	0.00	1	1	0.00	0.00	∞
Combined uncertainty	/						11.94	11.94	
Expanded Uncertainty (95% Confidence interval)	/						23.89	23.88	

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

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3.4.2 Measurement uncertainly evaluation for system check

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Unc. u(xi)=a(xi)/qi	Ci (1g)	Ci (10 g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	1.73	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	1.73	2.72	1	1	2.72	2.72	∞
Detection limit	1	R	1.73	0.58	1	1	0.58	0.58	∞
Axial Isotropy	3.5	R	1.73	2.02	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	1.73	3.41	0.71	0.71	2.42	2.42	∞
Boundary effect	1	R	1.73	0.58	0.71	0.71	0.41	0.41	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
Noise	3	R	1.73	1.73	1	1	1.73	1.73	∞
Reflections	3	R	1.73	1.73	1	1	1.73	1.73	∞
Positioner Mechanical Tolerance	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Positioning with respect to Phantom Shell	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Data processing errors	2.3	R	1.73	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	4.07	0.79	0.77	3.22	3.13	∞
Permitivity measurement	5.06	N	1	5.06	0.23	0.26	1.16	1.32	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	1.73	1.68	0.25	0.25	0.42	0.42	∞
Distance between the radiating element of the DUT and the phantom medium	2.7	N	1	2.70	2	2	5.40	5.40	∞
Deviation of experimental antennas	4.5	N	1.73	2.60	1	1	2.60	2.60	∞
Other uncertainty contributions	2	R	1	2.00	1	1	2.00	2.00	∞
Uncertainty in accepted power	3	R	1.73	1.73	1	1	1.73	1.73	∞
Phantom deviation from target (ε',σ)	1.9	N	1	1.90	1	0.87	1.90	1.65	∞
u(ΔSAR)	/						11.89	11.85	
Expanded uncertainty (95% confidence interval)	/						23.79	23.70	

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4. Measurement System

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

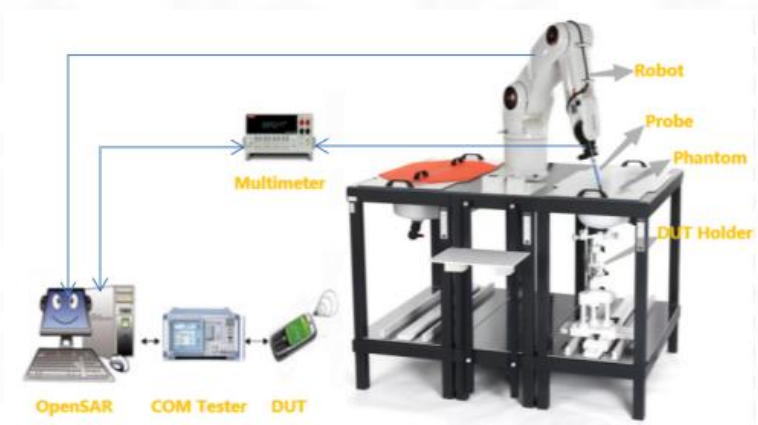
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 MVG SAR System

4.2.1 SAR system diagram



4.2.2 Robot

A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System
· It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
· Must be able to set the probe orthogonal of the surface of the phantom (±30°).
· Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

4.2.3 E-Field Probe

For the measurements the Specific Dosimetric E-Field Probe 0125-EPGO-445 with following specifications is used:

- Probe Length: 330 mm
- Length of Individual Dipoles:2mm
- 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%
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Axial Isotropy: <0.10 dB
- Spherical Isotropy:<0.10 dB
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°.

4.2.4 Phantoms

SAM Phantom

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

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SAM Phantom

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

TWIN SAM phantom			
	Mechanical	Electrical	
Overall thickness	2±0.2 mm(except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27 L		
Material	Fiberglass based		

ELLIPTICAL Phantom

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

ELLI Phantom

The shape of the phantom is an ellipse with length 600mm±5mm and width 400mm±5mm.
The phantom shell is made of low-loss and low-permittivity material, having loss tangent tanδ ≤ 0.05 and relative permittivity:
εr' ≤ 5 for f ≤ 3 GHz
3 ≤εr' ≤ 5 for f > 3 GHz
The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of ± 0.2 mm.

Technical & mechanical characteristics	
Shell thickness	2 mm ± 0.2 mm
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200mm
Permittivity	4.4
Loss tangent	0.017

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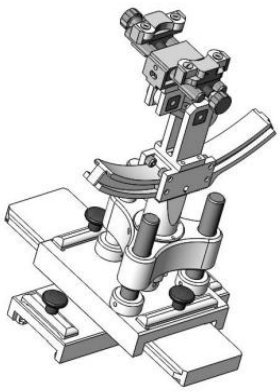
4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

(The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.)

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

4.2.6 Simulating Liquid

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

Head Liquid Depth	Body Liquid Depth

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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

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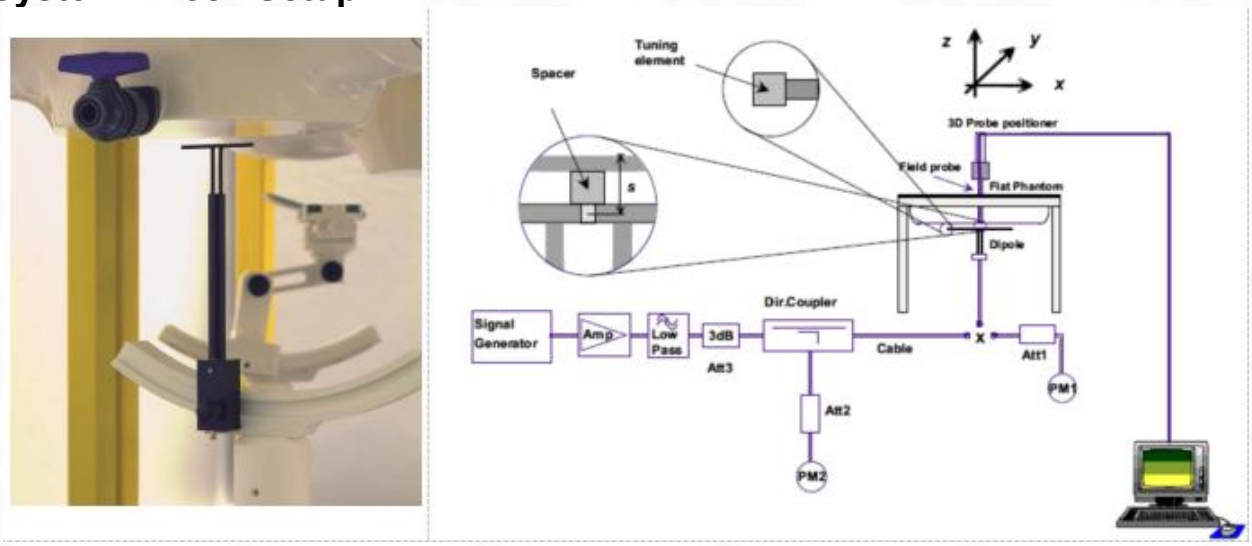
5. System Verification

5.1 Purpose of System Check

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

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

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

6.1 Head Exposure Conditions

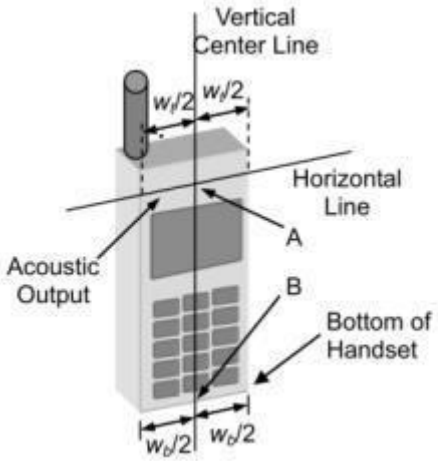
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

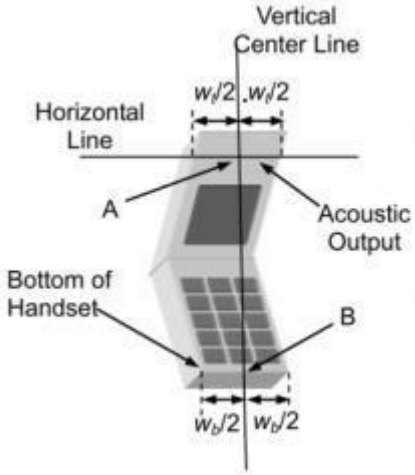
6.1.1 Two Imaginary Lines on the Handset

(a) The vertical center line passes through two points on the front side of the handset - the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical center line and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

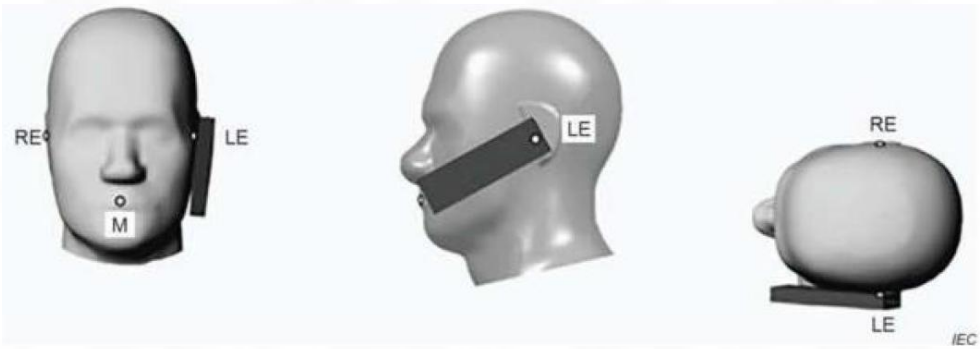




6.1.2 Two Imaginary Lines on the Handset

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Titled Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

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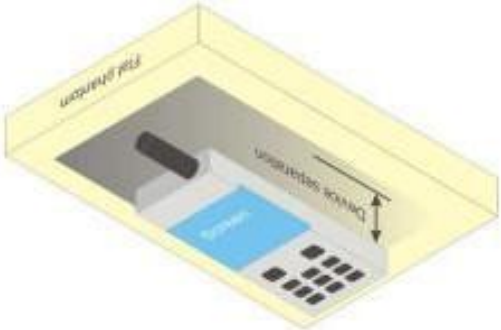
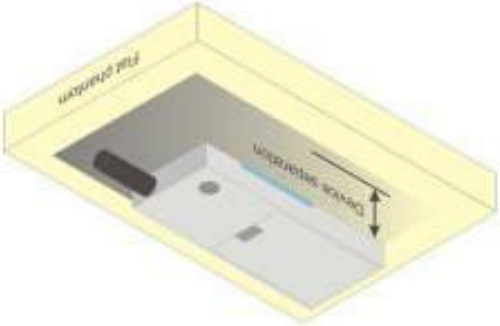
6.2 Body-worn Position Conditions

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

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

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





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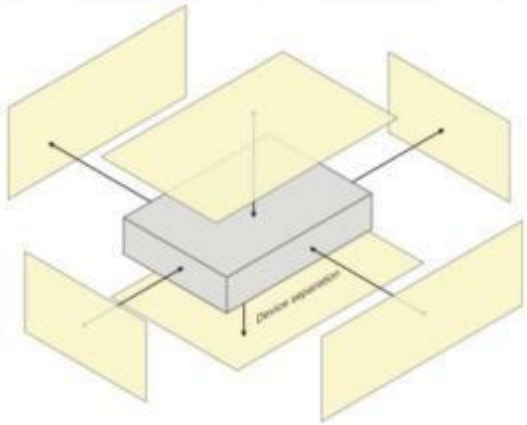
6.3 Hotspot Mode Exposure Position Conditions

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



6.4 Product Specific 10g Exposure Consideration

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

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

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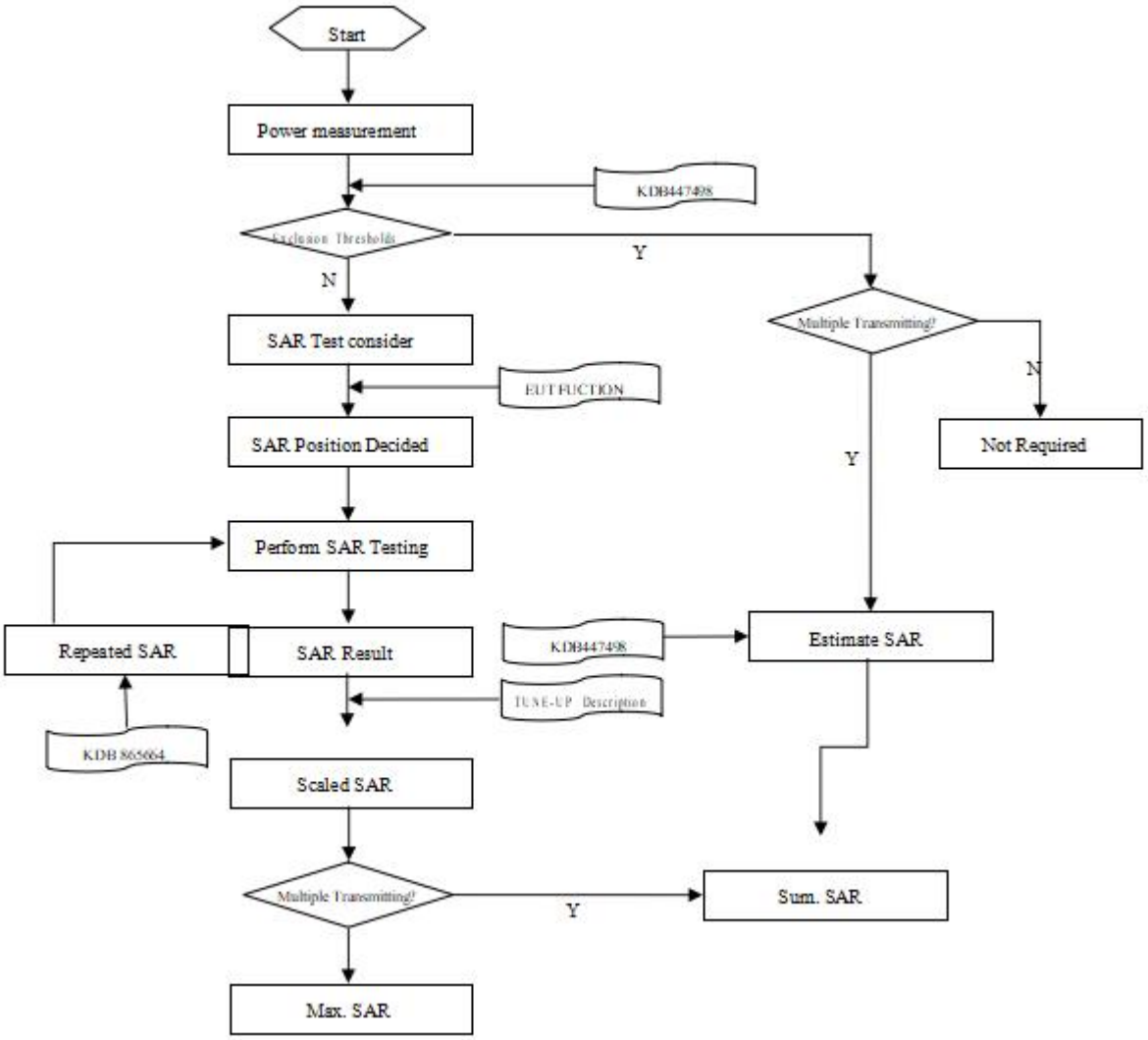
7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR



7.2 SAR Scan General Requirement

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

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½·δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface

b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.

c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.

d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

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

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

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8. Conducted RF Output Power

8.1 GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GPRS (GMSK)	1Tx slot	32.00	31.74	31.51	31.29	-9.03	22.71	22.48	22.26
	2Tx slots	32.00	31.59	31.40	31.18	-6.02	25.57	25.38	25.16
	3Tx slots	**31.50**	**31.42**	31.24	31.01	-4.26	**27.16**	26.98	26.75
	4Tx slots	30.50	30.10	29.91	29.63	-3.01	27.09	26.90	26.62
EGPRS (8PSK)	1Tx slot	26.50	26.18	26.05	25.84	-9.03	17.15	17.02	16.81
	2Tx slots	26.00	25.93	25.97	25.69	-6.02	19.91	19.95	19.67
	3Tx slots	26.00	25.93	25.83	25.60	-4.26	21.67	21.57	21.34
	4Tx slots	24.00	23.89	23.61	23.43	-3.01	20.88	20.60	20.42
Mode: GSM1900		**Maximum Tune-up(dBm)**	**Burst Average Power (dBm)**			Division Factors	**Frame-Average Power (dBm)**		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GPRS (GMSK)	1Tx slot	30.00	29.83	29.57	29.38	-9.03	20.80	20.54	20.35
	2Tx slots	30.00	29.76	29.54	29.35	-6.02	23.74	23.52	23.33
	3Tx slots	**30.00**	**29.69**	29.49	29.31	-4.26	**25.43**	25.23	25.05
	4Tx slots	28.50	27.89	28.00	27.94	-3.01	24.88	24.99	24.93
EGPRS (8PSK)	1Tx slot	27.00	26.25	26.60	26.35	-9.03	17.22	17.57	17.32
	2Tx slots	27.50	26.34	27.38	26.33	-6.02	20.32	21.36	20.31
	3Tx slots	27.50	26.27	26.39	27.13	-4.26	22.01	22.13	22.87
	4Tx slots	25.00	24.45	24.87	24.82	-3.01	21.44	21.86	21.81

Note:
1) Division Factors
To average the power, the division factor is as follows:
1Tx-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB
2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB
4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

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8.2 WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band II		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
			1852.4	1880.0	1907.6
RMC 12.2K		**22.50**	22.15	22.23	**22.42**
HSDPA	Subtest-1	20.50	20.00	20.03	20.23
	Subtest-2	20.50	20.01	20.03	20.21
	Subtest-3	20.50	19.97	20.03	20.22
	Subtest-4	20.50	20.00	20.03	20.24
HSUPA	Subtest-1	18.00	17.64	17.38	17.57
	Subtest-2	18.00	17.58	17.37	17.86
	Subtest-3	18.00	17.60	17.35	17.55
	Subtest-4	18.00	17.81	17.67	17.38
	Subtest-5	18.50	18.46	17.59	17.82
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		**22.50**	**22.07**	22.06	21.98
HSDPA	Subtest-1	20.00	19.69	19.84	19.65
	Subtest-2	20.00	19.70	19.86	19.65
	Subtest-3	20.00	19.68	19.85	19.65
	Subtest-4	20.00	19.70	19.85	19.63
HSUPA	Subtest-1	18.00	17.72	17.76	17.41
	Subtest-2	18.00	17.52	17.58	17.63
	Subtest-3	18.00	17.30	17.57	17.65
	Subtest-4	18.00	17.56	17.57	17.42
	Subtest-5	18.50	18.42	18.44	18.08
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		**23.00**	**22.70**	22.64	22.58
HSDPA	Subtest-1	21.00	20.63	20.51	20.35
	Subtest-2	21.00	20.61	20.51	20.36
	Subtest-3	21.00	20.63	20.51	20.34
	Subtest-4	21.00	20.63	20.51	20.37
HSUPA	Subtest-1	18.50	17.95	18.19	18.10
	Subtest-2	18.50	17.96	17.86	18.09
	Subtest-3	18.50	18.26	17.91	18.09
	Subtest-4	18.50	18.21	17.86	17.60
	Subtest-5	18.50	18.18	18.12	18.08
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤1/2dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.					

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8.3 LTE

Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
1.4MHz	QPSK	1	0	22.00	21.68	21.40	21.57
			2	22.00	21.79	21.53	21.68
			5	22.00	21.52	21.43	21.59
		3	0	22.00	21.68	21.52	21.70
			2	22.00	21.67	21.55	21.70
			3	22.00	21.65	21.51	21.66
		6	0	21.00	20.63	20.52	20.67
	16QAM	1	0	21.00	20.61	20.59	20.59
			2	21.00	20.70	20.70	20.67
			5	21.00	20.65	20.58	20.59
		3	0	21.00	20.74	20.45	20.82
			2	21.00	20.76	20.48	20.81
			3	21.00	20.69	20.50	20.82
		6	0	20.00	19.64	19.55	19.68
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	22.00	21.67	21.48	21.66
			7	22.00	21.81	21.66	21.79
			14	22.00	21.58	21.50	21.64
		8	0	21.00	20.64	20.53	20.66
			4	21.00	20.67	20.56	20.72
			7	21.00	20.59	20.52	20.68
		15	0	21.00	20.60	20.50	20.67
	16QAM	1	0	21.50	20.69	20.67	21.17
			7	21.50	20.84	20.83	21.33
			14	21.50	20.56	20.63	21.15
		8	0	20.00	19.71	19.52	19.82
			4	20.00	19.74	19.56	19.90
			7	20.00	19.65	19.49	19.83
		15	0	20.00	19.67	19.49	19.73
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	22.00	21.60	21.42	21.60
			13	22.00	21.55	21.61	21.75
			24	22.00	21.35	21.46	21.67
		12	0	21.00	20.56	20.58	20.76
			6	21.00	20.62	20.62	20.80
			13	21.00	20.56	20.58	20.77
		25	0	21.00	20.58	20.43	20.74
	16QAM	1	0	21.00	20.46	20.29	20.87
			13	21.50	20.52	20.50	21.06
			24	21.00	20.29	20.46	20.93
		12	0	20.00	19.62	19.49	19.80
			6	20.00	19.60	19.57	19.86
			13	20.00	19.53	19.52	19.82
		25	0	20.00	19.62	19.61	19.78

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LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
10MHz	QPSK	1	0	22.00	21.75	21.57	21.75
			25	22.00	21.82	21.78	21.95
			49	22.00	21.64	21.65	21.82
		25	0	21.00	20.71	20.76	20.95
			13	21.00	20.67	20.70	20.82
			25	21.00	20.75	20.69	20.86
		50	0	21.00	20.72	20.72	20.88
	16QAM	1	0	21.50	20.78	20.74	21.22
			25	21.50	20.83	20.96	21.48
			49	21.50	20.61	20.83	21.34
		25	0	20.50	19.80	19.80	20.02
			13	20.00	19.78	19.75	19.89
			25	20.00	19.87	19.76	19.93
		50	0	20.00	19.81	19.74	19.90
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	22.00	21.66	21.51	21.70
			38	22.00	21.65	21.69	21.83
			74	22.00	21.56	21.61	21.76
		36	0	21.00	20.71	20.78	20.95
			18	21.00	20.72	20.70	20.91
			39	21.00	20.83	20.76	20.86
		75	0	21.00	20.77	20.81	20.87
	16QAM	1	0	21.50	21.06	20.69	21.21
			38	21.50	21.03	20.86	21.32
			74	21.50	20.88	20.77	21.33
		36	0	20.00	19.69	19.75	19.90
			18	20.00	19.72	19.73	19.90
			39	20.00	19.78	19.77	19.89
		75	0	20.00	19.74	19.78	19.89
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	22.00	21.52	21.40	21.50
			50	**22.50**	21.87	21.94	**22.03**
			99	22.00	21.39	21.49	21.64
		50	0	21.00	20.60	20.78	20.75
			25	21.00	20.74	20.70	**20.81**
			50	21.00	20.75	20.77	20.67
		100	0	21.00	20.72	20.78	20.77
	16QAM	1	0	21.50	21.08	20.55	20.77
			50	21.50	21.36	21.07	21.24
			99	21.00	20.87	20.68	20.89
		50	0	20.00	19.62	19.81	19.79
			25	20.00	19.73	19.71	19.84
			50	20.00	19.75	19.74	19.70
		100	0	20.00	19.75	19.82	19.78

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Band 4

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
1.4MHz	QPSK	1	0	22.50	22.07	21.90	21.82
			2	22.50	22.18	21.99	21.94
			5	22.50	22.06	21.86	21.80
		3	0	22.50	22.03	21.96	21.77
			2	22.50	22.07	21.99	21.80
			3	22.50	22.01	21.95	21.76
		6	0	21.50	21.20	20.96	20.85
	16QAM	1	0	21.50	21.09	20.87	20.72
			2	21.50	21.21	20.95	20.83
			5	21.50	21.08	20.84	20.77
		3	0	21.50	20.87	21.11	20.77
			2	21.50	20.92	21.15	20.80
			3	21.50	20.89	21.11	20.76
		6	0	20.50	20.10	19.98	19.76
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	22.50	22.19	21.90	21.81
			7	22.50	22.25	22.06	21.96
			14	22.50	22.11	21.87	21.80
		8	0	21.50	21.08	20.93	20.83
			4	21.50	21.14	20.96	20.86
			7	21.50	21.09	20.91	20.86
		15	0	21.50	21.01	20.89	20.78
	16QAM	1	0	21.50	21.03	21.07	21.23
			7	21.50	21.13	21.20	21.38
			14	21.50	20.98	21.03	21.21
		8	0	20.50	20.05	19.89	19.95
			4	20.50	20.14	19.94	19.99
			7	20.50	20.08	19.90	19.98
		15	0	20.50	20.01	19.89	19.85
Bandwidth	Modulation	RB allocation	RB offset	22.50	19976	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	22.00	21.99	21.80	21.63
			13	22.50	22.12	21.95	21.76
			24	22.00	21.96	21.80	21.63
		12	0	21.00	20.96	20.93	20.71
			6	21.50	21.05	20.96	20.75
			13	21.50	21.01	20.90	20.69
		25	0	21.00	20.97	20.90	20.67
	16QAM	1	0	21.50	20.95	21.11	20.46
			13	21.50	21.05	21.19	20.57
			24	21.50	20.91	21.00	20.47
		12	0	20.00	19.88	19.94	19.69
			6	20.00	19.97	19.99	19.73
			13	20.00	19.94	19.93	19.68
		25	0	20.00	19.94	19.92	19.72

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LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
10MHz	QPSK	1	0	22.50	22.14	21.91	21.78
			25	22.50	22.27	22.08	21.92
			49	22.50	22.03	21.82	21.71
		25	0	21.00	20.97	20.96	20.67
			13	21.50	21.02	20.94	20.73
			25	21.50	21.06	20.93	20.68
		50	0	21.00	20.99	20.94	20.70
	16QAM	1	0	21.50	20.98	21.07	21.27
			25	21.50	21.14	21.22	21.31
			49	21.50	20.97	21.01	21.08
		25	0	20.50	20.03	19.99	19.75
			13	20.50	20.06	19.99	19.81
			25	20.50	20.09	19.96	19.74
		50	0	20.50	20.01	19.98	19.70
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	22.50	22.04	21.83	21.80
			38	22.50	22.06	21.90	21.84
			74	22.00	21.88	21.79	21.65
		36	0	21.50	21.17	21.01	20.92
			18	21.50	21.15	20.98	20.88
			39	21.50	21.08	21.02	20.83
		75	0	21.50	21.12	21.01	20.86
	16QAM	1	0	21.50	21.10	20.98	21.34
			38	21.50	21.19	21.07	21.29
			74	21.50	21.15	20.93	21.06
		36	0	20.50	20.01	19.96	19.88
			18	20.50	20.02	19.96	19.86
			39	20.50	19.99	20.02	19.80
		75	0	20.50	20.05	19.97	19.84
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	22.00	21.80	21.68	21.58
			50	**22.50**	**22.12**	22.08	22.01
			99	22.00	21.65	21.70	21.47
		50	0	21.00	20.91	20.94	20.76
			25	21.00	**20.95**	20.92	20.83
			50	21.50	20.93	21.00	20.79
		100	0	21.00	20.93	20.99	20.77
	16QAM	1	0	21.50	21.14	20.82	20.81
			50	22.00	21.53	21.26	21.25
			99	21.50	21.19	20.84	20.67
		50	0	20.00	19.91	19.97	19.78
			25	20.00	19.94	19.95	19.84
			50	20.50	19.91	20.05	19.81
		100	0	20.00	19.96	19.97	19.84

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Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.00	22.75	22.58	22.45
			2	23.00	22.90	22.68	22.56
			5	23.00	22.75	22.56	22.52
		3	0	23.00	22.73	22.66	22.46
			2	23.00	22.81	22.69	22.44
			3	23.00	22.74	22.64	22.37
		6	0	22.00	21.83	21.63	21.52
	16QAM	1	0	22.00	21.66	21.73	21.38
			2	22.00	21.78	21.83	21.46
			5	22.00	21.66	21.70	21.29
		3	0	22.00	21.72	21.57	21.57
			2	22.00	21.72	21.62	21.54
			3	22.00	21.68	21.61	21.47
		6	0	21.00	20.71	20.69	20.49
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.80	22.59	22.51
			7	23.00	22.90	22.75	22.61
			14	23.00	22.73	22.58	22.55
		8	0	22.00	21.75	21.55	21.48
			4	22.00	21.78	21.68	21.49
			7	22.00	21.68	21.61	21.45
		15	0	22.00	21.66	21.60	21.45
	16QAM	1	0	22.50	21.69	21.75	22.00
			7	22.50	21.83	21.89	22.08
			14	22.00	21.67	21.75	21.71
		8	0	21.00	20.76	20.59	20.67
			4	21.00	20.79	20.70	20.69
			7	21.00	20.74	20.64	20.62
		15	0	21.00	20.71	20.59	20.56

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.60	22.52	22.42
			13	23.00	22.76	22.60	22.55
			24	23.00	22.60	22.50	22.41
		12	0	22.00	21.64	21.57	21.50
			6	22.00	21.69	21.64	21.54
			13	22.00	21.62	21.57	21.42
		25	0	22.00	21.62	21.56	21.48
	16QAM	1	0	22.00	21.61	21.72	21.25
			13	22.00	21.76	21.86	21.40
			24	22.00	21.63	21.71	21.12
		12	0	21.00	20.64	20.60	20.52
			6	21.00	20.69	20.70	20.55
			13	21.00	20.62	20.63	20.43
		25	0	21.00	20.66	20.63	20.54

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.71	22.58	22.54
			25	**23.00**	**22.89**	22.77	22.60
			49	23.00	22.64	22.52	22.50
		25	0	22.00	21.67	21.58	21.64
			13	22.00	**21.69**	21.65	21.56
			25	22.00	21.64	21.60	21.51
		50	0	22.00	21.66	21.60	21.55
	16QAM	1	0	22.00	21.64	21.68	21.99
			25	22.50	21.80	21.87	22.16
			49	22.00	21.60	21.66	21.78
		25	0	21.00	20.76	20.64	20.73
			13	21.00	20.77	20.67	20.65
			25	21.00	20.74	20.63	20.60
		50	0	21.00	20.73	20.64	20.62

Band 7

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
5MHz	QPSK	1	0	22.50	21.45	21.85	22.05
			12	22.50	21.60	22.01	22.26
			24	22.50	21.47	21.90	22.16
		12	0	21.50	20.55	20.90	21.15
			6	21.50	20.58	20.97	21.15
			13	21.50	20.50	20.95	21.15
		25	0	21.50	20.50	20.89	21.14
	16QAM	1	0	21.50	20.48	21.04	20.90
			12	21.50	20.65	21.18	21.05
			24	21.50	20.52	21.05	20.89
		12	0	20.50	19.48	19.89	20.12
			6	20.50	19.48	19.95	20.16
			13	20.50	19.44	19.89	20.09
		25	0	20.50	19.49	19.87	20.17
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
10MHz	QPSK	1	0	22.50	21.50	21.94	22.13
			24	22.50	21.77	22.15	22.38
			49	22.50	21.67	21.99	22.31
		25	0	21.50	20.65	20.96	21.21
			12	21.50	20.59	20.98	21.22
			25	21.50	20.60	21.05	21.27
		50	0	21.50	20.61	21.02	21.24
	16QAM	1	0	22.00	20.49	21.05	21.59
			24	22.00	20.69	21.25	21.79
			49	22.00	20.64	21.08	21.53
		25	0	20.50	19.68	19.97	20.24
			12	20.50	19.60	19.98	20.24
			25	20.50	19.65	20.02	20.28
		50	0	20.50	19.60	19.99	20.21

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LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20825	21100	21375
					2507.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	22.50	21.44	21.86	22.01
			38	22.50	21.65	22.02	22.21
			74	22.50	21.66	21.94	22.23
		38	0	21.50	20.66	21.06	21.26
			18	21.50	20.67	21.15	21.29
			37	21.50	20.73	21.16	21.38
		75	0	21.50	20.72	21.07	21.30
	16QAM	1	0	21.50	20.72	21.02	21.48
			38	22.00	20.97	21.11	21.63
			74	21.50	20.97	21.04	21.44
		38	0	20.50	19.56	19.95	20.19
			18	20.50	19.60	20.03	20.24
			37	20.50	19.64	20.03	20.28
		75	0	20.50	19.64	20.02	20.23
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20850	21100	21350
					2510.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	22.00	21.21	21.65	21.86
			49	**22.50**	21.78	22.18	**22.33**
			99	22.00	21.49	21.78	21.99
		50	0	21.50	20.60	20.85	21.19
			25	21.50	20.63	20.99	**21.21**
			50	21.50	20.74	21.01	21.21
		100	0	21.50	20.68	20.95	21.23
	16QAM	1	0	21.50	20.72	20.79	21.10
			49	22.00	21.28	21.22	21.51
			99	21.50	21.00	20.87	21.08
		50	0	20.50	19.59	19.80	20.14
			25	20.50	19.60	19.95	20.20
			50	20.50	19.68	19.94	20.17
		100	0	20.50	19.66	19.92	20.20

Band 12

LTE-FDD Band 12				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173
					699.7MHz	707.5MHz	715.3MHz
1.4MHz	QPSK	1	0	23.00	22.81	22.63	22.57
			2	23.00	22.98	22.76	22.71
			5	23.00	22.87	22.64	22.62
		3	0	23.00	22.88	22.73	22.68
			2	23.00	22.89	22.79	22.74
			3	23.00	22.87	22.75	22.69
		6	0	22.00	21.83	21.73	21.70
	16QAM	1	0	22.00	21.75	21.81	21.54
			2	22.00	21.87	21.93	21.66
			5	22.00	21.83	21.80	21.59
		3	0	22.00	21.94	21.70	21.81
			2	22.00	21.87	21.72	21.88
			3	22.00	21.88	21.71	21.82
		6	0	21.00	20.79	20.74	20.68

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	23.00	22.95	22.73	22.73
			7	23.00	22.98	22.85	22.78
			14	23.00	22.79	22.68	22.69
		8	0	22.00	21.86	21.74	21.71
			4	22.00	21.87	21.75	21.73
			7	22.00	21.82	21.72	21.68
		15	0	22.00	21.81	21.71	21.70
	16QAM	1	0	22.50	21.86	21.90	22.15
			7	22.50	21.97	22.00	22.22
			14	22.50	21.77	21.85	22.11
		8	0	21.00	20.89	20.69	20.82
			4	21.00	20.92	20.72	20.85
			7	21.00	20.85	20.68	20.79
		15	0	21.00	20.85	20.67	20.70
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	23.00	22.81	22.68	22.59
			13	23.00	22.82	22.73	22.74
			24	23.00	22.71	22.57	22.59
		12	0	22.00	21.89	21.70	21.68
			6	22.00	21.83	21.75	21.69
			13	22.00	21.77	21.79	21.61
		25	0	22.00	21.81	21.74	21.61
	16QAM	1	0	22.00	21.81	21.89	21.44
			13	22.00	21.89	21.98	21.55
			24	22.00	21.78	21.85	21.43
		12	0	21.00	20.84	20.70	20.61
			6	21.00	20.79	20.77	20.66
			13	21.00	20.69	20.81	20.59
		25	0	21.00	20.83	20.74	20.65
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	23.00	22.80	22.69	22.64
			25	**23.00**	**22.98**	22.83	22.71
			49	23.00	22.71	22.61	22.62
		25	0	22.00	**21.88**	21.72	21.60
			13	22.00	21.77	21.73	21.71
			25	22.00	21.85	21.81	21.62
		50	0	22.00	21.87	21.78	21.61
	16QAM	1	0	22.50	21.76	21.84	22.17
			25	22.50	21.92	22.02	22.29
			49	22.50	21.67	21.73	22.07
		25	0	21.00	20.97	20.77	20.65
			13	21.00	20.85	20.79	20.74
			25	21.00	20.94	20.83	20.62
		50	0	21.00	20.89	20.79	20.61

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Band 13

LTE-FDD Band 13				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255
					779.5MHz	782.0MHz	784.5MHz
5MHz	QPSK	1	0	23.00	22.69	22.55	22.62
			13	23.00	22.79	22.75	22.76
			24	23.00	22.69	22.61	22.59
		12	0	22.00	21.86	21.68	21.63
			6	22.00	21.86	21.80	21.76
			13	22.00	21.91	21.85	21.65
		25	0	22.00	21.90	21.76	21.64
	16QAM	1	0	22.00	21.69	21.89	21.52
			13	22.50	21.96	22.02	21.60
			24	22.00	21.80	21.81	21.48
		12	0	21.00	20.81	20.71	20.55
			6	21.00	20.82	20.85	20.72
			13	21.00	20.83	20.82	20.62
		25	0	21.00	20.89	20.77	20.64

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230
					782.0MHz
10MHz	QPSK	1	0	23.00	22.81
			25	**23.00**	**22.89**
			49	23.00	22.72
		25	0	22.00	21.82
			13	22.00	21.84
			25	22.00	**21.88**
		50	0	22.00	21.86
	16QAM	1	0	22.50	22.13
			25	22.50	22.44
			49	22.50	22.21
		25	0	21.00	20.82
			13	21.00	20.88
			25	21.00	20.92
		50	0	21.00	20.87

Band 14

LTE-FDD Band 14				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23305	23330	23355
					790.5MHz	793.0MHz	795.5MHz
5MHz	QPSK	1	0	23.00	22.55	22.59	22.59
			13	23.00	22.69	22.68	22.72
			24	23.00	22.53	22.53	22.53
		12	0	22.00	21.72	21.71	21.69
			6	22.00	21.76	21.74	21.74
			13	22.00	21.68	21.70	21.73
		25	0	22.00	21.73	21.75	21.71
	16QAM	1	0	22.00	21.87	21.51	21.72
			13	22.50	22.00	21.61	21.85
			24	22.00	21.88	21.53	21.72
		12	0	21.00	20.74	20.73	20.70
			6	21.00	20.78	20.76	20.73
			13	21.00	20.70	20.72	20.71
		25	0	21.00	20.69	20.79	20.75

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23330
					793.0MHz
10MHz	QPSK	1	0	23.00	22.67
			25	**23.00**	**22.75**
			49	23.00	22.63
		25	0	22.00	**21.81**
			13	22.00	21.78
			25	22.00	21.79
		50	0	22.00	21.81
	16QAM	1	0	22.50	22.23
			25	22.50	22.38
			49	22.50	22.23
		25	0	21.00	20.88
			13	21.00	20.81
			25	21.00	20.85
		50	0	21.00	20.85

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
					706.5MHz	710MHz	713.5MHz
5MHz	QPSK	1	0	23.00	22.54	22.54	22.52
			13	23.00	22.70	22.67	22.70
			24	23.00	22.52	22.53	22.51
		12	0	22.00	21.73	21.54	21.64
			6	22.00	21.70	21.69	21.65
			13	22.00	21.68	21.62	21.56
		25	0	22.00	21.69	21.59	21.60
	16QAM	1	0	22.00	21.46	21.69	21.75
			13	22.00	21.59	21.76	21.87
			24	22.00	21.45	21.59	21.73
		12	0	21.00	20.66	20.53	20.60
			6	21.00	20.72	20.65	20.65
			13	21.00	20.69	20.62	20.57
		25	0	21.00	20.77	20.61	20.58
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	23.00	22.58	22.64	22.65
			25	**23.00**	22.76	22.79	**22.82**
			49	23.00	22.58	22.62	22.63
		25	0	22.00	21.59	21.59	21.51
			13	22.00	21.64	21.65	**21.62**
			25	22.00	21.63	21.60	21.57
		50	0	22.00	21.61	21.61	21.55
	16QAM	1	0	22.50	21.79	22.21	21.65
			25	22.50	21.95	22.25	21.76
			49	22.50	21.73	22.07	21.61
		25	0	21.00	20.71	20.61	20.62
			13	21.00	20.72	20.69	20.69
			25	21.00	20.68	20.64	20.63
		50	0	21.00	20.64	20.63	20.54

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Band 25

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26047	26365	26683
					1850.7MHz	1882.5MHz	1914.3MHz
1.4MHz	QPSK	1	0	22.00	21.62	21.63	21.88
			2	22.50	21.73	21.74	22.02
			5	22.00	21.65	21.65	21.89
		3	0	22.00	21.74	21.73	21.92
			2	22.00	21.78	21.81	21.95
			3	22.00	21.72	21.76	21.92
		6	0	21.00	20.73	20.77	20.94
	16QAM	1	0	21.00	20.85	20.68	20.87
			2	21.00	20.90	20.77	20.98
			5	21.00	20.78	20.67	20.91
		3	0	21.00	20.70	20.93	20.92
			2	21.00	20.74	20.98	20.92
			3	21.00	20.73	20.93	20.90
		6	0	20.00	19.77	19.77	19.88
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365	26675
					1851.5MHz	1882.5MHz	1913.5MHz
3MHz	QPSK	1	0	22.00	21.76	21.70	21.91
			7	22.50	21.90	21.89	22.09
			14	22.00	21.77	21.75	21.90
		8	0	21.50	20.74	20.75	21.01
			4	21.50	20.76	20.80	21.00
			7	21.00	20.74	20.73	20.89
		15	0	21.00	20.70	20.73	20.90
	16QAM	1	0	21.50	20.78	20.91	21.42
			7	22.00	20.92	21.05	21.54
			14	21.50	20.77	20.88	21.33
		8	0	20.50	19.83	19.75	20.10
			4	20.50	19.83	19.79	20.13
			7	20.50	19.78	19.73	20.09
		15	0	20.50	19.78	19.73	20.00
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365	26665
					1852.5MHz	1882.5MHz	1912.5MHz
5MHz	QPSK	1	0	22.00	21.66	21.69	21.83
			13	22.00	21.80	21.85	21.99
			24	22.00	21.67	21.69	21.80
		12	0	21.00	20.75	20.78	20.89
			6	21.00	20.81	20.85	20.99
			13	21.00	20.80	20.78	20.87
		25	0	21.00	20.73	20.79	20.86
	16QAM	1	0	21.00	20.78	20.91	20.67
			13	21.50	20.92	21.10	20.82
			24	21.00	20.75	20.94	20.68
		12	0	20.00	19.70	19.81	19.86
			6	20.00	19.76	19.87	19.98
			13	20.00	19.76	19.83	19.84
		25	0	20.00	19.76	19.80	19.91

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LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26090	26365	26640
					1855.0MHz	1882.5MHz	1910.0MHz
10MHz	QPSK	1	0	22.00	21.69	21.71	21.82
			25	22.50	21.92	21.91	22.05
			49	22.00	21.74	21.73	21.87
		25	0	21.00	20.71	20.81	20.93
			13	21.00	20.76	20.79	20.93
			25	21.00	20.81	20.80	20.93
		50	0	21.00	20.82	20.83	20.92
	16QAM	1	0	21.50	20.72	20.87	21.40
			25	22.00	20.89	21.08	21.57
			49	21.50	20.74	20.89	21.34
		25	0	20.50	19.81	19.85	20.02
			13	20.50	19.83	19.82	20.02
			25	20.50	19.95	19.85	20.00
		50	0	20.00	19.81	19.85	19.94
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26115	26365	26615
					1857.5MHz	1882.5MHz	1907.5MHz
15MHz	QPSK	1	0	22.00	21.61	21.65	21.76
			38	22.00	21.76	21.76	21.88
			74	22.00	21.63	21.73	21.83
		36	0	21.50	20.73	20.83	21.06
			18	21.00	20.75	20.75	20.96
			39	21.50	20.88	20.86	21.02
		75	0	21.50	20.82	20.88	21.04
	16QAM	1	0	21.50	20.94	20.79	21.23
			38	21.50	21.09	20.92	21.43
			74	21.50	20.96	20.88	21.33
		36	0	20.50	19.67	19.82	20.05
			18	20.00	19.73	19.81	19.98
			39	20.50	19.78	19.83	20.04
		75	0	20.50	19.77	19.87	20.02
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
					1860.0MHz	1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	22.00	21.43	21.45	21.54
			50	**22.50**	21.87	21.91	**22.04**
			99	22.00	21.40	21.55	21.64
		50	0	21.50	20.62	20.85	**21.00**
			25	21.00	20.73	20.80	20.89
			50	21.00	20.81	20.86	20.93
		100	0	21.00	20.72	20.88	20.93
	16QAM	1	0	21.00	20.93	20.61	20.78
			50	21.50	21.37	21.11	21.28
			99	21.00	20.88	20.73	20.88
		50	0	20.50	19.58	19.84	20.00
			25	20.00	19.75	19.82	19.91
			50	20.00	19.81	19.92	19.92
		100	0	20.00	19.73	19.87	19.98

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Band 26 Part 90

LTE-FDD Band 26 Part 90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7MHz	819.0MHz	823.3MHz
1.4MHz	QPSK	1	0	23.00	22.53	22.55	22.51
			2	23.00	22.68	22.67	22.61
			5	23.00	22.56	22.54	22.55
		3	0	23.00	22.72	22.62	22.57
			2	23.00	22.67	22.65	22.60
			3	23.00	22.65	22.62	22.56
		6	0	22.00	21.62	21.58	21.60
	16QAM	1	0	22.00	21.51	21.51	21.67
			2	22.00	21.62	21.66	21.75
			5	22.00	21.56	21.58	21.66
		3	0	22.00	21.76	21.66	21.50
			2	22.00	21.83	21.66	21.52
			3	22.00	21.81	21.64	21.51
		6	0	21.00	20.67	20.56	20.59
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740	26775
					815.5MHz	819.0MHz	822.5MHz
3MHz	QPSK	1	0	23.00	22.67	22.59	22.57
			7	23.00	22.83	22.74	22.72
			14	23.00	22.71	22.55	22.58
		8	0	22.00	21.65	21.59	21.56
			4	22.00	21.71	21.64	21.59
			7	22.00	21.65	21.59	21.59
		15	0	22.00	21.63	21.59	21.56
	16QAM	1	0	22.50	21.64	21.78	22.07
			7	22.50	21.83	21.93	22.19
			14	22.50	21.67	21.72	22.02
		8	0	21.00	20.74	20.64	20.72
			4	21.00	20.81	20.67	20.78
			7	21.00	20.75	20.62	20.75
		15	0	21.00	20.72	20.61	20.65

LTE-FDD Band 26 Part 90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765
					816.5MHz	819.0MHz	821.5MHz
5MHz	QPSK	1	0	23.00	22.49	22.54	22.48
			13	23.00	22.72	22.62	22.62
			24	23.00	22.51	22.47	22.52
		12	0	22.00	21.60	21.56	21.59
			6	22.00	21.72	21.65	21.61
			13	22.00	21.64	21.57	21.57
		25	0	22.00	21.63	21.60	21.57
	16QAM	1	0	22.00	21.62	21.79	21.37
			13	22.00	21.79	21.90	21.43
			24	22.00	21.62	21.69	21.34
		12	0	21.00	20.59	20.68	20.63
			6	21.00	20.74	20.72	20.63
			13	21.00	20.65	20.63	20.55
		25	0	21.00	20.72	20.63	20.66

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740
					819.0MHz
10MHz	QPSK	1	0	23.00	22.59
			25	**23.00**	**22.76**
			49	23.00	22.58
		25	0	22.00	**21.66**
			13	22.00	21.65
			25	22.00	21.65
		50	0	22.00	21.67
	16QAM	1	0	22.00	21.77
			25	22.00	21.96
			49	22.00	21.72
		25	0	21.00	20.75
			13	21.00	20.73
			25	21.00	20.69
		50	0	21.00	20.69

Band 26 Part 22

LTE-FDD Band 26 Part 22				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.00	22.54	22.44	22.37
			2	23.00	22.67	22.49	22.51
			5	23.00	22.56	22.41	22.49
		3	0	23.00	22.66	22.53	22.37
			2	23.00	22.65	22.56	22.38
			3	23.00	22.59	22.51	22.31
		6	0	22.00	21.66	21.48	21.43
	16QAM	1	0	22.00	21.70	21.39	21.32
			2	22.00	21.79	21.50	21.39
			5	22.00	21.68	21.42	21.31
		3	0	22.00	21.56	21.70	21.39
			2	22.00	21.65	21.73	21.33
			3	22.00	21.54	21.69	21.27
		6	0	21.00	20.66	20.54	20.34
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.70	22.50	22.39
			7	23.00	22.77	22.64	22.53
			14	23.00	22.56	22.46	22.50
		8	0	22.00	21.58	21.49	21.41
			4	22.00	21.58	21.53	21.44
			7	22.00	21.55	21.47	21.41
		15	0	22.00	21.53	21.49	21.39
	16QAM	1	0	22.00	21.60	21.67	21.94
			7	22.50	21.69	21.79	22.03
			14	22.00	21.51	21.62	21.63
		8	0	21.00	20.64	20.52	20.59
			4	21.00	20.67	20.55	20.63
			7	21.00	20.61	20.49	20.57
		15	0	21.00	20.60	20.50	20.49

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LTE-FDD Band 26 Part 22				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26815	26915	27015
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.51	22.37	22.33
			13	23.00	22.58	22.53	22.45
			24	22.50	22.46	22.34	22.32
		12	0	22.00	21.56	21.48	21.44
			6	22.00	21.56	21.54	21.43
			13	21.50	21.48	21.46	21.33
		25	0	21.50	21.46	21.48	21.40
	16QAM	1	0	22.00	21.55	21.68	21.17
			13	22.00	21.59	21.75	21.30
			24	22.00	21.52	21.59	21.01
		12	0	21.00	20.52	20.53	20.43
			6	21.00	20.55	20.61	20.45
			13	20.50	20.49	20.48	20.34
		25	0	21.00	20.54	20.53	20.47
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915	26990
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.62	22.46	22.40
			25	23.00	22.83	22.62	22.69
			49	23.00	22.56	22.43	22.44
		25	0	22.00	21.57	21.56	21.59
			13	22.00	21.55	21.53	21.50
			25	22.00	21.57	21.45	21.44
		50	0	22.00	21.60	21.50	21.51
	16QAM	1	0	22.00	21.55	21.61	21.86
			25	22.50	21.67	21.78	22.07
			49	22.00	21.52	21.58	21.75
		25	0	21.00	20.66	20.62	20.67
			13	21.00	20.68	20.60	20.58
			25	21.00	20.68	20.53	20.53
		50	0	21.00	20.61	20.56	20.57
LTE-FDD Band 26 Part 22				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26765	26865	26965
					821.5MHz	831.5MHz	841.5MHz
15MHz	QPSK	1	0	22.50	22.46	22.41	22.32
			38	**23.00**	**22.54**	22.49	22.42
			74	22.50	22.33	22.34	22.28
		36	0	22.00	**21.62**	21.56	21.49
			18	22.00	21.62	21.56	21.55
			39	22.00	21.58	21.46	21.45
		75	0	22.00	21.62	21.53	21.48
	16QAM	1	0	22.00	21.71	21.55	21.84
			38	22.00	21.85	21.68	21.86
			74	22.00	21.69	21.48	21.69
		36	0	21.00	20.59	20.56	20.51
			18	21.00	20.61	20.56	20.53
			39	21.00	20.58	20.45	20.45
		75	0	21.00	20.60	20.56	20.50

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Band 38

LTE-TDD Band 38				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		37775	38000	38225
					2572.5MHz	2595.0MHz	2617.5MHz
5MHz	QPSK	1	0	22.00	21.35	21.30	21.80
			12	22.50	21.42	21.62	22.09
			24	22.00	21.28	21.36	21.93
		12	0	21.00	20.52	20.50	20.84
			6	21.00	20.44	20.63	20.95
			13	21.00	20.54	20.59	20.88
		25	0	21.00	20.50	20.60	20.84
	16QAM	1	0	21.00	20.43	20.24	20.97
			12	21.00	20.52	20.60	20.91
			24	21.00	20.55	20.57	20.70
		12	0	20.00	19.47	19.51	19.71
			6	20.00	19.39	19.44	19.83
			13	20.00	19.44	19.39	19.86
		25	0	20.00	19.41	19.59	19.89
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37800	38000	38200
					2575.00MHz	2595.00MHz	2615.00MHz
10MHz	QPSK	1	0	22.00	21.48	21.53	21.68
			24	22.50	21.67	21.75	22.15
			49	22.50	21.48	21.61	22.11
		25	0	21.00	20.49	20.66	20.77
			12	21.00	20.50	20.67	20.84
			25	21.00	20.48	20.55	20.95
		50	0	21.00	20.47	20.54	20.79
	16QAM	1	0	21.00	20.38	20.34	20.71
			24	21.00	20.85	20.47	20.99
			49	21.00	20.41	20.41	20.90
		25	0	20.00	19.45	19.61	19.74
			12	20.00	19.49	19.55	19.85
			25	20.00	19.50	19.62	19.89
		50	0	20.00	19.53	19.51	19.79

LTE-TDD Band 38				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	22.00	21.53	21.48	21.62
			38	22.00	21.61	21.58	21.84
			74	22.00	21.56	21.54	21.94
		38	0	21.00	20.56	20.59	20.86
			18	21.00	20.67	20.70	20.89
			37	21.50	20.60	20.64	21.06
		75	0	21.50	20.66	20.64	21.01
	16QAM	1	0	21.00	20.20	20.24	20.62
			38	21.00	20.33	20.41	20.67
			74	21.00	20.19	20.30	20.66
		38	0	20.00	19.57	19.56	19.71
			18	20.00	19.62	19.52	19.82
			37	20.00	19.48	19.54	19.90
		75	0	20.00	19.50	19.62	19.86

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37850	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	21.50	21.15	21.21	21.33
			49	**22.00**	21.81	21.73	**21.88**
			99	22.00	21.13	21.54	21.88
		50	0	21.00	20.50	20.55	20.57
			25	21.00	20.58	20.56	20.75
			50	21.00	20.56	20.65	**20.89**
		100	0	21.00	20.59	20.54	20.75
	16QAM	1	0	21.00	20.28	20.17	20.61
			49	21.00	20.75	20.31	20.89
			99	21.00	19.74	20.29	20.68
		50	0	20.00	19.44	19.46	19.64
			25	20.00	19.60	19.67	19.80
			50	20.00	19.44	19.66	19.80
		100	0	20.00	19.51	19.62	19.77

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39675	40620	41565
					2498.5MHz	2593.0MHz	2687.5MHz
5MHz	QPSK	1	0	23.50	20.64	21.52	23.10
			13	23.50	20.84	21.60	23.38
			24	23.50	20.71	21.50	23.18
		12	0	22.50	19.72	20.50	22.13
			6	22.50	19.83	20.59	22.19
			13	22.50	19.84	20.49	22.04
		25	0	22.50	19.82	20.53	22.12
	16QAM	1	0	22.50	19.76	20.48	22.04
			13	22.50	19.88	20.65	22.04
			24	22.50	19.96	20.54	22.15
		12	0	21.00	18.71	19.50	20.99
			6	21.50	18.83	19.42	21.01
			13	21.00	18.79	19.43	20.97
		25	0	21.00	18.77	19.61	20.99
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39700	40620	41540
					2501.0MHz	2593.0MHz	2685.0MHz
10MHz	QPSK	1	0	23.50	20.75	21.68	23.27
			25	23.50	21.14	21.94	23.41
			49	23.50	20.92	21.62	23.17
		25	0	22.50	19.80	20.54	22.19
			13	22.50	19.97	20.58	22.20
			25	22.50	19.98	20.62	22.15
		50	0	22.50	19.86	20.58	22.16
	16QAM	1	0	22.50	19.98	20.41	22.11
			25	22.50	20.05	20.59	22.10
			49	22.00	19.86	20.46	21.85
		25	0	21.50	18.78	19.53	21.15
			13	21.50	18.90	19.59	21.13
			25	21.50	18.93	19.68	21.00
		50	0	21.50	18.83	19.62	21.03

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LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39725	40620	41515
					2503.5MHz	2593.0MHz	2682.5MHz
15MHz	QPSK	1	0	23.50	20.77	21.44	23.25
			38	23.50	20.96	21.60	23.28
			74	23.50	20.93	21.53	23.07
		36	0	22.50	19.85	20.61	22.42
			18	22.50	19.96	20.60	22.33
			39	22.50	20.02	20.69	22.27
		75	0	22.50	19.95	20.73	22.32
	16QAM	1	0	22.50	20.04	20.23	22.05
			38	22.50	19.85	20.44	22.15
			74	22.00	20.18	20.36	21.96
		36	0	21.50	18.76	19.58	21.22
			18	21.50	18.82	19.61	21.22
			39	21.50	18.91	19.67	21.11
		75	0	21.50	18.85	19.63	21.16
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490
					2506.0MHz	2593.0MHz	2680.0MHz
20MHz	QPSK	1	0	23.50	20.44	21.25	23.24
			50	**24.00**	21.15	21.71	**23.50**
			99	23.00	20.71	21.47	22.98
		50	0	22.50	19.76	20.56	**22.20**
			25	22.50	19.93	20.56	22.15
			50	22.50	20.05	20.60	22.03
		100	0	22.50	19.86	20.53	22.18
	16QAM	1	0	22.00	19.68	19.97	21.84
			50	23.00	20.06	20.80	22.50
			99	22.00	19.33	20.22	21.83
		50	0	21.50	18.75	19.43	21.12
			25	21.50	18.86	19.68	21.09
			50	21.00	19.03	19.67	20.97
		100	0	21.50	18.88	19.52	21.09

Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665
					1710.7MHz	1745.0MHz	1779.3MHz
1.4MHz	QPSK	1	0	22.50	22.07	21.92	22.07
			2	22.50	22.26	22.11	22.29
			5	22.50	22.05	21.94	22.06
		3	0	22.50	22.07	21.99	22.14
			2	22.50	22.01	21.98	22.09
			3	22.50	22.02	22.00	22.11
		6	0	21.50	21.17	20.95	21.13
	16QAM	1	0	21.50	20.94	21.22	20.97
			2	21.50	21.10	21.42	21.15
			5	21.50	20.90	21.18	20.96
		3	0	21.50	21.07	21.00	20.94
			2	21.50	21.02	20.97	20.91
			3	21.50	20.99	21.04	20.93
		6	0	20.50	20.13	19.96	20.14

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657
					1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	22.50	22.19	21.95	22.04
			7	22.50	22.16	21.89	21.96
			14	22.50	22.16	21.97	22.03
		8	0	21.50	21.10	20.86	21.08
			4	21.50	21.12	20.90	21.10
			7	21.50	21.07	20.83	21.04
		15	0	21.50	20.98	20.84	21.03
	16QAM	1	0	21.50	21.29	20.80	21.04
			7	21.50	21.20	20.72	20.99
			14	21.50	21.30	20.78	21.06
		8	0	20.50	20.06	19.84	20.06
			4	20.50	20.12	19.85	20.08
			7	20.50	20.05	19.81	20.04
		15	0	20.50	20.00	19.86	19.98
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	22.50	22.01	21.77	21.81
			13	22.50	22.15	21.90	21.98
			24	22.00	21.95	21.77	21.89
		12	0	21.00	20.96	20.84	20.93
			6	21.50	21.04	20.90	21.01
			13	21.50	20.98	20.83	21.02
		25	0	21.00	20.98	20.84	20.96
	16QAM	1	0	21.50	20.85	21.16	20.94
			13	21.50	20.94	21.27	21.10
			24	21.50	20.78	21.10	20.98
		12	0	20.00	19.95	19.81	19.94
			6	20.50	20.05	19.89	19.99
			13	20.00	19.96	19.84	19.97
		25	0	20.50	20.02	19.84	19.91
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	22.50	22.16	21.93	21.79
			25	22.50	22.20	22.02	21.95
			49	22.50	22.07	21.91	21.97
		25	0	21.50	21.01	20.87	21.00
			13	21.50	21.00	20.85	20.96
			25	21.50	21.06	20.85	20.98
		50	0	21.00	20.99	20.87	20.95
	16QAM	1	0	21.50	21.26	20.80	20.85
			25	21.50	21.34	20.88	21.04
			49	21.50	21.29	20.73	20.98
		25	0	20.50	19.99	19.95	20.02
			13	20.50	20.00	19.91	20.02
			25	20.50	20.05	19.90	20.05
		50	0	20.00	19.99	19.85	19.95

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LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132047	132322	132597
					1717.5MHz	1745.0MHz	1772.5MHz
15MHz	QPSK	1	0	21.50	21.09	20.91	21.01
			38	21.50	21.09	20.89	21.03
			74	21.50	21.11	20.89	21.03
		36	0	21.50	21.12	20.87	21.02
			18	21.50	21.10	20.89	21.02
			39	21.50	21.10	20.91	21.04
		75	0	21.50	21.10	20.88	21.01
	16QAM	1	0	21.50	21.12	20.90	21.01
			38	21.50	21.10	20.91	21.02
			74	21.50	21.13	20.91	21.02
		36	0	21.50	21.13	20.92	21.01
			18	21.50	21.13	20.90	21.02
			39	21.50	21.14	20.90	21.02
		75	0	21.50	21.15	20.89	21.04
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	22.00	21.87	21.61	21.47
			50	**22.50**	**22.14**	21.94	21.85
			99	22.00	21.77	21.55	21.72
		50	0	21.00	20.89	20.76	20.94
			25	21.00	**20.95**	20.83	20.87
			50	21.00	20.95	20.85	20.83
		100	0	21.00	20.94	20.82	20.91
	16QAM	1	0	21.50	20.63	21.00	20.43
			50	21.50	20.92	21.27	20.96
			99	21.00	20.59	20.88	20.73
		50	0	20.00	19.89	19.79	19.94
			25	20.00	19.95	19.84	19.87
			50	20.00	19.97	19.85	19.81
		100	0	20.00	19.98	19.82	19.94

Band 71

LTE-FDD Band 71				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		133147	133297	133447
					665.5MHz	680.5MHz	695.5MHz
5MHz	QPSK	1	0	23.00	22.70	22.63	22.60
			13	23.00	22.79	22.78	22.60
			24	23.00	22.75	22.65	22.25
		12	0	22.00	21.68	21.78	21.74
			6	22.00	21.78	21.78	21.74
			13	22.00	21.80	21.76	21.56
		25	0	22.00	21.74	21.82	21.52
	16QAM	1	0	22.50	21.59	22.03	21.48
			13	22.50	21.75	22.19	21.48
			24	22.50	21.66	22.04	21.30
		12	0	21.00	20.68	20.77	20.37
			6	21.00	20.84	20.75	20.40
			13	21.00	20.84	20.75	20.20
		25	0	21.00	20.85	20.79	20.23

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Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297	133422
					668.0MHz	680.5MHz	693.0MHz
10MHz	QPSK	1	0	23.00	22.79	22.49	22.07
			25	23.00	22.91	22.38	22.27
			49	23.00	22.80	22.24	22.21
		25	0	22.00	21.73	21.39	21.33
			13	22.00	21.82	21.29	21.25
			25	22.00	21.92	21.32	21.09
		50	0	22.00	21.77	21.34	21.18
	16QAM	1	0	22.00	21.60	21.18	21.12
			25	22.00	21.84	21.29	21.33
			49	22.00	21.74	21.15	21.26
		25	0	20.50	20.32	20.46	20.38
			13	20.50	20.45	20.35	20.29
			25	21.00	20.72	20.37	20.12
		50	0	20.50	20.40	20.34	20.22
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz
15MHz	QPSK	1	0	22.50	22.34	22.11	22.03
			38	22.50	22.36	22.32	22.16
			74	22.50	22.17	22.18	22.14
		36	0	21.50	21.16	21.36	21.15
			18	21.50	21.23	21.27	21.23
			39	21.50	21.20	21.30	21.19
		75	0	21.50	21.19	21.34	21.18
	16QAM	1	0	21.50	21.06	21.02	21.06
			38	21.50	21.23	21.22	21.22
			74	21.50	21.13	21.08	21.20
		36	0	20.50	20.15	20.33	20.08
			18	20.50	20.24	20.24	20.16
			39	20.50	20.16	20.29	20.19
		75	0	20.50	20.17	20.33	20.16
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	22.50	22.04	21.89	21.93
			50	**22.50**	**22.31**	22.27	22.26
			99	22.50	21.92	22.00	22.01
		50	0	21.50	20.96	21.40	21.03
			25	21.50	**21.19**	21.24	21.18
			50	21.50	20.99	21.17	21.12
		100	0	21.50	20.95	21.25	21.10
	16QAM	1	0	21.50	21.32	20.93	20.78
			50	22.00	21.62	21.31	21.16
			99	21.50	21.38	20.99	20.86
		50	0	20.50	19.97	20.39	20.07
			25	20.50	20.20	20.24	20.16
			50	20.50	20.04	20.17	20.09
		100	0	20.50	20.00	20.28	20.06

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8.4 Wi-Fi

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.53	15.00	No
		6	2437	**15.36**	**15.50**	Yes
		11	2462	14.59	15.00	No
	802.11g	1	2412	10.46	10.50	No
		6	2437	11.47	11.50	No
		11	2462	10.74	11.00	No
	802.11n(HT20)	1	2412	10.45	10.50	No
		6	2437	11.50	12.00	No
		11	2462	10.57	11.00	No
	802.11n(HT40)	1	2422	11.36	11.50	No
		6	2437	11.45	11.50	No
		11	2452	11.17	11.50	No
Note: SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2W/kg.						

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-1 (5.150~5.250)	802.11a	36	5180	14.01	14.50	No
		40	5200	14.05	14.50	No
		48	5240	14.01	14.50	No
	802.11n(HT20)	36	5180	13.87	14.00	No
		40	5200	13.90	14.00	No
		48	5240	14.00	14.50	No
	802.11ac(VHT20)	36	5180	13.90	14.00	No
		40	5200	13.86	14.00	No
		48	5240	14.02	14.50	No
	802.11n(HT40)	38	5190	14.18	14.50	No
		46	5230	14.23	14.50	No
	802.11ac(VHT40)	38	5190	14.18	14.50	No
		46	5230	14.25	14.50	No
	802.11ac(VHT80)	42	5210	**14.50**	**15.00**	Yes
Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2a (5.250~5.350)	802.11a	52	5260	14.21	14.50	No
		56	5300	14.28	14.50	No
		64	5320	14.19	14.50	No
	802.11n(HT20)	52	5260	13.97	14.00	No
		56	5300	14.00	14.50	No
		64	5320	13.96	14.00	No
	802.11ac(VHT20)	52	5260	13.97	14.00	No
		60	5300	14.03	14.50	No
		64	5320	13.99	14.00	No
	802.11n(HT40)	54	5270	14.26	14.50	No
		62	5310	14.18	14.50	No
	802.11ac(VHT40)	54	5270	14.23	14.50	No
		62	5310	14.23	14.50	No
	802.11ac(VHT80)	58	5290	**14.61**	**15.00**	Yes
Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2c (5.470~5.725)	802.11a	100	5500	13.77	14.00	No
		116	5580	13.32	13.50	No
		140	5700	11.51	12.00	No
	802.11n(HT20)	100	5500	13.71	14.00	No
		116	5580	13.17	13.50	No
		140	5700	11.29	11.50	No
	802.11ac(VHT20)	100	5500	13.68	14.00	No
		116	5580	13.25	13.50	No
		140	5700	11.26	11.50	No

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	802.11n(HT40)	102	5510	13.81	14.00	No
		118	5550	13.56	14.00	No
		134	5670	12.33	12.50	No
	802.11ac(VHT40)	102	5510	**13.83**	**14.00**	Yes
		118	5550	13.58	14.00	No
		134	5670	12.30	12.50	No
	802.11ac(VHT80)	106	5530	13.67	14.00	No
		122	5610	13.12	13.50	No
Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-3 (5.725~5.850)	802.11a	149	5745	9.64	10.00	No
		157	5785	8.83	9.00	No
		165	5825	8.12	8.50	No
	802.11n(HT20)	149	5745	9.59	10.00	No
		157	5785	8.75	9.00	No
		165	5825	8.08	8.50	No
	802.11ac(VHT20)	149	5745	9.63	10.00	No
		157	5785	8.68	9.00	No
		165	5825	8.01	8.50	No
	802.11n(HT40)	151	5755	10.02	10.50	No
		159	5795	9.57	10.00	No
	802.11ac(VHT40)	151	5755	10.07	10.50	No
		159	5795	9.52	10.00	No
	802.11ac(VHT80)	155	5775	**10.41**	**10.50**	Yes

8.5 NFC

Maximum Tune-up(dBm)	Conducted Output Power(dBm)	$E_{dBμ}$V/m
	13.56MHz	13.56MHz
-42.50	-42.94	52.26
Note: Nominal rated field strength: 52.26 dBuV/m at 3 meter. $P_{dBm}=E_{dBμ}V/m-95.2$		

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR(mW)	RF exposure evaluation required
/	0.01356	-42.50	0.000	0	443	No

8.6 Bluetooth

	Mode	Maximum Tune-up(dBm)	Conducted Output Power (dBm)		
EDR			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	2.50	1.50	2.42	2.37
	π/4QPSK	2.00	0.71	1.76	1.60
	8DPSK	2.00	0.69	1.74	1.58
BLE	Mode	Maximum Tune-up(dBm)	Conducted Output Power (dBm)		
			0	19	39
			2402MHz	2440MHz	2480MHz
	1Mbps	4.00	2.96	3.53	3.81
	2Mbps	**4.00**	2.95	3.54	**3.82**

Note

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

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

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

$$P_{th}\,(\mathrm{mW}) = ERP_{20\,\mathrm{cm}}\,(\mathrm{mW}) = \begin{cases} 2040f & 0.3\,\mathrm{GHz} \le f < 1.5\,\mathrm{GHz} \\ 3060 & 1.5\,\mathrm{GHz} \le f \le 6\,\mathrm{GHz} \end{cases} \quad (\mathrm{B.1})$$

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

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

2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

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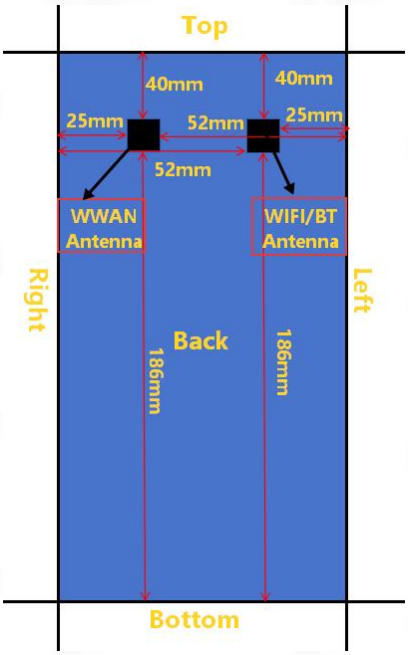
9. Test Exclusion Consideration

Antenna information:



WWAN Antenna	GSM/WCDMA/LTE TX/RX
WLAN Antenna	WLAN TX/RX

Note:
1. KDB 447498 D01v06, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm.
2. Per KDB648474 D04,10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR<1.2W/Kg.

Distance of The Antenna to the EUT surface and edge (mm）						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	<25	<25	52	<25	40	186
WIFI/BT	<25	<25	<25	52	40	186
Positions for SAR tests						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	Yes	Yes	No	Yes	No	No
WIFI/BT	Yes	Yes	Yes	No	No	No

9.1 SAR Test Exclusion Consideration Table

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

(max.power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz) / x] W/kg for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR, and x= 18.75 for 10-g SAR.
0.4 W/Kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

Mode	Channel	Frequency (GHz)	Max tune-up power (dBm)	Max. Power (mW)	Exposure Position	Body-worn
					Test Dist.(mm)	0
NFC	/	0.01356	-42.50	0.000	Estimated SAR(W/kg)	0.000

10. Test Result

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
GPRS 850+3slots	Front	128	824.2	3.660	0.423	100.00	1.000	31.42	31.50	1.019	0.431	/
	Back	128	824.2	-2.470	0.784	100.00	1.000	31.42	31.50	1.019	**0.799**	1#
	Right	128	824.2	-0.870	0.352	100.00	1.000	31.42	31.50	1.019	0.359	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
GPRS 1900+3slots	Front	512	1850.2	1.780	0.311	100.00	1.000	29.69	30.00	1.074	0.334	/
	Back	512	1850.2	2.120	0.673	100.00	1.000	29.69	30.00	1.074	**0.723**	2#
	Right	512	1850.2	-2.240	0.285	100.00	1.000	29.69	30.00	1.074	0.306	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
WCDMA Band 2 (RMC*)	Front	9538	1907.6	-0.040	0.431	100.00	1.000	22.42	22.50	1.019	0.439	/
	Back	9538	1907.6	-1.330	0.774	100.00	1.000	22.42	22.50	1.019	**0.789**	3#
	Right	9538	1907.6	4.300	0.366	100.00	1.000	22.42	22.50	1.019	0.373	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Front	1312	1712.4	2.130	0.481	100.00	1.000	22.07	22.50	1.104	0.531	/
	Back	1312	1712.4	-1.290	0.721	100.00	1.000	22.07	22.50	1.104	**0.796**	4#
	Right	1312	1712.4	0.580	0.323	100.00	1.000	22.07	22.50	1.104	0.357	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
WCDMA Band 5 (RMC*)	Front	4132	826.4	-3.180	0.311	100.00	1.000	22.70	23.00	1.072	0.333	/
	Back	4132	826.4	0.450	0.578	100.00	1.000	22.70	23.00	1.072	**0.620**	5#
	Right	4132	826.4	0.290	0.242	100.00	1.000	22.70	23.00	1.072	0.259	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Front	19100	1900.0	0.350	0.550	100.00	1.000	22.03	22.50	1.114	0.613	/
		Back	18700	1860.0	-1.620	0.951	100.00	1.000	21.87	22.00	1.030	0.980	/
		Back	18900	1880.0	3.690	0.975	100.00	1.000	21.94	22.00	1.014	0.989	/
		Back	19100	1900.0	0.260	1.017	100.00	1.000	22.03	22.50	1.114	**1.133**	6#
		Back-repeat	19100	1900.0	-1.820	1.006	100.00	1.000	22.03	22.50	1.114	1.121	/
		Right	19100	1900.0	0.890	0.428	100.00	1.000	22.03	22.50	1.114	0.477	/
	50%RB	Front	19100	1900.0	-3.160	0.410	100.00	1.000	20.81	21.00	1.045	0.428	/
		Back	19100	1900.0	-2.220	0.964	100.00	1.000	20.81	21.00	1.045	1.007	/
		Right	19100	1900.0	-0.030	0.379	100.00	1.000	20.81	21.00	1.045	0.396	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Front	20050	1720.0	1.350	0.455	100.00	1.000	22.12	22.50	1.091	0.496	/
		Back	20050	1720.0	4.460	0.904	100.00	1.000	22.12	22.50	1.091	**0.986**	7#
		Back-repeat	20050	1720.0	-2.060	0.896	100.00	1.000	22.12	22.50	1.091	0.978	/
		Back	20175	1732.5	-0.510	0.842	100.00	1.000	22.08	22.50	1.102	0.928	/

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		Back	20300	1745.0	2.380	0.824	100.00	1.000	22.01	22.50	1.119	0.922	/
		Right	20050	1720.0	-0.710	0.367	100.00	1.000	22.12	22.50	1.091	0.400	/
	50%RB	Front	20050	1720.0	2.850	0.401	100.00	1.000	20.95	21.00	1.012	0.406	/
		Back	20050	1720.0	3.360	0.854	100.00	1.000	20.95	21.00	1.012	0.864	/
		Right	20050	1720.0	-1.050	0.315	100.00	1.000	20.95	21.00	1.012	0.319	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	2.470	0.354	100.00	1.000	22.89	23.00	1.026	0.363	/
		Back	20450	829.0	-1.450	0.638	100.00	1.000	22.89	23.00	1.026	**0.655**	8#
		Right	20450	829.0	0.140	0.262	100.00	1.000	22.89	23.00	1.026	0.269	/
	50%RB	Front	20450	829.0	3.390	0.306	100.00	1.000	21.69	22.00	1.074	0.329	/
		Back	20450	829.0	2.870	0.587	100.00	1.000	21.69	22.00	1.074	0.630	/
		Right	20450	829.0	1.260	0.227	100.00	1.000	21.69	22.00	1.074	0.244	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 7 (BW: 20MHz)	1RB	Front	21350	2560.0	-1.390	0.445	100.00	1.000	22.33	22.50	1.040	0.463	/
		Back	20850	2510.0	3.090	0.730	100.00	1.000	21.78	22.00	1.052	0.768	/
		Back	21100	2535.0	0.290	0.755	100.00	1.000	22.18	22.50	1.076	0.812	/
		Back	21350	2560.0	-4.030	0.816	100.00	1.000	22.33	22.50	1.040	**0.849**	9#
		Back-repeat	21350	2560.0	1.560	0.810	100.00	1.000	22.33	22.50	1.040	0.842	/
		Right	21350	2560.0	-0.750	0.364	100.00	1.000	22.33	22.50	1.040	0.379	/
	50%RB	Front	21350	2560.0	2.110	0.411	100.00	1.000	21.21	21.50	1.069	0.439	/
		Back	21350	2560.0	-0.400	0.764	100.00	1.000	21.21	21.50	1.069	0.817	/
		Right	21350	2560.0	1.550	0.322	100.00	1.000	21.21	21.50	1.069	0.344	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Front	23060	704.0	1.370	0.177	100.00	1.000	22.98	23.00	1.005	0.184	/
		Back	23060	704.0	-3.350	0.331	100.00	1.000	22.98	23.00	1.005	**0.344**	10#
		Right	23060	704.0	0.140	0.133	100.00	1.000	22.98	23.00	1.005	0.138	/
	50%RB	Front	23060	704.0	2.770	0.135	100.00	1.000	21.88	22.00	1.028	0.144	/
		Back	23060	704.0	4.520	0.285	100.00	1.000	21.88	22.00	1.028	0.305	/
		Right	23060	704.0	-4.120	0.095	100.00	1.000	21.88	22.00	1.028	0.102	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 13 (BW: 10MHz)	1RB	Front	23230	782.0	3.380	0.190	100.00	1.000	22.89	23.00	1.026	0.195	/
		Back	23230	782.0	-2.180	0.292	100.00	1.000	22.89	23.00	1.026	**0.300**	11#
		Right	23230	782.0	1.410	0.154	100.00	1.000	22.89	23.00	1.026	0.158	/
	50%RB	Front	23230	782.0	0.940	0.146	100.00	1.000	21.88	22.00	1.028	0.150	/
		Back	23230	782.0	-0.080	0.246	100.00	1.000	21.88	22.00	1.028	0.253	/
		Right	23230	782.0	1.500	0.100	100.00	1.000	21.88	22.00	1.028	0.103	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 14 (BW: 10MHz)	1RB	Front	23330	793.0	1.710	0.167	100.00	1.000	22.75	23.00	1.059	0.177	/
		Back	23330	793.0	4.130	0.225	100.00	1.000	22.75	23.00	1.059	**0.238**	12#
		Right	23330	793.0	-2.440	0.128	100.00	1.000	22.75	23.00	1.059	0.136	/

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	50%RB	Front	23330	793.0	0.680	0.125	100.00	1.000	21.81	22.00	1.045	0.131	/
		Back	23330	793.0	3.450	0.184	100.00	1.000	21.81	22.00	1.045	0.192	/
		Right	23330	793.0	1.850	0.089	100.00	1.000	21.81	22.00	1.045	0.093	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 17 (BW: 20MHz)	1RB	Front	23800	711	2.590	0.188	100.00	1.000	22.82	23.00	1.042	0.196	/
		Back	23800	711	1.130	0.239	100.00	1.000	22.82	23.00	1.042	**0.249**	13#
		Right	23800	711	0.410	0.150	100.00	1.000	22.82	23.00	1.042	0.156	/
	50%RB	Front	23800	711	-2.750	0.152	100.00	1.000	21.62	22.00	1.091	0.166	/
		Back	23800	711	-3.110	0.194	100.00	1.000	21.62	22.00	1.091	0.212	/
		Right	23800	711	4.060	0.122	100.00	1.000	21.62	22.00	1.091	0.133	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Front	26590	1905.0	3.380	0.366	100.00	1.000	22.04	22.50	1.112	0.407	/
		Back	26590	1905.0	-2.040	0.717	100.00	1.000	22.04	22.50	1.112	**0.797**	14#
		Right	26590	1905.0	2.020	0.264	100.00	1.000	22.04	22.50	1.112	0.294	/
	50%RB	Front	26590	1905.0	-1.010	0.315	100.00	1.000	21.00	21.50	1.122	0.353	/
		Back	26590	1905.0	0.220	0.662	100.00	1.000	21.00	21.50	1.122	0.743	/
		Right	26590	1905.0	3.740	0.225	100.00	1.000	21.00	21.50	1.122	0.252	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 90 (BW: 10MHz)	1RB	Front	26740	819.0	1.090	0.312	100.00	1.000	22.76	23.00	1.057	0.330	/
		Back	26740	819.0	-2.140	0.532	100.00	1.000	22.76	23.00	1.057	**0.562**	15#
		Right	26740	819.0	3.330	0.242	100.00	1.000	22.76	23.00	1.057	0.256	/
	50%RB	Front	26740	819.0	-0.870	0.360	100.00	1.000	21.66	22.00	1.081	0.389	/
		Back	26740	819.0	1.500	0.472	100.00	1.000	21.66	22.00	1.081	0.510	/
		Right	26740	819.0	0.900	0.206	100.00	1.000	21.66	22.00	1.081	0.223	/
Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 22 (BW: 15MHz)	1RB	Front	26765	821.5	1.470	0.293	100.00	1.000	22.54	23.00	1.112	0.326	/
		Back	26765	821.5	-3.770	0.579	100.00	1.000	22.54	23.00	1.112	**0.644**	16#
		Right	26765	821.5	-2.550	0.236	100.00	1.000	22.54	23.00	1.112	0.262	/
	50%RB	Front	26765	821.5	0.910	0.246	100.00	1.000	21.62	22.00	1.091	0.268	/
		Back	26765	821.5	-0.350	0.522	100.00	1.000	21.62	22.00	1.091	0.570	/
		Right	26765	821.5	1.250	0.180	100.00	1.000	21.62	22.00	1.091	0.196	/
Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 38 (BW: 20MHz)	1RB	Front	38150	2610.0	1.670	0.356	100.00	1.000	21.88	22.00	1.028	0.366	/
		Back	37850	2580.0	-2.210	0.778	100.00	1.000	21.81	22.00	1.045	0.813	/
		Back	38000	2595.0	0.050	0.765	100.00	1.000	21.73	22.00	1.064	0.814	/
		Back	38150	2610.0	-3.750	0.831	100.00	1.000	21.88	22.00	1.028	**0.854**	17#
		Back-repeat	38150	2610.0	-4.210	0.825	100.00	1.000	21.88	22.00	1.028	0.848	/
		Right	38150	2610.0	2.010	0.323	100.00	1.000	21.88	22.00	1.028	0.332	/
	50%RB	Front	38150	2610.0	-4.550	0.302	100.00	1.000	20.89	21.00	1.026	0.310	/
		Back	38150	2610.0	0.160	0.787	100.00	1.000	20.89	21.00	1.026	0.807	/
		Right	38150	2610.0	2.710	0.269	100.00	1.000	20.89	21.00	1.026	0.276	/

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Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Front	41490	2680.0	1.620	0.552	100.00	1.000	23.50	24.00	1.122	0.619	/
		Back	39750	2506.0	0.940	0.787	100.00	1.000	21.15	21.50	1.084	0.853	/
		Back	40620	2593.0	-3.740	0.855	100.00	1.000	21.71	22.00	1.069	0.914	/
		Back	41490	2680.0	2.590	1.006	100.00	1.000	23.50	24.00	1.122	**1.129**	18#
		Back-repeat	41490	2680.0	-1.410	0.998	100.00	1.000	23.50	24.00	1.122	1.120	/
		Right	41490	2680.0	0.890	0.371	100.00	1.000	23.50	24.00	1.122	0.416	/
	50%RB	Front	41490	2680.0	-1.350	0.505	100.00	1.000	22.20	22.50	1.072	0.541	/
		Back	41490	2680.0	-4.910	0.921	100.00	1.000	22.20	22.50	1.072	0.987	/
		Right	41490	2680.0	-3.090	0.323	100.00	1.000	22.20	22.50	1.072	0.346	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Front	132072	1720.0	1.620	0.324	100.00	1.000	22.14	22.50	1.086	0.352	/
		Back	132072	1720.0	-0.650	0.734	100.00	1.000	22.14	22.50	1.086	**0.797**	19#
		Right	132072	1720.0	-0.720	0.266	100.00	1.000	22.14	22.50	1.086	0.289	/
	50%RB	Front	132072	1720.0	3.620	0.287	100.00	1.000	20.95	21.00	1.012	0.290	/
		Back	132072	1720.0	-4.190	0.682	100.00	1.000	20.95	21.00	1.012	0.690	/
		Right	132072	1720.0	2.280	0.235	100.00	1.000	20.95	21.00	1.012	0.238	/

Body/Limb(hotspot open, 0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Front	133222	673.0	-3.200	0.254	100.00	1.000	22.31	22.50	1.045	0.265	/
		Back	133222	673.0	-4.210	0.515	100.00	1.000	22.31	22.50	1.045	**0.538**	20#
		Right	133222	673.0	-1.090	0.182	100.00	1.000	22.31	22.50	1.045	0.190	/
	50%RB	Front	133222	673.0	2.580	0.206	100.00	1.000	21.19	21.50	1.074	0.221	/
		Back	133222	673.0	0.870	0.450	100.00	1.000	21.19	21.50	1.074	0.483	/
		Right	133222	673.0	-1.520	0.148	100.00	1.000	21.19	21.50	1.074	0.159	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4~2.4835) 802.11b	Front	6	2437	1.340	0.152	100.00	1.000	15.36	15.50	1.033	0.157	/
	Back	6	2437	-3.190	0.282	100.00	1.000	15.36	15.50	1.033	**0.291**	21#
	Left	6	2437	-2.810	0.126	100.00	1.000	15.36	15.50	1.033	0.130	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-1 (5.150~5.250) 802.11ac(VHT80)	Front	42	5210	-2.600	0.211	100.00	1.000	14.50	15.00	1.122	0.237	/
	Back	42	5210	-1.030	0.345	100.00	1.000	14.50	15.00	1.122	**0.387**	22#
	Left	42	5210	0.500	0.164	100.00	1.000	14.50	15.00	1.122	0.184	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-2a (5.250~5.350) 802.11ac(VHT80)	Front	58	5290	2.800	0.152	100.00	1.000	14.61	15.00	1.094	0.166	/
	Back	58	5290	0.930	0.382	100.00	1.000	14.61	15.00	1.094	**0.418**	23#
	Left	58	5290	-1.190	0.129	100.00	1.000	14.61	15.00	1.094	0.141	/

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Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-2c (5.470~5.725) 802.11ac(VHT40)	Front	102	5510	0.770	0.136	100.00	1.000	13.83	14.00	1.040	0.141	/
	Back	102	5510	-1.820	0.403	100.00	1.000	13.83	14.00	1.040	**0.419**	24#
	Left	102	5510	-1.190	0.104	100.00	1.000	13.83	14.00	1.040	0.108	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-3 (5.725~5.850) 802.11ac(VHT80)	Front	155	5775	-2.110	0.112	100.00	1.000	10.41	10.50	1.021	0.114	/
	Back	155	5775	2.160	0.257	100.00	1.000	10.41	10.50	1.021	**0.262**	25#
	Left	155	5775	2.570	0.086	100.00	1.000	10.41	10.50	1.021	0.088	/

Body/Limb(hotspot open, 0mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
BLE	Front	39	2480	1.350	0.030	100.00	1.000	3.82	4.00	1.042	0.031	/
	Back	39	2480	2.780	0.047	100.00	1.000	3.82	4.00	1.042	**0.049**	26#
	Left	39	2480	-0.280	0.024	100.00	1.000	3.82	4.00	1.042	0.025	/

Note:

1. The maximum SAR Value of each test band is marked bold.
2. SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
3. Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
4. Per KDB 616217 D04, tablet use is evaluated with the device positioned at 0mm from a flat phantom respectively filled with head tissue-equivalent medium.
5. Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) - Ave.power power (dBm))/10], where tune-up limit is the maximum rated power among all production units.
   Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

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11. SAR Measurement Variability

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

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is 1.017 > 0.80 W/kg, repeated measurement is as below.

Mode	Position	Ch.	Freq. (MHz)	1g Meas SAR (W/kg)	the ratio of largest to smallest SAR for the original and first repeated measurements
Band 2 (BW: 20MHz)	Back	19100	1900.0	1.017	1.011
	Back-repeated	19100	1900.0	1.006	
Band 4 (BW: 20MHz)	Back	20050	1720.0	0.904	1.009
	Back-repeated	20050	1720.0	0.896	
Band 7 (BW: 20MHz)	Back	21350	2560.0	0.816	1.007
	Back-repeated	21350	2560.0	0.810	
Band 38 (BW: 20MHz)	Back	38150	2610.0	0.831	1.007
	Back-repeated	38150	2610.0	0.825	
Band 41 (BW: 20MHz)	Back	41490	2680.0	1.006	1.008
	Back-repeated	41490	2680.0	0.998	

According to the above ratio result, we don’t need to perform a second repeated measurement for these bands.

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12. Simultaneous Transmission

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

12.1 Simultaneous Transmission Mode Considerations

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 2 Tx antennas, WWAN main antenna, Wifi/BT antenna supports 2.4G/5G Wi-Fi and BT. The 2 antennas can always transmit simultaneously. The work mode combination is showed as below table.

Application Simultaneous Transmission information:

NO.	Configuration	Body-worn
1	WWAN+WIFI(2.4g)	Yes
2	WWAN+WIFI(5g)	Yes
3	WWAN+BT	Yes
4	WWAN+NFC	Yes

12.2 Sum SAR of Simultaneous Transmission

Hotspot(body-worn)

Band	Test Position	RB allocation	Scaled					Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + WIFI 5.6G	Σ SAR (W/kg) WWAN + BT	Σ SAR (W/kg) WWAN + NFC	SPLSR	Remark
			WWAN	WIFI 2.4G	WIFI 5.6G	Bluetooth	NFC						
LTE Band 2 QPSK (20MHz)	Front	1RB	0.613	0.157	0.141	0.031	0.000	0.770	0.754	0.644	0.613	N/A	N/A
	Back		**1.133**	**0.291**	**0.419**	**0.049**	0.000	1.424	**1.552**	1.182	1.133	N/A	N/A
	Left		/	0.130	0.108	0.025	0.000	0.130	0.108	0.025	0.000	N/A	N/A
	Right		0.477	/	/	/	0.000	0.477	0.477	0.477	0.477	N/A	N/A
	Front	50%RB	0.428	0.157	0.141	0.031	0.000	0.585	0.569	0.459	0.428	N/A	N/A
	Back		1.007	0.291	0.419	0.049	0.000	1.298	1.426	1.056	1.007	N/A	N/A
	Left		/	0.130	0.108	0.025	0.000	0.130	0.108	0.025	0.000	N/A	N/A
	Right		0.396	/	/	/	0.000	0.396	0.396	0.396	0.396	N/A	N/A

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13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	0125-EPGO-445	2026/03/03	2027/03/02
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2025/10/17	2026/10/16
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2025/10/17	2026/10/16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025/10/17	2026/10/16
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2026/04/02	2027/04/01
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2026/04/02	2027/04/01
MXA Signal Analyzer	KEYSIGHT	N9020A	MY54410409	2025/10/17	2026/10/16
Broadband Preamplifier	Schwarzbeck	BBV9718D	00008	2025/10/17	2026/10/16
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	2025/10/17	2026/10/16
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2025/05/26	2028/05/25
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2025/05/26	2028/05/25
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2025/05/26	2028/05/25
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2025/05/26	2028/05/25
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2025/05/26	2028/05/25
2600MHz Validation Dipole	MVG	SID2600	07/22 DIP 2G600-663	2025/05/26	2028/05/25
5200MHz-5800MHz Validation Dipole	MVG	SID5000	07/22 DIP5G000-670	2025/05/26	2028/05/25
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	2026/04/07	2027/04/06
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2025/10/17	2026/10/16
Thermometer	Riters	DT-232	21A11	2026/04/02	2027/04/01
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	N/A	N/A
SAM Phantom	MVG	SAM	07/22 SAM149	N/A	N/A
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	N/A	N/A
Mechanical Calibration Kit	PNA	N/A	N/A	2025/10/17	2026/10/16
Open SAR test software	MVG	N/A	V5.3.15	N/A	N/A

Note: For dipole antennas, BTF has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

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ANNEX A Simulating Liquid Verification Result

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

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	εr		σ(s/m)		Delta (εr)	Delta (σ)	Limit	Temp (℃)	Date
	Target	Measured	Target	Measured					
673	41.90	42.88	0.89	0.86	2.34%	-3.37%	±5%	22.6	23/4/2026
704	41.90	42.68	0.89	0.85	1.86%	-4.49%	±5%	22.6	23/4/2026
711	41.90	42.63	0.89	0.85	1.74%	-4.49%	±5%	22.6	23/4/2026
750	41.90	42.38	0.89	0.86	1.15%	-3.37%	±5%	22.6	23/4/2026
782	41.90	42.17	0.89	0.87	0.64%	-2.25%	±5%	22.6	23/4/2026
793	41.90	42.10	0.89	0.87	0.48%	-2.25%	±5%	22.6	23/4/2026
819	41.50	41.93	0.90	0.87	1.04%	-3.33%	±5%	23.1	24/4/2026
821.5	41.50	41.91	0.90	0.87	0.99%	-3.33%	±5%	23.1	24/4/2026
824.2	41.50	41.89	0.90	0.87	0.94%	-3.33%	±5%	23.1	24/4/2026
829	41.50	41.86	0.90	0.88	0.87%	-2.22%	±5%	23.1	24/4/2026
835	41.50	41.82	0.90	0.88	0.77%	-2.22%	±5%	23.1	24/4/2026
1712.4	40.00	40.52	1.40	1.34	1.30%	-4.29%	±5%	22.2	26/4/2026
1720	40.00	40.50	1.40	1.34	1.25%	-4.29%	±5%	22.2	26/4/2026
1732.5	40.00	40.49	1.40	1.35	1.23%	-3.57%	±5%	22.2	26/4/2026
1745	40.00	40.47	1.40	1.35	1.18%	-3.57%	±5%	22.2	26/4/2026
1800	40.00	40.39	1.40	1.36	0.98%	-2.86%	±5%	22.2	26/4/2026
1850.2	40.00	40.35	1.40	1.37	0.88%	-2.14%	±5%	21.8	27/4/2026
1860	40.00	40.34	1.40	1.37	0.85%	-2.14%	±5%	21.8	27/4/2026
1880	40.00	40.33	1.40	1.38	0.82%	-1.43%	±5%	21.8	27/4/2026
1900	40.00	40.31	1.40	1.38	0.78%	-1.43%	±5%	21.8	27/4/2026
1907.6	40.00	40.29	1.40	1.38	0.72%	-1.43%	±5%	21.8	27/4/2026
1905	40.00	40.30	1.40	1.38	0.75%	-1.43%	±5%	21.8	27/4/2026
2437	39.20	38.80	1.80	1.82	-1.02%	1.11%	±5%	22.4	28/4/2026
2450	39.20	38.76	1.80	1.83	-1.12%	1.67%	±5%	22.4	28/4/2026
2480	39.20	38.75	1.80	1.85	-1.15%	2.78%	±5%	22.4	28/4/2026
2506	39.00	38.74	1.96	1.87	-0.67%	-4.59%	±5%	21.5	29/4/2026
2510	39.00	38.74	1.96	1.87	-0.67%	-4.59%	±5%	21.5	29/4/2026
2535	39.00	38.73	1.96	1.89	-0.69%	-3.57%	±5%	21.5	29/4/2026
2560	39.00	38.73	1.96	1.91	-0.69%	-2.55%	±5%	21.5	29/4/2026
2580	39.00	38.72	1.96	1.92	-0.72%	-2.04%	±5%	21.5	29/4/2026
2593	39.00	38.71	1.96	1.93	-0.74%	-1.53%	±5%	21.5	29/4/2026
2595	39.00	38.71	1.96	1.93	-0.74%	-1.53%	±5%	21.5	29/4/2026
2600	39.00	38.71	1.96	1.93	-0.74%	-1.53%	±5%	21.5	29/4/2026
2610	39.00	38.70	1.96	1.94	-0.77%	-1.02%	±5%	21.5	29/4/2026
2680	39.00	38.64	1.96	2.01	-0.92%	2.55%	±5%	21.5	29/4/2026
5200	36.00	36.27	4.66	4.71	0.75%	1.07%	±5%	21.3	20/4/2026
5210	36.00	36.41	4.66	4.54	1.14%	-2.58%	±5%	21.3	20/4/2026
5290	36.00	36.18	4.66	4.67	0.50%	0.21%	±5%	21.3	20/4/2026
5510	35.50	35.62	5.07	5.07	0.34%	0.00%	±5%	21.4	22/4/2026
5600	35.50	35.63	5.07	5.21	0.37%	2.76%	±5%	21.4	22/4/2026
5775	35.30	35.13	5.27	5.22	-0.48%	-0.95%	±5%	21.4	2 2/4/2026
5800	35.30	35.36	5.27	5.22	0.17%	-0.95%	±5%	21.4	22/4/2026
NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 ℃ of the conditions expected during the SAR evaluation to satisfy protocol requirements.									

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ANNEX B System Check Result

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

Frequency (MHz)	Input Power (mW)	10g SAR (W/Kg)	1g SAR (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Standard target (1W) (W/Kg)	10g SAR Deviation	1g SAR Deviation
750	100	0.574	0.864	5.74	8.64	5.55	8.41	3.42%	2.73%
835	100	0.612	0.921	6.12	9.21	6.12	9.46	0.00%	-2.64%
1800	100	2.059	3.723	20.59	37.23	19.83	37.93	3.83%	-1.85%
1900	100	2.193	4.201	21.93	42.01	20.82	40.29	5.33%	4.27%
2450	100	2.437	5.078	24.37	50.78	24.55	52.72	-0.73%	-3.68%
2600	100	2.661	5.778	26.61	57.78	24.43	53.76	8.92%	7.48%
5200	100	2.492	8.260	24.92	82.60	22.78	78.16	9.39%	5.68%
5600	100	2.496	8.281	24.96	82.81	23.95	82.72	4.22%	0.11%
5800	100	2.354	7.845	23.54	78.45	22.71	78.32	3.65%	0.17%

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System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 23/4/2026

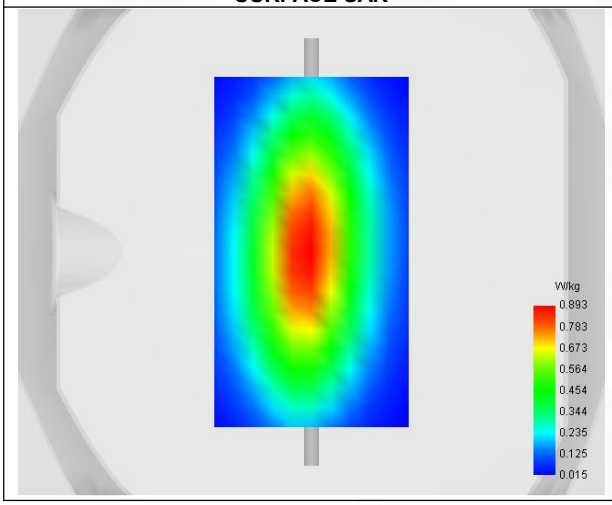
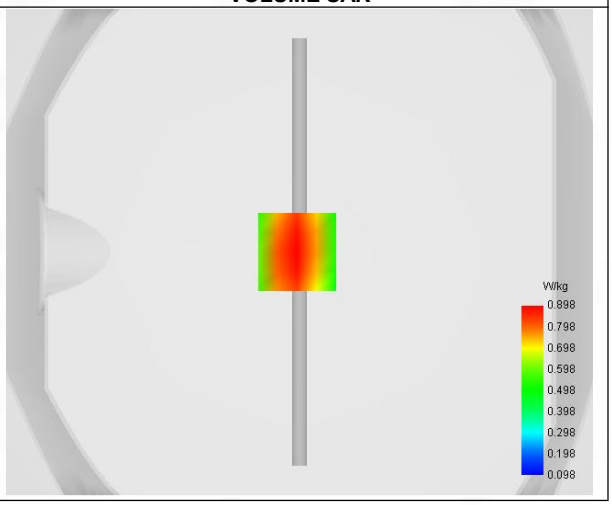
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	750.000
Relative permitivity (real part)	42.378
Relative permitivity (imaginary part)	21.152
Conductivity (S/m)	0.859

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.21 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.574
SAR 1g (W/Kg)	0.864
Variation (%)	-4.680
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.161470

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.216	0.898	0.621	0.442	0.320	0.230	0.171

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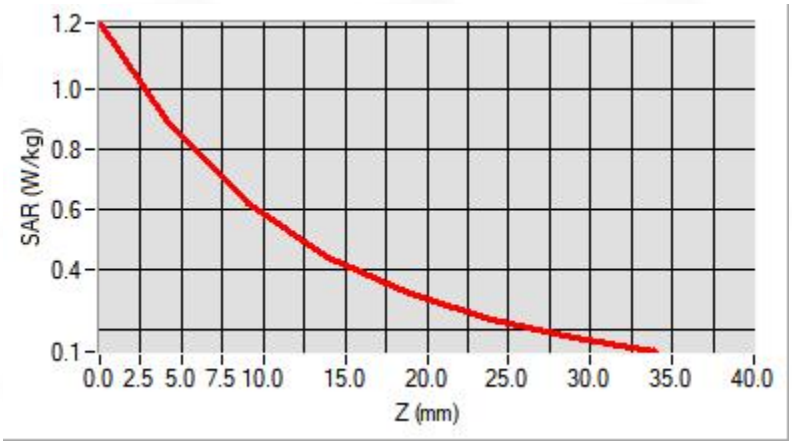
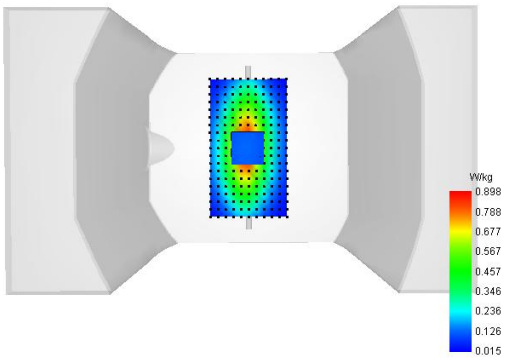
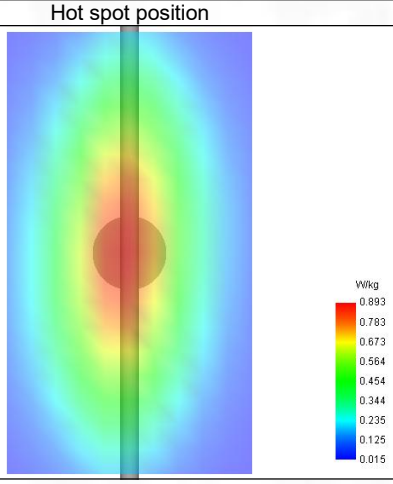


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (835 MHz)

System check at 835 MHz

Date of measurement: 24/4/2026

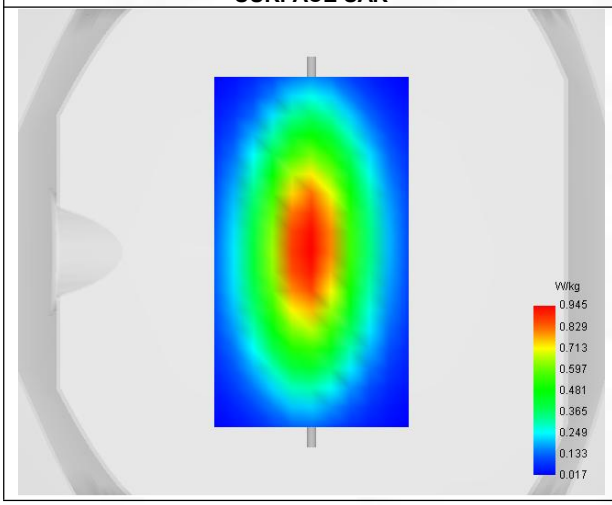
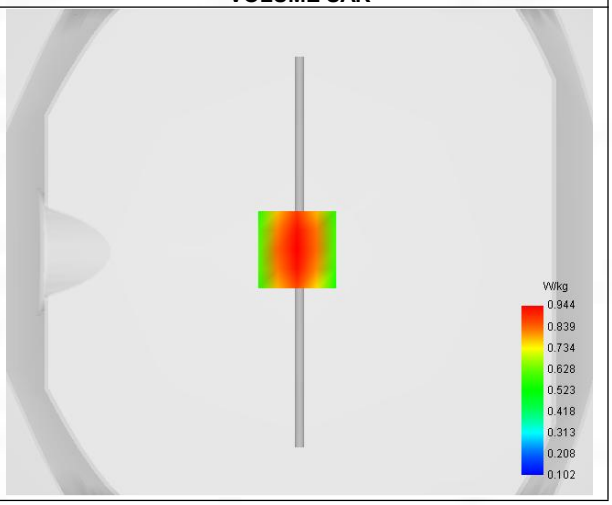
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	835.000
Relative permitivity (real part)	41.823
Relative permitivity (imaginary part)	19.666
Conductivity (S/m)	0.876

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 1.28 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.612
SAR 1g (W/Kg)	0.921
Variation (%)	-0.460
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.025951

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.285	0.944	0.652	0.467	0.337	0.241	0.175

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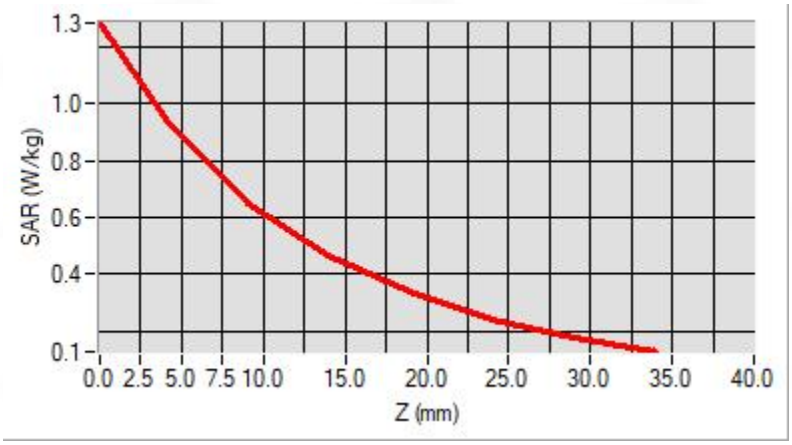
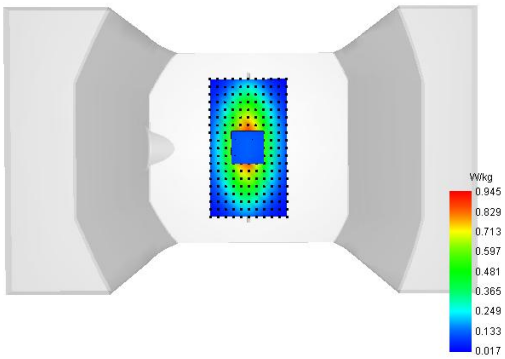
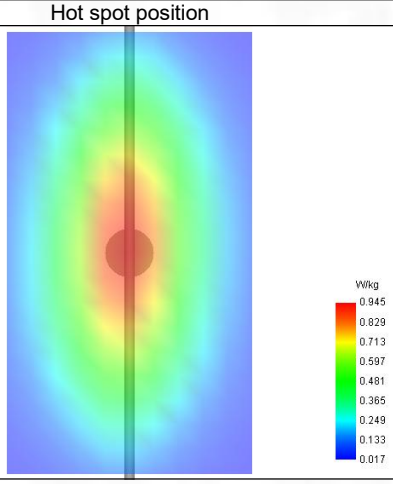


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (1800 MHz)

System check at 1800 MHz

Date of measurement: 26/4/2026

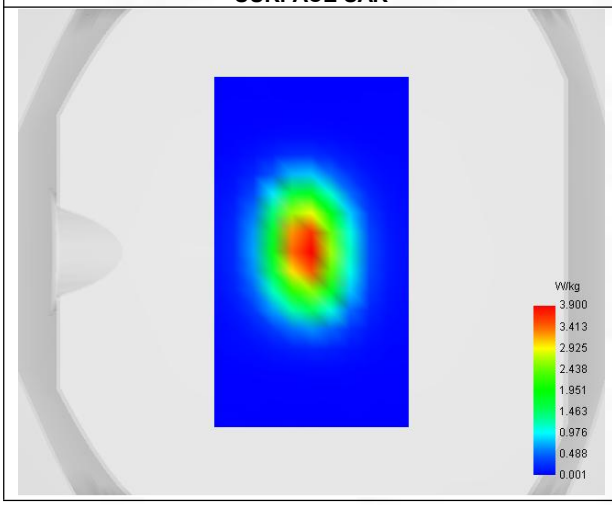
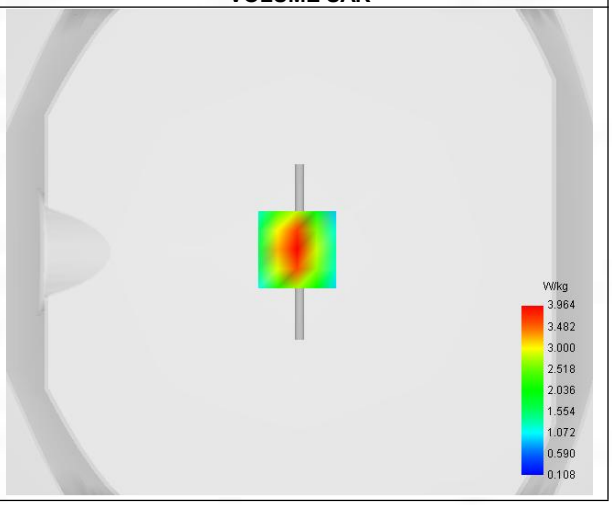
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	1800.000
Relative permitivity (real part)	40.385
Relative permitivity (imaginary part)	15.007
Conductivity (S/m)	1.363

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 5.92 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.059
SAR 1g (W/Kg)	3.723
Variation (%)	1.920
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.092987

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.912	3.964	2.382	1.458	0.911	0.573	0.362

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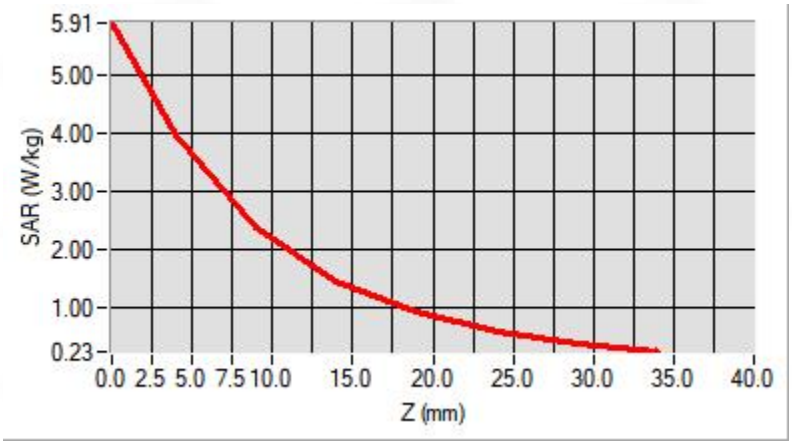
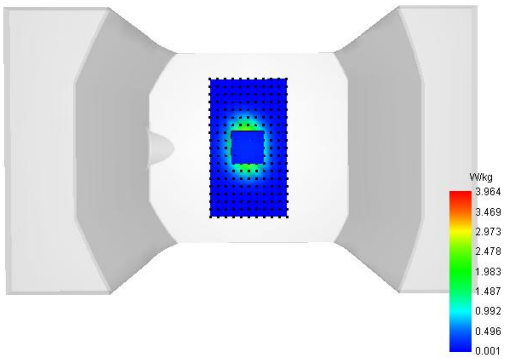
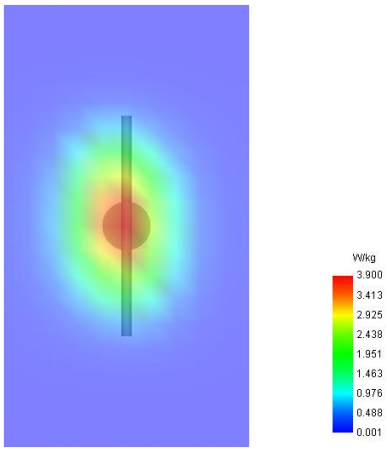


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (1900 MHz)

System check at 1900 MHz

Date of measurement: 27/4/2026

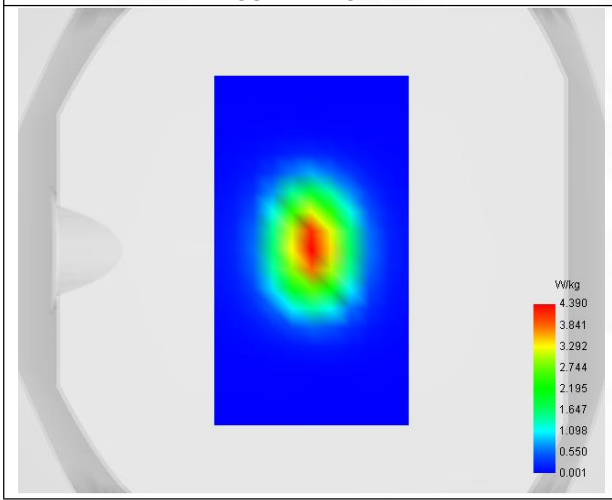
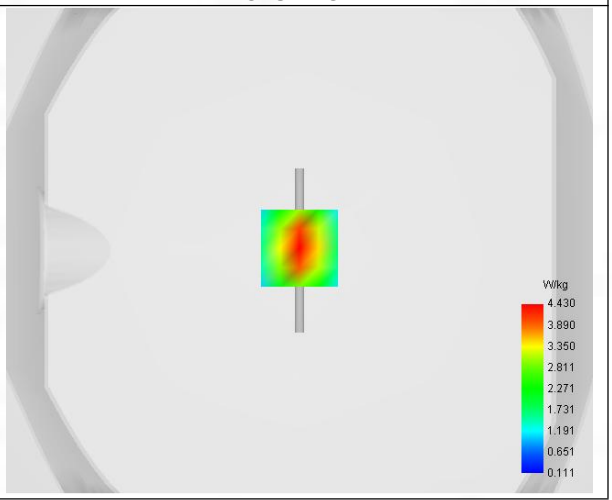
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	1900.000
Relative permitivity (real part)	40.312
Relative permitivity (imaginary part)	13.845
Conductivity (S/m)	1.378

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00 ; SAR Peak: 6.57 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.193
SAR 1g (W/Kg)	4.201
Variation (%)	-3.660
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.006196

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.604	4.430	2.658	1.620	1.000	0.620	0.386

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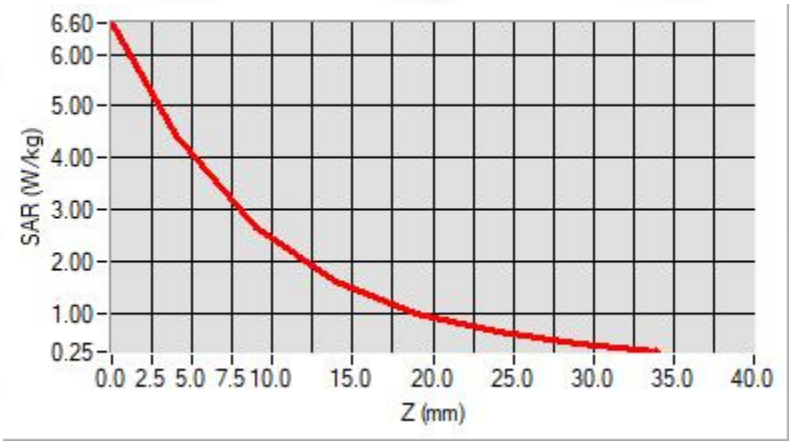
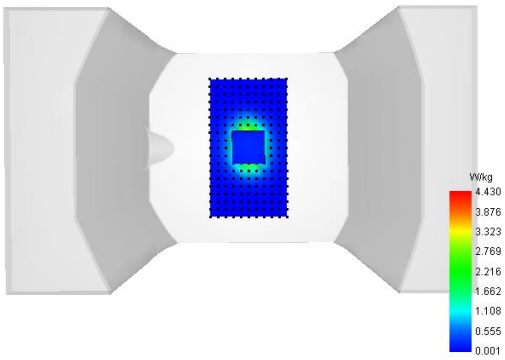
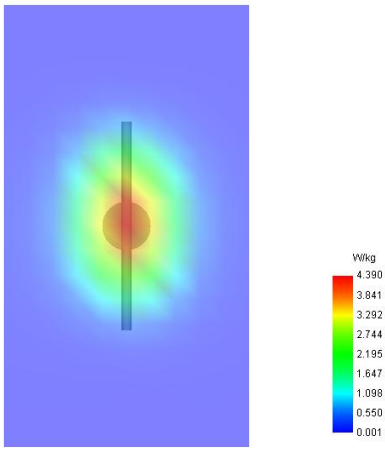


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (2450 MHz)

System check at 2450 MHz

Date of measurement: 28/4/2026

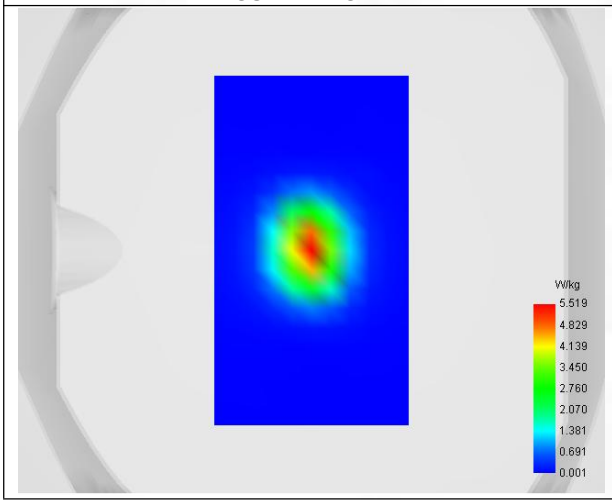
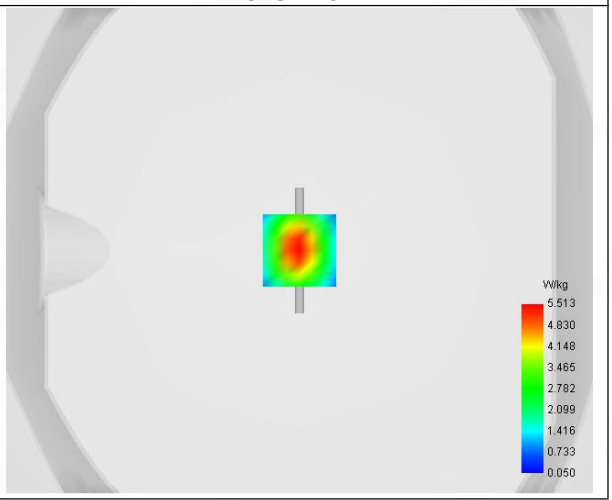
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	2450.000
Relative permitivity (real part)	38.763
Relative permitivity (imaginary part)	13.456
Conductivity (S/m)	1.833

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 8.86 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.437
SAR 1g (W/Kg)	5.078
Variation (%)	-2.400
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	52.851290

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.933	5.513	2.914	1.573	0.867	0.477	0.264

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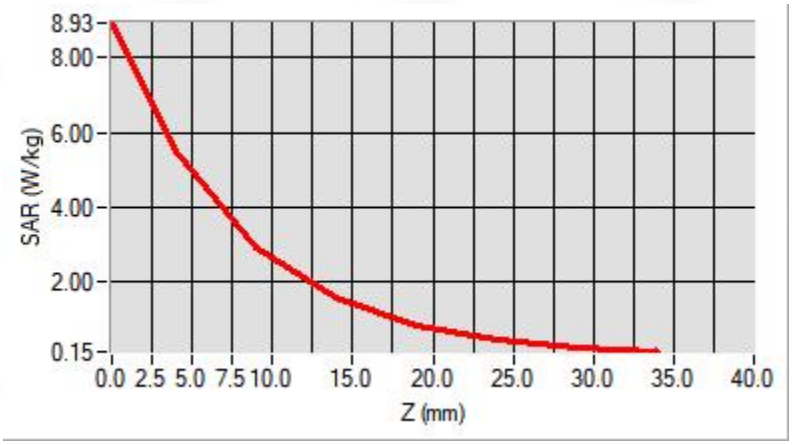
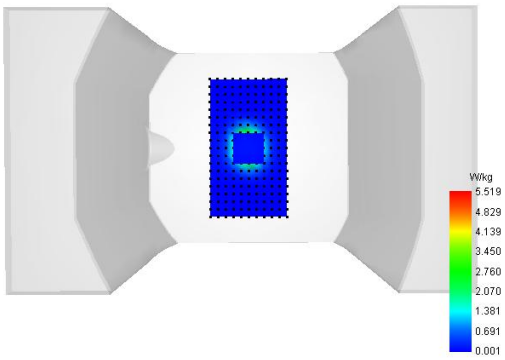
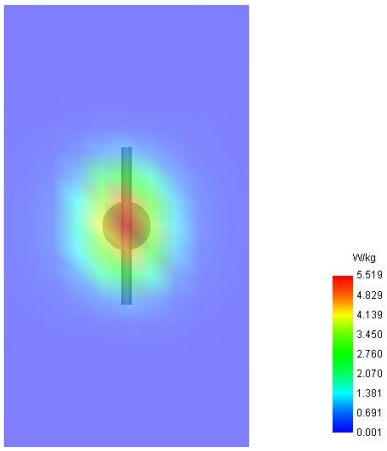


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (2600 MHz)

System check at 2600 MHz

Date of measurement: 29/4/2026

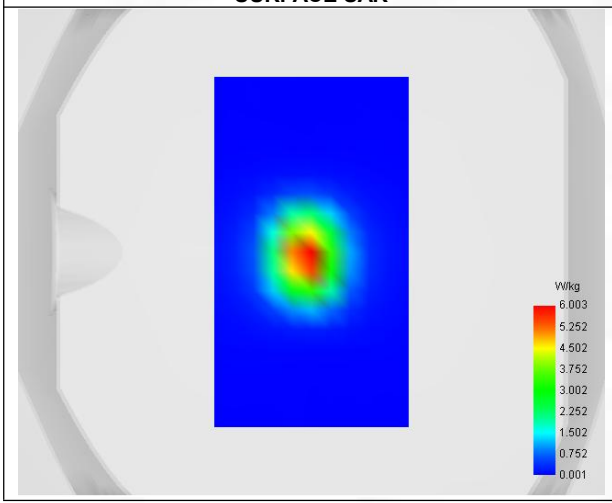
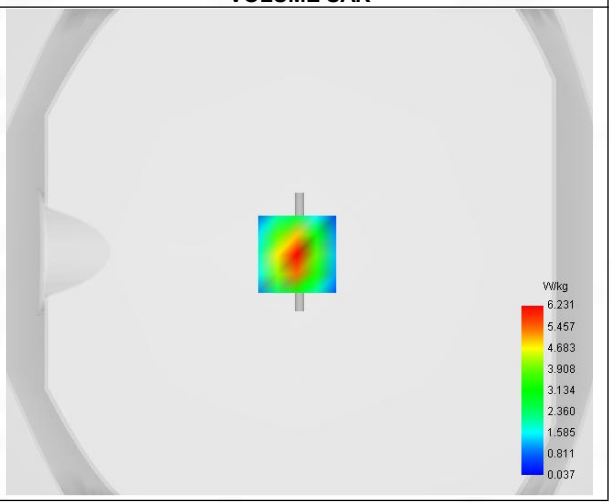
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.26
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW2600
Channels/Frequency	Higher
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	2600.000
Relative permitivity (real part)	38.712
Relative permitivity (imaginary part)	12.617
Conductivity (S/m)	1.931

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-1.00 ; SAR Peak: 10.30 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.661
SAR 1g (W/Kg)	5.778
Variation (%)	-0.240
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.289679

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.259	6.231	3.196	1.650	0.869	0.458	0.241

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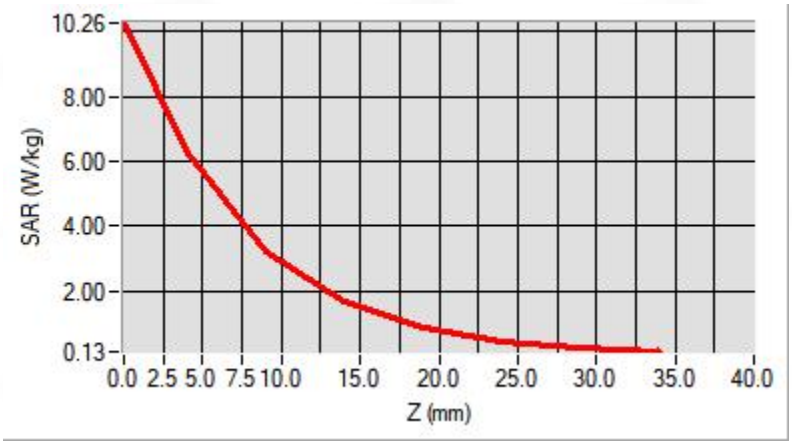
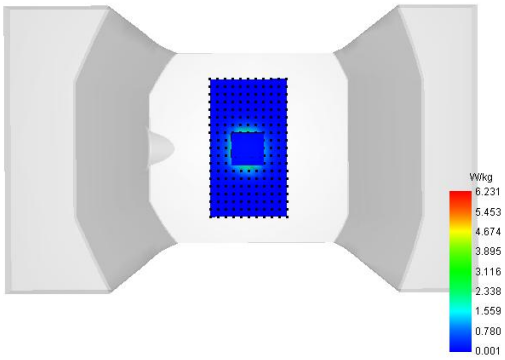
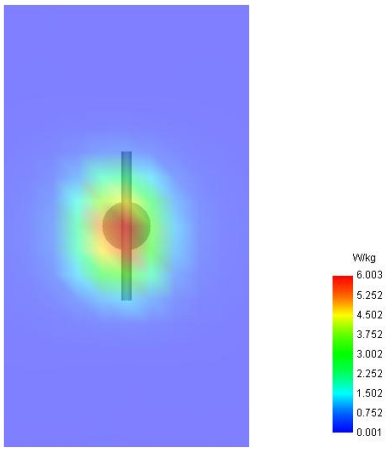


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (5200 MHz)

System check at 5200 MHz

Date of measurement: 20/4/2026

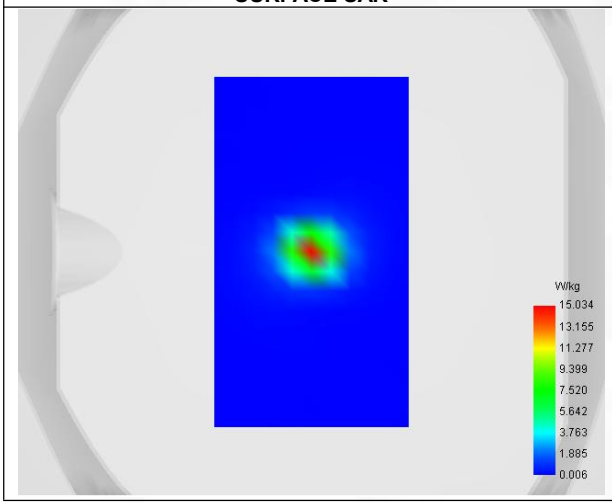
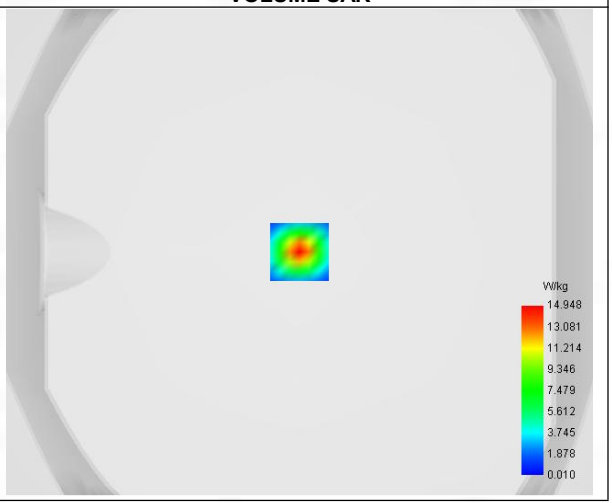
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.16
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5200
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	5200.000
Relative permitivity (real part)	36.436
Relative permitivity (imaginary part)	16.441
Conductivity (S/m)	4.523

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 25.11 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.492
SAR 1g (W/Kg)	8.260
Variation (%)	-2.970
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.957554

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	23.956	14.948	8.365	4.822	2.758	1.585	0.908	0.501	0.294	0.171	0.099	0.063

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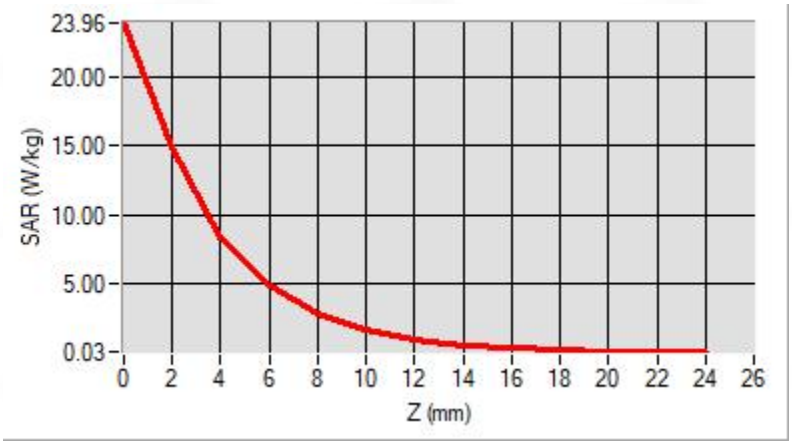
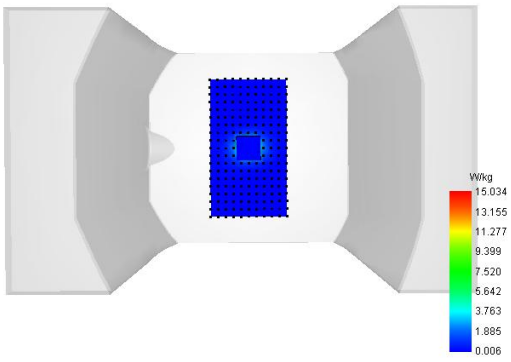
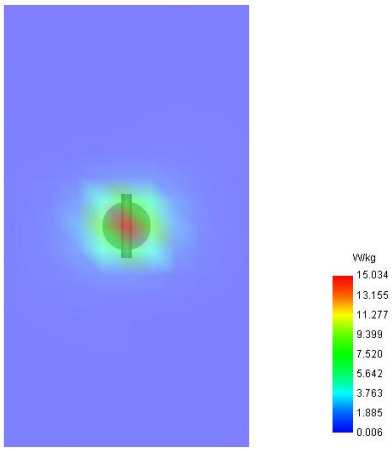


F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (5600 MHz)

System check at 5600 MHz

Date of measurement: 22/4/2026

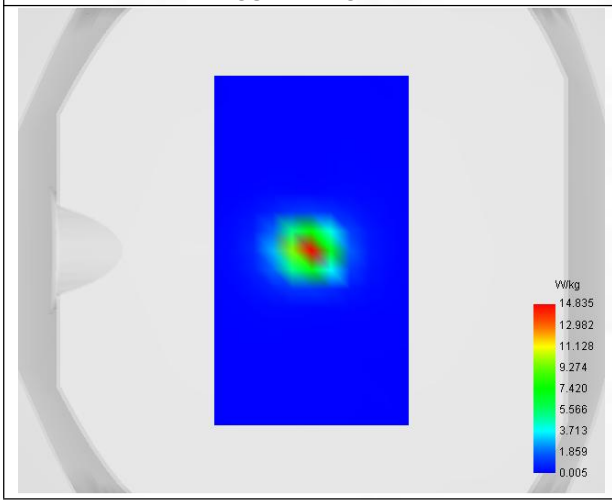
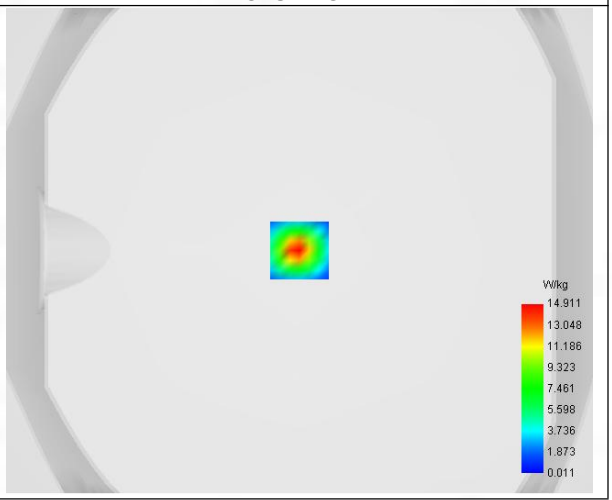
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.99
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	5600.000
Relative permitivity (real part)	35.429
Relative permitivity (imaginary part)	16.868
Conductivity (S/m)	5.254

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 25.99 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.496
SAR 1g (W/Kg)	8.281
Variation (%)	-3.960
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.569938

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	24.468	14.911	7.988	4.390	2.391	1.308	0.715	0.387	0.214	0.120	0.069	0.034

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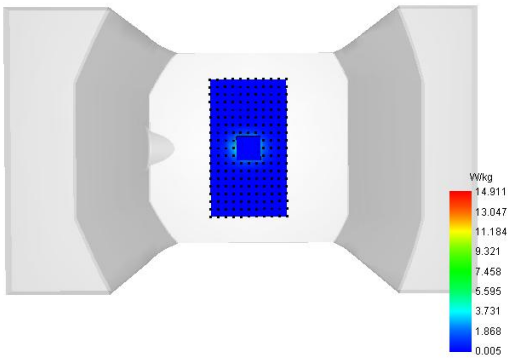
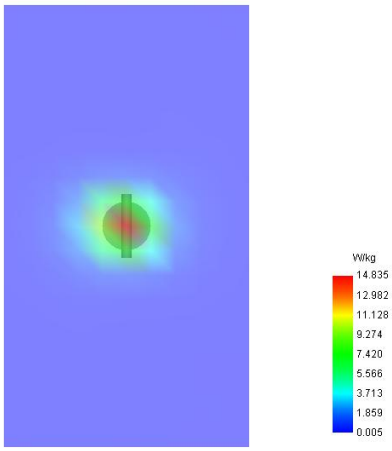
F. 3D Image

3D screen shot	Hot spot position
	

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System Performance Check Data (5800 MHz)

System check at 5800 MHz

Date of measurement: 22/4/2026

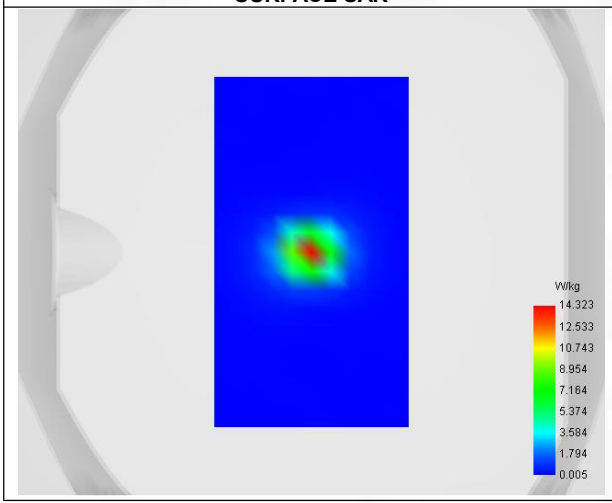
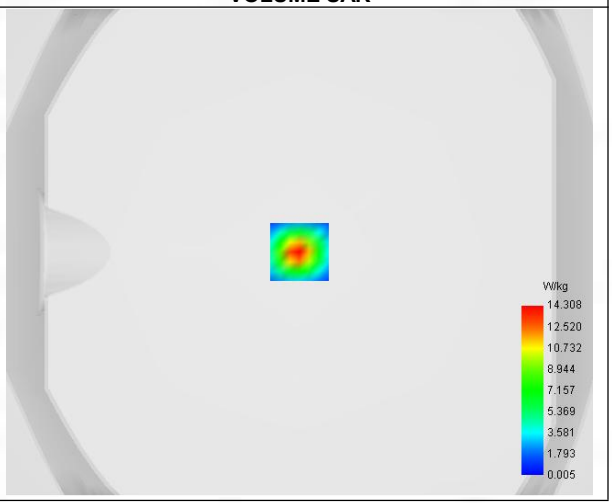
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.10
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels/Frequency	Middle
Signal	CW

B. Permitivity

Middle TX Frequency (MHz)	5800.000
Relative permitivity (real part)	35.334
Relative permitivity (imaginary part)	16.372
Conductivity (S/m)	5.356

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 24.80 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.354
SAR 1g (W/Kg)	7.845
Variation (%)	4.400
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.332018

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	23.630	14.308	7.631	4.085	2.204	1.186	0.651	0.340	0.168	0.101	0.052	0.030

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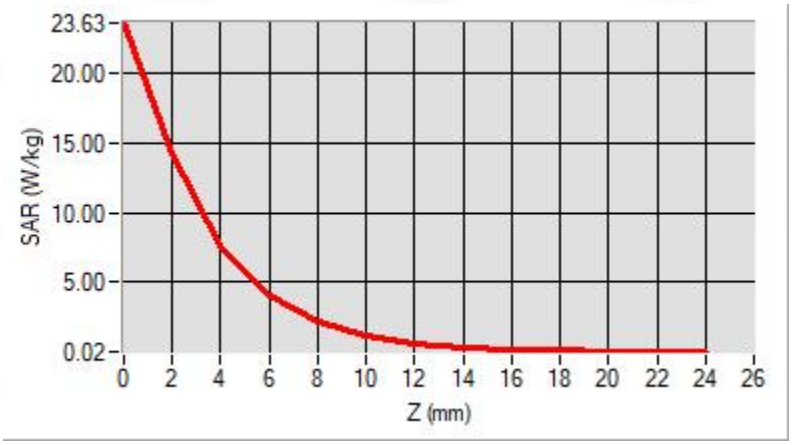
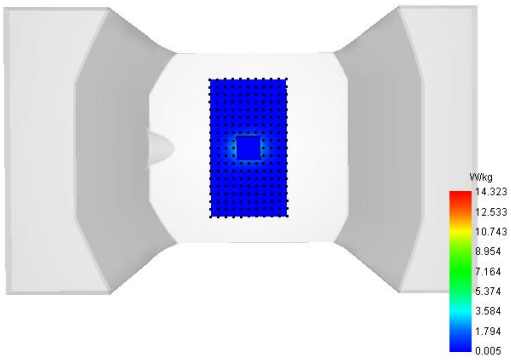
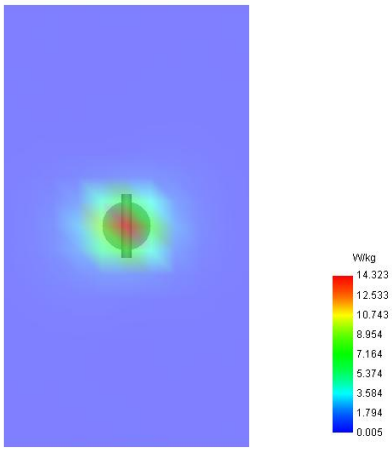


F. 3D Image

3D screen shot	Hot spot position
	

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ANNEX C Test Data

1-Body/Limb with back position in dist. 0mm on Channel 128 in GPRS 850+3slots

SAR Measurement at GSM850 (Body, Validation Plane)

Date of measurement: 23/4/2026

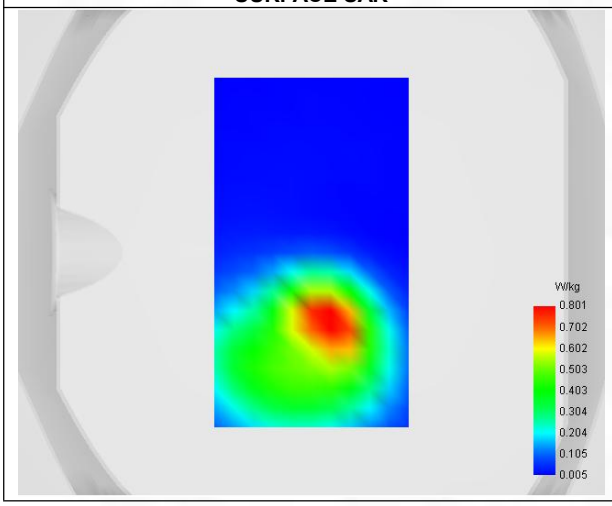
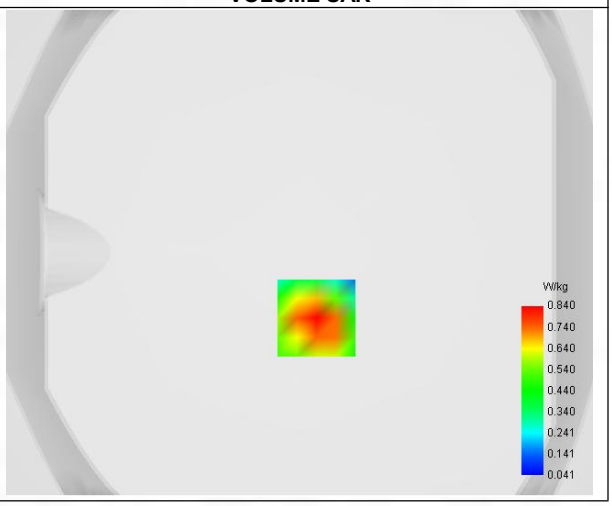
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels/Frequency	Lower (128)/ frequency 824.200 Mhz
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	3

B. Permitivity

Middle TX Frequency (MHz)	824.400
Relative permitivity (real part)	41.892
Relative permitivity (imaginary part)	19.851
Conductivity (S/m)	0.874

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=-27.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.482
SAR 1g (W/Kg)	0.784
Variation (%)	-2.470
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.837529

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.176	0.840	0.553	0.371	0.254	0.180	0.126

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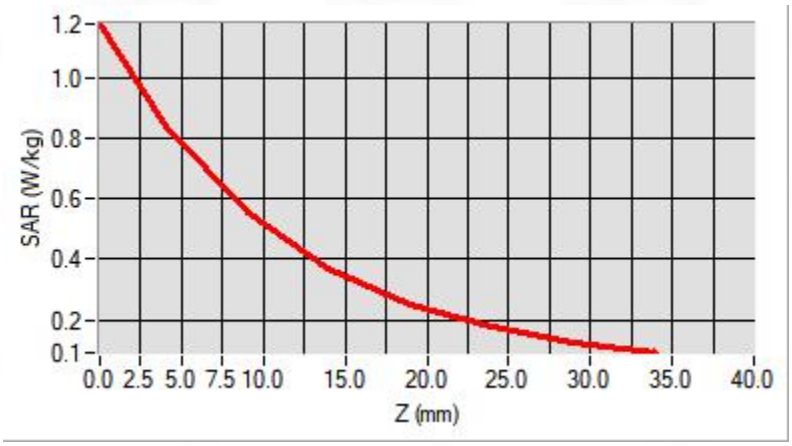
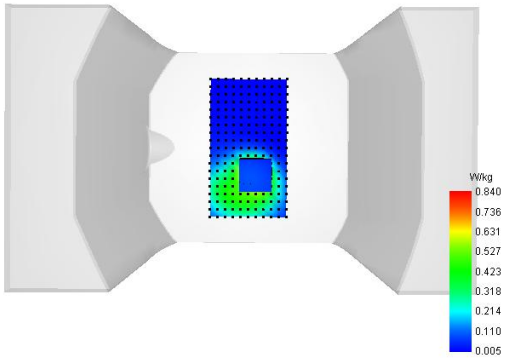
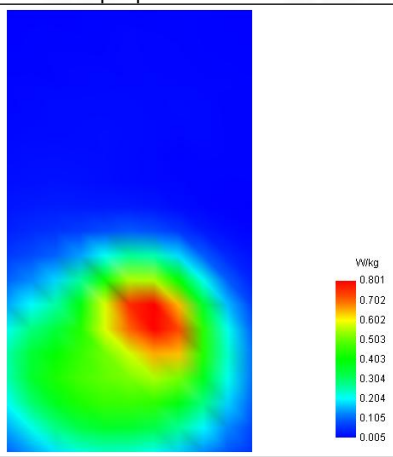


F. 3D Image

3D screen shot	Hot spot position
	

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2-Body/Limb with back position in dist. 0mm on Channel 512 in GPRS 1900+3slots

SAR Measurement at GSM1900 (Body, Validation Plane)

Date of measurement: 27/4/2026

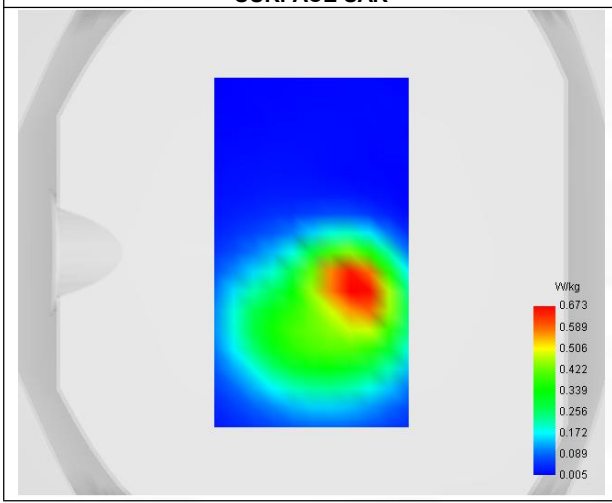
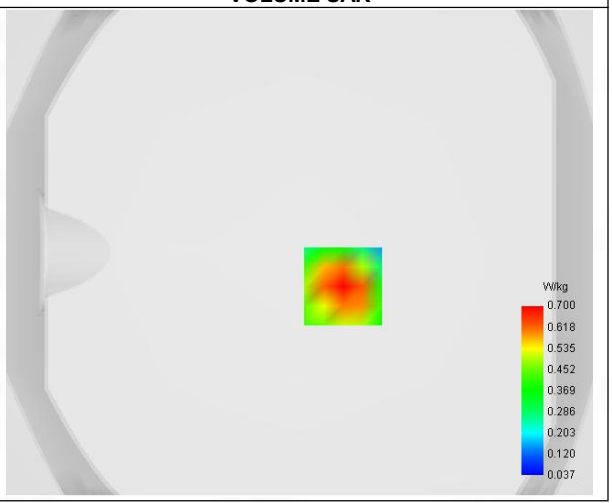
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels/Frequency	Lower (512)/ frequency 1850.200 Mhz
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	3

B. Permitivity

Middle TX Frequency (MHz)	1850.200
Relative permitivity (real part)	40.348
Relative permitivity (imaginary part)	14.424
Conductivity (S/m)	1.371

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=18.00, Y=-14.00 ; SAR Peak: 0.99 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.406
SAR 1g (W/Kg)	0.673
Variation (%)	2.120
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.087055

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.980	0.700	0.463	0.317	0.219	0.156	0.111

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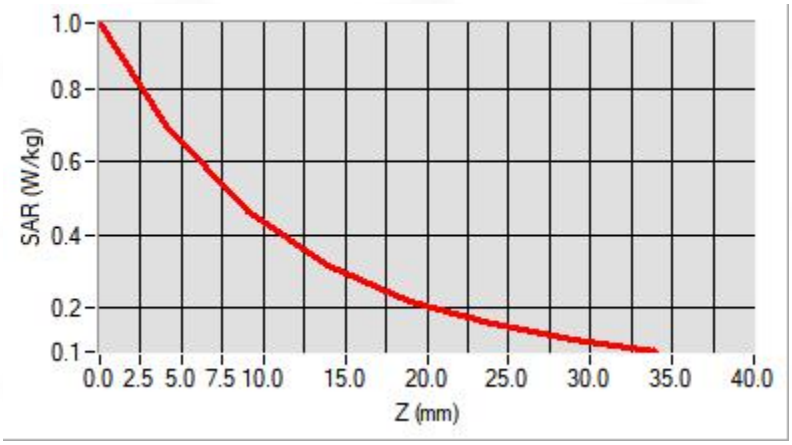
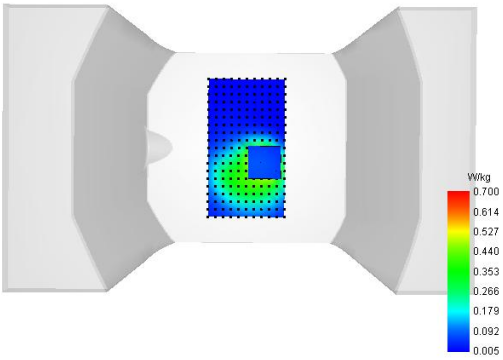
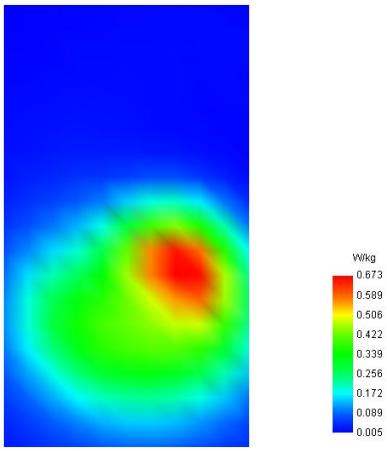


F. 3D Image

3D screen shot	Hot spot position
	

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3-Body/Limb with back position in dist. 0mm on Channel 9538 in WCDMA Band 2

SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 27/4/2026

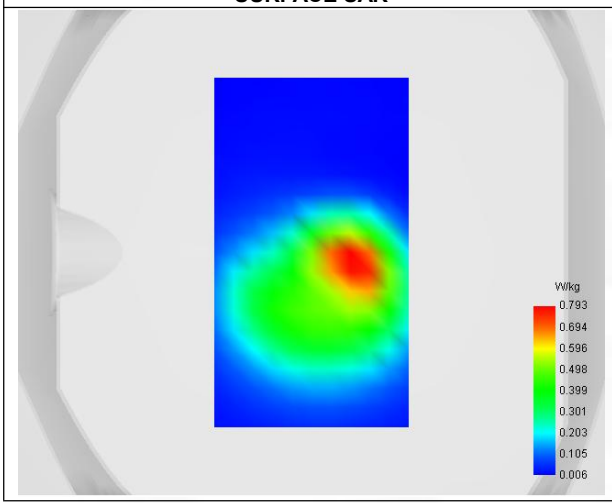
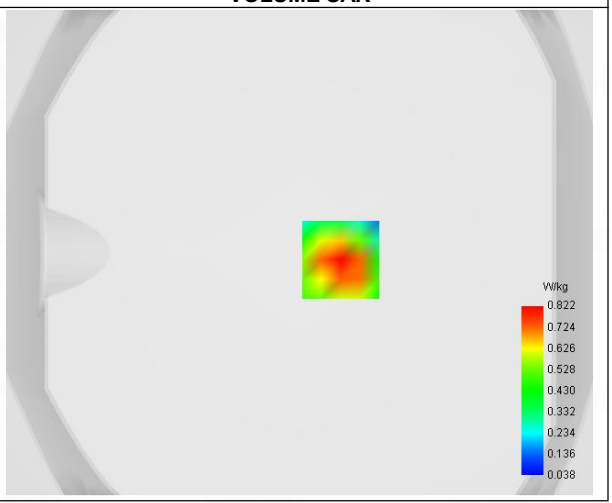
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Channels/Frequency	Higher (9538)/ frequency 1907.600 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permitivity

Middle TX Frequency (MHz)	1907.600
Relative permitivity (real part)	40.291
Relative permitivity (imaginary part)	13.840
Conductivity (S/m)	1.384

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=17.00, Y=-3.00 ; SAR Peak: 1.17 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.470
SAR 1g (W/Kg)	0.774
Variation (%)	-1.330
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.264209

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.159	0.822	0.537	0.363	0.248	0.173	0.123

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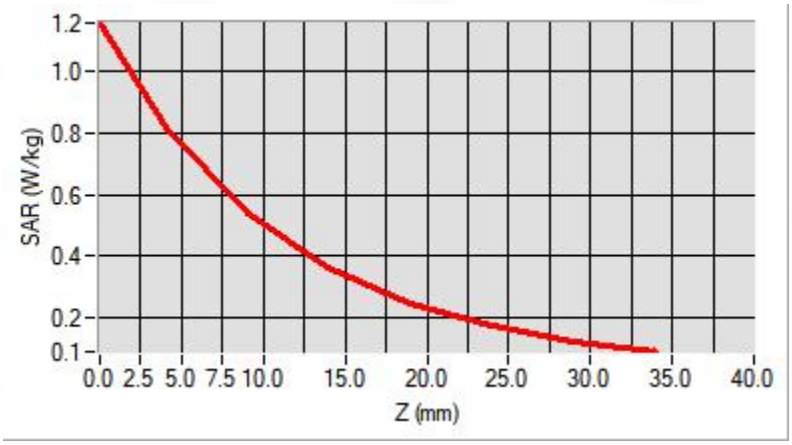
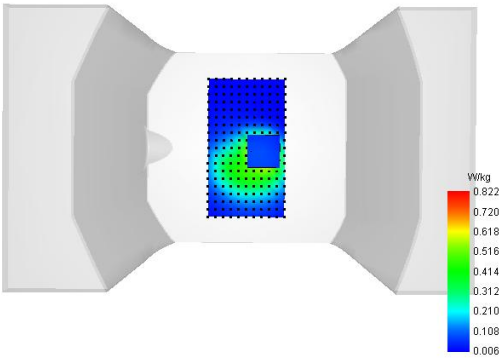
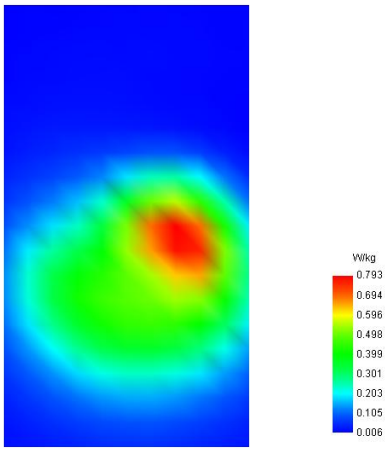


F. 3D Image

3D screen shot	Hot spot position
	

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4-Body/Limb with back position in dist. 0mm on Channel 1312 in WCDMA Band 4

SAR Measurement at Band 4 (1700) (Body, Validation Plane)

Date of measurement: 26/4/2026

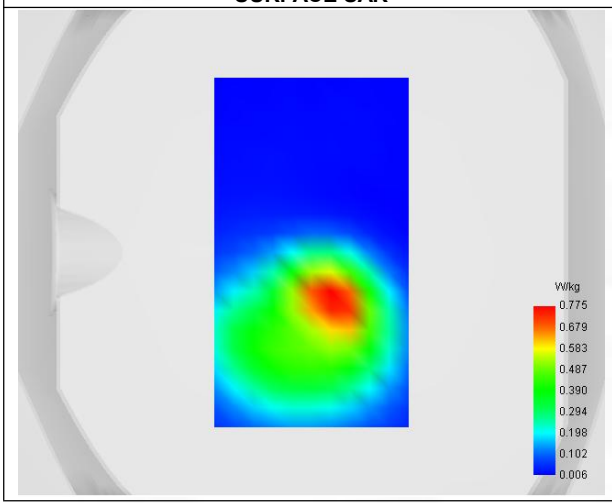
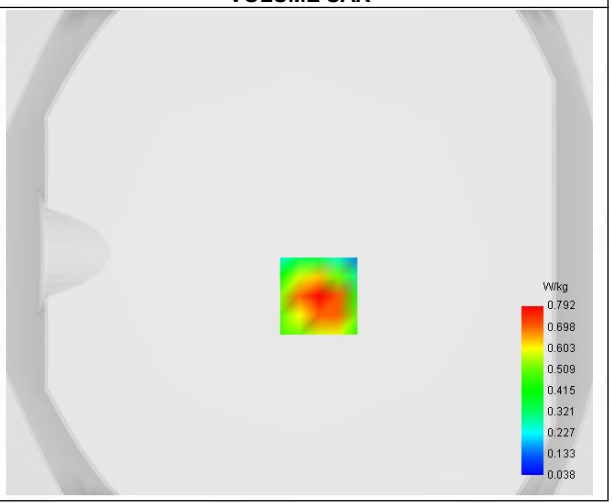
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels/Frequency	Lower (1312)/ frequency 1712.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permitivity

Middle TX Frequency (MHz)	1712.400
Relative permitivity (real part)	40.516
Relative permitivity (imaginary part)	15.430
Conductivity (S/m)	1.339

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-18.00 ; SAR Peak: 1.11 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.457
SAR 1g (W/Kg)	0.721
Variation (%)	-1.290
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.415539

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.101	0.792	0.526	0.356	0.246	0.171	0.122

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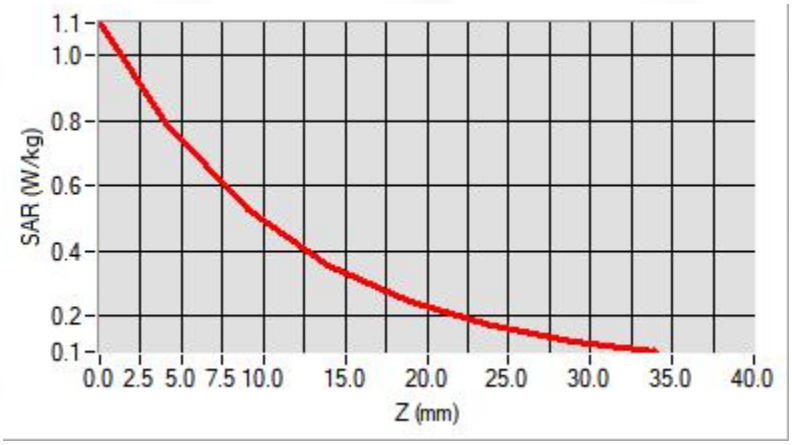
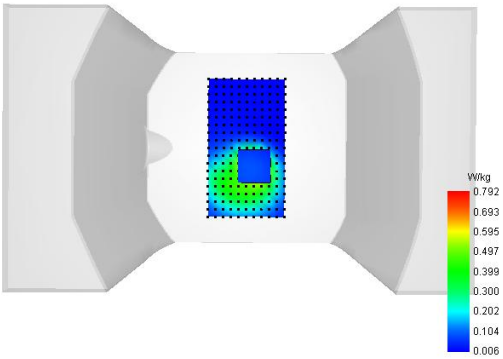
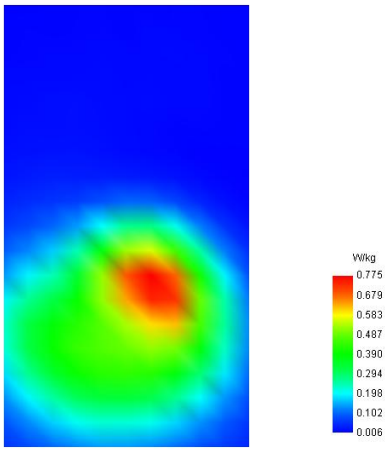


F. 3D Image

3D screen shot	Hot spot position
	

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5-Body/Limb with back position in dist. 0mm on Channel 4132 in WCDMA Band 5

SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 24/4/2026

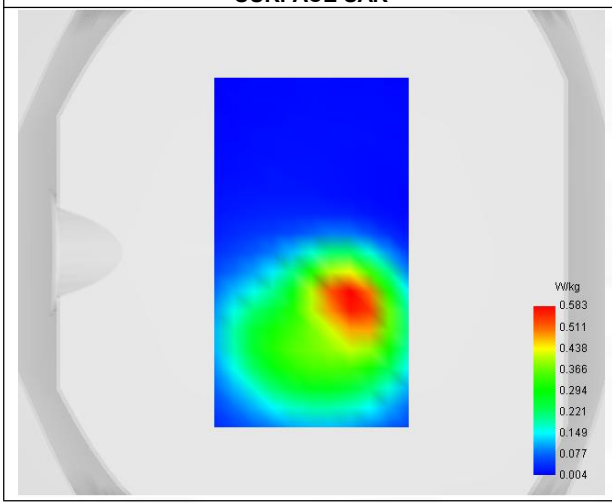
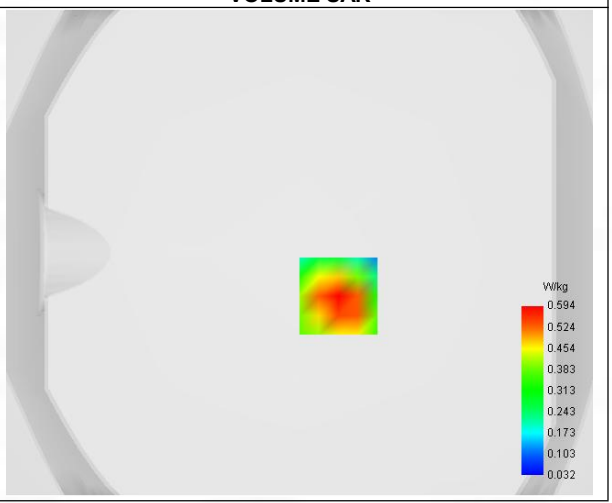
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels/Frequency	Lower (4132)/ frequency 826.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permitivity

Middle TX Frequency (MHz)	826.400
Relative permitivity (real part)	43.719
Relative permitivity (imaginary part)	19.234
Conductivity (S/m)	0.883

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=16.00, Y=-18.00 ; SAR Peak: 0.84 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.351
SAR 1g (W/Kg)	0.578
Variation (%)	0.450
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.075711

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.821	0.594	0.398	0.272	0.192	0.134	0.099

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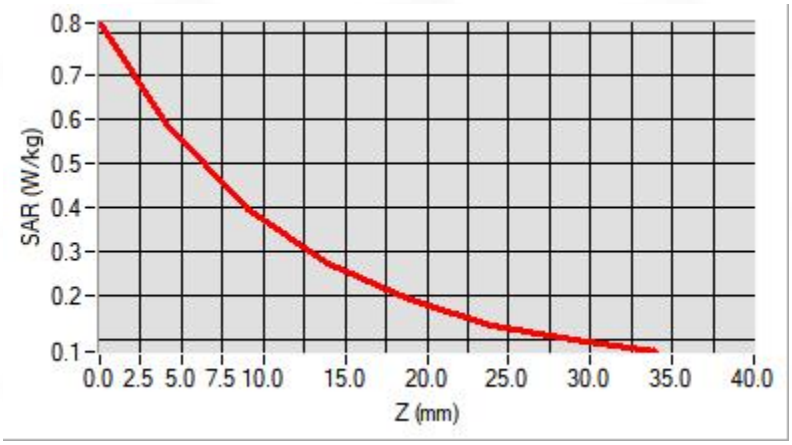
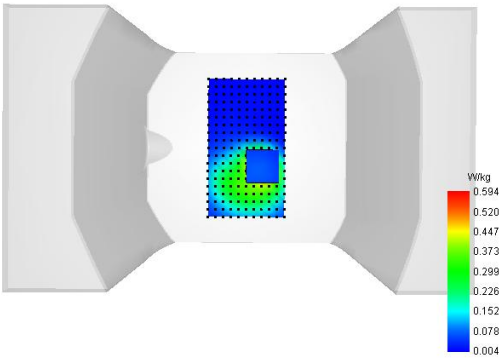
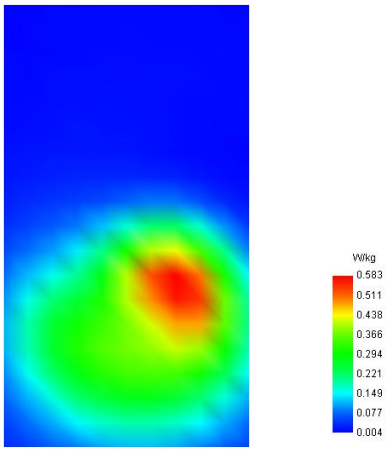


F. 3D Image

3D screen shot	Hot spot position
	

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6-Body/Limb with back position in dist. 0mm on Channel 19100 in LTE band 2

SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 27/4/2026

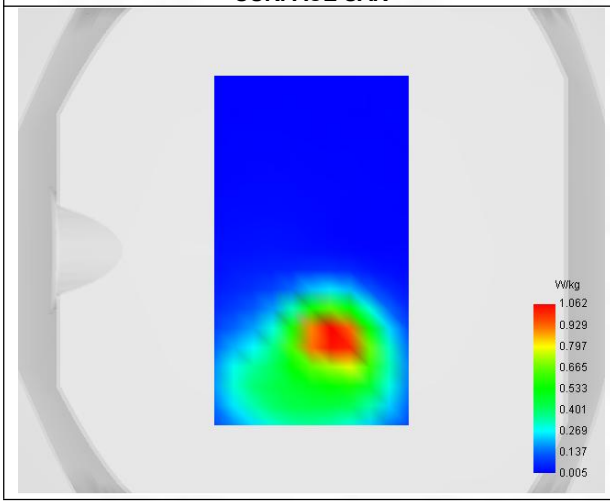
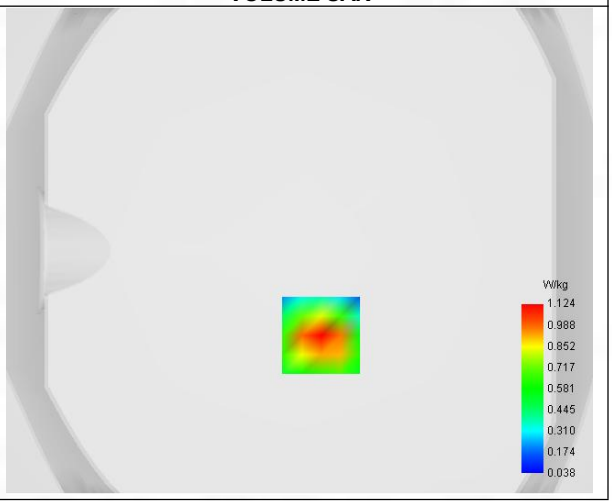
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels/Frequency	Higher (19100)/ frequency 1900.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	1900.090
Relative permitivity (real part)	40.312
Relative permitivity (imaginary part)	13.845
Conductivity (S/m)	1.378

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-35.00 ; SAR Peak: 1.64 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.594
SAR 1g (W/Kg)	1.017
Variation (%)	0.260
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.727601

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.647	1.124	0.694	0.436	0.284	0.191	0.131

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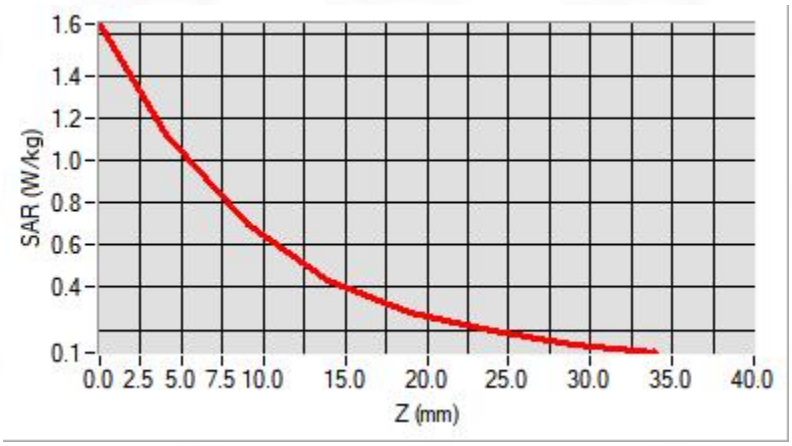
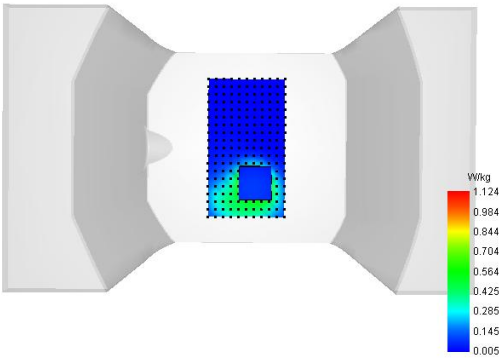
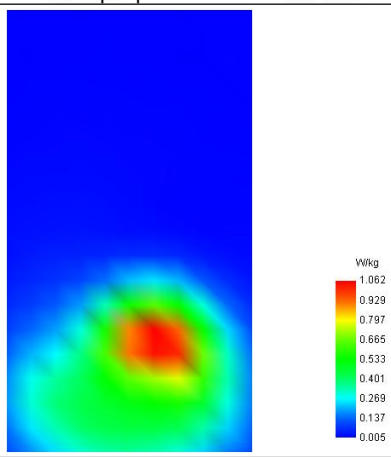


F. 3D Image

3D screen shot	Hot spot position
	

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7-Body/Limb with back position in dist. 0mm on Channel 20050 in LTE band 4

SAR Measurement at LTE band 4 (Body, Validation Plane)

Date of measurement: 26/4/2026

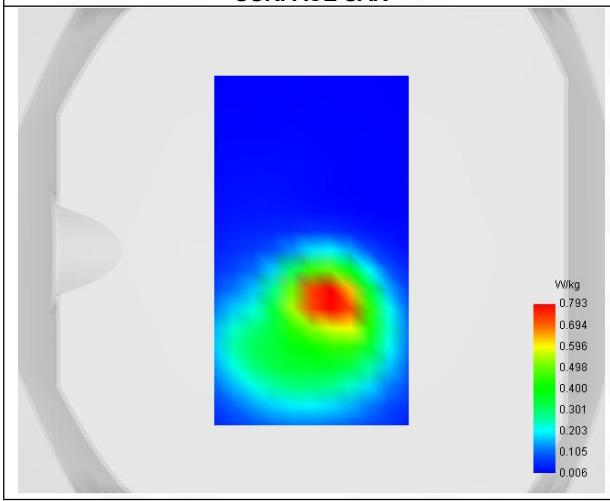
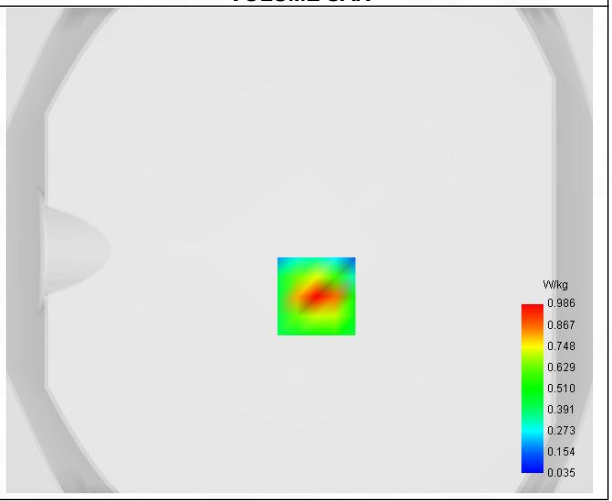
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels/Frequency	Middle (20175)/ frequency 1732.500 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	1732.590
Relative permitivity (real part)	40.485
Relative permitivity (imaginary part)	15.332
Conductivity (S/m)	1.349

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=-19.00 ; SAR Peak: 1.46 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.509
SAR 1g (W/Kg)	0.904
Variation (%)	4.460
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.073892

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.438	0.986	0.612	0.390	0.255	0.172	0.120

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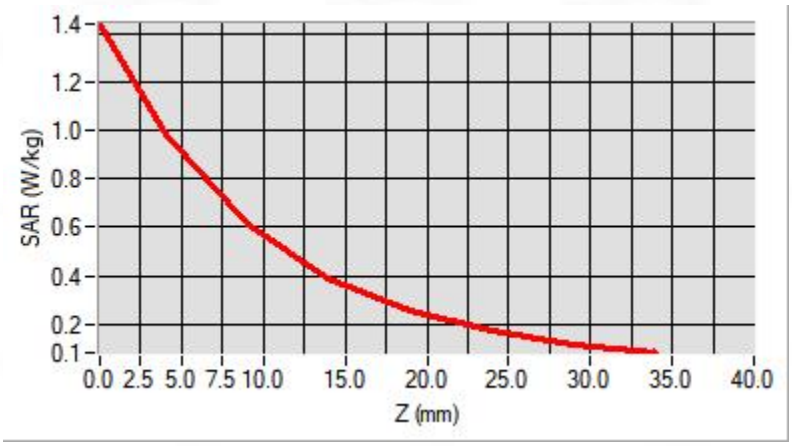
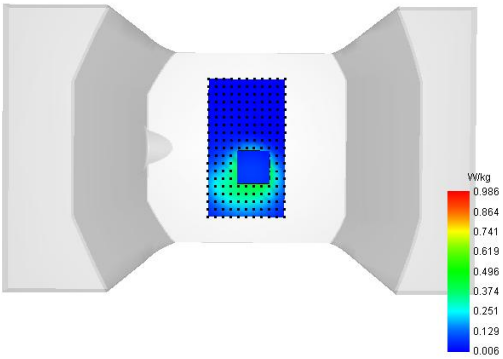
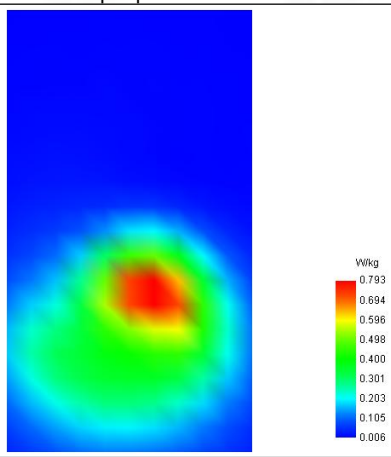


F. 3D Image

3D screen shot	Hot spot position
	

8-Body/Limb with back position in dist. 0mm on Channel 20450 in LTE band 5

SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 24/4/2026

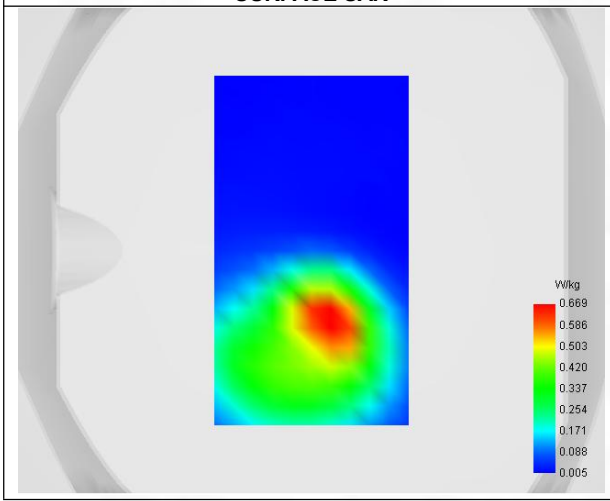
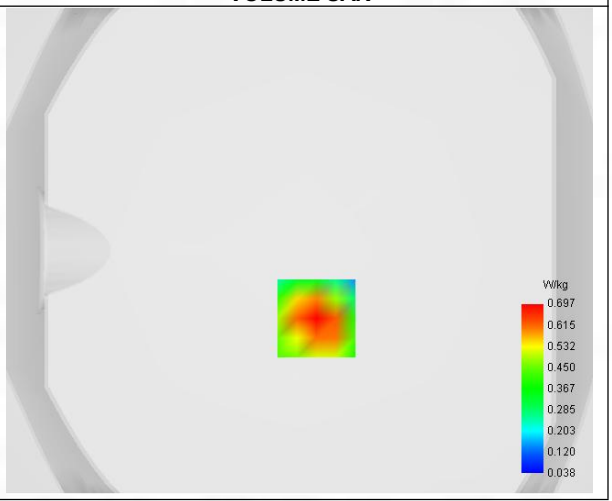
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels/Frequency	Lower (20450)/ frequency 829.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	829.090
Relative permitivity (real part)	41.862
Relative permitivity (imaginary part)	19.769
Conductivity (S/m)	0.875

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=-28.00 ; SAR Peak: 0.98 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.405
SAR 1g (W/Kg)	0.638
Variation (%)	-1.450
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.698865

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.967	0.697	0.465	0.317	0.220	0.154	0.110

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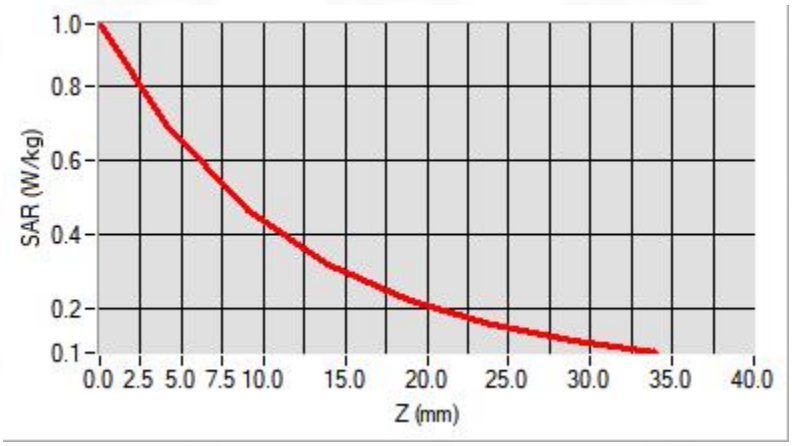
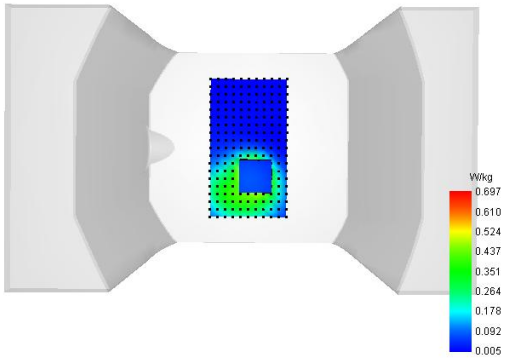
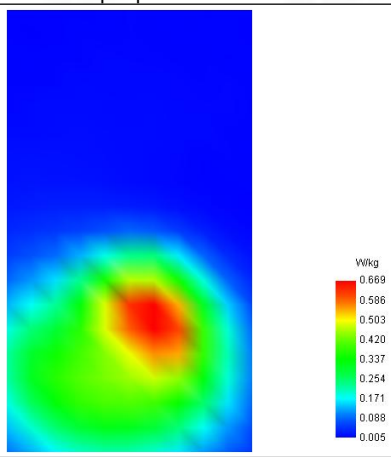


F. 3D Image

3D screen shot	Hot spot position
	

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9-Body/Limb with back position in dist. 0mm on Channel 21350 in LTE band 7

SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 29/4/2026

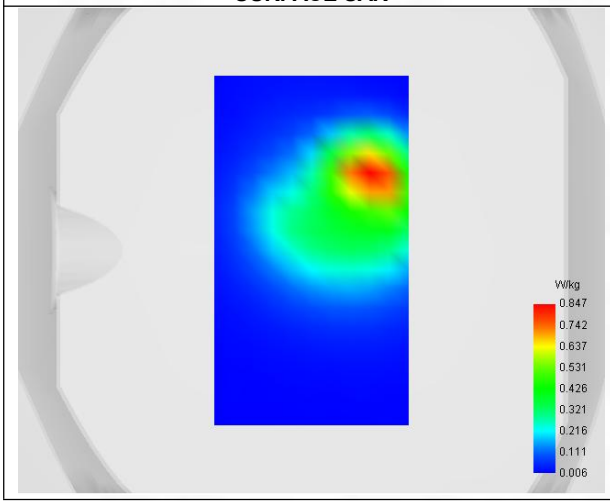
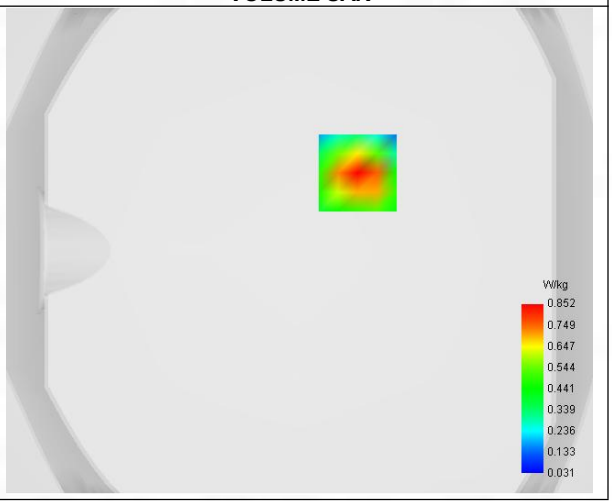
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.26
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels/Frequency	Higher (21350)/ frequency 2560.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	2560.910
Relative permitivity (real part)	38.725
Relative permitivity (imaginary part)	12.836
Conductivity (S/m)	1.905

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=24.00, Y=32.00 ; SAR Peak: 1.27 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.455
SAR 1g (W/Kg)	0.816
Variation (%)	-4.030
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.489567

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.263	0.852	0.524	0.342	0.225	0.154	0.104

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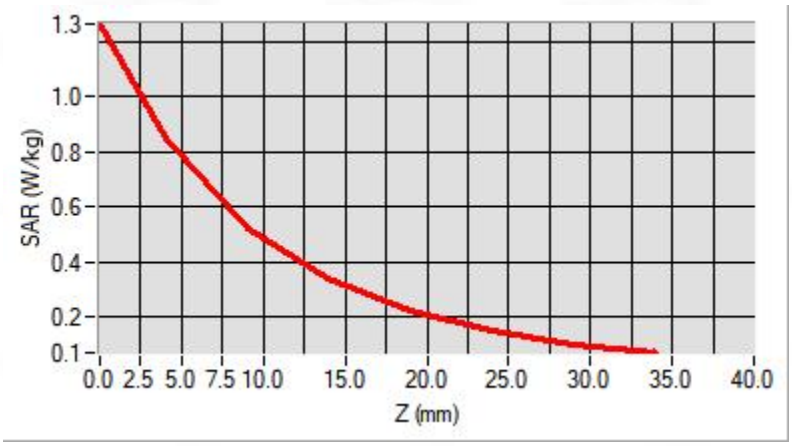
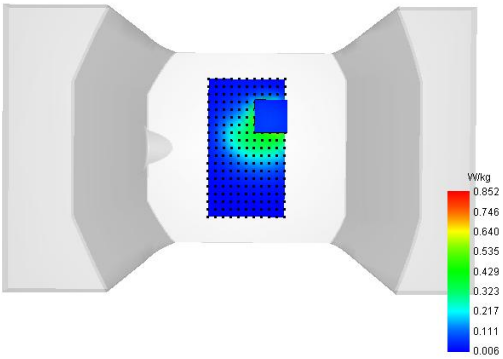
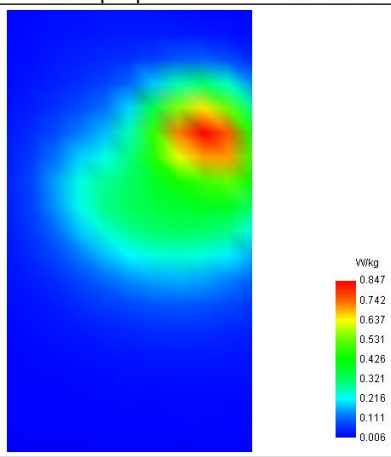


F. 3D Image

3D screen shot	Hot spot position
	

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10-Body/Limb with back position in dist. 0mm on Channel 23060 in LTE band 12

SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 23/4/2026

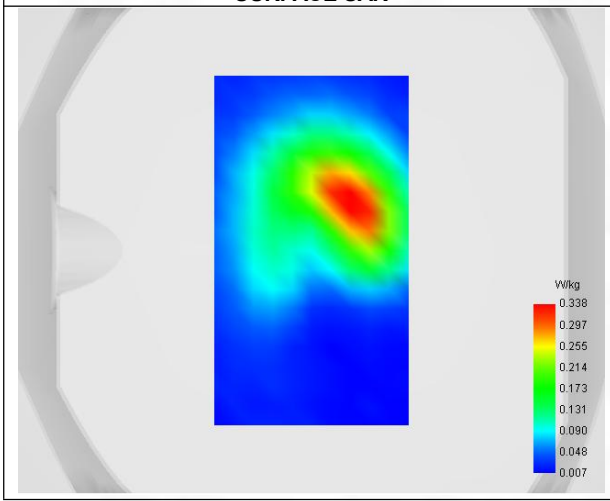
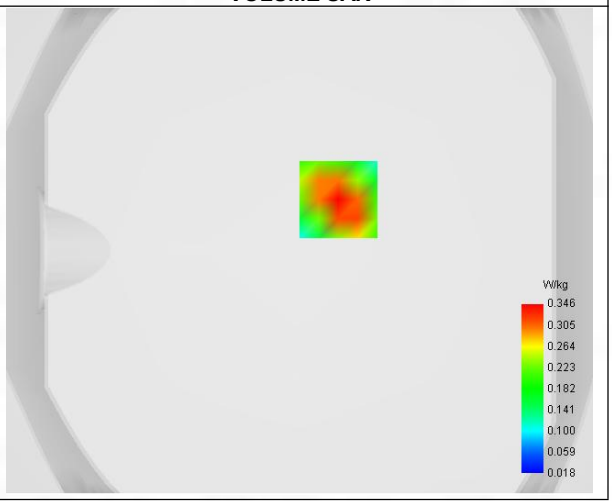
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels/Frequency	Lower (23060)/ frequency 704.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	704.090
Relative permitivity (real part)	42.678
Relative permitivity (imaginary part)	21.955
Conductivity (S/m)	0.850

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=16.00, Y=21.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.331
Variation (%)	-3.350
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	61.811436

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.514	0.346	0.214	0.145	0.096	0.065	0.045

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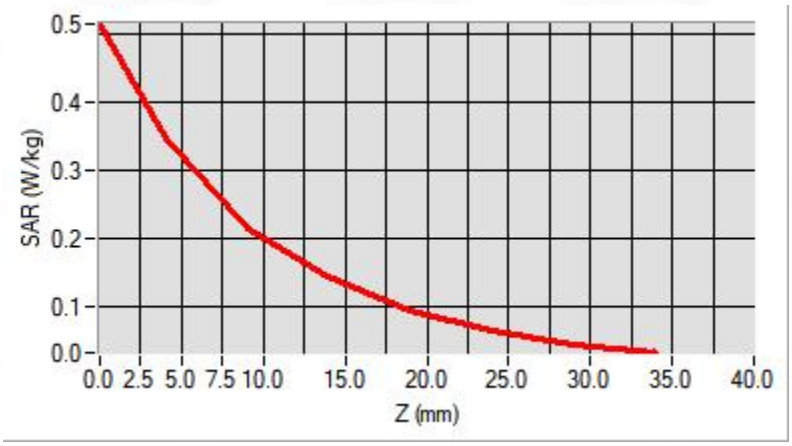
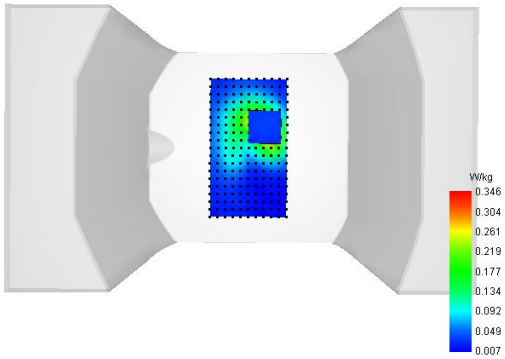
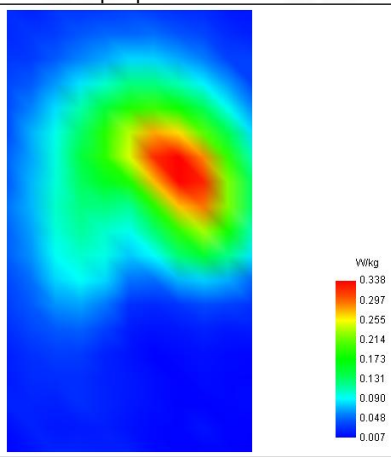


F. 3D Image

3D screen shot	Hot spot position
	

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11-Body/Limb with back position in dist. 0mm on Channel 23230 in LTE band 13

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 23/4/2026

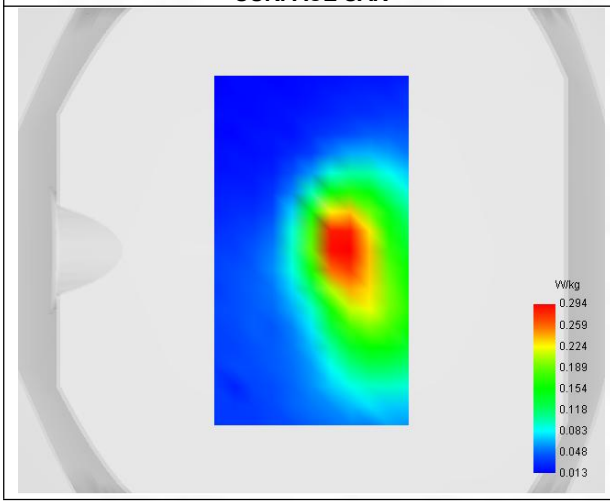
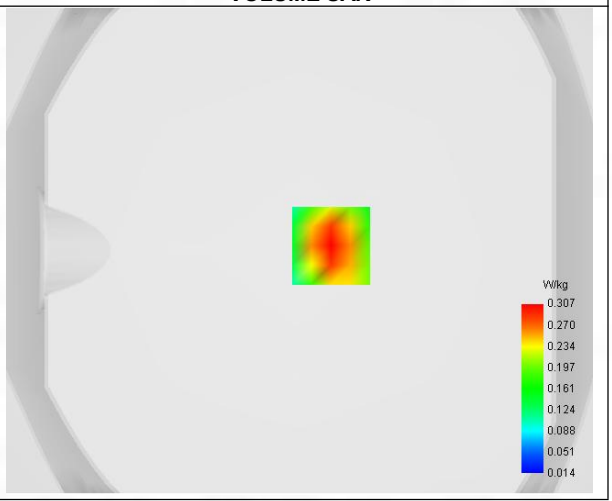
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 13
Channels/Frequency	Middle (23230)/ frequency 782.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	782.090
Relative permitivity (real part)	42.168
Relative permitivity (imaginary part)	20.591
Conductivity (S/m)	0.865

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=13.00, Y=2.00 ; SAR Peak: 0.43 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.292
Variation (%)	-2.180
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.759175

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.429	0.307	0.202	0.134	0.091	0.062	0.043

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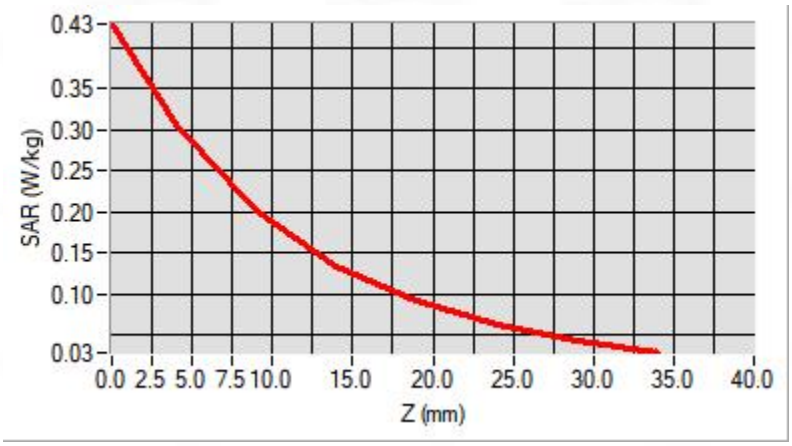
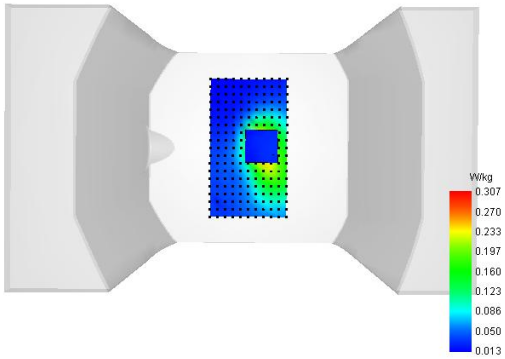
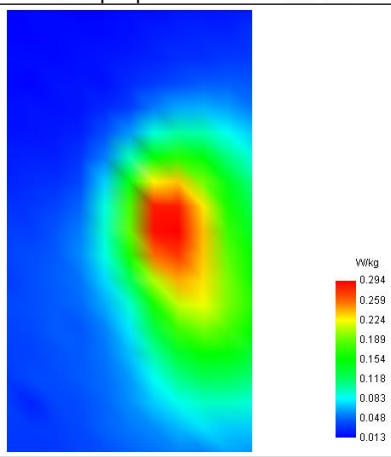


F. 3D Image

3D screen shot	Hot spot position
	

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12-Body/Limb with back position in dist. 0mm on Channel 23330 in LTE band 14

SAR Measurement at LTE band 14 (Body, Validation Plane)

Date of measurement: 23/4/2026

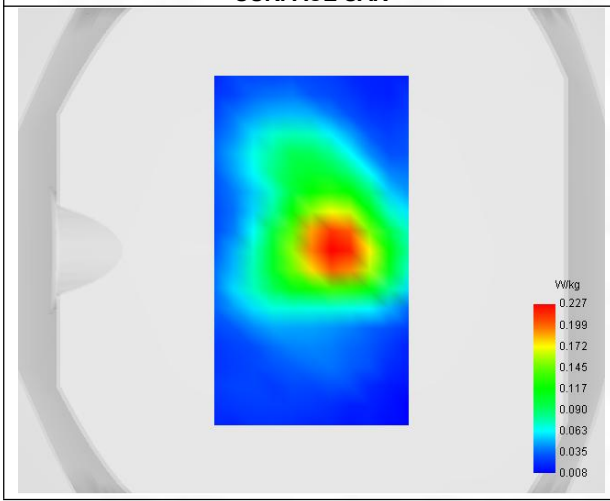
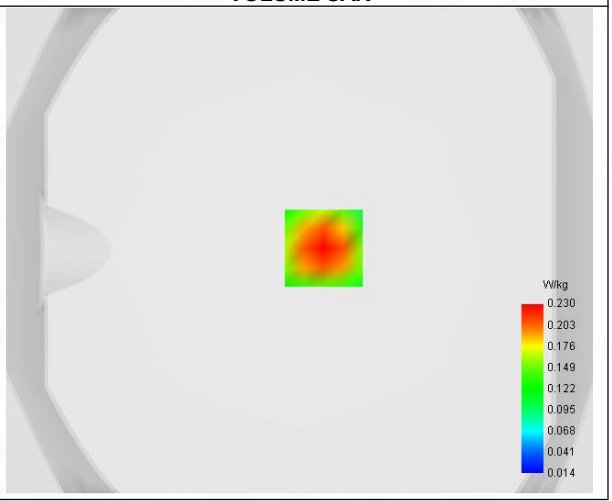
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 14
Channels/Frequency	Middle (23330)/ frequency 793.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	793.090
Relative permitivity (real part)	42.097
Relative permitivity (imaginary part)	20.399
Conductivity (S/m)	0.868

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=1.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.138
SAR 1g (W/Kg)	0.225
Variation (%)	4.130
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.366957

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.309	0.230	0.159	0.106	0.077	0.051	0.038

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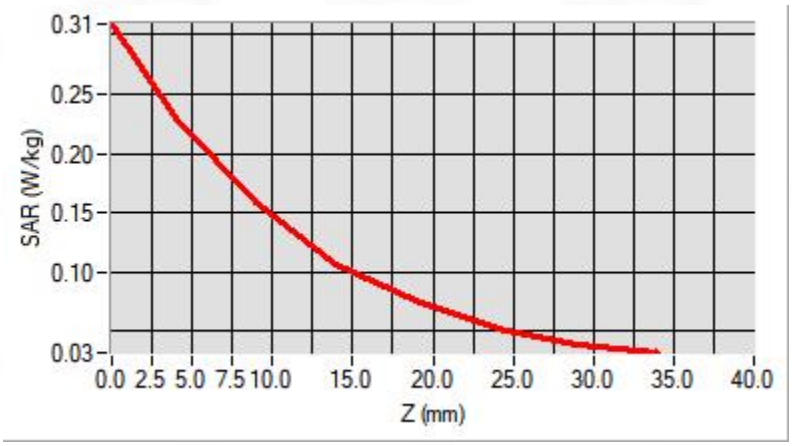
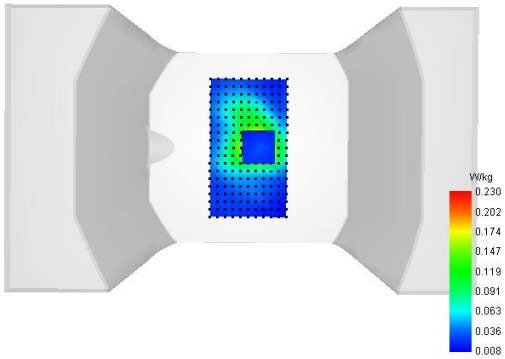
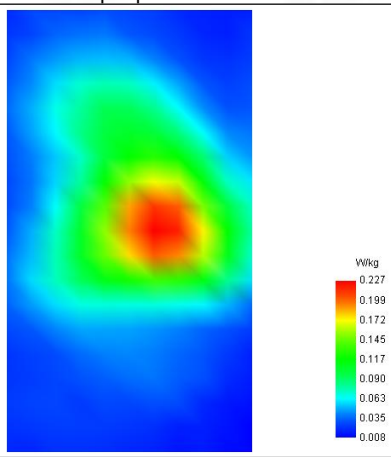


F. 3D Image

3D screen shot	Hot spot position
	

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13-Body/Limb with back position in dist. 0mm on Channel 23800 in LTE band 17

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 23/4/2026

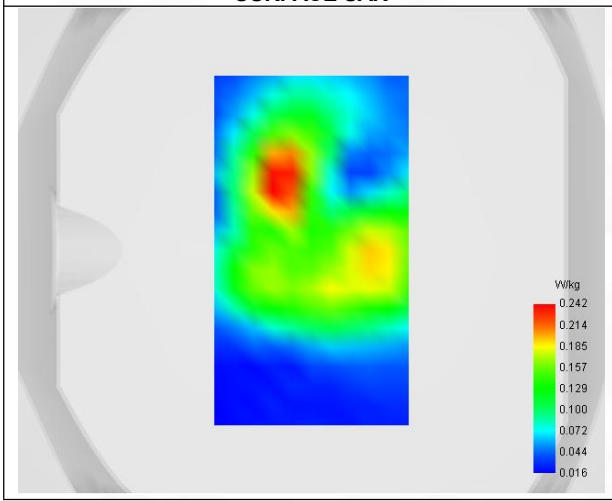
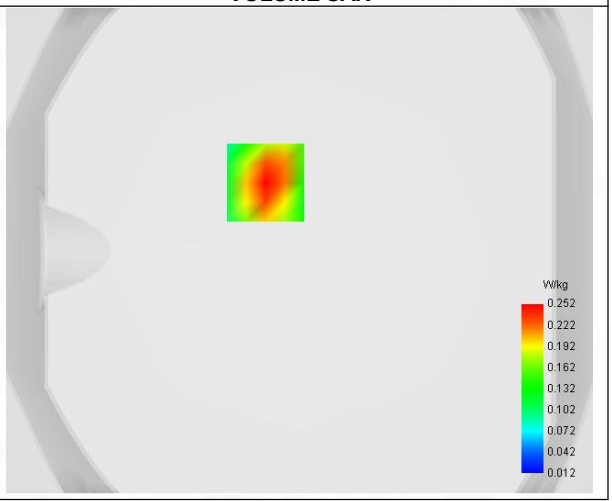
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels/Frequency	Higher (23800)/ frequency 711.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	711.090
Relative permitivity (real part)	42.632
Relative permitivity (imaginary part)	21.832
Conductivity (S/m)	0.851

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-14.00, Y=28.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.239
Variation (%)	1.130
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.223898

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.383	0.252	0.149	0.088	0.057	0.041	0.025

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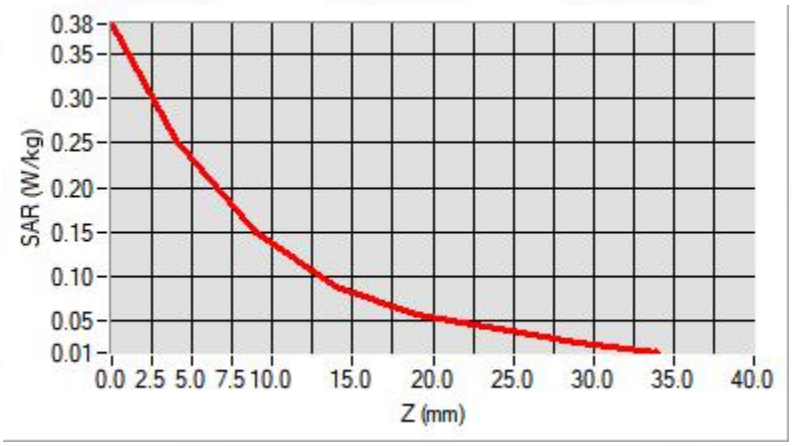
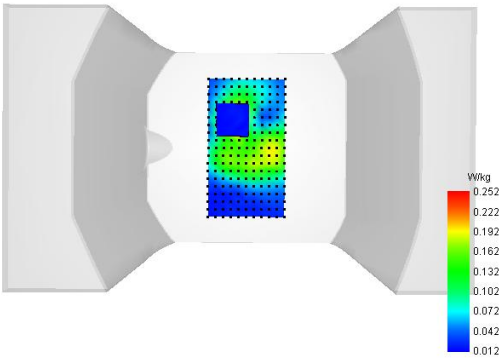
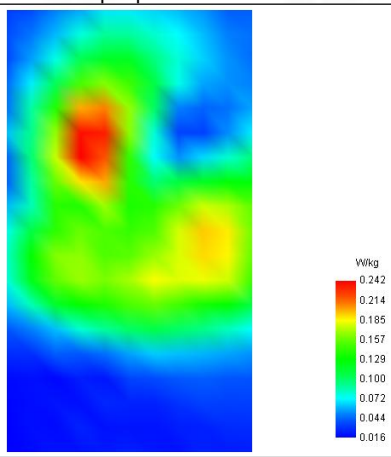


F. 3D Image

3D screen shot	Hot spot position
	

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14-Body/Limb with back position in dist. 0mm on Channel 26590 in LTE band 25

SAR Measurement at LTE band 25 (Body, Validation Plane)

Date of measurement: 27/4/2026

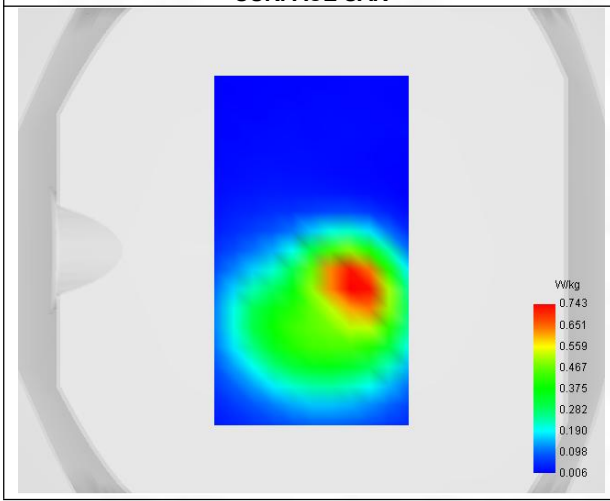
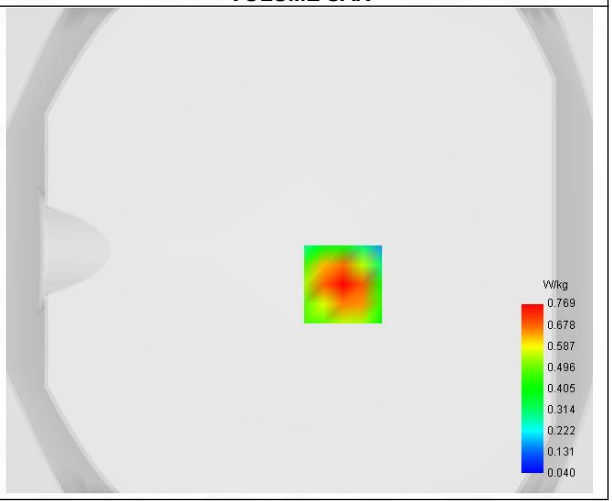
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 25
Channels/Frequency	Higher (26590)/ frequency 1905.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	1905.090
Relative permitivity (real part)	40.298
Relative permitivity (imaginary part)	13.841
Conductivity (S/m)	1.382

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=18.00, Y=-14.00 ; SAR Peak: 1.09 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.444
SAR 1g (W/Kg)	0.717
Variation (%)	-2.040
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.390296

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.066	0.769	0.511	0.347	0.239	0.166	0.121

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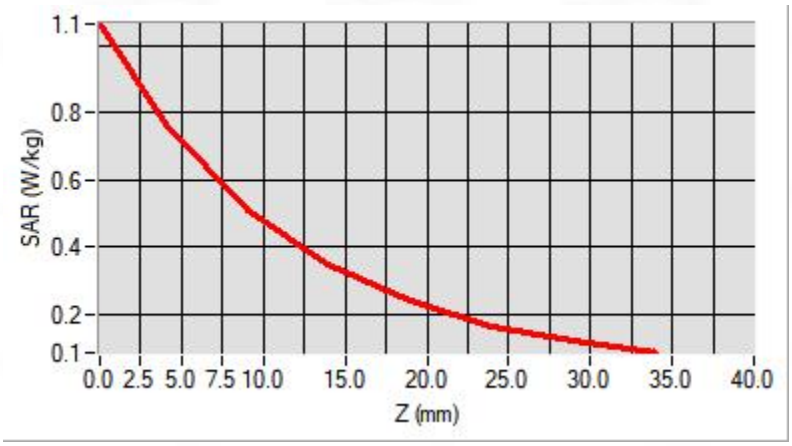
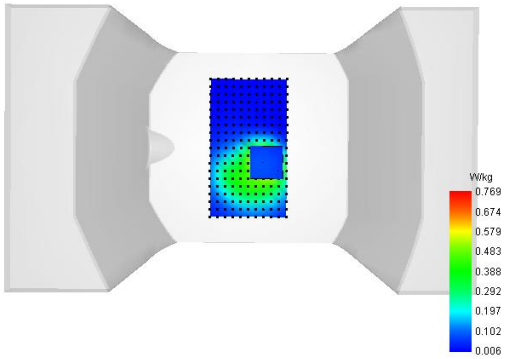
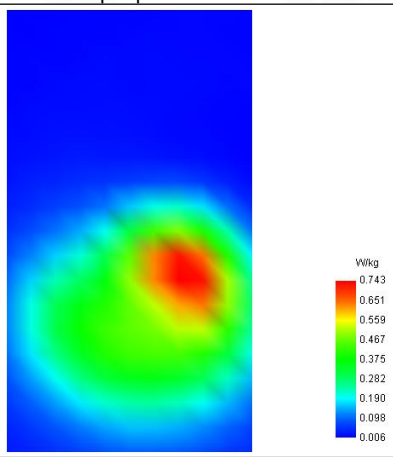


F. 3D Image

3D screen shot	Hot spot position
	

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15-Body/Limb with back position in dist. 0mm on Channel 26740 in LTE band 26 part 90

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 24/4/2026

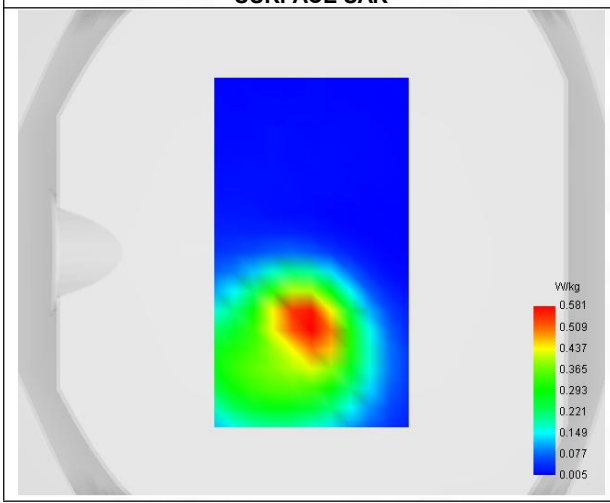
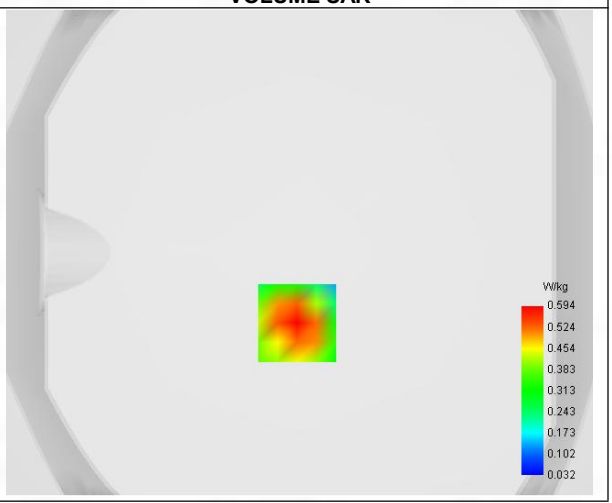
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Lower (26740)/ frequency 819.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	819.090
Relative permitivity (real part)	41.927
Relative permitivity (imaginary part)	19.944
Conductivity (S/m)	0.873

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-29.00 ; SAR Peak: 0.83 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.349
SAR 1g (W/Kg)	0.532
Variation (%)	-2.140
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.965515

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00

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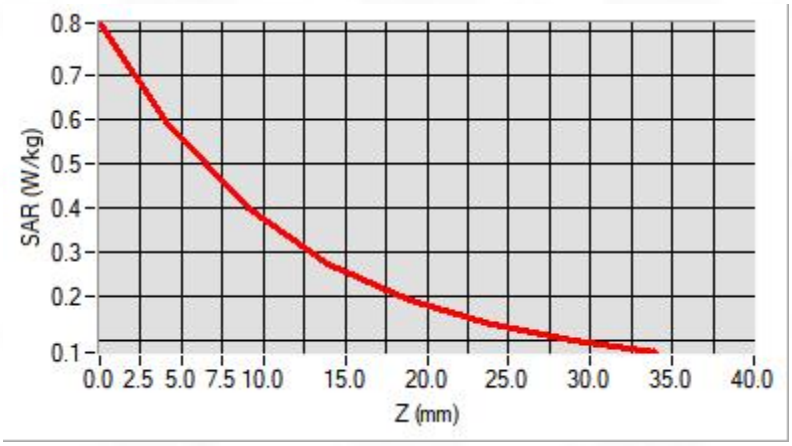
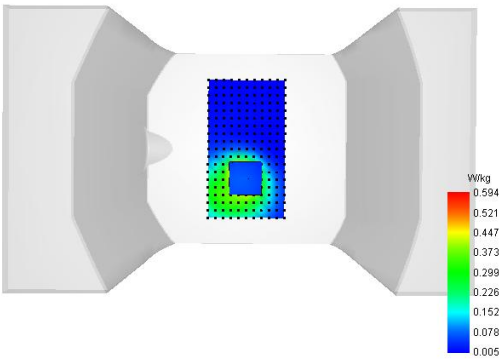
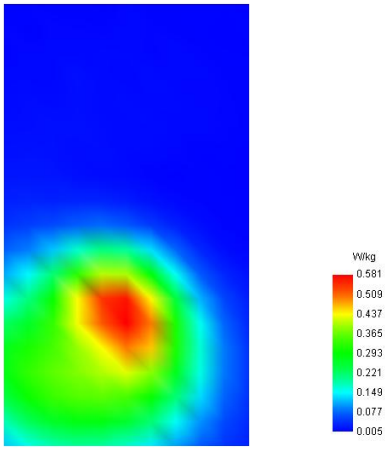
SAR (W/Kg)	0.820	0.594	0.398	0.272	0.189	0.136	0.098



F. 3D Image

3D screen shot	Hot spot position
	

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16-Body/Limb with back position in dist. 0mm on Channel 26765 in LTE band 26 part 22

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 24/4/2026

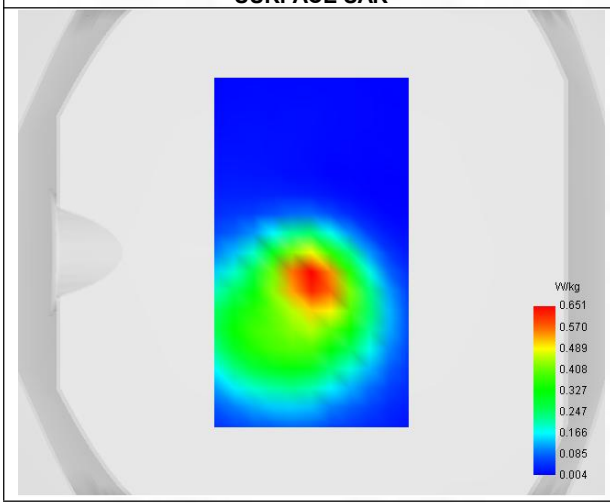
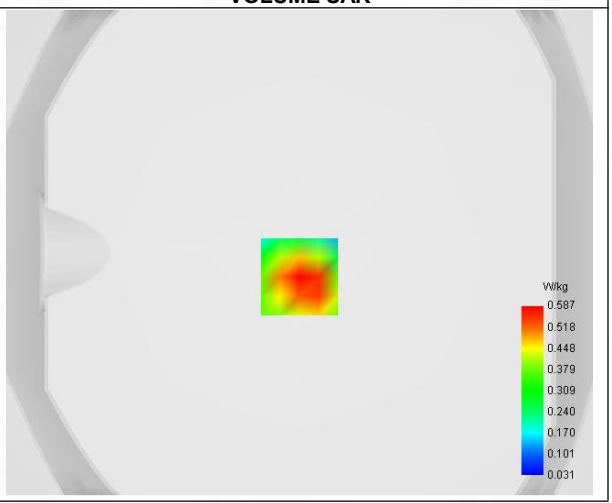
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Lower (26765)/ frequency 821.500 Mhz
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	821.680
Relative permitivity (real part)	41.910
Relative permitivity (imaginary part)	19.899
Conductivity (S/m)	0.873

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-10.00 ; SAR Peak: 0.83 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.346
SAR 1g (W/Kg)	0.579
Variation (%)	-3.770
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.506872

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00

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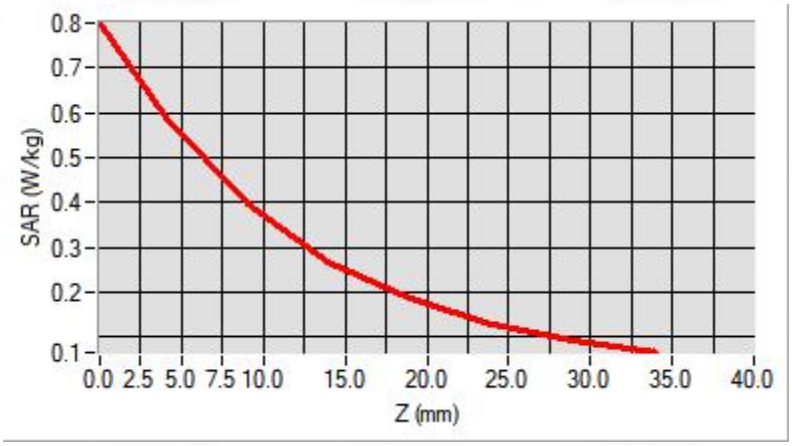
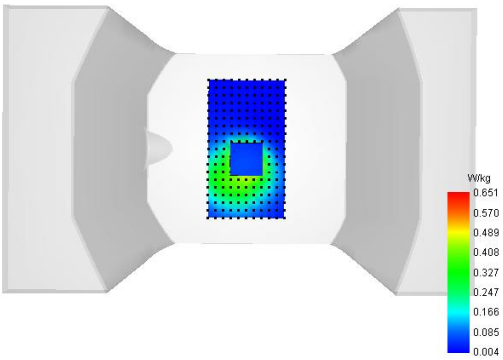
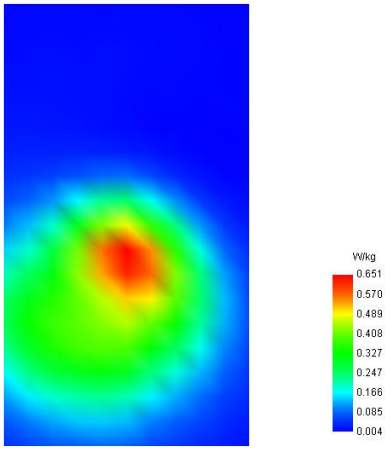
SAR (W/Kg)	0.799	0.587	0.396	0.268	0.184	0.129	0.092



F. 3D Image

3D screen shot	Hot spot position
	

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17-Body/Limb with back position in dist. 0mm on Channel 38150 in LTE band 38

SAR Measurement at LTE band 38 (Body, Validation Plane)

Date of measurement: 29/4/2026

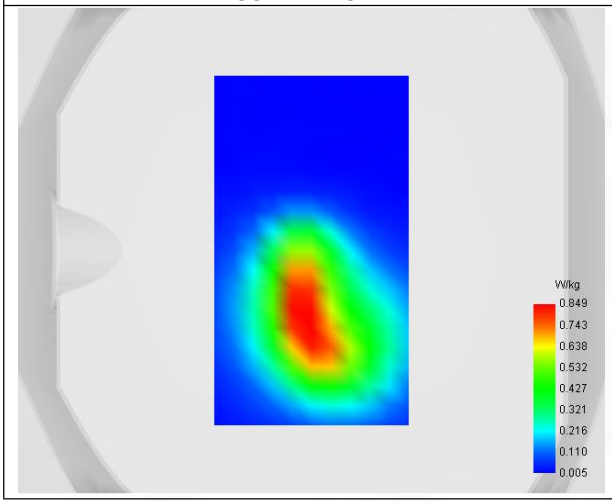
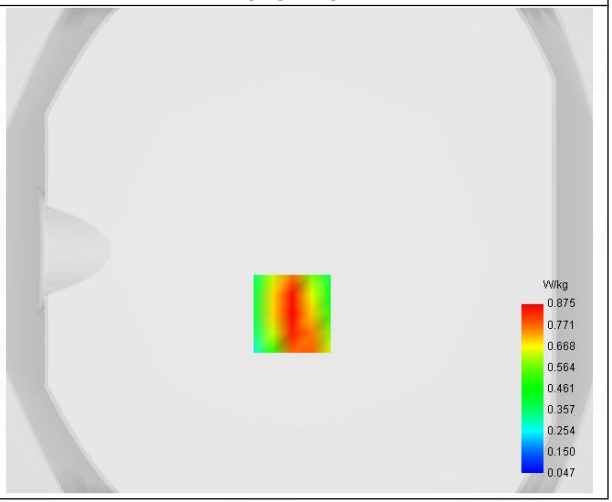
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.26
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 38
Channels/Frequency	Higher (38150)/ frequency 2610.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permitivity

Middle TX Frequency (MHz)	2609.910
Relative permitivity (real part)	38.703
Relative permitivity (imaginary part)	12.632
Conductivity (S/m)	1.941

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=-26.00 ; SAR Peak: 1.33 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.482
SAR 1g (W/Kg)	0.831
Variation (%)	-3.750
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.724870

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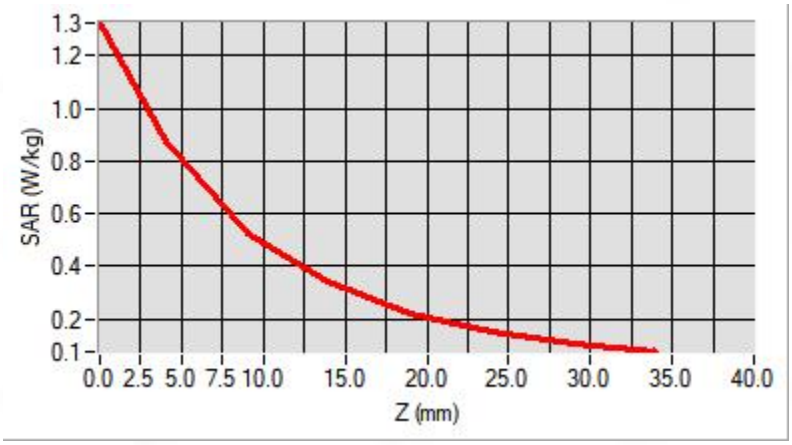
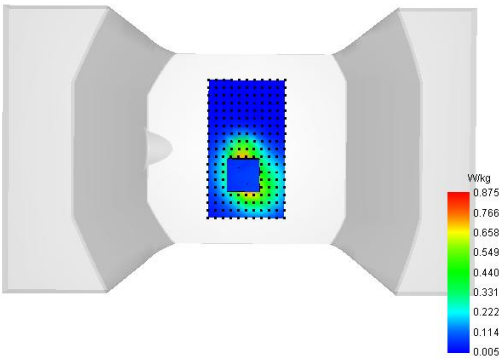
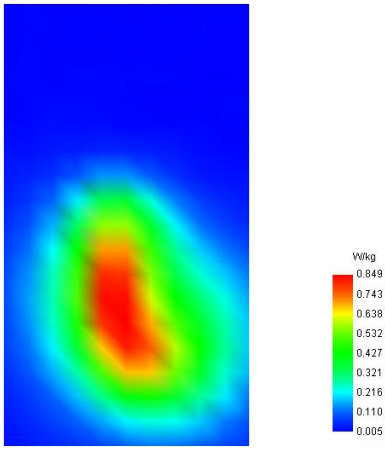
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.324	0.875	0.523	0.343	0.224	0.156	0.111



F. 3D Image

3D screen shot	Hot spot position
	

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18-Body/Limb with back position in dist. 0mm on Channel 41490 in LTE band 41

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 29/4/2026

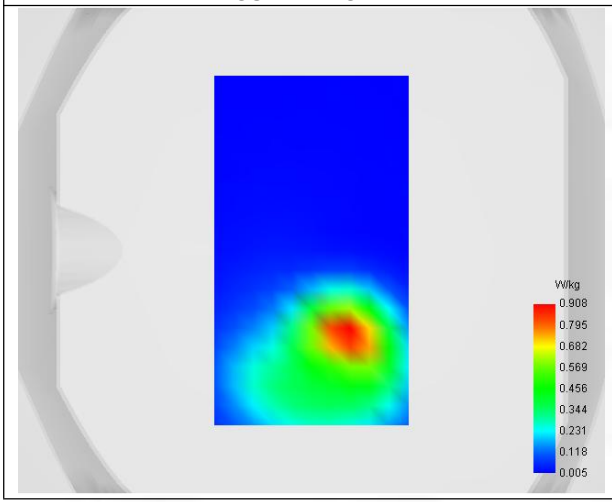
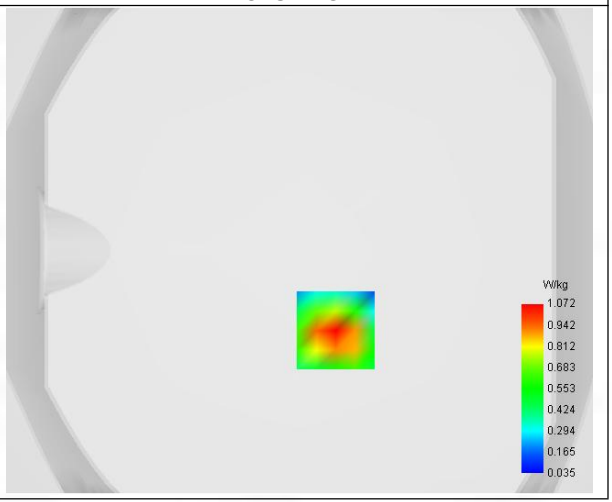
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.26
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels/Frequency	Higher (41490)/ frequency 2680.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permitivity

Middle TX Frequency (MHz)	2680.090
Relative permitivity (real part)	38.642
Relative permitivity (imaginary part)	12.735
Conductivity (S/m)	2.011

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=15.00, Y=-33.00 ; SAR Peak: 1.59 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.566
SAR 1g (W/Kg)	1.006
Variation (%)	2.590
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.102275

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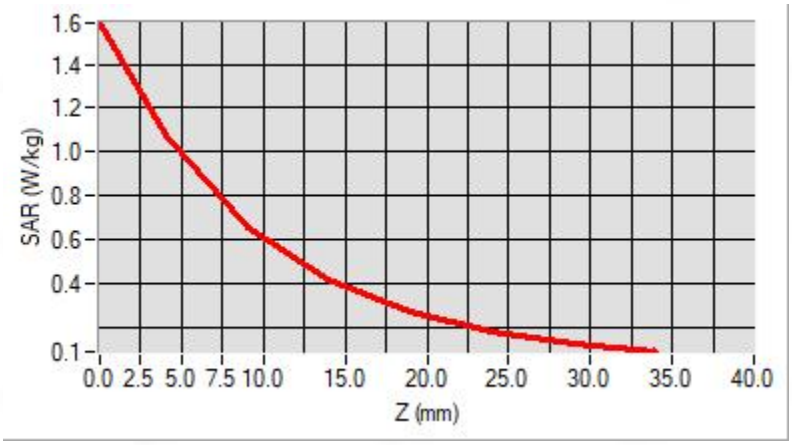
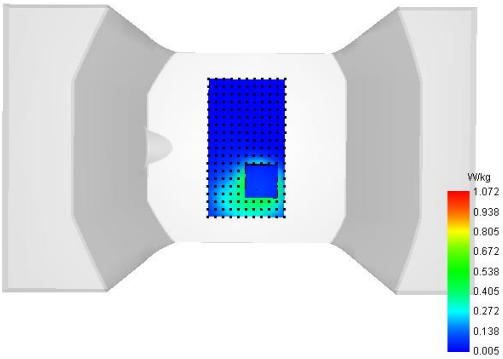
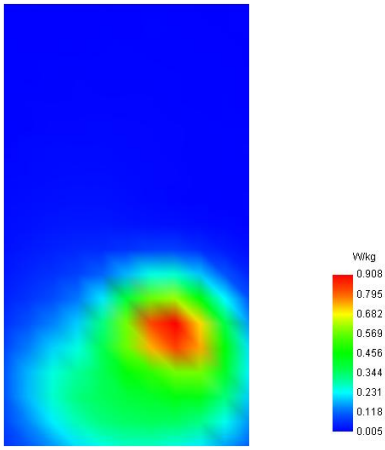
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.589	1.072	0.655	0.412	0.270	0.181	0.123



F. 3D Image

3D screen shot	Hot spot position
	

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19-Body/Limb with back position in dist. 0mm on Channel 132072 in LTE band 66

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 26/4/2026

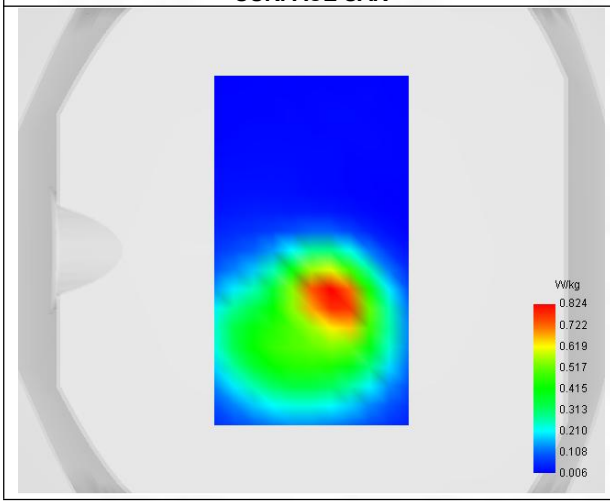
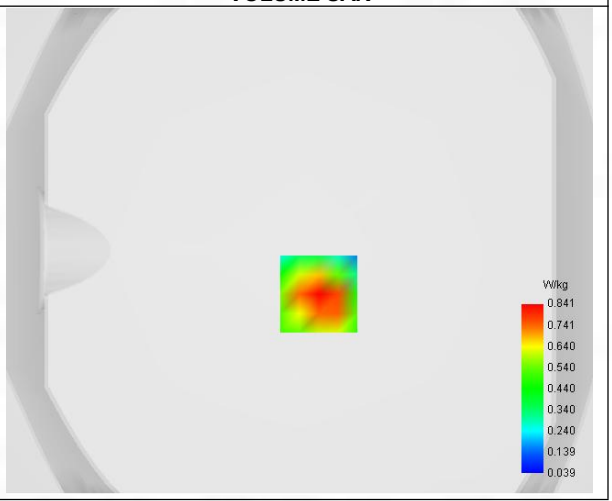
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels/Frequency	Lower (132072)/ frequency 1720.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	1720.090
Relative permitivity (real part)	40.504
Relative permitivity (imaginary part)	15.393
Conductivity (S/m)	1.343

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-18.00 ; SAR Peak: 1.22 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.429
SAR 1g (W/Kg)	0.734
Variation (%)	-0.650
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.648030

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.175	0.841	0.552	0.375	0.255	0.178	0.129

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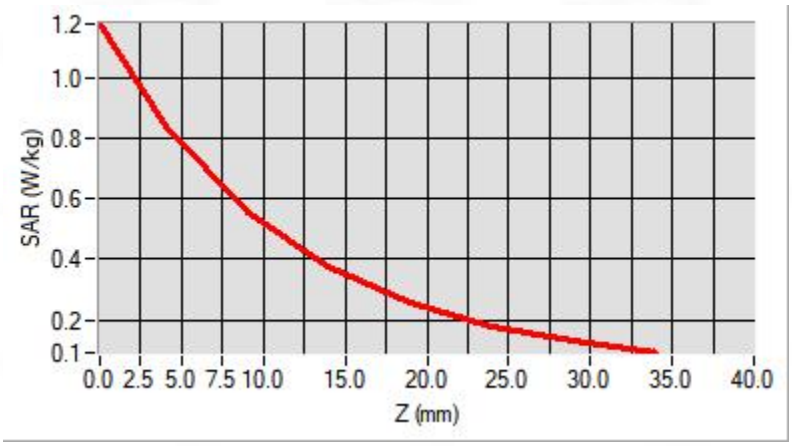
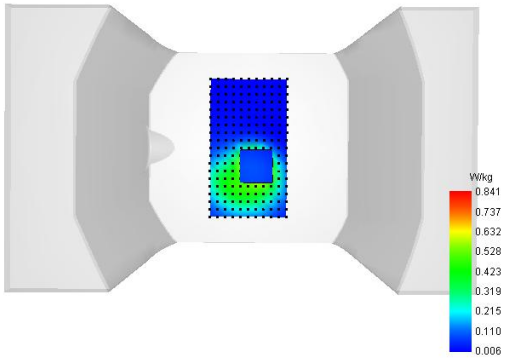
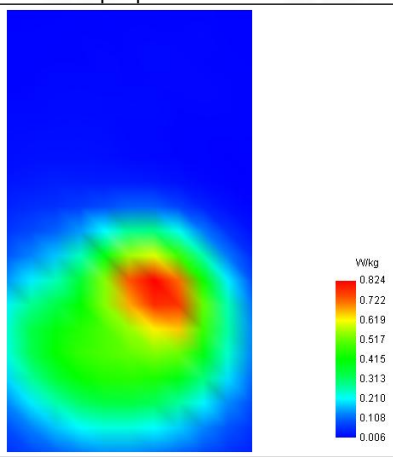


F. 3D Image

3D screen shot	Hot spot position
	

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20-Body/Limb with back position in dist. 0mm on Channel 133222 in LTE band 71

SAR Measurement at LTE band 71 (Body, Validation Plane)

Date of measurement: 23/4/2026

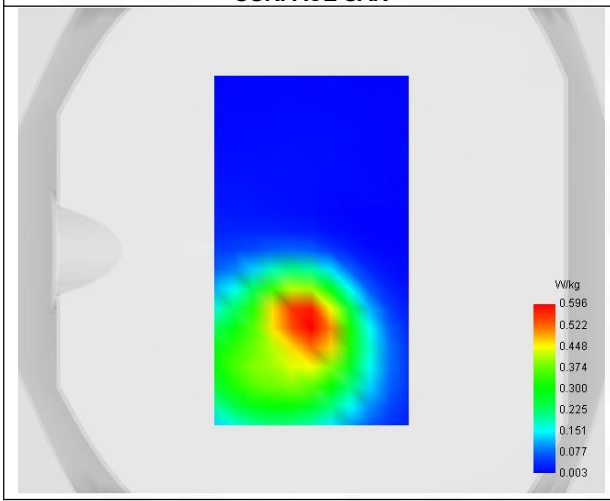
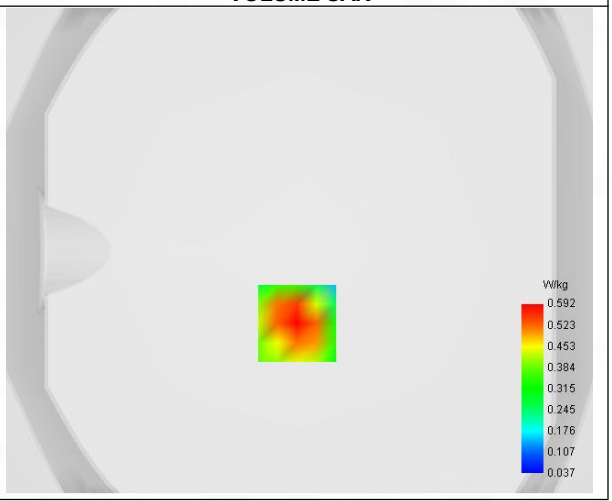
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 71
Channels/Frequency	Lower (133222)/ frequency 673.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permitivity

Middle TX Frequency (MHz)	673.090
Relative permitivity (real part)	42.880
Relative permitivity (imaginary part)	22.497
Conductivity (S/m)	0.864

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-30.00 ; SAR Peak: 0.84 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.350
SAR 1g (W/Kg)	0.515
Variation (%)	-4.210
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	67.183431

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.818	0.592	0.398	0.275	0.193	0.137	0.098

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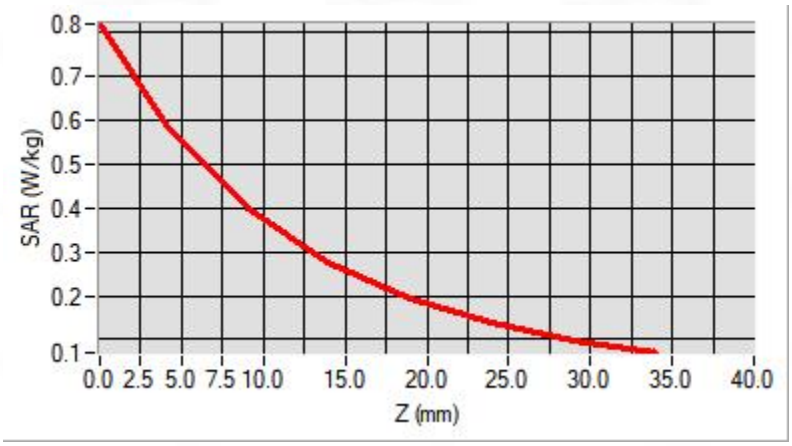
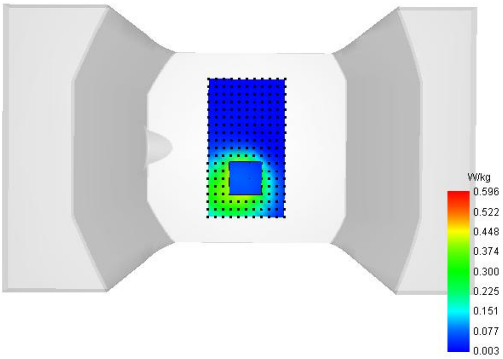
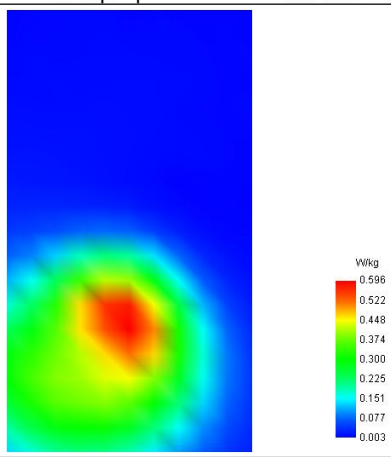


F. 3D Image

3D screen shot	Hot spot position
	

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

SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 28/4/2026

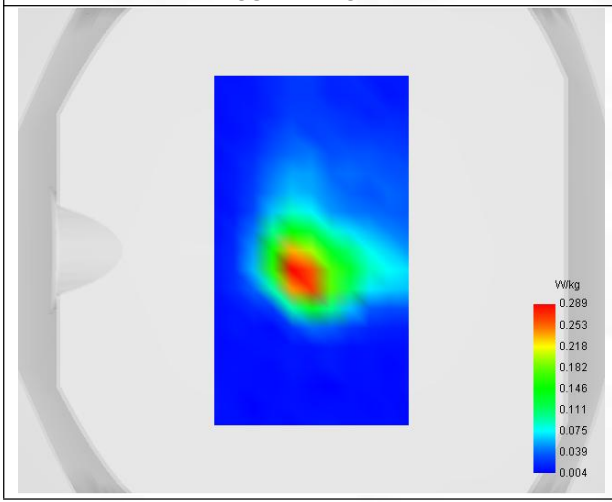
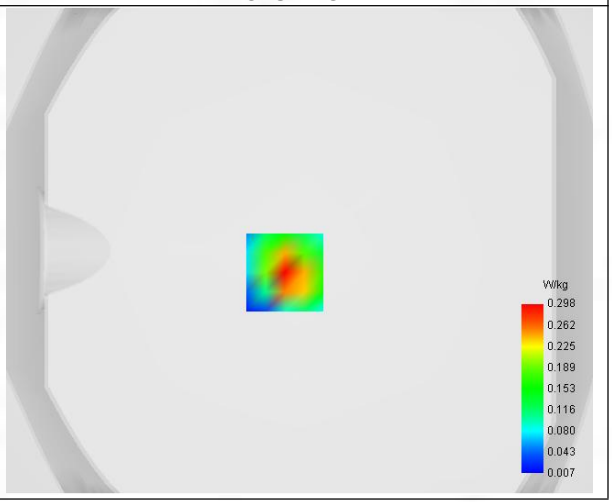
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels/Frequency	Middle (6)/ frequency 2437.000 Mhz
Signal	IEEE 802.11 b

B. Permitivity

Middle TX Frequency (MHz)	2437.000
Relative permitivity (real part)	38.800
Relative permitivity (imaginary part)	13.465
Conductivity (S/m)	1.822

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=-9.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.129
SAR 1g (W/Kg)	0.282
Variation (%)	-3.190
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.675439

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.502	0.298	0.148	0.077	0.042	0.025	0.016

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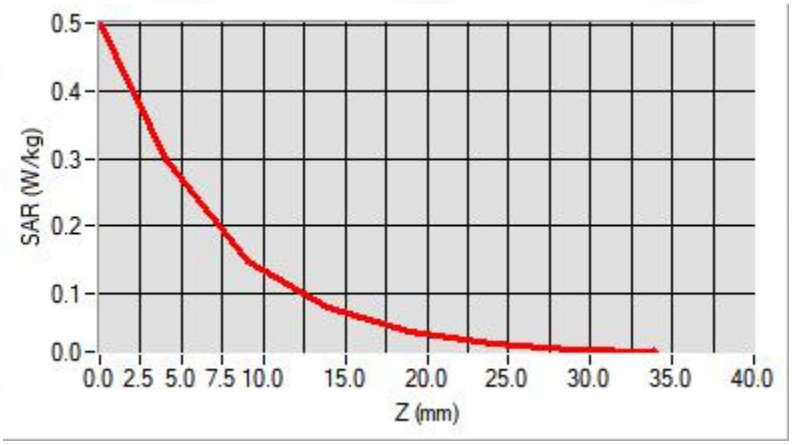
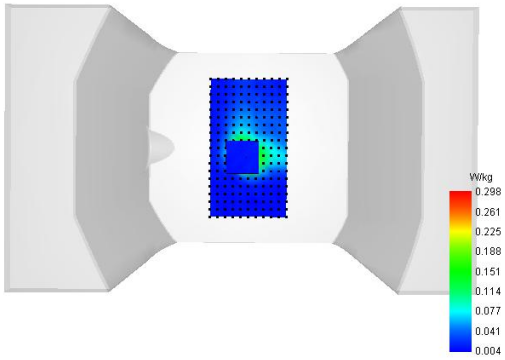
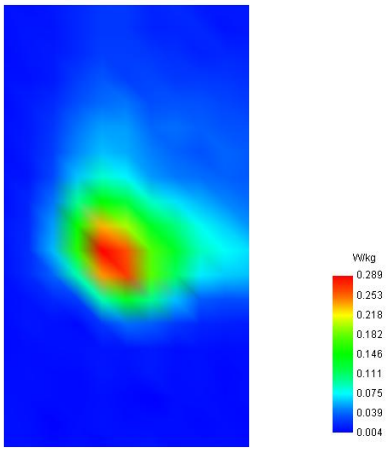


F. 3D Image

3D screen shot	Hot spot position
	

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22-Body/Limb with back position in dist. 0mm on Channel 42 in IEEE 802.11ac U-NII

SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 20/4/2026

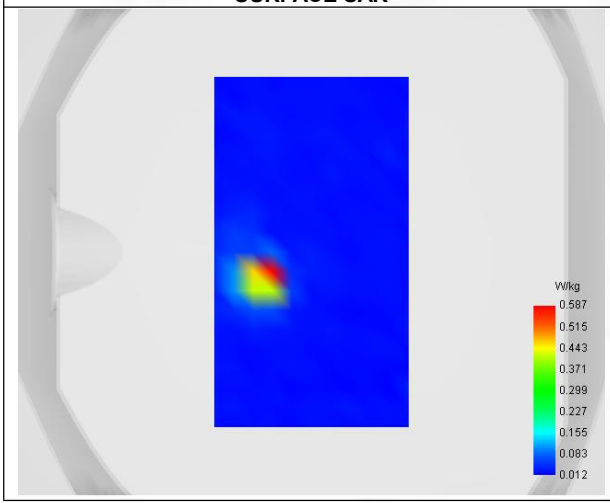
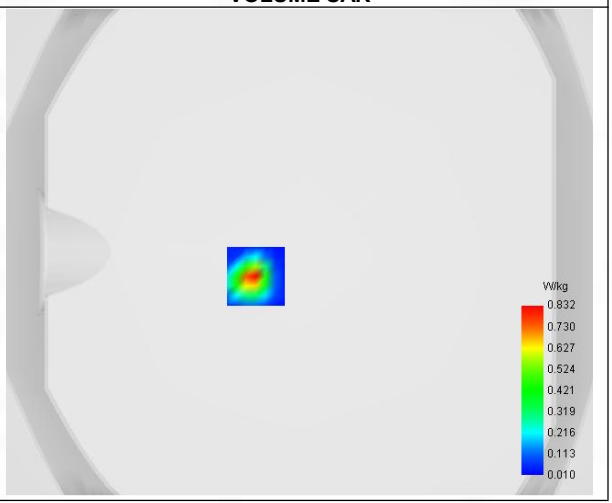
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.16
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Channels/Frequency	Middle (42)/ frequency 5210.000 Mhz
Signal	IEEE 802.11 ac

B. Permitivity

Middle TX Frequency (MHz)	5210.000
Relative permitivity (real part)	36.407
Relative permitivity (imaginary part)	16.447
Conductivity (S/m)	4.539

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

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

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.116
SAR 1g (W/Kg)	0.345
Variation (%)	-1.030
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	54.452494

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.328	0.832	0.453	0.274	0.171	0.104	0.069	0.042	0.033	0.022	0.031	0.022

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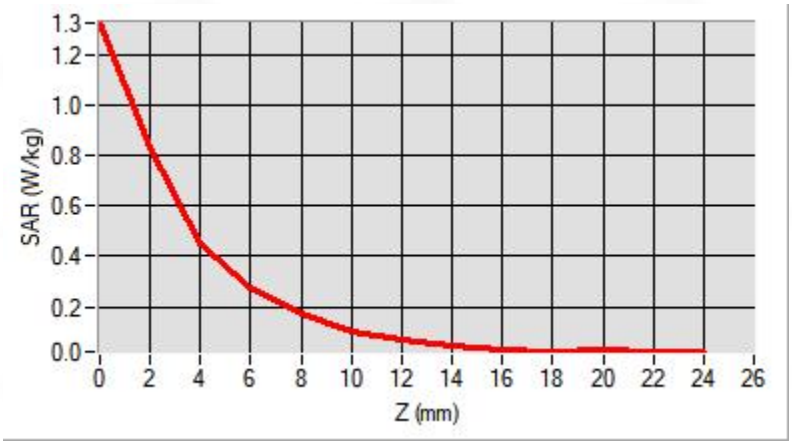
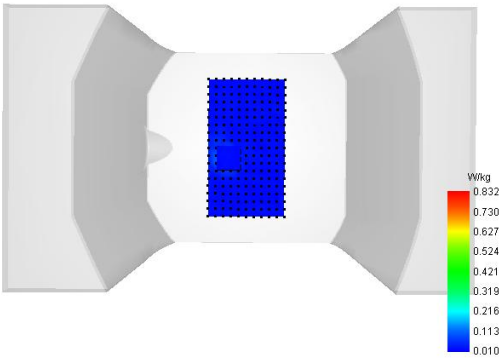
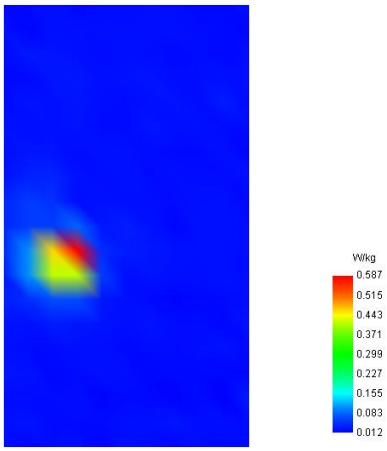


F. 3D Image

3D screen shot	Hot spot position
	

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23-Body/Limb with back position in dist. 0mm on Channel 58 in IEEE 802.11ac U-NII

SAR Measurement at U-NII-2a (Body, Validation Plane)

Date of measurement: 20/4/2026

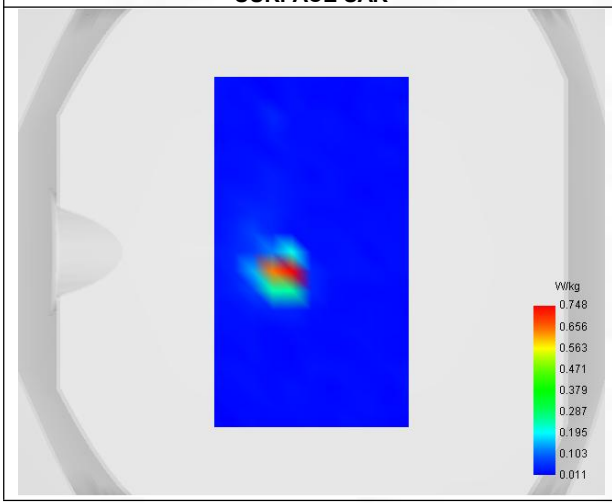
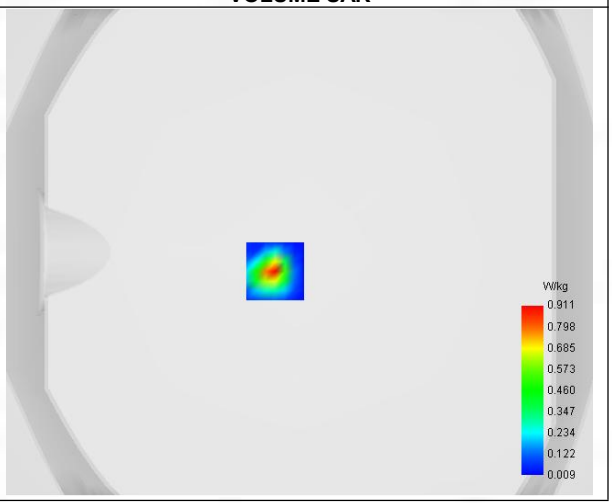
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.16
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2a
Channels/Frequency	Middle (58)/ frequency 5290.000 Mhz
Signal	IEEE 802.11 ac

B. Permitivity

Middle TX Frequency (MHz)	5290.000
Relative permitivity (real part)	36.175
Relative permitivity (imaginary part)	16.496
Conductivity (S/m)	4.671

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-8.00 ; SAR Peak: 1.58 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.120
SAR 1g (W/Kg)	0.382
Variation (%)	0.930
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	55.317260

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.461	0.911	0.504	0.295	0.175	0.108	0.065	0.039	0.033	0.024	0.021	0.018

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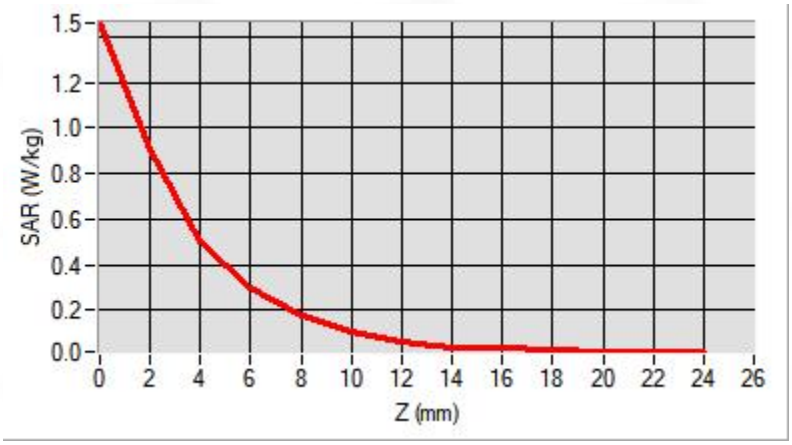
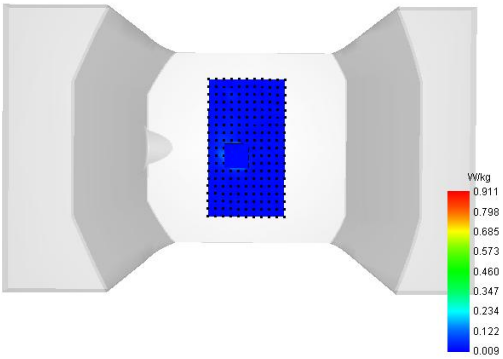
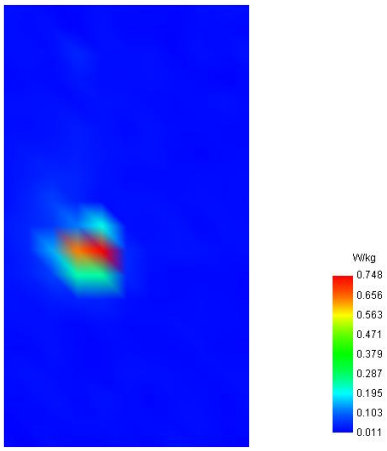


F. 3D Image

3D screen shot	Hot spot position
	

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24-Body/Limb with back position in dist. 0mm on Channel 102 in IEEE 802.11ac U-NII

SAR Measurement at U-NII-2c (Body, Validation Plane)

Date of measurement: 22/4/2026

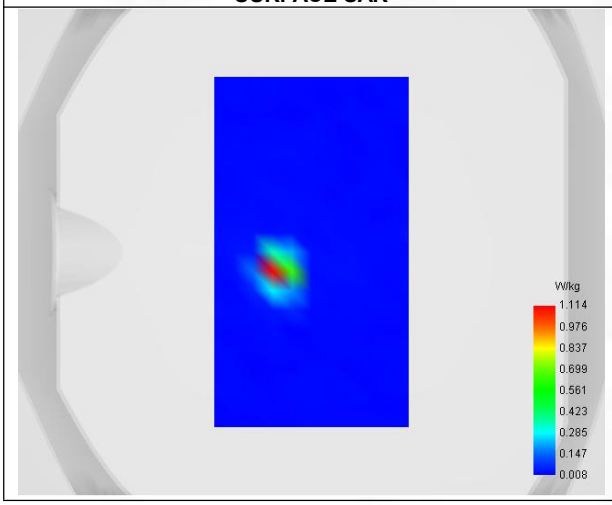
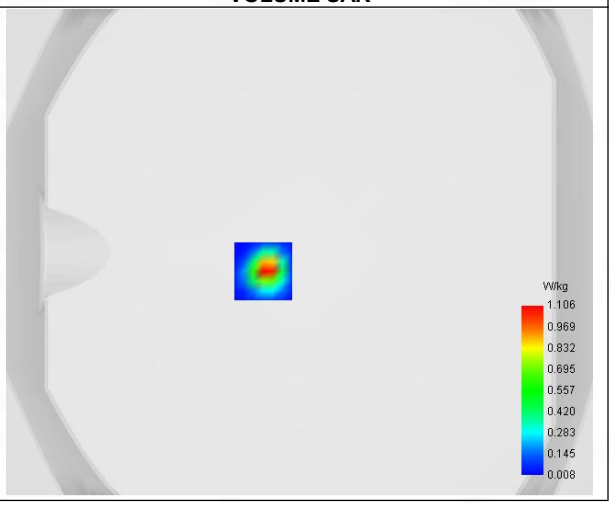
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.99
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2c
Channels/Frequency	Lower (102)/ frequency 5510.000 Mhz
Signal	IEEE 802.11 ac

B. Permitivity

Middle TX Frequency (MHz)	5510.000
Relative permitivity (real part)	35.622
Relative permitivity (imaginary part)	16.731
Conductivity (S/m)	5.073

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-15.00, Y=-8.00 ; SAR Peak: 2.04 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.403
Variation (%)	-1.820
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	54.609279

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.814	1.106	0.604	0.329	0.183	0.110	0.068	0.040	0.027	0.021	0.017	0.021

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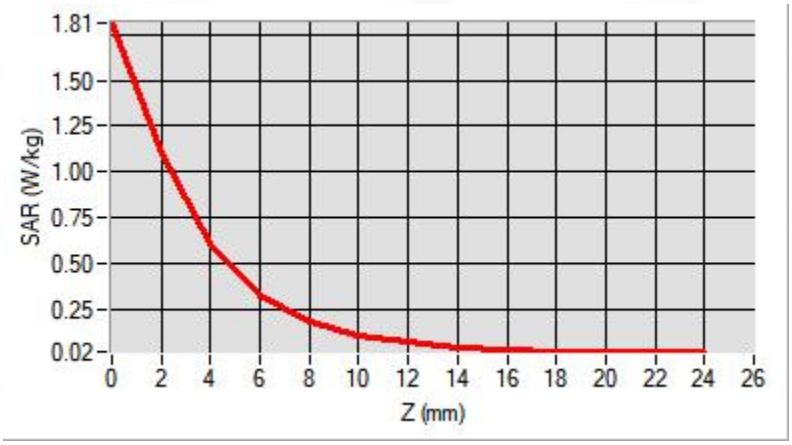
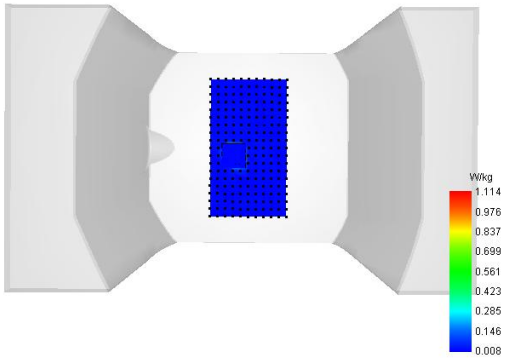
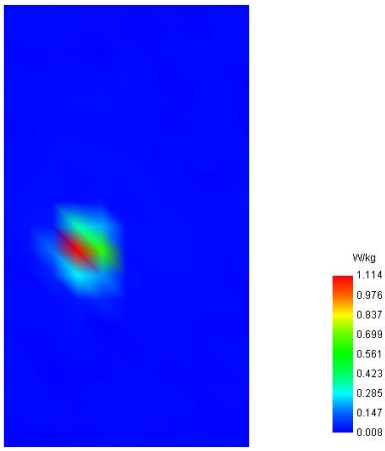


F. 3D Image

3D screen shot	Hot spot position
	

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

SAR Measurement at U-NII-3 (Body, Validation Plane)

Date of measurement: 22/4/2026

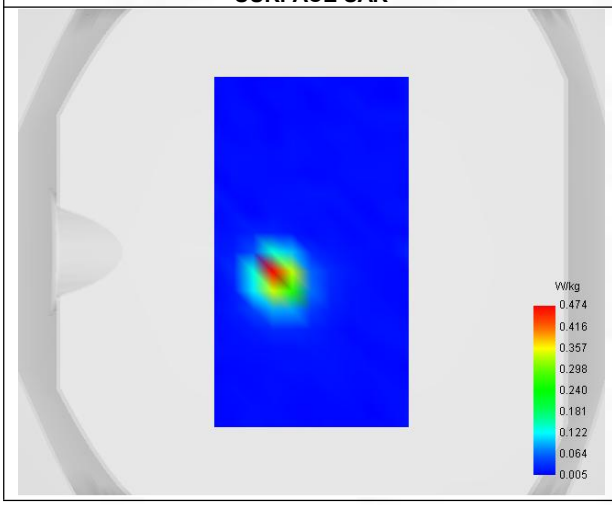
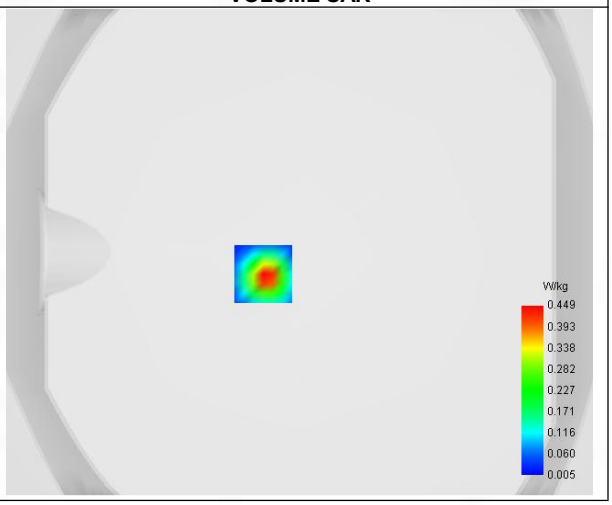
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.10
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-3
Channels/Frequency	Higher (155)/ frequency 5775.000 Mhz
Signal	IEEE 802.11 ac

B. Permitivity

Middle TX Frequency (MHz)	5775.000
Relative permitivity (real part)	35.134
Relative permitivity (imaginary part)	16.358
Conductivity (S/m)	5.216

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-15.00, Y=-9.00 ; SAR Peak: 0.75 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.257
Variation (%)	2.160
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	56.851265

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.730	0.449	0.255	0.149	0.086	0.051	0.034	0.028	0.035	0.013	0.011	0.011

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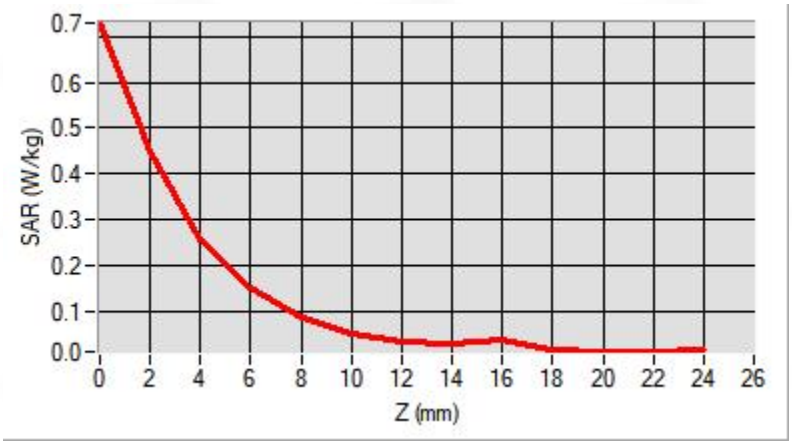
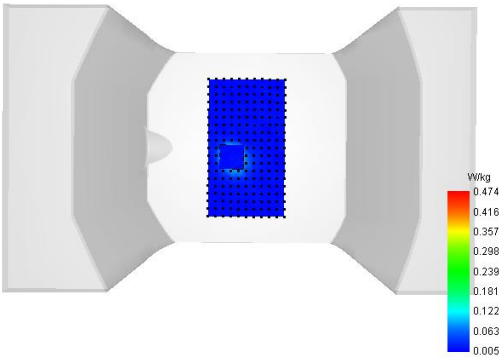
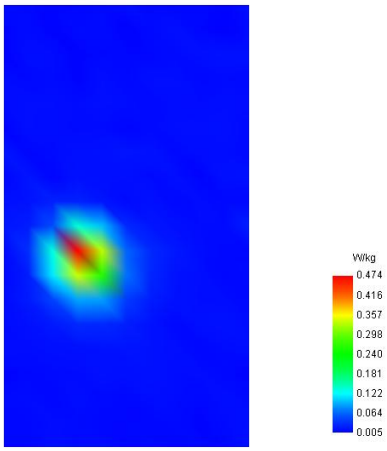


F. 3D Image

3D screen shot	Hot spot position
	

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26-Body/Limb with back position in dist. 0mm on Channel 39 in Bluetooth

SAR Measurement at Bluetooth (Body, Validation Plane)

Date of measurement: 28/4/2026

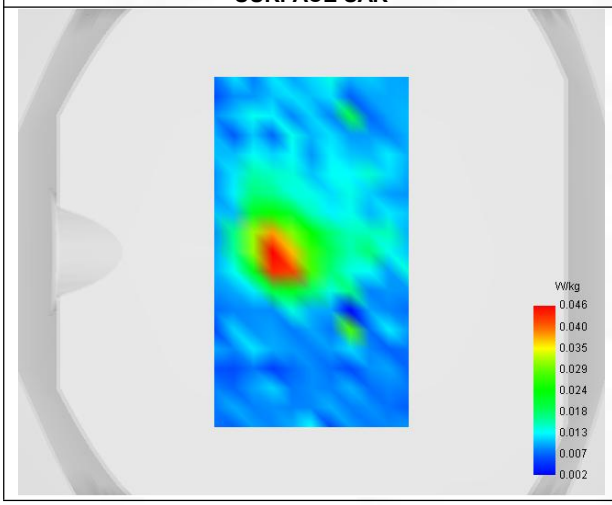
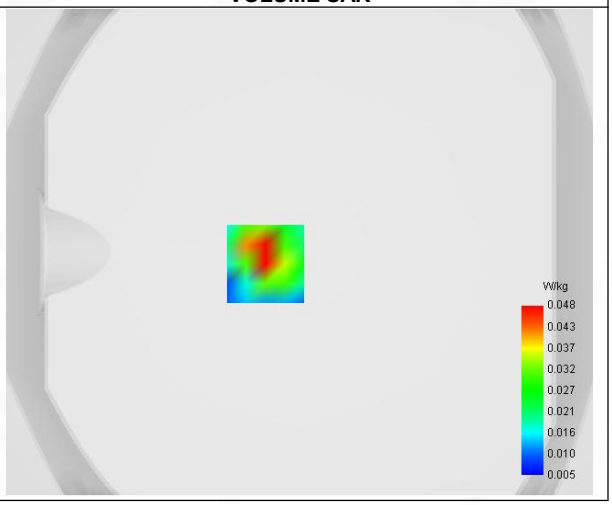
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Bluetooth
Channels/Frequency	Middle (39)/ frequency 2441.000 Mhz
Signal	Bluetooth

B. Permitivity

Middle TX Frequency (MHz)	2441.000
Relative permitivity (real part)	38.788
Relative permitivity (imaginary part)	13.462
Conductivity (S/m)	1.826

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-14.00, Y=-5.00 ; SAR Peak: 0.08 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.025
SAR 1g (W/Kg)	0.047
Variation (%)	2.780
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	59.963366

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.076	0.048	0.029	0.019	0.016	0.009	0.009

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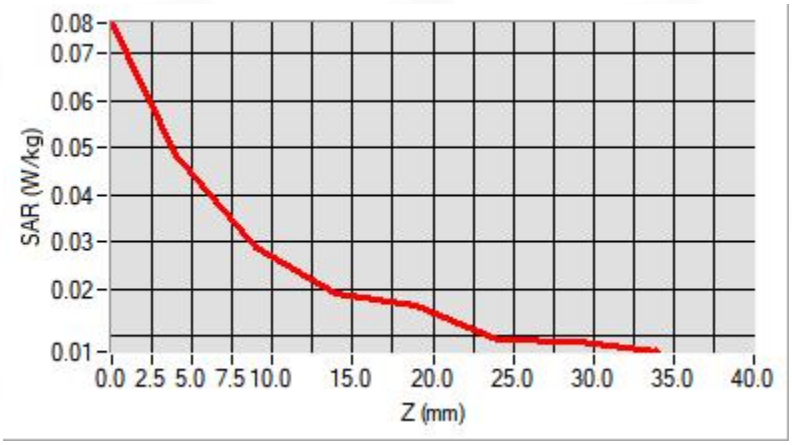
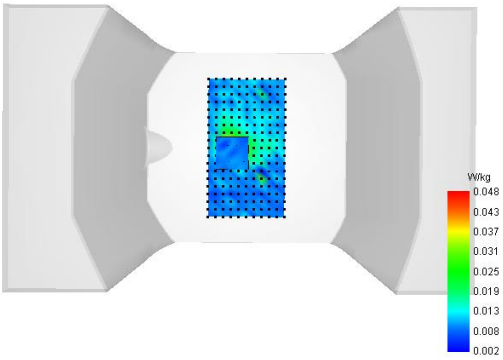
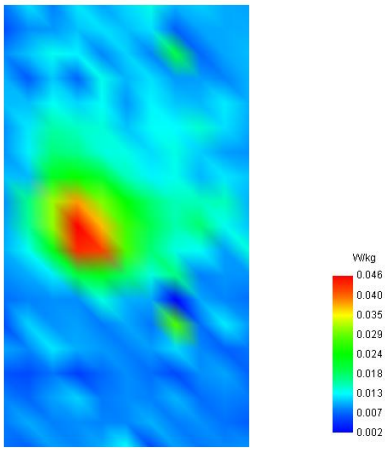


F. 3D Image

3D screen shot	Hot spot position
	

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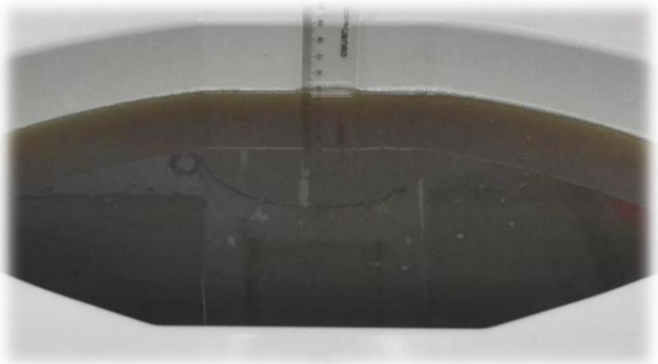
ANNEX D SAR Test Setup Photos

Reference Photo: simulation liquid depth 15cm

Test positions
Please refer to the document “2AN9R-CTAK10-Z_SAR Test Setup Photos.pdf”.

ANNEX E EUT External and Internal Photos

Please refer to RF Report.

ANNEX F Calibration Information

Please refer to the document “Calibration.pdf”.

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