FCC SAR EVALUATION REPORT

In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013

Product Name : Mobile Phone

Brand Name : Bmobile

Model Name : ORION A1

Family Model : ORION A2

Report No. : N26101204306E

FCC ID : ZSW-30-141

Prepared for

b mobile HK Limited

FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... b mobile HK Limited

Address ..... FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA

Manufacturer's Name . b mobile HK Limited

Address ..... FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA

Product description

Product name ..... Mobile Phone

Brand Name ..... Bmobile

Model and/or type reference ..... ORION A1

Family Model ..... ORION A2

Standards ..... FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number ..... S2508260054-1#

Date of Test

Date (s) of performance of tests Sep. 01, 2025~ Sep. 09, 2025

Date of Issue..... Oct. 20, 2026

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

Note: All test data of this report are based on the original test report N25082603407E, dated by Sep. 18, 2025

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Owen Xiao (Project Engineer)	Aaron Cheng (Supervisor)	Alex Li (Manager)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Sep. 18, 2025	Owen Xiao
Rev.2.0	Add family model and Camera module, update adapter.	Oct. 20, 2026	Owen Xiao

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1. General Information

1.1. RF exposure limits

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

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

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

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

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

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE HEAD AND TRUNK LIMIT 1.6 W/kg APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for ORION A1 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			Max. Reported SAR (W/kg)
		PCE	DTS	DSS	
1-g Head		0.197	0.054	0.236	0.236
1-g Body-Worn (Separation distance of 10mm)		0.995	0.144	0.118	0.995
1-g Hotspot (Separation distance of 10mm)		0.995	0.149	0.118	
Max Simultaneous Tx	Head	0.453	0.251	0.453	0.453
	Body-Worn	1.139	1.139	1.113	1.139
	Hotspot	1.139	1.139	1.113	

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Mobile Phone
Brand Name	Bmobile
Model Name	ORION A1
Family Model	ORION A2
Model Difference	All models are the same circuit and RF module, except for android version, model name, battery cover design (including adding one decorative camera and different flash position).
FCC ID	ZSW-30-141
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	FPC Antenna
Battery Information	DC 3.85V, 5000mAh, 19.25Wh
HW Version	Bmobile_ORION_A1_HW_V1.0
SW Version	Bmobile_ORION_A1_LATAM_V001
Device Operating Configurations	
Supporting Mode(s)	GSM850/1900,WCDMABand2/5,LTEBand2/4/5/7/38 ,WLAN 2.4G,Bluetooth
Test Modulation	GSM(GMSK), WCDMA(QPSK), LTE(QPSK/16QAM),WLAN(DSSS/OFDM),

	Bluetooth(GFSK, π/4-DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 38	2570-2620	
	WLAN 2.4G	2412-2462	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink	4	
	Max Number of Timeslots in Downlink	4	
	Max Total Timeslot	5	
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control “all 1”(WCDMA Band 2)		
	3, tested with power control “all 1”(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 38)		

1.4. Test specification(s)

FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04;
KDB 865664 D02 RF Exposure Reporting v01r02;
KDB 447498 D01 General RF Exposure Guidance v06;
KDB 248227 D01 802.11 Wi-Fi SAR v02r02;
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v01r02;
KDB 941225 D06 Hotspot SAR v02r01;
KDB 648474 D04 Handset SAR v01r03;

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

1.6. Facilities And Accreditations

1.6.1. Facilities

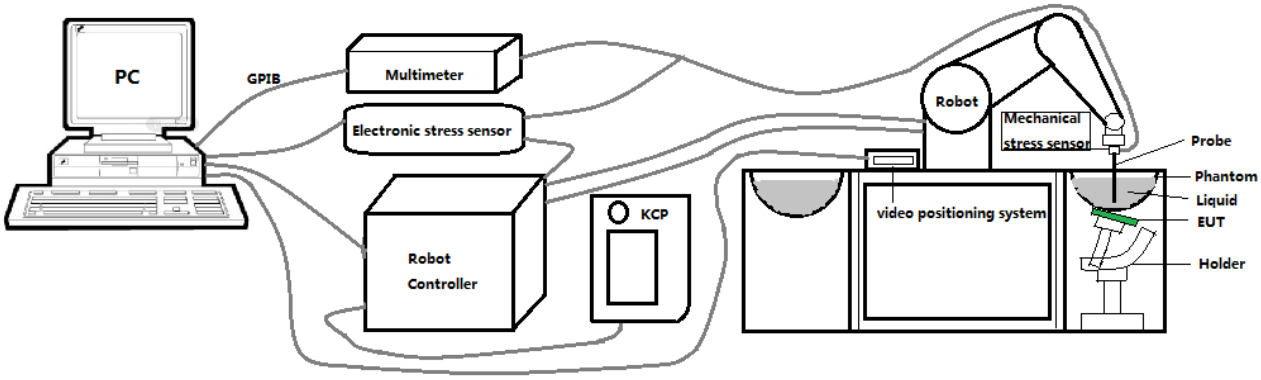
All measurement facilities used to collect the measurement data are located at
Building 1, No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
The sites are constructed in conformance with the requirements of IEC/IEEE 1528:2013

1.6.2. Laboratory Accreditations And Listings

Site Description
CNAS Lab. : The Certificate Registration Number is L5516
A2LA Lab. : The Certificate Registration Number is 4298.01
FCC Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184
ISED Registration : Company Number: 9270A
CAB identifier: CN0074

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ±0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:

- High precision (repeatability ±0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 0725-EPGO-448 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ±1 mm).
- Probe linearity: ±0.06 dB
- Axial isotropy: ±0.01 dB
- Hemispherical Isotropy: ±0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

Angle between probe axis (evaluation axis) and surface normal line: less than 30°.

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ±10%. The spherical isotropy shall be evaluated and within ±0.25dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

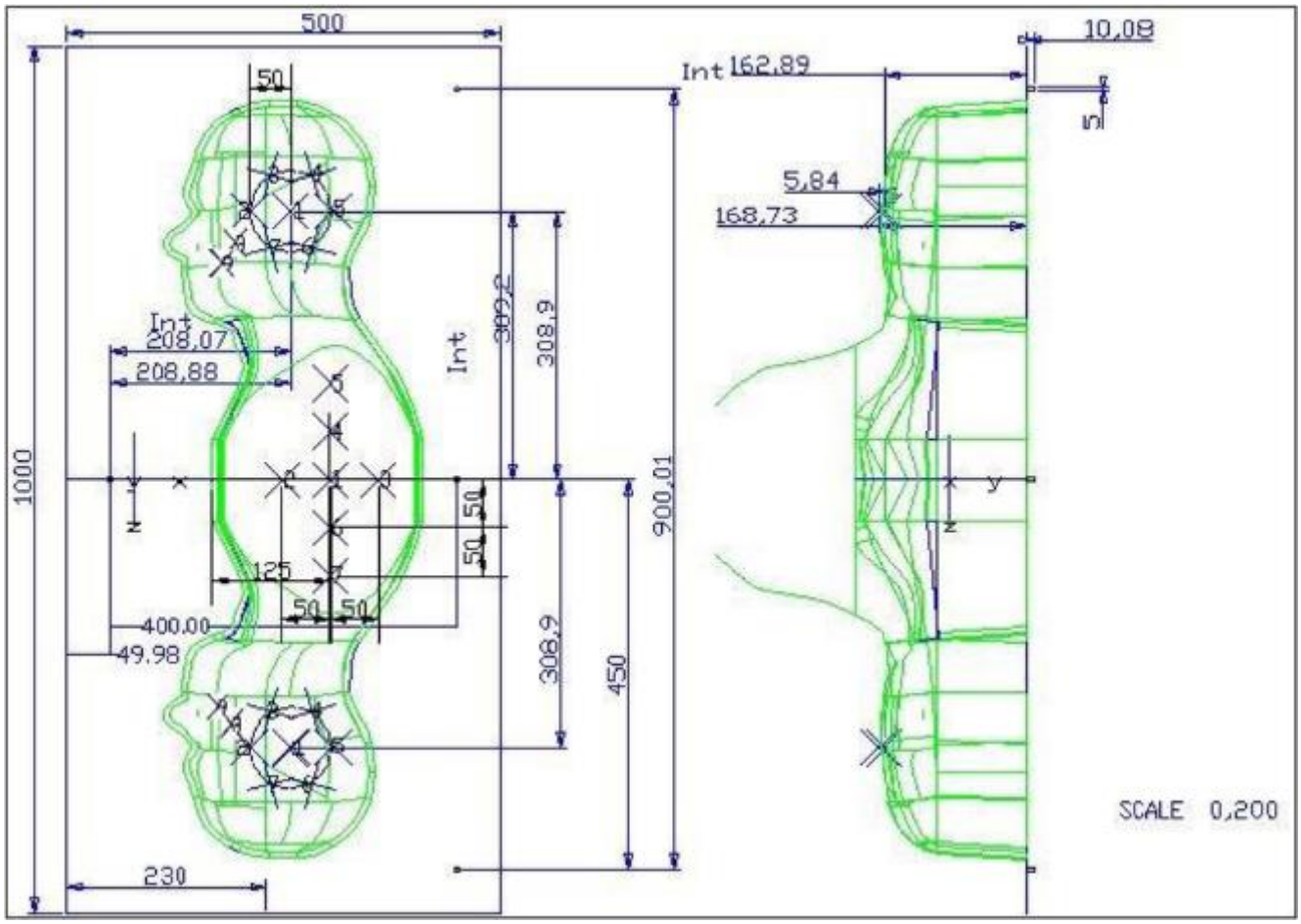
2.4. SAM phantoms

Photo of SAM phantom SN 16/15 SAM119

The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Mobile Phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

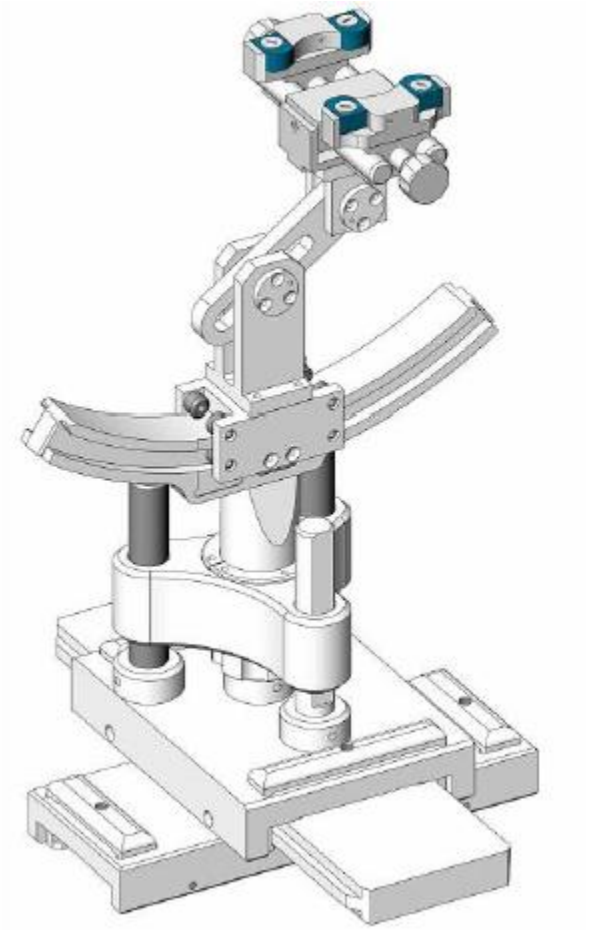


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

2.5. Device Holder

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 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0725-EPGO-448	Apr. 15, 2025	Apr. 14, 2026
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 22, 2024	Feb. 21 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	May. 12 2025	May. 11 2026
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 17, 2025	Apr. 16, 2026
☒	R&S	Wideband radio	CMW500	103917	May. 12, 2025	May. 11, 2026

		communication tester				
☐	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	Apr.16 2025	Apr.15 2026
☐	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	Apr.16 2025	Apr.15 2026
☒	HP	Network Analyzer	E5071C	LPS-461	Oct. 15, 2024	Oct. 14, 2025
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 17, 2025	Apr. 16, 2026
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 6, 2025	May. 5, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 17, 2025	Apr. 16, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

(b) Read the WWAN RF power level from the base station simulator.

(c) For Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.

(d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

(a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.

(b) Place the EUT in the positions as Appendix A demonstrates.

(c) Set scan area, grid size and other setting on the OPENSAR software.

(d) Measure SAR results for the highest power channel on each testing position.

(e) Find out the largest SAR result on these testing positions of each band.

(f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

(a) Power reference measurement

(b) Area scan

(c) Zoom scan

(d) Power drift measurement

3.1. Power Reference

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

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 *30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
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: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: 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
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *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 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.
An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.
The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than ±5%, the SAR will be retested.

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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 depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position

4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within ±5% of the target values.

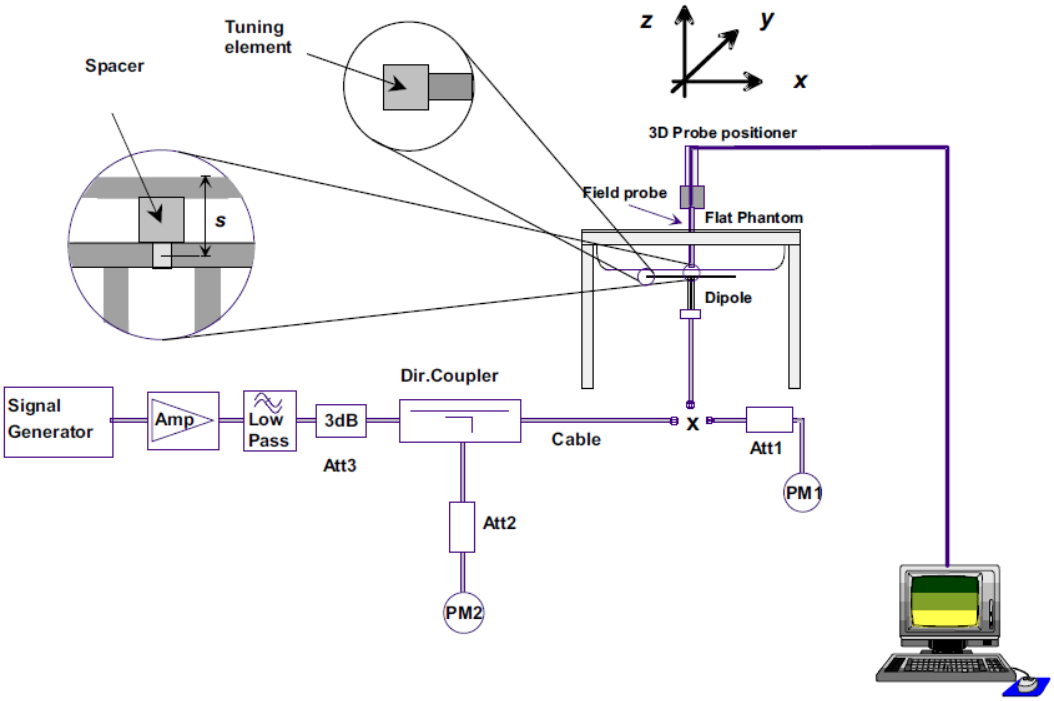
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Delta(%)		Liquid Temp.	Test Date
		εr	σ (S/m)	εr	σ (S/m)	εr	σ (S/m)		
Head 850	835	41.50	0.90	41.77	0.91	0.65	1.11	21.8 °C	Sep. 02, 2025
Head 1800	1800	40.00	1.40	38.85	1.36	-2.89	-3.00	21.1 °C	Sep. 04, 2025
Head 1900	1900	40.00	1.40	38.08	1.41	-4.80	0.64	21.5 °C	Sep. 03, 2025
Head 2450	2450	39.20	1.80	37.92	1.78	-3.28	-1.00	21.2 °C	Sep. 01, 2025
Head 2600	2600	39.01	1.96	39.59	1.94	1.48	-0.97	21.8 °C	Sep. 09, 2025

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

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of ±10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W)		Measured SAR			Measured SAR (Normalized to 1W)		Delta (%)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
835MHz	9.40	6.28	100.00	1.02	0.61	10.16	6.06	8.09	-3.50	21.8 °C	Sep. 02, 2025
1800MHz	37.06	20.01	100.00	3.64	1.84	36.42	18.39	-1.73	-8.10	21.1 °C	Sep. 04, 2025
1900MHz	39.69	20.92	100.00	4.20	2.07	42.01	20.68	5.85	-1.15	21.5 °C	Sep. 03, 2025
2450MHz	50.05	23.80	100.00	5.36	2.32	53.59	23.22	7.07	-2.44	21.2 °C	Sep. 01, 2025
2600MHz	54.16	24.85	100.00	5.73	2.39	57.31	23.92	5.82	-3.74	21.8 °C	Sep. 09, 2025

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The 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.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Ear and handset reference point

Figure 6.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE”.

Fig 6.1.1 Front, back, and side views of SAM phantom

6.2. Definition of the cheek position

1. Define two imaginary lines on the handset, the vertical centerline and the horizontal line. The vertical centerline 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 (point A in Figure 6.2.1 and Figure 6.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 6.2.1). 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 centerline is not necessarily parallel to the front face of the handset (see Figure 6.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
2. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
3. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP
4. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
5. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.

6. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 6.2.3. The actual rotation angles should be documented in the test report.

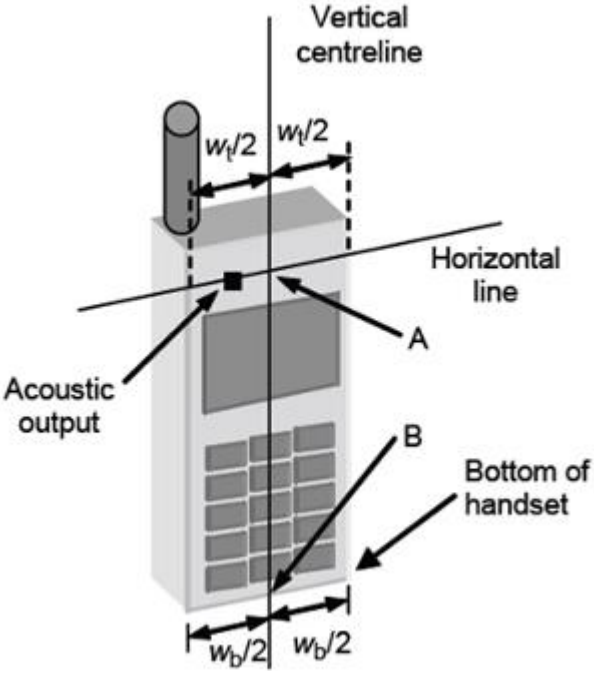


Fig 6.2.1 Handset vertical and horizontal reference lines—“fixed case

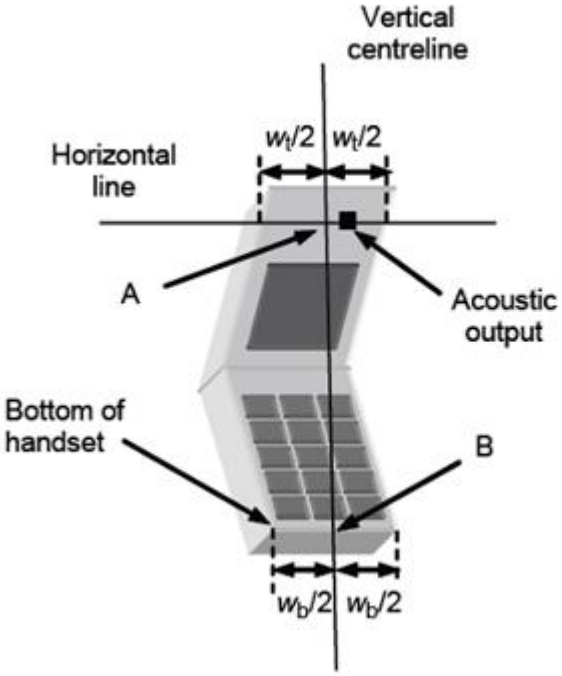


Fig 6.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

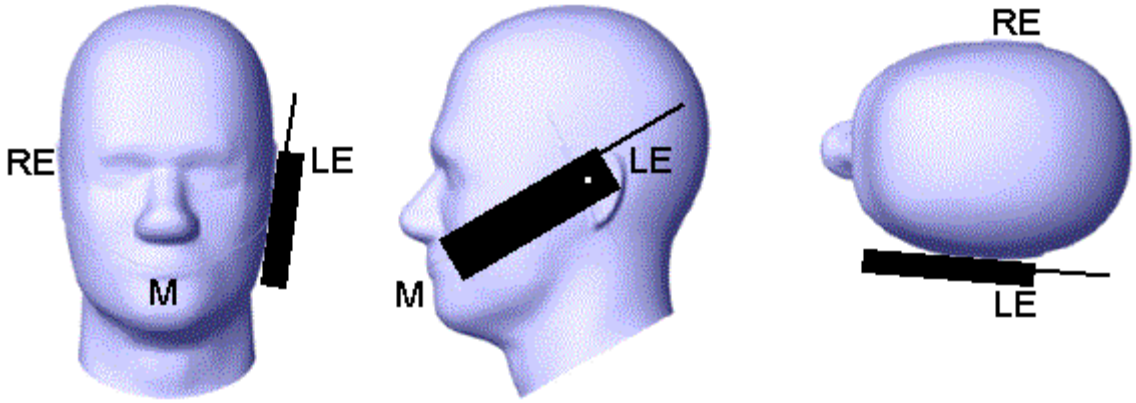


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

1. While maintaining the orientation of the handset, retract the handset parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15 degree.
2. Rotate the Handset around the horizontal line by 15 degree (see Figure 6.3.1).
3. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g., the antenna with the back of the phantom head, the angle of the handset shall be reduced. In this case, the tilt position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is in contact with the phantom, e.g., the antenna with the back of the head.

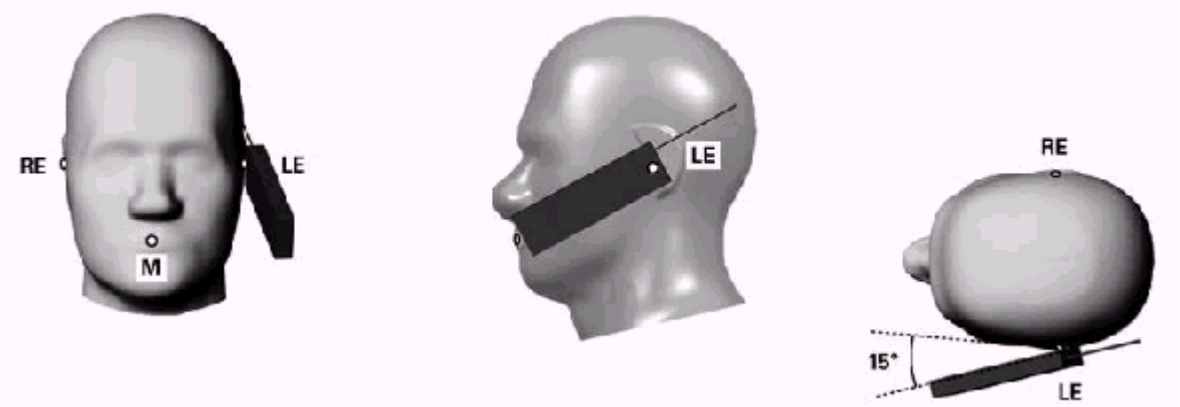


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, 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 FCC KDB 447498 D01 should be 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 applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

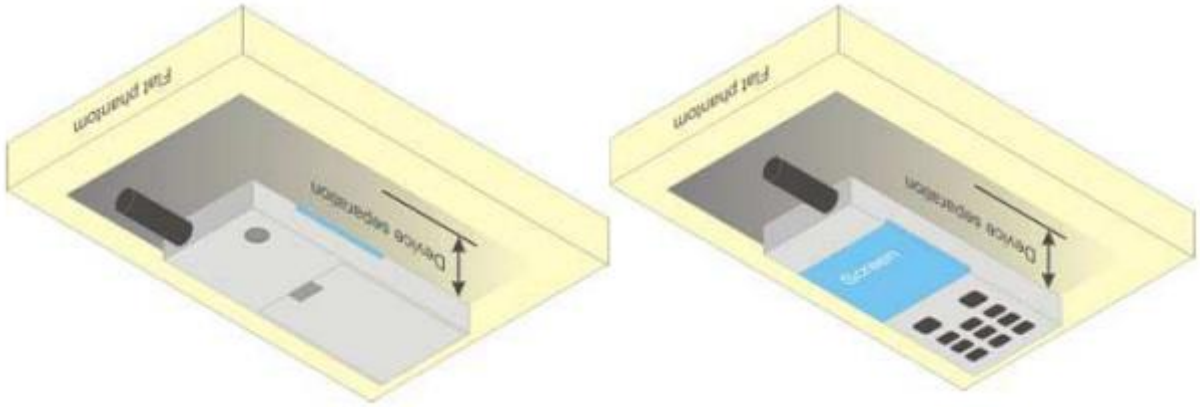


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	32.50	32.13	32.24	32.15	23.47	23.10	23.21	23.12
GPRS(GMSK,1 Tx slot)	32.50	32.25	32.42	32.28	23.47	23.22	23.39	23.25
GPRS(GMSK,2 Tx slot)	30.50	30.40	30.32	30.23	24.48	24.38	24.30	24.21
GPRS(GMSK,3 Tx slot)	29.00	28.51	28.38	28.30	24.74	24.25	24.12	24.04
GPRS(GMSK,4 Tx slot)	27.00	26.54	26.32	26.36	23.99	23.53	23.31	23.35
EGPRS(8PSK,1 Tx slot)	26.00	25.90	25.58	25.48	16.97	16.87	16.55	16.45
EGPRS(8PSK,2 Tx slot)	26.00	25.75	25.19	25.00	19.98	19.73	19.17	18.98
EGPRS(8PSK,3 Tx slot)	24.00	23.82	23.89	23.58	19.74	19.56	19.63	19.32
EGPRS(8PSK,4 Tx slot)	22.00	21.33	21.56	21.49	18.99	18.32	18.55	18.48
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	30.00	29.54	29.65	29.78	20.97	20.51	20.62	20.75
GPRS(GMSK,1 Tx slot)	30.50	29.88	29.97	30.07	21.47	20.85	20.94	21.04
GPRS(GMSK,2 Tx slot)	27.50	27.19	27.20	26.91	21.48	21.17	21.18	20.89
GPRS(GMSK,3 Tx slot)	26.00	25.56	25.47	25.24	21.74	21.30	21.21	20.98
GPRS(GMSK,4 Tx slot)	23.50	23.42	23.37	23.15	20.49	20.41	20.36	20.14
EGPRS(8PSK,1 Tx slot)	27.00	25.54	26.65	25.68	17.97	16.51	17.62	16.65
EGPRS(8PSK,2 Tx slot)	26.50	25.81	26.12	25.71	20.48	19.79	20.10	19.69
EGPRS(8PSK,3 Tx slot)	25.00	24.15	24.83	23.71	20.74	19.89	20.57	19.45
EGPRS(8PSK,4 Tx slot)	23.00	21.53	22.87	21.86	19.99	18.52	19.86	18.85

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)	(dBm)	1852.4	1880	1907.6
RMC12.2K	23.00	22.90	22.83	22.86
HSDPA Sub 1	23.50	23.08	23.45	22.91
HSDPA Sub 2	23.50	22.74	23.12	22.70
HSDPA Sub 3	23.00	22.44	22.91	22.44

HSDPA Sub 4	23.00	22.29	22.68	22.27
HSUPA Sub 1	23.50	22.87	23.18	22.61
HSUPA Sub 2	23.50	22.98	23.35	22.83
HSUPA Sub 3	23.50	22.77	23.16	22.46
HSUPA Sub 4	23.50	22.91	23.24	22.86
HSUPA Sub 5	23.50	22.72	23.06	22.50
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	23.00	22.78	22.77	22.60
HSDPA Sub 1	23.00	22.30	22.52	22.38
HSDPA Sub 2	23.00	22.11	22.24	22.58
HSDPA Sub 3	22.50	21.96	22.07	22.27
HSDPA Sub 4	23.00	21.77	21.54	22.53
HSUPA Sub 1	22.50	22.38	22.25	22.29
HSUPA Sub 2	23.00	22.58	22.38	22.47
HSUPA Sub 3	22.50	22.27	22.06	22.10
HSUPA Sub 4	23.00	22.53	22.36	22.25
HSUPA Sub 5	22.50	22.22	21.85	22.28

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.80	23.74	23.82
			1	2	24.00	23.80	23.76	23.76
			1	5	24.00	23.80	23.86	23.77
			3	0	24.00	23.85	23.66	23.62
			3	1	24.00	23.90	23.69	23.56
			3	2	24.00	23.83	23.61	23.58
			6	0	23.00	22.74	22.54	22.39
		16QAM	1	0	23.50	23.32	22.63	23.01
			1	2	23.50	23.38	22.48	23.01
			1	5	23.50	23.31	22.49	23.13
			3	0	23.50	22.97	22.35	22.64
			3	1	23.50	22.97	22.50	22.70
			3	2	23.50	23.06	22.47	22.71
			6	0	22.00	21.78	21.52	21.36
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.50	23.89	23.68	23.55
			1	7	24.50	23.88	23.70	23.59
			1	14	24.50	24.06	23.82	23.71
			8	0	23.00	22.91	22.58	22.58
			8	4	23.00	22.91	22.60	22.56
			8	7	23.00	22.78	22.56	22.56
			15	0	23.00	22.86	22.56	22.57
		16QAM	1	0	24.00	23.90	23.13	23.65
			1	7	24.00	23.79	23.22	23.50
			1	14	24.00	23.78	23.10	23.49
			8	0	22.00	21.99	21.68	21.68
			8	4	22.00	21.94	21.70	21.70
			8	7	22.00	21.84	21.71	21.67
			15	0	22.50	22.02	21.65	21.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE	5MHz	QPSK	1	0	24.50	24.06	23.96	23.90

Band 2			1	12	24.50	24.09	23.92	23.82
			1	24	24.50	24.04	23.96	23.77
			12	0	23.00	22.85	22.60	22.56
			12	6	23.00	22.64	22.61	22.62
			12	11	23.00	22.61	22.63	22.61
			25	0	23.00	22.77	22.65	22.52
		16QAM	1	0	24.00	23.90	23.65	23.14
			1	12	24.00	23.32	23.59	23.18
			1	24	24.00	23.79	23.71	22.99
			12	0	22.00	21.91	21.63	21.65
			12	6	22.00	21.78	21.72	21.73
			12	11	22.00	21.74	21.68	21.58
			25	0	22.00	21.66	21.62	21.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	23.89	23.72	23.78
			1	24	24.00	23.79	23.62	23.60
			1	49	24.00	23.80	23.64	23.63
			25	0	23.00	22.71	22.74	22.73
			25	12	23.00	22.68	22.59	22.62
			25	24	23.00	22.80	22.61	22.69
			50	0	23.00	22.87	22.54	22.70
		16QAM	1	0	24.00	23.89	23.81	23.16
			1	24	24.00	23.86	23.58	23.06
			1	49	24.00	23.87	23.63	23.11
			25	0	22.50	21.76	21.70	21.88
			25	12	22.50	21.71	21.64	21.82
			25	24	22.50	22.22	21.60	21.87
			50	0	22.00	21.81	21.65	21.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.00	23.85	23.76	23.76
			1	37	24.00	23.78	23.69	23.68
			1	74	24.00	23.94	23.94	23.59
			36	0	23.00	22.80	22.61	22.73
			36	18	23.00	22.87	22.69	22.75
			36	37	23.00	22.86	22.52	22.71

			75	0	23.00	22.85	22.50	22.76
		16QAM	1	0	24.00	23.41	23.16	23.73
			1	37	24.00	23.32	23.10	23.72
			1	74	24.00	23.31	23.16	23.51
			36	0	22.50	21.85	21.87	21.66
			36	18	22.50	22.29	21.78	21.61
			36	37	22.50	21.93	21.68	21.69
			75	0	22.50	22.17	21.67	21.75
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.50	24.13	23.93	24.05
			1	49	24.50	24.11	23.76	24.02
			1	99	24.50	24.11	23.92	23.81
			50	0	23.50	22.82	22.66	22.81
			50	24	23.50	22.91	22.60	22.62
			50	49	23.50	22.72	22.54	22.57
			100	0	23.00	22.84	22.56	22.69
		16QAM	1	0	23.50	23.42	22.68	23.29
			1	49	23.50	23.43	22.54	23.28
			1	99	23.50	23.26	22.39	23.02
			50	0	22.00	21.77	21.78	21.77
			50	24	22.00	21.83	21.61	21.73
			50	49	22.00	21.85	21.59	21.62
			100	0	22.00	21.78	21.63	21.73

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	24.50	23.67	24.47	24.19
			1	2	24.50	23.73	24.43	24.20
			1	5	24.50	23.73	24.35	24.23
			3	0	24.50	23.80	24.06	24.10
			3	1	24.50	23.88	24.13	24.16
			3	2	24.50	23.82	24.07	24.11
			6	0	23.50	22.92	23.09	23.07
		16QAM	1	0	24.00	23.89	23.70	23.62
			1	2	24.00	23.81	23.59	23.76
			1	5	24.00	23.85	23.57	23.74
			3	0	23.50	23.12	23.24	23.30

			3	1	23.50	23.10	23.36	23.30
			3	2	23.50	23.13	23.41	23.32
			6	0	22.50	21.61	22.21	21.96
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.50	23.88	24.20	24.14
			1	7	24.50	23.86	24.12	24.21
			1	14	24.50	23.84	24.10	24.14
			8	0	23.50	22.92	23.25	23.17
			8	4	23.50	22.79	23.03	23.23
			8	7	23.50	22.86	23.18	23.10
			15	0	23.50	22.82	23.15	23.10
		16QAM	1	0	24.50	23.40	24.15	24.11
			1	7	24.50	23.28	24.10	24.14
			1	14	24.50	23.48	24.04	24.12
			8	0	23.00	22.00	22.55	22.22
			8	4	23.00	21.96	22.52	22.21
			8	7	23.00	22.10	22.63	22.22
			15	0	22.50	22.03	22.49	22.22
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.50	23.92	24.38	24.41
			1	12	24.50	24.14	24.40	24.29
			1	24	24.50	24.26	24.48	24.34
			12	0	23.50	22.86	23.12	23.03
			12	6	23.50	22.84	23.14	23.17
			12	11	23.50	23.03	23.22	23.13
			25	0	23.50	22.88	23.18	23.15
		16QAM	1	0	24.50	23.93	23.54	24.14
			1	12	24.50	23.82	23.64	24.17
			1	24	24.50	23.81	23.64	24.17
			12	0	23.00	21.88	22.59	22.15
			12	6	23.00	21.98	22.47	22.14
			12	11	23.00	21.97	22.55	22.14
			25	0	23.00	21.95	22.68	22.10
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	24.50	24.10	24.17	24.02
			1	24	24.50	24.26	24.10	24.16
			1	49	24.50	24.07	24.10	24.11
			25	0	23.50	22.92	23.25	23.19
			25	12	23.50	22.95	23.08	23.33
			25	24	23.50	23.07	23.16	23.09
			50	0	23.50	22.89	23.23	23.35
		16QAM	1	0	24.50	23.93	24.15	24.23
			1	24	24.50	24.01	24.16	24.36
			1	49	24.50	24.09	24.10	24.11
			25	0	23.00	21.87	22.47	22.08
			25	12	23.00	21.93	22.51	22.29
			25	24	23.00	22.00	22.15	22.16
			50	0	22.50	22.09	22.49	22.37
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.50	24.12	24.13	24.02
			1	37	24.50	24.38	24.05	24.12
			1	74	24.50	24.39	24.13	24.06
			36	0	23.50	22.93	23.15	23.20
			36	18	23.50	-42.67	23.20	23.11
			36	37	23.50	-42.68	23.11	23.07
			75	0	23.50	-42.68	23.01	23.02
		16QAM	1	0	24.50	23.86	24.18	24.11
			1	37	24.50	23.97	24.17	24.22
			1	74	24.50	23.60	24.18	24.32
			36	0	22.50	22.07	22.15	22.15
			36	18	22.50	22.03	22.46	22.11
			36	37	22.50	22.22	22.13	22.13
			75	0	23.00	21.99	22.51	22.17
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.50	24.08	24.41	24.16
			1	49	24.50	24.27	24.40	24.15
			1	99	24.50	24.36	24.48	24.17

			50	0	24.00	22.88	23.30	23.10
			50	24	24.00	23.11	23.14	23.13
			50	49	24.00	23.05	23.13	23.24
			100	0	23.50	23.05	23.13	23.17
		16QAM	1	0	24.00	23.27	23.75	23.67
			1	49	24.00	23.50	23.58	23.81
			1	99	24.00	23.82	23.71	23.81
			50	0	22.50	22.01	22.24	22.15
			50	24	22.50	22.13	22.49	22.21
			50	49	22.50	22.23	22.22	22.38
			100	0	22.50	22.15	22.46	22.26

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	24.00	23.04	23.62	23.29
			1	2	24.00	11.80	23.41	23.46
			1	5	24.00	-54.05	23.38	23.46
			3	0	23.50	-54.07	23.37	23.15
			3	1	23.50	23.16	23.36	23.27
			3	2	23.50	23.14	23.41	23.23
			6	0	22.50	22.11	22.48	22.24
		16QAM	1	0	24.00	23.14	23.14	22.87
			1	2	24.00	23.08	23.57	22.69
			1	5	24.00	23.09	23.46	22.73
			3	0	23.00	22.44	22.90	22.28
			3	1	23.00	22.58	22.83	22.39
			3	2	23.00	22.43	22.81	22.31
			6	0	21.50	21.02	21.10	21.11
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	24.00	23.36	23.31	23.19
			1	7	24.00	23.52	23.47	23.14
			1	14	24.00	23.44	23.44	23.17
			8	0	23.00	22.15	22.35	22.36
			8	4	23.00	22.23	22.55	22.28
			8	7	23.00	22.17	22.54	22.23
			15	0	23.00	22.16	22.55	22.36
		16QAM	1	0	24.00	22.63	23.32	23.31

			1	7	24.00	22.56	23.54	23.31
			1	14	24.00	22.67	23.39	23.17
			8	0	22.00	21.29	21.47	21.51
			8	4	22.00	21.26	21.53	21.38
			8	7	22.00	21.32	21.56	21.44
			15	0	21.50	21.37	21.45	21.38
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	24.00	23.18	23.61	23.67
			1	12	24.00	23.25	23.75	23.55
			1	24	24.00	23.14	23.69	23.54
			12	0	23.00	22.04	22.39	22.24
			12	6	23.00	22.15	22.47	22.28
			12	11	23.00	22.20	22.60	22.27
			25	0	23.00	22.23	22.56	22.41
		16QAM	1	0	23.50	23.29	22.80	22.89
			1	12	23.50	23.29	23.04	22.87
			1	24	23.50	23.11	23.13	22.61
			12	0	22.00	21.21	21.39	21.50
			12	6	22.00	21.17	21.36	21.30
			12	11	22.00	21.17	21.43	21.25
			25	0	22.00	21.19	21.51	21.57
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	24.00	23.44	23.32	23.46
			1	24	24.00	23.46	23.40	23.36
			1	49	24.00	23.69	23.46	23.30
			25	0	23.00	22.14	22.32	22.54
			25	12	23.00	22.15	22.52	22.31
			25	24	23.00	22.19	22.65	22.34
			50	0	22.50	22.23	22.43	22.31
		16QAM	1	0	24.00	22.62	23.31	23.71
			1	24	24.00	22.60	23.57	23.39
			1	49	24.00	22.82	23.47	23.28
			25	0	22.00	21.45	21.30	21.44
			25	12	22.00	21.42	21.39	21.42
			25	24	22.00	21.44	21.68	21.31

			50	0	21.50	21.25	21.42	21.38

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	25.00	24.07	24.63	24.47
			1	12	25.00	24.14	24.59	24.47
			1	24	25.00	24.12	24.64	24.46
			12	0	23.50	23.04	23.41	23.37
			12	6	23.50	23.23	23.40	23.40
			12	11	23.50	23.15	23.30	23.43
			25	0	23.50	23.11	23.27	23.35
		16QAM	1	0	25.00	24.28	23.99	24.72
			1	12	25.00	24.46	24.07	24.55
			1	24	25.00	24.50	23.98	24.64
			12	0	23.00	22.32	22.61	22.59
			12	6	23.00	22.35	22.58	22.55
			12	11	23.00	22.39	22.60	22.54
			25	0	23.00	22.33	22.71	22.54
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	25.00	24.27	24.71	24.46
			1	24	25.00	24.32	24.67	24.51
			1	49	25.00	24.31	24.55	24.49
			25	0	23.50	23.25	23.49	23.47
			25	12	23.50	23.26	23.38	23.49
			25	24	23.50	23.29	23.39	23.41
			50	0	24.00	23.26	23.43	23.52
		16QAM	1	0	25.00	24.40	24.05	24.73
			1	24	25.00	24.35	23.99	24.61
			1	49	25.00	24.61	24.08	24.55
			25	0	23.00	22.29	22.73	22.55
			25	12	23.00	22.41	22.77	22.57
			25	24	23.00	22.32	22.72	22.52
			50	0	23.00	22.29	22.50	22.70
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE	15MHz	QPSK	1	0	25.00	24.50	24.41	24.52

Band 7			1	37	25.00	24.47	24.39	24.44
			1	74	25.00	24.44	24.46	24.45
			36	0	24.00	23.28	23.51	23.40
			36	18	24.00	23.30	23.27	23.51
			36	37	24.00	23.40	23.43	23.36
			75	0	23.50	23.20	23.34	23.43
		16QAM	1	0	25.00	23.71	24.70	24.83
			1	37	25.00	23.76	24.63	24.75
			1	74	25.00	23.86	24.75	24.68
			36	0	23.00	22.44	22.55	22.54
			36	18	23.00	22.57	22.49	22.59
			36	37	23.00	22.52	22.50	22.44
			75	0	23.00	22.31	22.57	22.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	25.00	24.35	24.57	24.73
			1	49	25.00	24.44	24.51	24.61
			1	99	25.00	24.36	24.56	24.59
			50	0	23.50	23.14	23.41	23.36
			50	24	23.50	23.30	23.34	23.43
			50	49	23.50	23.11	23.43	23.40
			100	0	23.50	23.15	23.36	23.36
		16QAM	1	0	24.50	23.70	24.05	24.11
			1	49	24.50	23.84	24.14	23.97
			1	99	24.50	23.84	24.10	23.87
			50	0	23.00	22.38	22.63	22.68
			50	24	23.00	22.38	22.51	22.56
			50	49	23.00	22.40	22.62	22.64
			100	0	23.00	22.47	22.55	22.58

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37775/2572.5	38000/2595	38225/2617.5
LTE Band 38	5MHz	QPSK	1	0	25.50	24.55	25.00	25.12
			1	12	25.50	24.57	25.08	25.06
			1	24	25.50	24.57	25.09	25.04
			12	0	24.00	23.59	23.55	23.69
			12	6	24.00	23.55	23.59	23.64

			12	11	24.00	23.55	23.48	23.53
			25	0	24.00	23.44	23.52	23.58
		16QAM	1	0	24.00	23.15	23.75	23.93
			1	12	24.00	23.10	23.91	23.94
			1	24	24.00	23.21	23.92	23.88
			12	0	23.00	22.52	22.61	22.79
			12	6	23.00	22.52	22.63	22.74
			12	11	23.00	22.60	22.59	22.73
			25	0	23.00	22.79	22.76	22.86
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37800/2575	38000/2595	38200/2615
LTE Band 38	10MHz	QPSK	1	0	25.50	24.60	25.02	25.19
			1	24	25.50	24.59	24.98	25.05
			1	49	25.50	24.82	24.92	25.02
			25	0	24.00	23.52	23.54	23.62
			25	12	24.00	23.53	23.46	23.59
			25	24	24.00	23.66	23.47	23.50
			50	0	24.00	23.43	23.51	23.65
		16QAM	1	0	24.00	23.15	23.78	23.99
			1	24	24.00	23.21	23.84	23.93
			1	49	24.00	23.22	23.87	23.93
			25	0	23.00	22.71	22.74	22.93
			25	12	23.00	22.71	22.68	22.81
			25	24	23.00	22.73	22.71	22.87
			50	0	23.00	22.68	22.76	22.89
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37825/2577.5	38000/2595	38175/2615
LTE Band 38	15MHz	QPSK	1	0	25.50	25.19	25.01	25.10
			1	37	25.50	25.24	25.02	25.06
			1	74	25.50	25.16	25.04	25.02
			36	0	24.00	23.66	23.45	23.57
			36	18	24.00	23.65	23.43	23.65
			36	37	24.00	23.51	23.59	23.61
			75	0	24.00	23.59	23.44	23.51
		16QAM	1	0	24.50	23.97	23.91	24.02
			1	37	24.50	23.92	23.85	23.91
			1	74	24.50	23.79	23.91	23.91

			36	0	23.00	22.68	22.57	22.76
			36	18	23.00	22.73	22.60	22.80
			36	37	23.00	22.78	22.65	22.72
			75	0	23.00	22.90	22.73	22.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37850/2580	38000/2595	38150/2610
LTE Band 38	20MHz	QPSK	1	0	25.50	25.16	25.04	25.01
			1	49	25.50	25.21	25.01	25.12
			1	99	25.50	25.08	25.02	24.93
			50	0	24.00	23.48	23.48	23.63
			50	24	24.00	23.49	23.47	23.66
			50	49	24.00	23.56	23.50	23.66
			100	0	24.00	23.61	23.49	23.53
		16QAM	1	0	24.00	23.85	23.83	23.91
			1	49	24.00	23.84	23.86	23.97
			1	99	24.00	23.85	23.84	23.83
			50	0	23.00	22.78	22.78	22.97
			50	24	23.00	22.84	22.73	22.86
			50	49	23.00	22.78	22.76	22.79
			100	0	23.00	22.76	22.69	22.74

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	14.00	13.16	14.00
	6	14.00	13.55	14.00
	11	14.00	13.82	14.00
802.11g	1	13.50	13.20	13.50
	6	13.50	13.22	13.50
	11	13.50	13.15	13.50
802.11n HT20	1	11.50	11.02	11.50
	6	11.50	11.17	11.50
	11	11.50	11.21	11.50

NOTE: Power measurement results of WLAN 2.4G.

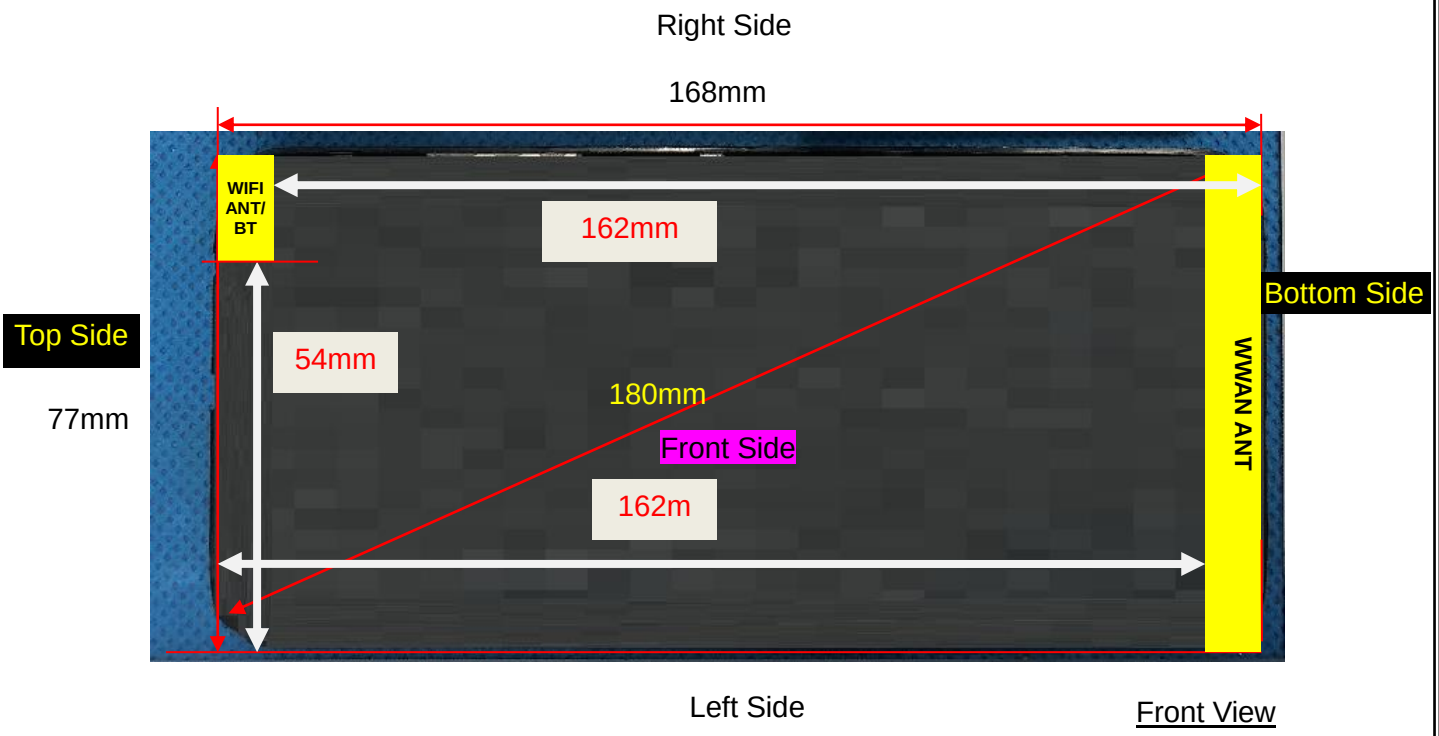
	Channel	Tune-up (dBm)	Output Power (dBm)
BLE 1M	0CH	-1.5	-2
	19CH	-1.5	-1.94
	39CH	-1.5	-2.76

NOTE: Power measurement results of Bluetooth.

	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
BR+EDR	1M	7.00	6.40	6.83	5.82
	2M	7.00	6.23	6.70	5.96
	3M	7.50	6.55	7.08	6.26

NOTE: Power measurement results of Bluetooth.

8. Antenna Location



Note: Since the confidentiality request of EUT，the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN ANT	≤ 25mm	≤ 25mm	≤25mm	≤ 25mm	> 25mm	≤ 25mm
WIFI/BT ANT	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	> 25mm
Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN ANT	Yes	Yes	Yes	Yes	NO	Yes
WIFI/BT ANT	Yes	Yes	NO	Yes	Yes	NO

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f_{(GHZ)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{(GHZ)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion

Bluetooth	7.50	5.623	5	2.480	1.771	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [$\sqrt{f_{(GHZ)}}$/x] W/kg for test separation distances ≤ 50mm, where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	7.50	5.623	5	2.48	7.5	0.236
Bluetooth	Body	7.50	5.623	10	2.48	7.5	0.118
Bluetooth	Hotspot	7.50	5.623	10	2.48	7.5	0.118

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement Result

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(±5%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Right Cheek	189/836.4	GPRS(GMSK 3TS)	0.188	0.139	-1.51	28.38	29.00	0.217	2025/9/02	1#
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 3TS)	0.096	0.070	-2.79	28.38	29.00	0.111	2025/9/02	
Left Cheek	189/836.4	GPRS(GMSK 3TS)	0.171	0.125	3.77	28.38	29.00	0.197	2025/9/02	
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 3TS)	0.089	0.064	3.87	28.38	29.00	0.103	2025/9/02	

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.168	0.099	0.22	28.38	29.00	0.194	2025/9/02	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.255	0.152	-2.31	28.38	29.00	0.294	2025/9/02	2#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.168	0.099	0.22	28.38	29.00	0.194	2025/9/02	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.255	0.152	-2.31	28.38	29.00	0.294	2025/9/02	2#
Left Side	189/836.4	GPRS(GMSK 3TS)	0.104	0.059	-1.88	28.38	29.00	0.120	2025/9/02	
Right Side	189/836.4	GPRS(GMSK 3TS)	0.130	0.074	-1.52	28.38	29.00	0.150	2025/9/02	
Bottom Side	189/836.4	GPRS(GMSK 3TS)	0.243	0.138	0.59	28.38	29.00	0.280	2025/9/02	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Right Cheek	661/1880	GPRS(GMSK 3TS)	0.046	0.028	3.72	25.47	26.00	0.052	2025/9/03	3#
Right Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.024	0.014	2.89	25.47	26.00	0.027	2025/9/03	
Left Cheek	661/1880	GPRS(GMSK 3TS)	0.042	0.024	-3.94	25.47	26.00	0.047	2025/9/03	

Left Tilt 15 Degree	661/1880	GPRS(GMSK 3TS)	0.021	0.012	-1.46	25.47	26.00	0.024	2025/9/03	

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.104	0.061	1.04	25.47	26.00	0.117	2025/9/03	
Back Side	661/1880	GPRS(GMSK 3TS)	0.226	0.133	2.74	25.47	26.00	0.255	2025/9/03	4#

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.104	0.061	1.04	25.47	26.00	0.117	2025/9/03	
Back Side	661/1880	GPRS(GMSK 3TS)	0.226	0.133	2.74	25.47	26.00	0.255	2025/9/03	4#
Left Side	661/1880	GPRS(GMSK 3TS)	0.060	0.035	2.25	25.47	26.00	0.068	2025/9/03	
Right Side	661/1880	GPRS(GMSK 3TS)	0.036	0.021	-0.12	25.47	26.00	0.041	2025/9/03	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.225	0.131	-0.56	25.47	26.00	0.254	2025/9/03	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Right Cheek	9400/1880	RMC12.2K	0.097	0.058	3.13	22.83	23.00	0.101	2025/9/03	5#
Right Tilt	9400/1880	RMC12.2K	0.049	0.028	-1.39	22.83	23.00	0.051	2025/9/03	

15 Degree										
Left Cheek	9400/1880	RMC12.2K	0.084	0.048	0.29	22.83	23.00	0.087	2025/9/03	
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.041	0.025	-2.99	22.83	23.00	0.043	2025/9/03	

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.216	0.121	0.51	22.83	23.00	0.225	2025/9/03	
Back Side	9400/1880	RMC12.2K	0.516	0.301	-0.89	22.83	23.00	0.537	2025/9/03	6#

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.216	0.121	0.51	22.83	23.00	0.225	2025/9/03	
Back Side	9400/1880	RMC12.2K	0.516	0.301	-0.89	22.83	23.00	0.537	2025/9/03	6#
Left Side	9400/1880	RMC12.2K	0.138	0.081	3.14	22.83	23.00	0.144	2025/9/03	
Right Side	9400/1880	RMC12.2K	0.081	0.047	2.32	22.83	23.00	0.084	2025/9/03	
Bottom Side	9400/1880	RMC12.2K	0.504	0.291	1.02	22.83	23.00	0.524	2025/9/03	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Right Cheek	4182/836.4	RMC12.2K	0.134	0.103	2.11	22.77	23.00	0.141	2025/9/02	7#
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.078	0.059	0.92	22.77	23.00	0.082	2025/9/02	
Left Cheek	4182/836.4	RMC12.2K	0.118	0.089	2.49	22.77	23.00	0.124	2025/9/02	
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.060	0.045	-1.91	22.77	23.00	0.063	2025/9/02	

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.126	0.076	2.02	22.77	23.00	0.133	2025/9/02	
Back Side	4182/836.4	RMC12.2K	0.195	0.119	-1.40	22.77	23.00	0.206	2025/9/02	8#

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.126	0.076	2.02	22.77	23.00	0.133	2025/9/02	
Back Side	4182/836.4	RMC12.2K	0.195	0.119	-1.40	22.77	23.00	0.206	2025/9/02	8#
Left Side	4182/836.4	RMC12.2K	0.088	0.052	0.27	22.77	23.00	0.093	2025/9/02	
Right Side	4182/836.4	RMC12.2K	0.105	0.063	1.53	22.77	23.00	0.111	2025/9/02	
Bottom Side	4182/836.4	RMC12.2K	0.189	0.113	0.76	22.77	23.00	0.199	2025/9/02	

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.5. SAR measurement Result of LTE Band 2

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Right Cheek	18900/1880	20M QPSK(1,0)	0.091	0.056	1.76	23.93	24.50	0.104	2025/9/03	11#
Right Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.052	0.032	-1.97	23.93	24.50	0.059	2025/9/03	
Left Cheek	18900/1880	20M QPSK(1,0)	0.082	0.049	-3.92	23.93	24.50	0.094	2025/9/03	
Left Tilt 15 Degree	18900/1880	20M QPSK(1,0)	0.045	0.027	2.12	23.93	24.50	0.051	2025/9/03	
50%RB										
Left Cheek	18900/1880	20M QPSK(50,0)	0.050	0.030	-1.05	22.66	23.50	0.061	2025/9/03	
Left Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.028	0.017	-3.17	22.66	23.50	0.034	2025/9/03	
Right Cheek	18900/1880	20M QPSK(50,0)	0.043	0.029	1.74	22.66	23.50	0.052	2025/9/03	
Right Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.024	0.014	-0.57	22.66	23.50	0.029	2025/9/03	

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.228	0.129	0.59	23.93	24.50	0.260	2025/9/03	
Back	18900/1880	20M	0.531	0.313	0.75	23.93	24.50	0.605	2025/9/03	12#

Side		QPSK(1,0)								
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.119	0.075	1.67	22.66	23.50	0.144	2025/9/03	
Back Side	18900/1880	20M QPSK(50,0)	0.313	0.186	0.95	22.66	23.50	0.380	2025/9/03	

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.228	0.129	0.59	23.93	24.50	0.260	2025/9/03	
Back Side	18900/1880	20M QPSK(1,0)	0.531	0.313	0.75	23.93	24.50	0.605	2025/9/03	12#
Left Side	18900/1880	20M QPSK(1,0)	0.140	0.082	0.04	23.93	24.50	0.160	2025/9/03	
Right Side	18900/1880	20M QPSK(1,0)	0.083	0.048	1.19	23.93	24.50	0.095	2025/9/03	
Bottom Side	18900/1880	20M QPSK(1,0)	0.522	0.292	-3.43	23.93	24.50	0.595	2025/9/03	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.119	0.075	1.67	22.66	23.50	0.144	2025/9/03	
Back Side	18900/1880	20M QPSK(50,0)	0.313	0.186	0.95	22.66	23.50	0.380	2025/9/03	
Left Side	18900/1880	20M QPSK(50,0)	0.083	0.045	3.71	22.66	23.50	0.101	2025/9/03	
Right Side	18900/1880	20M QPSK(50,0)	0.047	0.029	-2.04	22.66	23.50	0.057	2025/9/03	
Bottom Side	18900/1880	20M QPSK(50,0)	0.282	0.158	-0.74	22.66	23.50	0.342	2025/9/03	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.6. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Right Cheek	20175/1732.5	20M QPSK(1,99)	0.066	0.041	4.40	24.48	24.50	0.066	2025/9/04	13#
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.039	0.024	-2.24	24.48	24.50	0.039	2025/9/04	
Left Cheek	20175/1732.5	20M QPSK(1,99)	0.057	0.035	0.40	24.48	24.50	0.057	2025/9/04	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,99)	0.026	0.016	-2.06	24.48	24.50	0.026	2025/9/04	
50%RB										
Left Cheek	20175/1732.5	20M QPSK(50,0)	0.036	0.022	0.60	23.30	24.00	0.042	2025/9/04	
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.021	0.014	-4.29	23.30	24.00	0.025	2025/9/04	
Right Cheek	20175/1732.5	20M QPSK(50,0)	0.033	0.019	3.23	23.30	24.00	0.039	2025/9/04	
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.015	0.008	1.92	23.30	24.00	0.018	2025/9/04	

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.196	0.113	-2.84	24.48	24.50	0.197	2025/9/04	
Back	20175/1732.5	20M	0.447	0.257	0.02	24.48	24.50	0.449	2025/9/04	14#

Side		QPSK(1,99)								
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.109	0.060	3.46	23.30	24.00	0.128	2025/9/04	
Back Side	20175/1732.5	20M QPSK(50,0)	0.245	0.134	-1.14	23.30	24.00	0.288	2025/9/04	

NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.196	0.113	-2.84	24.48	24.50	0.197	2025/9/04	
Back Side	20175/1732.5	20M QPSK(1,99)	0.447	0.257	0.02	24.48	24.50	0.449	2025/9/04	14#
Left Side	20175/1732.5	20M QPSK(1,99)	0.120	0.066	-3.28	24.48	24.50	0.121	2025/9/04	
Right Side	20175/1732.5	20M QPSK(1,99)	0.069	0.039	0.65	24.48	24.50	0.069	2025/9/04	
Bottom Side	20175/1732.5	20M QPSK(1,99)	0.405	0.226	-0.62	24.48	24.50	0.407	2025/9/04	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.109	0.060	3.46	23.30	24.00	0.128	2025/9/04	
Back Side	20175/1732.5	20M QPSK(50,0)	0.245	0.134	-1.14	23.30	24.00	0.288	2025/9/04	
Left Side	20175/1732.5	20M QPSK(50,0)	0.069	0.037	-2.54	23.30	24.00	0.081	2025/9/04	
Right Side	20175/1732.5	20M QPSK(50,0)	0.037	0.021	0.89	23.30	24.00	0.043	2025/9/04	
Bottom Side	20175/1732.5	20M QPSK(50,0)	0.229	0.131	3.92	23.30	24.00	0.269	2025/9/04	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.7. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Right Cheek	20525/836.5	10M QPSK(1,49)	0.147	0.112	0.75	23.46	24.00	0.166	2025/9/02	15#
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,49)	0.085	0.062	-0.96	23.46	24.00	0.096	2025/9/02	
Left Cheek	20525/836.5	10M QPSK(1,49)	0.135	0.100	-1.46	23.46	24.00	0.153	2025/9/02	
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,49)	0.069	0.051	-3.22	23.46	24.00	0.078	2025/9/02	
50%RB										
Left Cheek	20525/836.5	10M QPSK(25,24)	0.076	0.058	2.81	22.65	23.00	0.082	2025/9/02	
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.048	0.032	-0.62	22.65	23.00	0.052	2025/9/02	
Right Cheek	20525/836.5	10M QPSK(25,24)	0.077	0.056	-1.95	22.65	23.00	0.083	2025/9/02	
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,24)	0.035	0.028	2.28	22.65	23.00	0.038	2025/9/02	

NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front	20525/836.5	10M	0.144	0.085	-1.08	23.46	24.00	0.163	2025/9/02	

Side		QPSK(1,49)								
Back Side	20525/836.5	10M QPSK(1,49)	0.210	0.129	0.61	23.46	24.00	0.238	2025/9/02	16#
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.083	0.045	-2.96	22.65	23.00	0.090	2025/9/02	
Back Side	20525/836.5	10M QPSK(25,24)	0.113	0.069	4.05	22.65	23.00	0.122	2025/9/02	

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,49)	0.144	0.085	-1.08	23.46	24.00	0.163	2025/9/02	
Back Side	20525/836.5	10M QPSK(1,49)	0.210	0.129	0.61	23.46	24.00	0.238	2025/9/02	16#
Left Side	20525/836.5	10M QPSK(1,49)	0.104	0.061	-1.55	23.46	24.00	0.118	2025/9/02	
Right Side	20525/836.5	10M QPSK(1,49)	0.130	0.077	-2.74	23.46	24.00	0.147	2025/9/02	
Bottom Side	20525/836.5	10M QPSK(1,49)	0.198	0.116	3.79	23.46	24.00	0.224	2025/9/02	
50%RB										
Front Side	20525/836.5	10M QPSK(25,24)	0.083	0.045	-2.96	22.65	23.00	0.090	2025/9/02	
Back Side	20525/836.5	10M QPSK(25,24)	0.113	0.069	4.05	22.65	23.00	0.122	2025/9/02	
Left Side	20525/836.5	10M QPSK(25,24)	0.054	0.031	0.52	22.65	23.00	0.059	2025/9/02	
Right Side	20525/836.5	10M QPSK(25,24)	0.077	0.039	0.05	22.65	23.00	0.083	2025/9/02	
Bottom Side	20525/836.5	10M QPSK(25,24)	0.109	0.062	-0.04	22.65	23.00	0.118	2025/9/02	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.8. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	21100/2535	20M QPSK(1,0)	0.091	0.053	0.03	24.57	25.00	0.100	2025/9/09	17#
Left Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.047	0.027	3.54	24.57	25.00	0.052	2025/9/09	
Right Cheek	21100/2535	20M QPSK(1,0)	0.086	0.048	1.73	24.57	25.00	0.095	2025/9/09	
Right Tilt 15 Degree	21100/2535	20M QPSK(1,0)	0.043	0.024	-3.78	24.57	25.00	0.047	2025/9/09	
50%RB										
Left Cheek	21100/2535	20M QPSK(50,49)	0.051	0.028	4.82	23.43	23.50	0.052	2025/9/09	
Left Tilt 15 Degree	21100/2535	20M QPSK(50,49)	0.027	0.016	-4.75	23.43	23.50	0.027	2025/9/09	
Right Cheek	21100/2535	20M QPSK(50,49)	0.050	0.024	-0.03	23.43	23.50	0.051	2025/9/09	
Right Tilt 15 Degree	21100/2535	20M QPSK(50,49)	0.026	0.014	-0.76	23.43	23.50	0.026	2025/9/09	

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.306	0.140	-1.14	24.57	25.00	0.338	2025/9/09	
Back	21100/2535	20M	0.901	0.486	1.44	24.57	25.00	0.995	2025/9/09	18#

Side		QPSK(1,0)								
Back Side	20850/2510	20M QPSK(1,0)	0.854	0.419	-1.36	24.35	25.00	0.992	2025/9/09	
Back Side	21350/2560	20M QPSK(1,0)	0.837	0.464	-2.74	24.73	25.00	0.891	2025/9/09	
BackSide Repeated	21100/2535	20M QPSK(1,0)	0.888	0.478	2.87	24.57	25.00	0.980	2025/9/09	
50%RB										
Front Side	21100/2535	20M QPSK(50,49)	0.162	0.070	4.23	23.43	23.50	0.165	2025/9/09	
Back Side	21100/2535	20M QPSK(50,49)	0.594	0.251	2.59	23.43	23.50	0.604	2025/9/09	

NOTE: Body-Worn SAR test results of LTE Band 7

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.306	0.140	-1.14	24.57	25.00	0.338	2025/9/09	
Back Side	21100/2535	20M QPSK(1,0)	0.901	0.486	1.44	24.57	25.00	0.995	2025/9/09	18#
Left Side	21100/2535	20M QPSK(1,0)	0.105	0.048	1.68	24.57	25.00	0.116	2025/9/09	
Right Side	21100/2535	20M QPSK(1,0)	0.159	0.073	1.18	24.57	25.00	0.176	2025/9/09	
Bottom Side	21100/2535	20M QPSK(1,0)	0.654	0.365	-2.37	24.57	25.00	0.722	2025/9/09	
Back Side	20850/2510	20M QPSK(1,0)	0.854	0.419	-1.36	24.35	25.00	0.992	2025/9/09	
Back Side	21350/2560	20M QPSK(1,0)	0.837	0.464	-2.74	24.73	25.00	0.891	2025/9/09	
BackSide Repeated	21100/2535	20M QPSK(1,0)	0.888	0.478	2.87	24.57	25.00	0.980	2025/9/09	
50%RB										
Front Side	21100/2535	20M QPSK(50,49)	0.162	0.070	4.23	23.43	23.50	0.165	2025/9/09	

Back Side	21100/2535	20M QPSK(50,49)	0.594	0.251	2.59	23.43	23.50	0.604	2025/9/09	
Left Side	21100/2535	20M QPSK(50,49)	0.058	0.027	2.34	23.43	23.50	0.059	2025/9/09	
Right Side	21100/2535	20M QPSK(50,49)	0.088	0.044	-3.15	23.43	23.50	0.089	2025/9/09	
Bottom Side	21100/2535	20M QPSK(50,49)	0.529	0.271	1.32	23.43	23.50	0.538	2025/9/09	
100%RB										
Back Side	21100/2535	20M QPSK(100,0)	0.512	0.258	1.62	23.36	23.50	0.529	2025/9/09	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.9. SAR measurement Result of LTE Band 38

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Left Cheek	38000/2595	20M QPSK(1,0)	0.033	0.021	4.80	25.04	25.50	0.037	2025/9/09	19#
Left Tilt 15 Degree	38000/2595	20M QPSK(1,0)	0.018	0.016	-3.61	25.04	25.50	0.020	2025/9/09	
Right Cheek	38000/2595	20M QPSK(1,0)	0.030	0.019	3.03	25.04	25.50	0.033	2025/9/09	
Right Tilt 15 Degree	38000/2595	20M QPSK(1,0)	0.015	0.013	-0.95	25.04	25.50	0.017	2025/9/09	
50%RB										
Left Cheek	38000/2595	20M QPSK(50,49)	0.018	0.012	-4.17	23.50	24.00	0.020	2025/9/09	
Left Tilt 15 Degree	38000/2595	20M QPSK(50,49)	0.010	0.008	-2.99	23.50	24.00	0.011	2025/9/09	
Right Cheek	38000/2595	20M QPSK(50,49)	0.017	0.011	3.97	23.50	24.00	0.019	2025/9/09	
Right Tilt 15	38000/2595	20M QPSK(50,49)	0.008	0.007	-3.98	23.50	24.00	0.009	2025/9/09	

Degree										

NOTE: Head SAR test results of LTE Band 38

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	38000/2595	20M QPSK(1,0)	0.183	0.069	-1.29	25.04	25.50	0.203	2025/9/09	
Back Side	38000/2595	20M QPSK(1,0)	0.607	0.240	2.27	25.04	25.50	0.675	2025/9/09	20#
50%RB										
Front Side	38000/2595	20M QPSK(50,49)	0.093	0.035	-1.05	23.50	24.00	0.104	2025/9/09	
Back Side	38000/2595	20M QPSK(50,49)	0.360	0.132	-3.36	23.50	24.00	0.404	2025/9/09	

NOTE: Body-Worn SAR test results of LTE Band 38

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	38000/2595	20M QPSK(1,0)	0.183	0.069	-1.29	25.04	25.50	0.203	2025/9/09	
Back Side	38000/2595	20M QPSK(1,0)	0.607	0.240	2.27	25.04	25.50	0.675	2025/9/09	20#
Left Side	38000/2595	20M QPSK(1,0)	0.062	0.024	0.13	25.04	25.50	0.069	2025/9/09	
Right Side	38000/2595	20M QPSK(1,0)	0.098	0.038	-2.17	25.04	25.50	0.109	2025/9/09	
Bottom Side	38000/2595	20M QPSK(1,0)	0.589	0.226	-0.05	25.04	25.50	0.655	2025/9/09	
50%RB										
Front Side	38000/2595	20M QPSK(50,49)	0.093	0.035	-1.05	23.50	24.00	0.104	2025/9/09	
Back Side	38000/2595	20M QPSK(50,49)	0.360	0.132	-3.36	23.50	24.00	0.404	2025/9/09	
Left Side	38000/2595	20M	0.033	0.012	-4.37	23.50	24.00	0.037	2025/9/09	

		QPSK(50,49)								
Right Side	38000/2595	20M QPSK(50,49)	0.049	0.020	1.36	23.50	24.00	0.055	2025/9/09	
Bottom Side	38000/2595	20M QPSK(50,49)	0.320	0.116	-4.52	23.50	24.00	0.359	2025/9/09	

NOTE: Hotspot SAR test results of LTE Band 38

10.1.10. SAR measurement Result of WLAN2.4G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Left Cheek	6/2437	802.11b	0.049	0.028	1.68	13.55	14.00	0.054	2025/9/01	9#
Left Tilt 15 Degree	6/2437	802.11b	0.026	0.014	0.73	13.55	14.00	0.029	2025/9/01	
Right Cheek	6/2437	802.11b	0.045	0.025	-3.36	13.55	14.00	0.050	2025/9/01	
Right Tilt 15 Degree	6/2437	802.11b	0.021	0.012	3.69	13.55	14.00	0.023	2025/9/01	

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.052	0.024	0.07	13.55	14.00	0.058	2025/9/01	
Back Side	6/2437	802.11b	0.130	0.060	0.78	13.55	14.00	0.144	2025/9/01	

NOTE: Body-worn SAR test results of WLAN 2.4G

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.052	0.024	0.07	13.55	14.00	0.058	2025/9/01	

Back Side	6/2437	802.11b	0.130	0.060	0.78	13.55	14.00	0.144	2025/9/01	
Right Side	6/2437	802.11b	0.054	0.025	-2.82	13.55	14.00	0.060	2025/9/01	
Top Side	6/2437	802.11b	0.134	0.066	-3.68	13.55	14.00	0.149	2025/9/01	10#

NOTE: Hotspot SAR test results of WLAN2.4G

10.2. Simultaneous Transmission Analysis

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

1) Scalar SAR summation < 1.6W/kg.

2) SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.197	0.054	0.251	N/A	N/A
	Left Tilt 15 Degree	0.103	0.029	0.132	N/A	N/A
	Right Cheek	0.217	0.05	0.267	N/A	N/A
	Right Tilt 15 Degree	0.111	0.023	0.134	N/A	N/A
Body-Worn	Front Side	0.338	0.058	0.396	N/A	N/A
	Back Side	0.995	0.144	1.139	N/A	N/A
Hotspot	Front Side	0.338	0.058	0.396	N/A	N/A
	Back Side	0.995	0.144	1.139	N/A	N/A
	Left Side	0.16	N/A	0.16	N/A	N/A
	Right Side	0.176	0.06	0.236	N/A	N/A
	Top Side	N/A	0.149	0.149	N/A	N/A
	Bottom Side	1.091	N/A	1.091	N/A	N/A

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.197	0.236	0.433	N/A	N/A

	Left Tilt 15 Degree	0.103	0.236	0.339	N/A	N/A
	Right Cheek	0.217	0.236	0.453	N/A	N/A
	Right Tilt 15 Degree	0.111	0.236	0.347	N/A	N/A
Body-Worn	Front Side	0.338	0.118	0.456	N/A	N/A
	Back Side	0.995	0.118	1.113	N/A	N/A
Hotspot	Front Side	0.338	0.118	0.456	N/A	N/A
	Back Side	0.995	0.118	1.113	N/A	N/A
	Left Side	0.16	N/A	0.16	N/A	N/A
	Right Side	0.176	0.118	0.294	N/A	N/A
	Top Side	N/A	0.118	0.118	N/A	N/A
	Bottom Side	1.091	N/A	1.091	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 835MHz
MEASUREMENT 2 System Performance Check - 1800MHz
MEASUREMENT 3 System Performance Check - 1900MHz
MEASUREMENT 4 System Performance Check - 2450MHz
MEASUREMENT 5 System Performance Check - 2600MHz

1# System check at 835 MHz
Date of measurement: 2/9/2025

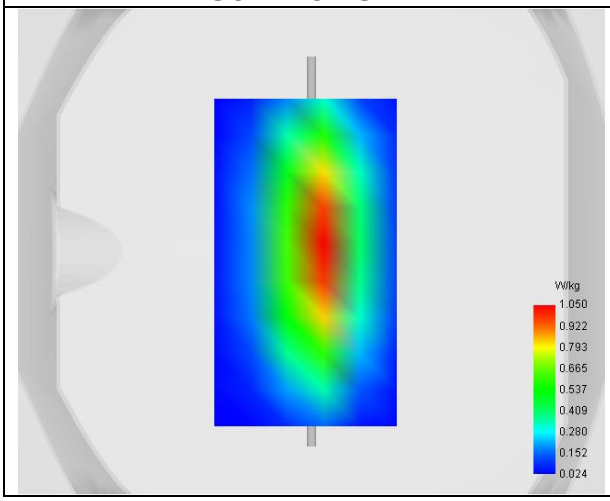
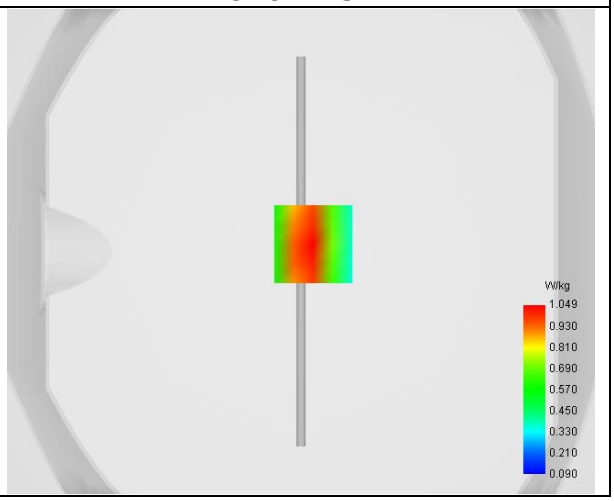
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	CW
Channels/Frequency	Middle

B. Permitivity

Middle TX Frequency (MHz)	835.00
Relative permitivity (real part)	41.77
Relative permitivity (imaginary part)	19.61
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

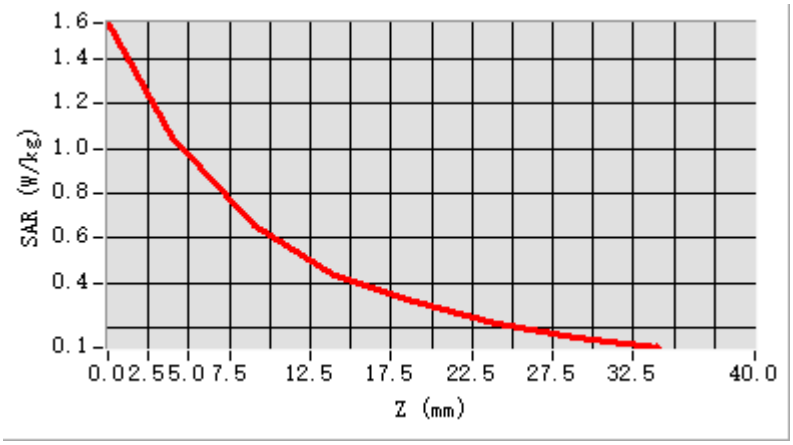
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.59 W/kg

D. SAR 1g & 10g

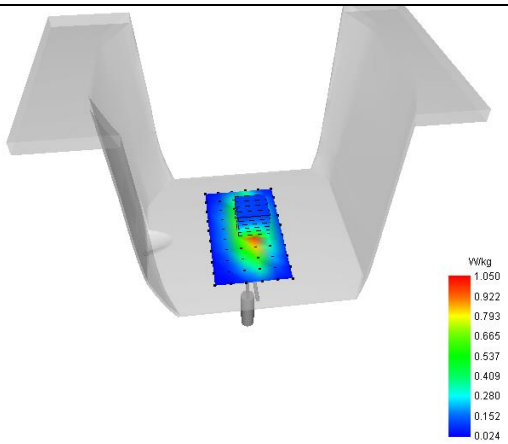
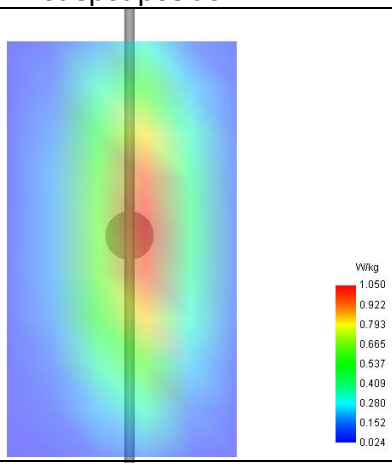
SAR 10g (W/Kg)	0.606
SAR 1g (W/Kg)	1.016
Variation (%)	0.12
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	62.70

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.563	1.049	0.658	0.431	0.313	0.216	0.154



F. 3D Image

3D screen shot	Hot spot position
	

2# System check at 1800 MHz
Date of measurement: 4/9/2025

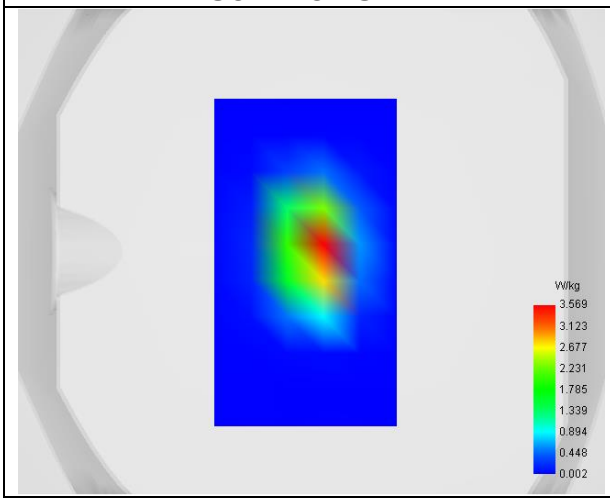
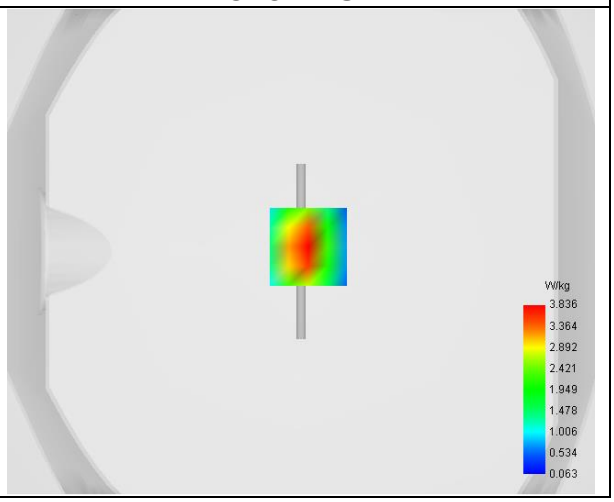
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW
Channels/Frequency	Middle

B. Permitivity

Middle TX Frequency (MHz)	1800.00
Relative permitivity (real part)	38.85
Relative permitivity (imaginary part)	13.58
Conductivity (S/m)	1.36

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

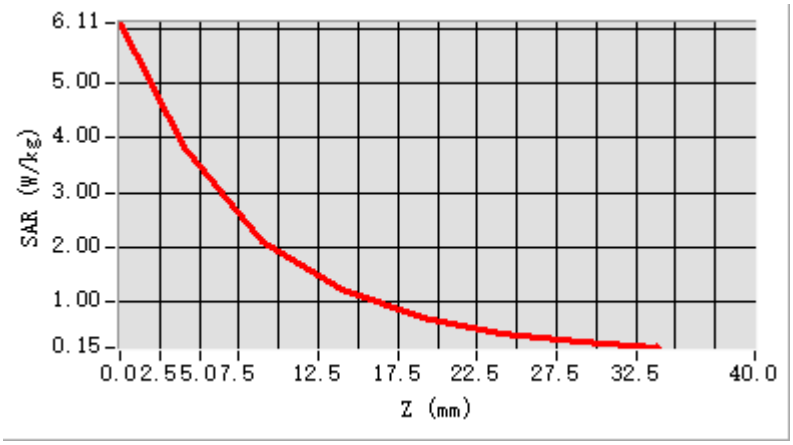
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 6.19 W/kg

D. SAR 1g & 10g

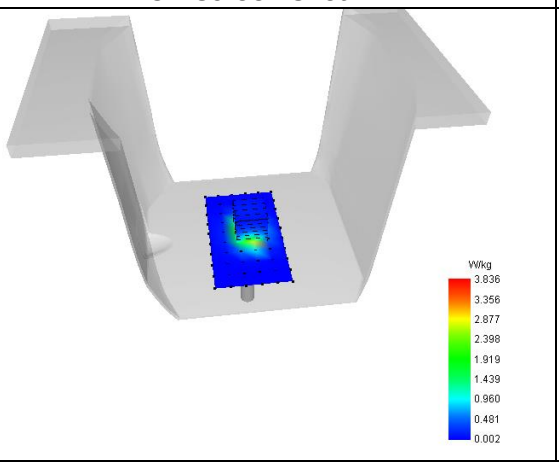
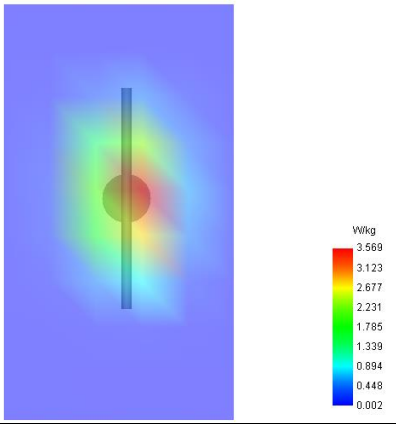
SAR 10g (W/Kg)	1.839
SAR 1g (W/Kg)	3.642
Variation (%)	-0.10
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	54.58

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.114	3.836	2.094	1.204	0.700	0.418	0.253



F. 3D Image

3D screen shot	Hot spot position
	

3# System check at 1900 MHz
Date of measurement: 3/0/2025

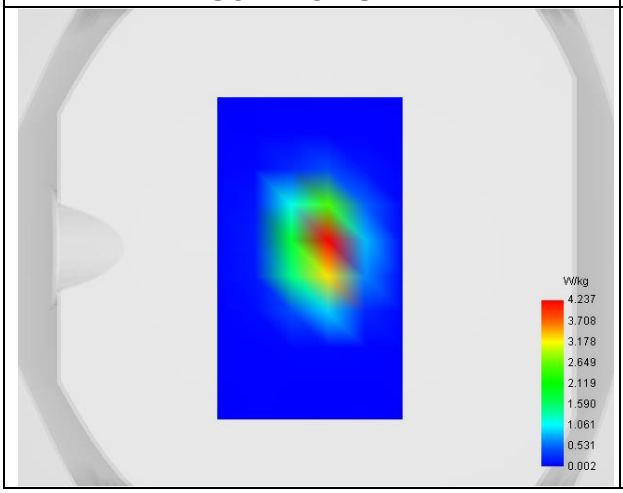
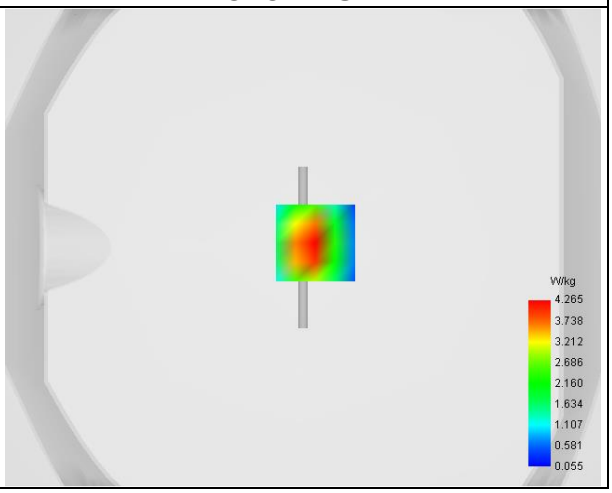
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW
Channels/Frequency	Middle

B. Permitivity

Middle TX Frequency (MHz)	1900.00
Relative permitivity (real part)	38.08
Relative permitivity (imaginary part)	13.34
Conductivity (S/m)	1.41

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

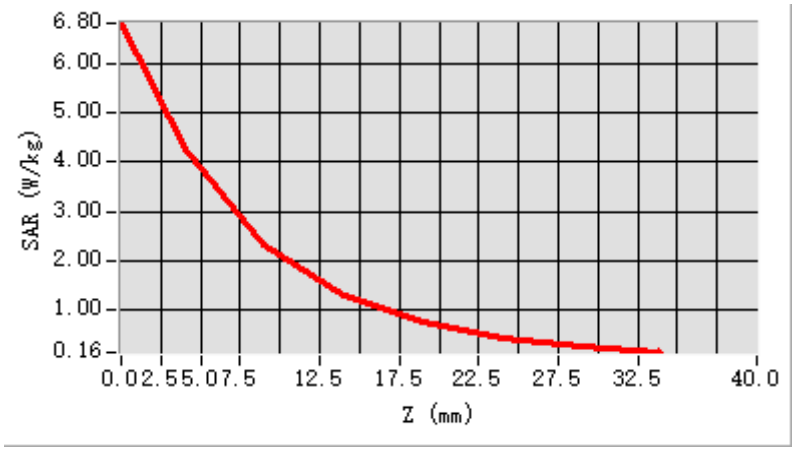
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 6.99 W/kg

D. SAR 1g & 10g

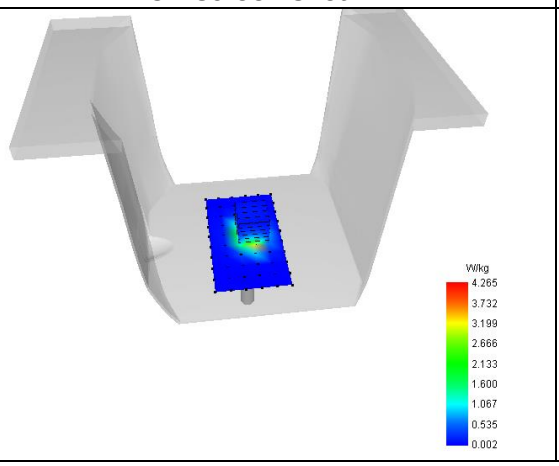
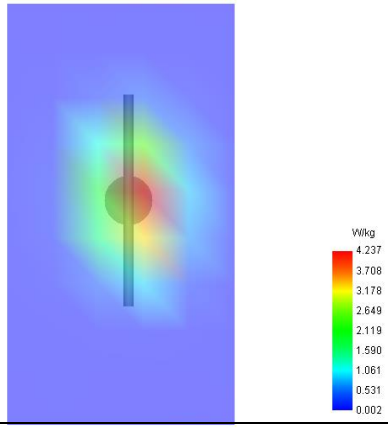
SAR 10g (W/Kg)	2.068
SAR 1g (W/Kg)	4.201
Variation (%)	-0.02
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.38

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.803	4.265	2.319	1.316	0.756	0.444	0.264



F. 3D Image

3D screen shot	Hot spot position
	

4# System check at 2450 MHz
Date of measurement: 1/9/2025

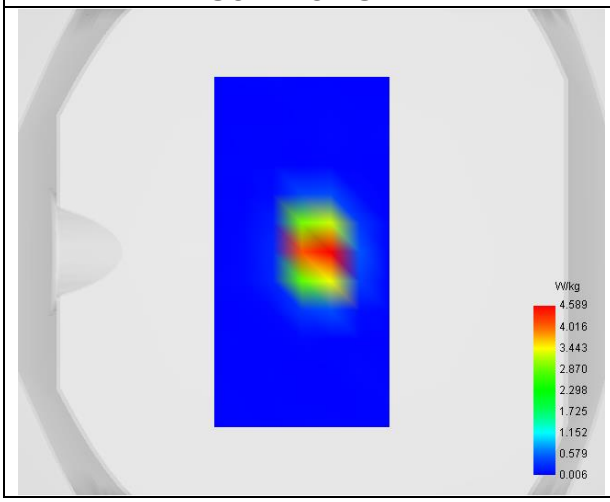
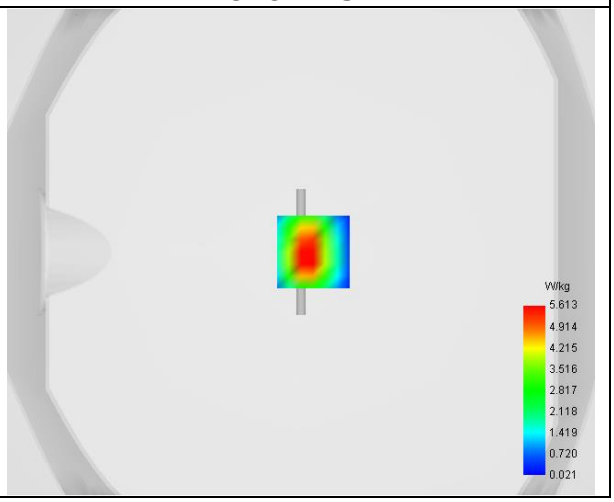
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.63
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW
Channels/Frequency	Middle

B. Permitivity

Middle TX Frequency (MHz)	2450.00
Relative permitivity (real part)	37.92
Relative permitivity (imaginary part)	13.09
Conductivity (S/m)	1.78

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

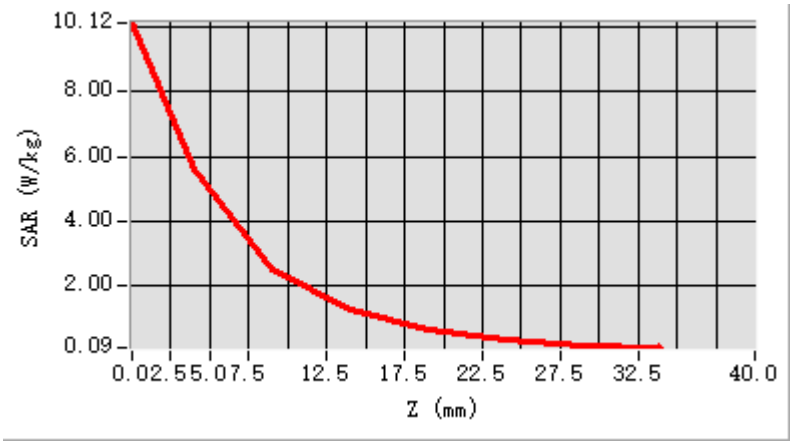
Maximum location: X=5.00, Y=0.00 ; SAR Peak: 10.14 W/kg

D. SAR 1g & 10g

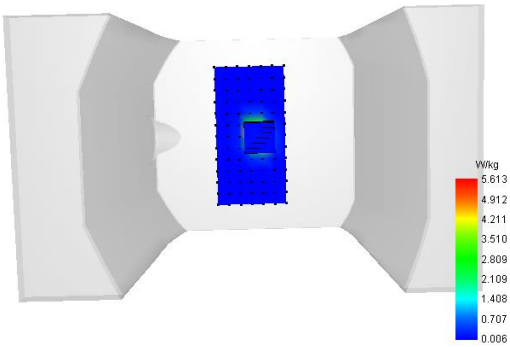
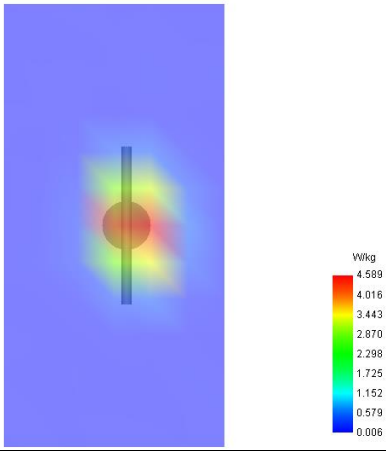
SAR 10g (W/Kg)	2.322
SAR 1g (W/Kg)	5.359
Variation (%)	-1.32
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	48.28

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.116	5.613	2.517	1.265	0.673	0.358	0.180



F. 3D Image

3D screen shot	Hot spot position
	

5# System check at 2600 MHz
Date of measurement: 9/9/2025

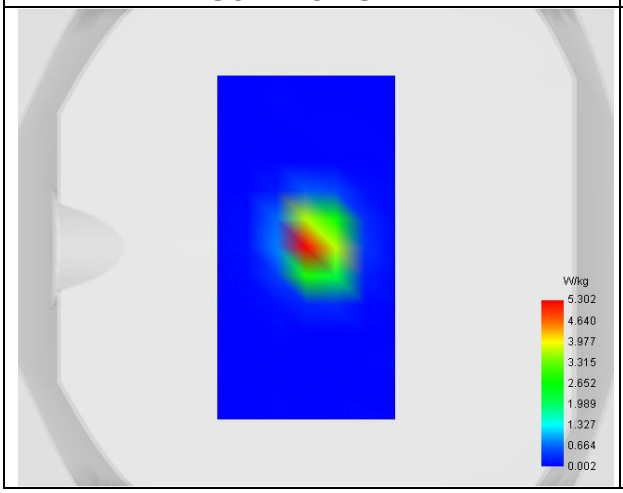
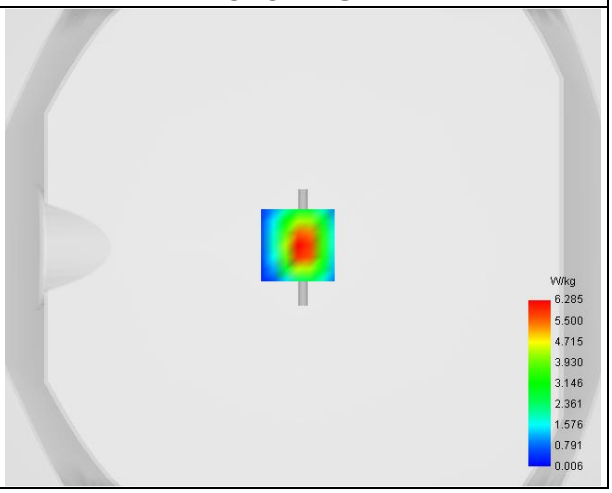
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.52
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW
Channels/Frequency	Middle

B. Permitivity

Middle TX Frequency (MHz)	2600.00
Relative permitivity (real part)	39.59
Relative permitivity (imaginary part)	13.44
Conductivity (S/m)	1.94

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

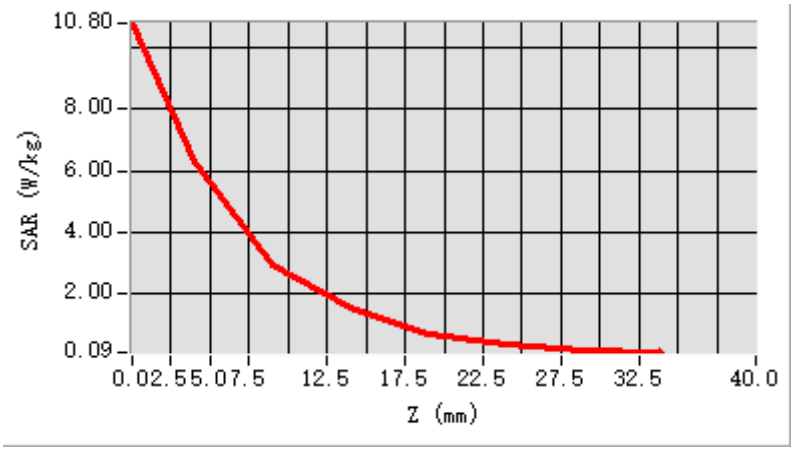
Maximum location: X=-2.00, Y=1.00 ; SAR Peak: 10.95 W/kg

D. SAR 1g & 10g

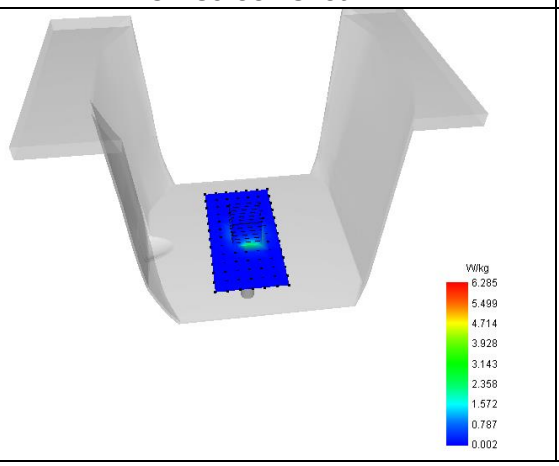
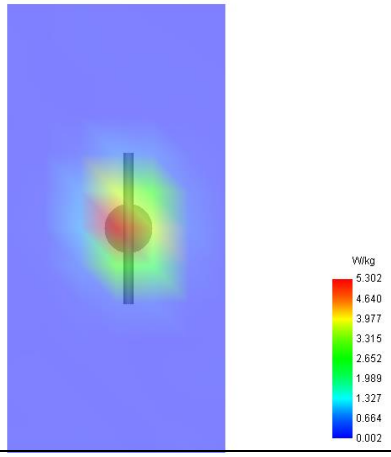
SAR 10g (W/Kg)	2.392
SAR 1g (W/Kg)	5.731
Variation (%)	-1.96
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	47.02

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.802	6.285	2.955	1.530	0.673	0.334	0.161



F. 3D Image

3D screen shot	Hot spot position
	

13. Appendix C. Plots of High SAR Measurement

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1# SAR Measurement at GPRS850 (Cheek, Right)
Date of measurement: 2/9/2025

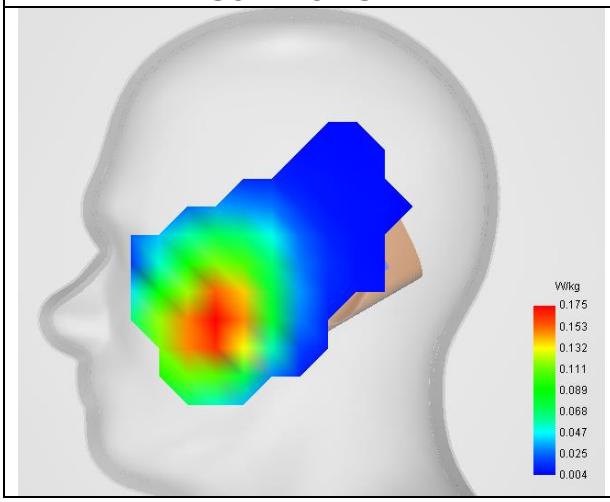
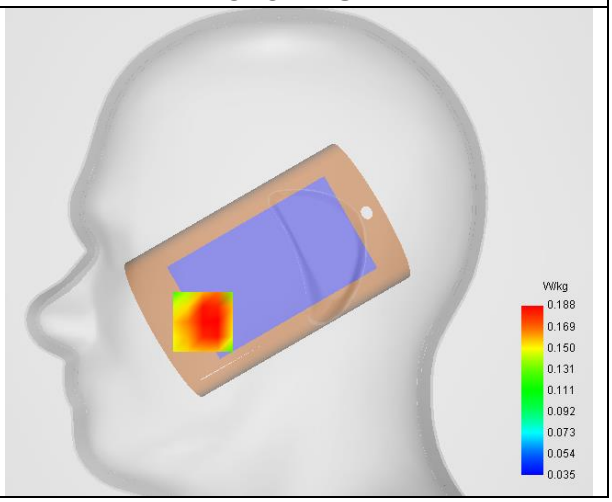
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GPRS850
Signal	TDMA (GPRS)
Channels/Frequency	Middle (189)/ frequency 836.40 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permitivity

Middle TX Frequency (MHz)	836.40
Relative permitivity (real part)	41.69
Relative permitivity (imaginary part)	19.64
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

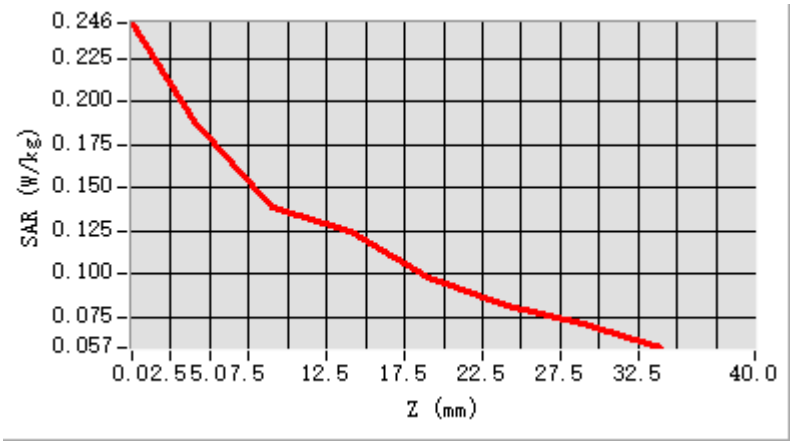
Maximum location: X=-51.00, Y=-37.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

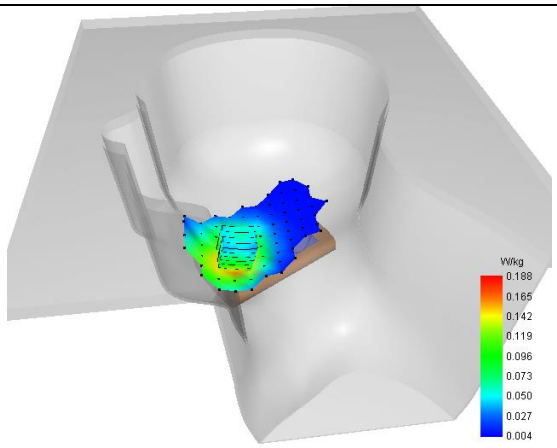
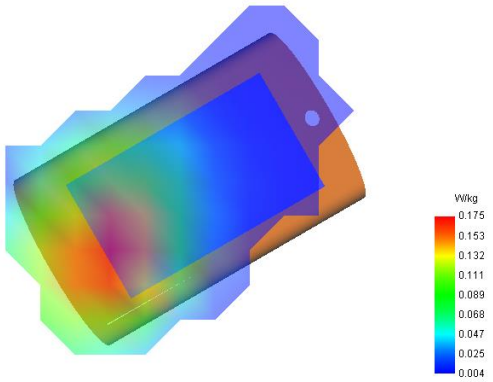
SAR 10g (W/Kg)	0.139
SAR 1g (W/Kg)	0.188
Variation (%)	-1.51
Horizontal validation criteria: minimum distance (mm)	0.00
Vertical validation criteria: SAR ratio M2/M1 (%)	0.00

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.246	0.188	0.139	0.125	0.098	0.081	0.071



F. 3D Image

3D screen shot	Hot spot position
	

2# SAR Measurement at GPRS850 (Body, Validation Plane)
Date of measurement: 2/9/2025

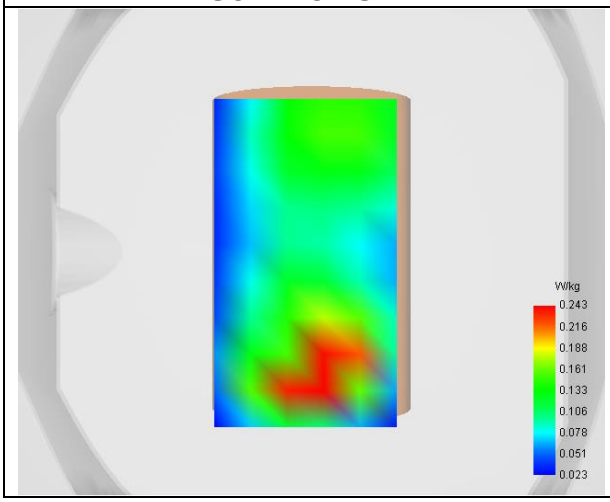
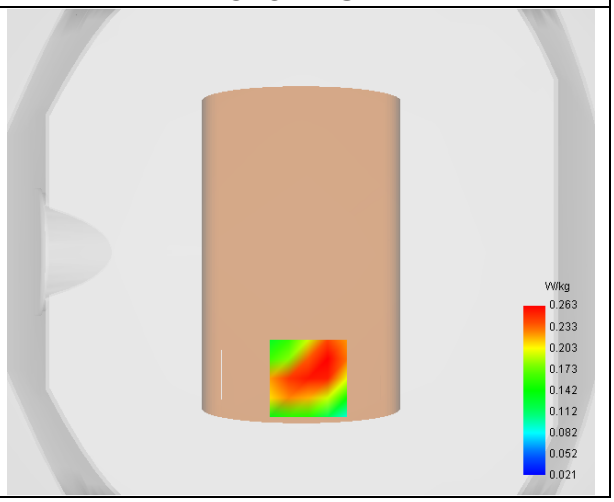
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Signal	TDMA (GPRS)
Channels/Frequency	Middle (189)/ frequency 836.40 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permitivity

Middle TX Frequency (MHz)	836.40
Relative permitivity (real part)	41.69
Relative permitivity (imaginary part)	19.64
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=-52.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.152
SAR 1g (W/Kg)	0.255
Variation (%)	-2.31
Horizontal validation criteria: minimum distance (mm)	24.00
Vertical validation criteria: SAR ratio M2/M1 (%)	68.19

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.421	0.263	0.148	0.118	0.068	0.055	0.034