

FCC SAR EVALUATION REPORT

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

Product Name: Solis TAG

Model No.: SolTAG25

Serial Model: N/A

Brand Name: N/A

Report No.: AiTSZ-251219047FW7

FCC ID: 2A9UP-SOLTAG25

Prepared for

SIMO Holdings Inc.

P.O.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: SIMO Holdings Inc.
Address: P.O.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands

Manufacturer's Name: SIMO Holdings Inc.
Address: P.O.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands

Product description

Product name: Solis TAG
Trademark: N/A
Model and/or type reference ...: SolTAG25
Serial Model.....: N/A

FCC 47 CFR Part 2(2.1093)

Standards: IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Guangdong Asia Hongke Test Technology Limited. 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: AiTSZ-251219047-1

Date of Test

Date (s) of performance of tests: Dec. 19, 2025 ~ Dec. 30, 2025

Date of Issue.....: Jan. 13, 2026

Test Result: **Pass**

Reviewed by:

ken zou

Ken Zou

Approved by:

Jack Li

Jack Li



※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jan. 13, 2026	Jack Li

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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
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 as follows.

Band	Max SAR Value Reported(W/kg)	
	1-g Body&Hotspot (Separation distance of 5mm)	Max SAR Summation
WCDMA Band II	0.511	Body: 1.418
WCDMA Band IV	0.498	
WCDMA Band V	0.308	
LTE band 2	0.509	
LTE band 4	0.552	
LTE band 5	0.357	
LTE band 7	0.643	
LTE band 12	0.385	
LTE band 17	0.387	
LTE band 25	0.564	
LTE band 26	0.355	
LTE band 30	0.475	
LTE band 41	0.756	
LTE band 66	0.511	
2.4GHz WLAN	0.476	
5.2GHz WLAN	0.626	
5.8GHz WLAN	0.662	

NOTE: The Max SAR Summation 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	Solis TAG		
Model Name	SolTAG25		
Family Model	N/A		
Model Difference	N/A		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	FPC Antenna		
Power Supply	DC 5V		
Hardware version	N/A		
Software version	N/A		
Device Operating Configurations			
Supporting Mode(s)	WCDMABand2/4/5,LTEBand2/4/5/7/12/17/25/26/30/41/66, WLAN 2.4G/5G, Bluetooth		
Test Modulation	WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	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 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26A	814-824	859-869
	LTE Band 26B	824-849	869-894
	LTE Band 30	2305-2315	2350-2360
	LTE Band 41	2555-2655	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
Power Class	3, tested with power control “all 1”(WCDMA Band 2)		

	3, tested with power control "all 1"(WCDMA Band 4)
	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 12)
	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 25)
	3, tested with power control all Max.(LTE Band 26)
	3, tested with power control all Max.(LTE Band 30)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(LTE Band 66)

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 v02r05
KDB 941225 D06 Hotspot SAR v02r01

1.5. Ambient Condition

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

1.6. Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

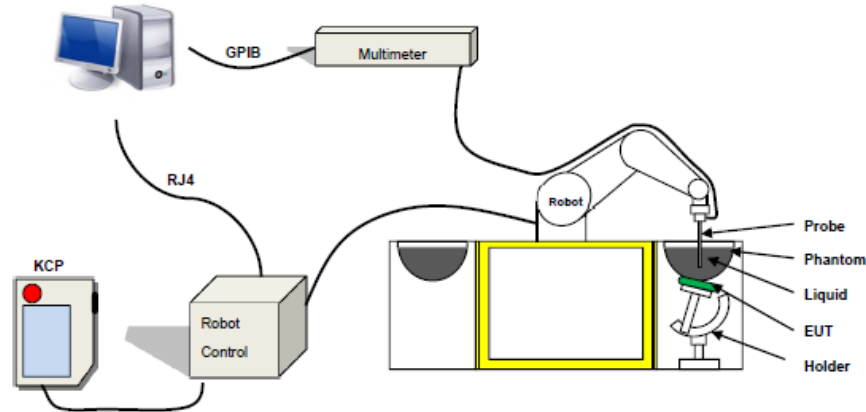
The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

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. 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 EPGO 0523-403 with following specifications is used.



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

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within $\pm 0.25\text{dB}$. 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.

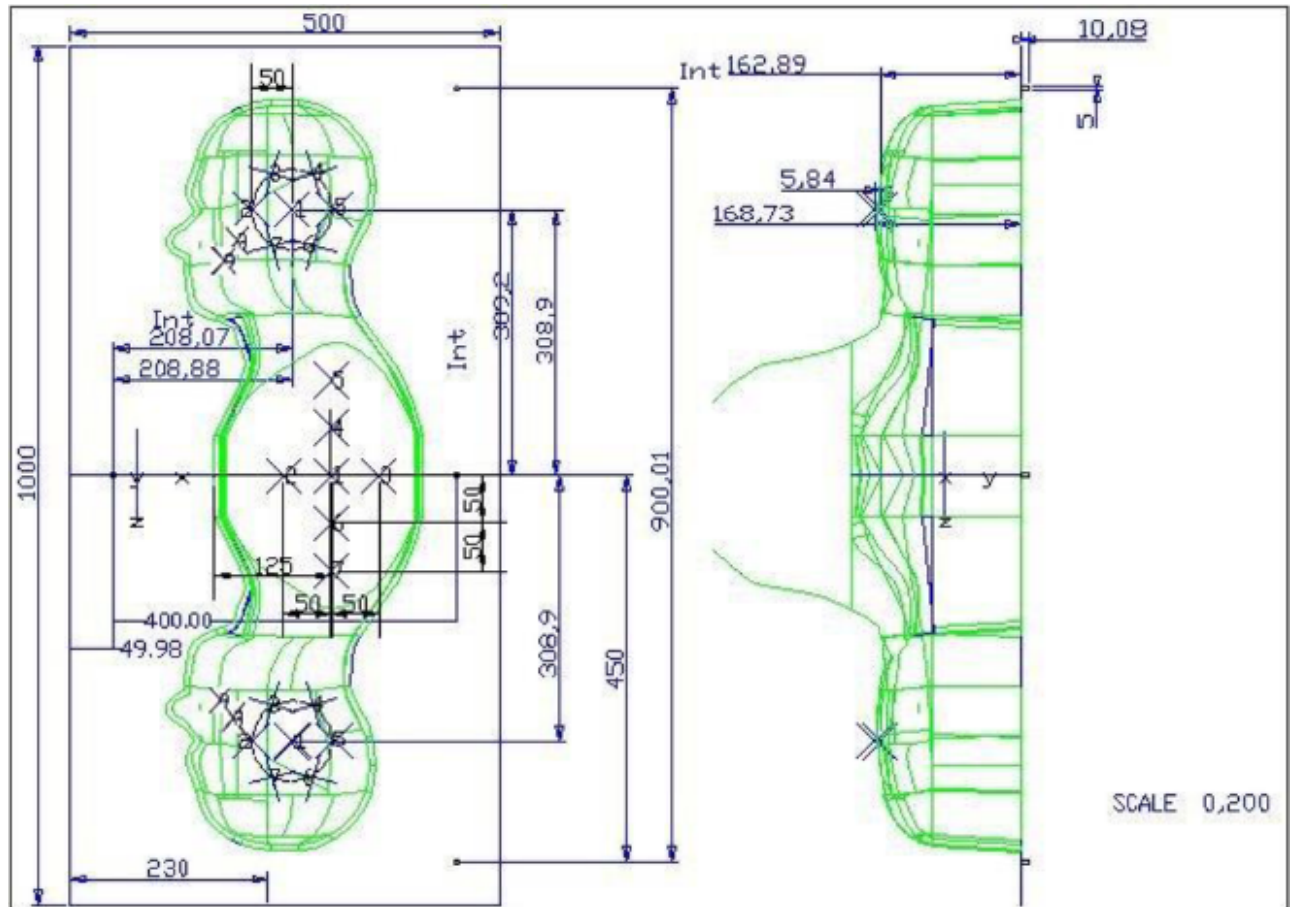
2.4. Phantoms

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



SAM

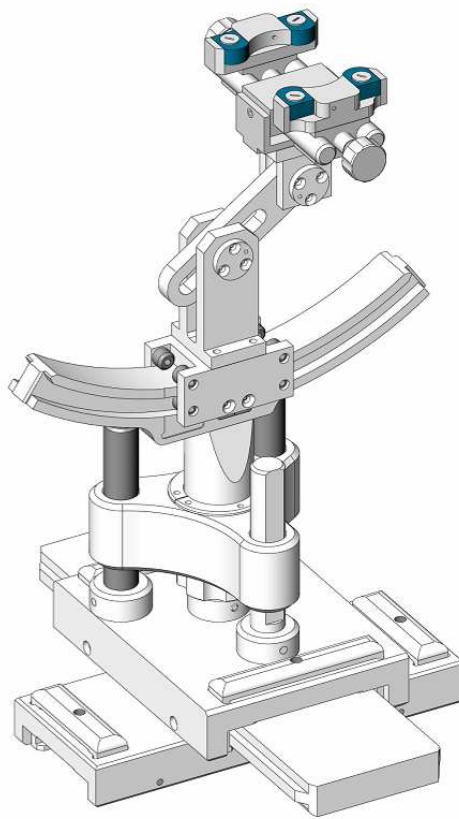
2.5. Technical Data



Left Head(mm)		Right Head(mm)		Flat Part(mm)	
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.

2.6. Device Holder



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

2.7. 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	EPGO 0523-403	Sep. 09, 2025	Sep. 08, 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 DI P 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. 21, 2024	Feb. 20, 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	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026

☒	R&S	Wideband radio communication tester	CMW500	116581	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	HP	Network Analyzer	8753D	3410J01136	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102538	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102140	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102215	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-494-4	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025

					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-492-1	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-490-6	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power sensor	E9301A	MY41495644	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 18, 2021	Jul. 17, 2024
					Jul. 17, 2024	Jul. 16, 2027
☒	N/A	Thermometer	N/A	LES-085	Sep. 23, 2024	Sep. 22, 2027
☒	MVG	SAR Phantom	SSM2	SN 24/11 SAM87	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 24/11 MSH73	NCR	NCR

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 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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5 · Δz _{Zoom} (n-1)	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: 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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> 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 used to determine 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 for 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 defined 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 $\pm 5\%$, 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									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
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.



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 $\pm 5\%$ of the target values.

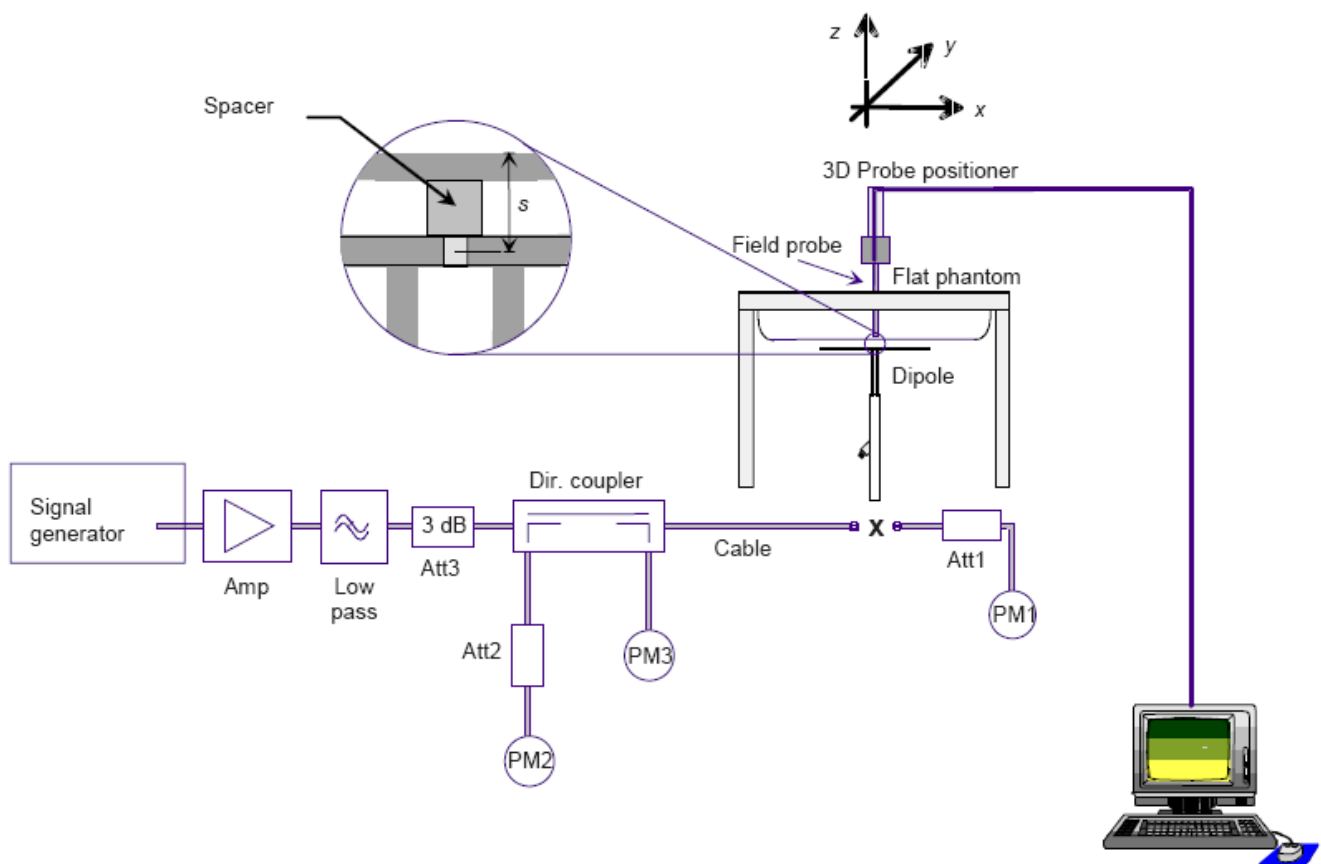
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	$\sigma \text{ (S/m)} (\pm 5\%)$	ϵ_r	$\sigma \text{ (S/m)}$		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.90	0.89	21.1 °C	Dec. 19, 2025
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	40.94	0.90	21.4 °C	Dec. 20, 2025
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.52	1.40	21.6 °C	Dec. 21, 2025
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.27	1.32	21.5 °C	Dec. 22, 2025
Head 2300	2300	39.47 (37.50~41.44)	1.66 (1.58~1.74)	39.50	1.67	21.8 °C	Dec. 23, 2025
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	41.04	1.80	21.3 °C	Dec. 24, 2025
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.00	1.96	21.0 °C	Dec. 25, 2025
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.00	4.66	21.9 °C	Dec. 26, 2025
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.30	5.27	21.2 °C	Dec. 30, 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. It is fed with a power of 100mW (below 5GHz) or 25mW (above 5GHz). 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 $\pm 10\%$. 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	Power fed to reference dipole (mW)	Measured SAR Value		Measured SAR (Normalized to 1W)		Target SAR Value (1W)		Deviation (%)		Test Date
		1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	
750MHz	100	0.930	0.621	9.30	6.21	8.60	5.78	8.14%	7.44%	Dec. 19, 2025
835MHz	100	1.011	0.612	10.11	6.12	9.40	6.28	7.55%	-2.55%	Dec. 20, 2025
1800MHz	100	3.832	2.025	38.32	20.25	37.06	20.01	3.40%	1.20%	Dec. 21, 2025
1900MHz	100	4.154	2.153	41.54	21.53	39.69	20.92	4.66%	2.92%	Dec. 22, 2025
2300MHz	100	4.723	2.223	47.23	22.23	50.63	23.51	-6.72%	-5.44%	Dec. 23, 2025
2450MHz	100	5.184	2.359	51.84	23.59	50.05	23.80	3.58%	-0.88%	Dec. 24, 2025
2600MHz	100	5.433	2.523	54.33	25.23	54.16	24.85	0.31%	1.53%	Dec. 25, 2025
5200MHz	25	3.678	1.303	147.12	52.12	162.59	56.21	-9.51%	-7.28%	Dec. 26, 2025
5800MHz	25	4.106	1.406	164.24	56.24	182.2	61.32	-9.86%	-8.28%	Dec. 30, 2025

5. 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 ($\sim 10\%$ 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 .

6. SAR Measurement Uncertainty

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

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.72	2	2.86	1	2.86	∞
CF _{drift}	Probe calibration drift	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
LIN	Probe linearity and detection limit	R	1.27	$\sqrt{3}$	0.73	1	0.73	∞
BBS	Broadband signal	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
ISO	Probe isotropy	R	0.16	$\sqrt{3}$	0.09	1	0.09	∞
DAE	Other probe and data acquisition errors	N	2.4	1	2.40	1	2.40	∞
AMB	RF ambient and noise	N	3.51	1	3.51	1	3.51	∞
Δ_{xyz}	Probe positioning errors	N	1.2	1	1.20	$2/\delta$	1.20	
DAT	Data processing errors	N	2.1	1	2.10	1	2.10	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.1	1	4.1	c_ϵ, c_σ	4.10	∞
LIQ(T_c)	Temperature effects (medium)	R	2.7	$\sqrt{3}$	1.56	c_ϵ, c_σ	1.56	∞
EPS	Shell permittivity	R	2.1	$\sqrt{3}$	1.21	See 8.4.2.3	0.30	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.7	1	0.7	2	1.40	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.2	1	1.2	1	1.20	5
H	Device holder effects	N	3.8	1	3.8	1	3.80	
MOD	Effect of operating mode on probe sensitivity	R	3.42	$\sqrt{3}$	1.97	1	1.97	∞
TAS	Time-average SAR	R	1.8	$\sqrt{3}$	1.04	1	1.04	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	4.5	1	4.5	1	4.50	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.4	1	1.4	1	1.40	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.4	1	2.4	1	2.40	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	3.7	1	3.7	1	3.70	
C(R)	SAR scaling	R	1.8	$\sqrt{3}$	1.04	1	1.04	
u(Δ SAR)	Combined uncertainty						10.84	
U	Expanded uncertainty and effective degrees of freedom					U =	21.68	

7. RF Exposure Positions

7.1. DONGLE TRANSMITTERS

Test all USB orientations [see figure below: (A) Horizontal-Up, (B) Horizontal-Down, (C) Vertical-Front, and (D) Vertical-Back] with a device-to-phantom separation distance of 5 mm or less, according to KDB Publication 447498 D01 requirements. These test orientations are intended for the exposure conditions found in typical laptop/notebook/netbook or tablet computers with either horizontal or vertical USB connector configurations at various locations in the keyboard section of the computer. Current generation portable host computers should be used to establish the required SAR measurement separation distance. The same test separation distance must be used to test all frequency bands and modes in each USB orientation. The typical Horizontal-Up USB connection (A), found in the majority of host computers, must be tested using an appropriate host computer. A host computer with either Vertical-Front (C) or Vertical-Back (D) USB connection should be used to test one of the vertical USB orientations. If a suitable host computer is not available for testing the Horizontal-Down (B) or the remaining Vertical USB orientation, a high quality USB cable, 12 inches or less, may be used for testing these other orientations. It must be documented that the USB cable does not influence the radiating characteristics and output power of the transmitter.

USB dongles have a rather small footprint; therefore, the SAR scan resolutions should be smaller than those typically used for testing devices with larger form factors, to maintain acceptable uncertainty for the interpolation and extrapolation algorithms used in the 1-g SAR analysis. In addition, when USB cables are used to connect a dongle to the host for SAR testing, the dongle should be supported in several cm of foamed polystyrene (e.g., Styrofoam) to minimize any field perturbation effects due to test device holder used to position the dongle for SAR testing. Dongles with certain spacers, contours or tapering added to the

housing should generally be tested according to the 5 mm test separation requirement required for simple dongles, which is based on overall host platform, device and user operating configurations and exposure conditions of a peripheral device as compared to individual use conditions.

USB dongle transmitters must show compliance at a test separation distance of 5 mm. When the SAR is ≥ 1.2 W/kg, applications for equipment certification require a KDB inquiry for equipment approval.² Preliminary data submitted through KDB inquiries showing compliance at test distances greater than 5 mm are usually inapplicable and insufficient for the FCC to determine if potential exposure concerns may be eliminated to enable the device to satisfy compliance. The information must clearly demonstrate that the likelihood of non-compliance is remote. When the SAR is ≥ 1.2 W/kg, especially for SAR > 1.5 W/kg, certain caution statements, labels and other means to ensure compliance may be required.

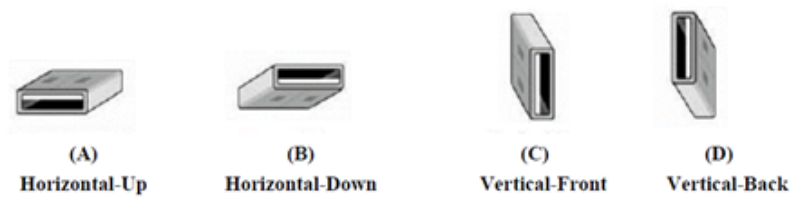


Figure 7.1 – USB Connector Orientations Implemented on Laptop Computers

Note: The data cable used does not influence the radiating characteristics and output power of the transmitter.

8. RF Output Power

8.1. WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

1. Release99 Setup Configuration

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm1
	β_c/β_d	8/15

2. HSDPA Setup Configuration

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

3. HSUPA Setup Configuration

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm1				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	15/15
	β_{ec}	209/225	12/15	30/15	2/15	24/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/15
	β_{hs}	22/15	12/15	30/15	4/15	30/15
	β_{ed}	1309/225	94/75	47/15 47/15	56/75	134/15
	CM (dB)	1.0	3.0	2.0	3.0	1.0
HSDPA Specific Settings	D_{ACK}	8				
	D_{NAK}	8				
	DCQI	8				

HSUPA Specific Settings	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	A _{hs} = β_{hs}/β_c	30/15				
	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9

4. WCDMA Conducted Power Results

Choose the highest output power mode RMC 12.2Kbps for Band V/VI/II at middle channel to test SAR and determine the worst configuration for further high/low channel test.

WCDMA Band II	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	24.00	23.55	23.42	23.41
HSDPA Sub 1	21.50	21.38	21.23	21.22
HSDPA Sub 2	21.50	21.40	21.23	21.22
HSDPA Sub 3	21.50	21.38	21.23	21.23
HSDPA Sub 4	21.50	21.36	21.23	21.24
HSUPA Sub 1	19.50	19.27	18.61	18.94
HSUPA Sub 2	19.50	19.09	19.14	18.48
HSUPA Sub 3	19.00	18.79	18.96	18.63
HSUPA Sub 4	19.50	19.11	19.15	18.47
HSUPA Sub 5	20.00	19.80	19.69	18.83

WCDMA Band IV	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	23.50	23.22	23.11	22.85
HSDPA Sub 1	21.50	21.06	20.90	20.69
HSDPA Sub 2	21.50	21.06	20.93	20.68
HSDPA Sub 3	21.50	21.04	20.93	20.68
HSDPA Sub 4	21.50	21.05	20.92	20.68
HSUPA Sub 1	18.50	18.49	18.33	17.90
HSUPA Sub 2	19.00	18.73	18.32	18.37
HSUPA Sub 3	19.00	18.92	18.61	17.90
HSUPA Sub 4	19.00	18.79	18.32	17.91
HSUPA Sub 5	19.50	19.21	18.49	18.22

WCDMA Band V	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	24.50	24.33	24.27	24.32
HSDPA Sub 1	22.50	21.99	22.10	22.06
HSDPA Sub 2	22.50	21.98	22.09	22.04
HSDPA Sub 3	22.50	21.95	22.12	22.02
HSDPA Sub 4	22.50	21.98	22.09	22.02
HSUPA Sub 1	20.00	19.76	19.77	19.45
HSUPA Sub 2	20.00	19.44	19.49	19.75
HSUPA Sub 3	20.00	19.91	19.43	19.47
HSUPA Sub 4	20.00	19.94	19.47	19.81
HSUPA Sub 5	20.50	20.24	20.20	20.47

8.2. LTE Conducted Power

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 36.521-1 specification. A summary of these configurations are illustrated below:

Test Parameters for Channel Bandwidths				
Ch BW	Downlink Configuration	Mod'n	Uplink Configuration	
	N/A for Max UE output power testing		RB allocation	
			FDD	TDD
1.4MHz		QPSK	1	1
1.4MHz		QPSK	5	5
3MHz		QPSK	1	1
3MHz		QPSK	4	4
5MHz		QPSK	1	1
5MHz		QPSK	8	8
10MHz		QPSK	1	1
10MHz		QPSK	12	12
15MHz		QPSK	1	1
15MHz		QPSK	16	16
20MHz		QPSK	1	1
20MHz		QPSK	18	18

Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, the applicable channel bandwidths are specified in Table 5.4.2.1-1.

Note 2: For E-UTRA bands not applied with Note 2 in Table 6.2.2.3-1:

- The 1 RB allocation shall be tested at RB#0 for low and mid range, RB #max for high range test frequency.
- The RBstart of non-1RB allocation shall be RB #0 for low and mid range, RB# (max +1 - RB allocation) for high range test frequency.

Note 3: For E-UTRA bands applied with Note 2 in Table 6.2.2.3-1:

- If the test channel bandwidth is larger than 4MHz, then the 1 RB allocation shall be tested at both RB #0 and RB #max.
- If the test channel bandwidth is smaller or equal to 4MHz, then the 1 RB allocation shall be tested at RB #0.
- If the test channel bandwidth = (FUL_high - FUL_low) specified by the operating band, then only one frequency range shall be tested and the 1 RB allocation shall be tested at RB #0, RB # $\left\lceil N_{RB}^{UL} / 2 \right\rceil$ and RB #max.
- For non-1RB allocation, test frequency is middle range, and the RBstart shall be RB #0.

2. LTE Conducted Power Results

LTE output list

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	23.50	23.23	23.12	23.00
			1	2	23.50	23.21	23.08	22.99
			1	5	23.50	23.18	23.06	23.01
			3	0	23.50	23.21	23.08	23.09
			3	1	23.50	23.23	23.07	23.13
			3	2	23.50	23.21	23.06	23.13
		16QAM	6	0	22.50	22.24	22.08	22.07
			1	0	22.50	22.44	22.27	22.21
			1	2	22.50	22.47	22.33	22.26
			1	5	22.50	22.41	22.27	22.25
			3	0	22.50	22.17	22.00	21.99
			3	1	22.50	22.14	21.98	22.02
			3	2	22.50	22.13	21.94	22.00
			6	0	21.50	21.27	21.11	20.98
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	23.50	23.24	23.23	23.07
			1	7	23.50	23.26	23.18	23.17
			1	14	23.50	23.24	23.17	23.16
			8	0	22.50	22.24	22.13	22.09
			8	4	22.50	22.22	22.08	22.11
			8	7	22.50	22.23	22.11	22.11
		16QAM	15	0	22.50	22.21	22.11	22.11
			1	0	22.50	22.46	22.03	22.24
			1	7	22.50	22.46	22.04	22.33
			1	14	22.50	22.39	22.00	22.29
			8	0	21.50	21.28	21.16	21.17
			8	4	21.50	21.25	21.13	21.20
			8	7	21.50	21.27	21.11	21.22
			15	0	21.50	21.15	21.03	21.15
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 Band 2	5MHz	QPSK	1	0	23.50	23.33	23.30	22.68
			1	12	23.50	23.31	23.10	22.77
			1	24	23.50	23.35	23.00	22.82
			12	0	22.50	22.24	22.13	22.07
			12	6	22.50	22.26	22.11	22.13
			12	11	22.50	22.25	22.13	22.16
			25	0	22.50	22.27	22.14	22.13
		16QAM	1	0	22.50	22.44	21.90	21.66
			1	12	22.50	22.41	21.84	21.70
			1	24	22.50	22.46	21.77	21.72
			12	0	21.50	21.27	21.15	21.05

			12	6	21.50	21.29	21.12	21.13
			12	11	21.50	21.28	21.14	21.19
			25	0	21.50	21.23	21.23	21.16
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	23.50	23.04	22.71	22.53
			1	24	23.50	22.95	22.72	22.60
			1	49	23.50	22.80	22.61	22.68
			25	0	22.50	22.24	22.09	22.05
			25	12	22.50	22.27	22.15	22.15
			25	24	22.50	22.30	22.16	22.27
			50	0	22.50	22.28	22.12	22.16
		16QAM	1	0	22.00	21.95	21.53	21.68
			1	24	22.00	21.99	21.56	21.76
			1	49	22.00	21.93	21.47	21.82
			25	0	21.50	21.24	21.13	21.02
			25	12	21.50	21.28	21.18	21.11
			25	24	21.50	21.32	21.16	21.29
			50	0	21.50	21.26	21.08	21.18
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	23.00	22.63	22.62	22.43
			1	37	23.00	22.73	22.70	22.56
			1	74	23.00	22.66	22.54	22.62
			36	0	22.50	22.20	22.13	22.06
			36	18	22.50	22.28	22.11	22.08
			36	37	22.50	22.27	22.06	22.23
			75	0	22.50	22.27	22.11	22.14
		16QAM	1	0	22.00	21.95	21.51	21.59
			1	37	22.00	22.00	21.56	21.75
			1	74	22.00	21.93	21.37	21.75
			36	0	21.50	21.30	21.03	21.02
			36	18	21.50	21.31	21.09	21.07
			36	37	21.50	21.30	21.03	21.19
			75	0	21.50	21.27	21.12	21.10
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	23.00	22.67	22.53	22.48
			1	49	23.00	22.79	22.62	22.67
			1	99	23.00	22.65	22.39	22.70
			50	0	22.50	22.21	22.09	22.16
			50	24	22.50	22.28	22.12	22.11
			50	49	22.50	22.22	22.15	22.29
			100	0	22.50	22.21	22.13	22.23
		16QAM	1	0	22.00	21.81	21.61	21.59
			1	49	22.00	21.93	21.72	21.76
			1	99	22.00	21.77	21.49	21.73
			50	0	21.50	21.23	21.15	21.13

			50	24	21.50	21.29	21.16	21.08
			50	49	21.50	21.22	21.16	21.26
			100	0	21.50	21.20	21.13	21.21

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	23.00	22.56	22.22	21.97
			1	2	23.00	22.31	22.23	21.97
			1	5	23.00	22.15	22.20	21.94
			3	0	23.00	22.63	22.68	22.51
			3	1	23.00	22.65	22.65	22.50
			3	2	23.00	22.67	22.64	22.48
			6	0	22.00	21.62	21.76	21.51
		16QAM	1	0	21.50	21.26	21.13	21.20
			1	2	21.50	21.30	21.14	21.24
			1	5	21.50	21.28	21.13	21.16
			3	0	22.00	21.51	21.65	21.44
			3	1	22.00	21.54	21.63	21.42
			3	2	22.00	21.54	21.62	21.40
			6	0	21.00	20.50	20.77	20.54
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	22.50	22.06	22.19	21.94
			1	7	22.50	22.09	22.20	21.95
			1	14	22.50	22.03	22.16	21.88
			8	0	22.00	21.57	21.71	21.41
			8	4	22.00	21.58	21.65	21.42
			8	7	22.00	21.58	21.67	21.41
			15	0	22.00	21.59	21.66	21.42
		16QAM	1	0	21.50	21.30	21.08	21.12
			1	7	21.50	21.28	21.11	21.12
			1	14	21.50	21.20	21.11	21.06
			8	0	21.00	20.59	20.76	20.51
			8	4	21.00	20.61	20.72	20.51
			8	7	21.00	20.61	20.71	20.49
			15	0	21.00	20.50	20.59	20.45
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	22.50	22.18	22.42	22.15
			1	12	22.50	22.11	22.32	22.07
			1	24	22.50	22.18	22.38	22.10
			12	0	22.00	21.57	21.77	21.45
			12	6	22.00	21.60	21.74	21.47
			12	11	22.00	21.59	21.68	21.47
			25	0	22.00	21.62	21.75	21.50
		16QAM	1	0	21.50	21.32	21.45	21.15
			1	12	21.50	21.25	21.38	21.04
			1	24	21.50	21.35	21.46	21.03

			12	0	21.00	20.61	20.81	20.45
			12	6	21.00	20.65	20.74	20.45
			12	11	21.00	20.63	20.72	20.44
			25	0	21.00	20.60	20.78	20.49
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	22.50	22.07	22.18	22.02
			1	24	22.50	22.08	22.24	21.96
			1	49	22.50	22.15	22.21	21.93
			25	0	22.00	21.55	21.76	21.42
			25	12	22.00	21.65	21.75	21.46
			25	24	22.00	21.76	21.66	21.52
			50	0	22.00	21.66	21.74	21.51
		16QAM	1	0	21.50	21.31	21.09	21.16
			1	24	21.50	21.28	21.13	21.11
			1	49	21.50	21.35	21.11	21.10
			25	0	21.00	20.56	20.76	20.44
			25	12	21.00	20.67	20.77	20.46
			25	24	21.00	20.77	20.71	20.52
			50	0	21.00	20.66	20.69	20.50
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	22.50	21.98	22.08	22.01
			1	37	22.50	22.05	22.22	22.03
			1	74	22.50	22.06	22.14	21.84
			36	0	22.00	21.46	21.66	21.54
			36	18	22.00	21.55	21.64	21.47
			36	37	22.00	21.71	21.62	21.48
			75	0	22.00	21.60	21.64	21.49
		16QAM	1	0	21.50	21.29	21.02	21.17
			1	37	21.50	21.35	21.13	21.21
			1	74	21.50	21.38	21.02	21.03
			36	0	21.00	20.56	20.64	20.51
			36	18	21.00	20.63	20.65	20.47
			36	37	21.00	20.75	20.59	20.49
			75	0	21.00	20.61	20.65	20.48
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	22.50	22.01	21.97	22.20
			1	49	22.50	22.13	22.13	22.19
			1	99	22.50	22.12	21.93	22.00
			50	0	22.00	21.44	21.65	21.62
			50	24	22.00	21.67	21.72	21.57
			50	49	22.00	21.81	21.62	21.57
			100	0	22.00	21.67	21.61	21.60
		16QAM	1	0	21.50	21.15	21.16	21.30
			1	49	21.50	21.30	21.28	21.29
			1	99	21.50	21.31	21.09	21.07

			50	0	21.00	20.42	20.68	20.59
			50	24	21.00	20.67	20.75	20.58
			50	49	21.00	20.83	20.66	20.53
			100	0	21.00	20.64	20.61	20.56

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	23.54	24.00	23.36
			1	2	24.00	23.38	23.91	23.32
			1	5	24.00	23.33	23.66	23.34
			3	0	24.50	23.85	24.01	23.93
			3	1	24.50	23.85	23.99	23.96
			3	2	24.50	23.84	23.97	23.98
		16QAM	6	0	23.50	22.96	23.02	22.92
			1	0	23.00	22.26	22.71	22.53
			1	2	23.00	22.32	22.74	22.58
			1	5	23.00	22.25	22.69	22.59
			3	0	23.00	22.85	22.95	22.80
			3	1	23.00	22.84	22.91	22.85
			3	2	23.00	22.83	22.90	22.84
			6	0	22.50	21.95	22.06	21.86
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	23.52	23.40
			1	7	24.00	23.38	23.53	23.44
			1	14	24.00	23.38	23.46	23.42
			8	0	23.00	22.93	22.99	22.89
			8	4	23.00	22.88	23.00	22.90
			8	7	23.00	22.92	23.00	22.89
			15	0	23.00	22.91	23.00	22.93
		16QAM	1	0	23.00	22.62	22.41	22.55
			1	7	23.00	22.56	22.42	22.60
			1	14	23.00	22.58	22.41	22.56
			8	0	22.50	21.95	22.00	21.97
			8	4	22.50	21.90	22.04	21.95
			8	7	22.50	21.97	22.04	21.93
			15	0	22.00	21.85	21.93	21.95
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	23.51	23.61	23.56
			1	12	24.00	23.52	23.61	23.47
			1	24	24.00	23.54	23.63	23.55
			12	0	23.50	22.95	23.03	22.97
			12	6	23.50	22.94	23.02	22.90
			12	11	23.50	22.89	22.98	22.91
			25	0	23.50	22.94	23.03	22.97
		16QAM	1	0	23.00	22.60	22.69	22.46
			1	12	23.00	22.63	22.67	22.41
			1	24	23.00	22.69	22.69	22.43

			12	0	22.50	21.97	22.06	22.01
			12	6	22.50	21.98	22.04	21.91
			12	11	22.50	21.91	22.03	21.91
			25	0	22.50	21.92	22.08	21.98
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	23.32	23.50	23.52
			1	24	24.00	23.45	23.55	23.43
			1	49	24.00	23.46	23.47	23.37
			25	0	23.50	22.97	23.03	23.03
			25	12	23.50	23.01	23.01	22.92
			25	24	23.50	22.94	23.04	22.84
			50	0	23.50	23.03	23.08	23.01
		16QAM	1	0	23.00	22.57	22.41	22.64
			1	24	23.00	22.67	22.42	22.59
			1	49	23.00	22.69	22.36	22.52
			25	0	22.50	22.01	22.08	22.03
			25	12	22.50	22.04	22.06	21.91
			25	24	22.50	21.96	22.10	21.86
			50	0	22.50	21.97	22.09	21.97

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	22.50	22.25	22.14	22.23
			1	12	22.50	21.95	22.16	22.24
			1	24	22.50	21.82	22.18	22.25
			12	0	22.00	21.18	21.53	21.62
			12	6	22.00	21.17	21.52	21.58
			12	11	22.00	21.25	21.50	21.59
			25	0	22.00	21.24	21.51	21.61
		16QAM	1	0	21.50	20.86	21.22	21.11
			1	12	21.50	20.93	21.16	21.11
			1	24	21.50	20.96	21.18	21.11
			12	0	21.00	20.21	20.54	20.64
			12	6	21.00	20.24	20.52	20.60
			12	11	21.00	20.30	20.55	20.62
			25	0	21.00	20.21	20.59	20.64
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	22.50	21.61	21.86	22.06
			1	24	22.50	21.68	21.95	22.12
			1	49	22.50	21.67	21.89	22.12
			25	0	22.00	21.15	21.46	21.65
			25	12	22.00	21.24	21.52	21.60
			25	24	22.00	21.29	21.58	21.65
			50	0	22.00	21.23	21.57	21.67
		16QAM	1	0	21.50	20.84	20.76	21.19
			1	24	21.50	20.91	20.93	21.26
			1	49	21.50	20.92	20.91	21.24

			25	0	21.00	20.19	20.52	20.63
			25	12	21.00	20.28	20.56	20.60
			25	24	21.00	20.31	20.64	20.65
			50	0	21.00	20.25	20.55	20.61
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 Band 7	15MHz	QPSK	1	0	22.50	21.55	21.80	21.92
			1	37	22.50	21.67	21.90	22.09
			1	74	22.50	21.67	21.83	22.04
			36	0	22.00	21.08	21.40	21.54
			36	18	22.00	21.20	21.47	21.56
			36	37	22.00	21.25	21.50	21.58
			75	0	22.00	21.15	21.48	21.64
		16QAM	1	0	21.50	20.85	20.73	21.10
			1	37	21.50	21.00	20.90	21.27
			1	74	21.50	20.98	20.85	21.23
			36	0	21.00	20.12	20.40	20.53
			36	18	21.00	20.25	20.45	20.56
			36	37	21.00	20.27	20.51	20.62
			75	0	21.00	20.16	20.47	20.58
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	22.50	21.52	21.60	22.02
			1	49	22.50	21.69	21.84	22.21
			1	99	22.50	21.75	21.74	22.19
			50	0	22.00	21.04	21.46	21.72
			50	24	22.00	21.24	21.56	21.64
			50	49	22.00	21.23	21.64	21.62
			100	0	22.00	21.13	21.57	21.68
		16QAM	1	0	21.50	20.71	20.80	21.06
			1	49	21.50	20.89	21.15	21.28
			1	99	21.50	20.91	21.06	21.22
			50	0	21.00	20.01	20.49	20.66
			50	24	21.00	20.25	20.58	20.61
			50	49	21.00	20.23	20.67	20.62
			100	0	21.00	20.09	20.57	20.66

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	24.00	23.32	23.82	23.40
			1	2	24.00	23.33	23.40	23.39
			1	5	24.00	23.28	23.38	23.39
			3	0	24.50	23.72	23.91	24.04
			3	1	24.50	23.75	23.86	24.10
			3	2	24.50	23.73	23.88	24.06
			6	0	23.50	22.84	22.92	23.01
		16QAM	1	0	23.00	22.19	22.59	22.67
			1	2	23.00	22.22	22.63	22.68
			1	5	23.00	22.21	22.57	22.65

			3	0	23.00	22.71	22.84	22.94
			3	1	23.00	22.73	22.80	22.99
			3	2	23.00	22.70	22.81	22.94
			6	0	22.00	21.82	21.96	21.89
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	24.00	23.26	23.36	23.56
			1	7	24.00	23.31	23.40	23.57
			1	14	24.00	23.26	23.39	23.51
			8	0	23.00	22.82	22.86	22.96
			8	4	23.00	22.81	22.88	22.97
			8	7	23.00	22.79	22.86	22.94
			15	0	23.00	22.82	22.86	22.97
		16QAM	1	0	23.00	22.53	22.27	22.75
			1	7	23.00	22.49	22.29	22.73
			1	14	23.00	22.46	22.30	22.62
			8	0	22.50	21.82	21.89	22.05
			8	4	22.50	21.83	21.95	22.06
			8	7	22.50	21.82	21.90	22.05
			15	0	22.50	21.75	21.78	22.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	24.00	23.39	23.49	23.64
			1	12	24.00	23.37	23.53	23.64
			1	24	24.00	23.46	23.61	23.62
			12	0	23.50	22.87	22.92	23.03
			12	6	23.50	22.82	22.94	22.96
			12	11	23.50	22.86	22.90	23.01
			25	0	23.50	22.89	22.92	23.04
		16QAM	1	0	23.00	22.54	22.55	22.55
			1	12	23.00	22.50	22.57	22.51
			1	24	23.00	22.61	22.65	22.50
			12	0	22.50	21.88	21.94	22.05
			12	6	22.50	21.86	21.93	21.98
			12	11	22.50	21.89	21.91	22.07
			25	0	22.50	21.84	21.95	22.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	24.00	23.26	23.30	23.41
			1	24	24.00	23.35	23.43	23.55
			1	49	24.00	23.42	23.46	23.57
			25	0	23.50	22.77	22.88	23.02
			25	12	23.50	22.89	22.92	22.98
			25	24	23.50	22.93	22.84	23.03
			50	0	23.50	22.87	22.88	23.05
		16QAM	1	0	23.00	22.51	22.17	22.54
			1	24	23.00	22.57	22.33	22.69
			1	49	23.00	22.63	22.38	22.70

			25	0	22.00	21.75	21.90	22.00
			25	12	22.00	21.91	21.94	21.95
			25	24	22.00	21.94	21.85	22.00
			50	0	22.50	21.84	21.84	22.01

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	24.00	23.83	23.56	23.57
			1	12	24.00	23.48	23.53	23.58
			1	24	24.00	23.57	23.63	23.65
			12	0	23.50	22.87	22.95	23.03
			12	6	23.50	22.85	22.92	22.97
			12	11	23.50	22.87	22.85	23.01
			25	0	23.50	22.89	22.90	23.05
		16QAM	1	0	23.00	22.46	22.47	22.66
			1	12	23.00	22.49	22.42	22.61
			1	24	23.00	22.62	22.57	22.73
			12	0	22.50	21.85	21.96	22.06
			12	6	22.50	21.87	21.92	22.01
			12	11	22.50	21.85	21.85	22.04
			25	0	22.50	21.92	21.91	22.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	24.00	23.26	23.33	23.44
			1	24	24.00	23.43	23.48	23.47
			1	49	24.00	23.47	23.46	23.61
			25	0	23.50	22.90	22.91	23.01
			25	12	23.50	22.92	22.93	22.94
			25	24	23.50	22.84	22.89	23.04
			50	0	23.50	22.90	22.92	23.03
		16QAM	1	0	23.00	22.52	22.25	22.58
			1	24	23.00	22.64	22.36	22.61
			1	49	23.00	22.68	22.42	22.74
			25	0	22.50	21.93	21.96	21.99
			25	12	22.50	21.95	21.93	21.93
			25	24	22.50	21.87	21.94	22.01
			50	0	22.50	21.87	21.91	22.01

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26047/1850.7	26365/1882.5	26683/1914.3
LTE Band 25	1.4MHz	QPSK	1	0	23.50	23.19	22.61	22.53
			1	2	23.50	23.16	22.60	22.52
			1	5	23.50	23.14	22.56	22.53
			3	0	23.50	23.25	23.02	23.13
			3	1	23.50	23.27	23.00	23.16
			3	2	23.50	23.29	23.00	23.16
			6	0	22.50	22.21	22.05	22.11
		16QAM	1	0	22.00	21.86	21.46	21.72

			1	2	22.00	21.93	21.47	21.79
			1	5	22.00	21.88	21.40	21.76
			3	0	22.50	22.14	21.90	22.07
			3	1	22.50	22.15	21.87	22.05
			3	2	22.50	22.16	21.87	22.03
			6	0	21.50	21.13	21.04	20.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26055/1851.5	26365/1882.5	26675/1913.5
LTE Band 25	3MHz	QPSK	1	0	23.00	22.68	22.68	22.64
			1	7	23.00	22.75	22.66	22.72
			1	14	23.00	22.66	22.55	22.65
			8	0	22.50	22.22	22.09	22.15
			8	4	22.50	22.19	22.03	22.13
			8	7	22.50	22.20	22.05	22.08
			15	0	22.50	22.18	22.05	22.17
		16QAM	1	0	22.00	21.91	21.49	21.82
			1	7	22.00	21.93	21.50	21.84
			1	14	22.00	21.83	21.47	21.81
			8	0	21.50	21.25	21.10	21.26
			8	4	21.50	21.24	21.11	21.23
			8	7	21.50	21.24	21.07	21.18
			15	0	21.50	21.09	20.98	21.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26065/1852.5	26365/1882.5	26665/1912.5
LTE Band 25	5MHz	QPSK	1	0	23.00	22.80	22.77	22.77
			1	12	23.00	22.80	22.74	22.81
			1	24	23.00	22.82	22.69	22.81
			12	0	22.50	22.21	22.11	22.20
			12	6	22.50	22.24	22.10	22.18
			12	11	22.50	22.21	22.06	22.00
			25	0	22.50	22.23	22.12	22.14
		16QAM	1	0	22.00	21.94	21.83	21.67
			1	12	22.00	21.93	21.78	21.66
			1	24	22.00	21.98	21.76	21.68
			12	0	21.50	21.21	21.15	21.26
			12	6	21.50	21.27	21.10	21.18
			12	11	21.50	21.25	21.10	20.97
			25	0	21.50	21.21	21.17	21.20
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910
LTE Band 25	10MHz	QPSK	1	0	23.00	22.70	22.66	22.53
			1	24	23.00	22.77	22.70	22.68
			1	49	23.00	22.73	22.60	22.68
			25	0	22.50	22.22	22.06	22.02
			25	12	22.50	22.23	22.12	22.13
			25	24	22.50	22.26	22.15	21.93
			50	0	22.50	22.23	22.14	22.01
		16QAM	1	0	22.00	21.90	21.49	21.69

			1	24	22.00	21.96	21.52	21.84
			1	49	22.00	21.89	21.43	21.83
			25	0	21.50	21.23	21.05	21.01
			25	12	21.50	21.26	21.17	21.14
			25	24	21.50	21.30	21.16	20.93
			50	0	21.50	21.22	21.08	20.96
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26115/1857.5	26365/1882.5	26615/1907.5
LTE Band 25	15MHz	QPSK	1	0	23.00	22.62	22.60	22.48
			1	37	23.00	22.73	22.68	22.65
			1	74	23.00	22.66	22.54	22.64
			36	0	22.50	22.24	22.09	22.04
			36	18	22.50	22.26	22.10	22.11
			36	37	22.50	22.22	21.99	22.01
			75	0	22.50	22.26	22.12	22.02
		16QAM	1	0	22.00	21.92	21.49	21.67
			1	37	22.00	21.97	21.52	21.81
			1	74	22.00	21.96	21.33	21.81
			36	0	21.50	21.28	21.00	21.01
			36	18	21.50	21.30	21.02	21.10
			36	37	21.50	21.28	20.97	21.02
			75	0	21.50	21.24	21.08	20.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
LTE Band 25	20MHz	QPSK	1	0	23.00	22.65	22.51	22.48
			1	49	23.00	22.79	22.57	22.70
			1	99	23.00	22.73	22.39	22.72
			50	0	22.50	22.22	22.09	22.13
			50	24	22.50	22.29	22.15	22.18
			50	49	22.50	22.23	22.09	22.11
			100	0	22.50	22.23	22.08	22.13
		16QAM	1	0	22.00	21.80	21.61	21.62
			1	49	22.00	21.92	21.71	21.80
			1	99	22.00	21.86	21.50	21.74
			50	0	21.50	21.20	21.11	21.10
			50	24	21.50	21.27	21.17	21.15
			50	49	21.50	21.23	21.12	21.10
			100	0	21.50	21.18	21.07	21.11

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26865/831.5	27033/848.3
LTE Band 26	1.4MHz	QPSK	1	0	24.00	23.57	23.46	23.32
			1	2	24.00	23.36	23.46	23.30
			1	5	24.00	23.32	23.47	23.28
			3	0	24.00	23.98	23.91	23.85
			3	1	24.00	23.98	23.92	23.82
			3	2	24.00	23.97	23.91	23.86
			6	0	23.00	22.92	22.98	22.86

		16QAM	1	0	23.00	22.56	22.38	22.47
			1	2	23.00	22.61	22.40	22.54
			1	5	23.00	22.56	22.37	22.47
			3	0	23.00	22.84	22.89	22.81
			3	1	23.00	22.88	22.89	22.78
			3	2	23.00	22.85	22.88	22.79
			6	0	22.00	21.81	21.98	21.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/815.5	26865/831.5	27025/847.5
LTE Band 26	3MHz	QPSK	1	0	23.50	23.32	23.44	23.32
			1	7	23.50	23.40	23.48	23.36
			1	14	23.50	23.33	23.47	23.40
			8	0	23.00	22.90	22.97	22.82
			8	4	23.00	22.88	22.94	22.85
			8	7	23.00	22.87	23.00	22.84
			15	0	23.00	22.86	22.99	22.87
		16QAM	1	0	23.00	22.58	22.36	22.50
			1	7	23.00	22.59	22.41	22.56
			1	14	23.00	22.52	22.40	22.53
			8	0	22.50	21.93	22.01	21.89
			8	4	22.50	21.91	22.01	21.90
			8	7	22.50	21.90	22.05	21.94
			15	0	22.00	21.79	21.93	21.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26865/831.5	27015/846.5
LTE Band 26	5MHz	QPSK	1	0	24.00	23.50	23.60	23.53
			1	12	24.00	23.43	23.62	23.46
			1	24	24.00	23.44	23.66	23.54
			12	0	23.50	22.87	23.06	22.95
			12	6	23.50	22.88	22.99	22.86
			12	11	23.50	22.90	22.96	22.85
			25	0	23.50	22.91	23.01	22.96
		16QAM	1	0	23.00	22.56	22.64	22.46
			1	12	23.00	22.55	22.65	22.40
			1	24	23.00	22.61	22.72	22.42
			12	0	22.50	21.89	22.07	21.98
			12	6	22.50	21.91	21.99	21.84
			12	11	22.50	21.95	22.01	21.85
			25	0	22.50	21.88	22.06	21.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26740/819	26865/831.5	26990/844
LTE Band 26	10MHz	QPSK	1	0	24.00	23.33	23.36	23.43
			1	24	24.00	23.40	23.53	23.41
			1	49	24.00	23.33	23.52	23.35
			25	0	23.50	22.88	23.06	23.03
			25	12	23.50	22.92	23.00	22.91
			25	24	23.50	23.03	23.00	22.81
			50	0	23.50	22.96	23.05	23.00

		16QAM	1	0	23.00	22.54	22.26	22.59
			1	24	23.00	22.62	22.40	22.57
			1	49	23.00	22.54	22.40	22.49
			25	0	22.50	21.91	22.07	22.02
			25	12	22.50	21.92	22.06	21.91
			25	24	22.50	22.06	22.04	21.79
			50	0	22.50	21.98	22.01	21.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26765/821.5	26865/831.5	26965/841.5
LTE Band 26	15MHz	QPSK	1	0	24.00	23.26	23.28	23.45
			1	37	24.00	23.36	23.51	23.50
			1	74	24.00	23.33	23.49	23.27
			36	0	23.00	22.81	22.94	22.91
			36	18	23.00	22.84	22.96	22.90
			36	37	23.00	22.87	22.97	22.77
			75	0	23.00	22.87	22.96	22.89
		16QAM	1	0	23.00	22.54	22.23	22.62
			1	37	23.00	22.66	22.41	22.62
			1	74	23.00	22.64	22.36	22.45
			36	0	22.00	21.85	21.93	21.91
			36	18	22.00	21.89	21.97	21.94
			36	37	22.00	21.94	21.87	21.76
			75	0	22.00	21.88	21.95	21.82

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		27685/2307.5	27710/2310	27735/2312.5
LTE Band 30	5MHz	QPSK	1	0	22.50	22.07	22.03	22.12
			1	13	22.50	22.28	22.15	22.25
			1	24	22.50	22.21	22.16	22.23
			12	0	22.00	21.80	21.49	21.54
			12	6	22.00	21.80	21.51	21.56
			12	13	22.00	21.57	21.50	21.57
			25	0	22.00	21.48	21.54	21.58
		16QAM	1	0	22.00	21.41	21.26	21.77
			1	13	22.00	21.43	21.35	21.85
			1	24	22.00	21.44	21.33	21.81
			12	0	21.00	20.74	20.81	20.81
			12	6	21.00	20.70	20.83	20.83
			12	13	21.00	20.70	20.83	20.83
			25	0	21.00	20.74	20.92	20.86
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	27710/2310	/
LTE Band 30	10MHz	QPSK	1	0	22.50	/	22.27	/
			1	25	22.50	/	22.13	/
			1	49	22.50	/	22.37	/
			25	0	22.00	/	21.56	/
			25	13	22.00	/	21.54	/
			25	25	22.00	/	21.60	/

			50	0	22.00	/	21.62	/
		16QAM	1	0	22.00	/	21.80	/
			1	25	22.00	/	21.74	/
			1	49	22.00	/	21.90	/
			25	0	21.00	/	20.87	/
			25	13	21.00	/	20.85	/
			25	25	21.00	/	20.90	/
			50	0	21.00	/	20.90	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	24.00	22.18	22.81	23.79
			1	12	24.00	22.24	22.66	23.80
			1	24	24.00	22.28	22.66	23.73
			12	0	23.00	21.19	21.68	22.73
			12	6	23.00	21.19	21.63	22.72
			12	11	23.00	21.20	21.64	22.77
			25	0	23.00	21.18	21.65	22.76
		16QAM	1	0	23.00	21.45	21.80	22.52
			1	12	23.00	21.19	21.70	22.52
			1	24	23.00	21.20	21.71	22.94
			12	0	22.00	20.11	20.65	21.77
			12	6	22.00	20.11	20.61	21.74
			12	11	22.00	20.12	20.62	21.77
			25	0	22.00	20.29	20.65	21.78
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700/2501	40620/2593	41540/2685
LTE Band 41	10MHz	QPSK	1	0	24.00	22.18	22.63	23.76
			1	24	24.00	22.26	22.70	23.87
			1	49	24.00	22.28	22.68	23.81
			25	0	23.00	21.20	21.68	22.75
			25	12	23.00	21.23	21.67	22.76
			25	24	23.00	21.32	21.71	22.75
			50	0	23.00	21.28	21.71	22.80
		16QAM	1	0	23.00	21.15	21.50	22.77
			1	24	23.00	21.51	21.56	22.89
			1	49	23.00	21.29	21.45	22.92
			25	0	22.00	20.19	20.71	21.75
			25	12	22.00	20.19	20.66	21.81
			25	24	22.00	20.27	20.75	21.83
			50	0	22.00	20.19	20.68	21.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39725/2503.5	40620/2593	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	24.00	22.20	22.57	23.73
			1	37	24.00	22.20	22.77	23.86
			1	74	24.00	22.14	22.62	23.83
			36	0	23.00	21.13	21.63	22.66
			36	18	23.00	21.17	21.65	22.72
			36	37	23.00	21.29	21.68	22.70

		16QAM	75	0	23.00	21.23	21.67	22.75
			1	0	23.00	21.41	21.46	22.70
			1	37	23.00	21.16	21.60	22.63
			1	74	23.00	21.13	21.41	22.80
			36	0	22.00	20.15	20.62	21.67
			36	18	22.00	20.19	20.69	21.76
			36	37	22.00	20.32	20.67	21.74
			75	0	22.00	20.24	20.62	21.77
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
LTE Band 41	20MHz	QPSK	1	0	22/23/24	21.94	22.52	23.61
			1	49	24.00	22.35	22.76	23.81
			1	99	24.00	22.23	22.68	23.76
			50	0	23.00	21.13	21.67	22.72
			50	24	23.00	21.32	21.73	22.79
			50	49	23.00	21.39	21.70	22.70
			100	0	23.00	21.26	21.70	22.75
		16QAM	1	0	23.00	21.21	21.38	22.81
			1	49	23.00	21.41	21.80	22.76
			1	99	23.00	21.46	21.47	22.71
			50	0	22.00	20.12	20.67	21.71
			50	24	22.00	20.26	20.71	21.76
			50	49	22.00	20.40	20.70	21.69
			100	0	22.00	20.26	20.70	21.71

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	23.00	22.63	22.55	22.11
			1	2	23.00	22.59	22.29	22.09
			1	5	23.00	22.63	22.18	22.07
			3	0	23.00	22.55	22.58	22.64
			3	1	23.00	22.57	22.54	22.64
			3	2	23.00	22.57	22.52	22.62
			6	0	22.00	21.62	21.60	21.67
		16QAM	1	0	22.00	21.52	20.99	21.31
			1	2	22.00	21.46	21.02	21.36
			1	5	22.00	21.39	20.96	21.28
			3	0	22.00	21.51	21.48	21.59
			3	1	22.00	21.51	21.45	21.60
			3	2	22.00	21.50	21.42	21.58
			6	0	21.00	20.64	20.59	20.70
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	22.50	22.10	22.09	22.10
			1	7	22.50	22.10	22.09	22.21
			1	14	22.50	22.09	22.03	22.17
			8	0	22.00	21.60	21.57	21.62
			8	4	22.00	21.57	21.49	21.63

			8	7	22.00	21.64	21.48	21.63
			15	0	22.00	21.64	21.51	21.62
		16QAM	1	0	21.50	21.28	20.96	21.28
			1	7	21.50	21.27	20.95	21.35
			1	14	21.50	21.25	20.90	21.28
			8	0	21.00	20.62	20.60	20.69
			8	4	21.00	20.62	20.55	20.70
			8	7	21.00	20.67	20.53	20.70
			15	0	21.00	20.56	20.43	20.64
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	22.50	22.14	22.20	22.20
			1	12	22.50	22.20	22.16	22.25
			1	24	22.50	22.21	22.14	22.28
			12	0	22.00	21.60	21.57	21.64
			12	6	22.00	21.64	21.58	21.64
			12	11	22.00	21.68	21.50	21.64
			25	0	22.00	21.66	21.54	21.65
		16QAM	1	0	21.50	21.28	21.26	21.17
			1	12	21.50	21.33	21.21	21.17
			1	24	21.50	21.40	21.18	21.18
			12	0	21.00	20.62	20.60	20.61
			12	6	21.00	20.69	20.56	20.61
			12	11	21.00	20.70	20.52	20.63
			25	0	21.00	20.64	20.58	20.67
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	22.50	22.03	22.14	22.01
			1	24	22.50	22.13	22.12	22.13
			1	49	22.50	22.11	22.02	22.15
			25	0	22.00	21.62	21.61	21.61
			25	12	22.00	21.68	21.53	21.60
			25	24	22.00	21.79	21.57	21.69
			50	0	22.00	21.69	21.63	21.69
		16QAM	1	0	21.50	21.24	20.97	21.15
			1	24	21.50	21.35	20.96	21.29
			1	49	21.50	21.31	20.85	21.29
			25	0	21.00	20.62	20.64	20.59
			25	12	21.00	20.67	20.57	20.63
			25	24	21.00	20.82	20.60	20.70
			50	0	21.00	20.68	20.60	20.64
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	22.50	21.99	22.12	21.91
			1	37	22.50	22.09	22.10	22.06
			1	74	22.50	22.03	21.87	22.11
			36	0	22.00	21.52	21.61	21.55
			36	18	22.00	21.64	21.52	21.56

			36	37	22.00	21.73	21.47	21.62
			75	0	22.00	21.66	21.60	21.61
		16QAM	1	0	21.50	21.26	21.00	21.08
			1	37	21.50	21.40	20.95	21.23
			1	74	21.50	21.33	20.74	21.24
			36	0	21.00	20.60	20.57	20.55
			36	18	21.00	20.71	20.47	20.57
			36	37	21.00	20.77	20.45	20.65
			75	0	21.00	20.66	20.53	20.58
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	22.50	22.03	21.93	21.92
			1	49	22.50	22.17	22.00	22.16
			1	99	22.50	22.07	21.76	22.16
			50	0	22.00	21.49	21.68	21.61
			50	24	22.00	21.70	21.62	21.59
			50	49	22.00	21.83	21.60	21.64
			100	0	22.00	21.71	21.63	21.61
		16QAM	1	0	21.50	21.13	21.08	20.99
			1	49	21.50	21.32	21.12	21.23
			1	99	21.50	21.32	20.88	21.21
			50	0	21.00	20.47	20.70	20.58
			50	24	21.00	20.70	20.65	20.53
			50	49	21.00	20.86	20.62	20.62
			100	0	21.00	20.67	20.63	20.58

8.3. Wi-Fi & BT Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	15.00	15.00
	6	2437	15.00	14.74
	11	2462	15.00	14.25
802.11g	1	2412	16.00	15.70
	6	2437	16.00	14.50
	11	2462	16.00	14.27
802.11n HT20	1	2412	15.00	14.43
	6	2437	15.00	14.63
	11	2462	15.00	14.19
802.11n HT40	3	2422	15.50	15.21
	6	2437	15.50	14.08
	9	2452	15.50	14.90

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	9.50	7.67
	40	5200	9.50	9.19
	48	5240	9.50	9.32
802.11n HT20	36	5180	8.50	7.91
	40	5200	8.50	7.90
	48	5240	8.50	8.27
802.11n HT40	38	5190	8.50	7.88
	46	5230	8.50	8.45
802.11ac VHT20	36	5180	10.00	9.10
	40	5200	10.00	9.63
	48	5240	10.00	9.84
802.11ac VHT40	38	5190	10.00	9.69
	46	5230	10.00	9.81
802.11ac VHT80	42	5210	10.00	9.77

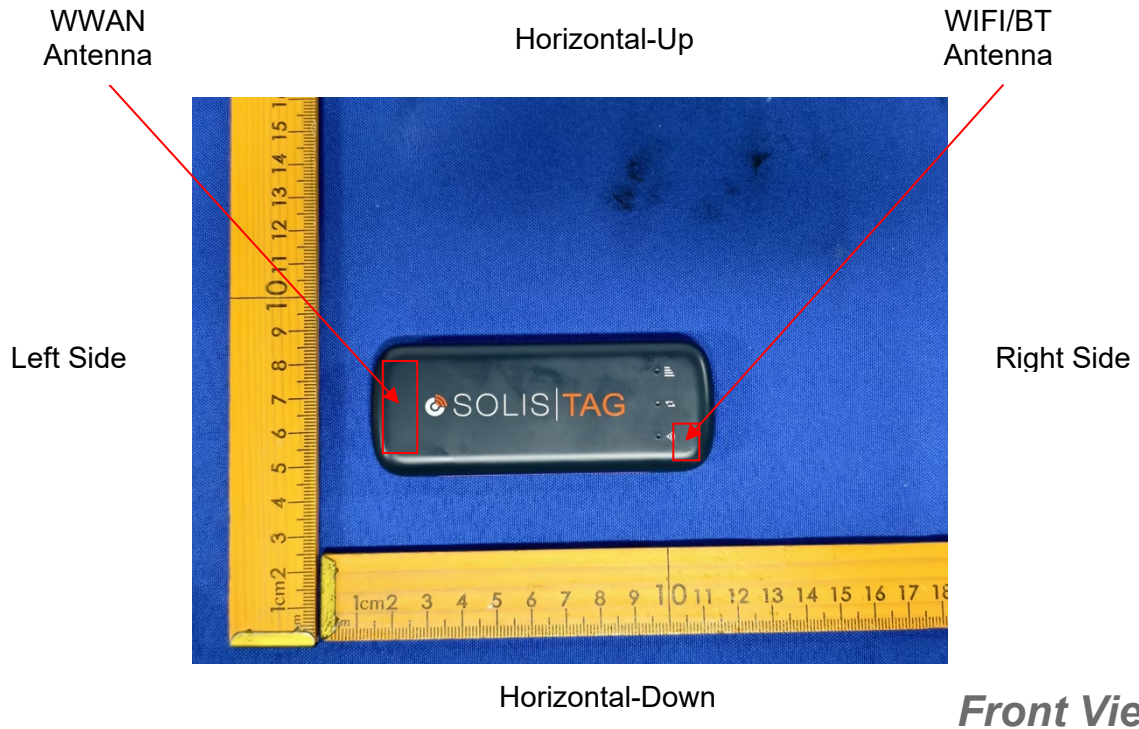
Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	9.00	7.61
	157	5785	9.00	8.85
	165	5825	9.00	8.75
802.11n HT20	149	5745	9.50	8.94
	157	5785	9.50	8.87
	165	5825	9.50	9.21

802.11n HT40	151	5755	10.00	9.51
	159	5795	10.00	9.04
802.11ac VHT20	149	5745	9.50	8.97
	157	5785	9.50	9.14
	165	5825	9.50	9.01
802.11ac VHT40	151	5755	9.50	9.07
	159	5795	9.50	9.40
802.11ac VHT80	155	5775	9.50	9.24

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	3.00	2.36	2.56	2.61
	39CH	3.00	2.12	1.73	1.75
	78CH	3.00	1.99	2.18	2.20

Mode	Channel	Tune-up (dBm)	Output Power (dBm)
BLE1M	CH00	-3.00	-3.32
	CH19	-3.00	-3.09
	CH39	-3.00	-3.96
BLE2M	CH00	-3.00	-3.71
	CH19	-3.00	-3.48
	CH39	-4.00	-4.37

9. Antenna Location



Antenna information:

Distance of The Antenna to the EUT surface and edge (mm)						
Antennas	Horizontal-Up	Horizontal-Down	Left Side	Right Side	Vertical-Front	Vertical-Back
WLAN/BT	24	5	88	5	5	5
WWAN	5	5	5	83	5	5

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

10. 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:

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

- $f(\text{GHz})$ 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	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	3.00	2.00	5	2.480	0.6	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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \leq 7.5$ W/kg for test separation distances ≤ 50 mm, 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	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/kg)
Bluetooth	Body	3.00	2.00	5	2.48	7.5	0.084
Bluetooth	Hotspot	3.00	2.00	5	2.48	7.5	0.084

NOTE: Estimated SAR calculation for Bluetooth.

11. SAR Measurement Results

< WCDMA Band 2>

Test Position of Body with 5mm	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						
Vertical-Back	9400/1880	RMC12.2K	0.282	0.137	1.00	23.42	24.00	0.322	2025/12/22	
Vertical-Front	9400/1880	RMC12.2K	0.447	0.220	-4.96	23.42	24.00	0.511	2025/12/22	#1
Horizontal-Up	9400/1880	RMC12.2K	0.144	0.071	2.77	23.42	24.00	0.165	2025/12/22	
Horizontal-Down	9400/1880	RMC12.2K	0.115	0.056	-3.11	23.42	24.00	0.131	2025/12/22	

< WCDMA Band 4>

Test Position of Body with 5mm	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						
Vertical-Back	1413/1732.6	RMC12.2K	0.282	0.138	-2.93	23.11	23.50	0.308	2025/12/21	
Vertical-Front	1413/1732.6	RMC12.2K	0.455	0.225	-0.55	23.11	23.50	0.498	2025/12/21	#2
Horizontal-Up	1413/1732.6	RMC12.2K	0.147	0.069	1.37	23.11	23.50	0.161	2025/12/21	
Horizontal-Down	1413/1732.6	RMC12.2K	0.123	0.058	0.37	23.11	23.50	0.135	2025/12/21	

< WCDMA Band 5>

Test Position of Body with 5mm	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						
Vertical-Back	4182/836.4	RMC12.2K	0.180	0.090	-2.03	24.27	24.50	0.190	2025/12/20	
Vertical-Front	4182/836.4	RMC12.2K	0.292	0.149	-0.56	24.27	24.50	0.308	2025/12/20	#3
Horizontal-Up	4182/836.4	RMC12.2K	0.096	0.047	0.39	24.27	24.50	0.101	2025/12/20	
Horizontal-Down	4182/836.4	RMC12.2K	0.078	0.039	-3.62	24.27	24.50	0.082	2025/12/20	

< LTE Band 2>

Test Position of Body with 5mm	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										
Vertical-Back	18900/1880	20M QPSK(1,49)	0.282	0.149	0.46	22.62	23.00	0.308	2025/12/22	
Vertical-Front	18900/1880	20M QPSK(1,49)	0.466	0.247	2.92	22.62	23.00	0.509	2025/12/22	#7
Horizontal-Up	18900/1880	20M QPSK(1,49)	0.153	0.079	-0.58	22.62	23.00	0.167	2025/12/22	

Horizontal-Down	18900/1880	20M QPSK(1,49)	0.125	0.064	-0.33	22.62	23.00	0.136	2025/12/22	
50%RB										
Vertical-Back	18900/1880	20M QPSK(50,49)	0.142	0.083	0.97	22.15	22.50	0.154	2025/12/22	
Vertical-Front	18900/1880	20M QPSK(50,49)	0.270	0.131	0.76	22.15	22.50	0.293	2025/12/22	
Horizontal-Up	18900/1880	20M QPSK(50,49)	0.091	0.045	-4.60	22.15	22.50	0.099	2025/12/22	
Horizontal-Down	18900/1880	20M QPSK(50,49)	0.074	0.037	-4.38	22.15	22.50	0.080	2025/12/22	

< LTE Band 4>

Test Position of Body with 5mm	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										
Vertical-Back	20175/1732.5	20M QPSK(1,0)	0.312	0.156	0.86	21.97	22.50	0.352	2025/12/21	
Vertical-Front	20175/1732.5	20M QPSK(1,0)	0.489	0.257	3.50	21.97	22.50	0.552	2025/12/21	#8
Horizontal-Up	20175/1732.5	20M QPSK(1,0)	0.150	0.079	3.95	21.97	22.50	0.169	2025/12/21	
Horizontal-Down	20175/1732.5	20M QPSK(1,0)	0.128	0.067	0.73	21.97	22.50	0.145	2025/12/21	
50%RB										
Vertical-Back	20175/1732.5	20M QPSK(50,49)	0.186	0.093	-0.01	21.62	22.00	0.203	2025/12/21	
Vertical-Front	20175/1732.5	20M QPSK(50,49)	0.262	0.143	4.78	21.62	22.00	0.286	2025/12/21	
Horizontal-Up	20175/1732.5	20M QPSK(50,49)	0.088	0.047	-2.35	21.62	22.00	0.096	2025/12/21	
Horizontal-Down	20175/1732.5	20M QPSK(50,49)	0.071	0.037	3.50	21.62	22.00	0.077	2025/12/21	

< LTE Band 5>

Test Position of Body with 5mm	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										
Vertical-Back	20525/836.5	10M QPSK(1,24)	0.204	0.103	-0.26	23.55	24.00	0.226	2025/12/20	
Vertical-Front	20525/836.5	10M QPSK(1,24)	0.322	0.171	1.32	23.55	24.00	0.357	2025/12/20	#9
Horizontal-Up	20525/836.5	10M QPSK(1,24)	0.105	0.055	-3.21	23.55	24.00	0.116	2025/12/20	
Horizontal-Down	20525/836.5	10M QPSK(1,24)	0.090	0.048	0.15	23.55	24.00	0.100	2025/12/20	
50%RB										
Vertical-Back	20525/836.5	10M QPSK(25,24)	0.117	0.054	-0.93	23.04	23.50	0.130	2025/12/20	
Vertical-Front	20525/836.5	10M QPSK(25,24)	0.170	0.094	0.75	23.04	23.50	0.189	2025/12/20	
Horizontal-Up	20525/836.5	10M QPSK(25,24)	0.059	0.032	1.34	23.04	23.50	0.066	2025/12/20	
Horizontal-Down	20525/836.5	10M	0.048	0.027	-3.50	23.04	23.50	0.053	2025/12/20	

		QPSK(25,24)								
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< LTE Band 7>

Test Position of Body with 5mm	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										
Vertical-Back	21100/2535	20M QPSK(1,49)	0.360	0.176	-1.49	21.84	22.50	0.419	2025/12/25	
Vertical-Front	21100/2535	20M QPSK(1,49)	0.552	0.281	2.28	21.84	22.50	0.643	2025/12/25	#10
Horizontal-Up	21100/2535	20M QPSK(1,49)	0.177	0.086	-3.56	21.84	22.50	0.206	2025/12/25	
Horizontal-Down	21100/2535	20M QPSK(1,49)	0.148	0.075	-2.99	21.84	22.50	0.172	2025/12/25	
50%RB										
Vertical-Back	21100/2535	20M QPSK(50,0)	0.204	0.099	4.98	21.46	22.00	0.231	2025/12/25	
Vertical-Front	21100/2535	20M QPSK(50,0)	0.314	0.166	1.86	21.46	22.00	0.356	2025/12/25	
Horizontal-Up	21100/2535	20M QPSK(50,0)	0.093	0.044	-3.59	21.46	22.00	0.105	2025/12/25	
Horizontal-Down	21100/2535	20M QPSK(50,0)	0.079	0.043	0.92	21.46	22.00	0.089	2025/12/25	

< LTE Band 12>

Test Position of Body with 5mm	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										
Vertical-Back	23095/707.5	10M QPSK(1,49)	0.210	0.107	0.55	23.46	24.00	0.238	2025/12/19	
Vertical-Front	23095/707.5	10M QPSK(1,49)	0.340	0.178	2.09	23.46	24.00	0.385	2025/12/19	#11
Horizontal-Up	23095/707.5	10M QPSK(1,49)	0.111	0.055	-0.73	23.46	24.00	0.126	2025/12/19	
Horizontal-Down	23095/707.5	10M QPSK(1,49)	0.090	0.045	1.77	23.46	24.00	0.102	2025/12/19	
50%RB										
Vertical-Back	23095/707.5	10M QPSK(25,0)	0.106	0.057	0.03	22.84	23.50	0.123	2025/12/19	
Vertical-Front	23095/707.5	10M QPSK(25,0)	0.201	0.092	3.83	22.84	23.50	0.234	2025/12/19	
Horizontal-Up	23095/707.5	10M QPSK(25,0)	0.057	0.033	4.76	22.84	23.50	0.066	2025/12/19	
Horizontal-Down	23095/707.5	10M QPSK(25,0)	0.048	0.027	-4.27	22.84	23.50	0.056	2025/12/19	

< LTE Band 17>

Test Position of Body with 5mm	Test channel /Freq	Test Mode	SAR Value (W/kg)		Power Drift (+5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g	Date	Plot
			1g	10g						

								(W/Kg)		
1RB										
Vertical-Back	23790/710	10M QPSK(1,49)	0.228	0.115	-2.59	23.46	24.00	0.258	2025/12/19	
Vertical-Front	23790/710	10M QPSK(1,49)	0.342	0.179	1.52	23.46	24.00	0.387	2025/12/19	#12
Horizontal-Up	23790/710	10M QPSK(1,49)	0.108	0.055	0.59	23.46	24.00	0.122	2025/12/19	
Horizontal-Down	23790/710	10M QPSK(1,49)	0.093	0.046	1.70	23.46	24.00	0.105	2025/12/19	
50%RB										
Vertical-Back	23790/710	10M QPSK(25,24)	0.118	0.063	0.62	22.89	23.50	0.136	2025/12/19	
Vertical-Front	23790/710	10M QPSK(25,24)	0.185	0.103	0.69	22.89	23.50	0.213	2025/12/19	
Horizontal-Up	23790/710	10M QPSK(25,24)	0.057	0.029	-1.66	22.89	23.50	0.066	2025/12/19	
Horizontal-Down	23790/710	10M QPSK(25,24)	0.054	0.026	-0.40	22.89	23.50	0.062	2025/12/19	

< LTE Band 25>

Test Position of Body with 5mm	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										
Vertical-Back	26365/1882.5	20M QPSK(1,49)	0.312	0.159	2.36	22.57	23.00	0.344	2025/12/22	
Vertical-Front	26365/1882.5	20M QPSK(1,49)	0.511	0.266	-2.35	22.57	23.00	0.564	2025/12/22	#13
Horizontal-Up	26365/1882.5	20M QPSK(1,49)	0.162	0.080	3.01	22.57	23.00	0.179	2025/12/22	
Horizontal-Down	26365/1882.5	20M QPSK(1,49)	0.130	0.068	-3.35	22.57	23.00	0.144	2025/12/22	
50%RB										
Vertical-Back	26365/1882.5	20M QPSK(50,24)	0.169	0.094	0.62	22.15	22.50	0.183	2025/12/22	
Vertical-Front	26365/1882.5	20M QPSK(50,24)	0.305	0.137	3.33	22.15	22.50	0.331	2025/12/22	
Horizontal-Up	26365/1882.5	20M QPSK(50,24)	0.086	0.044	3.76	22.15	22.50	0.093	2025/12/22	
Horizontal-Down	26365/1882.5	20M QPSK(50,24)	0.066	0.039	-2.64	22.15	22.50	0.072	2025/12/22	

< LTE Band 26>

Test Position of Body with 5mm	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										
Vertical-Back	26865/831.5	15M QPSK(1,37)	0.216	0.105	2.98	23.51	24.00	0.242	2025/12/20	
Vertical-Front	26865/831.5	15M QPSK(1,37)	0.317	0.157	-0.73	23.51	24.00	0.355	2025/12/20	#14
Horizontal-Up	26865/831.5	15M QPSK(1,37)	0.108	0.053	-0.72	23.51	24.00	0.121	2025/12/20	

Horizontal-Down	26865/831.5	15M QPSK(1,37)	0.083	0.040	3.68	23.51	24.00	0.093	2025/12/20	
50%RB										
Vertical-Back	26865/831.5	15M QPSK(36,37)	0.117	0.053	-0.04	22.97	23.00	0.118	2025/12/20	
Vertical-Front	26865/831.5	15M QPSK(36,37)	0.179	0.093	-3.58	22.97	23.00	0.180	2025/12/20	
Horizontal-Up	26865/831.5	15M QPSK(36,37)	0.058	0.028	-3.99	22.97	23.00	0.058	2025/12/20	
Horizontal-Down	26865/831.5	15M QPSK(36,37)	0.048	0.024	-0.92	22.97	23.00	0.048	2025/12/20	

< LTE Band 30 >

Test Position of Body with 5mm	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										
Vertical-Back	27710/2310	10M QPSK(1,49)	0.300	0.146	0.93	22.37	22.50	0.309	2025/12/23	
Vertical-Front	27710/2310	10M QPSK(1,49)	0.461	0.234	1.37	22.37	22.50	0.475	2025/12/23	#15
Horizontal-Up	27710/2310	10M QPSK(1,49)	0.153	0.078	-0.63	22.37	22.50	0.158	2025/12/23	
Horizontal-Down	27710/2310	10M QPSK(1,49)	0.123	0.060	0.25	22.37	22.50	0.127	2025/12/23	
50%RB										
Vertical-Back	27710/2310	10M QPSK(25,24)	0.176	0.082	3.43	21.60	22.00	0.193	2025/12/23	
Vertical-Front	27710/2310	10M QPSK(25,24)	0.262	0.124	-3.59	21.60	22.00	0.287	2025/12/23	
Horizontal-Up	27710/2310	10M QPSK(25,24)	0.079	0.043	-3.79	21.60	22.00	0.087	2025/12/23	
Horizontal-Down	27710/2310	10M QPSK(25,24)	0.070	0.032	3.01	21.60	22.00	0.077	2025/12/23	

< LTE Band 41 >

Test Position of Body with 5mm	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										
Vertical-Back	40620/2593	20M QPSK(1,49)	0.348	0.192	1.55	22.76	24.00	0.463	2025/12/25	
Vertical-Front	40620/2593	20M QPSK(1,49)	0.568	0.317	3.24	22.76	24.00	0.756	2025/12/25	#16
Horizontal-Up	40620/2593	20M QPSK(1,49)	0.177	0.098	-0.99	22.76	24.00	0.235	2025/12/25	
Horizontal-Down	40620/2593	20M QPSK(1,49)	0.153	0.085	2.18	22.76	24.00	0.204	2025/12/25	
50%RB										
Vertical-Back	40620/2593	20M QPSK(50,24)	0.200	0.107	-4.20	21.73	23.00	0.268	2025/12/25	

Vertical-Front	40620/2593	20M QPSK(50,24)	0.305	0.169	3.39	21.73	23.00	0.409	2025/12/25	
Horizontal-Up	40620/2593	20M QPSK(50,24)	0.096	0.053	3.07	21.73	23.00	0.129	2025/12/25	
Horizontal-Down	40620/2593	20M QPSK(50,24)	0.082	0.046	0.67	21.73	23.00	0.110	2025/12/25	

< LTE Band 66 >

Test Position of Body with 5mm	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										
Vertical-Back	132322/1745	20M QPSK(1,49)	0.282	0.137	2.11	22.00	22.50	0.316	2025/12/21	
Vertical-Front	132322/1745	20M QPSK(1,49)	0.455	0.233	4.74	22.00	22.50	0.511	2025/12/21	#17
Horizontal-Up	132322/1745	20M QPSK(1,49)	0.150	0.077	1.60	22.00	22.50	0.168	2025/12/21	
Horizontal-Down	132322/1745	20M QPSK(1,49)	0.123	0.062	1.76	22.00	22.50	0.138	2025/12/21	
50%RB										
Vertical-Back	132322/1745	20M QPSK(50,49)	0.162	0.082	-1.20	21.60	22.00	0.178	2025/12/21	
Vertical-Front	132322/1745	20M QPSK(50,49)	0.260	0.122	0.52	21.60	22.00	0.285	2025/12/21	
Horizontal-Up	132322/1745	20M QPSK(50,49)	0.089	0.044	-3.88	21.60	22.00	0.098	2025/12/21	
Horizontal-Down	132322/1745	20M QPSK(50,49)	0.072	0.032	-3.01	21.60	22.00	0.079	2025/12/21	

< WiFi 2.4G >

Test Position of Body with 5mm	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						
Vertical-Back	1/2412	802.11b	0.288	0.143	2.73	15.00	15.00	0.288	2025/12/24	
Vertical-Front	1/2412	802.11b	0.476	0.242	2.49	15.00	15.00	0.476	2025/12/24	#6
Vertical-Front	1/2412	802.11g	0.442	0.218	1.54	15.70	16.00	0.474	2025/12/24	
Horizontal-Up	1/2412	802.11b	0.150	0.074	-0.07	15.00	15.00	0.150	2025/12/24	
Horizontal-Down	1/2412	802.11b	0.245	0.120	-1.41	15.00	15.00	0.245	2025/12/24	

< WiFi 5.2G >

Test Position of Body with 5mm	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						
Vertical-Back	48/5240	802.11ac VHT20	0.366	0.215	0.36	9.84	10.00	0.380	2025/12/26	
Vertical-Front	48/5240	802.11ac VHT20	0.603	0.366	2.65	9.84	10.00	0.626	2025/12/26	#4
Horizontal-Up	48/5240	802.11ac VHT20	0.189	0.115	-1.22	9.84	10.00	0.196	2025/12/26	

Horizontal-Down	48/5240	802.11ac VHT20	0.310	0.186	1.45	9.84	10.00	0.322	2025/12/26	
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< WiFi 5.8G>

Test Position of Body with 5mm	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						
Vertical-Back	151/5755	802.11n HT40	0.384	0.192	1.30	9.51	10.00	0.430	2025/12/30	
Vertical-Front	151/5755	802.11n HT40	0.591	0.308	0.28	9.51	10.00	0.662	2025/12/30	#5
Horizontal-Up	151/5755	802.11n HT40	0.189	0.098	-0.30	9.51	10.00	0.212	2025/12/30	
Horizontal-Down	151/5755	802.11n HT40	0.305	0.154	1.33	9.51	10.00	0.341	2025/12/30	

12. Simultaneous Transmission Analysis

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

1) Scalar SAR summation $< 1.6\text{W/kg}$.

2) SPLSR = $\frac{(SAR_1 + SAR_2)^{1.5}}{d}$ / (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 $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

No.	Simultaneous Tx	Body-worn	Hotspot
1	WWAN+WLAN	Yes	Yes
2	WWAN+Bluetooth	Yes	Yes

Note : WiFi and Bluetooth use the same antenna and cannot be transmitted at the same time.

Exposure Position		WWAN Band	NII/DTS/DSS	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Vertical-Back	0.463	0.430	0.893
	Vertical-Front	0.756	0.662	1.418
	Horizontal-Up	0.235	0.212	0.447
	Horizontal-Down	0.204	0.341	0.545

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

Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

Appendix B. System Check Plots

Table of contents
#1 System Performance Check - 750MHz
#2 System Performance Check - 850MHz
#3 System Performance Check - 1800MHz
#4 System Performance Check - 1900MHz
#5 System Performance Check - 2300MHz
#6 System Performance Check - 2450MHz
#7 System Performance Check - 2600MHz
#8 System Performance Check - 5200MHz
#9 System Performance Check - 5800MHz

#1

Date of measurement: 19/12/2025

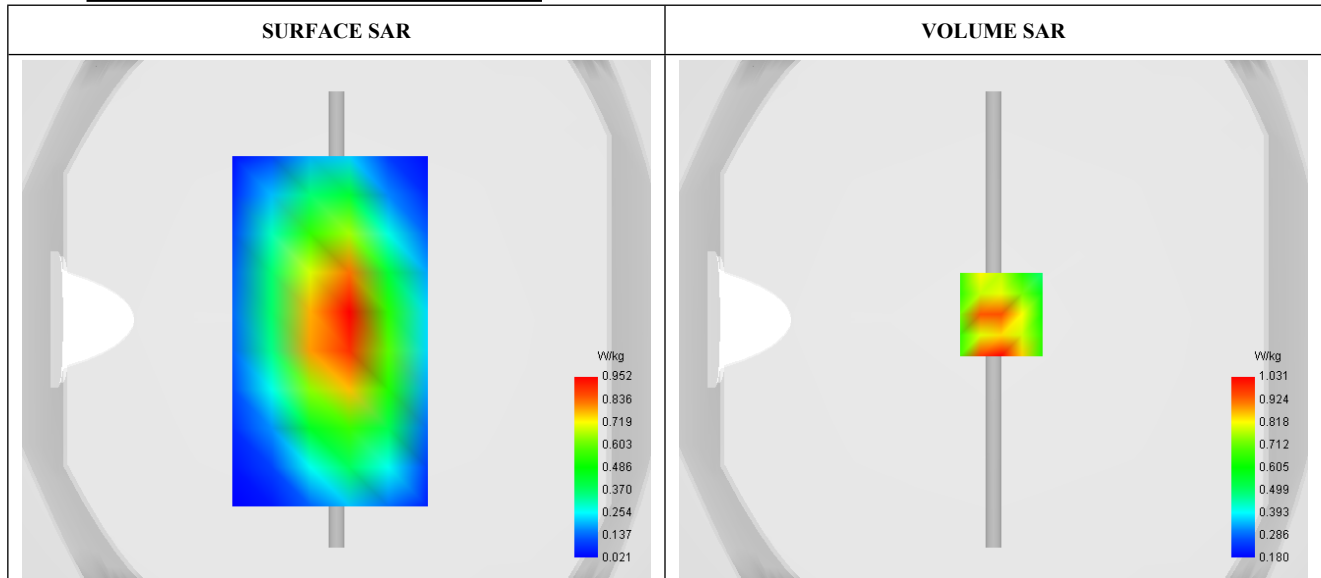
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.65
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	CW750
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	750.000
Relative permittivity (real part)	41.900
Relative permittivity (imaginary part)	21.360
Conductivity (S/m)	0.890

C. SAR Surface and Volume



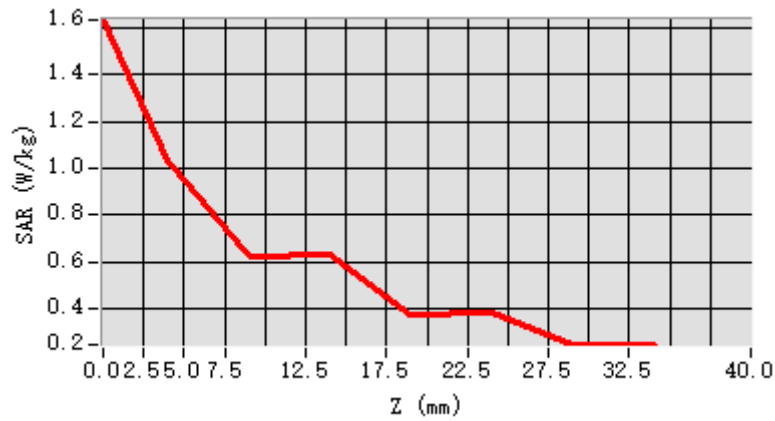
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 1.54 W/kg

D. SAR 1g & 10g

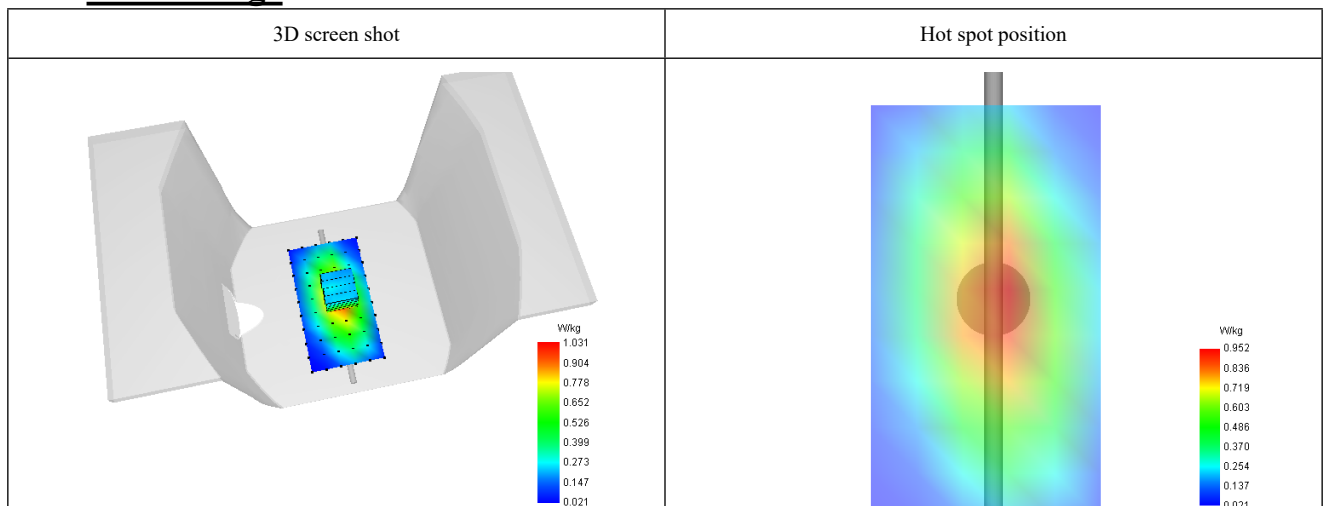
SAR 10g (W/Kg)	0.621
SAR 1g (W/Kg)	0.930
Variation (%)	0.380
Horizontal validation criteria: minimum distance (mm)	35.777088
Vertical validation criteria: SAR ratio M2/M1 (%)	60.135790

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.636	1.031	0.620	0.629	0.375	0.386	0.245



F. 3D Image



#2

Date of measurement: 20/12/2025

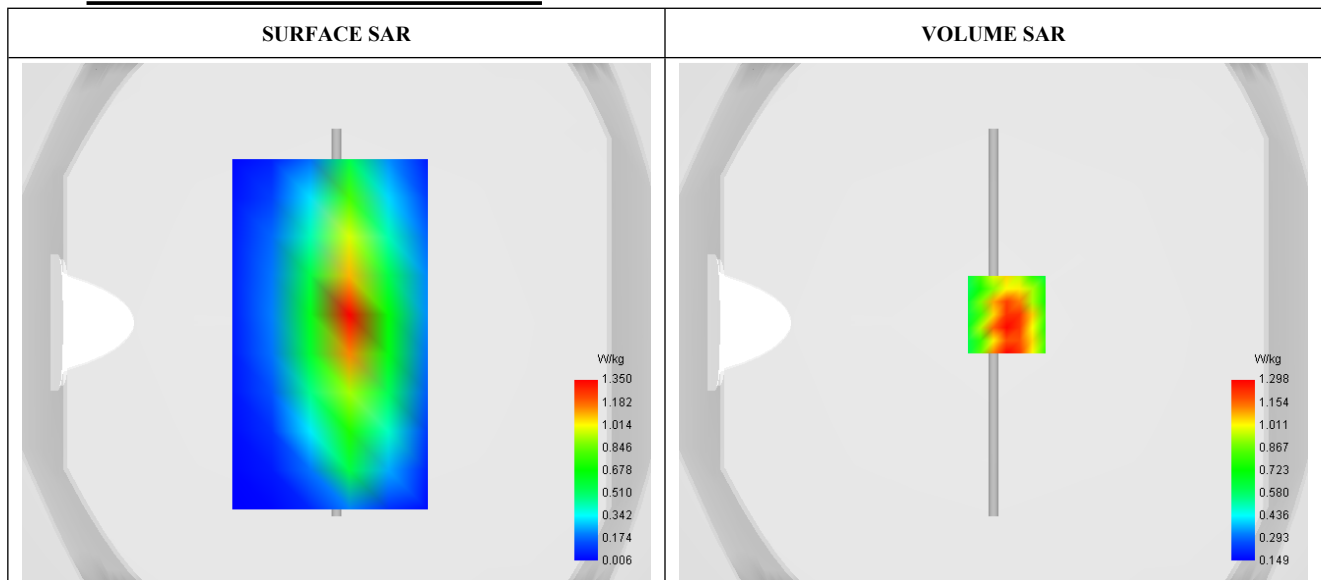
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.66
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	835.000
Relative permittivity (real part)	40.940
Relative permittivity (imaginary part)	19.300
Conductivity (S/m)	0.895

C. SAR Surface and Volume



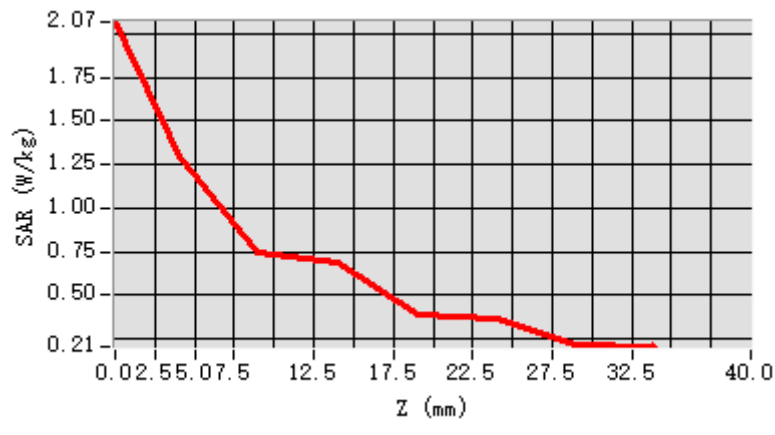
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.90 W/kg

D. SAR 1g & 10g

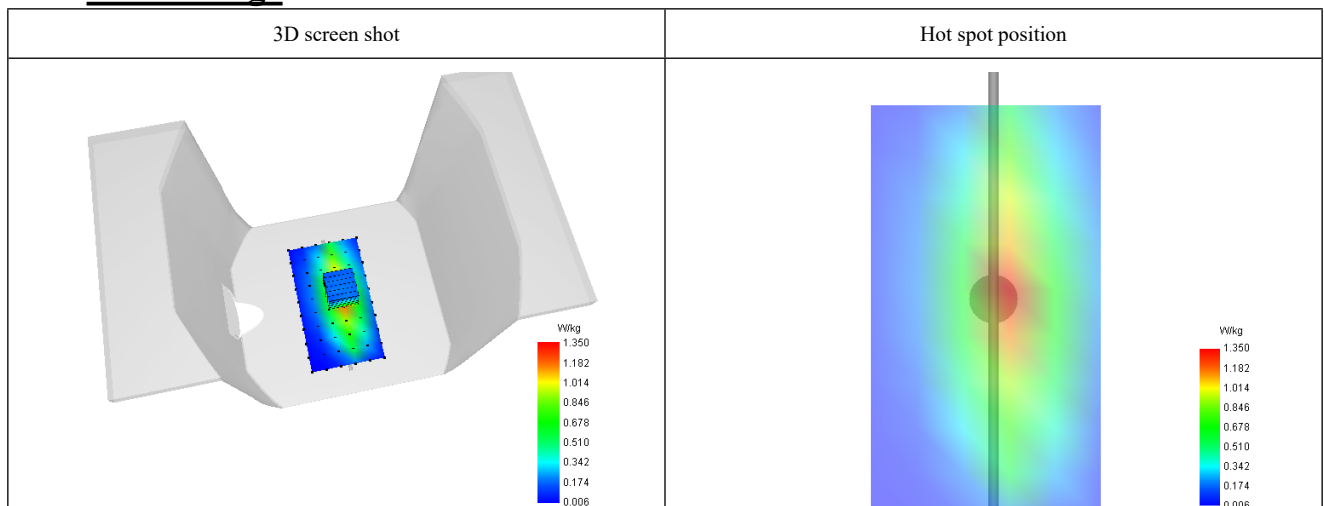
SAR 10g (W/Kg)	0.612
SAR 1g (W/Kg)	1.011
Variation (%)	2.200
Horizontal validation criteria: minimum distance (mm)	15.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.716049

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.064	1.296	0.748	0.687	0.392	0.367	0.223



F. 3D Image



#3

Date of measurement: 21/12/2025

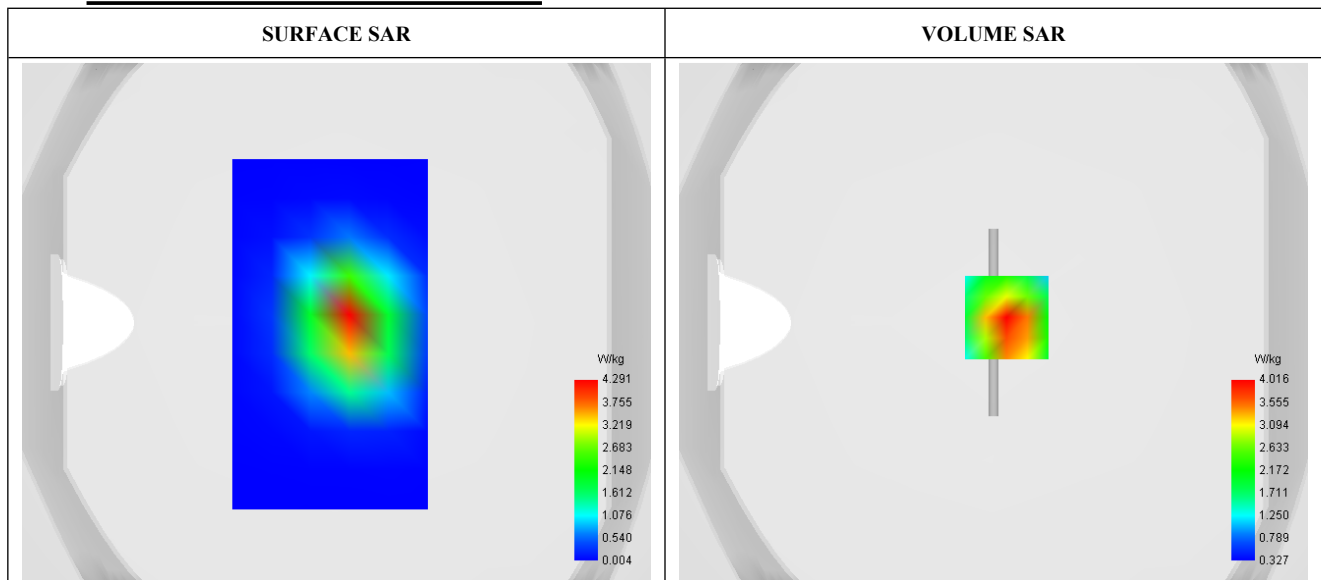
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.05
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
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1800.000
Relative permittivity (real part)	41.520
Relative permittivity (imaginary part)	14.000
Conductivity (S/m)	1.400

C. SAR Surface and Volume



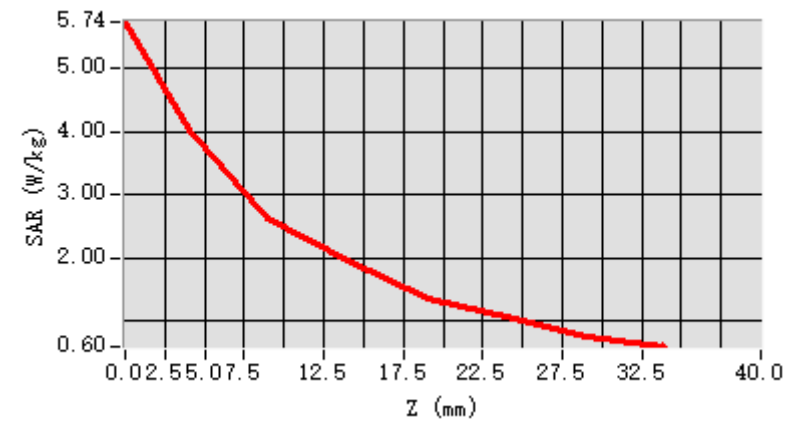
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 5.78 W/kg

D. SAR 1g & 10g

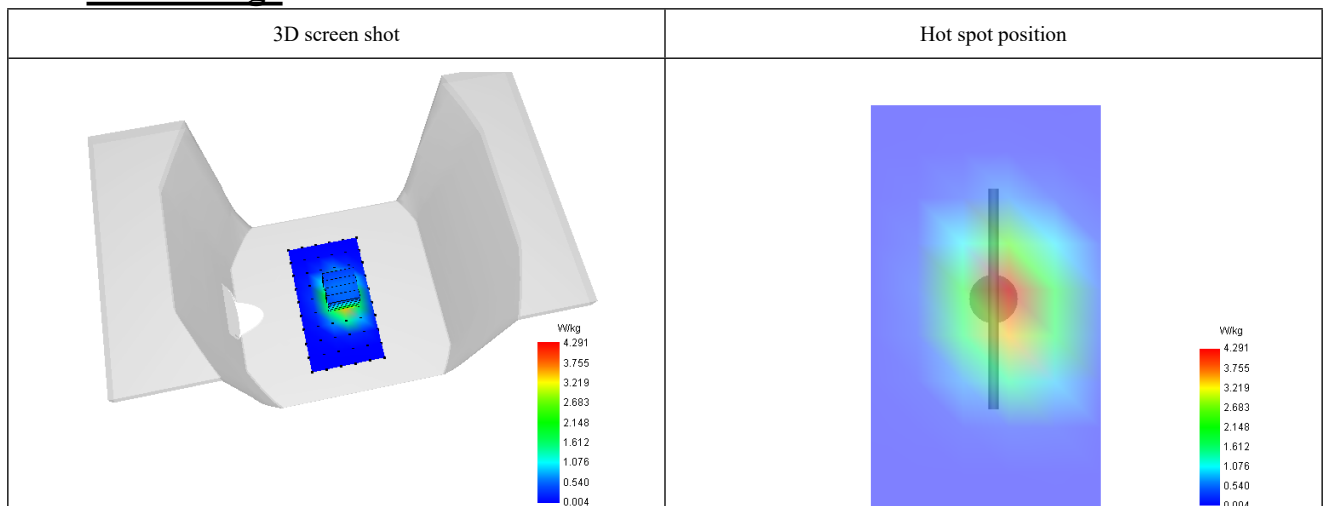
SAR 10g (W/Kg)	2.025
SAR 1g (W/Kg)	3.832
Variation (%)	0.180
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.811753

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.739	4.016	2.643	1.958	1.374	1.074	0.775



F. 3D Image



#4

Date of measurement: 22/12/2025

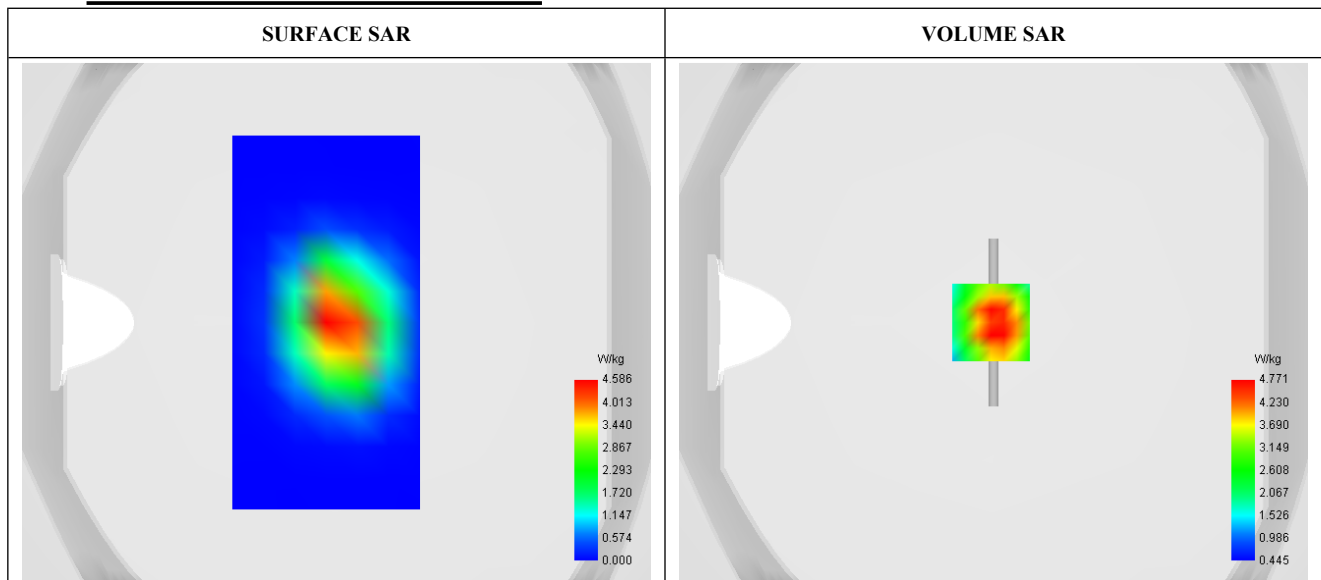
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.05
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	CW1900
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	41.270
Relative permittivity (imaginary part)	12.500
Conductivity (S/m)	1.319

C. SAR Surface and Volume



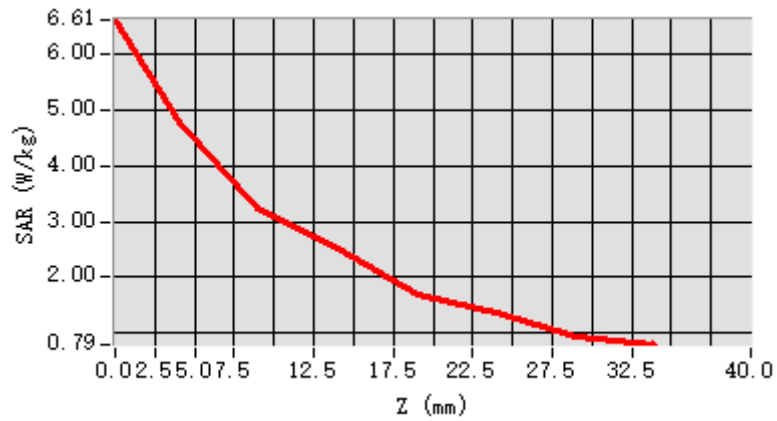
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 6.50 W/kg

D. SAR 1g & 10g

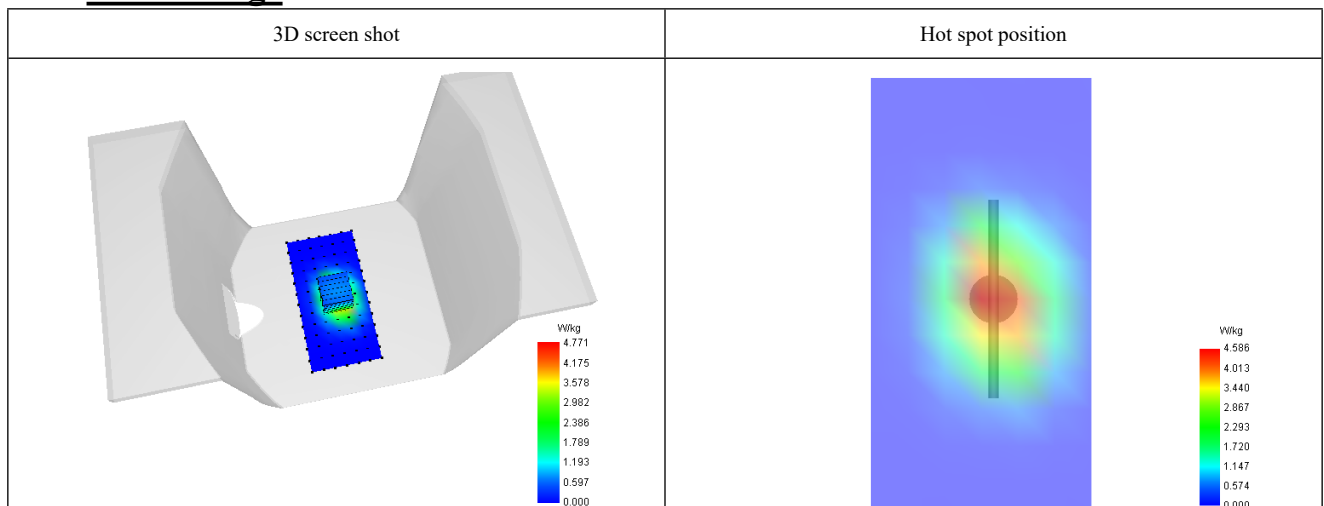
SAR 10g (W/Kg)	2.153
SAR 1g (W/Kg)	4.154
Variation (%)	1.300
Horizontal validation criteria: minimum distance (mm)	14.141203
Vertical validation criteria: SAR ratio M2/M1 (%)	67.966457

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.612	4.770	3.242	2.521	1.694	1.380	0.943



F. 3D Image



#5

Date of measurement: 23/12/2025

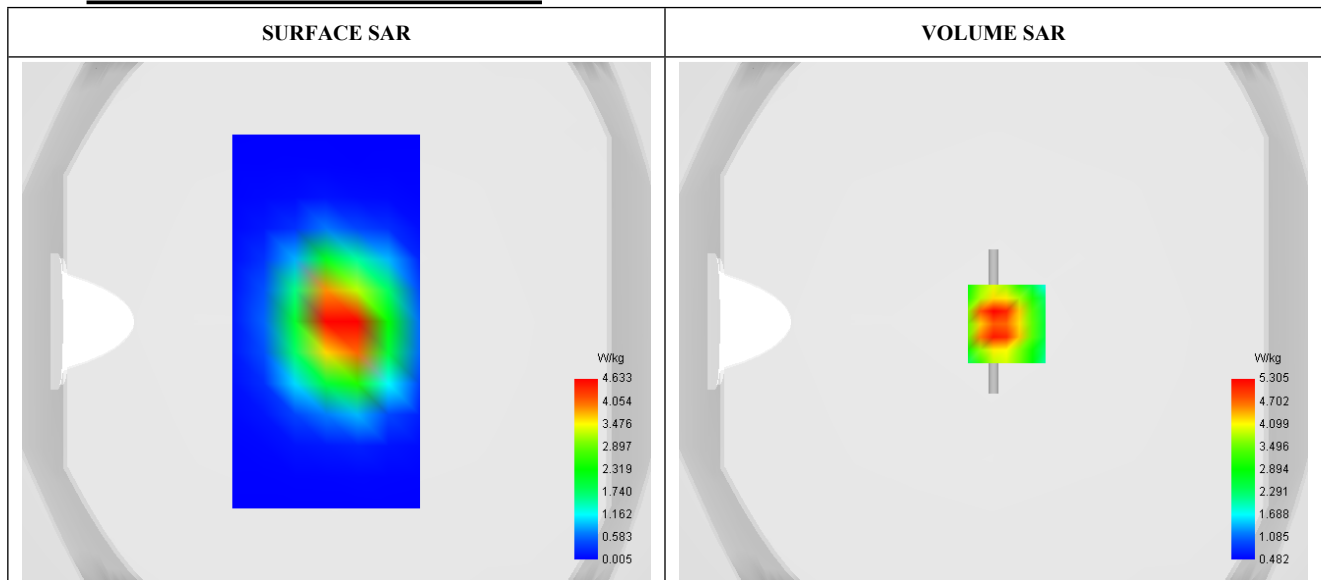
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.55
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	CW2300
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	2300.000
Relative permittivity (real part)	39.500
Relative permittivity (imaginary part)	13.070
Conductivity (S/m)	1.670

C. SAR Surface and Volume



Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 7.47 W/kg

D. SAR 1g & 10g

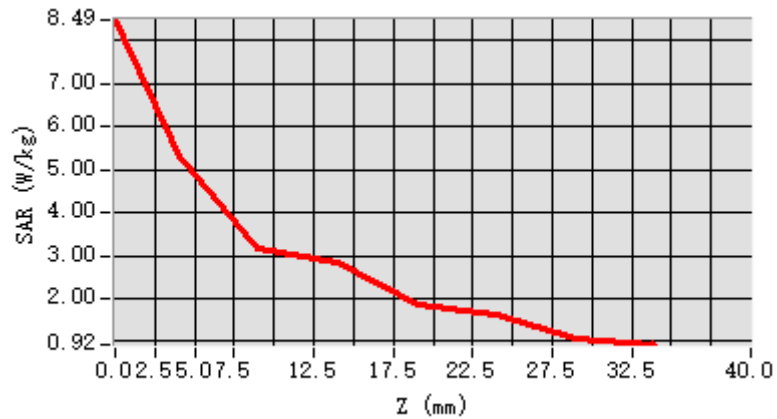
SAR 10g (W/Kg)	2.223
SAR 1g (W/Kg)	4.723
Variation (%)	-1.350
Horizontal validation criteria: minimum distance (mm)	18.027756

Vertical validation criteria: SAR ratio M2/M1 (%)

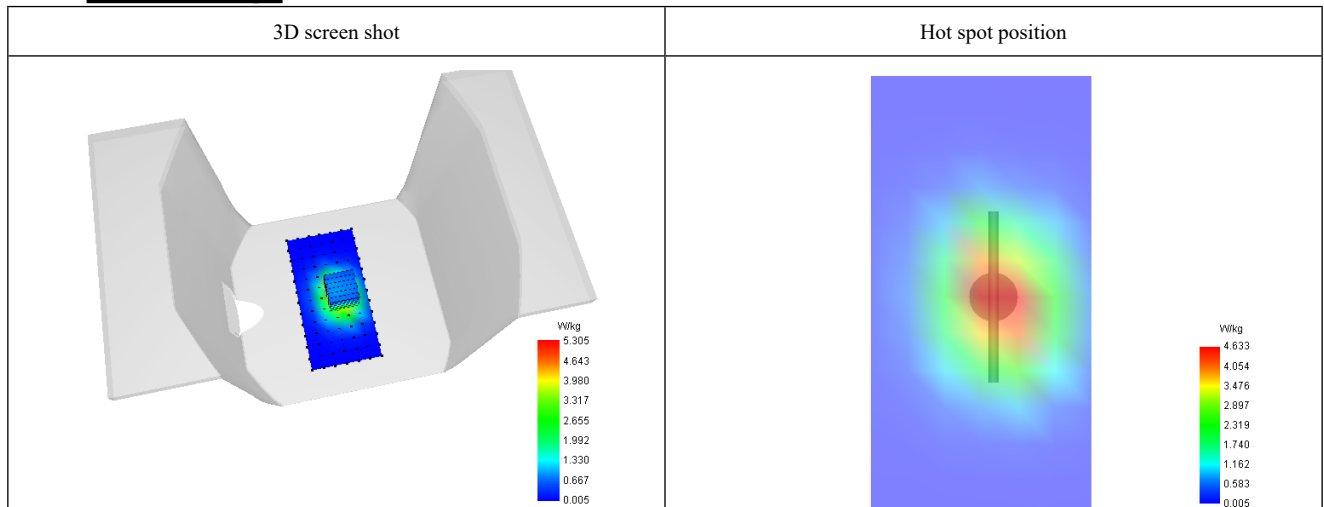
59.434495

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.485	5.305	3.153	2.838	1.858	1.624	1.074



F. 3D Image



#6

Date of measurement: 24/12/2025

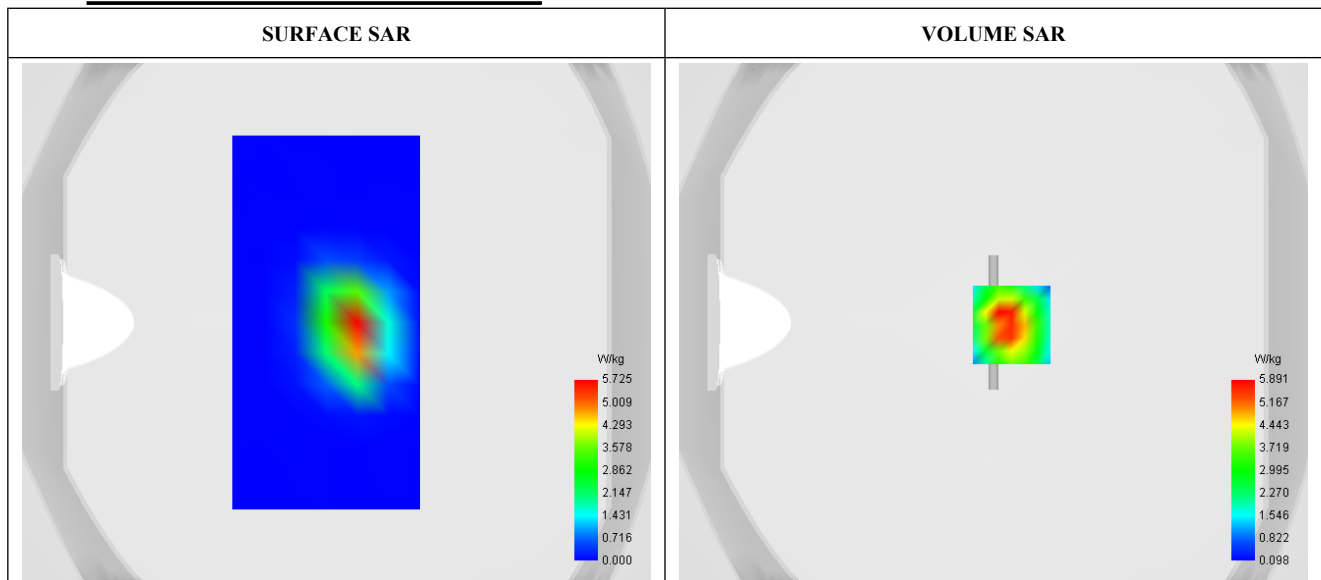
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.38
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
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.000
Relative permittivity (real part)	41.040
Relative permittivity (imaginary part)	13.220
Conductivity (S/m)	1.799

C. SAR Surface and Volume



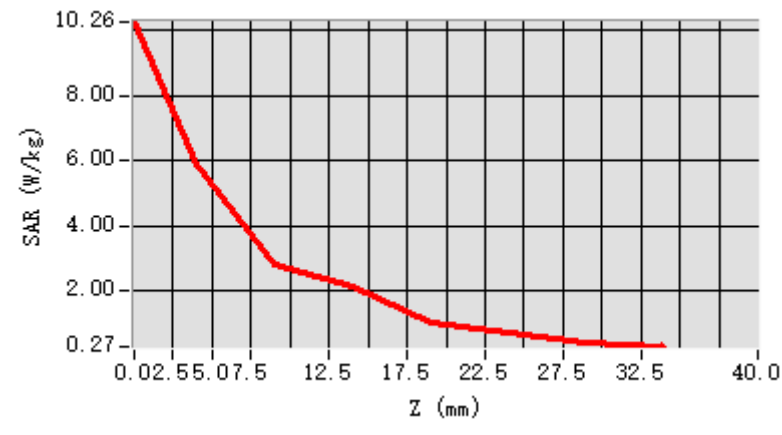
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 8.99 W/kg

D. SAR 1g & 10g

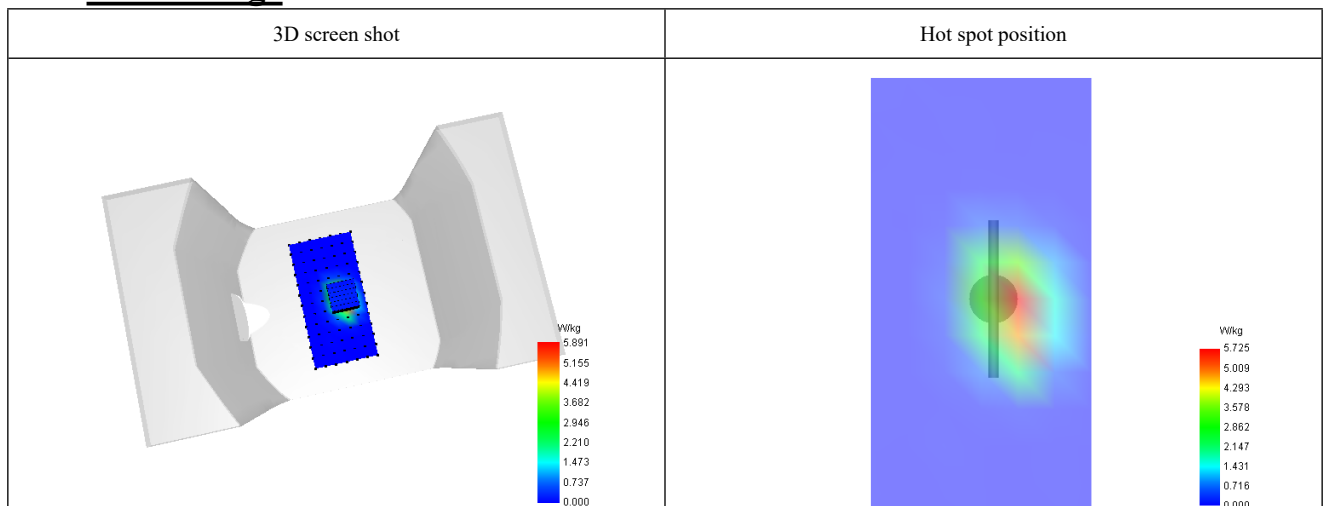
SAR 10g (W/Kg)	2.359
SAR 1g (W/Kg)	5.184
Variation (%)	-3.040
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.564081

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.263	5.891	2.802	2.126	1.045	0.723	0.415



F. 3D Image



#7

Date of measurement: 25/12/2025

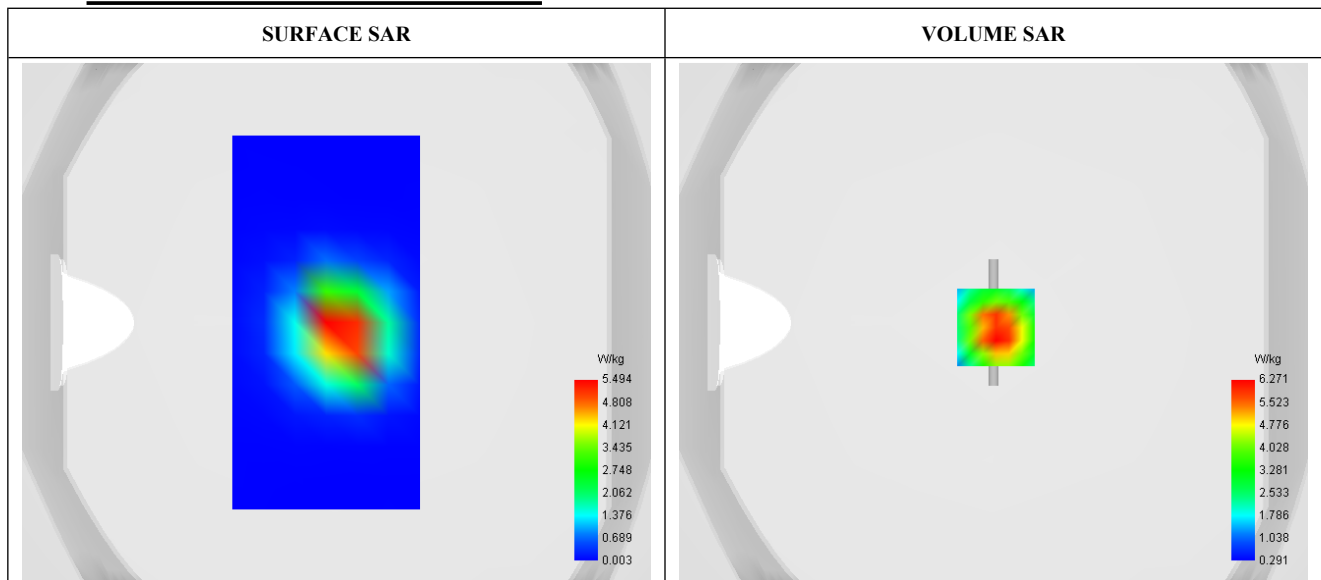
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.35
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
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2600.000
Relative permittivity (real part)	39.000
Relative permittivity (imaginary part)	13.570
Conductivity (S/m)	1.960

C. SAR Surface and Volume



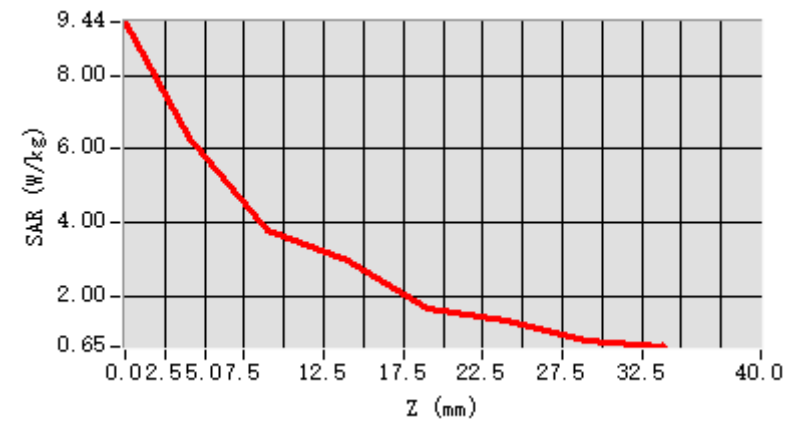
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 8.65 W/kg

D. SAR 1g & 10g

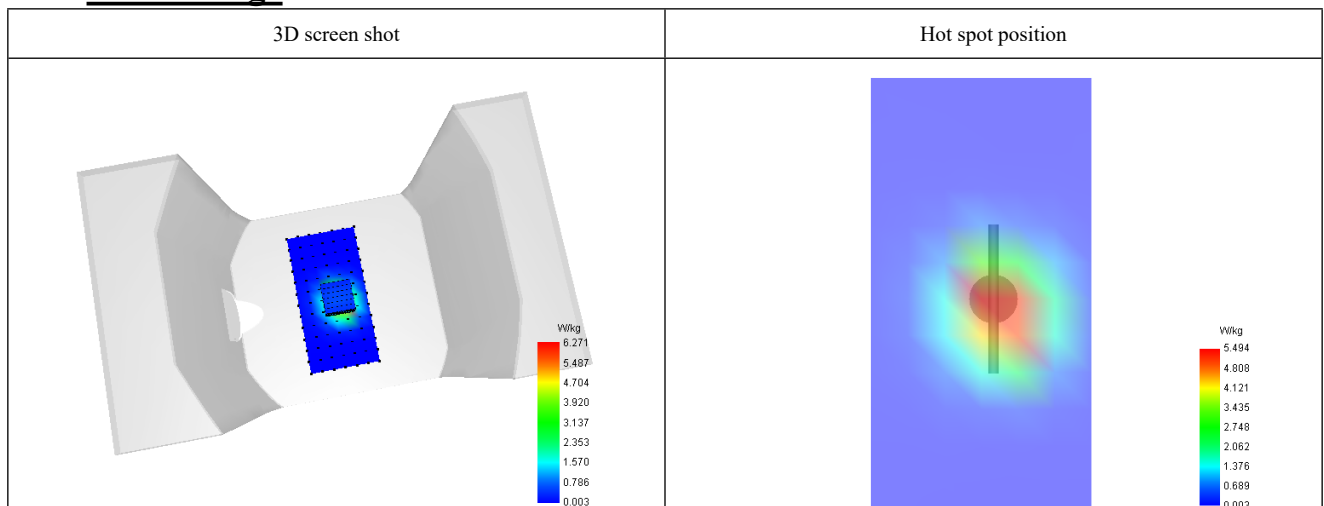
SAR 10g (W/Kg)	2.523
SAR 1g (W/Kg)	5.433
Variation (%)	-0.710
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	60.197736

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.444	6.271	3.775	2.988	1.706	1.361	0.819



F. 3D Image



#8

Date of measurement: 26/12/2025

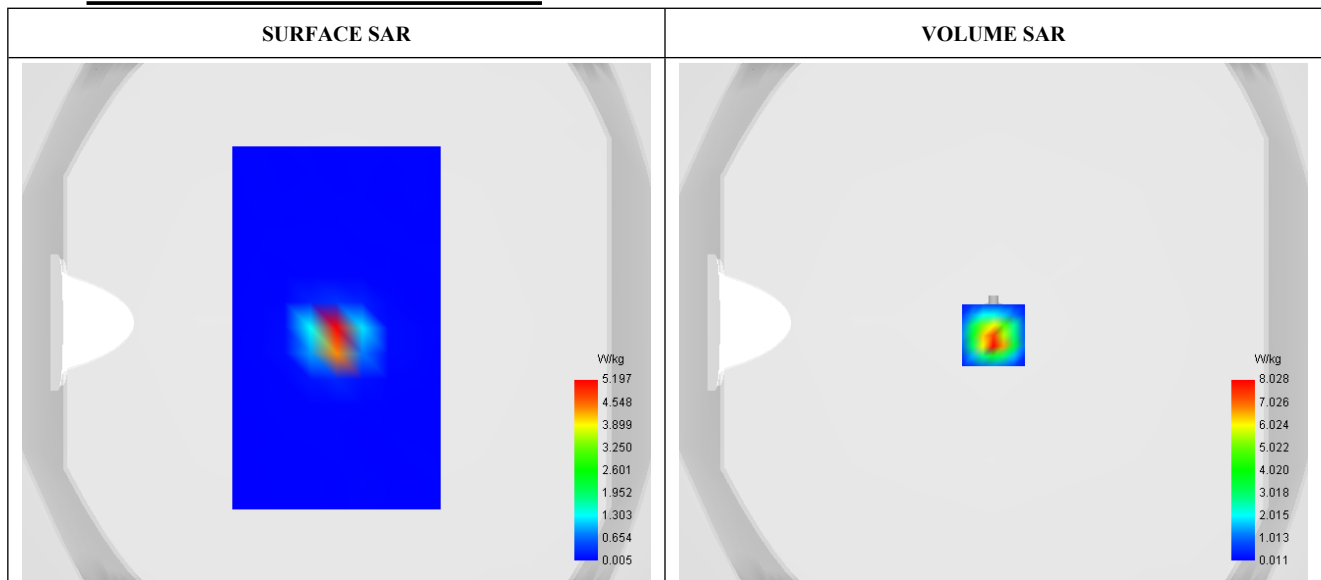
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.30
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5200
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5200.000
Relative permittivity (real part)	36.000
Relative permittivity (imaginary part)	16.130
Conductivity (S/m)	4.660

C. SAR Surface and Volume



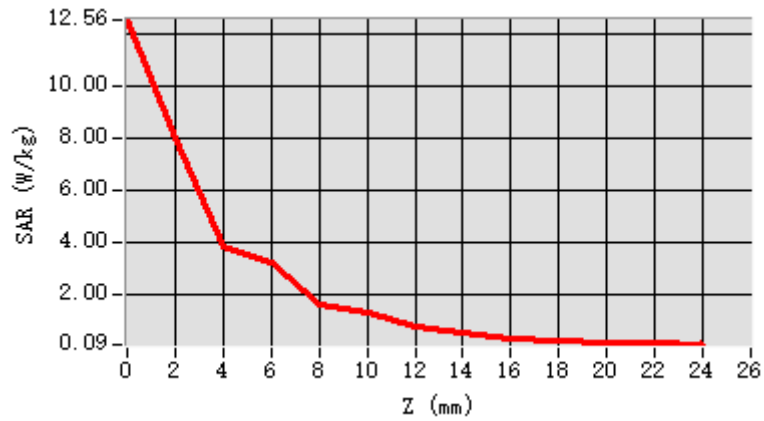
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 13.42 W/kg

D. SAR 1g & 10g

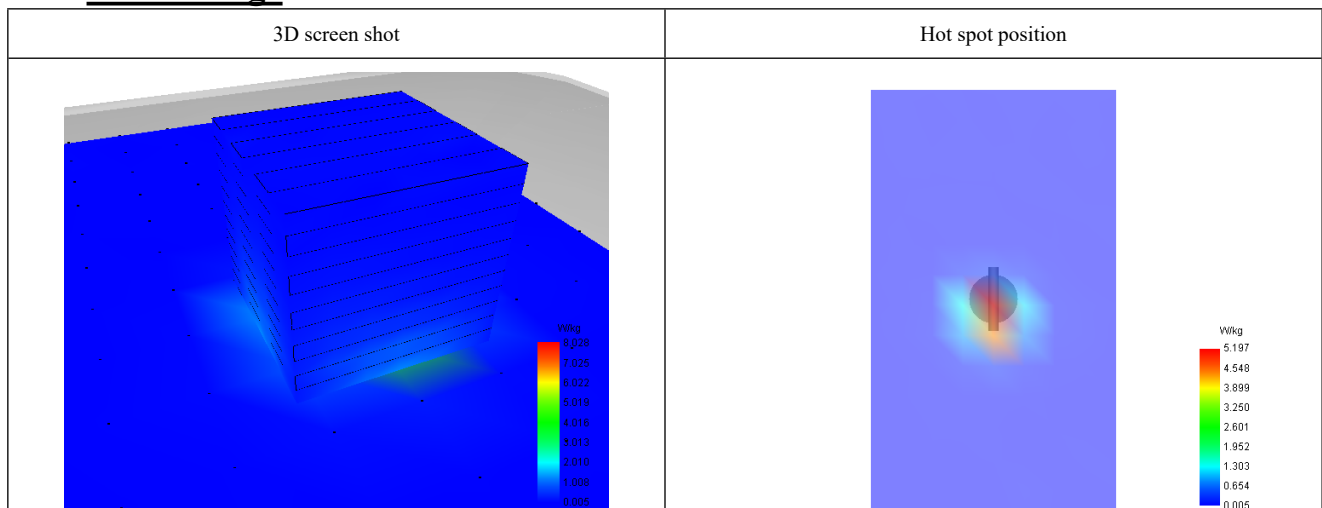
SAR 10g (W/Kg)	1.303
SAR 1g (W/Kg)	3.678
Variation (%)	4.620
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.169909

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	12.564	8.028	3.867	3.214	1.625	1.324	0.785	0.581	0.314	0.263	0.145	0.126



F. 3D Image



#9

Date of measurement: 30/12/2025

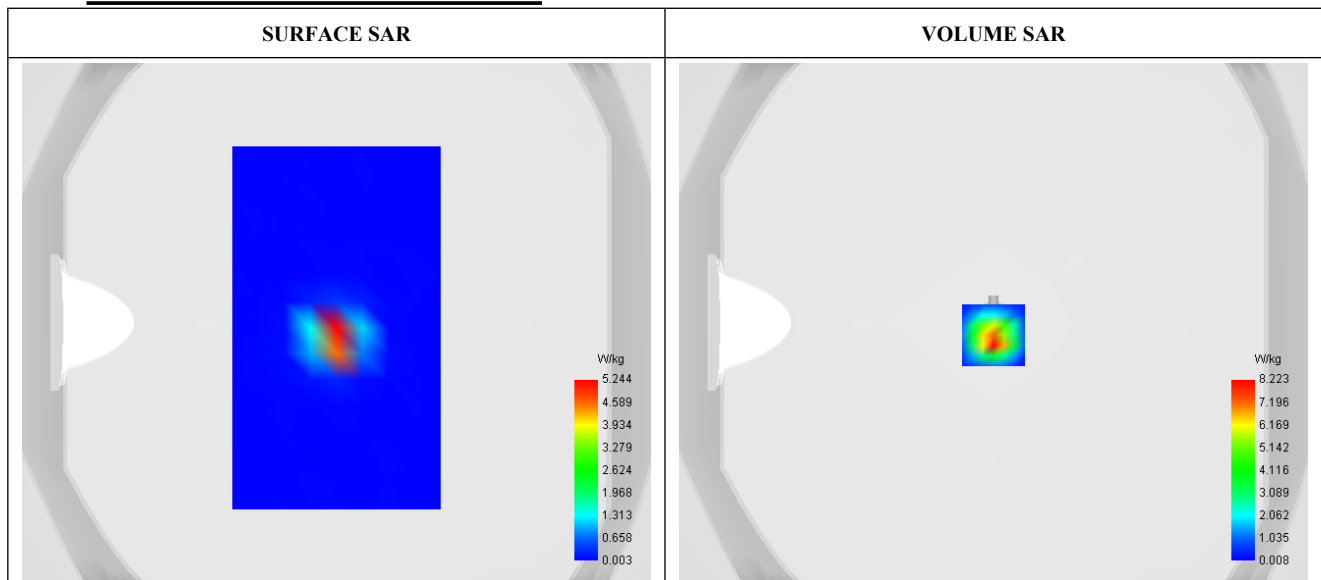
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.27
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5800
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5800.000
Relative permittivity (real part)	35.300
Relative permittivity (imaginary part)	16.360
Conductivity (S/m)	5.272

C. SAR Surface and Volume



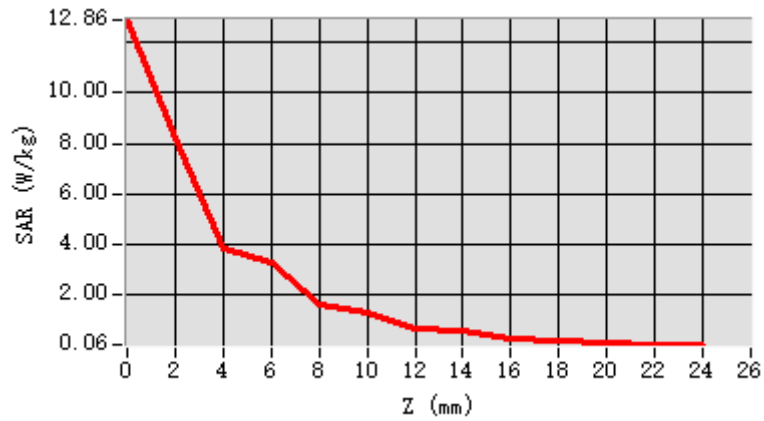
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 13.82 W/kg

D. SAR 1g & 10g

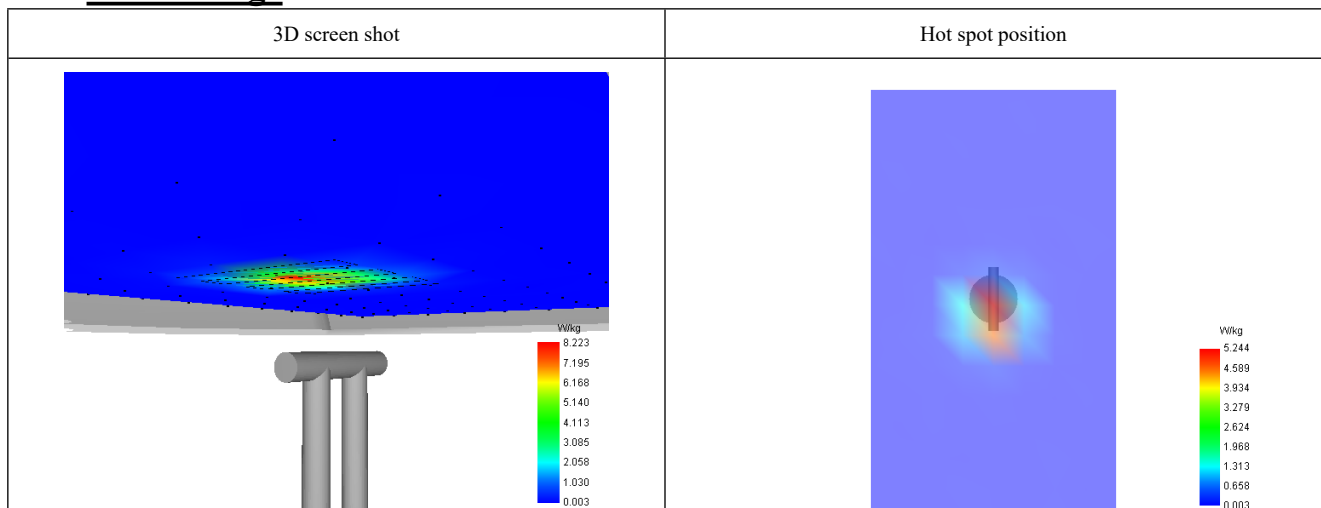
SAR 10g (W/Kg)	1.406
SAR 1g (W/Kg)	4.106
Variation (%)	1.050
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.257692

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	12.863	8.223	3.886	3.302	1.611	1.337	0.671	0.582	0.287	0.232	0.129	0.083



F. 3D Image



Appendix C. SAR Test Plots

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#1 GSM 850 Head
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#8 WCDMA Band 5 Body
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#10 WALN 5.2G Body
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#15 WALN 5.8G Head
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#17 WALN 2.4G Head
#18 WALN 2.4G Body
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#27 LTE Band 12 Head
#28 LTE Band 12 Body
#29 LTE Band 14 Head
#30 LTE Band 14 Body
#31 LTE Band 17 Head
#32 LTE Band 17 Body
#33 LTE Band 25 Head
#34 LTE Band 25 Body
#35 LTE Band 26A Head
#36 LTE Band 26B Head
#37 LTE Band 26A Body

#38 LTE Band 26B Body
#39 LTE Band 41 Head
#40 LTE Band 41 Body
#41 LTE Band 66 Head
#42 LTE Band 66 Body
#43 Bluetooth Head
#44 Bluetooth Body

#1

Date of measurement: 22/12/2025

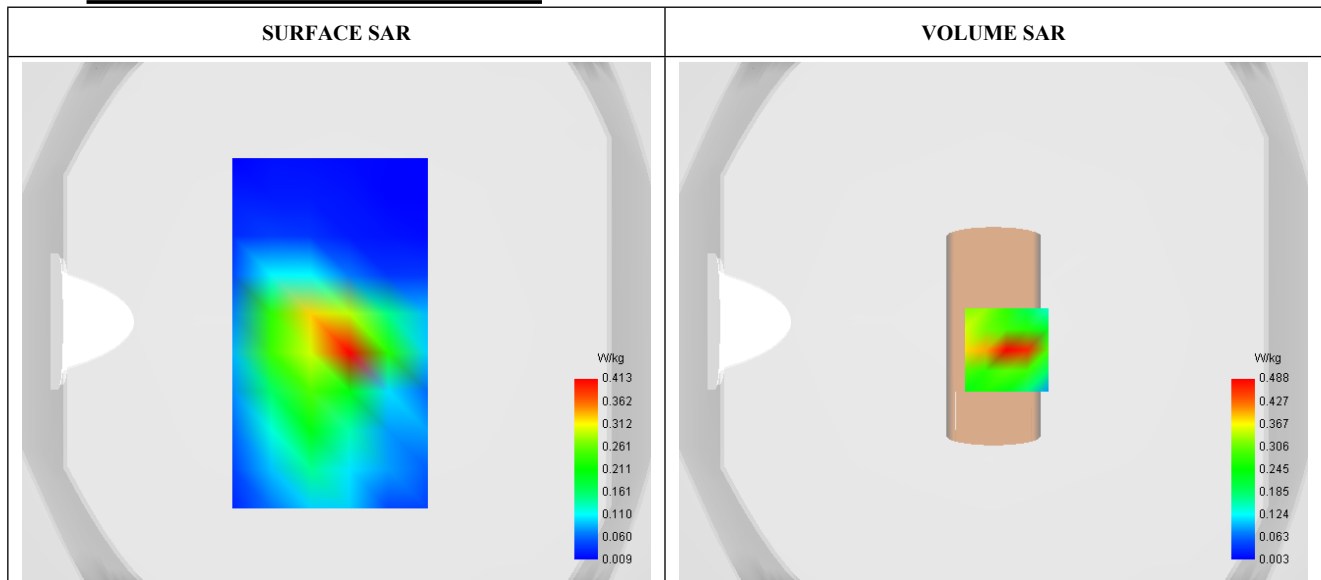
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.05
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	Band 2 (1900)
Channels/Frequency	Middle (9400)/ frequency 1880.000 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1880.000
Relative permittivity (real part)	41.270
Relative permittivity (imaginary part)	12.500
Conductivity (S/m)	1.319

C. SAR Surface and Volume



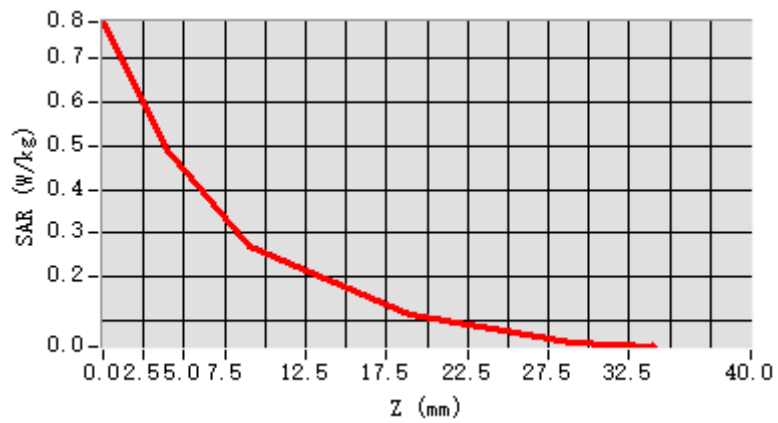
Maximum location: X=5.00, Y=-11.00 ; SAR Peak: 0.86 W/kg

D. SAR 1g & 10g

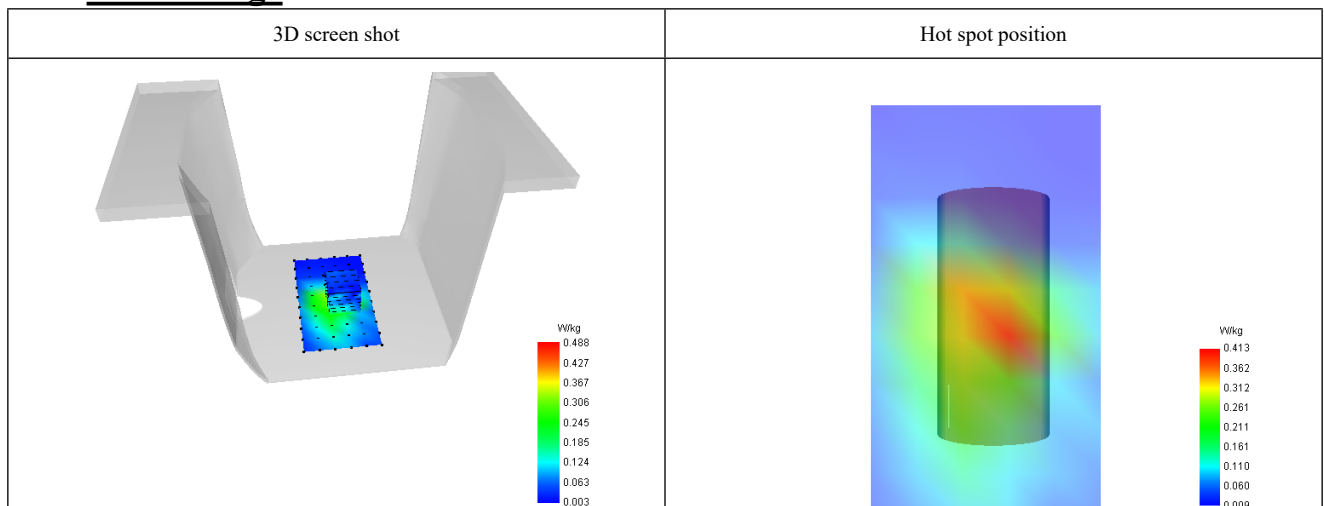
SAR 10g (W/Kg)	0.220
SAR 1g (W/Kg)	0.447
Variation (%)	-4.960
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.737705

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.783	0.488	0.272	0.193	0.115	0.080	0.050



F. 3D Image



#2

Date of measurement: 21/12/2025

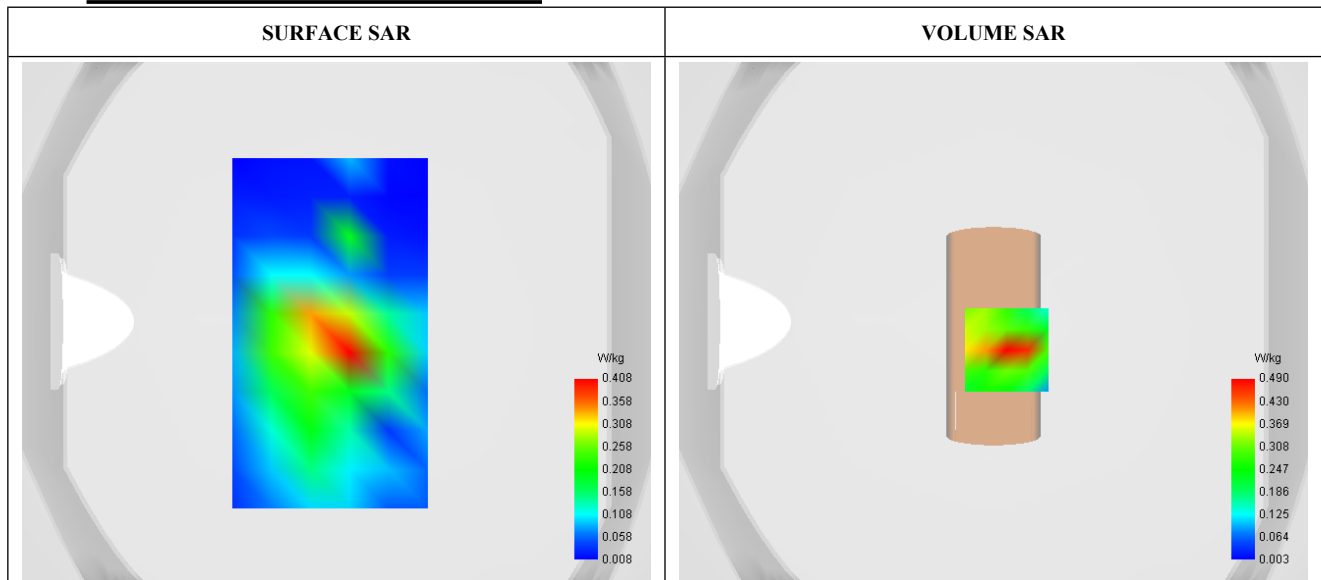
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.09
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	Band 4 (1700)
Channels/Frequency	Middle (1413)/ frequency 1732.600 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1732.600
Relative permittivity (real part)	41.520
Relative permittivity (imaginary part)	14.000
Conductivity (S/m)	1.400

C. SAR Surface and Volume



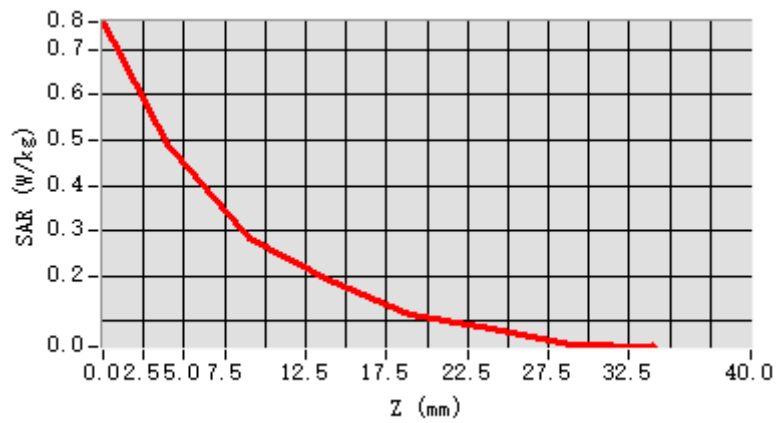
Maximum location: X=5.00, Y=-11.00 ; SAR Peak: 0.88 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.225
SAR 1g (W/Kg)	0.455
Variation (%)	-0.550
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.959184

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.762	0.490	0.284	0.191	0.113	0.083	0.049



F. 3D Image

