

SAR TEST REPORT

Product Name: DECT RADIO MODULE

Model Name: RTX1090 DECT

FCC ID: 2BFX8ZN-WW-1

Issued For : RACING FORCE S.p.A

Via E. Bazzano, 5 - 16019 Ronco Scrivia (GE) - ITALY

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan

District, Shenzhen, Guangdong, China

Report Number: LGT24E075HA01

Sample Received Date: May 17, 2024

Date of Test: Jun. 15, 2024

Date of Issue: Jun. 18, 2024

Max. SAR (1g): Body: 0.249 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Jun. 18, 2024	Initial Issue

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TEST REPORT CERTIFICATION

Applicant RACING FORCE S.p.A

Address Via E. Bazzano, 5 – 16019 Ronco Scrivia (GE) - ITALY

Manufacture RACING FORCE S.p.A

Address Via E. Bazzano, 5 – 16019 Ronco Scrivia (GE) - ITALY

Product Name DECT RADIO MODULE

Trademark RTX

Model Name RTX1090 DECT

Sample number LGT2406040-3

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093)	PASS			
IEEE 1528: 2013	.,,,,,,			

Prepared by:

Della He

Engineer

Approved by:

tati

Vita Li

Manager

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1. General Information

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

1.1 EUT Description

Product Name	DECT RADIO MODULE				
Trademark	RTX				
Model Name	RTX1090 DECT				
Series Model	N/A				
Model Difference	N/A				
Device Category	Portable				
Product stage	Production unit				
RF Exposure Environment	General Population / Uncontrolled				
Hardware Version	N/A				
Software Version	N/A				
Frequency Range	DECT: 1921.536 MHz ~ 1928.448 MHz				
Max. Reported	Mode	Body Worn(W/kg))			
SAR(1g): (Limit:1.6W/kg)	DECT-PP ANT 1	0.249			
Test distance: 0mm	DECT-PP ANT 2	0.211			
Rating	DC 5V				
Operating Mode:	DECT: GFSK				
Antenna Specification	FPC Antenna				
Operating Mode	Maximum continuous output				
Hotspot Mode	Not Support				
DTM Mode	Not Support				

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1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.			
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China			
	FCC Registration No.: 746540			
Accreditation Certificate	A2LA Certificate No.: 6727.01			
	IC Registration No.: CN0136			

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2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial- Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting

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

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

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

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

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg

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3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

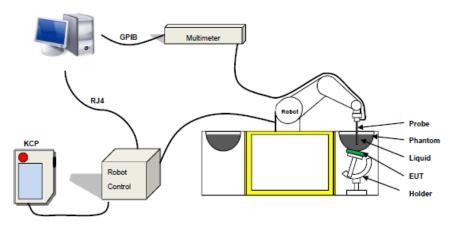
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

 $\boldsymbol{\rho}$ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



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

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

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The following figure shows the system.



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

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPGO364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- -Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

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3.2.2 Phantom

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



Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of \pm 0.5 mm would produce a SAR uncertainty of \pm 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.

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4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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

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LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation	Limited
Date	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]	Parameters	raiget	ivieasureu	%	%
2024-06-15	22.5	57	1900	22.2	Permittivity	40.00	40.35	0.88	±5
2024-00-15	22.5	57	1900	22.2	Conductivity	1.40	1.45	3.57	±5

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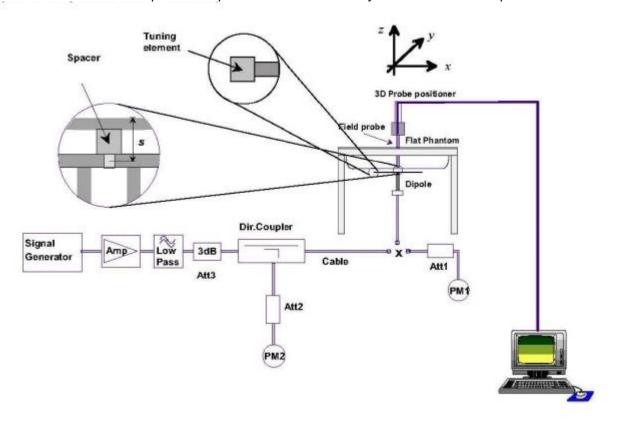


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

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

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2024-06-15	1900	100	4.050	40.50	40.85	-0.86	10

Note:

- 1. The tolerance limit of System validation ±10%.
- 2. The dipole input power (forward power) was 100 mW.
- 3. The results are normalized to 1 W input power.

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6. SAR Evaluation Procedures

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

The following steps are used for each test position

- -Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- -Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- -Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

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

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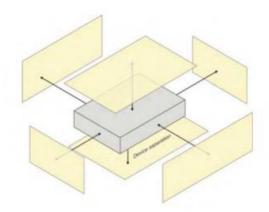


7. EUT Test Position

This EUT was tested in Back Side and Front Side.

7.1 Body-worn Position Conditions

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



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8. Uncertainty

8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at

approximately the 95% confidence level using a coverage factor of k=2.

Symbol	imately the 95% confidence level us Uncertainty Component	Prob. Dist.	Unc. a(x _i)	Div.	$u(x_i) = a(x_i)/q_i$	Ci	u(y) = C _i *u(x _i)	Vi
	Measurement system errors							
CF	Probe calibration	N (k = 2)	5.8	2	2.90	1	2.90	8
CF _{drift}	Probe calibration drift	R	0.12	√3	0.07	1	0.07	∞
LIN	Probe linearity and detection limit	R	1.91	√3	1.10	1	1.10	∞
BBS	Broadband signal	R	0.15	√3	0.09	1	0.09	8
ISO	Probe isotropy	R	0.18	√3	0.10	1	0.10	8
DAE	Other probe and data acquisition errors	N	2.7	1	2.70	1	2.70	8
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	0.81	1	0.81	2/δ	0.81	
DAT	Data processing errors	N	2.5	1	2.50	1	2.50	∞
	Phantom and devi	ce (DUT o	r validati	on anten	na) errors			
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.4	1	4.4	cε, cσ	4.40	∞
LIQ(T _c)	Temperature effects (medium)	R	2.9	√3	1.67	cε, cσ	1.67	∞
EPS	Shell permittivity	R	3.4	√3	1.96	See 8.4.2.3	0.49	8
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.8	1	0.8	2	1.60	8
D_{xyz}	Repeatability of positioning the DUT or source against the phantom	Ν	1.5	1	1.5	1	1.50	5
Η	Device holder effects	Ν	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	3.59	√3	2.07	1	2.07	8
TAS	Time-average SAR	R	1.73	√3	1.00	1	1.00	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	2.89	1	2.89	1	2.89	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.45	1	1.45	1	1.45	
Pin	Uncertainty in accepted power (validation measurement only)	N	2.5	1	2.5	1	2.50	
	Correction	s to the S	AR result	(if applie	ed)			
$C(\epsilon',\sigma)$	Phantom deviation from target (ϵ',σ)	N	2.31	1	2.31	1	2.31	
C(R)	SAR scaling	R	1.15	√3	0.66	1	0.66	
u(ΔSAR)	Combined uncertainty						9.53	
U	Expanded uncertainty and effective degrees of freedom					U =	19.06	

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9. Conducted Power Measurement

9.1 Test Result:

ANT 1

Carrier Channel	Frequency (MHz)	Output Power (dBm)
Low	1921.536	17.99
Mid	1924.992	18.06
High	1928.448	18.08

ANT 2

Carrier Channel	Frequency (MHz)	Output Power (dBm)
Low	1921.536	18.43
Mid	1924.992	18.38
High	1928.448	19.12

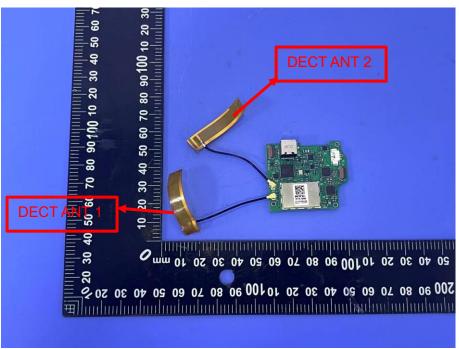
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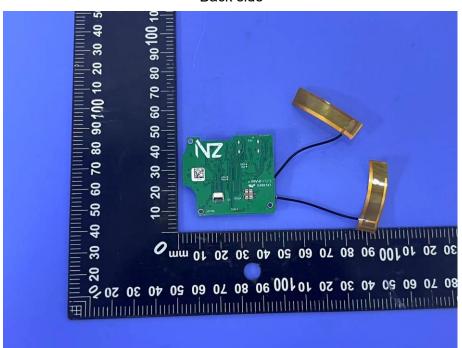
10. EUT and Test Setup Photo

10.1 EUT Photos





Back side



Note: 1. The EUT is a cordless DECT module (Portable Device) from Dialog operating in the 1921 MHz – 1928 MHz frequency range.

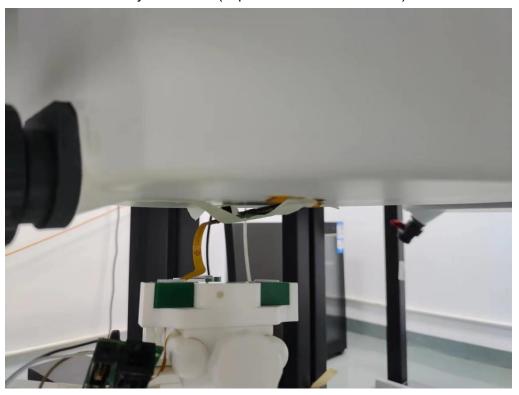
2. The objective of the measurements done by IMST was the dosimetric assessment of one device in a worst-case setup in head and body worn configuration. SAR tests in DECT were conducted with a specific channel and maximum output power during the measurement.

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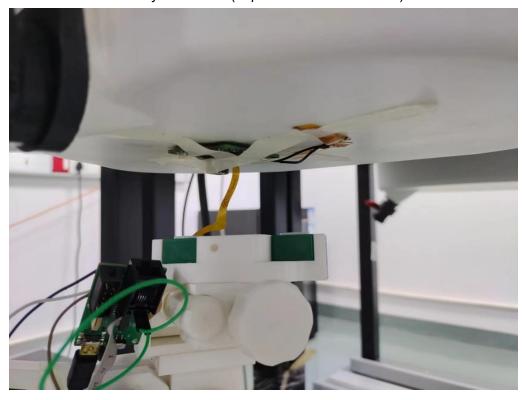


10.2 Setup Photos





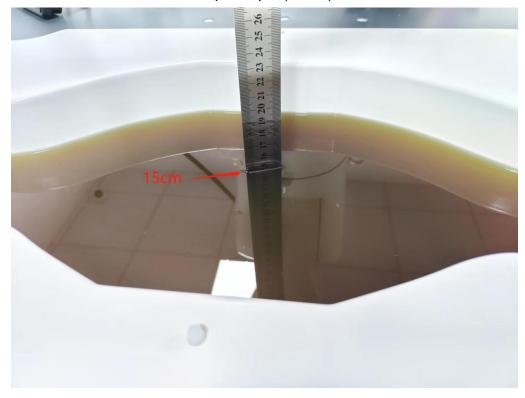
Body Back side (separation distance 0mm)



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Liquid depth (15 cm)



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11. SAR Result Summary

11.1 Body-worn SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn- up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
		Front Side	1921.536	0.163	0.15	18.50	17.99	0.183	/
DECT ANT 1 GFSK	Front Side	1924.992	0.174	2.72	18.50	18.06	0.193	/	
	Front Side	1928.448	0.226	1.13	18.50	18.08	0.249	1	
	Back Side	1928.448	0.157	1.68	18.50	18.08	0.173	/	
DECT ANT 2 GFSK	Front Side	1928.448	0.157	-2.63	19.50	19.12	0.171	/	
	Back Side	1928.448	0.193	-0.91	19.50	19.12	0.211	2	

Note:

- The test separation of all above table is 0mm.
 Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

 Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum

 rated power among all production units.
- b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
 ANT 1 and ANT 2 cannot transmit simultaneously.

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12. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2024.02.07	2025.02.06
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2024.02.07	2025.02.06
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184-HC	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116184	2024.02.23	2025.02.22
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10

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Appendix A. System Validation Plots

System Performance Check Data (1900MHz)

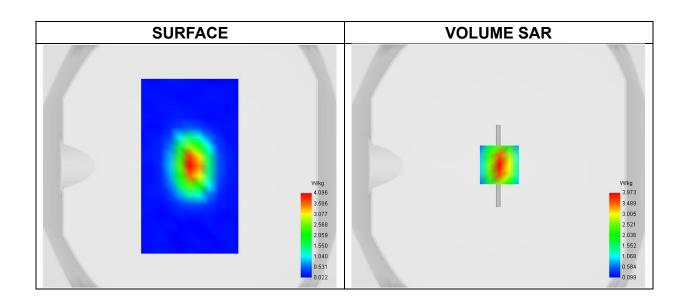
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-06-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.35
Conductivity (S/m)	1.45
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1



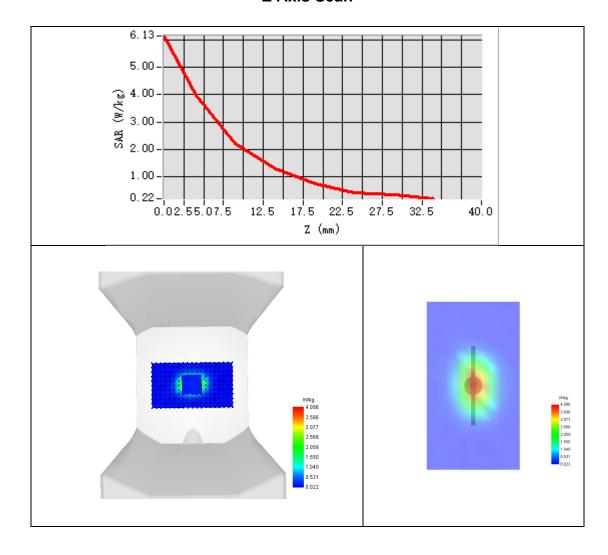
Maximum location: X=1.00, Y=1.00; SAR Peak: 6.10 W/kg

SAR 10g (W/Kg)	2.041
SAR 1g (W/Kg)	4.050

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Z Axis Scan



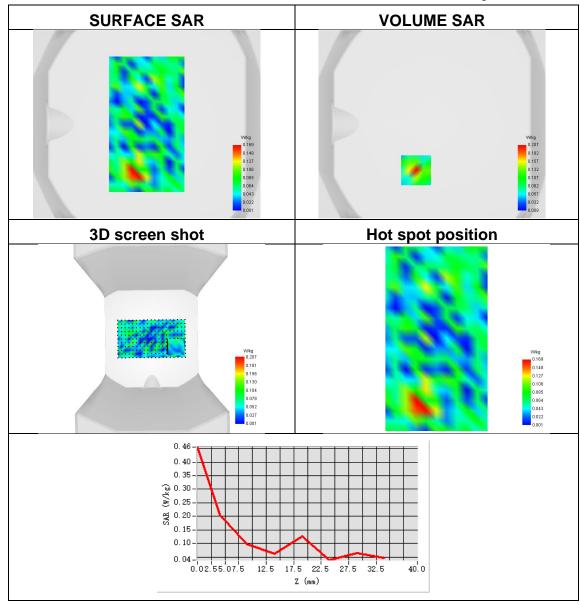


Appendix B. SAR Test Plots

Plot 1:

Test Date	2024-06-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	DECT
Frequency	1928.448
Relative permittivity	40.35
Conductivity (S/m)	1.45
ConvF	2.24
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.226

Maximum location: X=-17.00, Y=-49.00 ; SAR Peak: 0.54 W/kg



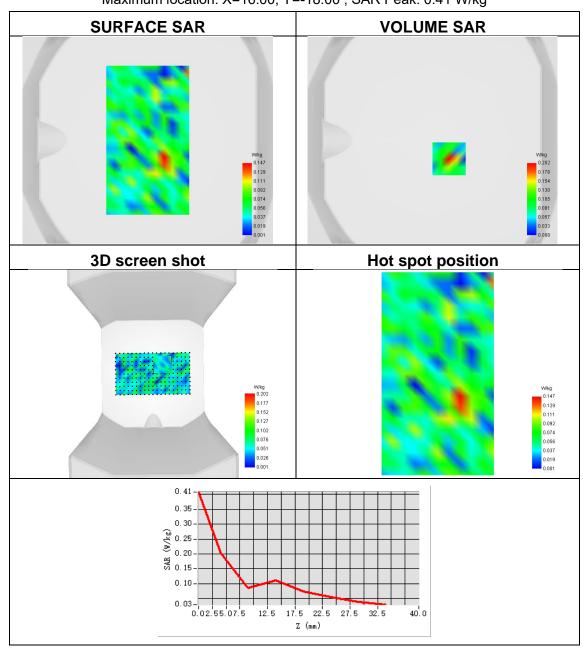
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Plot 2:

Test Date	2024-06-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	DECT
Frequency	1928.448
Relative permittivity	40.35
Conductivity (S/m)	1.45
ConvF	2.24
SAR 10g (W/Kg)	0.084
SAR 1g (W/Kg)	0.193

Maximum location: X=16.00, Y=-18.00; SAR Peak: 0.41 W/kg



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Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

*****END OF THE REPORT***

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