ISSUED BY Shenzhen BALUN Technology Co., Ltd.

SAR

ESTREPORT

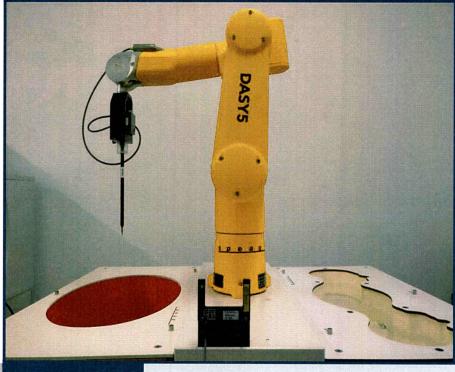


FOR

Wireless Earphones

ISSUED TO Tiinlab Corporation

No. 3333, Liuxian Avenue, Tower A, 35th Floor, Tanglang City, Nanshan District, Shenzhen, China





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Block B, 1st FL,Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong, P. R. China 518055 TEL: +86-755-66850100,FAX: +86-755-61824271 Email: qc@baluntek.com www.baluntek.com



Revision History

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

| Company Name Shenzhen BALUN Technology Co.,Ltd. | |
|---|---|
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi |
| Address | Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100 |
| Fax Number | +86 755 6182 4271 |

1.2 Identification of the Responsible Testing Location

| Test Location | Shenzhen BALUN Technology Co.,Ltd. | |
|--|---|--|
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi | |
| Address | Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China | |
| Accreditation The laboratory is a testing organizatin accredited by FCC as a | | |
| Certificate accredited testing laboratory. The designation number is C | | |
| Description | All measurement facilities used to collect the measurement data are | |
| | located at Block B, FL 1, Baisha Science and Technology Park, | |
| | Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, | |
| | P. R. China 518055 | |

1.3 Test Environment Condition

| Ambient Temperature | 20°C to 23℃ |
|------------------------------|------------------|
| Ambient Relative Humidity | 36% to 46% |
| Ambient Pressure | 100KPa to 102KPa |

1.4 Announce

- (1) The test report reference to the report template version v2.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 PRODUCT INFORMATION

2.1 Applicant Information

| Applicant | Tiinlab Corporation | |
|-----------|---|--|
| Address | No. 3333, Liuxian Avenue, Tower A, 35th Floor, Tanglang City, | |
| Address | Nanshan District, Shenzhen, China | |

2.2 Manufacturer Information

| Manufacturer | Tiinlab Corporation | |
|--------------|---|--|
| Address | No. 3333, Liuxian Avenue, Tower A, 35th Floor, Tanglang City, | |
| | Nanshan District, Shenzhen, China | |

2.3 Factory Information

| Factory | N/A |
|---------|-----|
| Address | N/A |

2.4 General Description for Equipment under Test (EUT)

| EUT Name | Wireless Earphones |
|-----------------------|--------------------|
| Model Name Under Test | EC302 |
| Series Model Name | N/A |
| Description of Model | N/A |
| name differentiation | N/A |
| Serial Number | EC302/0000885 |
| Hardware Version | V1 |
| Software Version | V0.1.8 |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |



2.5 Ancillary Equipment

| | Battery | |
|-----------------------|----------------------|--------|
| | Brand Name | N/A |
| | Model No. | 1050 |
| Ancillary Equipment 1 | Serial No. | N/A |
| | Capacity | 38 mAh |
| | Rated Voltage | 3.7 V |
| | Limit Charge Voltage | N/A |

2.6 Technical Information

| Network and Wireless | Bluetooth (BR+EDR+BLE) |
|----------------------|------------------------|
| connectivity | |

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

| Operating Mode | Bluetooth | | | | | | |
|-------------------|----------------|--|---------------------|--|--|--|--|
| Frequency Range | Bluetooth | Bluetooth 2402 ~ 2480 MHz | | | | | |
| Antenna Type | FPC Antenna | FPC Antenna | | | | | |
| Exposure Category | General Popul | General Population/Uncontrolled exposure | | | | | |
| EUT Stage | Portable Devic | Portable Device | | | | | |
| Draduat | Туре | Туре | | | | | |
| Product | Production | unit | Identical prototype | | | | |



3 SUMMARY OF TEST RESULT

3.1 Test Standards

| No. | Identity | Document Title |
|-----|------------------------------|---|
| 1 | 47 CFR Part 2.1093 | Radiofrequency radiation exposure evaluation: portable devices |
| 2 | ANSI 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 |



3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

| | SAR Value (W/Kg) | | | | | |
|--|-----------------------|--------------------|--|--|--|--|
| Body Position | General Population/ | Occupational/ | | | | |
| | Uncontrolled Exposure | ControlledExposure | | | | |
| Whole-Body SAR | 0.08 | 0.4 | | | | |
| (averaged over the entire body) | 0.08 | 0.4 | | | | |
| Partial-Body SAR | 1.60 | 8.0 | | | | |
| (averaged over any 1 gram of tissue) | 1.00 | 0.0 | | | | |
| SAR for hands, wrists, feet and | | | | | | |
| ankles | 4.0 | 20.0 | | | | |
| (averaged over any 10 grams of tissue) | | | | | | |

Table of Exposure Limits:

NOTE:

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

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



3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

| Frequency Band | | Maximum Report SAR (W/kg) 1 g |
|----------------|-------------|----------------------------------|
| Diveteeth | DH5 (Left) | 0.345 |
| Bluetooth | DH5 (Right) | 0.143 |
| Limit (W/kg) | | 1.6 |
| Ve | erdict | Pass |



3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 0.345 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.



4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

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

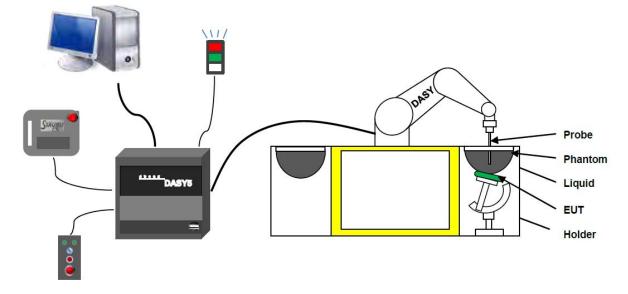
Where: σ is the conductivity of the tissue,

pis the mass density of the tissue and E is the RMS electrical field strength.



4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



The DASY5 system for performing compliance tests consists of the following items:

- 1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- 3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- 4. A unit to operate the optical surface detector which is connected to the EOC.
- 5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
- 6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
- 7. DASY5 software and SEMCAD data evaluation software.
- 8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- 9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
- 10. The device holder for handheld mobile phones.
- 11. Tissue simulating liquid mixed according to the given recipes.
- 12. System validation dipoles allowing to validate the proper functioning of the system.



4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision (repeatability ±0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brush less synchron motors; no stepper motors)
- Low ELF interference (motor control _elds shielded via the closed metallic construction shields)



4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 - SN7663 with following specifications is used.

| Construction | Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether) |
|---------------|---|
| Calibration | ISO/IEC 17025 calibration service available |
| Frequency | 10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz) |
| Directivity | \pm 0.2 dB in HSL (rotation around probe axis) ; \pm 0.4 dB in HSL (rotation normal to probe axis) |
| Dynamic range | 5 μW/g to > 100 mW/g; Linearity: ± 0.2 dB |
| Dimensions | Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm |
| Application | General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4) |
| | S/N:7663 |

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

EX3DV4



4.2.4 Data Acquisition Electronics

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with autozeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB



4.2.5 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.



Left hand
Right hand
Flat phantom





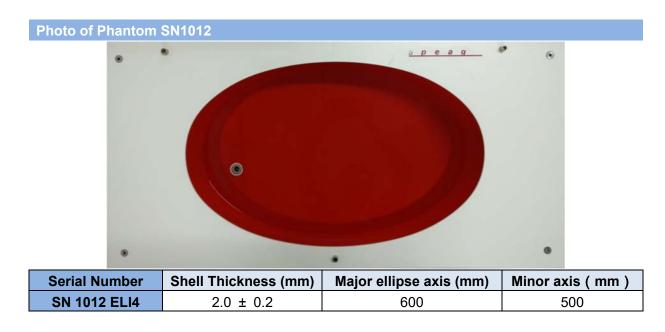
| Serial Number | Material | Length | Height |
|---------------|------------------------------------|--------|--------|
| SN 1857 SAM | Vinylester, glass fiber reinforced | 1000 | 500 |



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI4 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



Flat phantom





4.2.6 Device Holder

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



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



4.2.7 Simulating Liquid

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



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

| | | Не | ad (Referen | ce IEEE15 | 28) | | | |
|------------------|-------|-------------|---------------|-----------|-----------|-------|--------------|--------------|
| Frequency | Water | Sugar | Cellulose | Salt | Preventol | DGBE | Conductivity | Permittivity |
| (MHz) | (%) | (%) | (%) | (%) | (%) | (%) | σ (S/m) | 3 |
| 750 | 41.1 | 57.0 | 0.2 | 1.4 | 0.2 | 0 | 0.89 | 41.9 |
| 835 | 40.3 | 57.9 | 0.2 | 1.4 | 0.2 | 0 | 0.90 | 41.5 |
| 900 | 40.3 | 57.9 | 0.2 | 1.4 | 0.2 | 0 | 0.97 | 41.5 |
| 1800, 1900, 2000 | 55.2 | 0 | 0 | 0.3 | 0 | 44.5 | 1.4 | 40.0 |
| 2450 | 55.0 | 0 | 0 | 0.1 | 0 | 44.9 | 1.80 | 39.2 |
| 2600 | 54.9 | 0 | 0 | 0.1 | 0 | 45.0 | 1.96 | 39.0 |
| Frequency | Water | ŀ | lexyl Carbito | bl | Triton | X-100 | Conductivity | Permittivity |
| (MHz) | (%) | | (%) | | (% | 6) | σ (S/m) | 3 |
| 5200 | 62.52 | 17.24 | | | 17.24 | | 4.66 | 36.0 |
| 5800 | 62.52 | 17.24 17.24 | | | | 5.27 | 35.3 | |
| | | Body (F | rom instrun | nent manu | facturer) | | | |
| Frequency | Water | Sugar | Cellulose | Salt | Preventol | DGBE | Conductivity | Permittivity |
| (MHz) | (%) | (%) | (%) | (%) | (%) | (%) | σ (S/m) | 3 |
| 750 | 51.7 | 47.2 | 0 | 0.9 | 0.1 | 0 | 0.96 | 55.5 |
| 835 | 50.8 | 48.2 | 0 | 0.9 | 0.1 | 0 | 0.97 | 55.2 |
| 900 | 50.8 | 48.2 | 0 | 0.9 | 0.1 | 0 | 1.05 | 55.0 |
| 1800, 1900, 2000 | 70.2 | 0 | 0 | 0.4 | 0 | 29.4 | 1.52 | 53.3 |
| 2450 | 68.6 | 0 | 0 | 0.1 | 0 | 31.3 | 1.95 | 52.7 |
| 2600 | 68.2 | 0 | 0 | 0.1 | 0 | 31.7 | 2.16 | 52.5 |
| | Matar | | DGBE | | Sa | alt | Conductivity | Permittivity |
| Frequency(MHz) | Water | | (%) | | (% | 6) | σ (S/m) | 3 |
| 5200 | 78.60 | | 21.40 | | | 1 | 5.54 | 47.86 |
| 5800 | 78.50 | | 21.40 | | 0. | 1 | 6.0 | 48.20 |



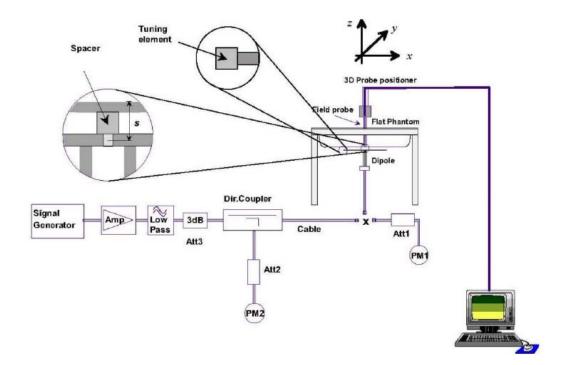
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:





6 TEST POSITION CONFIGURATIONS

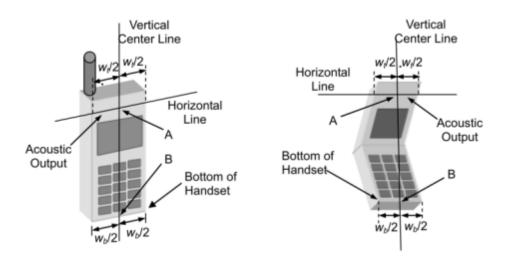
According to KDB 648474 D04 Handset , handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

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

6.1.1 Define two imaginary lines on the handset

- (a) The vertical center line passes through two points on the front side of the handset the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

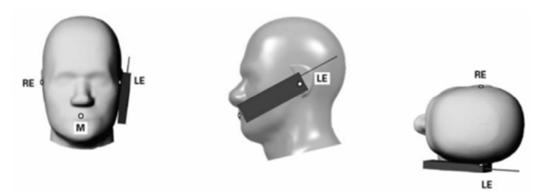


6.1.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



I E



6.1.3 Tilted Position

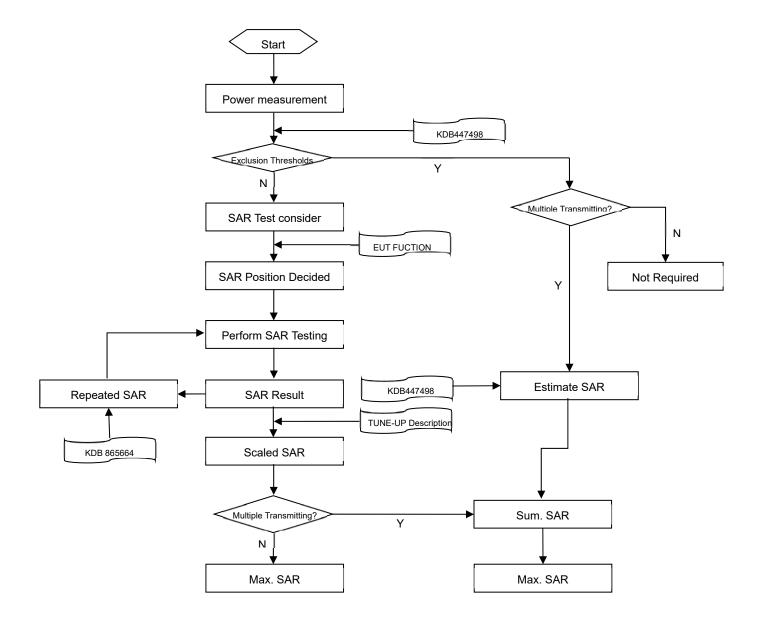
- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.





7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram





7.2 SAR Scan General Requirement

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

| | | | ≤3GHz | >3GHz | |
|--|------------------|------------------------|--------------------------------|-------------------------------------|--|
| Maximum distance from | closest mea | surement point | 5±1 mm | ½·δ·ln(2)±0.5 mm | |
| (geometric center of prob | e sensors) t | o phantom surface | | /2 0 III(2)±0.5 IIIII | |
| Maximum probe angle fro | om probe ax | is to phantom surface | 30°±1° 20°±1° | | |
| normal at the measurem | ent location | | 50 ±1 | 20 11 | |
| | | | ≤ 2 GHz: ≤ 15 mm | 3–4 GHz: ≤ 12 mm | |
| | | | 2 – 3 GHz: ≤ 12 mm | 4 – 6 GHz: ≤ 10 mm | |
| | | | When the x or y dimension of t | he test device, in the | |
| Maximum area scan spa | tial resolutio | n: Δx Area , Δy Area | measurement plane orientation | n, is smaller than the above, | |
| | | | the measurement resolution m | ust be \leq the corresponding x c | |
| | | | y dimension of the test device | with at least one measuremen | |
| | | | point on the test device. | | |
| Maximum zoom scan sn | atial recolution | an: Ax Zoom Ay Zoom | ≤ 2 GHz: ≤ 8 mm | 3–4 GHz: ≤ 5 mm* | |
| Maximum 200m Scan Spa | | ын. да 200нг, ду 200нг | 2 –3 GHz: ≤ 5 mm* | 4 – 6 GHz: ≤ 4 mm* | |
| Maximum zoom scan spatial resolution, normal to phantom surface Minimum zoom | | | 3–4 GHz: ≤ 4 mm | | |
| | unifor | rm grid: Δz Zoom (n) | ≤ 5 mm | 4–5 GHz: ≤ 3 mm | |
| | | | | 5–6 GHz: ≤ 2 mm | |
| | | Δz Zoom (1): between | | 3–4 GHz: ≤ 3 mm | |
| - | | 1st two points closest | ≤ 4 mm | 4–5 GHz: ≤ 2.5 mm | |
| - | graded | to phantom surface | | 5–6 GHz: ≤ 2 mm | |
| | grid | Δz Zoom (n>1): | | | |
| | | between subsequent | ≤ 1.5·Δz 2 | Zoom (n-1) | |
| | | points | | | |
| Minimum zoom | | | | 3–4 GHz: ≥ 28 mm | |
| | | x, y, z | ≥30 mm | 4–5 GHz: ≥ 25 mm | |
| scan volume | | | | 5–6 GHz: ≥ 22 mm | |

 δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 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.

7.4 Area & Zoom Scan Procedure

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

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



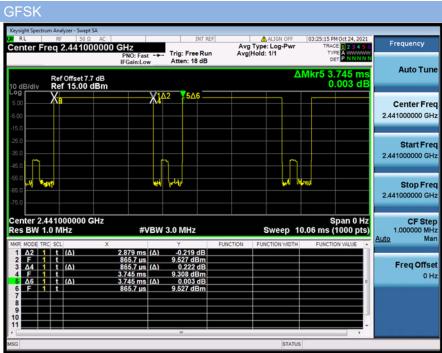
8 CONDUCTED RF OUPUT POWER

8.1 Bluetooth

| Mode | | GFSK | | π/4-DQPSK | | | |
|---------------------------|------|-------------|------|-----------|-------------|------|--|
| Channel | 0 | 39 | 78 | 0 | 39 | 78 | |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | |
| Conducted Power (dBm) | 9.79 | 9.68 | 9.40 | 9.81 | 9.65 | 9.38 | |
| Tune-up Power Limit (dBm) | | 10.00 | | | 10.00 | | |
| Mode | | 8-DPSK | | | - | | |
| Channel | 0 | 39 | 78 | - | - | - | |
| Frequency (MHz) | 2402 | 2441 | 2480 | - | - | - | |
| Conducted Power (dBm) | 9.91 | 9.79 | 9.56 | - | - | - | |
| Tune-up Power Limit (dBm) | | 10.00 | | | | | |
| Mode | | BLE (1Mbps) | | | BLE (2Mbps) | | |
| Channel | 0 | 39 | 78 | 0 | 19 | 39 | |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2440 | 2480 | |
| Conducted Power (dBm) | 9.89 | 9.75 | 9.40 | 9.99 | 9.85 | 9.50 | |
| Tune-up Power Limit (dBm) | | 10.00 | | | 10.00 | | |

Note: The Bluetooth duty cycle is 76.88% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

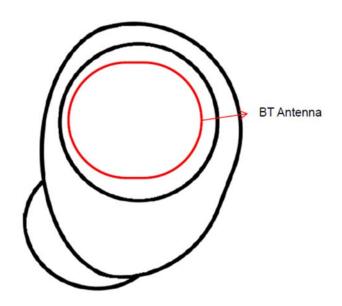
Duty Cycle



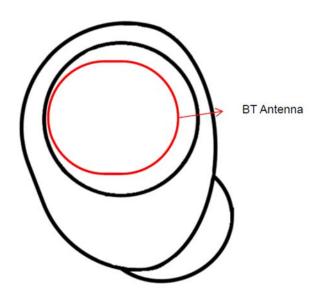


9 EUT ANTENNA LOCATION SKETCH

<u>Left Headset</u>



Right Headset



<EUT Back View>

| Antenna | Support Band |
|------------|--------------|
| BT Antenna | Bluetooth |



9.1 SAR Test Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 50 mm> Table, this Device SAR test configurations consider as following :

| Mada | Max. Cond | ucted Power | Test Position Configurations |
|--------------------------|--|--|---|
| wode | dBm | mW | Bottom Edge |
| Dista | nce to User | | <5mm |
| BR/EDR | 10.00 | 10.00 | Yes |
| BLE | 10.00 | 10.00 | No |
| | | | |
| er is the source-based t | me-average p | ower and repres | ents the maximum RF output power including tune- |
| production units | | | |
| 98 D01, for larger devic | es, the test se | eparation distance | ce of adjacent edge configuration is determined by |
| on between the antenna | a and the user. | | |
| 98 D01, standalone SA | R test exclusion | on threshold is a | pplied; If the distance of the antenna to the user is |
| d to determine SAR exc | lusion thresho | old | |
| 98 D01, the 1-g and 10- | g SAR test exc | lusion threshold | s for 100 MHz to 6 GHz at test separation distances |
| mined by: | | | |
| f channel, including tun | e-up tolerance | e, mW)/(min. tes | st separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ |
| 7.5 for 10-g extremity | SAR | | |
| the RF channel transmi | t frequency in | GHz | |
| d distance are rounded | to the neares | t mW and mm be | efore calculation |
| t is rounded to one dec | mal place for | comparison | |
| mm distance, we just ca | alculate mW of | f the exclusion th | nreshold value (3.0) to do compare. |
| 98 D01, at 100 MHz to 6 | GHz and for t | est separation di | stances > 50 mm, the SAR test exclusion threshold |
| ding to the following | | | |
| d at 50 mm in step 1) + | (test separation | on distance - 50 | mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz |
| | BR/EDR BLE BLE er is the source-based ti production units 98 D01, for larger device on between the antenna 98 D01, standalone SA d to determine SAR exc 28 D01, standalone SA d to determine SAR exc 28 D01, the 1-g and 10-g mined by: f channel, including tun 7.5 for 10-g extremity S the RF channel transmi d distance are rounded t is rounded to one deci mm distance, we just ca 28 D01, at 100 MHz to 6 ding to the following | Mode dBm Distance to User BR/EDR 10.00 BLE 10.00 BLE 10.00 er is the source-based time-average p production units 98 D01, for larger devices, the test set on between the antenna and the user. 98 D01, standalone SAR test exclusion thresholds D01, standalone SAR test exclusion thresholds D01, the 1-g and 10-g SAR test exclusion 98 D01, the 1-g and 10-g SAR test exclusion Thresholds The RF channel transmit frequency in the transmit frequency in the transmit frequency in the distance are rounded to the nearess to show the transmit calculate mW of the transmit for tr | dBmmWDistance to UserBR/EDR10.0010.00BLE10.0010.00BLE10.0010.00er is the source-based time-average power and repress production units98 D01, for larger devices, the test separation distance on between the antenna and the user.98 D01, standalone SAR test exclusion threshold is a d to determine SAR exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, the 1-g and 10-g SAR test exclusion threshold98 D01, at 100 MHz to 6 GHz and for test separation distance |

b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz



10 TEST RESULT

10.1 Bluetooth

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1 g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | Duty cycle (%) | Duty Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|------------------|-----------------|---------------|----------|----------------|------------------------|------------------------------|-------------------------|-----------------------------------|-------------------|----------------------|----------------|-------------------------------|--------------|
| Headset-Left Ear | | | | | | | | | | | | | |
| | Front Side | 0 | 0 | 2402 | 0.11 | 0.064 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.087 | / |
| | | 0 | 0 | 2402 | 0.15 | 0.253 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.345 | 1# |
| | Back Side | 0 | 39 | 2441 | -0.13 | 0.203 | 9.68 | 10.00 | 1.076 | 76.88 | 1.301 | 0.284 | / |
| DH5 | | 0 | 78 | 2480 | 0.05 | 0.189 | 9.40 | 10.00 | 1.148 | 76.88 | 1.301 | 0.282 | / |
| DHD | Left Edge | 0 | 0 | 2402 | 0.04 | 0.065 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.089 | / |
| | Right Side | 0 | 0 | 2402 | 0.07 | 0.145 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.198 | / |
| | Top Side | 0 | 0 | 2402 | -0.02 | 0.086 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.117 | / |
| | Bottom Side | 0 | 0 | 2402 | -0.09 | 0.020 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.027 | / |
| Headse | et-Right Ear | | | | | | | | | | | | |
| | Front Side | 0 | 0 | 2402 | 0.08 | 0.028 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.038 | / |
| | | 0 | 0 | 2402 | 0.11 | 0.105 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.143 | 2# |
| | Back Side | 0 | 39 | 2441 | -0.12 | 0.090 | 9.68 | 10.00 | 1.076 | 76.88 | 1.301 | 0.126 | |
| DH5 | | 0 | 78 | 2480 | 0.04 | 0.082 | 9.40 | 10.00 | 1.148 | 76.88 | 1.301 | 0.122 | |
| DHD | Left Edge | 0 | 0 | 2402 | 0.09 | 0.083 | 9.68 | 10.00 | 1.076 | 76.88 | 1.301 | 0.116 | / |
| | Right Side | 0 | 0 | 2402 | 0.07 | 0.039 | 9.40 | 10.00 | 1.148 | 76.88 | 1.301 | 0.058 | / |
| | Top Side | 0 | 0 | 2402 | -0.05 | 0.077 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.105 | / |
| | Bottom Side | 0 | 0 | 2402 | 0.16 | 0.048 | 9.79 | 10.00 | 1.050 | 76.88 | 1.301 | 0.066 | / |
| Note: R | efer to ANNEX (| C for the | detaileo | d test data | a for each | test configu | uration. | | | | | | |



11 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Note: The highest measured SAR is 0.253 < 0.80 W/kg, repeated measurement is not required.



12 SIMULTANEOUS TRANSMISSION

Note: The product has only one antenna for Bluetooth, so simultaneous transmission evaluation is not required in this report.





13 TEST EQUIPMENTS LIST

| Description | Manufacturer | Model | Serial No./Version | Cal. Date | Cal. Due |
|------------------------------|--------------|-----------|--------------------|------------|------------|
| PC | Dell | N/A | N/A N/A | | N/A |
| Test Software | Speag | DASY5 | 52.8.8.1222 | N/A | N/A |
| 2450MHz Validation Dipole | Speag | D2450V2 | SN: 952 | 2021/05/19 | 2024/05/18 |
| E-Field Probe | Speag | EX3DV4 | SN: 7663 | 2021/07/23 | 2022/07/22 |
| Data Acquisition Electronics | Speag | DAE4 | SN: 878 | 2021/07/15 | 2022/07/14 |
| Signal Generator | R&S | SMB100A | 182396 | 2020/12/21 | 2021/12/20 |
| Power Meter | R&S | NRVD-B2 | 7250BJ-0112/2011 | 2021/09/08 | 2022/09/07 |
| Power Sensor | R&S | NRV-Z4 | 100381 | 2021/09/09 | 2022/09/08 |
| Power Sensor | R&S | NRV-Z2 | 100211 | 2021/09/08 | 2022/09/07 |
| Network Analyzer | Agilent | E5071B | MY42404001 | 2021/04/01 | 2022/03/31 |
| Power Amplifier | SATIMO | 6552B | 22374 | N/A | N/A |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 25/13 OCPG56 | N/A | N/A |
| Phantom1 | Speag | SAM | SN: 1857 | N/A | N/A |
| Phantom2 | Speag | ELI4 | ELI4 SN: 1012 | | N/A |
| Attenuator | COM-MW | ZA-S1-31 | 1305003187 | N/A | N/A |
| Directional coupler | AA-MCS | AAMCS-UDC | 000272 | N/A | N/A |

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

1. There is no physical damage on the dipole;

2. System validation with specific dipole is within 10% of calibrated value;

3. Return-loss in within 20% of calibrated measurement.

4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.



ANNEX A SIMULATING LIQUID VERIFICATION RESULT

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

Left Headset & Right Headset

| Date | Liquid Type | Fre. (MHz) | Temp. (℃) | Meas. Conductivity (σ) (S/m) | Meas. Permittivity (ε) | Target Conductivity (σ) (S/m) | Target Permittivity (ε) | Conductivity Tolerance (%) | Permittivity Tolerance (%) |
|--|----------------|---------------|--------------|---------------------------------------|------------------------------|--|-------------------------------|----------------------------------|----------------------------------|
| 2021.11.03 | Head | 2450 | 21.1 | 1.84 | 38.66 | 1.80 | 39.20 | 2.22 | -1.38 |
| Note: The tolerance limit of Conductivity and Permittivity is± 5%. | | | | | | | | | |



ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification of 10 %(for 1 g).

Left Headset & Right Headset

| Date | Liquid | Freq. | Power | Measured | Normalized SAR | Dipole SAR | Tolerance | |
|--|--------|-------|-------|------------|----------------|------------|-----------|--|
| | Туре | (MHz) | (mW) | SAR (W/kg) | (W/kg) | (W/kg) | (%) | |
| 2021.11.03 | Head | 2450 | 100 | 5.38 | 53.80 | 53.00 | 1.51 | |
| Note: The tolerance limit of System validation ±10%. | | | | | | | | |



System Performance Check Data (2450MHz)

Date: 2021.11.03

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.835 S/m; ϵ_r = 38.661; ρ = 1000 kg/m³ Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- • Electronics: DAE4 Sn878; Calibrated: 2021.07.19
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 6.23 W/kg

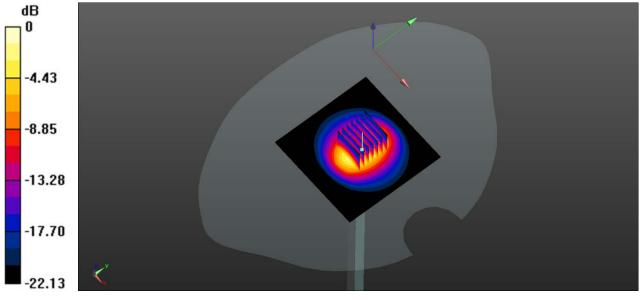
CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.95 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 6.24 W/kg



0 dB = 6.24 W/kg



ANNEX C TEST DATA

Meas.1 Body Plane with Back Side on Low Channel in Bluetooth Mode

Date: 2021.11.03 Communication System Band: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.301 Medium parameters used: f = 2402 MHz; σ = 1.782 S/m; ϵ_r = 38.933; ρ = 1000 kg/m³ Phantom section: Flat Section

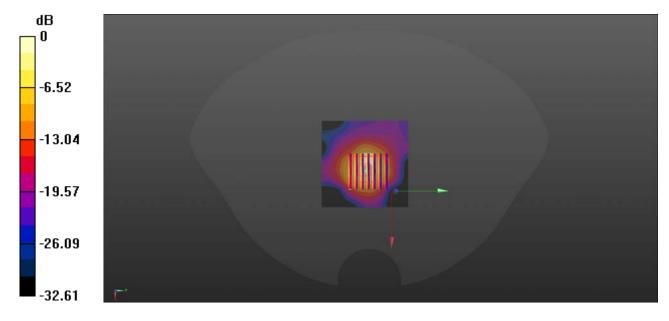
Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- • Electronics: DAE4 Sn878; Calibrated: 2021.07.19
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.250 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.787 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 1.09 W/kg SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.081 W/kg Maximum value of SAR (measured) = 0.294 W/kg



0 dB = 0.294 W/kg



Meas.2 Body Plane with Back Side on Low Channel in Bluetooth Mode

Date: 2021.11.03

Communication System Band: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.301 Medium parameters used: f = 2402 MHz; σ = 1.782 S/m; ϵ_r = 38.933; ρ = 1000 kg/m³ Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- • Electronics: DAE4 Sn878; Calibrated: 2021.07.19
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch0/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.136 W/kg

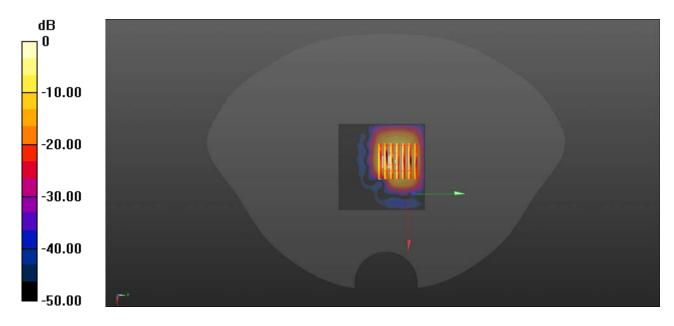
Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.661 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.040 W/kg

Maximum value of SAR (measured) = 0.118 W/kg







ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2190331-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2190331-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--