

TEST REPORT

Applicant: OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra

Address: Building, Binhe Avenue North, Futian District,

Shenzhen, Guangdong, P.R. China

Equipment Type: Watch

Model Name: OPWWE251

Brand Name: ONEPLUS

FCC ID: 2ABZ2-OPWWE251

Test Standard: FCC 47 CFR Part 2.1093

(refer section 3.1)

Maximum SAR: Front of Face (1 g@10mm): 0.20 W/kg

Limb (1 g@0mm): 0.91 W/kg

Sample Arrival Date: Sep. 18, 2024

Test Date: Nov. 06, 2024 - Nov. 07, 2024

Date of Issue: Nov. 25, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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Revision History

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Rev. 02 Nov. 25, 2024 Updated the ANNEX B SYSTEM CHECK RESULT and ANNEX C TEST DATA

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Addross	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
Location	China
Location	✓ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park,
	No. 1008, Songbai Road, Yangguang Community, Xili Sub-district,
	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation	The laboratory is a testing organization accredited by FCC as a
Certificate	accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative	200/ to 700/
Humidity	30% to 70%



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant OnePlus Technology (Shenzhen) Co., Ltd.	
A dalace e	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe
Address	Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

2.2 Manufacturer Information

Manufacturer		OnePlus Technology (Shenzhen) Co., Ltd.
	Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe
	Address	Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Watch	
Model Name Under Test	OPWWE251	
Series Model Name	N/A	
Description of Model	NIA	
Name Differentiation	N/A	
Hardware Version	XK929	
Software Version	OPWWE251_11_A.02	
Dimensions (Approx.)	46.6mm*47.6mm*11.75mm	
Weight (Approx.)	N/A	

2.4 Ancillary Equipment

	Battery		
	Brand Name	OPPO	
	Model No.	BLW016	
Ancillary Equipment 1	Capacity	Rated Capacity: 631mAh/2.46Wh	
		Typical Capacity: 648mAh/2.53Wh	
	Rated Voltage	3.89V	
	Limit Charge Voltage	4.53V	



2.5 Technical Information

Notwork and Wireless	Bluetooth (BR+EDR+BLE)
Network and Wireless	WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20)
connectivity	GNSS, NFC

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

Operating Mode	2.4G WIFI, 5G WIFI, Bluetooth, NFC		
	802.11b/g/ n(HT20)	2412 MHz ~ 2462 MHz	
		5150 M⊦	Iz ~ 5250 MHz
Fraguency Pange	802.11a/	5250 MH	Iz ~ 5350 MHz
Frequency Range	n(HT20)	5470 MH	Iz ~ 5725 MHz
		5725 MHz ~ 5850 MHz	
	Bluetooth	2402 MHz ~ 2480 MHz	
	NFC	13.56 MHz	
	WIFI: Monopole Antenna		
Antenna Type	Bluetooth: Monopole Antenna		
	NFC: Coil Antenna		
Hotspot Function	N/A		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type			☐ 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	FCC KDB 447498	447498 D04 Interim General RF Exposure Guidance v01	
3	D04 v01		
4	FCC KDB 865664	SAR Measurement 100 MHz to 6 GHz	
4	D01 v01r04		
5	FCC KDB 865664	RF Exposure Reporting	
3	D02 v01r02		
6	KDB 941225 D01	3G SAR MEAUREMENT PROCEDURES	
0	v03r01		
7	KDB 941225 D05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES	
_ ′	v02r05		



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.

Table of Exposure Limits:

	SAR Valu	ıe (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	8.0
SAR for hands, wrists, feet and		
ankles	4.0	20.0
(averaged over any 10 grams of tissue)		

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)

		Maximum Scal	ed SAR (W/kg)	Maximum Report SAR (W/kg)				
Equipment	Band	Front of	Limb (0mm)	Front of	Limb (0mm)			
Class		Face(10mm)		Face(10mm)				
		1g SAR	10g SAR	1g SAR	10g SAR			
DTS	2.4G WLAN	0.14	0.51					
	5.3G WLAN	0.19	0.85		0.91			
NII	5.6G WLAN	0.20	0.91	0.20				
	5.8G WLAN	0.18	0.75					
DSS	Bluetooth	0.16	0.45					
Limit (W/kg)		1.6 4.0		1.6	4.0			
Vei	rdict	PASS						

3.3.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment	Maximum Report SAR (W/kg)	Maximum Report SAR (W/kg)	
Equipment Class	Front of Face(10mm)	Limb (0mm)	SPLSR
Class	1g SAR	10g SAR	
DTS	0.30	0.96	/
NII	0.37	1.36	/
DSS	0.37	1.36	/
Limits (W/kg)	1.6	4.0	0.04
Test Verdict		Pass	

Note: The simultaneous transmission SAR detail please refer to section 12.

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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 0.20 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 0.91 W/kg, which is lower than 3.75 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

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

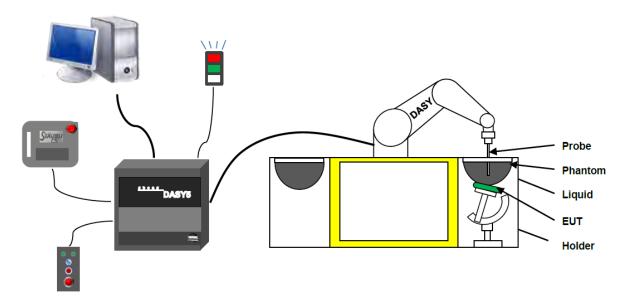
Where: σ is the conductivity of the tissue,

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.
- 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.

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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)

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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-SN: 7893 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 ± 0.2 dB in HSL (rotation around probe axis); ± 0.4 dB in HSL (rotation normal to probe

axis)

Dynamic range $5 \mu W/g$ to > 100 mW/g; Linearity: $\pm 0.2 dB$

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)



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.



4.2.4 Data Acquisition Electronics

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, 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

Photo of Phantom SN1576



Serial Number	Material	Length	Height
SN 1576 SAM	Vinylester, glass fiber reinforced	1000	500



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.

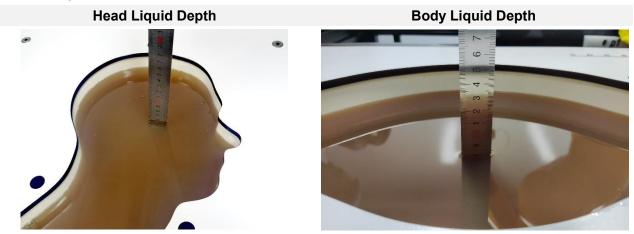


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600- 10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4- diol, Alkoxylated alcohol



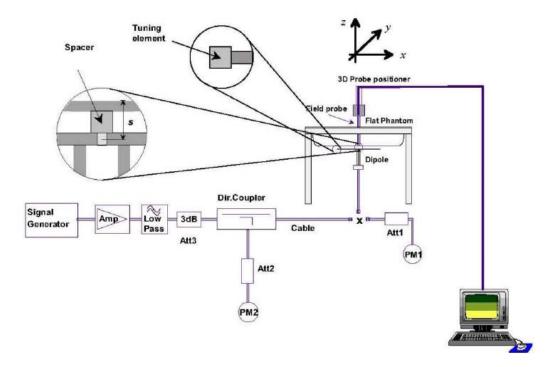
5 SYSTEM VERIFICATION

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

6.1 Front-of-face device

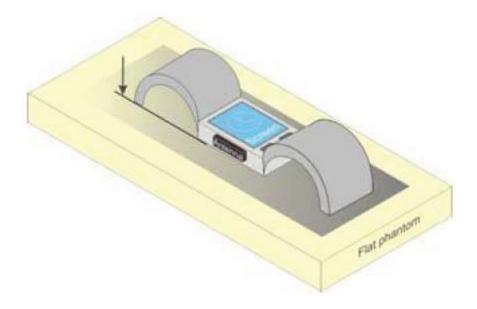
In these cases the device under test shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm between the phantom surface and the device shall be used.

This distance corresponds to the 95 % percentile of the nose protrusion distance obtained in the anthropomorphic survey of Gordon et al.

6.2 Limb-worn device

A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device. Therefore, the test positions of 6.1.4.4 also apply. The strap shall be opened so that it is divided into two parts as shown in Figure 10. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom.

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.

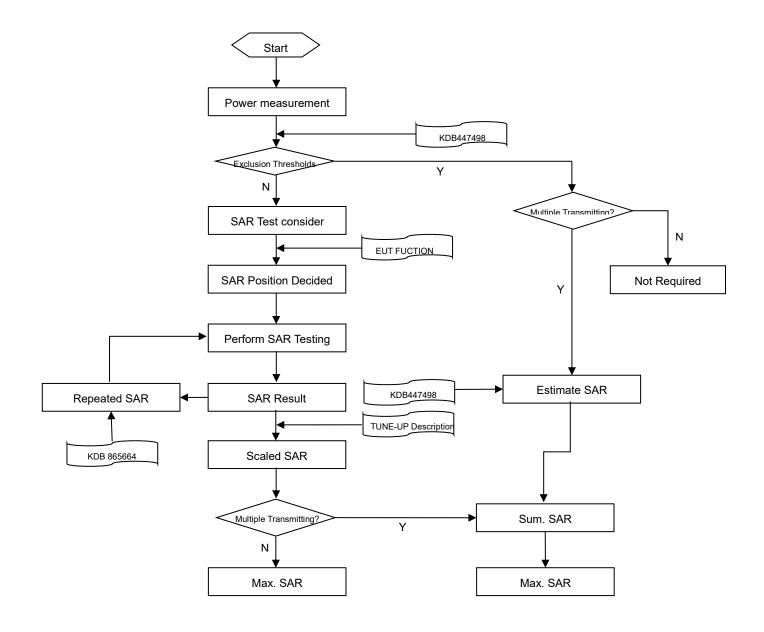


Test position for limb-worn devices



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. Boththe 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 o		•	5±1 mm	½·δ·ln(2)±0.5 mm			
		·		()			
	•	s to phantom surface	30°±1°	20°±1°			
normal at the measureme	ent location			-			
			≤ 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 spat	ial resolutior	n: ∆x Area , ∆y Area	measurement plane orientation	n, is smaller than the above,			
			the measurement resolution m	ust be ≤ the corresponding x or			
			y dimension of the test device	with at least one measurement			
			point on the test device.				
Maximum zoom agan and	tial recolution	on: Av Zoom Av Zoom	≤ 2 GHz: ≤ 8 mm	3–4 GHz: ≤ 5 mm*			
Maximum 200m scan spa	ıllal resolullo	л. дх 200т, ду 200т	2 –3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm*			
				3–4 GHz: ≤ 4 mm			
	unifor	m grid: Δz Zoom (n)	≤ 5 mm	4–5 GHz: ≤ 3 mm			
Maximum zoom scan		ensors) to phantom surface probe axis to phantom surface $30^{\circ}\pm1^{\circ}$ $20^{\circ}\pm1^{\circ}$ $20^{\circ}\pm1^{\circ}\pm1^{\circ}$ $20^{$					
spatial resolution,		Δz Zoom (1): between		3–4 GHz: ≤ 3 mm			
normal to phantom		1st two points closest	≤ 4 mm	4–5 GHz: ≤ 2.5 mm			
surface	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			
scan volume		x, y, z	≥30 mm	4–5 GHz: ≥ 25 mm			
Scall volume				5–6 GHz: ≥ 22 mm			

Note:

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

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7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 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.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

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

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



8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI

Band	Mode	Channal	Freq.	Average Power	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	(dBm)	Limit (dBm)	Require.
		1	2412	14.57	16.00	Yes
	802.11b	6	2437	14.52	16.00	Yes
		11	2462	14.68	16.00	Yes
2.4	802.11g	1	2412	13.88	15.00	No
(2.4~2.4835)		6	2437	14.10	15.00	No
(2.4~2.4633)		11	2462	14.14	15.00	No
		1	2412	13.67	15.00	No
	802.11n(HT20)	6	2437	13.82	15.00	No
		11	2462	13.98	15.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/ka.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 0.516* (31.620 mw)/(39.810 mw) = 0.410 W/kg, so the 2.4GHz OFDM SAR test is not required.



8.1.2 5G WIFI

Band		01 1	Freq.	Average	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	Power (dBm)	Limit (dBm)	Require.
		36	5180	15.15	16.00	Yes
	802.11a	40	5200	15.22	16.00	Yes
5.2		48	5240	15.23	16.00	Yes
(5.15~5.25)		36	5180	15.07	16.00	No
	802.11n(HT20)	44	5220	14.97	16.00	No
		48	5240	15.07	16.00	No
		52	5260	16.29	17.00	Yes
	802.11a	60	5300	16.49	17.00	Yes
5.3		64	5320	16.35	17.00	Yes
(5.25~5.35)		52	5260	16.08	17.00	No
	802.11n(HT20)	60	5300	16.19	17.00	No
		64	5320	16.17	17.00	No
		100	5500	16.68	17.00	Yes
		116	5580	16.67	17.00	No
	802.11a	120	5600	16.58	17.00	No
5.6		140	5700	16.76	17.00	Yes
(5.47~5.725)		144	5720	16.78	17.00	Yes
(3.47~3.723)		100	5500	16.49	17.00	No
	902 44×/UT20\	116	5580	16.45	17.00	Yes Yes Yes No No No No No Yes Yes Yes Yes Yes No No No No No Yes No Yes Yes No Yes Yes Yes
	802.11n(HT20)	140	5700	16.68	17.00	No
		144	5720	16.71	17.00	No
		149	5745	16.82	17.00	Yes
	802.11a	157	5785	16.71	17.00	Yes
5.8		165	5825	16.46	17.00	Yes
(5.725~5.85)		149	5745	16.61	17.00	No
	802.11n(HT20)	157	5785	16.56	17.00	No
		165	5825	16.43	17.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.



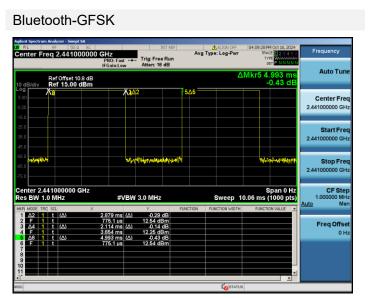
8.2 Bluetooth

	GFSK			π/4-DQPSK	
0	39	78	0	39	78
2402	2441	2480	2402	2441	2480
13.29	13.50	13.01	10.33	10.43	10.05
15.00	15.00	15.00	12.00	12.00	12.00
YES	YES	YES	NO	NO	NO
	8-DPSK			1	
0	39	78	1	1	1
2402	2441	2480	1	1	1
10.39	10.47	10.04	1	1	1
12.00	12.00	12.00	1	1	1
NO	NO	NO	1	1	1
	BLE-1Mbps			BLE-2Mbps	
0	19	39	1	19	38
2402	2440	2480	2404	2440	2478
11.65	11.73	11.04	11.23	11.45	11.03
13.00	13.00	13.00	13.00	13.00	13.00
NO	NO	NO	NO	NO	NO
	2402 13.29 15.00 YES 0 2402 10.39 12.00 NO 0 2402 11.65 13.00	0 39 2402 2441 13.29 13.50 15.00 15.00 YES YES 8-DPSK 0 39 2402 2441 10.39 10.47 12.00 12.00 NO NO BLE-1Mbps 0 19 2402 2440 11.65 11.73 13.00 13.00	0 39 78 2402 2441 2480 13.29 13.50 13.01 15.00 15.00 15.00 YES YES YES 8-DPSK 0 39 78 2402 2441 2480 10.39 10.47 10.04 12.00 12.00 NO NO NO NO BLE-1Mbps 0 19 39 2402 2440 2480 11.65 11.73 11.04 13.00 13.00 13.00	0 39 78 0 2402 2441 2480 2402 13.29 13.50 13.01 10.33 15.00 15.00 12.00 YES YES NO 8-DPSK 0 39 78 / 2402 2441 2480 / 10.39 10.47 10.04 / 12.00 12.00 / / NO NO NO / BLE-1Mbps 0 19 39 1 2402 2440 2480 2404 11.65 11.73 11.04 11.23 13.00 13.00 13.00 13.00	0 39 78 0 39 2402 2441 2480 2402 2441 13.29 13.50 13.01 10.33 10.43 15.00 15.00 12.00 12.00 YES YES NO NO NO NO NO NO 10.39 78 / / 10.39 10.47 10.04 / / 12.00 12.00 / / / NO NO NO / / / NO NO NO / / / BLE-1Mbps BLE-2Mbps BLE-2Mbps 0 19 39 1 19 2402 2440 2480 2404 2440 11.65 11.73 11.04 11.23 11.45 13.00 13.00 13.00 13.00 13.00

Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is \leq $\frac{1}{4}$ dB higher than the primary mode.

The Bluetooth duty cycle is 57.66 % 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.

<u>Duty Cycle</u>



Report No.: BL-SZ2490711-701



9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "BL-SZ2490711-AI EUT internal photo.pdf".



10 TEST RESULT

10.1WIFI 2.4GHz

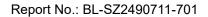
Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.	
Front of Fac	Front of Face													
802.11b	Front Side	10	1	2412	0.05	0.081	14.57	16.00	1.39	93.57	1.069	0.120	/	
802.11b	Front Side	10	6	2437	0.02	0.088	14.52	16.00	1.41	93.57	1.069	0.133	/	
802.11b	Front Side	10	11	2462	0.01	0.095	14.68	16.00	1.36	93.57	1.069	0.138	1#	
Limb														
802.11b	Back Side	0	1	2412	0.11	0.333	14.57	16.00	1.39	93.57	1.069	0.495	/	
802.11b	Back Side	0	6	2437	0.04	0.323	14.52	16.00	1.41	93.57	1.069	0.487	/	
802.11b	Back Side	0	11	2462	0.13	0.355	14.68	16.00	1.36	93.57	1.069	0.516	2#	
Note: Refer t	o ANNEX C fo	r the detaile	ed test data	a for each te	st configurat	ion.								





10.2WIFI 5GHz

Band	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 cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Front of Fa	ace													
	802.11a	Front Side	10	52	5260	-0.14	0.099	16.29	17.00	1.18	65.40	1.529	0.179	/
WIFI5.2	802.11a	Front Side	10	60	5300	0.15	0.111	16.49	17.00	1.13	65.40	1.529	0.192	3#
	802.11a	Front Side	10	64	5320	0.12	0.098	16.35	17.00	1.16	65.40	1.529	0.174	/
Limb														
	802.11a	Back Side	0	52	5260	0.00	0.456	16.29	17.00	1.18	65.40	1.529	0.823	/
WIFI5.2	802.11a	Back Side	0	60	5300	-0.01	0.490	16.49	17.00	1.13	65.40	1.529	0.847	4#
	802.11a	Back Side	0	64	5320	0.15	0.477	16.35	17.00	1.16	65.40	1.529	0.846	/
Front of Fa	Front of Face													
	802.11a	Front Side	10	100	5500	0.11	0.111	16.68	17.00	1.08	65.40	1.529	0.183	/
WIFI5.6	802.11a	Front Side	10	140	5700	0.05	0.120	16.76	17.00	1.06	65.40	1.529	0.194	/
	802.11a	Front Side	10	144	5720	0.17	0.125	16.78	17.00	1.05	65.40	1.529	0.201	5#
Limb					•	•	•		•			•		
	802.11a	Back Side	0	100	5500	-0.01	0.548	16.68	17.00	1.08	65.40	1.529	0.905	/
WIFI5.6	802.11a	Back Side	0	140	5700	0.05	0.546	16.76	17.00	1.06	65.40	1.529	0.885	/
	802.11a	Back Side	0	144	5720	0.02	0.568	16.78	17.00	1.05	65.40	1.529	0.912	6#
Front of Fa	ace	•	•		ľ		I.	l	ľ			l.		
	802.11a	Front Side	10	149	5745	0.12	0.111	16.82	17.00	1.04	65.40	1.529	0.177	7#
WIFI5.8	802.11a	Front Side	10	157	5785	0.07	0.105	16.71	17.00	1.07	65.40	1.529	0.172	/
	802.11a	Front Side	10	165	5825	-0.14	0.088	16.46	17.00	1.13	65.40	1.529	0.152	/
Limb		•												
	802.11a	Back Side	0	149	5745	0.04	0.468	16.82	17.00	1.04	65.40	1.529	0.744	8#
WIFI5.8	802.11a	Back Side	0	157	5785	-0.10	0.450	16.71	17.00	1.07	65.40	1.529	0.736	/
	802.11a	Back Side	0	165	5825	0.09	0.422	16.46	17.00	1.13	65.40	1.529	0.729	/
Note: Refer	r to ANNEX C	for the detailed	test data	for each	test configu	uration.	1	1	ı	1	1	ı	1	ı





10.3Bluetooth

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 cycle Factor	1g Scaled SAR (W/kg)	Meas. No.	
Front of I	Front of Face													
DH5	Front Side	10	39	2441	0.08	0.055	13.50	15.00	1.41	57.66	1.734	0.134	/	
DH5	Front Side	10	0	2402	0.01	0.064	13.29	15.00	1.48	57.66	1.734	0.164	9#	
DH5	Front Side	10	78	2480	-0.02	0.056	13.01	15.00	1.58	57.66	1.734	0.153	/	
Limb														
DH5	Back Side	0	39	2441	0.01	0.155	13.50	15.00	1.41	57.66	1.734	0.379	/	
DH5	Back Side	0	0	2402	0.17	0.174	13.29	15.00	1.48	57.66	1.734	0.447	10#	
DH5	Back Side	0	78	2480	0.17	0.148	13.01	15.00	1.58	57.66	1.734	0.405	/	
Note: Ref	er to ANNEX C	for the det	ailed test d	ata for each	test configura	ation.								



10.4NFC SAR

According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship: E = EIRP - 20log D + 104.8 where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	de f (MHz) Max. E-Field strength (dBuV/m)		D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	50.55	3	6	-38.71

Note:

1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz).

2.ERP= 50.55+20*Log(10) - 104.8 + 6 =-38.71 (dBm)

According to the FCC KDB 447498 D04

Estimated SAR: SAR test =1.6 · Pant / Pth [W/kg]

Estimated SAR	1.6 ·Pant / Pth [W/kg]					
Pmeas.(dBm)	-38.71	0.00013				
Pth.(mW)	443.13					
NFC Estimated 1g SAR [W/kg]	< 0.001					

Tel: +86-755-66850100



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 \leq 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is \leq 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.

For 1g SAR, the highest measured 1g SAR is 0.568 < 0.8 W/kg, repeated measurement is not required.



12 SIMULTANEOUS TRANSMISSION

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

According KDB 447498 D04, simultaneous transmission:

- a) SPLSR = (SAR1 + SAR2)^{A1.5} / R_i (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)² + (y1-y2)² + (z1-z2)²], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.
 - SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition as the first.
- b) If SPLSR ≤ 0.04 , simultaneously transmission SAR measurement is not necessary.
- c) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Transmission Configurations	Front of Face	Limbs	
1	WIFI 2.4G+Bluetooth+NFC	Yes	Yes	
2	WIFI 5G+Bluetooth+NFC	Yes	Yes	

Note:

1. The maximum SAR summation is calculated based on the same configuration and test position.



12.2Sum SAR of Simultaneous Transmission

12.2.1 Front Side Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

State	Position	Stand alone SAR							SUM SAR	
		1	2	3				SUIVI SAR		
		Bluetooth	WLAN	WLAN	WLAN	WLAN	Max.WLAN	Sum SAR	Sum SAR	
			2.4GHz	5.2GHz	5.6GHz	5.8GHz	5GHz	(1+2)	(1+3)	
Front of face	Front Side 5mm	0.164	0.138	0.191	0.201	0.177	0.201	0.302	0.365	

Note:

12.2.2 Limb Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

State Position		Stand alone SAR							SUM SAR	
	Position	1	2		3				JOIN JAK	
	1 OSITION	Bluetooth	WLAN	WLAN	WLAN	WLAN	Max.WLAN	Sum SAR	Sum SAR	
			2.4GHz	5.2GHz	5.6GHz	5.8GHz	5GHz	(1+2)	(1+3)	
Limbs	Back Side 0mm	0.447	0.514	0.847	0.914	0.746	0.914	0.961	1.361	

Note:

Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_S} \left(\frac{SAR_k}{SAR_{\lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field, k}}{MPE_{field, \lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD, k}}{MPE_{PD, \lim}} \right)$$

The maximum SAR value for Simultaneous Transmission is 1.361 [W/kg]. SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds. Therefore, the worst TER =(1.361+0.001)/1.6 = 0.341 < 1, the NFC SAR transmit simultaneously Pass.

^{1:} The highest Summed 10g SAR is 0.365 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

^{1:} The highest Summed 10g SAR is 1.361W/Kg <4.0 W/kg, so Simultaneous Transmission SAR test is not required.



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	2024/05/07	2027/05/06
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronicsr	Speag	DAE4	SN: 1710	2024/01/03	2025/01/02
E-Field Probe	Speag	EX3DV4	SN: 7893	2024/09/05	2025/09/04
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/13
Thermometer	Elitech	RC-4	EF5238001629	2023/10/09	2024/10/08
Thermometer	Elitech	RC-4HC	EF7239002655	2023/11/17	2024/11/16
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1576	N/A	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 a DAK3.5 Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2024.11.06	Head	2450	21.4	1.82	38.96	1.80	39.20	1.11	-0.61
2024.11.06	Head	5250	21.4	4.61	36.72	4.71	35.93	-2.12	2.20
2024.11.07	Head	5600	21.3	5.11	35.77	5.07	35.53	0.79	0.68
2024.11.07	Head	5750	21.3	5.21	35.36	5.22	35.36	-0.19	0.00

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).

Date	Liquid	Freq.	Power	Measured	Normalized SAR	Dipole SAR	Tolerance
	Туре	(MHz)	(mW)	SAR (W/kg)	(W/kg)	(W/kg)	(%)
2024.11.06	Head	2450	100	5.32	53.20	52.60	1.14
2024.11.06	Head	5250	100	7.77	77.70	77.70	0.00
2024.11.07	Head	5600	100	8.18	81.80	81.30	0.62
2024.11.07	Head	5750	100	7.72	77.20	77.60	-0.52
Note: The tolerance limit of System validation ±10%.							



System Performance Check Data (2450MHz)

Date: 2024.11.06

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.819 S/m; ϵ_r = 38.957; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

Probe: EX3DV4 - SN7893; ConvF(6.98, 7.22, 7.4); Calibrated: 2024.09.05;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.15 W/kg

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

Reference Value = 57.84 V/m; Power Drift = -0.04 dB

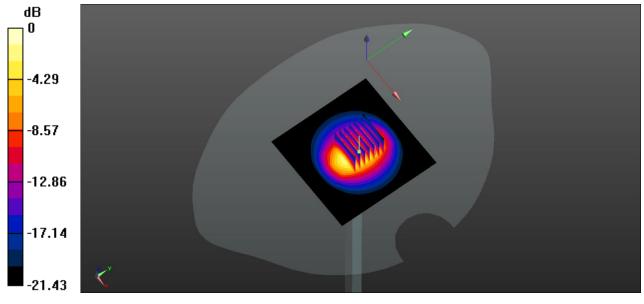
Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.32 W/kg; SAR(10 g) = 2.58 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 6.04 W/kg



0 dB = 6.04 W/kg

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Template No.: TRP-FCC DASY-Body-1 (2024-08-13)



System Performance Check Data (5250MHz)

Date: 2024.11.06

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; σ = 4.688 S/m; ϵ_r = 35.996; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

Probe: EX3DV4 - SN7893; ConvF(5.44, 5.62, 5.76); Calibrated: 2024.09.05;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5200/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.38 W/kg

CW 5200/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.11 V/m; Power Drift = 0.01 dB

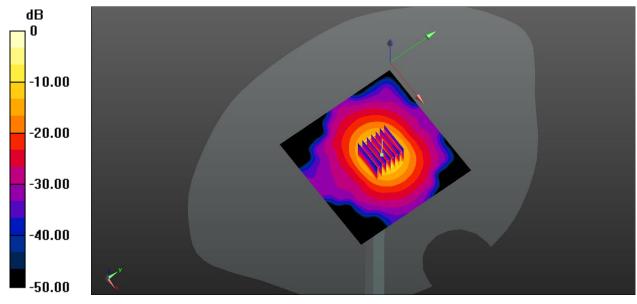
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 19.3 W/kg



0 dB = 19.4 W/kg



System Performance Check Data (5600MHz)

Date: 2024.11.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.111 S/m; ϵ_r = 35.765; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

Probe: EX3DV4 - SN7893; ConvF(4.91, 5.08, 5.2); Calibrated: 2024.09.05;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.24 W/kg

CW 5600/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 34.63 V/m; Power Drift = -0.07 dB

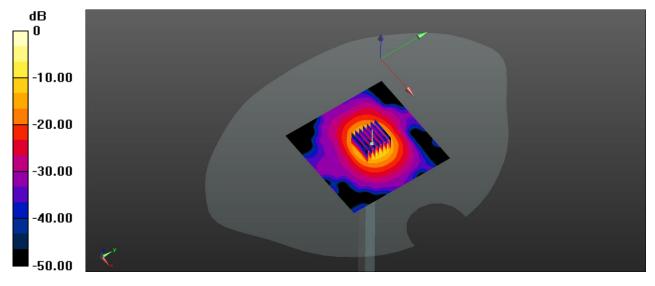
Peak SAR (extrapolated) = 38.58 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7mm

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg

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Template No.: TRP-FCC DASY-Body-1 (2024-08-13)



System Performance Check Data (5750MHz)

Date: 2024.11.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; σ = 5.213 S/m; ϵ_r = 35.356; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

Probe: EX3DV4 - SN7893; ConvF(4.98, 5.15, 5.27); Calibrated: 2024.09.05;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5800/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.94 W/kg

CW 5800/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.24 V/m; Power Drift = -0.06 dB

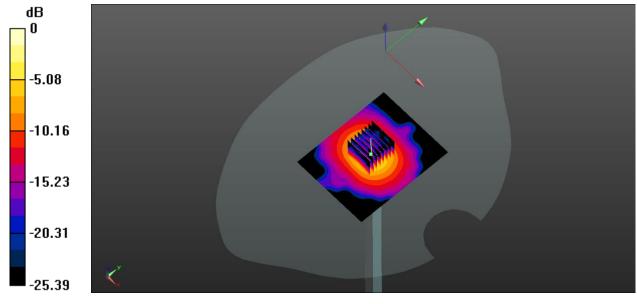
Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.16 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg



ANNEX C TEST DATA

Meas.1 Body Plane with Front Side 10mm on 11 Channel in 802.11b mode

Date: 2024.11.06

Communication System Band: 2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.069

Medium parameters used (interpolated): f = 2462 MHz; σ = 1.834 S/m; ε_r = 38.051; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

Probe: EX3DV4 - SN7893; ConvF(6.98, 7.22, 7.4); Calibrated: 2024.09.05;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1710; Calibrated: 2024.01.03

Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH11/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.122 W/kg

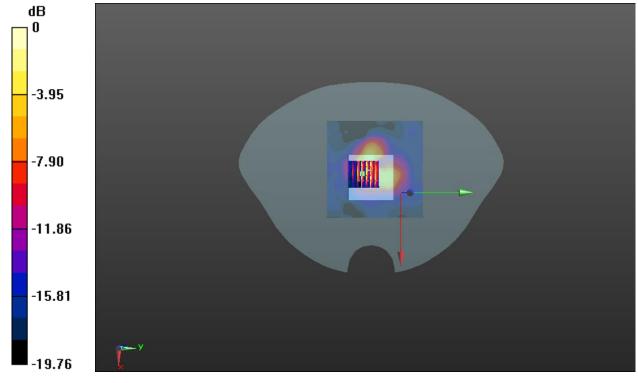
CH11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.207 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.145 W/kg

SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.044 W/kg

Smallest distance from peaks to all points 3 dB below = 5.5mm Ratio of SAR at M2 to SAR at M1 = 56.4% Maximum value of SAR (measured) = 0.115 W/kg



0 dB = 0.115 W/kg



Meas.2 Body Plane with Back Side 0mm on 11 Channel in 802.11b mode

Date: 2024.11.06

Communication System Band: 2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.069

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 1.834 \text{ S/m}$; $\epsilon_r = 38.051$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(6.98, 7.22, 7.4); Calibrated: 2024.09.05;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH11/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.407 W/kg

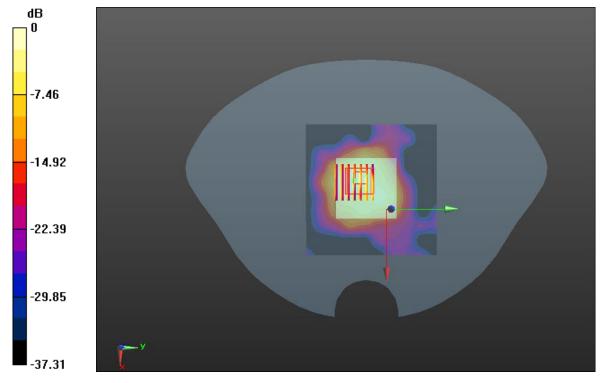
CH11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.490 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.821 W/kg

SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.147 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6mm Ratio of SAR at M2 to SAR at M1 = 51.4% Maximum value of SAR (measured) = 0.524 W/kg



0 dB = 0.524 W/kg



Meas.3 Body Plane with Front Side 10mm on 60 Channel in 802.11a mode

Date: 2024.11.06

Communication System Band: 5.3G; Frequency: 5300 MHz; Duty Cycle: 1:1.529 Medium parameters used: f = 5300 MHz; $\sigma = 4.688$ S/m; $\epsilon_r = 35.996$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(5.44, 5.62, 5.76); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH60/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.182 W/kg

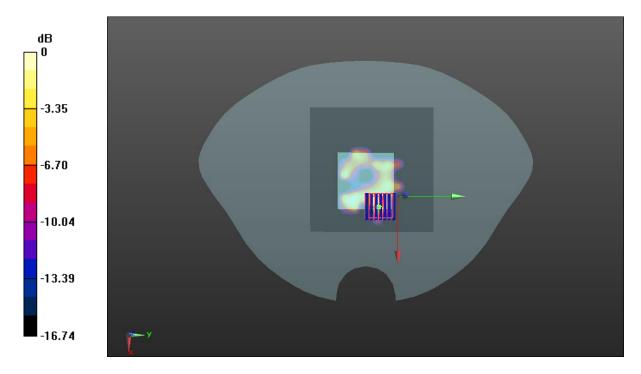
CH60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.574 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.056 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8mm Ratio of SAR at M2 to SAR at M1 = 50.8% Maximum value of SAR (measured) = 0.208 W/kg



0 dB = 0.208 W/kg



Meas.4 Body Plane with Back Side 0mm on 60 Channel in 802.11a mode

Date: 2024.11.06

Communication System Band: 5.3G; Frequency: 5300 MHz; Duty Cycle: 1:1.529 Medium parameters used: f = 5300 MHz; $\sigma = 4.688$ S/m; $\epsilon_r = 35.996$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(5.44, 5.62, 5.76); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH60/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.07 W/kg

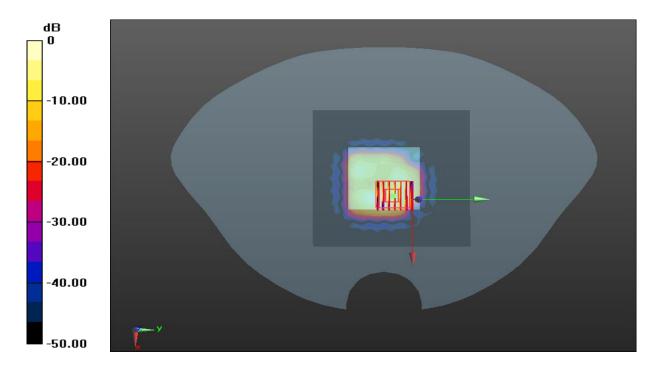
CH60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.072 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.903 W/kg

SAR(1 g) = 0.49W/kg; SAR(10 g) = 0.122 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3mm Ratio of SAR at M2 to SAR at M1 = 55% Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.24 W/kg



Meas.5 Body Plane with Front Side 10mm on 144 Channel in 802.11a mode

Date: 2024.11.07

Communication System Band: 5.6G; Frequency: 5720 MHz; Duty Cycle: 1:1.529

Medium parameters used (interpolated): f = 5720 MHz; σ = 5.348 S/m; ϵ_r = 34.806; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(4.98, 5.15, 5.27); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH144/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.251 W/kg

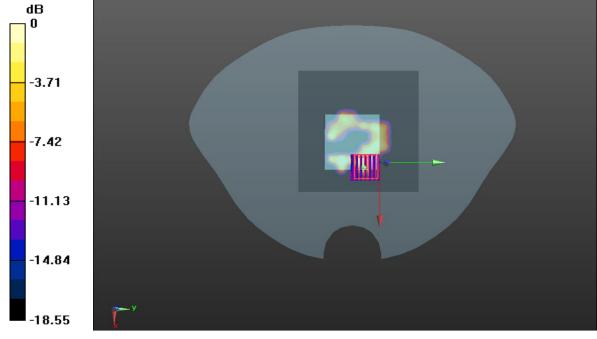
CH144/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.38 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.058 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4mm Ratio of SAR at M2 to SAR at M1 = 49.5% Maximum value of SAR (measured) = 0.258 W/kg





Meas.6 Body Plane with Back Side 0mm on 144 Channel in 802.11a mode

Date: 2024.11.07

Communication System Band: 5.6G; Frequency: 5720 MHz; Duty Cycle: 1:1.529

Medium parameters used (interpolated): f = 5720 MHz; σ = 5.348 S/m; ϵ_r = 34.806; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(4.98, 5.15, 5.27); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH144/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.30 W/kg

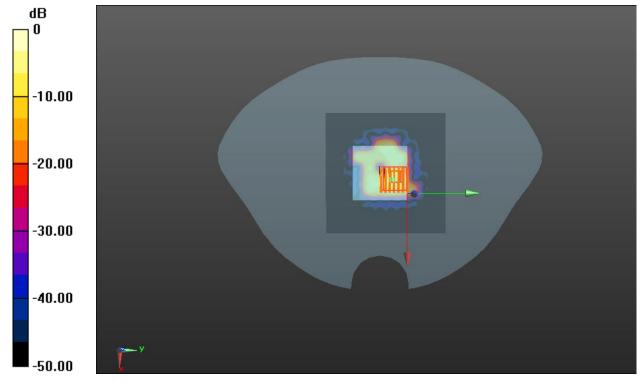
CH144/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6mm Ratio of SAR at M2 to SAR at M1 = 49.7% Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg



Meas.7 Body Plane with Front Side 10mm on 149 Channel in 802.11a mode

Date: 2024.11.07

Communication System Band: 5.8G; Frequency: 5745 MHz; Duty Cycle: 1:1.529

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.043 S/m; ϵ_r = 35.383; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(4.98, 5.15, 5.27); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH149/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.175 W/kg

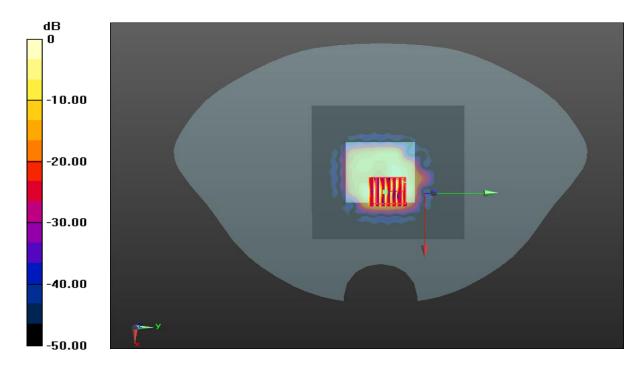
CH149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.83 V/m; Power Drift =0.12 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.058 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1mm Ratio of SAR at M2 to SAR at M1 = 51.2% Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.167 W/kg



Meas.8 Body Plane with Back Side 0mm on 149 Channel in 802.11a mode

Date: 2024.11.07

Communication System Band: 5.8G; Frequency: 5745 MHz; Duty Cycle: 1:1.529

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.043 S/m; ϵ_r = 35.383; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2℃ Liquid Temperature:21.3℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(4.98, 5.15, 5.27); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH149 2/Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 2.65 W/kg

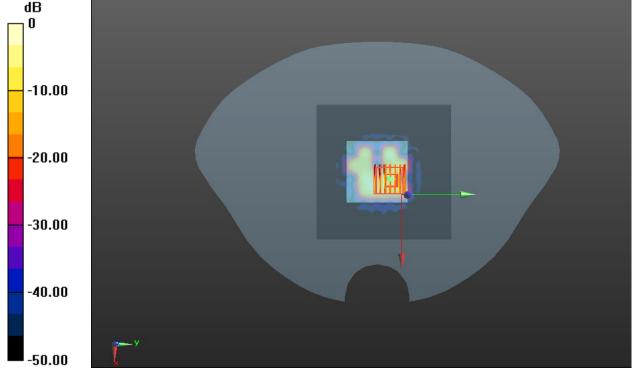
CH149 2/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.128 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9mm Ratio of SAR at M2 to SAR at M1 = 47.4% Maximum value of SAR (measured) = 1.35 W/kg



0 dB =1.35 W/kg



Meas.9 Body Plane with Front Side 10mm on 0 Channel in Bluetooth mode

Date: 2024.11.06

Communication System Band: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.734

Medium parameters used (interpolated): f = 2402 MHz; σ = 1.713 S/m; ϵ_r = 40.001; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(6.98, 7.22, 7.4); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH39/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.0837 W/kg

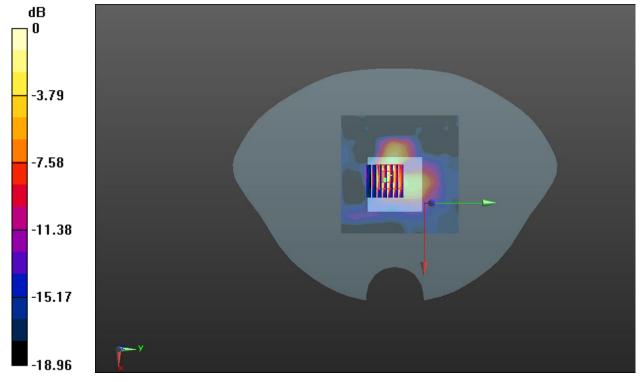
CH39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.052 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.112 W/kg

SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.029 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3mm Ratio of SAR at M2 to SAR at M1 = 45.4% Maximum value of SAR (measured) = 0.0765 W/kg



0 dB = 0.0765 W/kg

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Template No.: TRP-FCC DASY-Body-1 (2024-08-13)



Meas.10 Body Plane with Back Side 0mm on 0 Channel in Bluetooth mode

Date: 2024.11.06

Communication System Band: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.734

Medium parameters used (interpolated): f = 2402 MHz; σ = 1.713 S/m; ϵ_r = 40.001; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3℃ Liquid Temperature:21.4℃

DASY5 Configuration:

- Probe: EX3DV4 SN7893; ConvF(6.98, 7.22, 7.4); Calibrated: 2024.09.05;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1710; Calibrated: 2024.01.03
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1576
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CH39/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.376 W/kg

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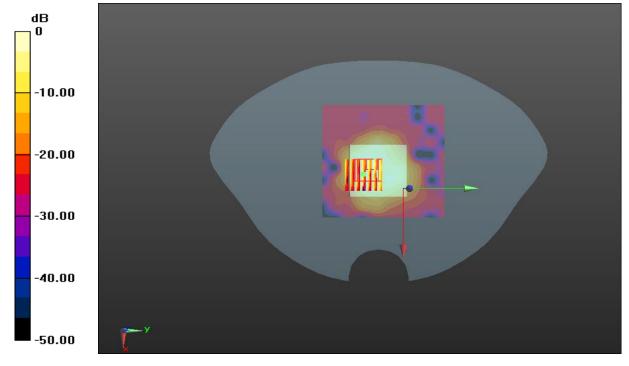
CH39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.853 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.376 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.068 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2mm Ratio of SAR at M2 to SAR at M1 = 46.7% Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2490711-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2490711-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ2490711-AC.pdf".

ANNEX G TUNE-UP PROCEDURE

Please refer the document "BL-SZ2490711-AT.pdf".

Report No.: BL-SZ2490711-701



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