

TEST REPORT

Applicant: MobileDemand, LC

1501 Boyson Square Drive, Suite 101, Hiawatha, Address:

Iowa, 52233 United States

Equipment Type: Tablet

FLEX 12B **Model Name:**

Brand Name: MobileDemand

FCC ID: O86-FLEX12B

FCC 47 CFR Part 2.1093 **Test Standard:**

(refer to section 3.1)

Maximum SAR: Body 6GHz(1 g): 0.46 W/kg

Sample Arrival Date: Dec. 11, 2023

Test Date: Dec. 11, 2023 - Dec. 20, 2023

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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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Xu Rui

Tolon In



Revision History

Version

Issue Date

Revisions Content

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Initial Issue

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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.		
Name	Sherizhen Balon Technology Co., Ltd.		
	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi		
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.		
Location	China		
	☐ 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	MobileDemand, LC
Address	1501 Boyson Square Drive, Suite 101, Hiawatha, Iowa, 52233 United
Address	States

2.2 Manufacturer Information

	Manufacturer	MobileDemand, LC		
	Address	1501 Boyson Square Drive, Suite 101, Hiawatha, Iowa, 52233 United		
	Address	States		

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet
Model Name Under Test	FLEX 12B
Series Model Name	N/A
Description of Model	N/A
Name Differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Note: Not application.



2.5 Technical Information

Network and Wireless	CC MIEL 002 44 - 002 44 - 001 44 - 001 14 - 001 15 - 001	
connectivity	6G WIFI 802.11a, 802.11ax(HE20/40/80/160), U-NII-5/6/7/8	

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

Operating Mode	6G WLAN			
	000 44-	5925 MF	5925 MHz ~ 6425 MHz	
Eroguanay Panga	802.11a	6425 MF	6425 MHz ~ 6525 MHz	
Frequency Range	/ax(HE20/HE40/HE 80/HE160)	6525 MHz ~ 6875 MHz		
		6875 MHz ~ 7125 MHz		
Antenna Type	FPC Antenna			
Hotspot Function	N/A			
Exposure Category	General Population/Uncontrolled exposure			
Product Type	Portable Device	Portable Device		
EUT Type	☑ 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	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01	
4	FCC KDB 865664 D02 v01r02	RF Exposure Reporting	
5	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters	
6	KDB 616217 D04v01r02	SAR for laptop and tablets	
7	IEC/IEEE 62209- 1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)	



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 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	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.

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3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

			Maximum	Maximum
Equipment	Band	Antenna	Scaled SAR	Report SAR
Class	Dand	Antenna	(W/kg)	(W/kg)
			Body (0mm)	Body (0mm)
U-NII-5/6/7/8	6G WLAN	1	0.37	0.46
U-INII-5/0/1/6	6G WLAN	2	0.46	0.46
Limit (W/kg)			1.60	
Verdict			Pass	

3.3.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment Class	Maximum Scaled SAR
	(W/kg) Body (0mm)
NII	0.83
Limit (W/kg)	1.6
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 0.46 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

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

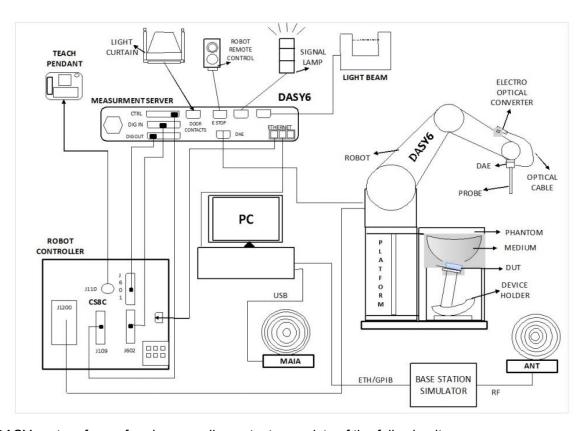
Where: σ is the conductivity of the tissue,

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 DASY 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 DASY measurement server.
- 6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
- 7. DASY 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- SN: 7607 with following specifications is used.

Construction Symmetrical design with triangular core Built-in optical fiber for surface detection system

Built-in shielding against static charges PEEK enclosure material (resistant to organic

solvents, e.g., glycolether)

Calibration ISO/IEC 17025 calibration service available

Frequency 4 MHz to 10 GHz; Linearity: ± 0.2 dB

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 IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 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.

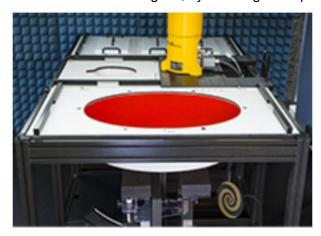


- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB



4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI V8.0 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI V8.0 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

Photo of Phantom SN2159



Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis(mm)
SN 2159 ELI V8.0	2.0 ± 0.2	600	400



4.2.6 Device Holder

The DASY 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.

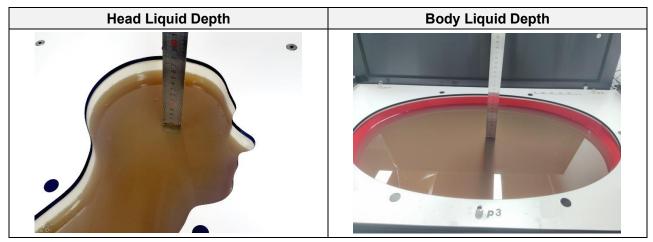


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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.

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



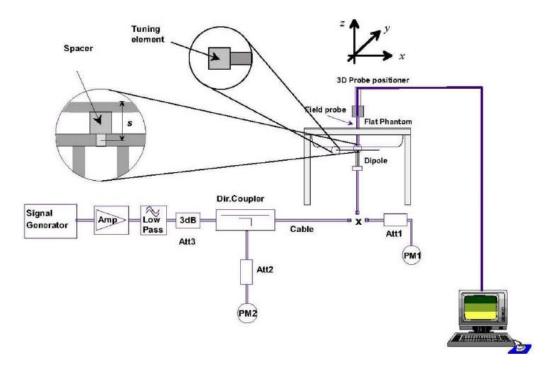
5 SYSTEM VERIFICATION

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:

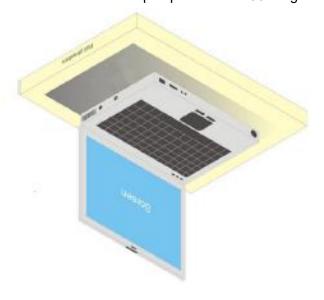




6 TEST POSITION CONFIGURATIONS

6.1 Laptop Exposure Condition

This DUT should consider one position which is bottom of laptop touching with phantom 0 mm air gap and the screen portion of the device shall be an open position at a 90° angle.





6.2 Tablet Exposure Condition

This DUT was tested in four different positions. They are back side, left edge, right edge and top edge in these positions, the surface of DUT is touching with phantom 0mm.

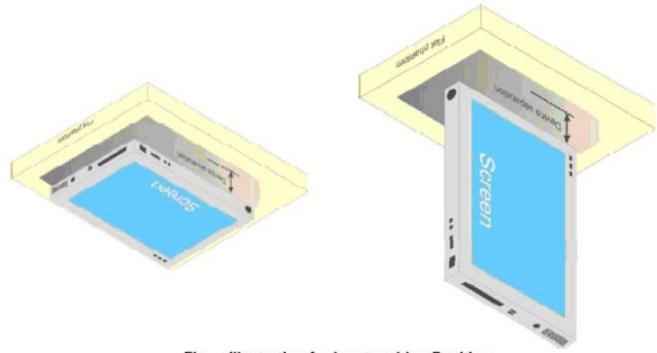
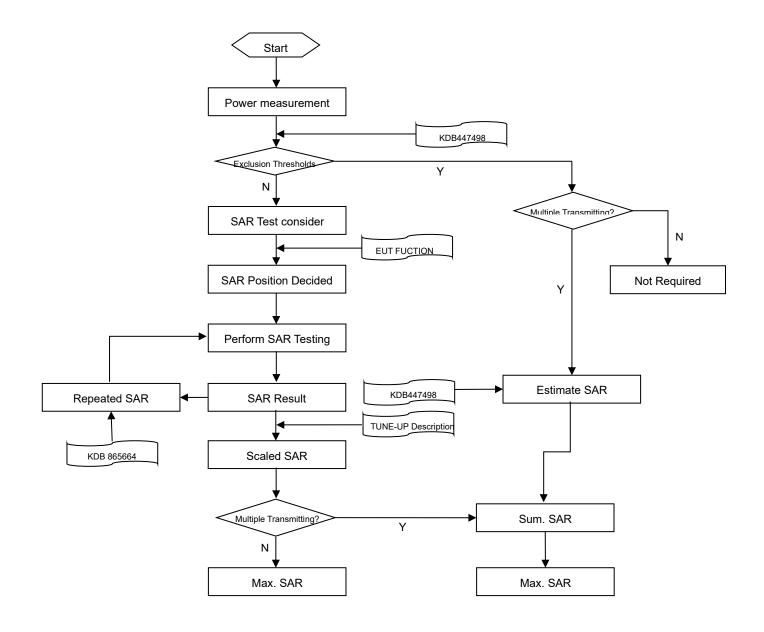


Fig Illustration for Lap-touching Position



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	
(geometric center of prob		·			
Maximum probe angle fro	•	is 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	tial resolutior	n: Δx Area , Δy 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.		
Mayimum zaam aaan and	atial recolution	on: Av Zoom Av Zoom	≤ 2 GHz: ≤ 8 mm	3–4 GHz: ≤ 5 mm*	
Maximum zoom scan spa	aliai resolulio	л. дх 20011, ду 20011	2 –3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm*	
				3–4 GHz: ≤ 4 mm	
	uniform grid: Δz Zoom (n)		≤ 5 mm	4–5 GHz: ≤ 3 mm	
Maximum zoom scan				5–6 GHz: ≤ 2 mm	
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	
Joan Volumo				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.

7.5 Interim Procedures for WLAN 6E

Interim procedures for FCC radio frequency (RF) exposure evaluations of U-NII 6-7 GHz band portable devices have been made available during the TCB workshop in April 2021. The procedure is summarized below:

- a. Evaluate SAR / APD with DASY6 Module SAR V16.0 or higher. The configurations to be tested are defined in the relevant Knowledge Database (KDB). The psSAR and absorbed psPD are reported.
- b. 2. For the configuration with the highest SAR, evaluate the incident power density with DASY6 Module mmWave V2.4.2 or higher. The incident psPD must be adjusted per amount that the measurement uncertainty exceeds 30% before it is included in the test report.



8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 6G WIFI (Antenna 1)

Band	Mada	Ob	Freq.	Average Power	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	(dBm)	Limit (dBm)	Require.
		1	5955	0.75	2.00	No
		45	6175	1.09	2.00	No
		93	6415	0.60	2.00	No
		97	6435	0.58	2.00	No
		105	6475	0.67	2.00	No
	000 44 (11500)	113	6515	0.93	2.00	No
	802.11ax(HE20) (SU)	117	6535	0.90	2.00	No
	(30)	149	6695	1.24	2.00	No
		181	6855	1.25	2.00	No
		185	6875	1.01	2.00	No
		189	6895	1.24	2.00	No
		209	6995	0.79	2.00	No
		233	7115	0.60	1.00	No
		3	5965	3.24	5.00	No
		51	6205	3.74	5.00	No
		91	6405	3.32	5.00	No
6		99	6445	3.42	5.00	No
(5.925~7.12		107	6485	3.67	5.00	No
5)		115	6525	3.80	5.00	No
	802.11ax(HE40) (SU)	123	6565	3.91	5.00	No
	(30)	147	6685	4.00	5.00	No
		179	6845	3.98	5.00	No
		187	6885	3.95	5.00	No
		195	6925	3.94	5.00	No
		211	7005	3.77	5.00	No
		227	7085	3.78	5.00	No
		7	5985	6.55	7.00	No
		55	6225	6.57	7.00	No
	[87	6385	6.25	7.00	No
	000 44 (17-00)	103	6465	6.33	7.00	No
	802.11ax(HE80) (SU)	119	6545	6.58	7.00	No
	(30)	135	6625	6.43	7.00	No
	 	151	6705	6.59	7.00	No
		167	6785	7.02	8.00	No
	<u> </u>	183	6865	6.58	7.00	No



		199	6945	6.70	7.00	No
		215	7025	6.67	7.00	No
		15	6025	8.80	10.00	Yes
		47	6185	8.92	10.00	Yes
	802.11ax(HE160) (SU)	79	6345	8.55	10.00	Yes
		111	6505	8.67	10.00	Yes
		143	6665	8.82	10.00	Yes
		175	6825	9.40	10.00	Yes
		207	6985	8.69	10.00	Yes

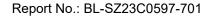
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

¹⁾ The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.



8.1.2 6G WIFI(Antenna 2)

Band		01 1	Freq.	Average Power	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	(dBm)	Limit (dBm)	Require.
		1	5955	0.74	2.00	No
		45	6175	0.78	2.00	No
		93	6415	0.94	2.00	No
		97	6435	1.04	2.00	No
		105	6475	1.04	2.00	No
		113	6515	1.36	2.00	No
	802.11ax(HE20) (SU)	117	6535	1.16	2.00	No
	(30)	149	6695	1.16	2.00	No
		181	6855	1.29	2.00	No
		185	6875	1.30	2.00	No
		189	6895	1.27	2.00	No
	[209	6995	1.20	2.00	No
		233	7115	-0.53	1.00	No
		3	5965	3.05	5.00	No
		51	6205	3.29	5.00	No
		91	6405	3.30	5.00	No
		99	6445	3.53	5.00	No
		107	6485	3.56	5.00	No
6		115	6525	3.79	5.00	No
(5.925~7.12	802.11ax(HE40) - (SU) -	123	6565	3.70	5.00	No
5)	(30)	147	6685	3.47	5.00	No
		179	6845	3.47	5.00	No
		187	6885	3.76	5.00	No
		195	6925	3.70	5.00	No
		211	7005	3.59	5.00	No
		227	7085	3.84	5.00	No
		7	5985	5.95	7.00	No
		55	6225	6.10	7.00	No
		87	6385	6.09	7.00	No
		103	6465	6.19	7.00	No
	000 44 (UE00)	119	6545	6.38	7.00	No
	802.11ax(HE80) - (SU) -	135	6625	6.10	7.00	No
	(30)	151	6705	5.99	7.00	No
	[167	6785	6.41	8.00	No
	[183	6865	6.10	7.00	No
	[199	6945	6.23	7.00	No
		215	7025	6.34	7.00	No
	802.11ax(HE160)	15	6025	8.49	10.00	Yes
	(SU)	47	6185	8.31	10.00	Yes





79	6345	8.32	10.00	Yes
111	6505	8.85	10.00	Yes
143	6665	8.50	10.00	Yes
175	6825	9.10	10.00	Yes
207	6985	8.82	10.00	Yes

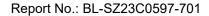
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.



8.1.3 6G WIFI (MIMO)

Band			Freq.	Average Power	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	(dBm)	Limit (dBm)	Require.
		1	5955	3.76	5.00	No
		45	6175	3.95	5.00	No
		93	6415	3.78	5.00	No
		97	6435	3.83	5.00	No
		105	6475	3.87	5.00	No
		113	6515	4.16	5.00	No
	802.11ax(HE20) (SU)	117	6535	4.04	5.00	No
	(50)	149	6695	4.21	5.00	No
		181	6855	4.28	5.00	No
		185	6875	4.17	5.00	No
		189	6895	4.27	5.00	No
		209	6995	4.01	5.00	No
		233	7115	3.08	4.00	No
		3	5965	6.16	8.00	No
		51	6205	6.53	8.00	No
		91	6405	6.32	8.00	No
	802.11ax(HE40)	99	6445	6.49	8.00	No
		107	6485	6.63	8.00	No
6		115	6525	6.81	8.00	No
(5.925~7.12		123	6565	6.82	8.00	No
5)	(SU)	147	6685	6.75	8.00	No
		179	6845	6.74	8.00	No
		187	6885	6.87	8.00	No
		195	6925	6.83	8.00	No
		211	7005	6.69	8.00	No
		227	7085	6.82	8.00	No
		7	5985	9.27	10.00	No
		55	6225	9.35	10.00	No
		87	6385	9.18	10.00	No
		103	6465	9.27	10.00	No
	000 44 (UE00)	119	6545	9.49	10.00	No
	802.11ax(HE80) (SU)	135	6625	9.28	10.00	No
	(30)	151	6705	9.31	10.00	No
	[167	6785	9.74	11.00	No
	[183	6865	9.36	10.00	No
		199	6945	9.48	10.00	No
		215	7025	9.52	10.00	No
	802.11ax(HE160)	15	6025	11.66	13.00	No
	(SU)	47	6185	11.64	13.00	No





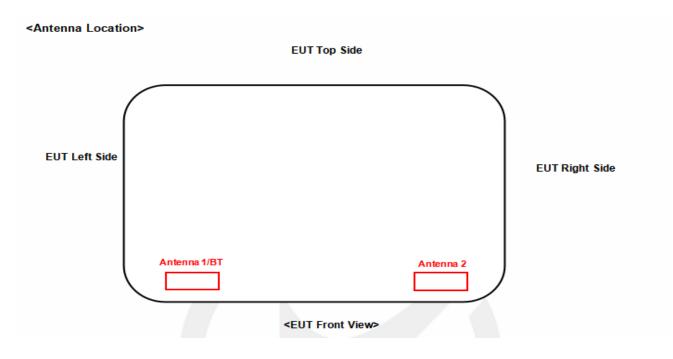
79	6345	11.45	13.00	No
111	6505	11.77	13.00	No
143	6665	11.67	13.00	No
175	6825	12.26	13.00	No
207	6985	11.77	13.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.



9 TEST EXCLUSION CONSIDERATION

9.1 Tablet Mode antenna location sketch



Antenna	Support Bands
Antenna 1	WLAN6G
Antenna 2	WLAN6G

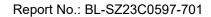


10 TEST RESULT

10.1WIFI 6GHz

10.1.1 WIFI 6GHz SAR

Fre. Band	Mode	Test State	Antenna	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)	Measured APD W/m2	Scaled APD W/m2	Meas.
Войу				Front Side	0	175	6825	0.03	0.156	9.40	10.00	1.148	85.71	1.167	0.209	0.656	0.879	/
				Back	0	175	6825	0.01	0.000	9.40	10.00	1.148	85.71	1.167	0.000	0.000	0.000	/
				Left Edge	0	175	6825	0.04	0.024	9.40	10.00	1.148	85.71	1.167	0.032	0.133	0.178	/
				Right Edge	0	175	6825	-0.15	0.017	9.40	10.00	1.148	85.71	1.167	0.023	0.056	0.075	/
				Top Edge	0	175	6825	0.03	0.000	9.40	10.00	1.148	85.71	1.167	0.000	0.000	0.000	/
	802.11		1	Bottom Edge	0	175	6825	0.09	0.036	9.40	10.00	1.148	85.71	1.167	0.048	0.167	0.224	/
		Tablet		Front Side	0	15	6025	-0.09	0.096	8.80	10.00	1.318	85.71	1.167	0.148	0.485	0.746	/
6G				Front Side	0	47	6185	0.02	0.067	8.92	10.00	1.282	85.71	1.167	0.100	0.345	0.516	/
66	ax (HE160)			Front Side	0	79	6345	-0.09	0.071	8.55	10.00	1.396	85.71	1.167	0.116	0.388	0.632	/
				Front Side	0	111	6505	-0.07	0.238	8.67	10.00	1.358	88.24	1.133	0.366	1.170	1.800	1#
				Front Side	0	143	6665	-0.01	0.034	8.82	10.00	1.312	85.71	1.167	0.052	0.188	0.288	/
				Front Side	0	207	6985	0.00	0.019	8.69	10.00	1.352	85.71	1.167	0.030	0.103	0.163	/
				Front Side	0	175	6825	-0.03	0.144	9.10	10.00	1.230	85.29	1.172	0.208	0.556	0.802	/
		Tablet	2	Back Side	0	175	6825	0.02	0.038	9.10	10.00	1.230	85.29	1.172	0.055	0.174	0.251	/
			blet 2	Left Edge	0	175	6825	0.06	0.000	9.10	10.00	1.230	85.29	1.172	0.000	0.000	0.000	/
				Right Edge	0	175	6825	0.03	0.004	9.10	10.00	1.230	85.29	1.172	0.006	0.023	0.033	/





				Top Edge	0	175	6825	0.04	0.000	9.10	10.00	1.230	85.29	1.172	0.000	0.000	0.000	/
				Bottom Edge	0	175	6825	0.06	0.000	9.10	10.00	1.230	85.29	1.172	0.000	0.000	0.000	/
				Front Side	0	15	6025	0.03	0.233	8.49	10.00	1.416	85.71	1.167	0.385	1.050	1.735	/
				Front Side	0	47	6185	0.02	0.268	8.31	10.00	1.476	85.71	1.167	0.462	1.190	2.050	2#
				Front Side	0	79	6345	0.01	0.122	8.32	10.00	1.472	85.71	1.167	0.210	0.565	0.971	/
				Front Side	0	111	6505	-0.01	0.276	8.85	10.00	1.303	85.29	1.172	0.421	1.110	1.695	/
				Front Side	0	143	6665	0.04	0.227	8.50	10.00	1.413	85.71	1.167	0.374	0.322	0.531	/
				Front Side	0	207	6985	-0.04	0.152	8.82	10.00	1.312	85.29	1.172	0.234	0.635	0.976	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.



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: For 1g SAR, the highest measured 1g SAR is 0.276< 0.80 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 Tx Combination	Body
1	WLAN 6GHz (Antenna 1) + WLAN 6GHz (Antenna 2)	Yes



12.2Sum SAR of Simultaneous Transmission

12.2.1 Body Simultaneous Transmission SAR Evaluation for WLAN Antenna

			Stand ale	one SAR	CLIM CAD						
State	Po	sition	1	2	SUM SAR						
State	1 0.	Silion	WLAN 6GHz	WLAN 6GHz	Sum SAR						
			(Antenna 1)	(Antenna 2)	(1+2)						
Body	Tablet	Front Side	0.366	0.462	0.828						
Body	Tablet	Back Side	0.000	0.055	0.055						
Body	Tablet	Left Edge	0.032	0.000	0.032						
Body	Tablet	Right Edge	0.023	0.006	0.029						
Body	Tablet	Top Edge	0.000	0.000	0.000						
Body	Tablet	Bottom Edge	0.048	0.000	0.048						
Note: 1: The hig	Note: 1: The highest Summed 1g SAR is 0.828W/Kg < 1.6 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	DASY6	16.0.0.116	N/A	N/A
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2021/07/01	2024/07/01
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/03
Data Acquisition Electronicsr	Speag	DAE4	SN: 878	2023/03/23	2024/03/22
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/09
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/04
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	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 (%)	
2023.12.20	Head	6500	21.6	6.07	34.46	6.07	34.46	0.00	0.00	
Note: The tolerance limit of Conductivity and Permittivity is± 5%.										

Report No.: BL-SZ23C0597-701



ANNEX B SYSTEM CHECK RESULT

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

Data	Liquid	Freq.	Power	Measured	Normalized SAR	Dipole SAR	Tolerance		
Date	Туре	(MHz)	(mW)	SAR (W/kg)	(W/kg)	(W/kg)	(%)		
2023.12.20	Head	6500	100	29.50	295.00	286.00	3.15		
Note: The tolerance limit of System validation ±10%.									



System Performance Check Data (6500MHz)

Device under Test Properties

Model, Manufacturer Dimensions [mm] DUT Type
D6.5GHzV2, SPEAG 10.0 x 10.0 x 3.0 Dipole

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversion	TSL	TSL	Ambient	Liquid
Section, TSL	Test		UID	[MHz],	Factor	Conductivity	Permittivity	Temperatur	Temperatur
	Distance			Channel		[S/m]		е	е
	[mm]			Number				[℃]	[℃]
Flat,		Validatio	CW,	6500.0,	5.38	6.07	34.5	22.5	21.6
HSL		n band	0	6500					

Hardware Setup

 Phantom
 TSL, Measured Date
 Probe, Calibration Date
 DAE, Calibration Date

 ELI V8.0 (20deg probe tilt) HBBL-600-10000
 2023-12-20
 EX3DV4 - SN7607, 2023-07-04
 DAE4 Sn878, 2023-03-23

2159

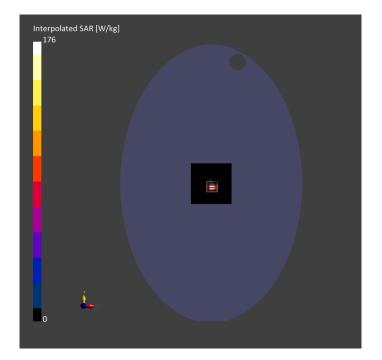
Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0	Date	2023-12-20	2023-12-20
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	psSAR1g [W/kg]	29.3	29.5
Sensor Surface	3.0	1.4	psSAR10g [W/kg]	5.17	5.33
[mm]			Power Drift [dB]	-0.11	0.06
Graded Grid	Yes	Yes	Power Scaling	Disabled	Disabled
Grading Ratio	1.5	1.4	Scaling Factor		
MAIA	N/A	N/A	[dB]		
Surface Detection	All points	All points	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		49.7
			Dist 3dB		4.6

PPeak [mm]

Web: www.titcgroup.com Template No.: TRP-FCC DASY-Body-2 (2023-01-30)







ANNEX C TEST DATA

Meas.1 Body Plane with Front Side 0mm on 111 Channel in IEEE802.11ax160 Mode with Antenna 1 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Device,	285.0 x 185.0 x 8.0	Tablet

Exposure Conditions

Phanto	Position	Ban	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test	d	,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[°C]
Flat,	FRONT,	U-	WLAN,	6505.0,	5.38	6.11	34.4	22.5	21.6
HSL	0.00	NII-6	10755-	111					
			AAC						

Hardware Setup

Phantom	TSL, Measured Da	nte	Probe, Calibration Date	DAE, Calibration Date		
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000	2023-12-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23		
2159						

Scan Setup

Measurement Results

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	102.0 x 102.0	27.2 x 27.2 x 22.0	Date	2023-12-20	2023-12-20
[mm]				psSAR1g	0.209	0.238
Grid Ste	eps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
Sensor	Surface	3.0	1.4	psSAR10g	0.045	0.048
[mm]				[W/kg]		
Graded	Grid	Yes	Yes	APD 4cm ²		1.17
Grading	Ratio	1.5	1.4	[W/m ²]		
MAIA		Υ	Υ	Power Drift [dB]	-0.10	-0.07
Surface		VMS + 6p	VMS + 6p	Power Scaling	Disabled	Disabled
Detection	on			Scaling Factor		
Scan M	ethod	Measured	Measured	[dB]		
				TSL Correction	No correction	No correction
				M2/M1 [%]		41.6
				Dist 3dB Peak		3.8
				[mm]		

Tel: +86-755-66850100

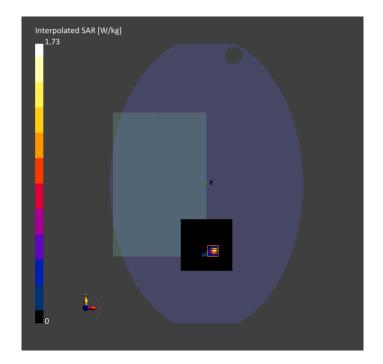
E-mail: qc@baluntek.com

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Web: www.titcgroup.com

Template No.: TRP-FCC DASY-Body-2 (2023-01-30)







Meas.2 Body Plane with Front Side 0mm on 47 Channel in IEEE802.11ax160 Mode with Antenna 2 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Device,	285.0 x 185.0 x 8.0	Tablet

Exposure Conditions

Phanto	Position	Ban	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test	d	,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[°C]
Flat,	BACK,	U-	WLAN,	6185.0,	5.38	5.79	34.0	22.5	21.6
HSL	0.00	NII-5	10755-	47					
			AAC						

Hardware Setup

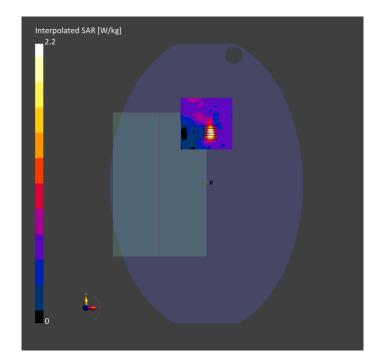
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 2023-12-20	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23
2150			

Scan Setup

Measurement Results

oun outup					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	102.0 x 102.0	27.2 x 27.2 x 22.0	Date	2023-12-20	2023-12-20
[mm]			psSAR1g	0.250	0.268
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.075	0.049
[mm]			[W/kg]		
Graded Grid	Yes	Yes	APD 4cm ²		1.19
Grading Ratio	1.5	1.4	[W/m ²]		
MAIA	Υ	N/A	Power Drift [dB]	-0.01	0.02
Surface	VMS + 6p	VMS + 6p	Power Scaling	Disabled	Disabled
Detection			Scaling Factor		
Scan Method	Measured	Measured	[dB]		
			TSL Correction	No correction	No correction
			M2/M1 [%]		39.4
			Dist 3dB Peak		2.7
			[mm]		







ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ23C0597-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ23C0597-AS-1.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ23C0597-AC-1.pdf".

ANNEX G TUNE-UP PROCEDURE

Please refer the document "BL-SZ23C0597-AT-1.pdf".



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