Page **1** of **45** FCC ID: 2AZNS-R0782

SAR TEST REPORT

For

InkBOOK Europe Sp.z o.o.

Focus Plus and Focus Color

Test Model: R0782

Additional Model No.: Please Refer to Page 8

Prepared for : InkBOOK Europe Sp.z o.o.

Address : Aleksandra Ostrowskiego 7,53238 Wroclaw, Poland

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park

Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,

Report No.: LCSA09304086EB

518000, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : October 08, 2024

Number of tested samples : '

Sample number : A240912098-1 Serial number : Prototype

Date of Test : October 08, 2024 ~October 18, 2024

Date of Report : October 19, 2024









Page 2 of 45

FCC ID: 2AZNS-R0782

SAR TEST REPORT Report Reference No.....: LCSA09304086EB Date Of Issue...... October 19, 2024 Testing Laboratory Name....: Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Address....:: Street, Baoan District, Shenzhen, 518000, China Testing Location/ Procedure: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method InkBOOK Europe Sp.z o.o. Applicant's Name: Aleksandra Ostrowskiego 7,53238 Wroclaw, Poland Address: **Test Specification:** Standard....: FCC 47CFR §2.1093, ANSI/IEEE C95.1-2019, IEEE 1528-2013 Test Report Form No..... TRF-4-E-102 A/0 Master TRF: Dated 2014-09 Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes noresponsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test Item Description.: Focus Plus and Focus Color Trade Mark: **InkBOOK** Model/Type Reference: R0782 Input: 5V-2A, 5V-3A Ratings:

Compiled by:

Result:

Supervised by:

Battery: DC 3.7V, 2900mAh

Positive

Approved by:

Report No.: LCSA09304086EB

Jayzhan

Jay Zhan/ File administrators

Cary Luo / Technique principal

Gavin Liang/ Manager













ge **3** of **45** FCC ID: 2AZNS-R0782

SAR -- TEST REPORT

Report No.: LCSA09304086EB

Test Report No.:

LCSA09304086EB

October 19, 2024
Date of issue

: Focus Plus and Focus Color

 Type/Model
 : R0782

 Applicant.....
 : InkBOOK Europe Sp.z o.o.

Address : Aleksandra Ostrowskiego 7,53238 Wroclaw,Poland

Telephone.....: : / Fax.....: : /

EUT.....

Manufacturer.....: InkBOOK Europe Sp.z o.o.

Address.....: : Aleksandra Ostrowskiego 7,53238 Wroclaw,Poland

Telephone.....: : / Fax.....: : /

Factory.....: Yingtang Precision Technology Co., Ltd.

Address...... : Building#1, Jiancang Science Park, Songgang, Baoan District,

Shenzhen, 518105, China

Telephone.....: : /

Fax.....: 1

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.













Page 4 of 45

FCC ID: 2AZNS-R0782

Revison History

Revision	Issue Date	Revision Content	Revised By
000	October 19, 2024	Initial Issue	

Report No.: LCSA09304086EB





TABLE OF CONTENTS

Report No.: LCSA09304086EB

1. TES	T STANDARDS AND TEST DESCRIPTION	A State of the state of 1 and 1 and	6
1.1.	STATEMENT OF COMPLIANCE	1/27 rcs.	6
1.2.	TEST LOCATION		
1.3.	TEST FACILITY		
1.4.	TEST LABORATORY ENVIRONMENT		
1.5.	PRODUCT DESCRIPTION		
1.6.	DUT ANTENNA LOCATIONS		
1.7.	TEST SPECIFICATION		
1.8.	RF EXPOSURE LIMITS		
1.9.	EQUIPMENT LIST		
2. SAR	R MEASUREMENTS SYSTEM CONFIGURATION		
2.1.	SAR MEASUREMENT SYSTEM	# 127.14	14
2.2.			
	DATA ACQUISITION ELECTRONICS (DAE)		
2.4.			
2.5.	ELI PHANTOM		18
2.6.	DEVICE HOLDER FOR TRANSMITTERS		19
2.7.	MEASUREMENT PROCEDURE		
3. SAR	R MEASUREMENT VARIABILITY		24
3.1	SAR MEASUREMENT VARIABILITY		24
3.2.	SAR MEASUREMENT UNCERTAINTY		
4. DES	SCRIPTION OF TEST POSITION		25
4.1.	TEST POSITIONS CONFIGURATION		25
5 SAD	R SYSTEM VERIFICATION PROCEDURE		Till in 26
	TISSUE SIMULATE LIQUID		
	SAR SYSTEM CHECK		
6. SAR	R MEASUREMENT PROCEDURE		31
6.1.	CONDUCTED POWER MEASUREMENT		31
	WIFI TEST CONFIGURATION		
6.3.	POWER REDUCTION		33
6.4.	POWER DRIFT		33
7. TES	T CONDITIONS AND RESULTS		34
	CONDUCTED POWER RESULTS		
	STAND-ALONE SAR TEST EVALUATION		
	SAR MEASUREMENT RESULTS		
	NDIX A: DETAILED SYSTEM CHECK RESULTS		
	NDIX B: DETAILED TEST RESULTS		
	NDIX C: CALIBRATION CERTIFICATE		
APPE	NDIX D: PHOTOGRAPHS		45

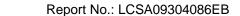














TEST STANDARDS AND TEST DESCRIPTION

FCC ID: 2AZNS-R0782

1.1. Statement of Compliance

The maximum of results of SAR found during testing for R0782 are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Body(Report SAR1-g (W/kg) (Separation Distance 0mm)
DTS	WIFI2.4G	11. Tracting 0.542
NII	WIFI5.2G	0.268
INII	WIFI5.8G	0.375

Note

1) This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47CFR §2.1093 and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.













Page **7** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

1.2. Test Location

Company:

Shenzhen LCS Compliance Testing Laboratory Ltd.

101, 201 Bldg A 8 204 Bld. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan Address:

District, Shenzhen, 518000, China

Telephone: (+86)755-82591330 Fax: (+86)755-82591330 Web: www.LCS-cert.com

E-mail: webmaster@LCS-cert.com

1.3. Test Facility

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

Site Description

SAR Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

1.4. Test Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	I Hamissing L
Relative humidity	Min. = 30%, Max. = 70%	103 /C3
Ground system resistance	< 0.5 Ω	
Atmospheric pressure:	950-1050mbar	
	ow and in compliance with requirement of star	



















Page 8 of 45 FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

1.5. Product Description

The **InkBOOK Europe Sp.z o.o.** 's Model: R0782or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

EUT : Focus Plus and Focus Color

Test Model : R0782

Additional Model No. : R0782A, R0782B, R0783, R0783A, R0783C

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no

additional models were tested

Ratings : Input: 5V-2A, 5V-3A

Battery: DC 3.7V, 2900mAh

Hardware Version : /
Software Version : /

Bluetooth

Frequency Range : 2402MHz~2480MHz

Channel Number : 79 channels for Bluetooth V5.0 (DSS)

40 channels for Bluetooth V5.0 (DTS)

Channel Spacing : 1MHz for Bluetooth V5.0 (DSS)

2MHz for Bluetooth V5.0 (DTS)

Modulation Type : GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS)

GFSK for Bluetooth V5.0 (DTS)

Bluetooth Version : V5.0

Antenna Description : PIFA Antenna, 0.34dBi(Max.)

WIFI(2.4G Band)

Frequency Range : 2412MHz~2462MHz

Channel Spacing : 5MHz

Channel Number : 11 Channels for 20MHz bandwidth (2412~2462MHz)

7 Channels for 40MHz bandwidth (2422~2452MHz)

Modulation Type : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)

IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Description : PIFA Antenna, 0.34dBi(Max.)

WIFI(5.2G Band) :

Frequency Range : 5180MHz~5240MHz

Channel Number : 4 Channels for 20MHz bandwidth(5180MHz~5240MHz)

2 channels for 40MHz bandwidth(5190MHz~5230MHz)

1 channels for 80MHz bandwidth(5210MHz)

Modulation Type : IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : PIFA Antenna, -0.46dBi(Max.)

WIFI(5.8G Band) :

Frequency Range : 5745MHz~5825MHz

Channel Number : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)

2 channels for 40MHz bandwidth(5755MHz~5795MHz)

1 channels for 80MHz bandwidth(5775MHz)

Modulation Type : IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : PIFA Antenna, 1.07dBi(Max.)





Page 9 of 45 FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

Exposure category

: Uncontrolled Environment General Population

































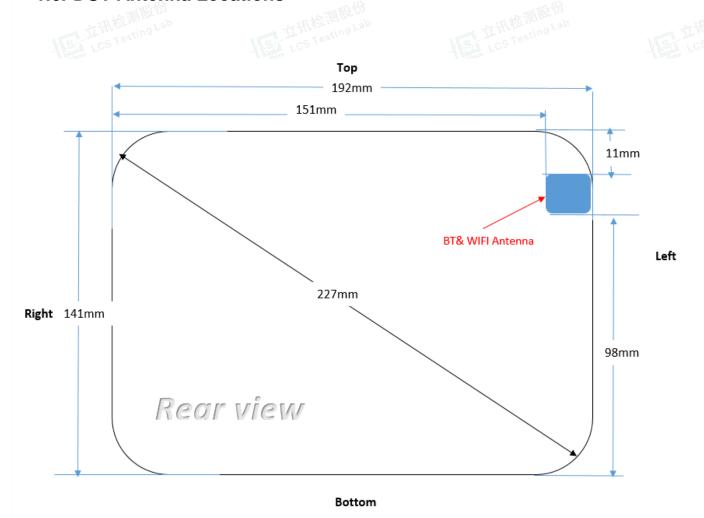




Report No.: LCSA09304086EB



1.6. DUT Antenna Locations



Distance from the antenna to the EUT edge(mm)						
Mode Front Back Left Right Top Bottom						
BT&WIFI Antenna	≤ 5	≤ 5	≤ 5	151	11	98

Note:

1) Per KDB 616217, the diagonal length is > 200mm, the device is considered a "tablet" device and needed to test 0mm 1-g body SAR.











Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity





FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

1.7. Test Specification

1.7. Test Specific	auon
Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 616217 D04	SAR for Tablet and Laptop
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03

















1.8. RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational	
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g	
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g	
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g	

Notes:

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

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





Shenzhen LCS Compliance Testing Laboratory Ltd.

^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

SPEAG DASY5 Professional



1.9. Equipment list

Test Platform

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

103	i iatioiiii	Of EAC BACTOT folessional					
Des	Description SAR Test System (Frequency range 300MHz-6GHz)						12 24
Software Reference DASY52; SEMCA		52; SEMCAD X		1/13/10		100	
	Hardware Reference						
Equipment			Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	PC		Lenovo	NA	NA	NA ¹	NA ¹
\boxtimes	Twin Phantom		SPEAG	SAM V5.0	1850	NA ¹	NA ¹
\boxtimes	ELI Phantom		SPEAG	ELI V6.0	2010	NA ¹	NA ¹
\boxtimes	DAE		SPEAG	DAE3	373	2024/1/3	2025/1/2
\boxtimes	E-Field Probe	- 100 PM	SPEAG	EX3DV4	3805	2023/11/23	2024/11/22
\boxtimes	Validation Kits	asting L	SPEAG	D2450V2	808 enire	2023/10/23	2026/10/22
\boxtimes	Validation Kits		SPEAG	D5GHzV2	1046	2023/10/23	2026/10/22
	Agilent Network Ana	lyzer	Agilent	8753E	SU38432944	2024/6/6	2025/6/5
\boxtimes	Dielectric Probe ł	<it< td=""><td>SPEAG</td><td>DAK3.5</td><td>1425</td><td>2024/6/6</td><td>2025/6/5</td></it<>	SPEAG	DAK3.5	1425	2024/6/6	2025/6/5

CMW500

4426-20

E4419B

E4419B

E9301H

E9301H

E4438C

BP-01M18G

SP-504

NA

42115

03746

MY45104493

MY45100308

MY41495616

MY41495234

MY49072627

P190501

NA

LCS-E-138

2023/10/29

2024/6/6

2023/10/29

2023/10/29

2023/10/29

2023/10/29

2024/6/6

2024/6/6

2024/6/6

2024/6/6

Note: All the equipments are within the valid period when the tests are performed.

R&S

MCLI/USA

Agilent

Agilent

Agilent

Agilent

Agilent

I-SHENG

HTC-1

"1": NA as this is not measurement equipment.

Universal Radio

Communication Tester

Directional Coupler

Power meter

Power meter

Power sensor

Power sensor

Signal Generator

Broadband Preamplifier

DC POWER SUPPLY

Speed reading

thermometer







2024/10/28

2025/6/5

2024/10/28

2024/10/28

2024/10/28

2024/10/28

2025/6/5

2025/6/5

2025/6/5

2025/6/5









Page **14** of **45** FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

2. SAR MEASUREMENTS SYSTEM CONFIGURATION

2.1. SAR Measurement System

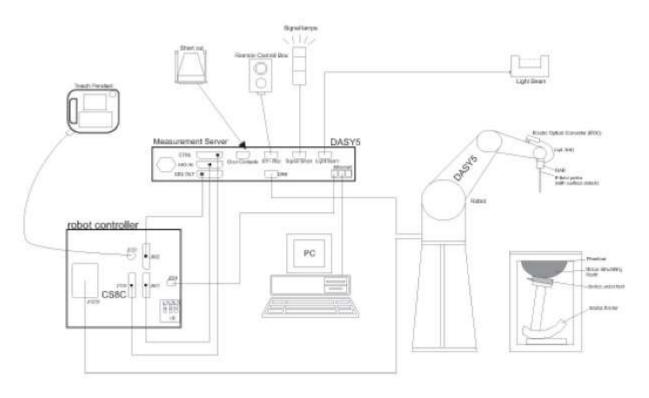
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|Ei|2)/\rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

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 electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, 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.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration













Page **15** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

• The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.









Report No.: LCSA09304086EB



2. Isotropic E-field Fr	OBC EXODY T
	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

FCC ID: 2AZNS-R0782













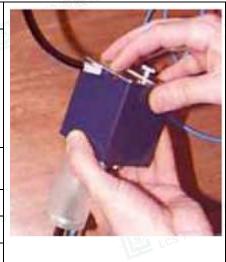


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China



2.3. Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	



Report No.: LCSA09304086EB

2.4. SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



518000, China









Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,





Report No.: LCSA09304086EB

2.5. ELI Phantom

	and the state of t				
Material	Vinylester, glass fiber reinforced (VE-GF)				
Liquid	Compatible with all SPEAG tissue				
Compatibility	simulating liquids (incl. DGBE type)				
Shell Thickness	2.0 ± 0.2 mm (bottom plate)				
Dimensions	Major axis: 600 mm				
	Minor axis: 400 mm				
Filling Volume	approx. 30 liters				
Wooden Support	SPEAG standard phantom table				



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI 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. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

FCC ID: 2AZNS-R0782

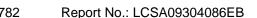














2.6. Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

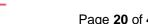


工资格测度份 LCS Testing Lab NSI LCS Testing Lab











2.7. Measurement procedure

2.7.1. Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

FCC ID: 2AZNS-R0782

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the postprocessing 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.





Page **21** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

			≤ 3 GHz	> 3 GHz	
Maximum distance fro (geometric center of pr			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°	
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the test	on, is smaller than the above, must be ≤ the corresponding levice with at least one	
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform	grid: ∆z _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid $\Delta z_{Z_{00m}}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Z_{000m}}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %

2.7.2. Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.











Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Page 22 of 45 FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

2.7.3. Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z) Ui = input signal of channel i (i = x, y, z) cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



工活检测股份 Tics Testing Lab



Page 23 of 45 FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

$$\begin{array}{ll} \textit{Hi} = (\textit{Vi})^{1/2} \cdot (\textit{ai0} + \textit{ai1}f + \textit{ai2}f^2) / f \\ \text{With } \text{Vi = compensated signal of channel i} & \text{(i = x, y, z)} \\ \text{Normi = sensor sensitivity of channel I} & \text{(i = x, y, z)} \end{array}$$

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} \,_{Or} \, P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m





Page 24 of 45 FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

SAR measurement variability

3.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through
- 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

3.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.





Page **25** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

4. Description of Test Position

4.1. Test Positions Configuration

Per FCC KDB616217 D04, The required minimum test separation distance for incorporating transmitters and antennas into laptop, notebook and netbook computer displays is determined with the display screen opened at an angle of 90° to the keyboard compartment. If a computer has other operating configurations that require a different or more conservative display to keyboard angle for normal use, a KDB inquiry should be submitted to determine the test requirements. When antennas are incorporated in the keyboard section of a laptop computer, SAR is required for the bottom surface of the keyboard.

Provided tablet use conditions are not supported by the laptop computer, SAR tests for bystander exposure from the edges of the keyboard and display screen of laptop computers are generally not required. However, when edge testing is necessary, the similar concerns for simultaneous transmission on adjacent or multiple edges described for tablets also apply.

For this device, the transmit antenna are located at the screen section.

Body operating configurations are tested with the device bottom side positioned against a flat phantom with test separation distance of 0mm in a normal use configuration.







Page **26** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

5. SAR System Verification Procedure

5.1. Tissue Simulate Liquid

5.1.1. Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)							
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700			
Water	38.56	40.30	55.24	55.00	54.92			
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23			
Sucrose	56.32	57.90	0	0	0			
HEC	0.98	0.24	0	0	0			
Bactericide	0.19	0.18	0	0	0			
Tween	0	0	44.45	44.80	44.85			

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity

Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65%
Mineral oil: 10-30%
Emulsifiers: 8-25%
Sodium salt: 0-1.5%

Table 1: Recipe of Tissue Simulate Liquid





Shenzhen LCS Compliance Testing Laboratory Ltd.



5

FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

5.1.2. Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the DAKS. The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue	Measured	Target Tiss	ue (±5%)	Measured	d Tissue	Liquid	Measured
Type	Frequency (MHz)	٤r	σ(S/m)	٤r	σ(S/m)	Temp. (℃)	Date
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	39.521	1.801	22.6	October 08, 2024
5250Head	5250	36.0 (34.20~37.80)	4.66 (4.43~4.89)	35.745	4.635	22.1	October 18, 2024
5750 Head	5750	35.3 (33.54~37.07)	5.27 (5.01~5.53)	36.284	5.156	22.1	October 18, 2024

Table 2: Measurement result of Tissue electric parameters





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

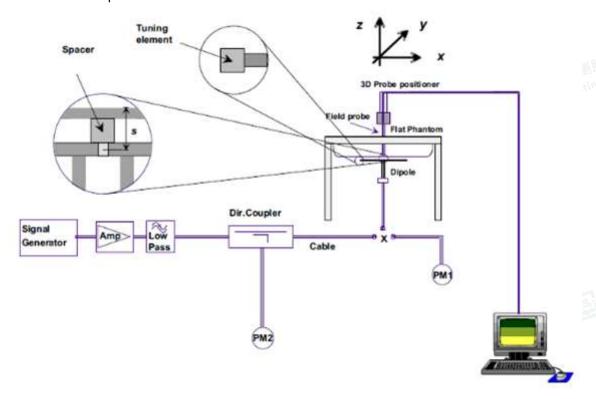


FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

5.2. SAR System Check

The microwave circuit arrangement for system Check is sketched in F-1. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-1. the microwave circuit arrangement used for SAR system check

5.2.1. Justification for Extended SAR Dipole Calibrations

- Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
 - a) There is no physical damage on the dipole;
 - b) System check with specific dipole is within 10% of calibrated value;
 - c) Return-loss is within 20% of calibrated measurement;
 - Impedance is within 5Ω from the previous measurement.
- Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

D2450V2 SN 808 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-26.3	一一一	51.4		4.73	





Page 29 of 45

FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

D5GHzV2 SN 1046 Extend Dipole Calibrations(5250MHz)

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-28.6	TWE	49.9	工工机	-3.71	立道

D5GHzV2 SN 1046 Extend Dipole Calibrations(5750MHz)

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-23	-26.8		54.6		1.18	















Page **30** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

5.2.2. Summary System Check Result(s)

	_	7.1%							
		Measured SAR	Measured SAR	Measured SAR	Measured SAR	Target SAR (normalized	Target SAR (normalized	Liquid	
Valida	tion Kit	250mW	250mW	(normalized to 1W)	(normalized to 1W)	` (+10%)		Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450V2	Head	12.47	5.74	49.88	22.96	53.5 (48.15~58.85)	24.8 (22.32~27.28)	22.6	October 08, 2024
		Measured	Measured	Measured SAR	Measured SAR	Target SAR	Target SAR		
Valida	tion Kit	SAR 100mW	SAR 100mW	(normalized to 1W)	(normalized to 1W)	(normalized to 1W) (±10%)	(normalized to 1W) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2	Head (5.25GHz)	7.63	2.46	76.30	24.60	78.1 (70.29~85.91)	22.2 (19.98~24.42)	22.1	October 18, 2024
DOGHZVZ	Head (5.75GHz)	8.26	2.32	82.60	23.20	77.4 (69.66~85.14)	21.6 (19.44~23.76)	22.1	October 18, 2024

Table 3: Please see the Appendix A

























Page **31** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

6. SAR measurement procedure

The measurement procedures are as follows:

6.1. Conducted power measurement

a. For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously Transmission, at maximum RF power in each supported wireless interface and frequency band. b. Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power.

6.2. WIFI Test Configuration

The SAR measurement and test reduction procedures are structured according to either the DSSS or OFDM transmission mode configurations used in each standalone frequency band and aggregated band. For devices that operate in exposure configurations that require multiple test positions, additional SAR test reduction may be applied. The maximum output power specified for production units, including tune-up tolerance, are used to determine initial SAR test requirements for the 802.11 transmission modes in a frequency band. SAR is measured using the highest measured maximum output power channel for the initial test configuration. SAR measurement and test reduction for the remaining 802.11 modes and test channels are determined according to measured or specified maximum output power and reported SAR of the initial measurements. The general test reduction and SAR measurement approaches are summarized in the following:

- 1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.
- 2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, an "initial test configuration" is first determined for each standalone and aggregated frequency band according to the maximum output power and tune-up tolerance specified for production units.
- a. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- b. SAR is measured for OFDM configurations using the initial test configuration procedures. Additional frequency band specific SAR test reduction may be considered for individual frequency bands
- c. Depending on the reported SAR of the highest maximum output power channel tested in the initial test configuration, SAR test reduction may apply to subsequent highest output channels in the initial test configuration to reduce the number of SAR measurements.
- 3. The Initial test configuration does not apply to DSSS. The 2.4 GHz band SAR test requirements and 802.11b DSSS procedures are used to establish the transmission configurations required for SAR measurement.
- 4. An "initial test position" is applied to further reduce the number of SAR tests for devices operating in next to the ear, UMPC mini-tablet or hotspot mode exposure configurations that require multiple test positions .
- a. SAR is measured for 802.11b according to the 2.4 GHz DSSS procedure using the exposure condition established by the initial test position.
- b. SAR is measured for 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration. 802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel.
- 5. The Initial test position does not apply to devices that require a fixed exposure test position. SAR is measured in a fixed exposure test position for these devices in 802.11b according to the 2.4 GHz DSSS procedure or in 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration procedures.
- 6. The "subsequent test configuration" procedures are applied to determine if additional SAR measurements are required for the remaining OFDM transmission modes that have not been tested in the initial test configuration. SAR test exclusion is determined according to reported SAR in the initial test configuration and maximum output power specified or measured for these other OFDM configurations.

2.4 GHz and 5GHz SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in section 5.2.2.

1. 802.11b DSSS SAR Test Requirements





Page **32** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- a. When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- b. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 1. 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3). SAR is not required for the following 2.4 GHz OFDM conditions.

- a. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration
- b. 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/kg.
- 2. SAR Test Requirements for OFDM Configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements.20 In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

- 3. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements
 The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11
 configuration with the highest maximum output power specified for production units, including tune-up tolerance,
 in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the
 highest maximum output power channel determined by the default power measurement procedures (section 4).
 When multiple configurations in a frequency band have the same specified maximum output power, the initial test
 configuration is determined according to the following steps applied sequentially.
- a. The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- b. If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- c. If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- d. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a. Channels with measured maximum output power within ¼ dB of each other are considered to have the same maximum output.
- b. When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement.
- c. When there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2). SAR test reduction of subsequent highest output test channels is based on the reported SAR of the initial test configuration.





Page **33** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode.23 For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

4. Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in section 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- a. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- c. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
- 1). SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
- 2). SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested.
- a) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- d. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
- 1) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
- 2) replace "initial test configuration" with "all tested higher output power configurations.

6.3. Power Reduction

The product without any power reduction.

6.4. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within ± 0.2 dB.



of **45** FCC ID: 2AZNS-R0782

Report No.: LCSA09304086EB

7. TEST CONDITIONS AND RESULTS

7.1. Conducted Power Results

According KDB 447498 D01 General RF Exposure Guidance v06 Section 4.1 2) states that "Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance."

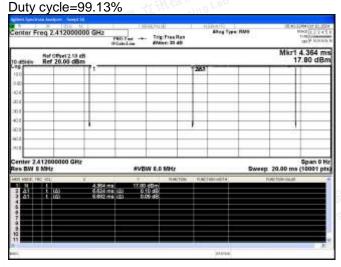
7.1.1. Conducted Power Measurement Results(WIFI 2.4G)

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune up (dBm)
NVNT	de l'ab	2412	Ant1	15.88	16.00
NVNT	b th	2437	Ant1	15.73	16.00
NVNT	b	2462	Ant1	15.39	16.00
NVNT	g	2412	Ant1	14.28	15.00
NVNT	g	2437	Ant1	14.16	15.00
NVNT	g	2462	Ant1	13.89	14.00
NVNT	n20	2412	Ant1	13.82	14.00
NVNT	n20	2437	Ant1	13.54	14.00
NVNT	n20	2462	Ant1	13.48	14.00
NVNT	n40	2422	Ant1	12.23	13.00
NVNT	n40	2437	Ant1	12.46	13.00
NVNT	n40	2452	Ant1	12.06	13.00

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 2.4G (802.11b):





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China



Report No.: LCSA09304086EB

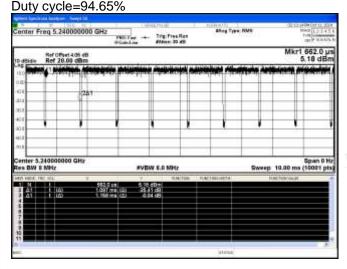
7.1.2. Conducted Power Measurement Results(WIFI 5.2G)

	7933,438	3.85		THE CHAIRS AND	- 1407 YUL	11/4	_ 3/02
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune up (dBm)
NVNT	а	5180	Ant1	12.42	0.24	12.66	13.00
NVNT	а	5200	Ant1	12	0.24	12.24	13.00
NVNT	а	5240	Ant1	12.61	0.24	12.85	13.00
NVNT	n20	5180	Ant1	11.11	0.12	11.23	12.00
NVNT	n20	5200	Ant1	10.91	0.12	11.03	12.00
NVNT	n20	5240	Ant1	11.03	0.12	11.15	12.00
NVNT	n40	5190	Ant1	10.84	0.12	10.96	11.00
NVNT	n40	5230	Ant1	10.54	0.12	10.66	11.00
NVNT	ac20	5180	Ant1	11.16	0.12	11.28	12.00
NVNT	ac20	5200	Ant1	10.93	0.12	11.05	12.00
NVNT	ac20	5240	Ant1	11.23	0.12	11.35	12.00
NVNT	ac40	5190	Ant1	10.93	0.12	11.05	12.00
NVNT	ac40	5230	Ant1	10.38	0.12	10.50	11.00
NVNT	ac80	5210	Ant1	9.95	0.25	10.20	11.00

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.2G (802.11a):





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China



Page **36** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

7.1.3. Conducted Power Measurement Results(WIFI 5.8G)

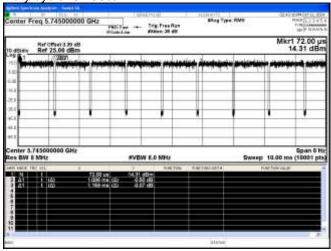
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune up (dBm)
NVNT	a	5745	Ant1	12.81	0.24	13.05	14.00
NVNT	а	5785	Ant1	12.77	0.24	13.01	14.00
NVNT	а	5825	Ant1	12.43	0.24	12.67	13.00
NVNT	n20	5745	Ant1	11.17	0.12	11.29	12.00
NVNT	n20	5785	Ant1	11.3	0.12	11.42	12.00
NVNT	n20	5825	Ant1	11.03	0.12	11.15	12.00
NVNT	n40	5755	Ant1	10.74	0.12	10.86	11.00
NVNT	n40	5795	Ant1	9.86	0.12	9.98	10.00
NVNT	ac20	5745	Ant1	11.26	0.12	11.38	12.00
NVNT	ac20	5785	Ant1	11.33	0.12	11.45	12.00
NVNT	ac20	5825	Ant1	10.95	0.12	11.07	12.00
NVNT	ac40	5755	Ant1	10.71	0.12	10.83	11.00
NVNT	ac40	5795	Ant1	9.92	0.12	10.04	11.00
NVNT	ac80	5775	Ant1	9.86	0.25	10.11	11.00

Note

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 5.8G (802.11a):

Duty cycle=94.56%













Shenzhen LCS Compliance Testing Laboratory Ltd.



Page **37** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

7.1.4. Conducted Power Measurement Results(Bluetooth)

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune up (dBm)
NVNT	1-DH5	2402	Ant1	-0.29	0.00
NVNT	1-DH5	2441	Ant1	1.18	2.00
NVNT	1-DH5	2480	Ant1	0.18	1.00
NVNT	2-DH5	2402	Ant1	-0.12	0.00
NVNT	2-DH5	2441	Ant1	0.30	1.00
NVNT	2-DH5	2480	Ant1	-0.53	0.00
NVNT	3-DH5	2402	Ant1	0.22	1.00
NVNT	3-DH5	2441	Ant1	0.63	1.00
NVNT	3-DH5	2480	Ant1	-0.26	0.00

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune up (dBm)
NVNT	BLE 1M	2402	Ant1	0.07	1.00
NVNT	BLE 1M	2440	Ant1	0.53	5 1.00
NVNT	BLE 1M	2480	Ant1	-0.49	0.00







Report No.: LCSA09304086EB



7.2. Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
					•	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	CART .
1500	73	86	98	110	122	SAR Test Exclusion
1900	65	76	87	98	109	Threshold (mW)
2450	57	67	77	86	96	(-2)
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

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



· LCS Testing Lab



Page **39** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

The test exclusions are applicable only when the minimum test separation distance is > 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and > 50 mm

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	β21	527	534	541	547	554	561	567	
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	mW
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	

According to the table above, Standalone SAR exclusion calculation for this device are as below:

	Freq. Band	Frequency (MHz)	Position	Test Separation (mm)	Max Power (dBm)	Max Power (mW)	Exclusion Threshold (mW)	Exclusion (Yes/No)
		2441	Rear side	5	2.00	1.58	10	Yes
		2441	Left side	5	2.00	1.58	10	Yes
	Bluetooth	2441	Right side	151	2.00	1.58	1106	Yes
		2441	Top side	11	2.00	1.58	21	Yes
		2441	Bottom side	98	2.00	1.58	576	Yes
		2412	Rear side	5	16.00	39.81	10	No
		2412	Left side	5	16.00	39.81	10	No
	Wi-Fi 2.4G	2412	Right side	151	16.00	39.81	1106	Yes
ANT		2412	Top side	11	16.00	39.81	21	No
,		2412	Bottom side	98	16.00	39.81	576	Yes
		5240	Rear side	5	13.00	19.95	7	No
		5240	Left side	5	13.00	19.95	7	No
	Wi-Fi 5.2G	5240	Right side	151	13.00	19.95	1076	Yes
		5240	Top side	11	13.00	19.95	14.4	No
		5240	Bottom side	98	13.00	19.95	546	Yes
		5745	Rear side	5	14.00	25.12	6	No
		5745	Left side	5	14.00	25.12	43 6	No
	Wi-Fi 5.8G	5745	Right side	151	14.00	25.12	1072	Yes
	ST LOS TOST	5745	Top side	1880111	14.00	25.12	13.4	No
	Land Control of the C	5745	Bottom side	98	14.00	25.12	542	Yes



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China



Page 40 of 45 FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

From what is shown in the table above, we can draw the conclusion that:

1 TOTTI WITE	Tioni what is shown in the table above, we can draw the conclusion that.											
	EUT Sides for SAR Testing											
	Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom				
ANT1	Bluetooth	Body	N/A	No	No	No	No	No				
ANTI	WIFI 2.4G	Body	N/A	Yes	Yes	No	Yes	No				
	WIFI 5.2G	Body	N/A	Yes	Yes	No	Yes	No				
	WIFI 5.8G	Body	N/A	Yes	Yes	No	Yes	No				

EUT Sides for SAR Testing.

Note:

According to KDB616217, exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary.



41 of **45** FCC ID: 2AZNS-R0782

7.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

Reported SAR=Measured SAR*10(Ptarget-Pmeasured))/10* DutyCycle Factor Scaling factor=10(Ptarget-Pmeasured))/10

DutyCycle Factor=1/Dutycycle%

Reported SAR= Measured SAR* Scaling factor* DutyCycle Factor

Where

Ptarget is the power of manufacturing upper limit;

P_{measured} is the measured power;

Measured SAR is measured SAR at measured power which including power drift)

Reported SAR which including Power Drift and Scaling factor

7.3.1. SAR Results [WIFI 2.4G]

		. LET 'UPL I''			- Aug 1971 1971					
	SAR Values [WIFI 2.4G]									
	Channel	Test	Duty Cycle Factor	Conducted Power (dBm)	Maximum Allowed	PowerDrift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)		
		Position			Power (dBm)			Measured	Reported	
			measured / repo	orted SAR numb	ers - Body (dis	tance 0mm)				
1/2412	802.11b	Rear side	1.009	15.88	16.00	-0.14	1.028	0.523	0.542	
1/2412	802.11b	Left side	1.009	15.88	16.00	-0.11	1.028	0.465	0.482	
1/2412	802.11b	Top side	1.009	15.88	16.00	-0.08	1.028	0.422	0.438	

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.
- 3) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.













Report No.: LCSA09304086EB



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China





FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

7.3.2. SAR Results [WIFI 5.2G]

1.3.2. SAR	Results	IVVIFI 5.2	. .						
	10.00			SAR Values [V	VIFI 5.2G]	A 11 9331			
Ch/	Channel	Test	Duty Cycle	Conducted	Maximum Allowed	PowerDrift	Scaling	SAR _{1-g} res	ults(W/kg)
Freq. (MHz)	Туре	Position	Factor	Power (dBm)	Power (dBm)	(dB)	Factor	Measured	Reported
			measured / repo	orted SAR numb	ers - Body (dis	tance 0mm)			
48/5240	802.11a	Rear side	1.057	12.85	13.00	-0.15	1.035	0.245	0.268
48/5240	802.11a	Left side	1.057	12.85	13.00	0.17	1.035	0.165	0.180
48/5240	802.11a	Top side	1.057	12.85	13.00	0.12	1.035	0.122	0.133

Note:

- The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B. 1)
- When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test 2) configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.





Shenzhen LCS Compliance Testing Laboratory Ltd.



age **43** of **45** FCC ID: 2AZNS-R0782

782 Report No.: LCSA09304086EB

7.3.3. SAR Results [WIFI 5.8G]

	SAR Values [WIFI 5.8G]										
Ch/ Freq. (MHz)	Channel	Channel Test Duty Cycle Type Position Factor	Duty Cycle	Conducted Maximum Allowed PowerDrift	Scaling	SAR _{1-g} results(W/kg)					
			Power (dBm)	Power (dBm)	(dB)	Factor	Measured	Reported			
			measured / repo	orted SAR numb	ers - Body (dis	tance 0mm)					
149/5745	802.11a	Rear side	1.058	13.05	14.00	-0.16	1.245	0.285	0.375		
149/5745	802.11a	Left side	1.058	13.05	14.00	0.10	1.245	0.179	0.236		
149/5745	802.11a	Top side	1.058	13.05	14.00	-0.12	1.245	0.132	0.174		

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.
- 3) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.





Shenzhen LCS Compliance Testing Laboratory Ltd.



Page **44** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

7.4. Measurement Uncertainty

When the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. to KDB 865664D01.







Page **45** of **45** FCC ID: 2AZNS-R0782 Report No.: LCSA09304086EB

APPENDIX A: DETAILED SYSTEM CHECK RESULTS

APPENDIX B: DETAILED TEST RESULTS

APPENDIX C: CALIBRATION CERTIFICATE

APPENDIX D: PHOTOGRAPHS



