

SAR TEST REPORT



For

Acer Incorporated

Notebook Computer

Model No.: N24G3

FCC ID: HLZAX201D2

IC: 1754F-AX201D2

The MAX SAR(1g)	
Body SAR	1.158W/Kg

Brand:



Maximum SAR Test distance: 0mm

Prepared for : Acer Incorporated

8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City
221 Taiwan

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Report Number : ACS-SF26011
Date of Test : May.06~09, 2026
Date of Report : May.12, 2026

TABLE OF CONTENTS

Description	Page
SAR TEST REPORT.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Equipment Under Test (Provided by the applicant)	5
2. GENERAL DESCRIPTION.....	6
2.1. Product Description For EUT.....	6
2.2. Applied Standards	6
2.3. Device Category and SAR Limits	6
2.4. Test Conditions	7
2.5. Exposure Positions Consideration.....	7
2.6. Standalone SAR Test Exclusion Considerations.....	8
2.7. Block Diagram of connection between EUT and simulators	9
2.8. Test Facility.....	9
2.9. Test Equipments	10
2.10. Laboratory Environment	12
2.11. Measurement Uncertainty	12
3. MEASURE PROCEDURES.....	14
3.1. General description of test procedures	14
4. SAR MEASUREMENTS SYSTEM	15
4.1. SAR Measurement Set-up	15
4.2. ELI Phantom	16
4.3. Device Holder for SAM Twin Phantom.....	17
4.4. DASY5 E-field Probe System.....	18
4.5. E-field Probe Calibration	19
4.6. Scanning procedure	20
5. DATA STORAGE AND EVALUATION	22
5.1. Data Storage	22
5.2. Data Evaluation by SEMCAD	22
6. SYSTEM CHECK.....	24
7. TEST RESULTS.....	26
7.1. Output power.....	26
7.2. System Check & Tissue simulating liquid	31
7.3. Dielectric Performance for Body Tissue simulating liquid	36
7.4. Test Results	39

APPENDIX A (Graph Result –WIFI 2.4GHz & WIFI 5GHz)

APPENDIX B (Calibration Certificate)

APPENDIX C (Test Photos)

SAR TEST REPORT

Applicant : Acer Incorporated
Manufacturer : Acer Incorporated
Product : Notebook Computer
Model No. : N24G3
Brand : 
Test Voltage : AC 100-240V, 50/60Hz

Measurement Standard Used:

- FCC 47 CFR Part 2 (2.1093)
- IEEE C95.1-1999
- IEC/IEEE 62209-1528: 2020
- IEEE1528-2013
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- RSS-102, Issue 6: 2023
- FCC KDB 447498 D04 v01
- FCC KDB 248227 D01 v02r02
- KDB 616217 D04 v01r02

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the EUT is technically compliant with the FCC and RSS-102 test requirements.

This report applies to single evaluation of one sample of above mentioned product. And shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

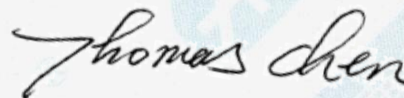
Date of Test: May.06~09, 2026 Date of Report: May.12, 2026

Prepared by:



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Reviewed by:

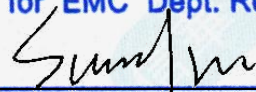


Thomas Chen / Assistant Manager

Approved & Authorized Signer:

AUDIX[®] 信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: 

Sunny Lu / Manager

REPORT REVISION HISTORY

Edition No.	Revision	Issue Date	Report No.
Original	Initial issue of report	May.12, 2026	ACS-SF26011

1. GENERAL INFORMATION

1.1. Description of Equipment Under Test (Provided by the applicant)

Applicant	Acer Incorporated	
Applicant Address	8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221 Taiwan	
Manufacturer	Acer Incorporated	
Manufacturer Address	8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221 Taiwan	
Product	Notebook Computer	
Model No.	N24G3	
Brand		
FCC ID	HLZAX201D2	
IC	1754F-AX201D2	
Sample Type	Prototype production	
Date of Receipt	May.05, 2026	
Date of Test	May.06~09, 2026	
Operating Mode	WLAN+BT	
Frequency Range	802.11 b/g/n (HT20/HT40) 802.11ax (HE20/ HE40)	2412MHz~2472MHz
	802.11 a 802.11n (HT20/HT40) 802.11ac (VHT20/ VHT40/ VHT80) 802.11ax (HE20/ HE40/ (HE80)	5150 MHz~5250MHz
		5250 MHz~5350MHz
		5470 MHz~5725MHz
		5725 MHz~5850MHz

RF Module and Antenna Information	
WIFI+BT Module	Acer; M/N: AX201D2W
Type of Antenna	PIFA Antenna
Antenna Peak Gain	BT Antenna (Main) Peak Gain: 1.99dBi WIFI 2.4GHz Antenna 1(Main) Peak Gain: 1.99dBi WIFI 2.4GHz Antenna 2(Aux) Peak Gain: 0.79dBi WIFI 5GHz Antenna 1(Main) Peak Gain: 2.69dBi WIFI 5GHz Antenna 2(Aux) Peak Gain: 3.35dBi

2. GENERAL DESCRIPTION

2.1. Product Description For EUT

Please refer to section 1.1

2.2. Applied Standards

The Specific Absorption Rate (SAR) testing specification, method and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- IEEE C95.1-1999
- IEC/IEEE 62209-1528: 2020
- IEEE1528-2013
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- RSS-102, Issue 6: 2023
- FCC KDB 447498 D04 v01
- FCC KDB 248227 D01 v02r02
- KDB 616217 D04 v01r02

2.3. Device Category and SAR Limits

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.

2.4. Test Conditions

2.4.1. Ambient Condition

Ambient Temperature	20 to 24°C
Humidity	< 60 %

2.4.2. Test Configuration

The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests.

2.4.3 Simultaneous Transmission Description

No.	Type
1.	WLAN2.4G ANT 1+ WLAN2.4G ANT 2
2.	WLAN5G ANT 1+ WLAN5G ANT 2

2.5. Exposure Positions Consideration

Exposure Positions Consideration please refer to Appendix D.

Test Sides for SAR tests						
Band	Body					
	Back	Front	Top	Bottom	Left	Right
BT	✓	X	X	✓	X	✓
WLAN 2.4GHz	✓	X	X	✓	X	✓
WLAN 5GHz	✓	X	X	✓	X	✓

Note:

1. The side which has a distance larger than 2.5cm from antenna can be excluded from SAR measurement.

2.6. Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

According to the KDB447498 appendix A, the SAR test exclusion threshold listed as below

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

According to RSS-102 Issue 6 Table 11, the SAR test exclusion threshold for 2450MHz at 0mm test separation distances is 3mW, 5.8GHz is 1mW.

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

EUT

Certificated by FCC, USA
Designation No: CN5022
Valid Date: Mar.31, 2027

2.9. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date	Calibration Body
1.	DASY5 SAR Test System	Speag	TX60 L speag	F09/5B1H1/01	NCR	NCR	NCR
2.	ENA SERIES NETWORK ANALYZER	Agilent	E5071C	MY46316760	2025.09.15	2026.09.14	CCIC
3.	Power meter	Anritsu	ML2487A	6K00003262	2025.06.09	2026.06.08	CCIC
4.	Power Sensor	Anritsu	MA2491A	032516	2025.06.09	2026.06.08	CCIC
5.	Signal Generator	Rohde&Schwarz	SMB100A	181375	2026.03.03	2027.03.02	CCIC
6.	Amplifier	Milmega	ZHL-42W	C620601316	NCR	NCR	NCR
7.	Dipole Validation Kits	Speag	D2450V2	862	2023.05.18	2026.05.17	CTTL
8.	Dipole Validation Kits	Speag	D5GHzV2	1102	2023.05.19	2026.05.18	CTTL
9.	Attenuator(20dB)	MCL	VAT-20W2-2W	1527-001	2025.09.15	2026.09.14	CCIC
10.	Date Acquisition Electronics	Speag	DAE4	899	2025.06.19	2026.06.18	CCTL
11.	E-Field Probe	Speag	EX3DV4	7957	2025.10.06	2026.10.05	CCTL
12.	RF Cable	SPUMA	EMCCFD400-N M-NM-2500	No.4+190413	2026.03.03	2027.03.02	CCIC
13.	RF Cable	eastsheep	RM086-SMA/N-J J-2000	NO.1	2025.06.09	2026.06.08	CCIC
14.	RF Cable	TIMES MICROWAVE	689233-001	HF160-KMKM-5.00M	2025.09.28	2026.09.27	CCIC
15.	RF Cable	TIMES MICROWAVE	689234-001	HF160-KMKM-2.00M	2025.09.15	2026.09.14	CCIC
16.	Test Software	Schmid&PartnerEnglinning AG	DASY5	52.10	NCR	NCR	NCR

Note: NCR means no calibration required (calibrated with system).

Note 1: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System ~
- c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- d): Calibration conducted by using other equipment that listed above from a) to c)

Note 2: CCIC (Shenzhen) Metrology & Testing Service Co., Ltd

Addr: ShengHui Hongxing Chuangzhi Square, Tongren Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen

Dipole: 2450V2-SN862

Antenna Parameters with Head TSL

Date	2024.05.16	2025.05.17
Impedance, Transformed to Feed point	48.0Ω-6.11jΩ	48.45Ω-6.19jΩ
Return Loss	-23.21dB	-24.13dB

Dipole: D5GHzV2-SN1102

Antenna Parameters with Head TSL at 5250MHz

Date	2024.05.17	2025.05.18
Impedance, Transformed to Feed point	5011Ω-8.24jΩ	49.42Ω-2.63jΩ
Return Loss	-25.12dB	-31.22dB

Antenna Parameters with Head TSL at 5600MHz

Date	2024.05.17	2025.05.18
Impedance, Transformed to Feed point	59.15Ω-0.77jΩ	59.24Ω-0.81jΩ
Return Loss	-21.34dB	-21.46dB

Antenna Parameters with Head TSL at 5750MHz

Date	2024.05.17	2025.05.18
Impedance, Transformed to Feed point	60.22Ω-0.33jΩ	54.33Ω-1.24jΩ
Return Loss	-26.32dB	-26.44dB

2.10.Laboratory Environment

Temperature	Min:20°C,Max.25°C
Relative humidity	Min. = 45%, Max. = 70%
Note: Ambient noise is checked and found very low and in compliance with requirement of standards.	

2.11.Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for SAR test	1g: ±21.2
	10g: ±20.7
Uncertainty for SAR tissue fluid	1g: ±21.1(Conductivity)
	10g: ±20.6(Dielectric properties)
Uncertainty for test site temperature and humidity	±0.6°C

Source	Type	Uncertainty Value (%)	Probability Distribution	K	C1(1g)	C1(10g)	Standard uncertainty u ₁ (%)1g	Standard uncertainty u ₁ (%)10g	Degree of freedom V _{eff} or V _i
Measurement system repeitivity	A	0.5	N	1		1	0.5	0.5	9
Probe calibration	B	5.9	N	1	1	1	5.9	5.9	∞
Isotropy	B	4.7	R	√3	1	1	2.7	2.7	∞
Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
Probe modulation response	B	0	R	√3	1	1	0	0	∞
Detection limits	B	1.0	R	√3	1	1	0.6	0.6	∞
Boundary effect	B	1.9	R	√3	1	1	1.1	1.1	∞
Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
Response time	B	0	R	√3	1	1	0	0	∞
Integration time	B	4.32	R	√3	1	1	2.5	2.5	∞
RF ambient conditions – noise	B	0	R	√3	1	1	0	0	∞
RF ambient conditions – reflections	B	3	R	√3	1	1	1.73	1.73	∞
Probe positioner mech. restrictions	B	0.4	R	√3	1	1	0.2	0.2	∞
Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
Post-processing	B	0	R	√3	1	1	0	0	∞
Test sample related									
Device holder uncertainty	A	2.94	N	1	1	1	2.94	2.94	M-1
Test sample positioning	A	4.1	N	1	1	1	4.1	4.1	M-1
Power scaling	B	5.0	R	√3	1	1	2.9	2.9	∞
Drift of output power (measured SAR drift)	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up									
Phantom uncertainty (shape and thickness tolerances)	B	4.0	R	√3	1	1	2.3	2.1	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0.84	1.9	1.6	∞
Liquid conductivity (meas.)	A	0.55	N	1	0.78	0.71	0.24	0.21	M-1
Liquid permittivity (meas.)	A	0.19	N	1	0.23	0.26	0.09	0.06	M
Liquid permittivity – temperature uncertainty	A	5.0	R	√3	0.78	0.71	1.4	1.1	∞
Liquid conductivity – temperature uncertainty	A	5.0	R	√3	0.23	0.26	1.2	0.8	∞
Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^{23} c_i^2 u_i^2}$						10.57	10.32	
Expanded uncertainty (95 % conf. interval)	$u_E = 2u_c$		N	K=2			21.14	20.64	

3. MEASURE PROCEDURES

3.1. General description of test procedures

This device support BDR/EDR+BLE, Choose the channel which has the maximum power as the priority test channel. The front, back side was tested separately use the primary channel the other channel was verified with the worse case side. The measured result was adjusted with maximum tune-up power and duty cycle then get the final result.

For the 802.11b/g SAR body tests, a communication link is set up with the test mode software for WIFI mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. Testing at higher data rates is not required when the maximum average output power is less than 0.25dB higher than those measured at the lowest data rate. SAR is not required for 802.11g channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels. The same test procedure for 802.11a/n/ac /ax mode.

4. SAR MEASUREMENTS SYSTEM

4.1. SAR Measurement Set-up

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

- (1) A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- (2) A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- (3) A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, 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.
- (4) A unit to operate the optical surface detector which is connected to the EOC.
- (5) The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
- (6) The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.
- (7) DASY5 software and SEMCAD data evaluation software.
- (8) Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- (9) The generic twin phantom enabling the testing of left-hand and right-hand usage.
- (10) The device holder for handheld mobile phones.
- (11) Tissue simulating liquid mixed according to the given recipes.
- (12) System validation dipoles allowing to validate the proper functioning of the system.

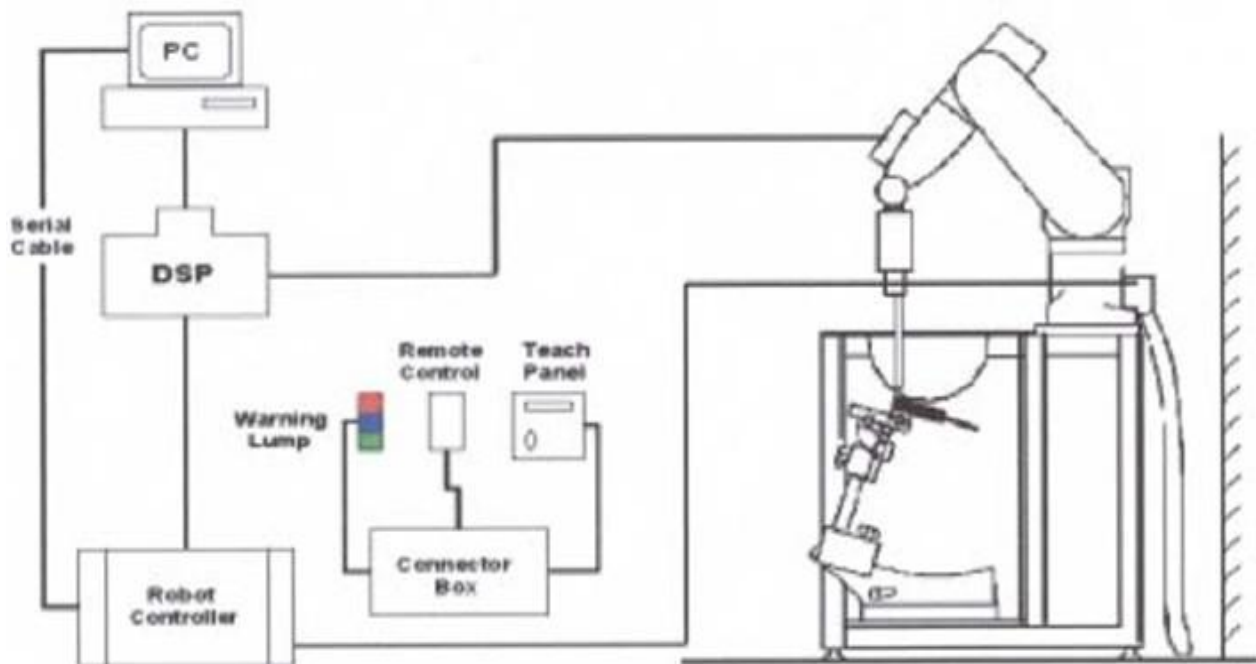


Figure 4.1 SAR Lab Test Measurement Set-up

4.2. ELI Phantom

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.

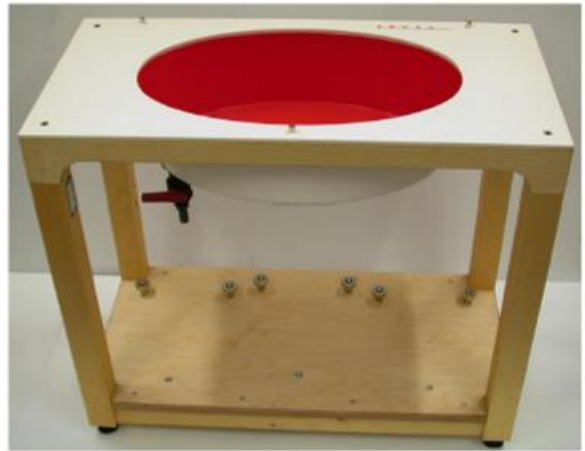


Figure 4.2 Top View of Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 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

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. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters.

On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

The phantom can be used with the following tissue simulating liquids:

- *Water-sugar based liquid
- *Glycol based liquids

4.3. Device Holder for SAM Twin Phantom

The SAR in the Phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5 mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. An accurate device position is therefore crucial for accurate and repeatable measurement. The position in which the devices must be measured, are defined by the standards. The DASY5 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 centers for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\tan \delta = 0.02$. 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.



Figure 4.3 Device Holder

4.4. DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.



Figure 4.4 EX3DV4 E-field Probe

5.4.1. EX3DV4 Probe Specification

Construction	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 HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: PRS-T2 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). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

4.5. E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. The sensitivity parameters (Norm X, Norm Y, Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where: Δt = Exposure time (30 seconds),
 C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.
 Or

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

Where:
 σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m^3).

4.6. Scanning procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

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. The indicated drift is mainly the variation of the EUT's output power and should vary max. $\pm 5\%$.

The "surface check" measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles.

The difference between the optical surface detection and the actual surface depends on the Probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged.

After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Sheppard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

5. DATA STORAGE AND EVALUATION

5.1. Data Storage

The DASY5 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 ".DA4". 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], [mW/g], [mW/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.

5.2. 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
 - Conversion factor ConvFi
 - Diode compression point Dcpi

Device parameters: - Frequency
 - Crest factor cf

Media parameters: - Conductivity
 - Density

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 DASY5 components. In the direct measuring mode of the millimeter 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 V_i = compensated signal of channel i ($i = x, y, z$)

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field (DASY parameter)

dcpi = diode compression point (DASY parameter)

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

E-field probes: $E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$

With V_i = compensated signal of channel i ($i = x, y, z$)

Norm_i = sensor sensitivity of channel i ($i = x, y, z$)

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

$$SAR = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with

SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

= 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.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \quad \text{or} \quad P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

6. SYSTEM CHECK

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulates, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the ANNEX A.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

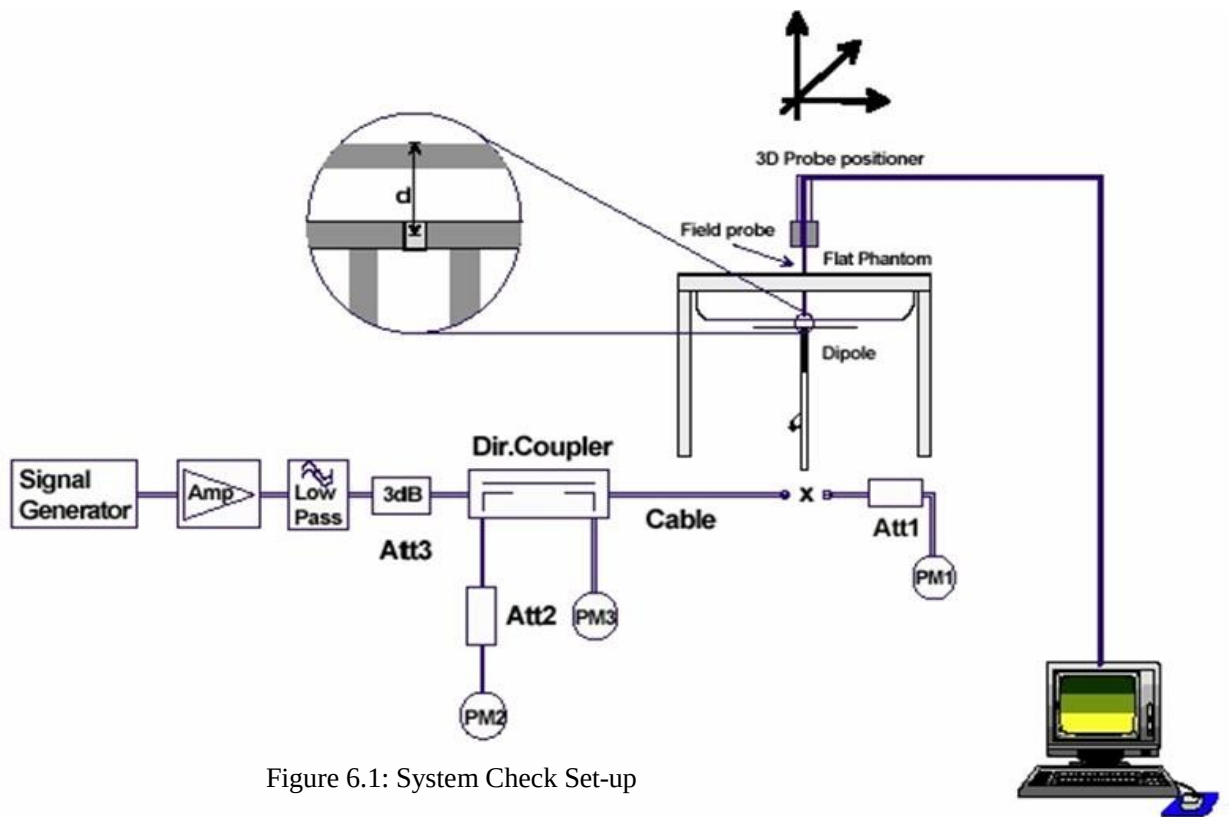


Figure 6.1: System Check Set-up

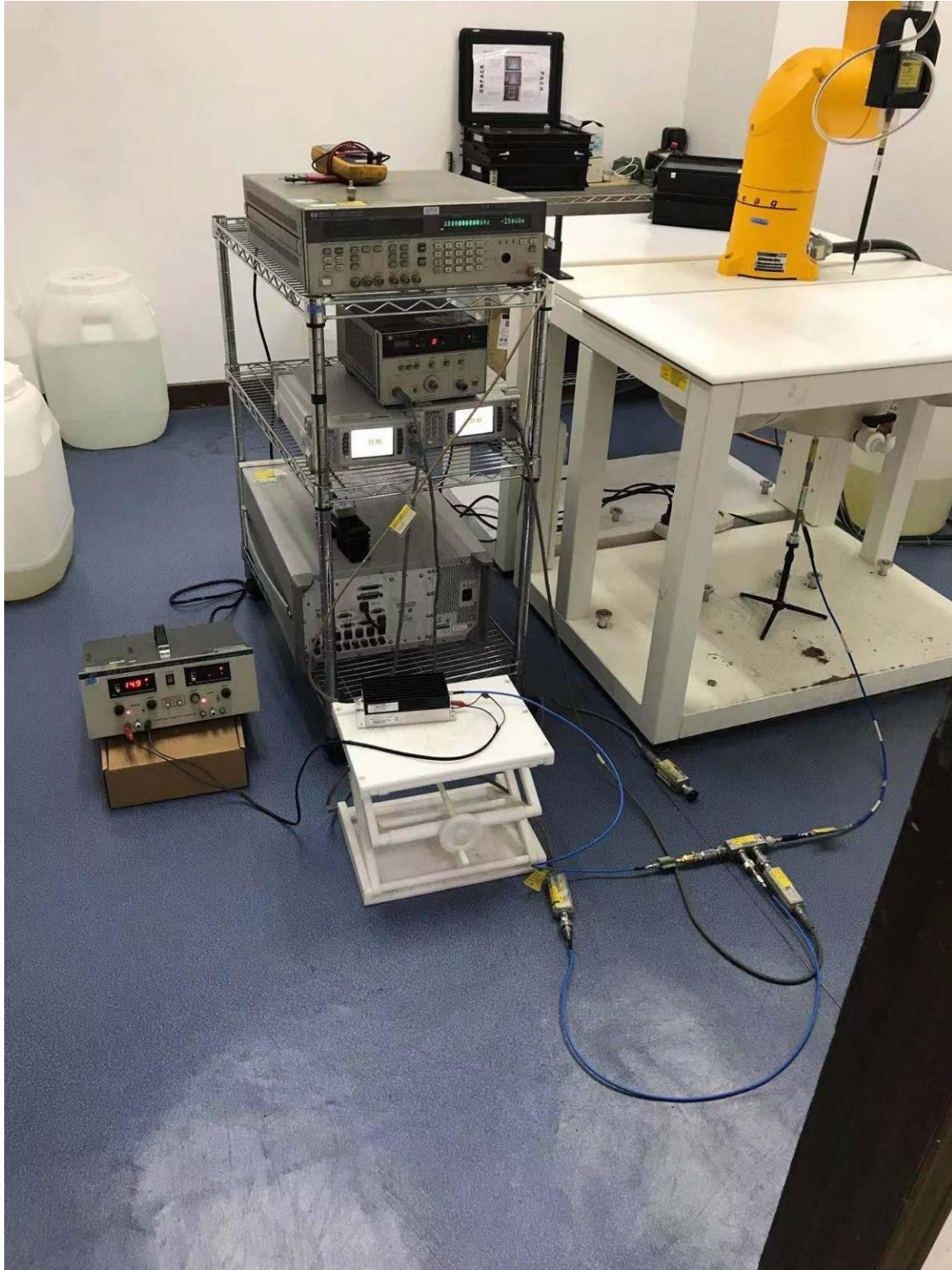


Figure 6.3: photos of system

7. TEST RESULTS

7.1. Output power

BT Power Table		
Test Mode	channel	Peak Out Power (dBm)
GFSK	0	9.26
	39	9.49
	78	9.4
8-DPSK	0	6.95
	39	6.67
	78	7.05
BLE1M	0	4.78
	19	4.38
	39	5.15
BLE2M	0	4.78
	19	4.09
	39	5.14

Table 7-11 HrP2 1216 FCC max Tx power

HrP 1216 2.4GHz – 20MHz FCC						
		20MHz CCK		20MHz OFDM		
Central Freq.	Control / Central Channel	CCK SISO A	CCK SISO B	OFDM SISO A	OFDM SISO B	OFDM MIMO
2412	1	19	18.75	16.25	16.5	13.5
2417	2	20	20	18	18	16
2422	3	20	20	19.5	19.5	17
2427	4	20	20	19.5	19.5	17
2432	5	20	20	19.5	19.5	17
2437	6	20	20	19.5	19.5	17
2442	7	20	20	19.5	19.5	16.5
2447	8	20	20	19.5	19.5	16.5
2452	9	20	20	19.5	19.5	16.5
2457	10	20	20	18.25	18.25	16
2462	11	19	19	15	14.5	13
2467	12	18	18	14.5	14.5	12.5
2472	13	18.5	18.5	12.25	12	10

Note: 40MHz CCK is not supported by this product.

HrP 1216 2.4GHz – 40MHz FCC						
		40MHz CCK		40MHz OFDM		
Central Freq.	Control / Central Channel	CCK SISO A	CCK SISO B	OFDM SISO A	OFDM SISO B	OFDM MIMO
2422	3	9.5	9.5	16	16	13.75
2427	4	15.5	15.5	16	16	14
2432	5	15.5	15.5	17	17	15
2437	6	15.5	15.5	15.5	15.5	14
2442	7	15.5	15.5	15	15	13.25
2447	8	15.5	15.5	15	15	13.25
2452	9	9.5	9.5	14	15	12.5
2457	10	9.5	9.5	12	12	9
2462	11	9.5	9.5	12.5	12.25	11

HrP 1216 5GHz – 20MHz FCC				
		20MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5180	36	18	18	15.25
5200	40	19	19.5	17.5
5220	44	20	20	18
5240	48	20	20	18
5260	52	20	20	18
5280	56	20	20	18
5300	60	20	20	17.5
5320	64	17.5	17.75	15.5
5340	68	Not Supported		
5360	72			
5380	76			
5400	80			
5420	84			
5440	88			
5460	92			
5480	96			
5500	100	18.5	18.5	15.25
5520	104	20	20	18.25
5540	108	20	20	18.25
5560	112	20	20	18.25
5580	116	20	20	18.25
5600	120	20	20	18.25
5620	124	20	20	18.25
5640	128	20	20	18.25
5660	132	20	20	18.25
5680	136	20	20	18.25
5700	140	17	17.5	14.5
5720	144	20	20	18
5745	149	20	20	17.5
5765	153	20	20	17.5
5785	157	20	20	17.5
5805	161	20	20	17.5
5825	165	20	20	17.5
5845	169	Not Supported		
5865	173			

		20MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5885	177	Not Supported		
5905	181			

HrP 1216 5GHz – 40MHz FCC				
		40MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5190	38	18	18	15.25
5230	46	20	20	18
5270	54	20	20	18
5310	62	16.75	16.75	14.25
5350	70	Not Supported		
5390	78			
5430	86			
5470	94			
5510	102	17.75	17.75	15.75
5550	110	20	20	18
5590	118	20	20	18
5630	126	20	20	18
5670	134	18.75	18.75	17.5
5710	142	20	20	19
5755	151	20	20	18
5795	159	20	20	18
5835	167	Not Supported		
5875	175			

HrP 1216 5GHz – 80MHz FCC				
		80MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5210	42	18	17.75	15.5
5290	58	17.25	17.25	14
5370	74	Not Supported		
5450	90			

HrP 1216 5GHz – 80MHz FCC				
		80MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5530	106	18.25	18.25	15.5
5610	122	19.25	19.25	17.75
5690	138	20	20	18.5
5775	155	18	18	16
5855	171	Not Supported		

HrP 1216 5GHz – 160MHz FCC				
		160MHz OFDM		
Central Freq.	Control / Central Channel	OFDM SISO A	OFDM SISO B	OFDM MIMO
5250	50	14.25	14.75	12.25
5410	82	Not Supported		
5570	114	13.75	14	12.75
5815	163	Not Supported		

7.2. System Check & Tissue simulating liquid

Frequency	Description	SAR		Dielectric Parameters (±10% for window)		Temp
		1g	10g	σ (s/m)	ϵ_r	°C
2450MHz	Recommended value	13.5 10.962-16.038	6.29 5.11377-7.46623	1.80 1.62-1.98	39.2 35.28-43.12	/
	Measurement value 2026-05-06	11.26	5.24	1.875	38.721	22.05
5250MHz	Recommended value	7.88 5.95728-9.80272	2.23 1.69034-2.76966	4.71 4.239-5.181	35.9 32.31-39.49	/
	Measurement value 2026-05-07	7.59	2.42	4.748	36.962	22.03
5600MHz	Recommended value	8.20 6.1992-10.2008	2.32 1.75856-2.88144	5.07 4.563-5.577	35.5 31.95-39.05	/
	Measurement value 2026-05-08	8.72	2.43	5.216	36.212	22.03
5750MHz	Recommended value	7.75 5.859-9.641	2.17 1.64486-2.69514	5.22 4.698-5.742	35.4 31.86-38.94	/
	Measurement value 2026-05-09	6.96	1.87	5.373	35.952	22.03

Test Laboratory: Audix SAR Lab

Date: 06/05/2026

CW 2450

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:862

Communication System: UID 0, CW (0); Communication System Band: D2450

(2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.875$ S/m; $\epsilon_r = 38.721$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7957; ConvF(7.1, 7.27, 7.53) @ 2450 MHz; Calibrated: 2025/10/6
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 2025/6/19
- Phantom: ELI V4.0 (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/CW 2450MHz/Area Scan (61x71x1): Interpolated grid:

$dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 14.8 W/kg

Configuration/CW 2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 77.43 V/m; Power Drift = 0.07 dB

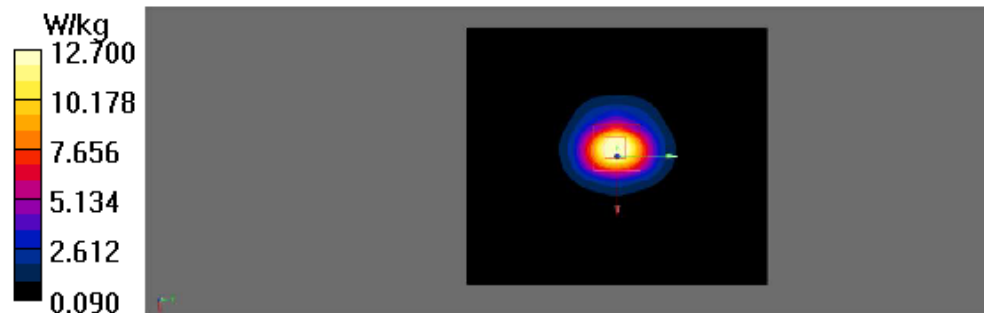
Peak SAR (extrapolated) = 22.6 W/kg

SAR(1 g) = 11.26 W/kg; SAR(10 g) = 5.24 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 12.7 W/kg



Test Laboratory: Audix SAR Lab

Date: 07/05/2026

CW 5250

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102

Communication System: UID 0, CW (0); Communication System Band: D5GHz

(5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.748$ S/m; $\epsilon_r = 36.962$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7957; ConvF(5.44, 5.57, 5.77) @ 5250 MHz; Calibrated: 2025/10/6
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 2025/6/19
- Phantom: ELI V4.0 (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/CW 5250MHz/Area Scan (61x71x1): Interpolated grid:

$dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 6.55 W/kg

Configuration/CW 5250MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 39.22 V/m; Power Drift = 0.05 dB

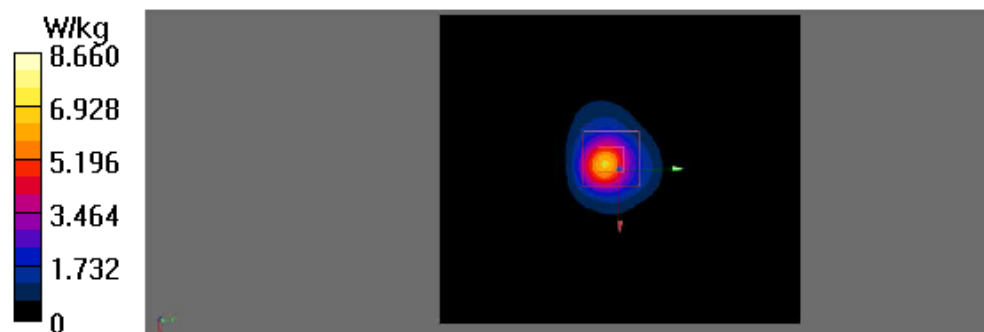
Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.42 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 18.7%

Maximum value of SAR (measured) = 8.66 W/kg



Test Laboratory: Audix SAR Lab

Date: 08/05/2026

CW 5600

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102

Communication System: UID 0, CW (0); Communication System Band: D5GHz

(5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.216$ S/m; $\epsilon_r = 36.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7957; ConvF(4.99, 5.11, 5.3) @ 5600 MHz; Calibrated: 2025/10/6
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 2025/6/19
- Phantom: ELI V4.0 (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/CW 5600MHz/Area Scan (61x71x1): Interpolated grid:

$dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 4.97 W/kg

Configuration/CW 5600MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 32.58 V/m; Power Drift = 0.05 dB

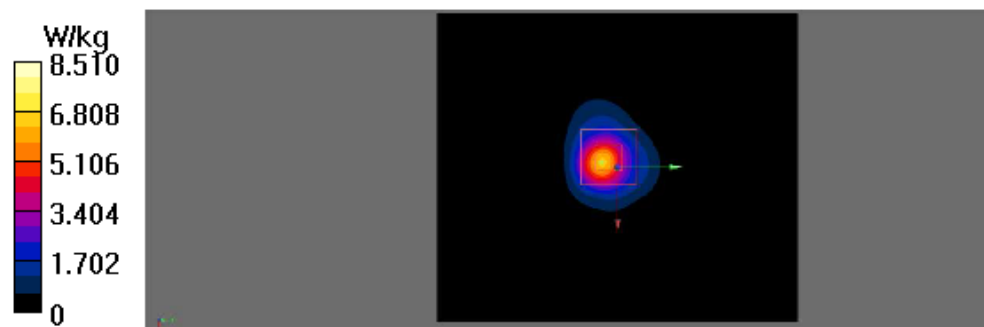
Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 8.72 W/kg; SAR(10 g) = 2.43 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 16.3%

Maximum value of SAR (measured) = 6.51 W/kg



Test Laboratory: Audix SAR Lab

Date: 09/05/2026

CW 5750

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102

Communication System: UID 0, CW (0); Communication System Band: D5GHz

(5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.373$ S/m; $\epsilon_r = 35.952$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7957; ConvF(4.84, 4.95, 5.13) @ 5750 MHz; Calibrated: 2025/10/6
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 2025/6/19
- Phantom: ELI V4.0 (20deg probe tilt); Type: QD OVA 001 Bx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Configuration/CW 5750MHz/Area Scan (61x71x1): Interpolated grid:

$dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 4.73 W/kg

Configuration/CW 5750MHz/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 30.99 V/m; Power Drift = 0.02 dB

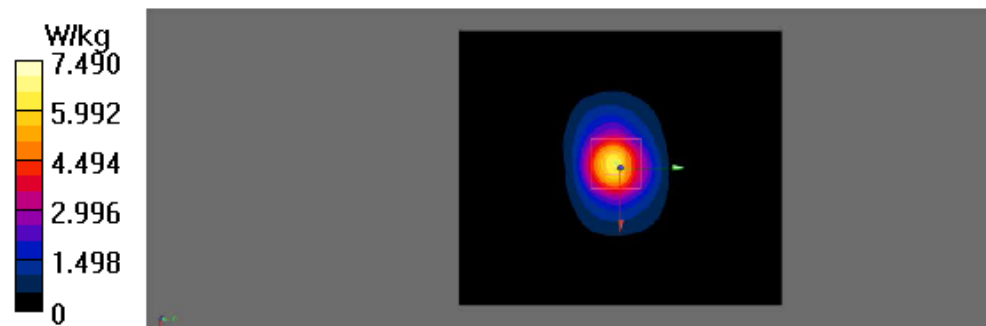
Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 6.96 W/kg; SAR(10 g) = 1.87 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 15.8%

Maximum value of SAR (measured) = 5.42 W/kg



7.3. Dielectric Performance for Body Tissue simulating liquid

Frequency		Description	Dielectric Parameters (±10% window)		Temp
			σ (s/m)	ϵ_r	°C
WiFi 2.4GHz	2412MHz	Recommended value	1.80 1.62-1.98	39.2 35.28-43.12	/
		Measurement value 2026-05-06	1.841	38.849	22.05
	2442MHz	Recommended value	1.80 1.62-1.98	39.2 35.28-43.12	/
		Measurement value 2026-05-06	1.879	38.731	22.05
	2472MHz	Recommended value	1.80 1.62-1.98	39.2 35.28-43.12	/
		Measurement value 2026-05-06	1.908	38.627	22.05
WiFi 5GHz Band 1	5180MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.684	37.155	22.03
	5200MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.705	37.1	22.03
	5240MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.753	37.005	22.03
WiFi 5GHz Band 2	5260MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.784	36.955	22.03
	5300MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.828	36.891	22.03
	5320MHz	Recommended value	4.71 4.239-5.181	35.9 32.31-39.49	/
		Measurement value 2026-05-07	4.853	36.837	22.03

WiFi 5GHz Band 3	5500MHz	Recommended value	5.07 4.563-5.577	35.5 31.95-39.05	/
		Measurement value 2026-05-08	5.086	36.47	22.03
	5600MHz	Recommended value	5.07 4.563-5.577	35.5 31.95-39.05	/
		Measurement value 2026-05-08	5.211	36.23	22.03
	5700MHz	Recommended value	5.07 4.563-5.577	35.5 31.95-39.05	/
		Measurement value 2026-05-08	5.331	35.995	22.03
WiFi 5GHz Band 4	5745MHz	Recommended value	5.22 4.698-5.742	35.4 31.86-38.94	/
		Measurement value 2026-05-09	5.379	35.957	21.04
	5785MHz	Recommended value	5.22 4.698-5.742	35.4 31.86-38.94	/
		Measurement value 2026-05-09	5.419	35.836	21.04
	5825MHz	Recommended value	5.22 4.698-5.742	35.4 31.86-38.94	/
		Measurement value 2026-05-09	5.491	35.748	21.04

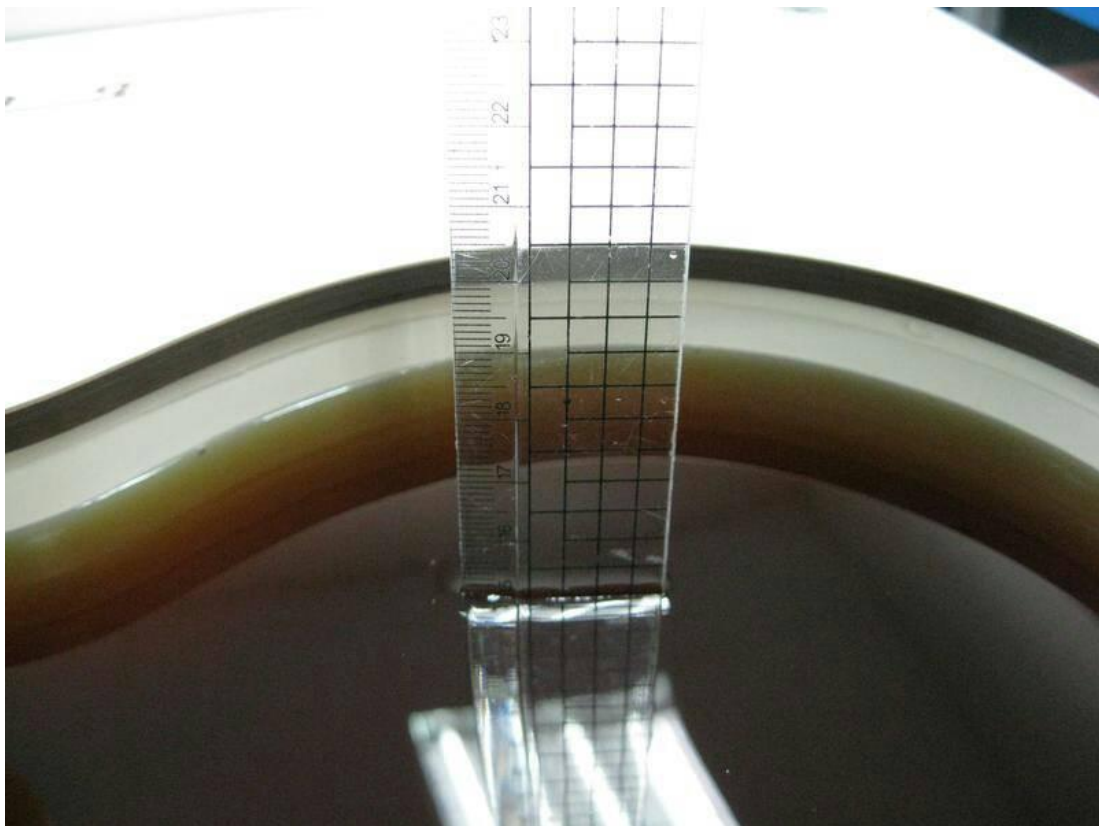
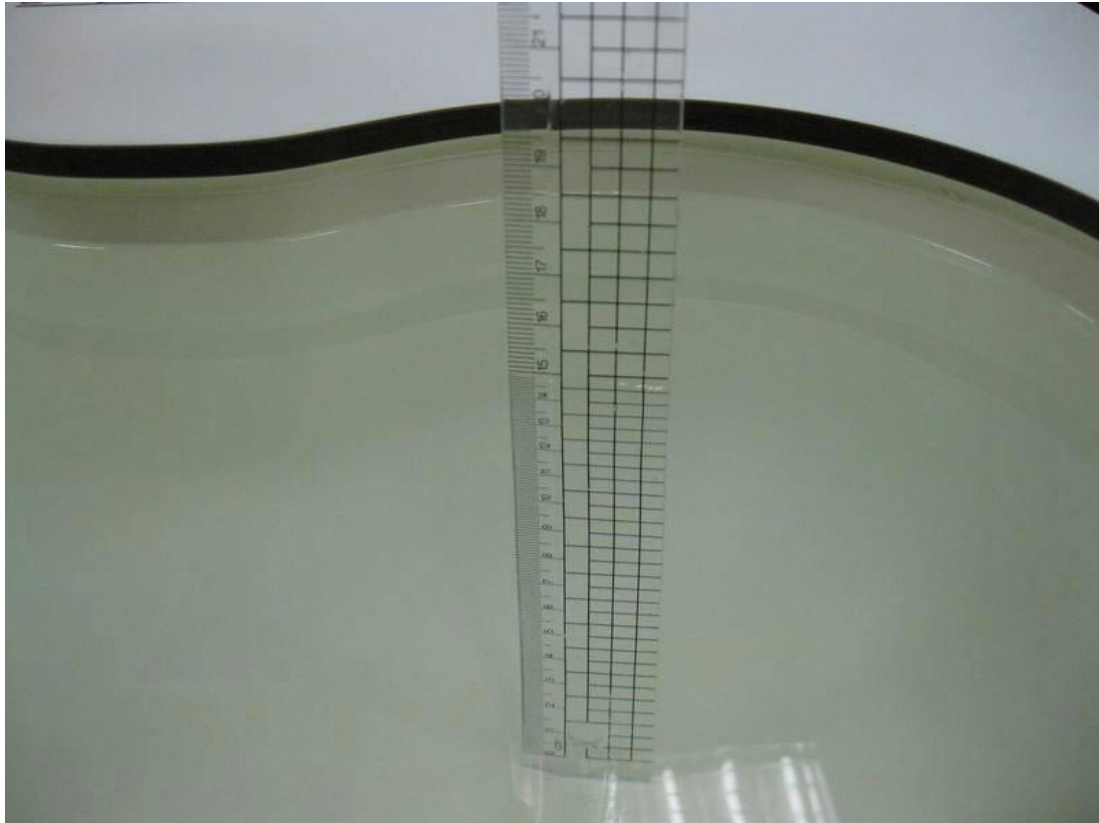


Figure 4.4: Liquid depth in the Flat Phantom

7.4. Test Results

SAR Test Record For BT:

Remark	Test Position	distance	Band	Mode	Test CH	SAR(W/kg) 1g	SAR(W/kg) 10g	Power Drift (dB)	Duty cycle	Conducted	Tune up	SAR 1g	SAR 10g
Ant1	Back	0mm	BT	DH5	0	0.014	0.007	0.06	0.75	9.26	10	0.021	0.01
Ant1	Back	0mm	BT	DH5	39	0.014	0.007	0.2	0.75	9.49	10	0.021	0.01
Ant1	Back	0mm	BT	DH5	78	0.015	0.008	-0.07	0.75	9.4	10	0.022	0.012

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For WIFI 2.4G:

Remark	Test Position	distance	Band	Mode	Test CH	SAR(W/kg) 1g	SAR(W/kg) 10g	Power Drift (dB)	Duty cycle	Conducted	Tune up	SAR 1g	SAR 10g
Ant1	Back	0mm	2.4G	11b	1	0.049	0.025	0.13	1	19	20	0.062	0.031
Ant1	Back	0mm	2.4G	11b	7	0.05	0.025	0.16	1	20	21	0.063	0.031
Ant1	Back	0mm	2.4G	11b	13	0.05	0.027	0.17	1	18.5	19.3	0.06	0.032
Ant2	Back	0mm	2.4G	11b	1	0.802	0.453	-0.14	1	18.75	19.3	0.91	0.514
Ant2	Back	0mm	2.4G	11b	7	0.807	0.467	-0.17	1	20	21	1.016	0.588
Ant2	Back	0mm	2.4G	11b	13	0.808	0.474	-0.10	1	18.5	19.3	0.971	0.57
Ant2	Bottom	0mm	2.4G	11b	13	0.26	0.123	-0.09	1	18.5	19.3	0.313	0.148
Ant2	Right	0mm	2.4G	11b	13	0.371	0.168	-0.02	1	18.5	19.3	0.446	0.202

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For WIFI 5G:

Remark	Test Position	distance	Band	Mode	Test CH	SAR(W/kg) 1g	SAR(W/kg) 10g	Power Drift (dB)	Duty cycle	Conducted	Tune up	SAR 1g	SAR 10g
Ant1	Back	0mm	Band1	11a	36	0.23	0.078	-0.02	1	18	19	0.29	0.098
Ant1	Back	0mm	Band1	11a	40	0.225	0.077	0.17	1	19	20	0.283	0.097
Ant1	Back	0mm	Band1	11a	48	0.236	0.078	0.1	1	20	21	0.297	0.098
Ant1	Back	0mm	Band2	11a	52	0.264	0.086	0.16	1	20	21	0.332	0.108
Ant1	Back	0mm	Band2	11a	60	0.275	0.088	0.19	1	20	21	0.346	0.111
Ant1	Back	0mm	Band2	11a	64	0.270	0.097	0.14	1	17.5	18.3	0.325	0.117
Ant1	Back	0mm	Band3	11a	100	0.286	0.096	0.15	1	18.5	19.3	0.344	0.115
Ant1	Back	0mm	Band3	11a	120	0.277	0.090	0.05	1	20	21	0.349	0.113
Ant1	Back	0mm	Band3	11a	140	0.318	0.105	0.16	1	17	18	0.4	0.132
Ant1	Back	0mm	Band4	11a	149	0.318	0.102	0.16	1	20	21	0.4	0.128
Ant1	Back	0mm	Band4	11a	157	0.311	0.103	0.14	1	20	21	0.392	0.13
Ant1	Back	0mm	Band4	11a	165	0.324	0.104	0.17	1	20	21	0.408	0.131
Ant2	Back	0mm	Band1	11a	36	0.465	0.172	-0.09	1	18	19	0.585	0.217
Ant2	Back	0mm	Band1	11a	40	0.471	0.174	-0.02	1	19.5	20.3	0.566	0.209
Ant2	Back	0mm	Band1	11a	48	0.614	0.208	0.09	1	20	21	0.773	0.262
Ant2	Bottom	0mm	Band1	11a	48	0.440	0.141	-0.18	1	20	21	0.554	0.178
Ant2	Right	0mm	Band1	11a	48	0.225	0.088	0.01	1	20	21	0.283	0.111
Ant2	Back	0mm	Band2	11a	52	0.488	0.183	0.01	1	20	21	0.614	0.23
Ant2	Back	0mm	Band2	11a	60	0.503	0.188	-0.06	1	20	21	0.633	0.237
Ant2	Back	0mm	Band2	11a	64	0.501	0.193	0.15	1	17.75	18.3	0.569	0.219
Ant2	Bottom	0mm	Band2	11a	64	0.480	0.149	0.04	1	17.75	18.3	0.545	0.169
Ant2	Right	0mm	Band2	11a	64	0.248	0.095	0.01	1	17.75	18.3	0.281	0.108
Ant2	Back	0mm	Band3	11a	100	0.549	0.215	-0.19	1	18.5	19.3	0.66	0.258
Ant2	Bottom	0mm	Band3	11a	100	0.464	0.180	0.08	1	18.5	19.3	0.558	0.216
Ant2	Right	0mm	Band3	11a	100	0.271	0.105	0.10	1	18.5	19.3	0.326	0.126
Ant2	Back	0mm	Band3	11a	120	0.552	0.209	-0.16	1	20	21	0.695	0.263
Ant2	Back	0mm	Band3	11a	140	0.591	0.229	-0.01	1	17.5	18.3	0.711	0.275
Ant2	Back	0mm	Band4	11a	149	0.576	0.227	0.05	1	20	21	0.725	0.286
Ant2	Bottom	0mm	Band4	11a	149	0.456	0.209	0.01	1	20	21	0.574	0.263
Ant2	Right	0mm	Band4	11a	149	0.409	0.143	0.16	1	20	21	0.515	0.18
Ant2	Back	0mm	Band4	11a	157	0.584	0.227	0.09	1	20	21	0.735	0.286
Ant2	Back	0mm	Band4	11a	165	0.596	0.234	0.08	1	20	21	0.75	0.295

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Total SAR:

WLAN 2.4G			Total SAR 1g	Limit
Position	Ant1	Ant2		
Back	0.063	1.016	1.079	1.6W/kg

WLAN 5G			Total SAR 1g	Limit
Position	Band1			
	Ant1	Ant2		
Back	0.297	0.773	1.070	1.6W/kg

WLAN 5G			Total SAR 1g	Limit
Position	Band2			
	Ant1	Ant2		
Back	0.346	0.633	0.979	1.6W/kg

WLAN 5G			Total SAR 1g	Limit
Position	Band3			
	Ant1	Ant2		
Back	0.400	0.711	1.111	1.6W/kg

WLAN 5G			Total SAR 1g	Limit
Position	Band4			
	Ant1	Ant2		
Back	0.408	0.750	1.158	1.6W/kg