

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

Product Name	Rugged Tablet
Brand Name	
Model No.	Y302-01
Applicant	DT Research, Inc. 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	YE3600-AX210NG
Date of EUT Receipt	Sep. 25, 2023
Date of Test(s)	Oct. 11, 2023 ~ Oct. 19, 2023
Date of Issue	Nov. 15, 2023

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Ruby Ou	Approved By / John Yeh
Kimmy Chiou	Ruby Ou	John Yeh

Date: Nov. 15, 2023

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Revision History

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

IEC TR 63170:2018

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1.2 Description of EUT

Product Name	Rugged Tablet		
Brand Name			
Model No.	Y302-01		
FCC ID	YE3600-AX210NG		
Duty Cycle	WLAN802.11	Please refer to section 7	
Supported radios (TX Frequency Range, MHz)	802.11 a/n/ac/ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)	

1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m^2)	Highest PD (W/m^2)
6G WLAN	1.18	8.07	9.59

1.4 Antenna Information

Antenna	Main
Part Number	AJ6F1J-B0003
Frequency(MHz)	5925~7125
Gain (dBi)	2.1dBi
Antenna	Aux
Part Number	AJ6F1J-W0001
Frequency(MHz)	5925~7125
Gain (dBi)	2.3dBi

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.	SAR 2	TW0029	TW3702	
		SAR 6			
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028		
		SAR 4			
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027		
		SAR 7			

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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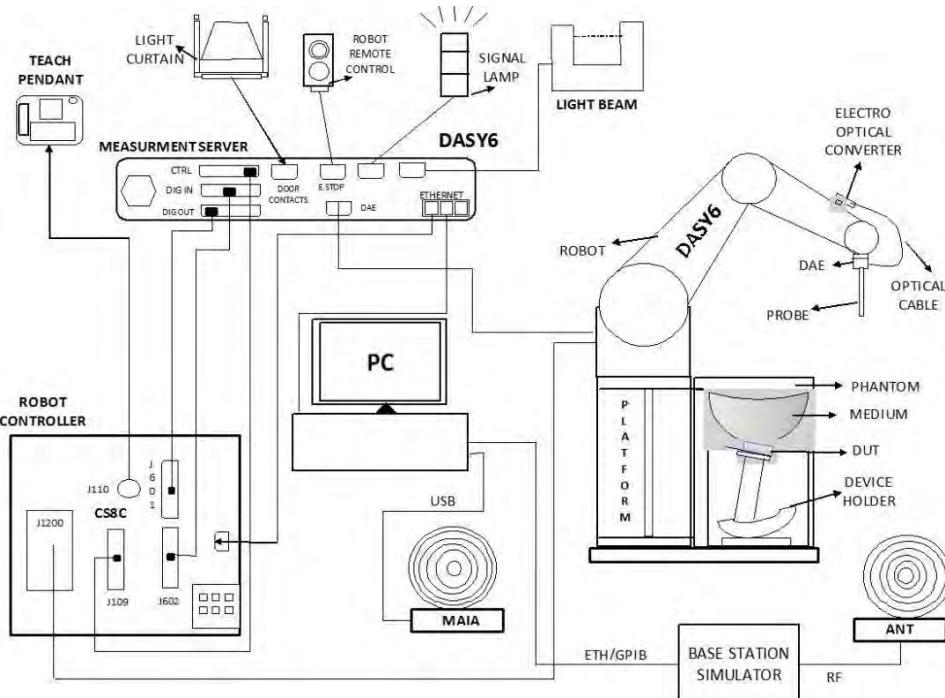
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2.2 SAR System

Block Diagram (DASY6)

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 6500/7000 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 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 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 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%.	

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PHANTOM (ELI)

Model	ELI
Construction	The ELI phantom is used 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.
Shell Thickness	2 ± 0.2 mm
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm Minor axis: 400 mm

**DEVICE HOLDER**

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 Device Holder
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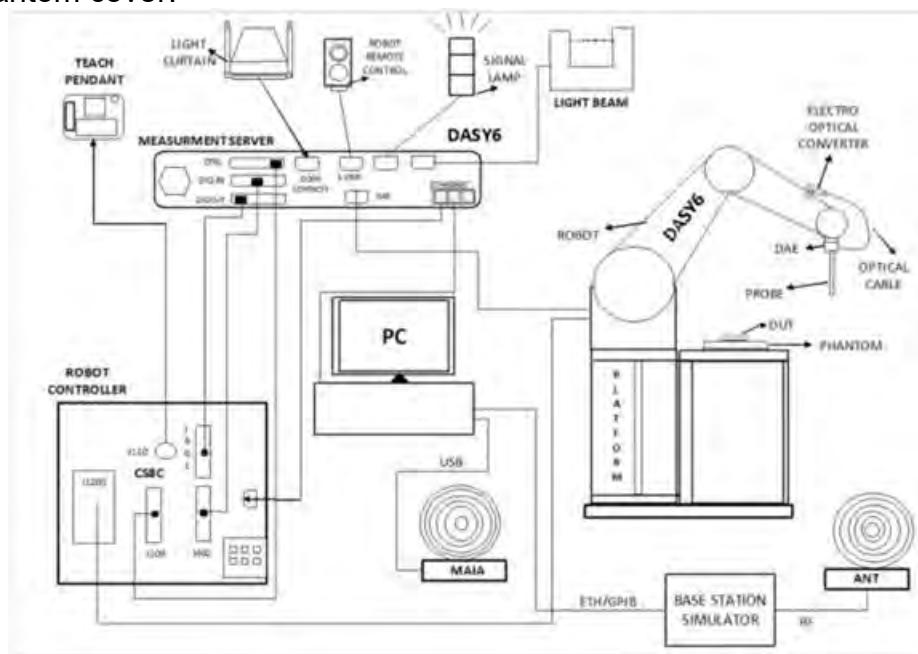
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2.3 PD system

Block Diagram (DASY6)

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consists of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

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	Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space). Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher

mmWave Phantom

The mmWave Phantom approximates free-space conditions, allowing for the evaluation of the antenna side of the device and the front (screen) side or any opposite-radiating side of wireless devices operating above 10 GHz without distorting the RF field. It consists of a 40mm thick Rohacell plate used as a test bed, which has a loss tangent ($\tan \delta$) ≤ 0.05 and a relative permittivity (ϵ_r) ≤ 1.2 . High-performance RF absorbers are placed below the foam.

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
6025	35.070	5.510	36.028	5.685	2.73%	3.18%	$\pm 5\%$	Oct. 17, 2023
6185	34.878	5.698	35.839	5.859	2.76%	2.83%	$\pm 5\%$	Oct. 17, 2023
6345	34.686	5.887	35.644	6.031	2.76%	2.45%	$\pm 5\%$	Oct. 17, 2023
6500	34.500	6.070	35.465	6.200	2.80%	2.14%	$\pm 5\%$	Oct. 17, 2023
6505	34.494	6.076	35.459	6.202	2.80%	2.07%	$\pm 5\%$	Oct. 17, 2023
6665	34.302	6.261	35.255	6.381	2.78%	1.92%	$\pm 5\%$	Oct. 17, 2023
6825	34.110	6.447	35.081	6.552	2.85%	1.63%	$\pm 5\%$	Oct. 17, 2023
6985	33.918	6.633	34.878	6.731	2.83%	1.48%	$\pm 5\%$	Oct. 13, 2023
7000	33.900	6.650	34.863	6.745	2.84%	1.43%	$\pm 5\%$	Oct. 13, 2023

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3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

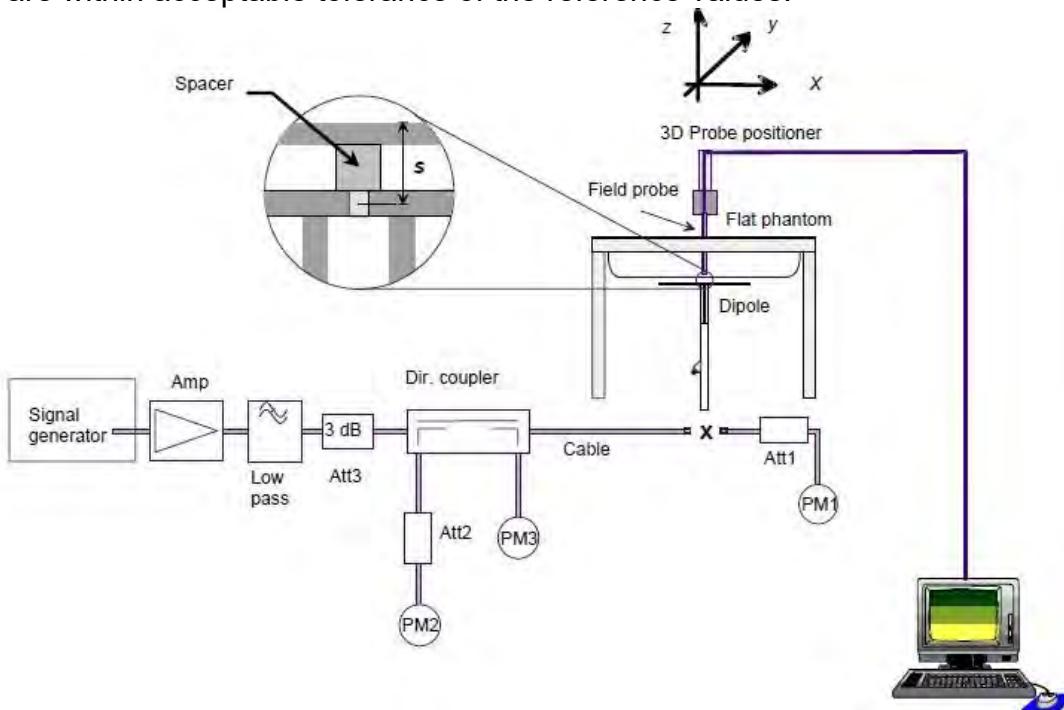
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI 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 DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above 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.



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	296	30.3	303	2.36	± 10%	Oct.17,2023
D7GHzV2	1007	7000	281	26.4	264	-6.05	± 10%	Oct.13,2023

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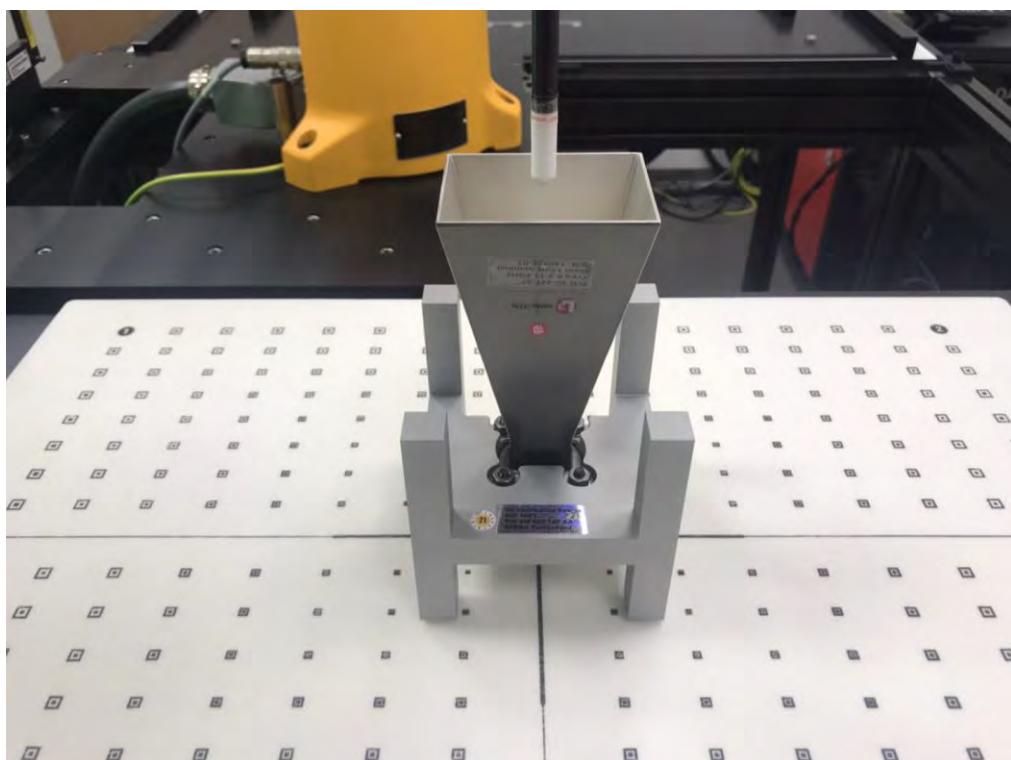
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4 PD SYSTEM VERIFICATION

4.1 System check

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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4.2 System check result

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9399	856	10	86.1	56.8	55.6	0.09	Oct.19,2023

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5 TEST CONFIGURATIONS

5.1 Test Environment

Ambient Temperature: $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid: $22 \pm 2^\circ \text{C}$

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8 \text{ W/kg}$, when the transmission band is $\leq 100 \text{ MHz}$.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8 \text{ W/kg}$, repeated that measurement once. 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 $\geq 1.45 \text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ with the grid step (0.0625λ) for determining compliance at $d=2\text{mm}$.
- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.
- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.
- For WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with or less than that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted MIMO SAR measurement.

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5.3 Test position

Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. 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. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

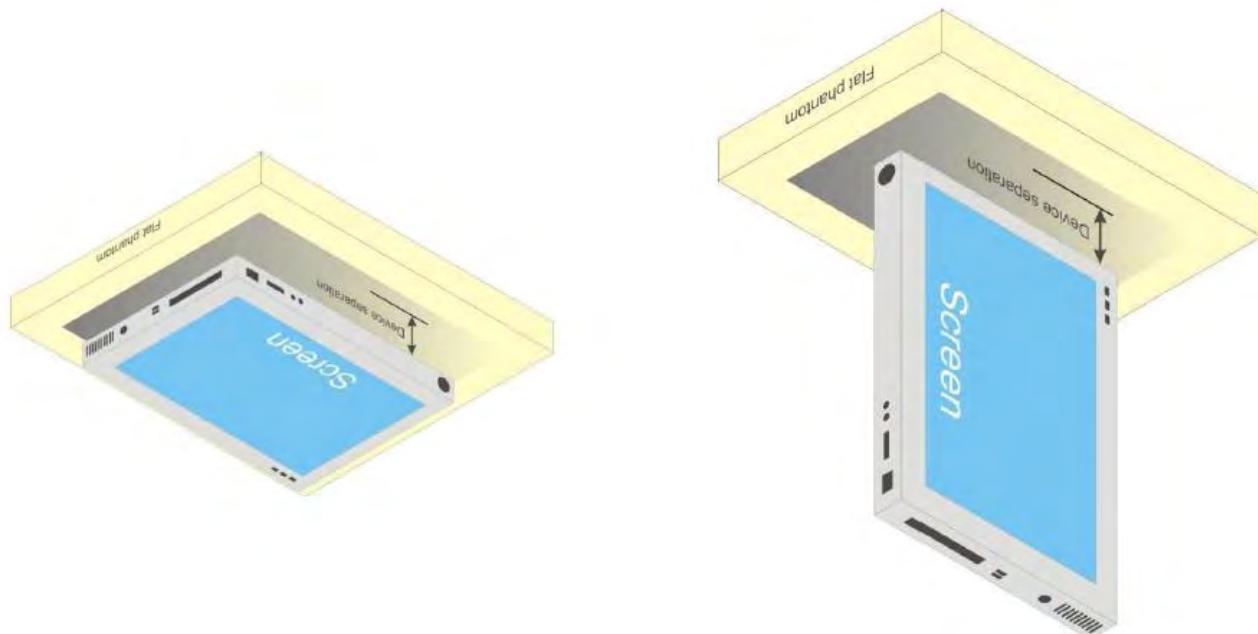


Illustration for Tablet Setup

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5.4 Test limit

§ 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

§ 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

§ 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radiofrequency

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Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
-----------------------	-------------------------------	-------------------------------	-------------------------------------	--------------------------

(i) Limits for Occupational/Controlled Exposure

0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6

(ii) Limits for General Population/Uncontrolled Exposure

0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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6 MAXIMUM OUTPUT POWER

6.1 WIFI 6E

Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	10.50	10.16
		45	6175		10.50	10.19
		93	6415		10.50	10.22
	802.11n20-HT0	1	5955	MCS0	10.50	10.24
		45	6175		10.50	10.25
		93	6415		10.50	10.30
	802.11ac20-VHT0	1	5955	MCS0	10.50	10.31
		45	6175		10.50	10.26
		93	6415		10.50	10.23
	802.11ax20-HE0	1	5955	MCS0	10.50	10.24
		45	6175		10.50	10.28
		93	6415		10.50	10.31
	802.11n40-HT0	3	5965	MCS0	10.50	10.26
		43	6165		10.50	10.22
		91	6405		10.50	10.30
	802.11ac40-VHT0	3	5965	MCS0	10.50	10.22
		43	6165		10.50	10.15
		91	6405		10.50	10.19
	802.11ax40-HE0	3	5965	MCS0	10.50	10.26
		43	6165		10.50	10.31
		91	6405		10.50	10.21
	802.11ac80-VHT0	7	5985	MCS0	10.50	10.33
		39	6145		10.50	10.23
		87	6385		10.50	10.30
	802.11ax80-HE0	7	5985	MCS0	10.50	10.16
		39	6145		10.50	10.23
		87	6385		10.50	10.18
	802.11ac160-VHT0	15	6025	MCS0	10.50	10.23
		47	6185		10.50	10.27
		79	6345		10.50	10.19
	802.11ax160-HE0	15	6025	MCS0	10.50	10.48
		47	6185		10.50	10.37
		79	6345		10.50	10.45

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	12.50	12.34
		105	6475		12.50	12.37
		113	6515		12.50	12.33
	802.11n20-HT0	97	6435	MCS0	12.50	12.41
		105	6475		12.50	12.25
		113	6515		12.50	12.34
	802.11ac20-VHT0	97	6435	MCS0	12.50	12.35
		105	6475		12.50	12.33
		113	6515		12.50	12.31
	802.11ax20-HE0	97	6435	MCS0	12.50	12.28
		105	6475		12.50	12.34
		113	6515		12.50	12.30
	802.11n40-HT0	99	6445	MCS0	12.50	12.38
		107	6485		12.50	12.43
	802.11ac40-VHT0	99	6445	MCS0	12.50	12.26
		107	6485		12.50	12.41
	802.11ax40-HE0	99	6445	MCS0	12.50	12.32
		107	6485		12.50	12.43
	802.11ac80-VHT0	103	6465	MCS0	12.50	12.39
		119	6545		12.50	12.36
	802.11ax80-HE0	103	6465	MCS0	12.50	12.35
		119	6545		12.50	12.45
	802.11ac160-VHT0	111	6505	MCS0	12.50	12.37
	802.11ax160-HE0	111	6505	MCS0	12.50	12.47

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	12.50	12.33
		149	6695		12.50	12.36
		181	6855		12.50	12.37
	802.11n20-HT0	117	6535	MCS0	12.50	12.27
		149	6695		12.50	12.20
		181	6855		12.50	12.25
	802.11ac20-VHT0	117	6535	MCS0	12.50	12.38
		149	6695		12.50	12.24
		181	6855		12.50	12.22
	802.11ax20-HE0	117	6535	MCS0	12.50	12.28
		149	6695		12.50	12.34
		181	6855		12.50	12.20
	802.11n40-HT0	115	6525	MCS0	12.50	12.30
		147	6685		12.50	12.18
		179	6845		12.50	12.11
	802.11ac40-VHT0	115	6525	MCS0	12.50	12.27
		147	6685		12.50	12.35
		179	6845		12.50	12.31
	802.11ax40-HE0	115	6525	MCS0	12.50	12.26
		147	6685		12.50	12.27
		179	6845		12.50	12.29
	802.11ac80-VHT0	135	6625	MCS0	12.50	12.30
		151	6705		12.50	12.26
		167	6785		12.50	12.37
	802.11ax80-HE0	135	6625	MCS0	12.50	12.19
		151	6705		12.50	12.16
		167	6785		12.50	12.37
	802.11ac160-VHT0	143	6665	MCS0	12.50	12.33
		175	6825		12.50	12.32
	802.11ax160-HE0	143	6665	MCS0	12.50	12.46
		175	6825		12.50	12.42

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	13.00	12.87
		209	6995		13.00	12.72
		233	7115		13.00	12.83
	802.11n20-HT0	185	6875	MCS0	13.00	12.87
		209	6995		13.00	12.78
		233	7115		13.00	12.90
	802.11ac20-VHT0	185	6875	MCS0	13.00	12.83
		209	6995		13.00	12.86
		233	7115		13.00	12.88
	802.11ax20-HE0	185	6875	MCS0	13.00	12.75
		209	6995		13.00	12.77
		233	7115		13.00	12.90
	802.11n40-HT0	187	6885	MCS0	13.00	12.76
		227	7085		13.00	12.87
	802.11ac40-VHT0	187	6885	MCS0	13.00	12.74
		227	7085		13.00	12.84
	802.11ax40-HE0	187	6885	MCS0	13.00	12.92
		227	7085		13.00	12.79
	802.11ac80-VHT0	183	6865	MCS0	13.00	12.82
		199	6945		13.00	12.84
		215	7025		13.00	12.75
	802.11ax80-HE0	183	6865	MCS0	13.00	12.85
		199	6945		13.00	12.83
		215	7025		13.00	12.82
	802.11ac160-VHT0	207	6985	MCS0	13.00	12.83
	802.11ax160-HE0	207	6985	MCS0	13.00	12.96

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11a	1	5955	6Mbps	13.00	12.71
		45	6175		13.00	12.82
		93	6415		13.00	12.68
	802.11n20-HT0	1	5955	MCS0	13.00	12.86
		45	6175		13.00	12.79
		93	6415		13.00	12.81
	802.11ac20-VHT0	1	5955	MCS0	13.00	12.78
		45	6175		13.00	12.75
		93	6415		13.00	12.87
	802.11ax20-HE0	1	5955	MCS0	13.00	12.75
		45	6175		13.00	12.87
		93	6415		13.00	12.68
	802.11n40-HT0	3	5965	MCS0	13.00	12.79
		43	6165		13.00	12.71
		91	6405		13.00	12.80
	802.11ac40-VHT0	3	5965	MCS0	13.00	12.76
		43	6165		13.00	12.80
		91	6405		13.00	12.82
	802.11ax40-HE0	3	5965	MCS0	13.00	12.79
		43	6165		13.00	12.80
		91	6405		13.00	12.85
	802.11ac80-VHT0	7	5985	MCS0	13.00	12.81
		39	6145		13.00	12.78
		87	6385		13.00	12.85
	802.11ax80-HE0	7	5985	MCS0	13.00	12.72
		39	6145		13.00	12.70
		87	6385		13.00	12.73
	802.11ac160-VHT0	15	6025	MCS0	13.00	12.71
		47	6185		13.00	12.86
		79	6345		13.00	12.80
	802.11ax160-HE0	15	6025	MCS0	13.00	12.95
		47	6185		13.00	12.99
		79	6345		13.00	12.91

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11a	97	6435	6Mbps	13.00	12.84
		105	6475		13.00	12.75
		113	6515		13.00	12.91
	802.11n20-HT0	97	6435	MCS0	13.00	12.86
		105	6475		13.00	12.83
		113	6515		13.00	12.85
	802.11ac20-VHT0	97	6435	MCS0	13.00	12.94
		105	6475		13.00	12.79
		113	6515		13.00	12.84
	802.11ax20-HE0	97	6435	MCS0	13.00	12.87
		105	6475		13.00	12.86
		113	6515		13.00	12.77
	802.11n40-HT0	99	6445	MCS0	13.00	12.83
		107	6485		13.00	12.84
	802.11ac40-VHT0	99	6445	MCS0	13.00	12.81
		107	6485		13.00	12.83
	802.11ax40-HE0	99	6445	MCS0	13.00	12.92
		107	6485		13.00	12.77
	802.11ac80-VHT0	103	6465	MCS0	13.00	12.90
		119	6545		13.00	12.88
	802.11ax80-HE0	103	6465	MCS0	13.00	12.80
		119	6545		13.00	12.93
	802.11ac160-VHT0	111	6505	MCS0	13.00	12.79
	802.11ax160-HE0	111	6505	MCS0	13.00	12.98

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11a	117	6535	6Mbps	13.00	12.90
		149	6695		13.00	12.87
		181	6855		13.00	12.89
	802.11n20-HT0	117	6535	MCS0	13.00	12.81
		149	6695		13.00	12.75
		181	6855		13.00	12.76
	802.11ac20-VHT0	117	6535	MCS0	13.00	12.71
		149	6695		13.00	12.76
		181	6855		13.00	12.81
	802.11ax20-HE0	117	6535	MCS0	13.00	12.74
		149	6695		13.00	12.80
		181	6855		13.00	12.78
	802.11n40-HT0	115	6525	MCS0	13.00	12.79
		147	6685		13.00	12.78
		179	6845		13.00	12.72
	802.11ac40-VHT0	115	6525	MCS0	13.00	12.76
		147	6685		13.00	12.85
		179	6845		13.00	12.72
	802.11ax40-HE0	115	6525	MCS0	13.00	12.79
		147	6685		13.00	12.83
		179	6845		13.00	12.81
	802.11ac80-VHT0	135	6625	MCS0	13.00	12.82
		151	6705		13.00	12.73
		167	6785		13.00	12.81
	802.11ax80-HE0	135	6625	MCS0	13.00	12.87
		151	6705		13.00	12.77
		167	6785		13.00	12.79
	802.11ac160-VHT0	143	6665	MCS0	13.00	12.88
		175	6825		13.00	12.76
	802.11ax160-HE0	143	6665	MCS0	13.00	12.98
		175	6825		13.00	12.94

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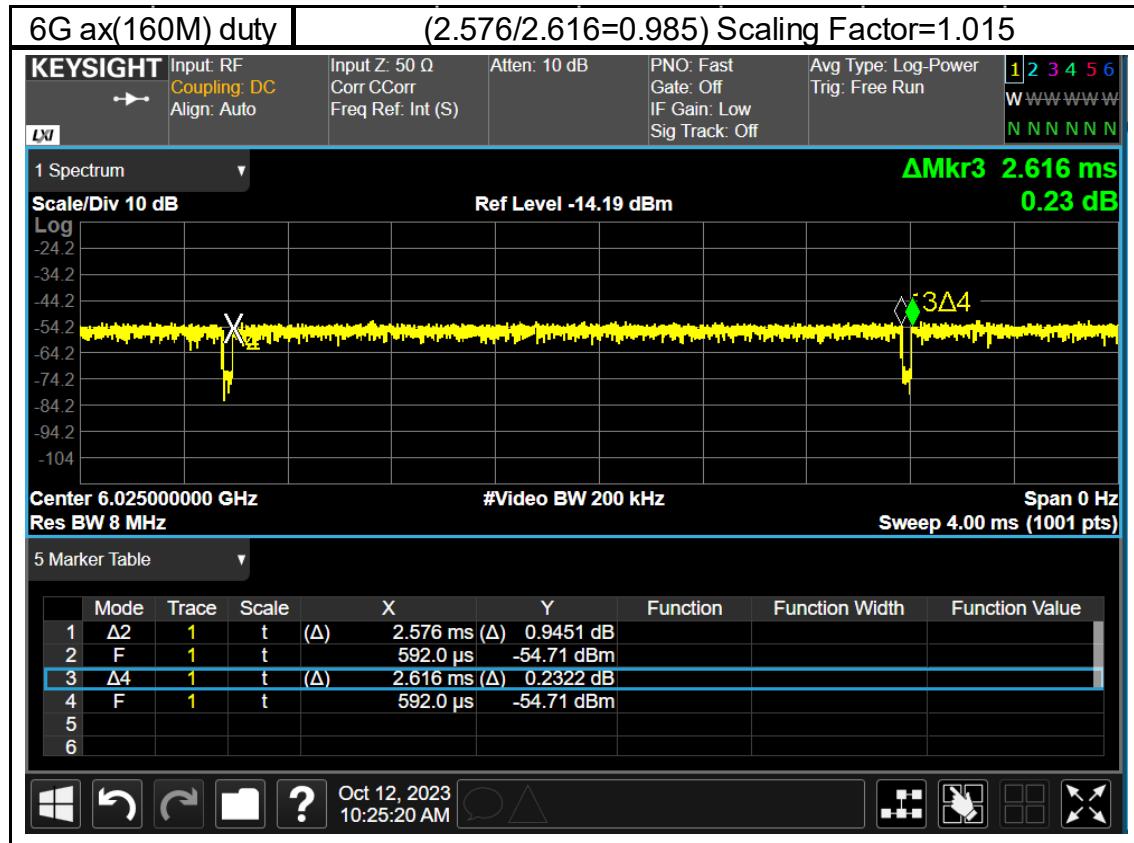
Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11a	185	6875	6Mbps	13.00	12.94
		209	6995		13.00	12.81
		233	7115		13.00	12.96
	802.11n20-HT0	185	6875	MCS0	13.00	12.87
		209	6995		13.00	12.76
		233	7115		13.00	12.86
	802.11ac20-VHT0	185	6875	MCS0	13.00	12.79
		209	6995		13.00	12.75
		233	7115		13.00	12.80
	802.11ax20-HE0	185	6875	MCS0	13.00	12.91
		209	6995		13.00	12.78
		233	7115		13.00	12.91
	802.11n40-HT0	187	6885	MCS0	13.00	12.81
		227	7085		13.00	12.79
	802.11ac40-VHT0	187	6885	MCS0	13.00	12.86
		227	7085		13.00	12.77
	802.11ax40-HE0	187	6885	MCS0	13.00	12.80
		227	7085		13.00	12.86
	802.11ac80-VHT0	183	6865	MCS0	13.00	12.81
		199	6945		13.00	12.76
		215	7025		13.00	12.82
	802.11ax80-HE0	183	6865	MCS0	13.00	12.91
		199	6945		13.00	12.79
		215	7025		13.00	12.86
	802.11ac160-VHT0	207	6985	MCS0	13.00	12.76
	802.11ax160-HE0	207	6985	MCS0	13.00	12.99

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7 DUTY CYCLE



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8 SUMMARY OF RESULTS

8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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8.2 Summary of SAR Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-5.6.2GHz802.11ax(160M)	Aux	Back Surface	0	15	6025	10.50	10.48	1.02	100.46%	0.189	0.193	1.34	1.366	-
U-NII-5.6.2GHz802.11ax(160M)	Aux	Back Surface	0	79	6345	10.50	10.45	1.02	101.16%	0.155	0.159	1.12	1.150	-
U-NII-5.6.2GHz802.11ax(160M)	Aux	Top Edge	0	15	6025	10.50	10.48	1.02	100.46%	0.011	0.011	0.161	0.164	-
U-NII-5.6.2GHz802.11ax(160M)	Aux	Top Edge	0	79	6345	10.50	10.45	1.02	101.16%	0.009	0.009	0.147	0.151	-
U-NII-5.6.2GHz802.11ax(160M)	Aux	Bottom Edge	0	15	6025	10.50	10.48	1.02	100.46%	0.745	0.760	4.99	5.068	001
U-NII-5.6.2GHz802.11ax(160M)	Aux	Bottom Edge	0	79	6345	10.50	10.45	1.02	101.16%	0.637	0.654	4.29	4.405	002
U-NII-6.5.6GHz802.11ax(160M)	Aux	Left Edge	0	15	6025	10.50	10.48	1.02	100.46%	0.008	0.008	0.057	0.058	-
U-NII-6.5.6GHz802.11ax(160M)	Aux	Left Edge	0	79	6345	10.50	10.45	1.02	101.16%	0.006	0.006	0.051	0.052	-
U-NII-6.5.6GHz802.11ax(160M)	Aux	Right Edge	0	15	6025	10.50	10.48	1.02	100.46%	0.013	0.013	0.186	0.190	-
U-NII-6.5.6GHz802.11ax(160M)	Aux	Right Edge	0	79	6345	10.50	10.45	1.02	101.16%	0.012	0.012	0.181	0.186	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-6.5GHz802.11ax(160M)	Aux	Back Surface	0	111	6505	12.50	12.47	1.02	100.69%	0.369	0.377	2.55	2.606	-
U-NII-6.5GHz802.11ax(160M)	Aux	Top Edge	0	111	6505	12.50	12.47	1.02	100.69%	0.011	0.011	0.222	0.227	-
U-NII-6.5GHz802.11ax(160M)	Aux	Bottom Edge	0	111	6505	12.50	12.47	1.02	100.69%	1.140	1.165	7.9	8.074	003
U-NII-6.5GHz802.11ax(160M)	Aux	Left Edge	0	111	6505	12.50	12.47	1.02	100.69%	0.006	0.006	0.042	0.043	-
U-NII-6.5GHz802.11ax(160M)	Aux	Right Edge	0	111	6505	12.50	12.47	1.02	100.69%	0.011	0.011	0.216	0.221	-
Repeat	Aux	Bottom Edge	0	111	6505	12.50	12.47	1.02	100.69%	1.090	1.114	7.53	7.696	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-7.6.7GHz802.11ax(160M)	Aux	Back Surface	0	143	6665	12.50	12.46	1.02	100.93%	0.360	0.369	2.46	2.520	-
U-NII-7.6.7GHz802.11ax(160M)	Aux	Top Edge	0	143	6665	12.50	12.46	1.02	100.93%	0.013	0.013	0.253	0.259	-
U-NII-7.6.7GHz802.11ax(160M)	Aux	Bottom Edge	0	143	6665	12.50	12.46	1.02	100.93%	1.120	1.147	7.67	7.857	004
U-NII-7.6.7GHz802.11ax(160M)	Aux	Left Edge	0	143	6665	12.50	12.46	1.02	100.93%	0.009	0.009	0.063	0.065	-
U-NII-7.6.7GHz802.11ax(160M)	Aux	Right Edge	0	143	6665	12.50	12.46	1.02	100.93%	0.018	0.018	0.335	0.343	-
Repeat	Aux	Bottom Edge	0	143	6665	12.50	12.46	1.02	100.93%	1.110	1.137	7.63	7.816	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-8.7.0GHz802.11ax(160M)	Aux	Back Surface	0	207	6985	13.00	12.96	1.02	100.93%	0.357	0.366	2.29	2.346	-
U-NII-8.7.0GHz802.11ax(160M)	Aux	Top Edge	0	207	6985	13.00	12.96	1.02	100.93%	0.012	0.012	0.242	0.248	-
U-NII-8.7.0GHz802.11ax(160M)	Aux	Bottom Edge	0	207	6985	13.00	12.96	1.02	100.93%	1.150	1.178	7.4	7.580	005
U-NII-8.7.0GHz802.11ax(160M)	Aux	Left Edge	0	207	6985	13.00	12.96	1.02	100.93%	0.007	0.007	0.055	0.056	-
U-NII-8.7.0GHz802.11ax(160M)	Aux	Right Edge	0	207	6985	13.00	12.96	1.02	100.93%	0.015	0.015	0.281	0.288	-
Repeat	Aux	Bottom Edge	0	207	6985	13.00	12.96	1.02	100.93%	1.090	1.117	7.21	7.386	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-5.6.2GHz802.11ax(160M)	Main	Back Surface	0	15	6025	13.00	12.95	1.02	101.16%	0.234	0.240	2.09	2.146	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Back Surface	0	47	6185	13.00	12.99	1.02	100.23%	0.266	0.271	2.23	2.269	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Top Edge	0	15	6025	13.00	12.95	1.02	101.16%	0.049	0.050	0.612	0.628	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Top Edge	0	47	6185	13.00	12.99	1.02	100.23%	0.058	0.059	0.653	0.664	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Bottom Edge	0	15	6025	13.00	12.95	1.02	101.16%	0.035	0.036	0.522	0.536	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Bottom Edge	0	47	6185	13.00	12.99	1.02	100.23%	0.040	0.041	0.555	0.565	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Left Edge	0	15	6025	13.00	12.95	1.02	101.16%	0.003	0.003	0.061	0.063	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Left Edge	0	47	6185	13.00	12.99	1.02	100.23%	0.005	0.005	0.069	0.070	-
U-NII-5.6.2GHz802.11ax(160M)	Main	Right Edge	0	15	6025	13.00	12.95	1.02	101.16%	0.773	0.794	5.32	5.462	006
U-NII-5.6.2GHz802.11ax(160M)	Main	Right Edge	0	47	6185	13.00	12.99	1.02	100.23%	0.824	0.838	6.23	6.338	007
U-NII-5.6.2GHz802.11ax(160M)	Main	Right Edge	0	79	6345	13.00	12.91	1.02	102.09%	0.754	0.781	5.13	5.316	-
Repeat	Main	Right Edge	0	47	6185	13.00	12.99	1.02	100.23%	0.814	0.828	6.07	6.175	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-6.5.6GHz802.11ax(160M)	Main	Back Surface	0	111	6505	13.00	12.98	1.02	100.46%	0.246	0.251	1.82	1.856	-
U-NII-6.5.6GHz802.11ax(160M)	Main	Top Edge	0	111	6505	13.00	12.98	1.02	100.46%	0.051	0.052	0.573	0.584	-
U-NII-6.5.6GHz802.11ax(160M)	Main	Bottom Edge	0	111	6505	13.00	12.98	1.02	100.46%	0.033	0.034	0.457	0.466	-
U-NII-6.5.6GHz802.11ax(160M)	Main	Left Edge	0	111	6505	13.00	12.98	1.02	100.46%	0.004	0.004	0.052	0.053	-
U-NII-6.5.6GHz802.11ax(160M)	Main	Right Edge	0	111	6505	13.00	12.98	1.02	100.46%	0.761	0.776	5.65	5.761	008
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)	Estimated APD W/m² (4cm²)		ID	
											Measured	Reported		
U-NII-7.6.7GHz802.11ax(160M)	Main	Back Surface	0	143	6665	13.00	12.98	1.02	100.46%	0.282	0.288	2.01	2.050	-
U-NII-7.6.7GHz802.11ax(160M)	Main	Top Edge	0	143	6665	13.00	12.98	1.02	100.46%	0.063	0.064	0.687	0.701	-
U-NII-7.6.7GHz802.11ax(160M)	Main	Bottom Edge	0	143	6665	13.00	12.98	1.02	100.46%	0.042	0.043	0.581	0.592	-
U-NII-7.6.7GHz802.11ax(160M)	Main	Left Edge	0	143	6665	13.00	12.98	1.02	100.46%	0.006	0.006			

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling
Reported APD = measured APD * Power scaling * Duty cycle scaling

8.3 Summary of PD Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Aux	Bottom Edge	2	15	6025	10.50	10.48	100.46%	1.02	1.55	5.410	8.551	4.590	7.255	011
	Aux	Bottom Edge	2	79	6345	10.50	10.45	101.16%	1.02	1.55	5.170	8.228	4.380	6.971	012
WLAN 6E 802.11ax(160M) U-NII-6	Aux	Bottom Edge	2	111	6505	12.50	12.47	100.69%	1.02	1.55	5.590	8.855	4.310	6.828	013
WLAN 6E 802.11ax(160M) U-NII-7	Aux	Bottom Edge	2	143	6665	12.50	12.46	100.93%	1.02	1.55	5.560	8.828	4.090	6.494	014
WLAN 6E 802.11ax(160M) U-NII-8	Aux	Bottom Edge	2	207	6985	13.00	12.96	100.93%	1.02	1.55	4.570	7.256	3.990	6.335	015

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Main	Right Edge	2	15	6025	13.00	12.95	101.16%	1.02	1.55	4.170	6.636	3.530	5.618	016
	Main	Right Edge	2	47	6185	13.00	12.99	100.23%	1.02	1.55	4.820	7.601	4.200	6.623	017
WLAN 6E 802.11ax(160M) U-NII-6	Main	Right Edge	2	111	6505	13.00	12.98	100.46%	1.02	1.55	3.860	6.101	3.370	5.326	018
WLAN 6E 802.11ax(160M) U-NII-7	Main	Right Edge	2	143	6665	13.00	12.98	100.46%	1.02	1.55	6.070	9.594	4.190	6.622	019
WLAN 6E 802.11ax(160M) U-NII-8	Main	Right Edge	2	207	6985	13.00	12.99	100.23%	1.02	1.55	4.580	7.222	3.010	4.746	020

Note:

Reported PD = measured PD * Power scaling * Duty cycle scaling * Uncertainty scaling

8.4 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

8.5 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	856	Apr/26/2023	Apr/25/2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Apr/14/2023	Apr/13/2024
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/23/2023	Jan/22/2024
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/16/2023	Aug/15/2024
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/16/2023	Aug/15/2024
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/19/2023	Jan/18/2024
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/23/2023	May/22/2024
Agilent	Dual-directional coupler	772D	MY48220468	Sep/26/2023	Sep/25/2024
Agilent	Dual-directional coupler	778D	MY46151242	Sep/26/2023	Sep/25/2024
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/06/2023	Feb/05/2024
R&S	Power Meter	NRX	102191	Feb/06/2023	Feb/05/2024
R&S	Power Sensor	NRP50S	101358	Feb/06/2023	Feb/05/2024
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/23/2023	May/22/2024
Agilent	Network Analyzer	E5071C	MY46107530	Jun/01/2023	May/31/2024
Keysight	Economy calibration kit	85032E	MY61410221	Mar/30/2023	Mar/29/2024
SPEAG	Software	DASY 6 V16.0.0.116	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2023	Sep/26/2024
TECPTEL	Digital thermometer	DTM-303A	TP190085	Jan/11/2023	Jan/10/2024

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10 UNCERTAINTY BUDGET

DASY6 Uncertainty Budget
According to IEC/IEEE 62209-1528
(Frequency band: 6GHz - 10GHz range)

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distributioin	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	$\sqrt{3}$	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	$\sqrt{3}$	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	$\sqrt{3}$	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	$\sqrt{3}$	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	$\sqrt{3}$	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	$\sqrt{3}$	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	$\sqrt{3}$	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	$\sqrt{3}$	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	$\sqrt{3}$	1.732	1	1	0.0	0.0
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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**cDASY6 Module mmWave Uncertainty Budget for PD
Evaluation Distances to the Antennas $\geq \lambda/5$
In Compliance with IEC/IEEE 63195**

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Frequency response (BW $\leq 1\text{GHz}$)	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	∞
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Field impedance dependence	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2309000546ES

Measurement Report for Device, Bottom Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_0mm_Aux

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Edge, 0.00	5.7	5.685	36.028

Hardware Setup

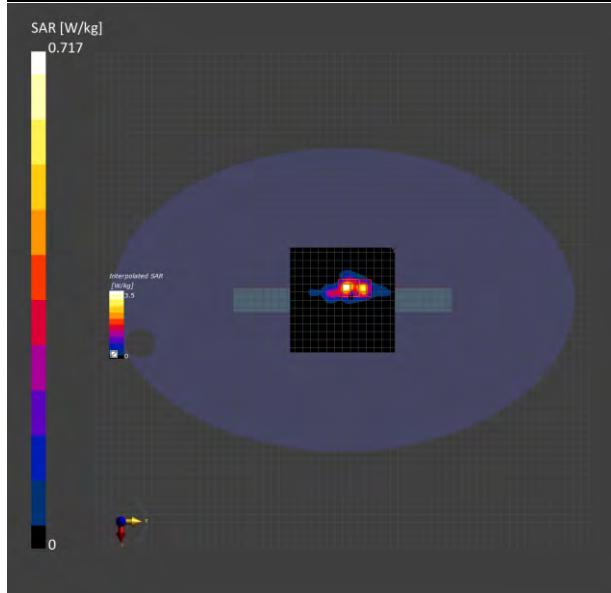
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.719	0.745
psSAR8g [W/kg]	0.285	0.319
psSAR10g [W/kg]	0.234	0.201
psPDab (4.0cm ² , sq) [W/m ²]		4.99
Power Drift [dB]	-0.15	-0.14
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		6.1



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ID: 002**Report No. :TESA2309000546ES****Measurement Report for Device, Bottom Edge, U-NII-5,****IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_0mm_Aux****Ambient temperature: 22.5; Liquid temperature: 22.7****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Edge, 0.00	5.7	6.031	35.644

Hardware Setup

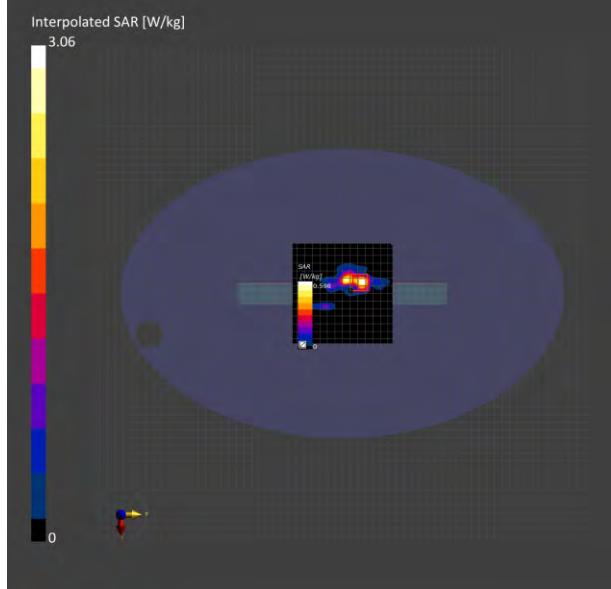
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.580	0.637
psSAR8g [W/kg]	0.210	0.215
psSAR10g [W/kg]	0.188	0.186
psPDab (4.0cm ² , sq) [W/m ²]		4.29
Power Drift [dB]	-0.07	0.04
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		6.1



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ID: 003

Report No. :TESA2309000546ES

Measurement Report for Device, Bottom Edge, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_0mm_Aux

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Edge, 0.00	5.7	6.202	35.459

Hardware Setup

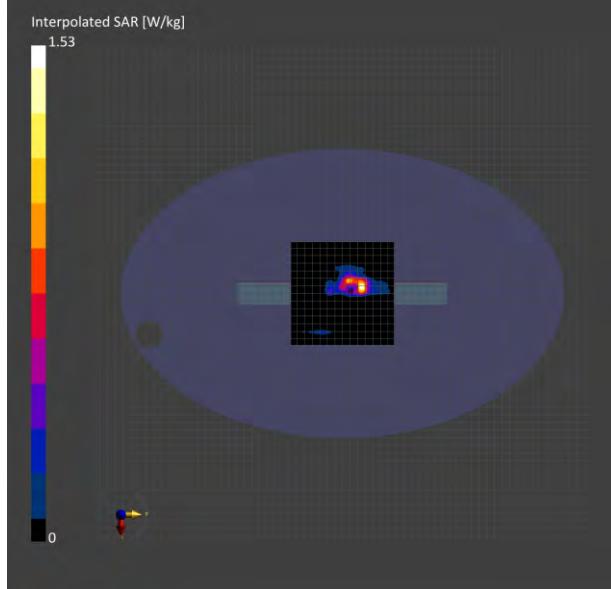
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.984	1.14
psSAR8g [W/kg]	0.353	0.395
psSAR10g [W/kg]	0.316	0.345
psPDab (4.0cm ² , sq) [W/m ²]		7.90
Power Drift [dB]	0.18	0.12
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		6.1



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ID: 004

Report No. :TESA2309000546ES

Measurement Report for Device, Bottom Edge, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_0mm_Aux

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Edge, 0.00	5.7	6.381	35.255

Hardware Setup

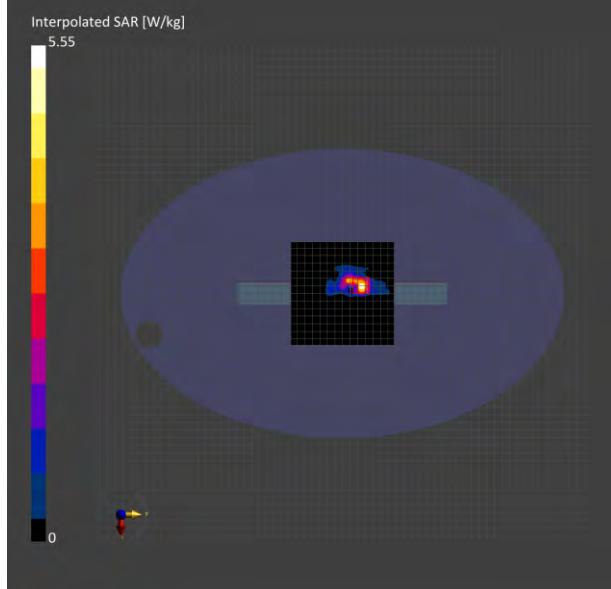
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.959	1.12
psSAR8g [W/kg]	0.344	0.383
psSAR10g [W/kg]	0.304	0.331
psPDab (4.0cm ² , sq) [W/m ²]		7.67
Power Drift [dB]	-0.13	-0.10
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		6.1



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ID: 005**Report No. :TESA2309000546ES****Measurement Report for Device, Bottom Edge, U-NII-8,****IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_0mm_Aux****Ambient temperature: 22.1; Liquid temperature: 22.9****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Edge, 0.00	5.9	6.731	34.878

Hardware Setup

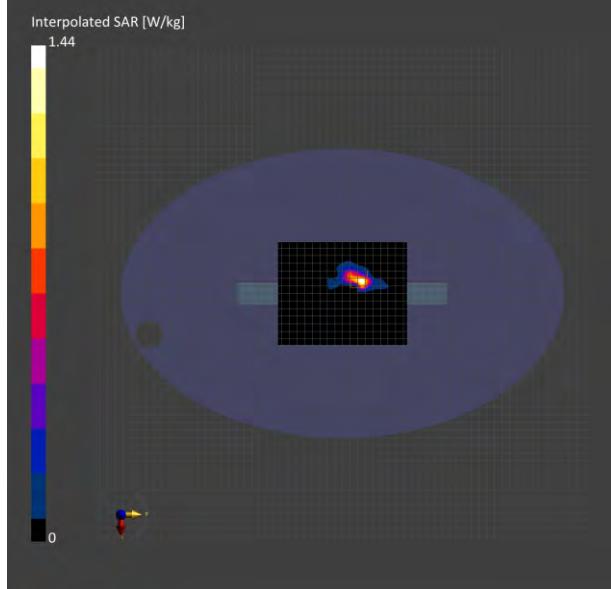
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-13	2023-10-13
psSAR1g [W/kg]	1.05	1.15
psSAR8g [W/kg]	0.351	0.370
psSAR10g [W/kg]	0.309	0.311
psPdab (4.0cm ² , sq) [W/m ²]		7.40
Power Drift [dB]	0.07	0.03
M2/M1 [%]		52.6
Dist 3dB Peak [mm]		5.4



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ID: 006**Report No. :TESA2309000546ES****Measurement Report for Device, Right Edge, U-NII-5,****IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_0mm_Main****Ambient temperature: 22.5; Liquid temperature: 22.7****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	5.685	36.028

Hardware Setup

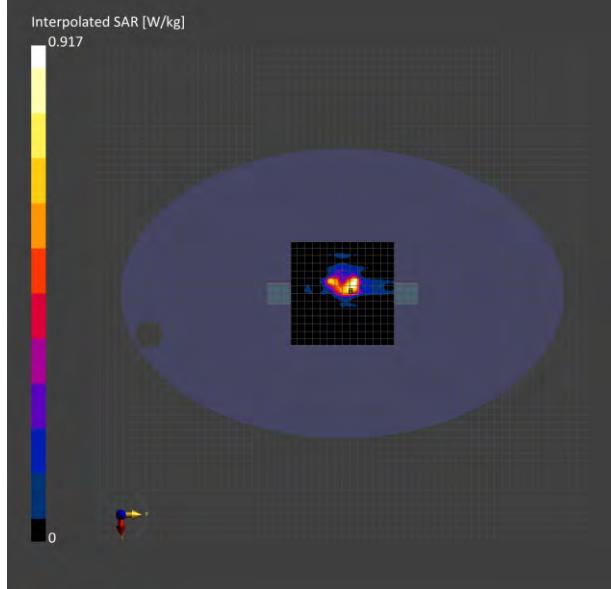
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.759	0.773
psSAR8g [W/kg]	0.316	0.385
psSAR10g [W/kg]	0.257	0.296
psPDab (4.0cm ² , sq) [W/m ²]		5.32
Power Drift [dB]	0.13	0.19
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		6.3



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ID: 007

Report No. :TESA2309000546ES

Measurement Report for Device, Right Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_0mm_Main

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	5.859	35.839

Hardware Setup

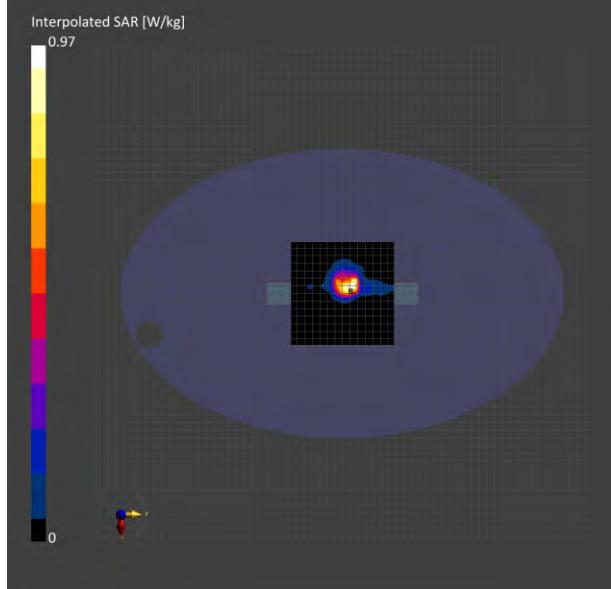
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.734	0.824
psSAR8g [W/kg]	0.309	0.312
psSAR10g [W/kg]	0.277	0.270
psPDab (4.0cm ² , sq) [W/m ²]		6.23
Power Drift [dB]	0.21	0.02
M2/M1 [%]		60.8
Dist 3dB Peak [mm]		6.7



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ID: 008

Report No. :TESA2309000546ES

Measurement Report for Device, Right Edge, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_0mm_Main

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	6.202	35.459

Hardware Setup

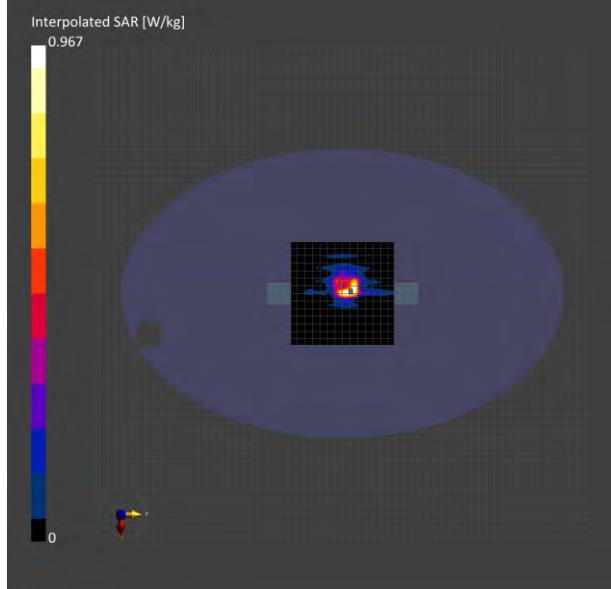
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.719	0.761
psSAR8g [W/kg]	0.291	0.282
psSAR10g [W/kg]	0.262	0.245
psPDab (4.0cm ² , sq) [W/m ²]		5.65
Power Drift [dB]	0.07	0.08
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		5.4



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ID: 009

Report No. :TESA2309000546ES

Measurement Report for Device, Right Edge, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_0mm_Main

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	6.381	35.255

Hardware Setup

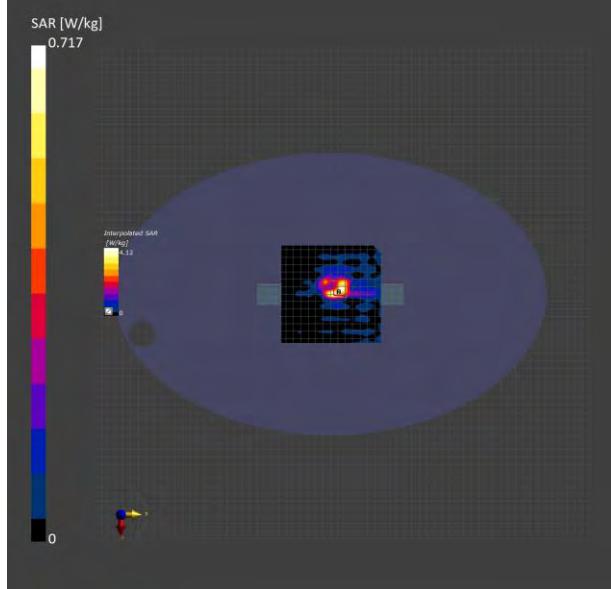
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	0.825	0.881
psSAR8g [W/kg]	0.334	0.314
psSAR10g [W/kg]	0.300	0.271
psPDab (4.0cm ² , sq) [W/m ²]		6.29
Power Drift [dB]	0.16	0.01
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		5.7



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ID: 010

Report No. :TESA2309000546ES

Measurement Report for Device, Right Edge, U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_0mm_Main

Ambient temperature: 22.1; Liquid temperature: 22.9

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.9	6.731	34.878

Hardware Setup

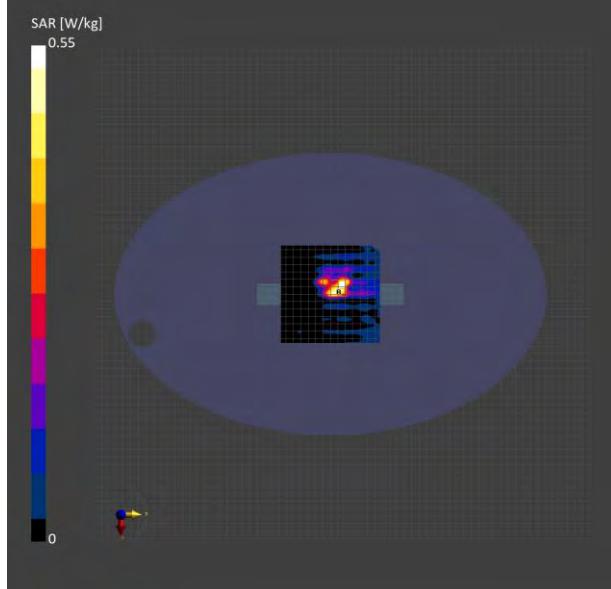
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-13	2023-10-13
psSAR1g [W/kg]	0.717	0.735
psSAR8g [W/kg]	0.302	0.276
psSAR10g [W/kg]	0.272	0.239
psPDab (4.0cm ² , sq) [W/m ²]		5.52
Power Drift [dB]	-0.09	0.06
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		5.2



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12 PD MEASUREMENT RESULTS

ID: 011**Report No. :TESA2309000546ES**

**Measurement Report for Device, Bottom Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Aux
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Edge, 2.00	1.0

Hardware Setup

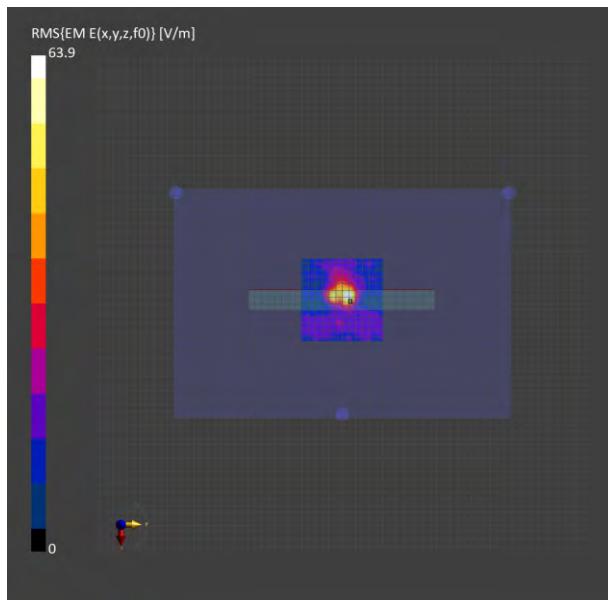
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.59
psPDtot+ [W/m ²]	5.41
psPDmod+ [W/m ²]	6.11
E _{max} [V/m]	63.8
Power Drift [dB]	-0.18



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ID: 012

Report No. :TESA2309000546ES

**Measurement Report for Device, Bottom Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_2mm_Aux
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Edge, 2.00	1.0

Hardware Setup

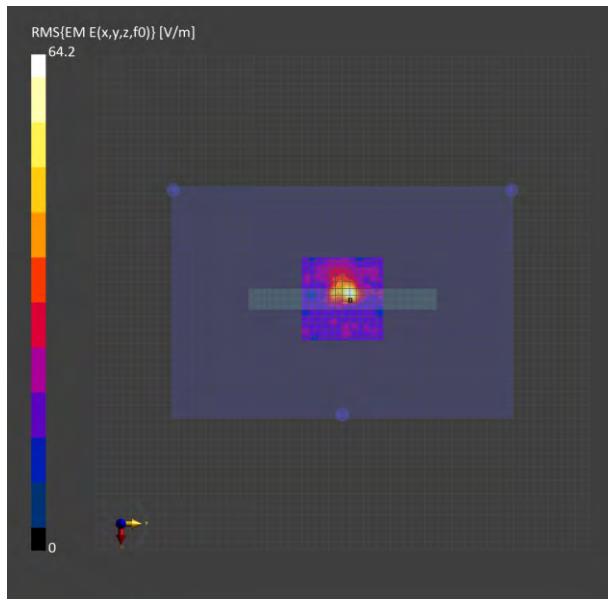
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.38
psPDTot+ [W/m ²]	5.17
psPDmod+ [W/m ²]	5.76
E _{max} [V/m]	64.2
Power Drift [dB]	0.16



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ID: 013

Report No. :TESA2309000546ES

**Measurement Report for Device, Bottom Edge, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Aux
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Edge, 2.00	1.0

Hardware Setup

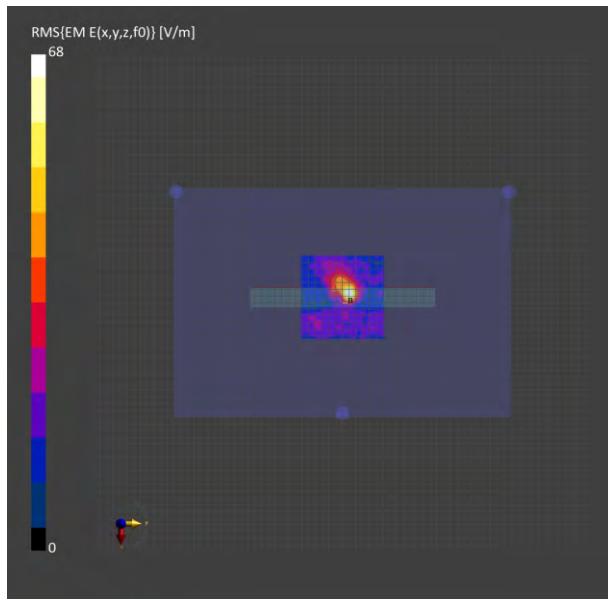
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.31
psPDTot+ [W/m ²]	5.59
psPDmod+ [W/m ²]	6.11
E _{max} [V/m]	68.0
Power Drift [dB]	0.15



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ID: 014

Report No. :TESA2309000546ES

**Measurement Report for Device, Bottom Edge, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_2mm_Aux
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Edge, 2.00	1.0

Hardware Setup

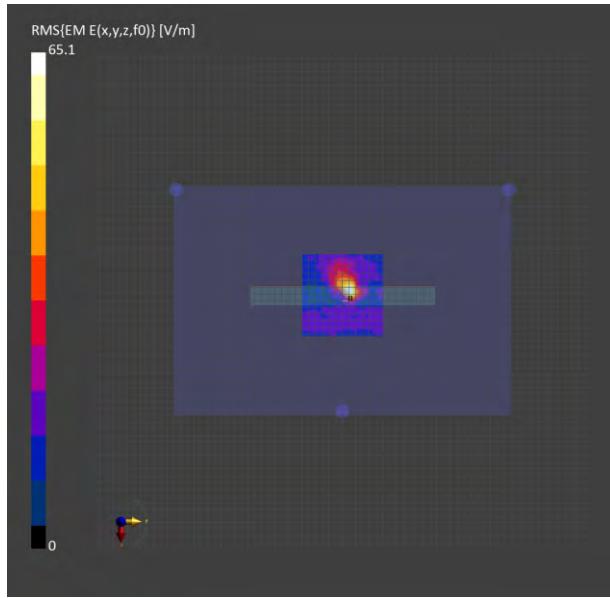
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.09
psPDTot+ [W/m ²]	5.56
psPDmod+ [W/m ²]	5.87
E _{max} [V/m]	65.1
Power Drift [dB]	-0.03



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ID: 015

Report No. :TESA2309000546ES

**Measurement Report for Device, Bottom Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Aux
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Bottom Edge, 2.00	1.0

Hardware Setup

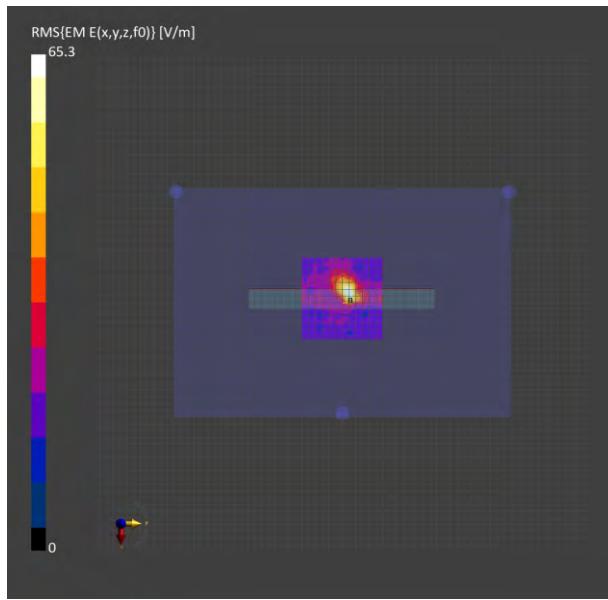
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.99
psPDTot+ [W/m ²]	4.57
psPDmod+ [W/m ²]	5.43
E _{max} [V/m]	65.3
Power Drift [dB]	0.01



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ID: 016

Report No. :TESA2309000546ES

**Measurement Report for Device, Right Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_2mm_Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Right Edge, 2.00	1.0

Hardware Setup

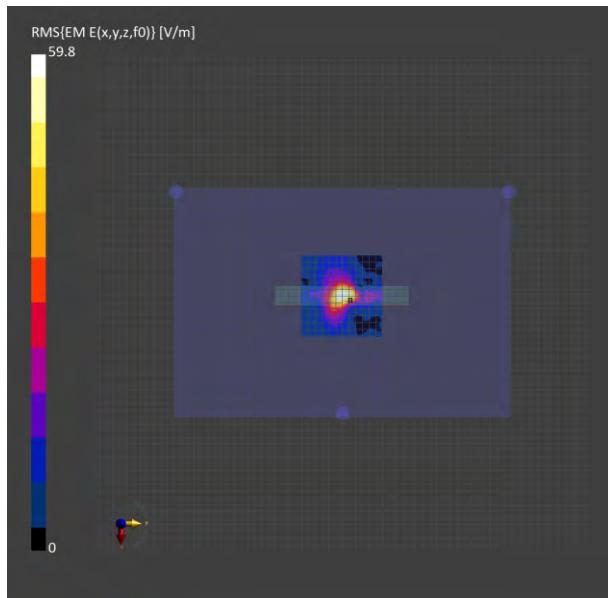
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.53
psPDTot+ [W/m ²]	4.17
psPDmod+ [W/m ²]	4.86
E _{max} [V/m]	59.8
Power Drift [dB]	0.06



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ID: 017

Report No. :TESA2309000546ES

**Measurement Report for Device, Right Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_2mm_Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Right Edge, 2.00	1.0

Hardware Setup

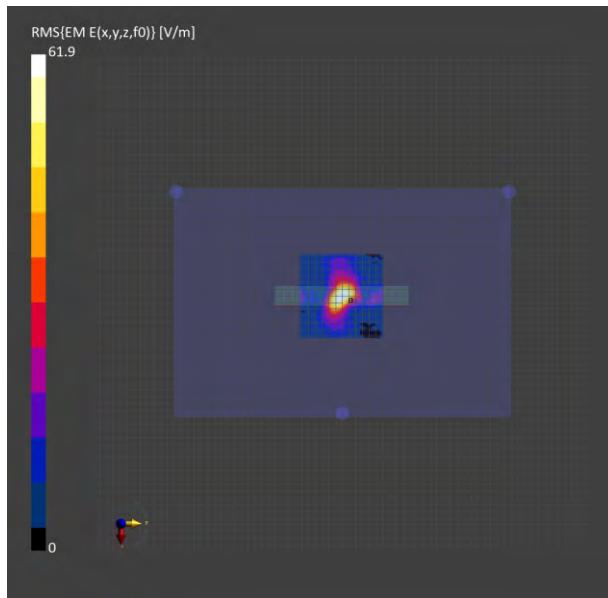
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.20
psPDTot+ [W/m ²]	4.82
psPDmod+ [W/m ²]	5.43
E _{max} [V/m]	61.8
Power Drift [dB]	-0.18



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ID: 018

Report No. :TESA2309000546ES

**Measurement Report for Device, Right Edge, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_2mm_Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Right Edge, 2.00	1.0

Hardware Setup

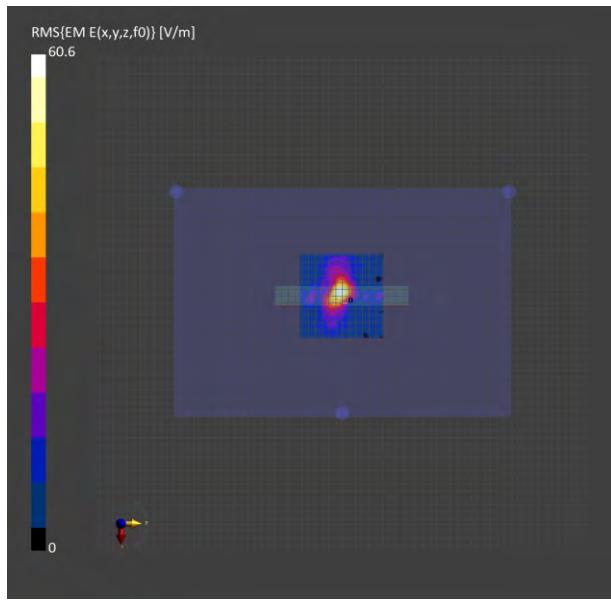
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.37
psPDTot+ [W/m ²]	3.86
psPDmod+ [W/m ²]	4.77
E _{max} [V/m]	60.6
Power Drift [dB]	-0.08



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ID: 019

Report No. :TESA2309000546ES

**Measurement Report for Device, Right Edge, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_2mm_Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Right Edge, 2.00	1.0

Hardware Setup

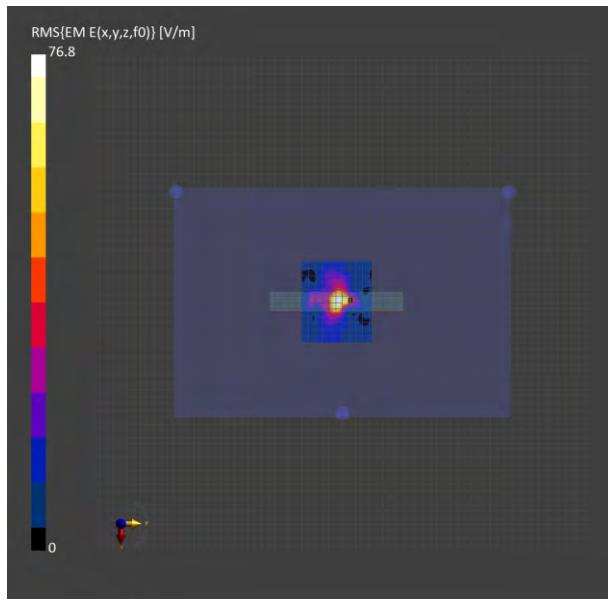
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.19
psPDTot+ [W/m ²]	6.07
psPDmod+ [W/m ²]	7.57
E _{max} [V/m]	76.8
Power Drift [dB]	0.11



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ID: 020

Report No. :TESA2309000546ES

**Measurement Report for Device, Right Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_2mm_Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Right Edge, 2.00	1.0

Hardware Setup

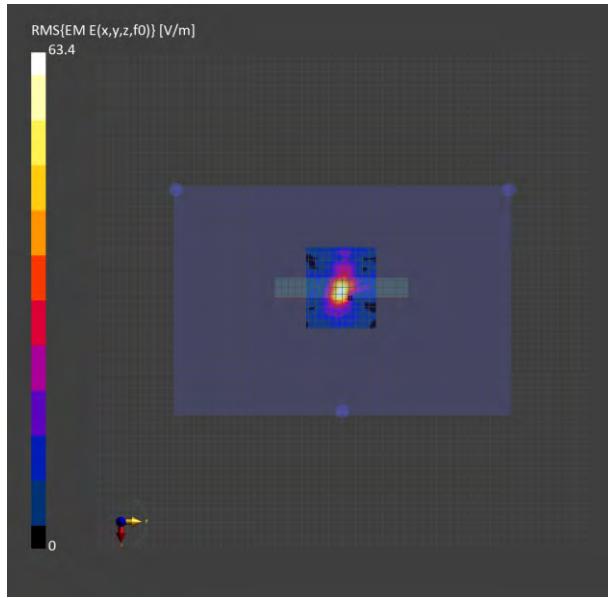
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.01
psPDTot+ [W/m ²]	4.58
psPDmod+ [W/m ²]	5.40
E _{max} [V/m]	63.4
Power Drift [dB]	0.01



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13 SAR SYSTEM CHECK RESULTS

Report No. :TESA2309000546ES

Measurement Report for Device, FRONT, Validation band,
CW, Channel 6500 (6500.0 MHz)_SN:1006

Ambient temperature: 22.5; Liquid temperature: 22.7

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.7	6.2	35.465

Hardware Setup

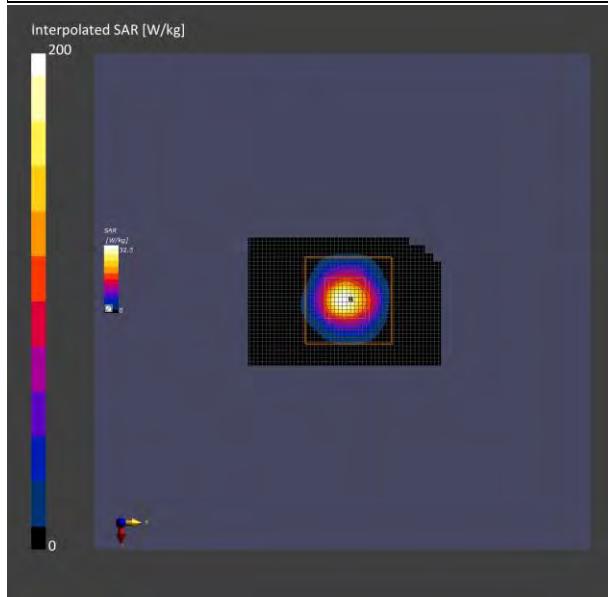
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	28.0 x 28.0 x 24.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-17	2023-10-17
psSAR1g [W/kg]	27.1	30.3
psSAR8g [W/kg]	6.24	6.64
psSAR10g [W/kg]	5.15	5.47
psPDab (4.0cm ² , sq) [W/m ²]		131
Power Drift [dB]	0.13	0.09
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		4.4



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Report No. :TESA2309000546ES

**Measurement Report for Device, FRONT, Validation band,
CW, Channel 7000 (7000.0 MHz)_SN:1007****Ambient temperature: 22.1; Liquid temperature: 22.9****Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.9	6.745	34.863

Hardware Setup

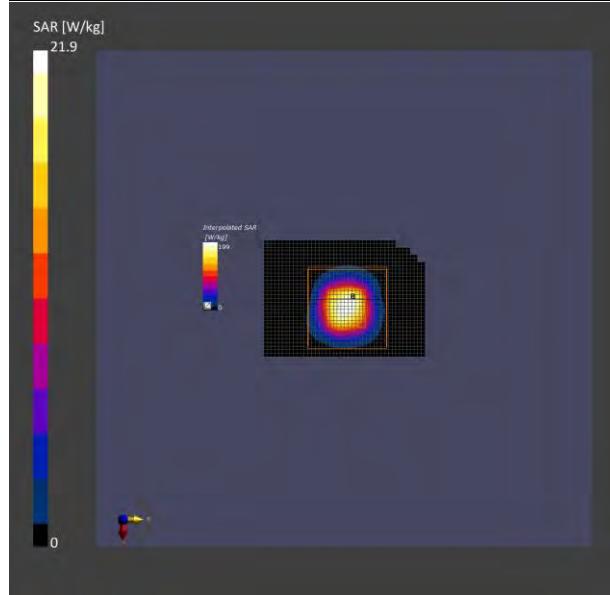
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7712, 2023-04-14	DAE4 Sn856, 2023-04-26

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 45.0	28.0 x 28.0 x 24.0
Grid Steps [mm]	6.0 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-13	2023-10-13
psSAR1g [W/kg]	25.1	26.4
psSAR8g [W/kg]	5.51	5.62
psSAR10g [W/kg]	4.53	4.55
psPDab (4.0cm ² , sq) [W/m ²]		113
Power Drift [dB]	0.18	0.16
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		4.8



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14 PD SYSTEM CHECK RESULTS

Report No. :TESA2309000546ES

Measurement Report for Device, FRONT, Validation band,
CW, Channel 10000 (10000.0 MHz)_SN:1021

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	FRONT, 10.00	1.0

Hardware Setup

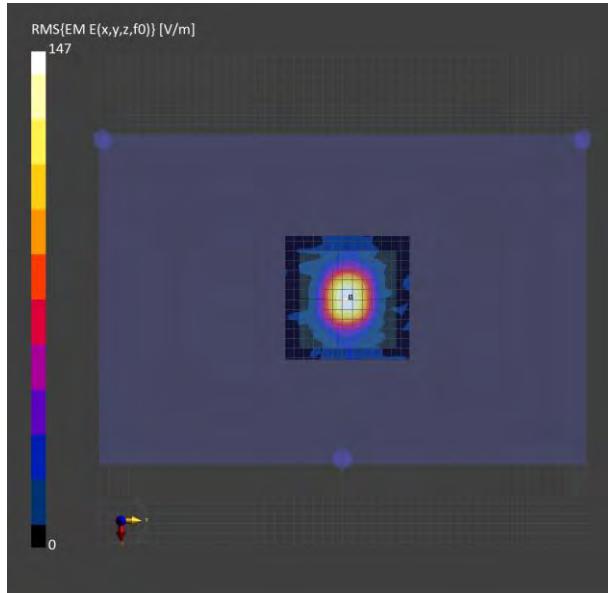
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2023-01-23	DAE4 Sn856, 2023-04-26

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Date	2023-10-19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	56.5
psPDtot+ [W/m ²]	56.8
psPDmod+ [W/m ²]	56.9
E _{max} [V/m]	147
Power Drift [dB]	0.03



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Refer to separated files for the following appendixes.

15.1 SAR_Appendix A Photographs

15.2 SAR_Appendix B DAE & Probe Cal. Certificate

15.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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