







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

Product Name	Notebook Computer					
Brand Name	HP					
Model No.	TPN-C160					
Applicant	HP Inc.					
	1501 Page Mill Road, Palo Alto, CA 94304, USA					
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013					
FCC ID	B94-RTL8852CEB					
Date of EUT Receipt	Dec. 22, 2022					
Date of Test(s)	Jan. 05, 2023 ~ Jan. 13, 2023					
Date of Issue Mar. 15, 2023						
In the configuration tested, the EUT complied with the standards specified above.						

Remarks:

SG

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 / Kiki Lin	Approved By / John Yeh
Kimmy Chiou	Kiki Lin	John Teh

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Date: Mar. 15, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark				
TESA2212000652ES	00	Initial creation of document	Feb. 14, 2023	Kimmy Chiou	*				
TESA2212000652ES	01	Modify Applicant information and FCC ID	Mar. 15, 2023	Kimmy Chiou					
Note:	Note:								
. The mark " * " is the revised version of the report due to comments submitted by the certification.									

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GENERAL INFORMATION 1

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 SPEAG DASY6 System Handbook SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz) IEC 62479:2010 IEC TR 63170:2018

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1.2 **Description of EUT**

Product Name	Notebook Computer					
Brand Name	HP					
Model No.	TPN-C160					
FCC ID	B94-RTL8852CEB					
Integrated WLAN Module	Brand Name: REALTEK Model Name: RTL8852CE					
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/ HE160 Bluetooth BR/EDR/LE					
	WLAN802.11	Please refer to section 7				
Duty Cycle	Bluetooth	Please refer to section 7				
	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)				
Supported radios (TX	802.11a/n/ac/ax	5.2GHz (5150.0 –5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)				
Frequency Range, MHz)	802.11ax	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)				
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)				

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1.3 Maximum value

Notebook mode

Summary of Maximum SAR and Power Density Value								
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m^2)	Highest PD (W/m^2)					
Bluetooth(GFSK)	0.02	N/A	N/A					
2.4G WLAN	0.37	N/A	N/A					
5G WLAN	0.71	N/A	N/A					
6G WLAN	0.36	2.53	5.42					

Antenna Information 1.4

Laptop mode																				
Vendor		Vendor1																		
Antenna		Tx1												Т	x2					
Part Number		81EABP15.G22 (DC33002NQ10)																		
Frequency(MHz)	2400~2495	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125	2400~2495	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.88	2.11	2.25	2.59	2.68	2.41	2.71	2.05	2.24	2.56	1.69	2.09	1.64	2.25	2.06	1.91	2.80	2.48	2.89	2.97
Laptop mode																				
Vendor										Ven	dor2									
Antenna	Tx1												Т	`x2						
Part Number					0ACCN0 (DC3300											021019N 02NM00)				

Note: Antenna information is provided by the applicant.

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MEASUREMENT SYSTEM 2

2.1 **Test Facility**

Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
1F, No. 8, Alley 15, Lane 120, Sec. 1 NeiHu Road, Neihu	SAR 2			
District, Taipei City, 11493, Taiwan.	SAR 6	TW0029		
No. 2, Keji 1st Rd., Guishan	SAR 1	TW0028	TW3702	
Township, Taoyuan County, 33383, Taiwan	SAR 4			
No.134, Wu Kung Road, Now Tainoi Industrial Park	SAR 3			
Wuku District, New Taipei City, Taiwan	SAR 7	TW0027		
	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan. No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.SAR 2No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, TaiwanSAR 1No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New TaipeiSAR 3	Test Site AddressTest Site Namenumber1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.SAR 2TW0029No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, TaiwanSAR 1TW0028No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New TaipeiSAR 3TW0027	

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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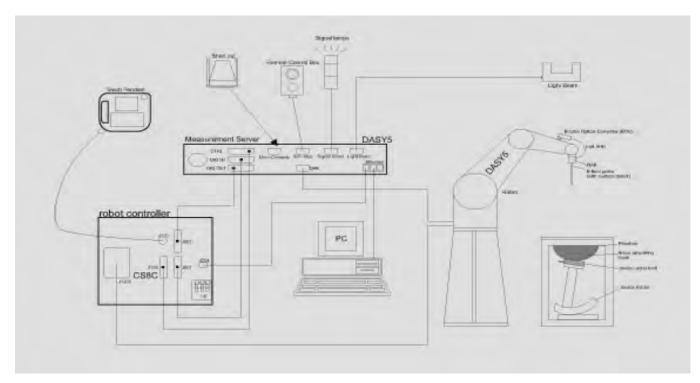
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2.2 SAR System

Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|²)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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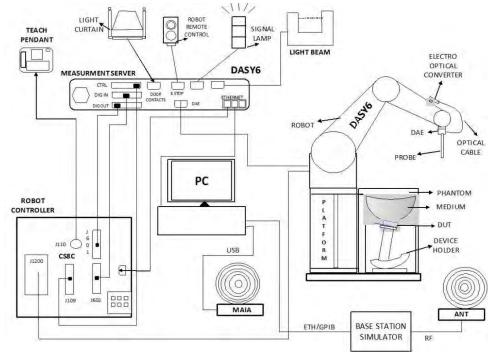
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Block Diagram (DASY6)

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 2450/5250/5600/5750/6500/7000 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	$10 \ \mu W/g \text{ to } > 100 \ m W/g$					
Range	Linearity: $\pm 0.2 \text{ dB}$ (noise: typically < 1 μ W/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	ÉLI
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	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER (ELI)

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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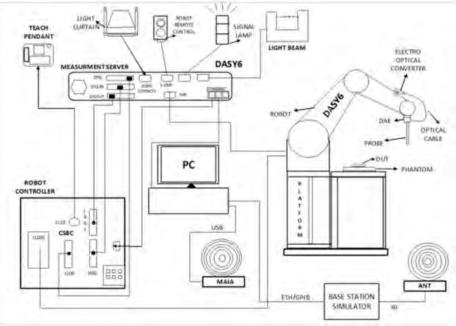
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PD system 2.3

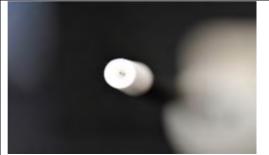
Block Diagram (DASY6)

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 consist 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.



Two dipoles optimally arranged to obtain pseudovector 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.

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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			
sensor1,5mm calibrated	required)			
device				
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 δ) \leq 0.05 and a relative permittivity (ϵr) \leq 1.2. High-performance RF absorbers are placed below the foam.

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SAR SYSTEM VERIFICATION 3

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 reference point (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 ± 5% of the target values.

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
2412	22.6°C	39.265	1.766	38.696	1.744	-1.45%	-1.26%	± 5%	Jan. 06, 2023
2437	22.6°C	39.222	1.788	38.646	1.765	-1.47%	-1.31%	± 5%	Jan. 06, 2023
2441	22.6°C	39.215	1.792	38.647	1.769	-1.45%	-1.29%	± 5%	Jan. 06, 2023
2450	22.6°C	39.200	1.800	38.620	1.777	-1.48%	-1.28%	± 5%	Jan. 06, 2023
2462	22.6°C	39.184	1.813	38.616	1.790	-1.45%	-1.26%	± 5%	Jan. 06, 2023
5190	22.9°C	36.010	4.650	35.635	4.607	-1.04%	-0.91%	± 5%	Jan. 07, 2023
5230	22.9°C	35.970	4.690	35.625	4.648	-0.96%	-0.90%	± 5%	Jan. 07, 2023
5250	22.9°C	35.950	4.710	35.601	4.668	-0.97%	-0.89%	± 5%	Jan. 07, 2023
5270	22.9°C	35.930	4.730	35.560	4.690	-1.03%	-0.85%	± 5%	Jan. 07, 2023
5310	22.9°C	35.890	4.770	35.538	4.729	-0.98%	-0.86%	± 5%	Jan. 07, 2023
5530	22.7°C	35.605	4.997	35.231	4.953	-1.05%	-0.87%	± 5%	Jan. 08, 2023
5600	22.7°C	35.500	5.070	35.141	5.024	-1.01%	-0.91%	± 5%	Jan. 08, 2023
5610	22.7°C	35.490	5.080	35.135	5.036	-1.00%	-0.87%	± 5%	Jan. 08, 2023
5690	22.7°C	35.410	5.160	35.038	5.111	-1.05%	-0.95%	± 5%	Jan. 08, 2023
5750	22.8°C	35.350	5.220	35.001	5.171	-0.99%	-0.94%	± 5%	Jan. 09, 2023
5775	22.8°C	35.325	5.245	34.975	5.197	-0.99%	-0.92%	± 5%	Jan. 09, 2023
5855	22.8°C	35.245	5.328	34.878	5.281	-1.04%	-0.88%	± 5%	Jan. 09, 2023
6025	22.5°C	35.070	5.510	34.442	5.429	-1.79%	-1.46%	± 5%	Jan. 10, 2023
6185	22.5°C	34.878	5.698	34.268	5.614	-1.75%	-1.48%	± 5%	Jan. 10, 2023
6345	22.5°C	34.686	5.887	34.044	5.796	-1.85%	-1.55%	± 5%	Jan. 10, 2023
6500	22.5°C	34.500	6.070	33.879	5.979	-1.80%	-1.50%	± 5%	Jan. 10, 2023
6505	22.5°C	34.494	6.076	33.819	5.986	-1.96%	-1.48%	± 5%	Jan. 10, 2023
6665	22.5°C	34.302	6.261	33.667	6.169	-1.85%	-1.48%	± 5%	Jan. 10, 2023
6825	22.6°C	34.110	6.447	33.506	6.348	-1.77%	-1.54%	± 5%	Jan. 11, 2023
6865	22.6°C	34.062	6.493	33.439	6.394	-1.83%	-1.53%	± 5%	Jan. 11, 2023
6945	22.6°C	33.966	6.586	33.409	6.483	-1.64%	-1.57%	± 5%	Jan. 11, 2023
7000	22.6°C	33.900	6.650	33.302	6.547	-1.76%	-1.55%	± 5%	Jan. 11, 2023

3.3 Measurement results of Tissue Simulant Liquid

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3.4 The composition of the tissue simulating liquid:

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

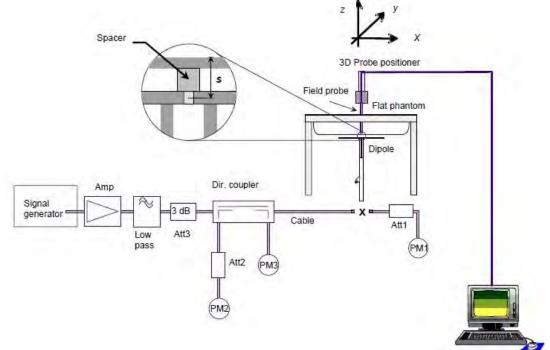
Broad-band head tissue simulating	SPEAG Product	Frequency range (MHz)	Main Ingredients
liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

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=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	13.1	52.4	-0.76	± 10%	Jan.06,2023
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
D5GHzV2	1023	5250	81	8.11	81.1	0.12	± 10%	Jan.07,2023
D5GHzV2	1023	5600	84.4	8.74	87.4	3.55	± 10%	Jan.08,2023
D5GHzV2	1023	5750	81	8.02	80.2	-0.99	± 10%	Jan.09,2023
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	292	29.1	291	-0.34	± 10%	Jan.10,2023
D7GHzV2	1007	7000	278	26.9	269	-3.24	± 10%	Jan.11,2023

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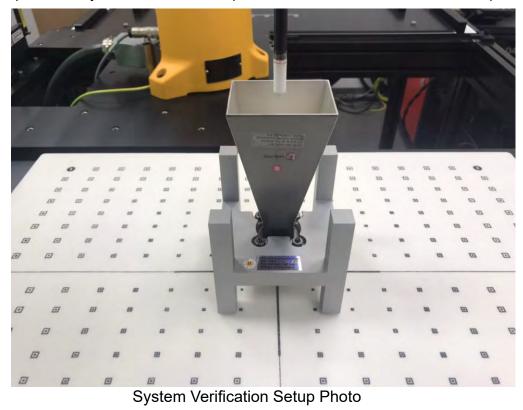


PD SYSTEM VERIFICATION 4

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.



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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.

Freque (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
1000	10000	9579	1665	10	86.1	52.5	51.7	0.07	Jan.12,2023

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TEST CONFIGURATIONS 5

5.1 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° 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 ≤ 0.8 W/kg, when the transmission band is \leq 100 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 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 W/kg (~ 10% from the 1-g SAR limit).

• WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

• WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

• WLAN 5GHz: Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is \leq 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR is not required for subsequent test configuration.

• WLAN 5GHz: Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

 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=2mm with the grid step (0.0625λ) for determining compliance at d=2mm.

• 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.

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5.3 **Test position**

Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

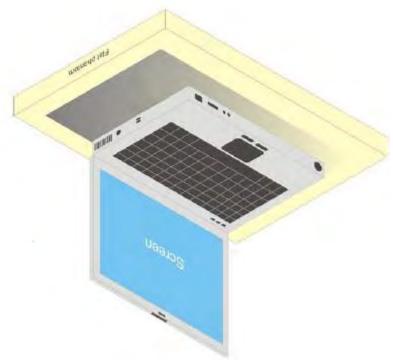


Illustration for Laptop Setup

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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 spatialaverage 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

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recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency 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 $\S 1.1310(e)(1)$.

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 Genera	I Population/Uncontrolle	d 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

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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MAXIMUM OUTPUT POWER 6

6.1 **WLAN**

Band Node Channel Frequency (MHz) Data Rate Max. Rated Avg. Power + Max. Toterance (dBm) Average (gBm) 802.11b 1 2412 6 2.0417 6 20.50 20.48. 802.11b 10 2427 10 1Mope 20.50 20.24. 802.11b 11 2462 12 1Hope 20.50 20.24. 11 2422 12 2447 19.00 18.77 12 2447 6.00 5.78. 13 2472 6.00 5.78. 14 2422 2417 18.50 18.34. 13 2472 10.50 10.16. 13 2472 10.50 10.16. 14 2422 17.50 17.38. 2 2417 10.50 10.16. 11 2422 17.50 17.34. 12 2467 15.50 18.00 17.89. 802.11ac20-VHT0 6 2437 MCS0 18.00 17.89. <t< th=""><th></th><th></th><th>Tx</th><th>1 (S1)</th><th></th><th></th><th></th></t<>			Tx	1 (S1)			
2.45GHz 4.424Z 4.55GHz 4.	Band	Mode	Channel		Data Rate	Power + Max.	power
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802.11b 6 2437 11 1Mbps 20.50 19.50 20.47 19.50 18.77 19.50 19.47 19.50 19.47 19.50 19.47 12.50 19.50 19.47 12.50 19.50 19.47 12.50 12.35 802.11g 1 2412 6.00 5.78 12.50 12.35 802.11g 1 2412 6.00 5.78 14.50 16.8.34 802.11g 10 2427 6.00 5.78 14.2412 16.50 16.44 11 2462 6 2437 6.00 17.00 10.83 802.11n20-HT0 10 2457 MCS0 16.00 17.36 11 2462 6 2437 15.00 17.41 2 2417 6 6.30 17.58 13 2472 5.50 5.32 802.11ac20-VHT0 11 2462 16.00 15.89 16.00 15.89 12 2467 15.00 14.29 17.50 17.24 17.50 17.24 18.0			2				
2.45GHz 11 2422 19.50 19.47 13 2472 6.00 5.78 802.11g 1 2417 18.00 17.89 802.11g 1 2417 18.50 18.34 1 24237 6005 21.42 18.50 18.34 11 2462 100 18.74 19.00 18.74 12 2467 105.0 10.18.74 10.50 10.18.74 12 2417 10.50 10.16 10.18 17.50 17.736 2 2417 19.00 18.74 15.00 17.86 12 2467 MCS0 16.00 17.86 13 2472 5.50 5.32 13 21.50 21.32 802.11ac20-VHT0 10 2457 MCS0 18.00 17.86 13 2472 5.50 5.32 13 21.50 21.32 802.11ac20-VHT0 12 2467 16.00 15			6	2437		20.50	
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2.45GHz 1 2412 18.00 17.89 802.11g 10 2457 6Mbps 18.50 18.34 12 2467 6Mbps 19.00 18.74 12 2467 10.50 10.48 16.50 16.44 12 2467 10.50 10.16 16.44 12 2447 10.50 10.16 17.36 2 2417 10.50 10.16 17.86 11 2412 17.50 17.36 17.81 12 2467 16.00 15.93 16.00 15.93 11 2412 17.50 17.41 19.00 18.73 2 2417 16.00 15.93 16.00 15.93 12 2467 16.00 15.93 18.00 17.78 13 2472 17.50 17.20 18.00 17.73 12 2467 16.00 15.93 18.00 17.73 13 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
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9 2452 15.00 14.84 10 2457 15.00 14.76		802.11ax40-HE0			MCS0		
10 2457 15.00 14.76							
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					<u>] </u>	13.00	12.89

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		Tx	1 (S1)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		16.50	16.36
	002 11-	40	5200	CM/hana	16.50	16.17
	802.11a	44	5220	6Mbps	16.50	16.36
		48	5240		16.50	16.37
		36	5180		16.50	16.30
	802.11n20-HT0	40	5200	MCS0	16.50	16.33
	802.11h20-H10	44	5220	IVIC SU	16.50	16.39
		48	5240		16.50	16.36
		36	5180		16.50	16.33
	802.11ac20-VHT0	40	5200	MCS0	16.50	16.26
	002.114620-01110	44	5220	IVIC SU	16.50	16.17
		48	5240		16.50	16.39
5.15-5.25 GHz		36	5180		16.50	16.18
5.15-5.25 GHZ	802.11ax20-HE0	40	5200	MCS0	16.50	16.45
	002.11ax20-HEU	44	5220	IVIC SU	16.50	16.21
		48	5240		16.50	16.30
	802.11n40-HT0	38	5190	MCS0	15.00	14.99
	002.11140-010	46	5230	IVIC SU	16.50	16.49
	802.11ac40-VHT0	38	5190	MCS0	15.00	14.68
	002.11ac40-V1110	46	5230	10030	16.50	16.17
	802.11ax40-HE0	38	5190	MCS0	15.00	14.75
	002.11ax40-11E0	46	5230		16.50	16.19
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.39
	802.11ax80-HE0	42	5210	MCS0	13.50	13.37
	802.11ac160-VHT0	50	5250	MCS0	9.50	9.27
	802.11ax160-HE0	50	5250	MCS0	9.50	9.26

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		Tx	1 (S1)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		17.00	16.93
	802.11a	56	5280	6Mbba	17.00	16.85
	002.11a	60	5300	6Mbps	17.00	16.83
		64	5320		16.50	16.15
		52	5260		17.00	16.73
	802.11n20-HT0	56	5280	MCS0	17.00	16.84
	002.11120-H10	60	5300	10030	17.00	16.91
		64	5320		17.00	16.78
	802.11ac20-VHT0	52	5260		17.00	16.84
		56	5280	MCS0	17.00	16.90
		60	5300	WC30	17.00	16.94
5.25-5.35 GHz		64	5320		17.00	16.81
5.25-5.55 GHZ		52	5260		17.00	16.88
	802.11ax20-HE0	56	5280	MCS0	17.00	16.70
	002.11ax20-ne0	60	5300	10030	17.00	16.90
		64	5320		17.00	16.65
	802.11n40-HT0	54	5270	MCS0	17.00	16.98
	002.11140-010	62	5310	IVICSU	15.00	14.99
	802.11ac40-VHT0	54	5270	MCS0	17.00	16.95
		62	5310	IVICOU	15.00	14.94
	802.11ax40-HE0	54	5270	MCS0	17.00	16.87
		62	5310	IVICOU	15.00	14.94
	802.11ac80-VHT0	58	5290	MCS0	11.00	10.70
	802.11ax80-HE0	58	5290	MCS0	11.00	10.81

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	Tx1 (S1)								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		100 120	5500 5600	-	16.50 16.50	16.33 16.44			
	802.11a	140	5700	6Mbps	14.50	14.21			
		144	5720		16.50	16.37			
		100	5500	-	16.50	16.37			
	802.11n20-HT0	120	5600	MCS0	16.50	16.38			
		140	5700	-	13.00	12.84			
		144	5720		16.50	16.28			
		100	5500	-	16.50	16.29			
	802.11ac20-VHT0	120	5600	MCS0	16.50	16.31			
		140	5700		13.00	12.81			
		144	5720		16.50	16.17			
	802.11ax20-HE0	100	5500		16.50	16.16			
		120	5600	MCS0	16.50	16.17			
		140	5700		13.00	12.92			
		144	5720		16.50	16.36			
	802.11n40-HT0	102	5510	MCS0	15.50	15.20			
5.6GHz		118	5590		16.50	16.35			
0.00112		134	5670		15.50	15.15			
		142	5710		16.50	16.24			
		102	5510	_	15.50	15.15			
	802.11ac40-VHT0	118	5590	MCS0	16.50	16.22			
	002.110040 1110	134	5670	10000	15.50	15.36			
		142	5710		16.50	16.44			
		102	5510		15.50	15.30			
	802.11ax40-HE0	118	5590	MCS0	16.50	16.43			
		134	5670	10050	15.50	15.24			
		142	5710		16.50	16.36			
		106	5530		14.00	13.99			
	802.11ac80-VHT0	122	5610	MCS0	14.50	14.49			
		138	5690		16.50	16.49			
		106	5530		14.00	13.72			
	802.11ax80-HE0	122	5610	MCS0	14.50	14.42			
		138	5690		16.50	16.35			
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.34			
	802.11ax160-HE0	114	5570	MCS0	10.50	10.25			

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	Tx1 (S1)									
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		149	5745		16.50	16.25				
	802.11a	157	5785	6Mbps	16.50	16.22				
		165	5825		16.50	16.43				
		149	5745		16.50	16.40				
	802.11n20-HT0	157	5785	MCS0	16.50	16.38				
		165	5825		16.50	16.41				
	802.11ac20-VHT0	149	5745		16.50	16.33				
		157	5785	MCS0	16.50	16.45				
		165	5825		16.50	16.26				
5.8GHz		149	5745		16.50	16.29				
5.0GHZ	802.11ax20-HE0	157	5785	MCS0	16.50	16.27				
		165	5825		16.50	16.35				
	802.11n40-HT0	151	5755	MCS0	16.50	16.30				
	002.11140-010	159	5795	10030	16.50	16.25				
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.23				
		159	5795	IVICOU	16.50	16.24				
	802.11ax40-HE0	151	5755	MCS0	16.50	16.43				
	002.11ax40-nEU	159	5795	IVICOU	16.50	16.33				
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.49				
	802.11ax80-HE0	155	5775	MCS0	16.50	16.22				

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		Tx	1 (S1)			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		13.50	13.29
	802.11a	173	5865	6Mbps	13.50	13.45
		177	5885		13.50	13.28
		169	5845		13.50	13.28
	802.11n20-HT0	173	5865	MCS0	14.00	13.72
		177	5885		13.50	13.21
	802.11ac20-VHT0	169	5845		13.50	13.24
		173	5865	MCS0	14.00	13.65
		177	5885		13.50	13.29
5.9GHz		169	5845		13.50	13.32
5.9GHZ	802.11ax20-HE0	173	5865	MCS0	14.00	13.81
		177	5885		13.50	13.17
	802.11n40-HT0	167	5835	MCS0	16.50	16.24
	002.11140-010	175	5875	IVIC SU	16.50	16.44
	802.11ac40-VHT0	167	5835	MCS0	16.50	16.36
	002.11ac40-VH10	175	5875	IVICSU	16.50	16.30
	802.11ax40-HE0	167	5835	MCS0	16.50	16.37
		175	5875	IVICOU	16.50	16.38
	802.11ac80-VHT0	171	5855	MCS0	16.50	16.49
	802.11ax80-HE0	171	5855	MCS0	16.50	16.28

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Tx2 (S2)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		1	2412		20.50	20.49	
		2	2417		20.50	20.42	
		6	2437	1Mbps	20.50	20.47	
	802.11b	10	2457		19.00	18.78	
		11	2462		19.50	19.48	
		12	2467		12.50	12.44	
		13	2472		6.00	5.85	
		1 2	2412	-	18.00	17.66	
		6	2417 2437	-	18.50 21.50	18.29 21.21	
	802.11g	10	2457	6Mbps	19.00	18.93	
	002.119	10	2462	oniopo	17.00	16.69	
		12	2467		16.50	16.30	
		13	2472		10.50	10.19	
		1	2412		17.50	17.34	
		2	2417		19.00	18.92	
		6	2437		21.50	21.30	
	802.11n20-HT0	10	2457	MCS0	18.00	17.84	
		11	2462		16.00	15.71	
		12	2467	-	16.00	15.80	
	802.11ac20-VHT0	13 1	2472 2412	MCS0	5.50 17.50	5.29 17.25	
		2	2412		19.00	18.79	
		6	2437		21.50	21.27	
		10	2457		18.00	17.68	
		11	2462		16.00	15.82	
		12	2467		16.00	15.68	
2.45GHz		13	2472		5.50	5.39	
2.10012		1	2412	MCS0	17.50	17.37	
	802.11ax20-HE0	2	2417		19.00	18.92	
		6 10	2437 2457		21.50 18.00	21.40 17.71	
	002.118.20-1120	10	2457		16.00	15.82	
		12	2467		16.00	15.95	
		13	2472		5.50	5.32	
	802.11n40-HT0	3	2422		16.50	16.35	
		4	2427		16.50	16.29	
		6	2437		16.50	16.42	
		8	2447	MCS0	15.00	14.85	
		9	2452	-	15.00	14.70	
		10	2457		15.00	14.67	
		11 3	2462 2422	MCS0	13.00 16.50	<u>12.74</u> 16.37	
		4	2422		16.50	16.41	
	802.11ac40-VHT0	6	2437		16.50	16.36	
		8	2447		15.00	14.82	
		9	2452		15.00	14.94	
		10	2457		15.00	14.88	
		11	2462		13.00	12.67	
	802.11ax40-HE0	3	2422	MCS0	16.50	16.43	
		4	2427		16.50	16.35	
		6 8	2437 2447		16.50 15.00	<u>16.36</u> 14.77	
		9	2447		15.00	14.77	
		10	2452	1	15.00	14.78	
		11	2462	1	13.00	12.82	
				l			

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Tx2 (S2)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		16.50	16.32
	902 11-	40	5200		16.50	16.38
	802.11a	44	5220	6Mbps	16.50	16.42
		48	5240		16.50	16.34
		36	5180		16.50	16.43
	802.11n20-HT0	40	5200	MCS0	16.50	16.45
		44	5220	IVICSU	16.50	16.41
		48	5240	1	16.50	16.17
	802.11ac20-VHT0	36	5180	MCS0	16.50	16.43
		40	5200		16.50	16.40
		44	5220		16.50	16.16
		48	5240		16.50	16.38
5.15-5.25 GHz	802.11ax20-HE0	36	5180	MCS0	16.50	16.21
5.15-5.25 GHZ		40	5200		16.50	16.32
		44	5220		16.50	16.24
		48	5240		16.50	16.35
	802.11n40-HT0	38	5190	MCS0	15.00	14.99
		46	5230		16.50	16.49
	802.11ac40-VHT0	38	5190	MCS0	15.00	14.73
		46	5230		16.50	16.24
	802.11ax40-HE0	38	5190	MCS0	15.00	14.93
		46	5230		16.50	16.22
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.31
	802.11ax80-HE0	42	5210	MCS0	13.50	13.29
	802.11ac160-VHT0	50	5250	MCS0	9.50	9.44
	802.11ax160-HE0	50	5250	MCS0	9.50	9.27

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Tx2 (S2)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		52	5260		17.00	16.91	
	902 11-	56	5280	GMbba	17.00	16.82	
	802.11a	60	5300	6Mbps	17.00	16.83	
		64	5320		16.50	16.33	
		52	5260		17.00	16.86	
	802.11n20-HT0	56	5280	MCS0	17.00	16.72	
		60	5300	MCSU	17.00	16.77	
		64	5320		17.00	16.90	
	802.11ac20-VHT0	52	5260	MCS0	17.00	16.79	
		56	5280		17.00	16.83	
		60	5300		17.00	16.67	
5.25-5.35 GHz		64	5320		17.00	16.88	
5.25-5.35 GHZ	802.11ax20-HE0	52	5260	MCS0	17.00	16.80	
		56	5280		17.00	16.69	
		60	5300		17.00	16.67	
		64	5320		17.00	16.78	
	802.11n40-HT0	54	5270	MCS0	17.00	16.99	
		62	5310		15.00	14.99	
	802.11ac40-VHT0	54	5270	MCS0	17.00	16.91	
		62	5310		15.00	14.84	
	802.11ax40-HE0	54	5270	MCS0	17.00	16.78	
		62	5310		15.00	14.66	
	802.11ac80-VHT0	58	5290	MCS0	11.00	10.73	
	802.11ax80-HE0	58	5290	MCS0	11.00	10.87	

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		Tx	2 (S2)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		16.50	16.33
	000.44	120	5600	0.4	16.50	16.21
	802.11a	140	5700	6Mbps	14.50	14.28
		144	5720	-	16.50	16.27
		100	5500		16.50	16.22
	000 44-00 1170	120	5600	MOGO	16.50	16.24
	802.11n20-HT0	140	5700	MCS0	13.00	12.70
		144	5720		16.50	16.43
		100	5500		16.50	16.39
	000 44 00 \ // ITO	120	5600	MOGO	16.50	16.34
	802.11ac20-VHT0	140	5700	MCS0	13.00	12.90
		144	5720		16.50	16.38
	802.11ax20-HE0	100	5500	MCS0	16.50	16.45
		120	5600		16.50	16.36
		140	5700		13.00	12.79
		144	5720		16.50	16.16
	802.11n40-HT0	102	5510		15.50	15.38
5.6GHz		118	5590	MCS0	16.50	16.25
5.0GHZ		134	5670	IVIC SU	15.50	15.42
		142	5710		16.50	16.22
	802.11ac40-VHT0	102	5510	MCS0	15.50	15.21
		118	5590		16.50	16.23
		134	5670		15.50	15.42
		142	5710		16.50	16.16
	802.11ax40-HE0	102	5510	MCS0	15.50	15.43
		118	5590		16.50	16.32
		134	5670		15.50	15.34
		142	5710		16.50	16.30
	802.11ac80-VHT0	106	5530		14.00	13.83
		122	5610	MCS0	14.50	14.49
		138	5690		16.50	16.49
	802.11ax80-HE0	106	5530	MCS0	14.00	13.91
		122	5610		14.50	14.28
		138	5690		16.50	16.42
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.42
	802.11ax160-HE0	114	5570	MCS0	10.50	10.40

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Tx2 (S2)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		16.50	16.15
	802.11a	157	5785	6Mbps	16.50	16.29
		165	5825		16.50	16.31
		149	5745	MCS0	16.50	16.23
	802.11n20-HT0	157	5785		16.50	16.42
		165	5825		16.50	16.38
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.32
		157	5785		16.50	16.31
		165	5825		16.50	16.35
5.8GHz	802.11ax20-HE0	149	5745		16.50	16.20
5.0GHZ		157	5785	MCS0	16.50	16.30
		165	5825		16.50	16.31
	802.11n40-HT0	151	5755	MCS0	16.50	16.27
		159	5795		16.50	16.27
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.19
		159	5795		16.50	16.20
	802.11ax40-HE0	151	5755	MCS0	16.50	16.38
		159	5795		16.50	16.19
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.49
	802.11ax80-HE0	155	5775	MCS0	16.50	16.44

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		Tx	2 (S2)			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		13.50	13.25
	802.11a	173	5865	6Mbps	13.50	13.39
		177	5885		13.50	13.18
		169	5845		13.50	13.17
	802.11n20-HT0	173	5865	MCS0	14.00	13.71
		177	5885		13.50	13.30
		169	5845		13.50	13.21
	802.11ac20-VHT0	173	5865	MCS0	14.00	13.73
		177	5885		13.50	13.34
5.9GHz		169	5845		13.50	13.19
5.9GHZ	802.11ax20-HE0	173	5865	MCS0	14.00	13.85
		177	5885		13.50	13.40
	802.11n40-HT0	167	5835	MCS0	16.50	16.45
	002.11140-010	175	5875	10030	16.50	16.30
	802.11ac40-VHT0	167	5835	MCS0	16.50	16.43
	002.11aC40-VH10	175	5875	10030	16.50	16.41
	802.11ax40-HE0	167	5835	MCS0	16.50	16.28
	002.11aX40-HEU	175	5875	10030	16.50	16.33
	802.11ac80-VHT0	171	5855	MCS0	16.50	16.49
	802.11ax80-HE0	171	5855	MCS0	16.50	16.33

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6.2 WIFI 6E

Tx1 (S1)											
Band	Mode	Channel Frequency Dat (MHz)		Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		1	5955		7.50	7.42					
	802.11ax20-HE0	45	6175	MCS0	7.00	6.66					
		93	6415		7.00	6.67					
		3	5965		10.00	9.82					
	802.11ax40-HE0	43	6165	MCS0	10.00	9.80					
U-NII-5		91	6405		10.00	9.68					
6.2GHz		7	5985		13.00	12.93					
	802.11ax80-HE0	39	6145	MCS0	13.00	12.71					
		87	6385		13.00	12.71					
		15	6025		14.50	14.49					
	802.11ax160-HE0	47	47 6185		14.50	14.33					
		79	6345		14.50	14.32					
			Tx1 (S1)								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		97	6435		7.00	6.70					
	802.11ax20-HE0	105	6475	MCS0	7.50	7.16					
		113	6515		7.00	6.81					
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.72					
6.5GHz		107	6485	10000	10.00	9.94					
	802.11ax80-HE0	103	6465	MCS0	13.00	12.67					
		119	6545		13.00	12.81					
	802.11ax160-HE0	111	6505	MCS0	15.00	14.99					

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			Tx1 (S1)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.88
	802.11ax20-HE0	149	6695	MCS0	7.50	7.36
		181	6855		7.00	6.84
		115	6525		10.50	10.40
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.66
6.7GHz		179	6845		10.00	9.89
0.7 GHZ		135	6625		13.00	12.67
	802.11ax80-HE0	151	6705	MCS0	13.00	12.70
		167	6785		13.00	12.84
	802.11ax160-HE0	143	6665	MCS0	15.00	14.99
	002.11ax100-11L0	175	6825	NC30	15.00	14.98
			Tx1 (S1)			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875		7.00	6.67
	802.11ax20-HE0	209	6995	MCS0	7.00	6.72
		233	7115		7.50	7.38
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.77
7.0GHz		227	7085	10000	10.50	10.41
		183	6865		13.00	12.99
	802.11ax80-HE0	199 215	6945	MCS0	13.00	12.98
			7025		12.50	12.38
	802.11ax160-HE0	207	6985	MCS0	11.50	11.44

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			Tx2 (S2)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.50	7.30
	802.11ax20-HE0	45	6175	MCS0	7.00	6.73
		93	6415		7.00	6.72
		3	5965		10.00	9.71
	802.11ax40-HE0	43	6165	MCS0	10.00	9.66
U-NII-5		91	6405		10.00	9.76
6.2GHz		7	5985		13.00	12.84
	802.11ax80-HE0	39	6145	MCS0	13.00	12.94
		87	6385		13.00	12.67
		15	6025		14.50	14.48
	802.11ax160-HE0	47	6185	MCS0	14.50	14.41
		79	6345		14.50	14.44
			Tx2 (S2)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.70
	802.11ax20-HE0	105	6475	MCS0	7.50	7.20
		113	6515		7.00	6.90
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.73
6.5GHz		107	6485	IVIC OU	10.00	9.83
	802.11ax80-HE0	103	6465	MCS0	13.00	12.67
		119	6545		13.00	12.75
	802.11ax160-HE0	111	6505	MCS0	15.00	14.99

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			Tx2 (S2)								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		117	6535		7.00	6.84					
	802.11ax20-HE0	149	6695	MCS0	7.50	7.28					
		181	6855		7.00	6.94					
		115	6525		10.50	10.35					
	802.11ax40-HE0	147	6685	MCS0	10.00	9.81					
U-NII-7		179	6845		10.00	9.75					
6.7GHz		135	6625		13.00	12.71					
	802.11ax80-HE0	151	6705	MCS0	13.00	12.82					
		167	6785		13.00	12.72					
	802.11ax160-HE0	143	6665	MCS0	15.00	14.97					
	002.118X100-HEU	175	6825	IVIC30	15.00	14.87					
			Tx2 (S2)								
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		185	6875		7.00	6.88					
	802.11ax20-HE0	209	6995	MCS0	7.00	6.68					
		233	7115		7.50	7.20					
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.93					
7.0GHz		227	7085	WOOO	10.50	10.25					
1.0012		183	6865		13.00	12.88					
	802.11ax80-HE0	199 215	6945	MCS0	13.00	12.96					
			7025		12.50	12.48					
	802.11ax160-HE0	207	6985	MCS0	11.50	11.44					

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6.3 **Bluetooth**

			1Mbps		2Mbps		3Mbps		
Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
	CH 00	2402		5.75		5.73		5.26	
BR/EDR	CH 39	2441	6.00	5.99	6.00	5.37	6.00	5.66	
	CH 78	2480		5.84		5.99		5.46	

BLE 6.4

Mode	Channel	Frequency	GFSK					
Mode	Charliner	(MHz) Max. Rated Avg.Power + Max. Tolerance (dBm)		Average Output Power (dBm)				
	CH 00	2402		5.83				
BLE_1M	CH 19	2440	6	5.65				
	CH 39	2480		5.88				
Mode	Channel	Frequency	(GFSK				
Mode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)				
	CH 00	2402		5.54				
BLE_2M	CH 19 2440 6		6	5.67				
	CH 39	2480		5.79				

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5G n4	0 duty		(0.606/0.636=0.952) Scaling Factor=1.050							
1 Spectrum	Ý						1		636.0 µ	
cale/Div 10 dl	3			Ref Level 11.31	dBm				-2.19 d	
Log 1,31										
8,69										
18.7										
28.7 38.7	na Maria Mira an		وتستحد فالمأجللي	nine na Xardad	and set on the set		ud Jose Grand	utility also	Unit un ales	
48.7	denter and the	in the second	Anderson	areaupt veloce	al and parts	<mark>ilill</mark> <mark>pain</mark>	dil-pitnore	and a large	Constant in	
58.7						1				
68 7										
enter 5.23000 tes BW 8 MHz				#Video BW 1.0) MHz		Swee	ep 3.00 m	Span 0 1 s (1001 pt	
Marker Table										
Mada	Trace Sca		v	Y	Function	Event	on Midth	Function	va Value	
Mode 1 Δ2	Trace Sca 1 t	and a second	X 606.0 µs	γ (Δ) -0.8643 dB	Function	Functi	on Width	Function	on Value	
2 F	1 t		1.361 ms	-34.47 dBm						
3 <u>Δ</u> 4 4 F	1 t 1 t	<u>(Δ)</u>	636.0 µs 1.362 ms							
5			1.302 113	-04.47 UDII						
6										
			(0.0	4.0/0.040	0.040) l'un un F		1 005		
5G ac8	30 duty		(0.3	16/0.346=	0.913) S	Scaling F				
5G act	*					Scaling F		Mkr3 3	46.0 µs	
5G ace Spectrum cale/Div 10 dB	*			16/0.346= Ref Level 11.31		Scaling F		Mkr3 3		
5G ac8 Spectrum cale/Div 10 dB	*					Scaling F		Mkr3 3		
5G ac8 Spectrum cale/Div 10 dB 0g .31	*					Scaling F		Mkr3 3		
5G ac8 Spectrum cale/Div 10 dB 9 31 859 8.7	*					Scaling F		Mkr3 3	46.0 µs 0.33 dB	
5G ac8 Spectrum cale/Div 10 dB .31 .31 .37			F	Ref Level 11.31	dBm		ΔI	Mkr3 3		
5G ac8 Spectrum cale/Div 10 dB .31 .31 .37		i ja kenna a ki	F		dBm		ΔI	Mkr3 3	0.33 dB	
5G ac8 Spectrum cale/Div 10 dB 0g .31 .69 .87 .87 .87 .87 .87 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90		a la forma de la f	F	Ref Level 11.31	dBm		ΔI	Mkr3 3	0.33 dB	
5G ac8 Spectrum cale/Div 10 dB 0g .31 .69 .87 .87 .87 .87 .887 .887 .887		a je trans da postala se da	F	Ref Level 11.31	dBm		ΔI	Mkr3 3	0.33 dB	
5G ac8 Spectrum cale/Div 10 dB 0g .31 .69 .87 .87 .87 .87 .887 .887 .887		a la finanza da la composicione de la compo	F	Ref Level 11.31	dBm		ΔI	Mkr3 3	0.33 dB	
5G ac8 Spectrum cale/Div 10 dB og 31 87 87 87 87 87 87 87 87 87 87 87 87 87			Free and the second	Ref Level 11.31			Δ1	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB 0g 31 87 87 87 87 87 87 87 87 87 87 87 87 87		i ja Terretari de Jacobia	Free and the second	Ref Level 11.31			Δ1	Mkr3 3	0.33 dB	
5G ac8 Spectrum cale/Div 10 dB 0 31 169 87 87 87 87 87 87 87 87 87 87 87 87 87			Free and the second	Ref Level 11.31			Δ1	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB 00 03 13 16 7 18 7 18 7 18 7 18 7 18 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	0000 GHz			Ref Level 11.31	dBm		AI AI AI AI AI Sweep	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB 0g 31 87 87 87 87 887 887 887 887 887 887 88		e		Ref Level 11.31	dBm		Δ1	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB og .31 .69 .87 .94 .94 .94 .94 .94 .94 .94 .94 .94 .94 .95 .94 .95 .94 .95 .95 .96 .97 .97 .94<	000 GHz	e (Δ)	X 316.0 µs (454.0 µs	Ref Level 11.31 #Video BW 1.0 Υ Δ) 1.918 dB -38.48 dBm	dBm		AI AI AI AI AI Sweep	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB 0g 31 369 387 287 7 7 7 7 687 787 687	000 GHz	e	X 316.0 µs (454.0 µs (Ref Level 11.31 #Video BW 1.0 Υ Δ) 1.918 dB -38.48 dBm Δ) 0.3263 dB	dBm		AI AI AI AI AI Sweep	Mkr3 3	0.33 dE	
5G ac8 Spectrum cale/Div 10 dB 0g .31 .69 .87 .87 .887 .887 .887 .887 .887 .887 .941 .941 .942 Marker Table Mode T 1 Δ2 2 F	000 GHz	e (Δ)	X 316.0 µs (454.0 µs	Ref Level 11.31 #Video BW 1.0 Υ Δ) 1.918 dB -38.48 dBm	dBm		AI AI AI AI AI Sweep	Mkr3 3	0.33 dE	

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6E ax8	0 duty		(7.9	27/8.034=	0.986) So	aling Factor=	1.014	
1 Spectrum Scale/Div 10 dE	,			Ref Level 0.00	dBm	∆Mkr3 8.03 1.		
10.U								
2010 9010								
40 0 white how must	weet mand for	and the section of	Contenent of the second	and and a second and	Muberhaussness	wenutatehttfortheterheater	Thereday and a starting and the starting and the starting and the starting and the start and the sta	
50 0 60 0	^	2						
100 100								
10.0								
0.0								
enter 6.14500 es BW 8 MHz	0000 GHZ			Video BW 8.0	MHZ	Swee	Span 0 ep 11.9 ms (1001 pi	
Marker Table								
Mode	Trace Scale	2	x	Ý	Function	Function Width	Function Value	
1 Δ2	1 t	(Δ)	7.927 ms		1000	Provident State		
2 F 3 Δ4	1 t 1 t	(Δ)	2.207 ms 8.034 ms	-44.20 dBm (Δ) 1.086 dB				
4 F	1 t	<u>,</u> ,	2.207 ms	-44.20 dBm				
5								
6								
	60 duty	Ī	(7.9	03/7.998=0).988) So	aling Factor=	1.012	
6 6E ax16	60 duty		(7.9	03/7.998=0).988) So		Mkr3 7.998 ms	
6 6E ax10 Spectrum Scale/Div 10 dl				03/7.998=(Ref Level 0.00			Mkr3 7.998 m	
6 6E ax16 Spectrum cale/Div 10 di							Mkr3 7.998 m	
6 6E ax16 I Spectrum Scale/Div 10 dl og 10.0 20 0							Mkr3 7.998 m: -1.78 dB	
6 6E ax10 Spectrum ccale/Div 10 dl og 10.0 20 0	, B	freedown was		Ref Level 0.00 (dBm		Mkr3 7.998 m	
6 6E ax10 Spectrum icale/Div 10 dl og 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	, B	(n <u>.</u>		Ref Level 0.00 (iBm	Δ	Mkr3 7.998 m -1.78 dl	
6 6E ax10 Spectrum cale/Div 10 dl 00 00 00 00 00 00 00 00 00 00 00 00 00	, B	(m. +		Ref Level 0.00 (iBm	Δ	Mkr3 7.998 m -1.78 dl	
6 6E ax10 Spectrum ccale/Div 10 dl 00 00 00 00 00 00 00 00 00 00 00 00 00	, B	(n.,-h.,) 2		Ref Level 0.00 (iBm	Δ	Mkr3 7.998 m -1.78 dl	
6 6E ax10 Spectrum 5cale/Div 10 dl 00 00 00 00 00 00 00 00 00 00 00 00 00	, B	(n		Ref Level 0.00 (iBm	Δ	Mkr3 7.998 m -1.78 dl	
6 6 6 ax16 1 Spectrum Scale/Div 10 dl 00 00 00 00 00 00 00 00 00 00 00 00 00	B	(m. +		Ref Level 0.00 (iBm	אר איז איז איז איז איז איז איז איז איז איז	Mkr3 7.998 m -1.78 dl 3Δ4 Span 0 H	
6 6 6 ax16 1 Spectrum Scale/Div 10 dl 00 00 00 00 00 00 00 00 00 00 00 00 00	B	(northe-m)		Ref Level 0.00	iBm	אר איז איז איז איז איז איז איז איז איז איז	Mkr3 7.998 m -1.78 df 304 Span 0 H	
6 6 6 ax16 1 Spectrum 5 cale/Div 10 dl 0 0 20 D 20 D 20 D 20 D 20 D 20 D 20 D	B	(₂ ,		Ref Level 0.00	iBm	אר איז איז איז איז איז איז איז איז איז איז	Mkr3 7.998 m -1.78 df 304 Span 0 H	
6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	B 		rææd Misedela Jose	Ref Level 0.00 (iBm	אר איז איז איז איז איז איז איז איז איז איז	Mkr3 7.998 m -1.78 dl 3Δ4 Span 0 H	
6 6 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	B 00000 GHz Trace Scale	2 (Δ)	× 7.903 ms (Ref Level 0.00 (Video BW 8.0) Υ (Δ) 1.044 dB	iBm	AT 1990 ANNOVE TIME AND AND A	Mkr3 7.998 m -1.78 dl 304 Span 0 H p 11.9 ms (1001 pt	
6 6 6 6 6 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	B 00000 GHz Trace Scale	(Δ)	X 7.903 ms 2.338 ms	Ref Level 0.00 (Video BW 8.0 Ι Υ (Δ) 1.044 dB -42.97 dBm	iBm	AT 1990 ANNOVE TIME AND AND A	Mkr3 7.998 m -1.78 df -1.78 df	
6 6 6 6 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	B 00000 GHz Trace Scald 1 t		× 7.903 ms (Ref Level 0.00 (Video BW 8.0 Ι Υ (Δ) 1.044 dB -42.97 dBm	iBm	AT 1990 ANNOVE TIME AND AND A	Mkr3 7.998 m -1.78 df -1.78 df	
6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	B B DO000 GHz Trace Scale 1 t 1 t	(Δ)	x 7.903 ms 2.338 ms 7.996 ms	Ref Level 0.00 (Video BW 8.0 f (Δ) 1.044 dB -42.97 dBm (Δ) -1.780 dB	iBm	AT 1990 ANNOVE TIME AND AND A	Mkr3 7.998 ms -1.78 dE 304 Span 0 H p 11.9 ms (1001 pts	

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SUMMARY OF RESULTS 8

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.

8.2 Summary of SAR Results

Notebook mode

Vendor 2

Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	1	2412	20.50	20.48	1.00	100.46%	0.209	0.211	001
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	6	2437	20.50	20.40	1.00	100.40%	0.188	0.190	-
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	11	2462	19.50	19.47	1.00	100.69%	0.179	0.180	
WEAR 002.11D	1x1 (31)	Dottom Sunace	-		2402			1.00	100.0378	0.179	0.101	
Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
mode	, arconne	1 000001	(mm)	onannoi	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
Bluetooth(GFSK)	Tx1 (S1)	Bottom Surface	0	39	2441	6.00	5,99	1.00	100.23%	0.017	0.017	002
	()					Max. Rated Avg.	Measured					
Mode	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)	1	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11n(40M) 5.2G	Tx1 (S1)	Bottom Surface	0	46	5230	16.50	16.49	1.05	100.23%	0.160	0.168	003
			Distance		E	Max. Rated Avg.	Measured	Dutumula	Damas	Averaged SAP	over 1g (W/kg)	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max.	Avg. Power	Duty cycle scaling	Power scaling		over ig (vv/kg)	ID
			. ,			Tolerance (dBm)	(dBm)	scaling	Ů	Measured	Reported	
WLAN 802.11n(40M) 5.3G	Tx1 (S1)	Bottom Surface	0	54	5270	17.00	16.98	1.05	100.46%	0.164	0.173	004
			Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling	-		ID
			. ,		· · /	Tolerance (dBm)	(dBm)	Ű	Ů	Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx1 (S1)	Bottom Surface	0	138	5690	16.50	16.49	1.10	100.23%	0.165	0.181	005
			Distance	1	Frea.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling	, , , , , , , , , , , , , , , , , , ,	0 (0 ,	ID
			. ,			Tolerance (dBm)	(dBm)		Ů	Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx1 (S1)	Bottom Surface	0	155	5775	16.50	16.49	1.10	100.23%	0.440	0.483	006
			Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling	-		ID
						Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Tx1 (S1)	Bottom Surface	0	171	5855	16.50	16.49	1.10	100.23%	0.419	0.460	007
Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Mode	Antenna	Position	(mm)	Channel	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	U
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	1	2412	20.50	20.49	1.00	100.23%	0.367	0.369	008
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	6	2437	20.50	20.47	1.00	100.69%	0.347	0.350	-
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	11	2462	19.50	19.48	1.00	100.46%	0.320	0.322	-
WEAR 002.11D	1,22 (32)	Bottom Sunace	————		2402			1.00	100.4078	Averaged S		
Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged S (W/		ID
Wode	Antenna	POSILIOIT	(mm)	Ghanner	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11n(40M) 5.2G	Tx2 (S2)	Bottom Surface	0	46	5230	16.50	16.49	1.05	100.23%	0.285	0.300	009
112 11 002: 1 m(10m) 0:20	1742 (02)	Dottom Odinado	i i i i i i i i i i i i i i i i i i i		0200	Max. Rated Avg.	Measured	1.00	100.2070			
Mode	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
modo	, unconnica	1 000001	(mm)	onannoi	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11n(40M) 5.3G	Tx2 (S2)	Bottom Surface	0	54	5270	17.00	16.99	1.05	100.23%	0.279	0.294	010
	()					Max. Rated Avg.	Measured				•	
Mode	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Tx2 (S2)	Bottom Surface	0	106	5530	14.00	13.83	1.10	103.99%	0.122	0.139	-
WLAN 802.11ac(80M) 5.6G	Tx2 (S2)	Bottom Surface	0	122	5610	14.50	14.49	1.10	100.23%	0.228	0.250	-
WLAN 802.11ac(80M) 5.6G	Tx2 (S2)	Bottom Surface	0	138	5690	16.50	16.49	1.10	100.23%	0.301	0.330	011
						Max. Rated Avg.	Measured					
Mode	Antenna	Position	Distance	Channel	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx2 (S2)	Bottom Surface	0	155	5775	16.50	16.49	1.10	100.23%	0.296	0.325	012
			Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max.	Avg. Power	scaling	scaling	-		ID
			()		(Tolerance (dBm)	(dBm)			Measured	Reported	(
WLAN 802.11ac(80M) 5.9G	Tx2 (S2)	Bottom Surface	0	171	5855	16.50	16.49	1.10	100.23%	0.282	0.310	013

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Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
modo	/ erconne	1 Oblight	(mm)	onamo	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported		W/m^2 (4cm^2)	.5
U-NII-5 6.2GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	15	6025	14.50	14.49	1.01	100.23%	0.155	0.157	1.13	1.146	014
U-NII-5 6.2GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	47	6185	14.50	14.33	1.01	103.99%	0.230	0.242	1.69	1.779	015
	. ,													
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		(Tolerance (dBm)	(dBm)	obdailing	occurry	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-6 6.5GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	111	6505	15.00	14.99	1.01	100.23%	0.250	0.254	1.65	1.674	016
										-				
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		(Tolerance (dBm)	(dBm)	obdailing	occurry	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-7 6.7GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	143	6665	15.00	14.99	1.01	100.23%	0.221	0.224	1.53	1.552	017
										-				
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			(1111)		(101112)	Tolerance (dBm)	(dBm)	acamig	scaning	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-8 7.0GHz802.11ax(80M)	Tx1 (S1)	Bottom Surface	0	183	6865	13.00	12.99	1.01	100.23%	0.131	0.133	0.866	0.880	018
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	-	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD W/m^2 (4cm^2)	ID
	T. 0. (0.0)				0005		. ,		100.100/	Measured	Reported	. ,	. ,	
U-NII-5 6.2GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	15	6025	14.50	14.48	1.01	100.46%	0.243	0.247	1.82	1.850	019
U-NII-5 6.2GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	47	6185	14.50	14.41	1.01	102.09%	0.181	0.187	1.31	1.353	020
U-NII-5 6.2GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	79	6345	14.50	14.44	1.01	101.39%	0.158	0.162	1.18	1.211	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		(Tolerance (dBm)	(dBm)			Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-6 6.5GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	111	6505	15.00	14.99	1.01	100.23%	0.148	0.150	1.10	1.116	021
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			(1111)		(11112)	Tolerance (dBm)	(dBm)	adaming	scaling	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-7 6.7GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	143	6665	15.00	14.97	1.01	100.69%	0.131	0.133	0.957	0.975	022
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			. /		. /	Tolerance (dBm)	(dBm)			Measured	Reported	. ,	W/m^2 (4cm^2)	
U-NII-8 7.0GHz802.11ax(80M)	Tx2 (S2)	Bottom Surface	0	199	6945	13.00	12.96	1.01	100.93%	0.089	0.091	0.661	0.676	023

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Vendor 1

Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	1	2412	20.50	20.48	1.00	100.46%	0.184	0.185	024
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	6	2437	20.50	20.47	1.00	100.69%	0.171	0.173	-
WLAN 802.11b	Tx1 (S1)	Bottom Surface	0	11	2462	19.50	19.47	1.00	100.69%	0.144	0.145	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR		ID
			. ,			Tolerance (dBm)	(dBm)		•	Measured	Reported	
Bluetooth(GFSK)	Tx1 (S1)	Bottom Surface	0	39	2441	6.00	5.99	1.00	100.23%	0.014	0.014	025
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11n(40M) 5.2G	Tx1 (S1)	Bottom Surface	0	46	5230	16.50	16.49	1.05	100.23%	0.112	0.118	026
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11n(40M) 5.3G	Tx1 (S1)	Bottom Surface	0	54	5270	17.00	16.98	1.05	100.46%	0.148	0.156	027
Mode	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 Measured		ID
WLAN 802.11ac(80M) 5.6G	Tx1 (S1)	Bottom Surface	0	138	5690	16.50	16.49	1.10	100.23%	0.249	0.273	028
Mode	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 Measured		ID
WLAN 802.11ac(80M) 5.8G	Tx1 (S1)	Bottom Surface	0	155	5775	16.50	16.49	1.10	100.23%	0.362	0.397	029
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.9G	Tx1 (S1)	Bottom Surface	0	171	5855	16.50	16.49	1.10	100.23%	0.349	0.383	030
Mode	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 Measured		ID
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	1	2412	20.50	20.49	1.00	100.23%	0.278	0.279	031
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	6	2437	20.50	20.47	1.00	100.69%	0.265	0.268	-
WLAN 802.11b	Tx2 (S2)	Bottom Surface	0	11	2462	19.50	19.48	1.00	100.46%	0.241	0.243	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged S (W/ Measured		ID
WLAN 802.11n(40M) 5.2G	Tx2 (S2)	Bottom Surface	0	46	5230	16.50	16.49	1.05	100.23%	0.215	0.226	032
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11n(40M) 5.3G	Tx2 (S2)	Bottom Surface	0	54	5270	17.00	16.99	1.05	100.23%	0.273	0.287	033
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.6G	Tx2 (S2)	Bottom Surface	0	138	5690	16.50	16.49	1.10	100.23%	0.517	0.567	034
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.8G	Tx2 (S2)	Bottom Surface	0	155	5775	16.50	16.49	1.10	100.23%	0.649	0.712	035
Mode	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 Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.9G	Tx2 (S2)	Bottom Surface	0	171	5855	16.50	16.49	1.10	100.23%	0.521	0.572	036
**LPIN 002. 1 lac(0010) 3.9G	1 1/2 (32)	Dottom Sunace	U	1/1	3033	10.00	10.43	1.10	100.2376	0.321	0.012	030

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Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
1000	/ enconnea	1 000001	(mm)	onamo	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported		W/m^2 (4cm^2)	.0
U-NII-5 6.2GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	15	6025	14.50	14.49	1.01	100.23%	0.161	0.163	1.26	1.278	037
U-NII-5 6.2GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	47	6185	14.50	14.33	1.01	103.99%	0.113	0.119	0.872	0.918	038
U-NII-5 6.2GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	79	6345	14.50	14.32	1.01	104.23%	0.105	0.111	0.812	0.857	-
														I I I I I I I I I I I I I I I I I I I
Mode	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 Measured	over 1g (W/kg) Reported	Estimated Measured APD W/m^2 (4cm^2)	Estimated Reported APD W/m^2 (4cm^2)	ID
U-NII-6 6.5GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	111	6505	15.00	14.99	1.01	100.23%	0.087	0.088	0.737	0.748	039
0-INII-0 0.50H2002. Hax(100W)	1x1 (31)	Bollom Sunace	0		0303	13.00	14.99	1.01	100.23%	0.087	0.000	0.737	0.740	039
Mode	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 Measured	over 1g (W/kg) Reported	Estimated Measured APD W/m^2 (4cm^2)	Estimated Reported APD W/m^2 (4cm^2)	ID
U-NII-7 6.7GHz802.11ax(160M)	Tx1 (S1)	Bottom Surface	0	143	6665	15.00	14.99	1.01	100.23%	0.127	0.129	1.02	1.035	040
0-141-7 0.7 G1 2002. TTax(10014)	1x1 (01)	Doctorn Garrage	0	145	0000	13.00	14.33	1.01	100.2370	0.127	0.123	1.02	1.000	040
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		(Tolerance (dBm)	(dBm)			Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-8 7.0GHz802.11ax(80M)	Tx1 (S1)	Bottom Surface	0	183	6865	13.00	12.99	1.01	100.23%	0.114	0.116	0.75	0.762	041
Tx2 (S2)														
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		()	Tolerance (dBm)	(dBm)	3		Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-5 6.2GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	15	6025	14.50	14.48	1.01	100.46%	0.185	0.188	1.43	1.454	042
U-NII-5 6.2GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	79	6345	14.50	14.44	1.01	101.39%	0.170	0.174	1.28	1.313	043
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			(1111)		(101112)	Tolerance (dBm)	(dBm)	acamig	scanny	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-6 6.5GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	111	6505	15.00	14.99	1.01	100.23%	0.264	0.268	1.94	1.968	044
		•							•					
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power	Averaged SAR	over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
			()		(Tolerance (dBm)	(dBm)	obuing	occurry	Measured	Reported	W/m^2 (4cm^2)	W/m^2 (4cm^2)	
U-NII-7 6.7GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	143	6665	15.00	14.97	1.01	100.69%	0.352	0.359	2.48	2.527	045
U-NII-7 6.7GHz802.11ax(160M)	Tx2 (S2)	Bottom Surface	0	175	6825	15.00	14.87	1.01	103.04%	0.314	0.327	2.19	2.284	-
										-				
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	Estimated Measured APD	Estimated Reported APD	ID
						Tolerance (dBm)	(dBm)			Measured	Reported	. ,	W/m^2 (4cm^2)	
U-NII-8 7.0GHz802.11ax(80M)	Tx2 (S2)	Bottom Surface	0	199	6945	13.00	12.96	1.01	100.93%	0.077	0.079	0.488	0.499	046

Note:

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

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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8.3 Summary of PD Results

Vendor 2

			Distance		Farm	Max. Rated Avg.	Measured	T	2.4			PD res	ult(4cm)		
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
WLAN 6E 802.11ax(160M)	Tx1 (S1)	Bottom Surface	2	15	6025	14.50	14.49	100.23%	1.01	1.55	1.190	1.871	1.140	1.792	047
U-NII-5	Tx1 (S1)	Bottom Surface	2	47	6185	14.50	14.33	103.99%	1.01	1.55	2.210	3.605	1.990	3.246	048
WLAN 6E 802.11ax(160M) U-NII-6	Tx1 (S1)	Bottom Surface	2	111	6505	15.00	14.99	100.23%	1.01	1.55	1.920	3.019	1.740	2.736	049
WLAN 6E 802.11ax(160M) U-NII-7	Tx1 (S1)	Bottom Surface	2	143	6665	15.00	14.99	100.23%	1.01	1.55	1.750	2.751	1.620	2.547	050
WLAN 6E 802.11ax(80M) U-NII-8	Tx1 (S1)	Bottom Surface	2	183	6865	13.00	12.99	100.23%	1.01	1.55	1.110	1.745	0.989	1.555	051
			Distance		Freq.	Max. Rated Avg.	Measured	Tune-up		Measurement		PD res	ult(4cm)		
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	Duty cycle scaling	uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
WLAN 6E 802.11ax(160M)	Tx2 (S2)	Bottom Surface	2	15	6025	14.50	14.48	100.46%	1.01	1.55	1.710	2.695	1.630	2.569	052
U-NII-5	Tx2 (S2)	Bottom Surface	2	47	6185	14.50	14.41	102.09%	1.01	1.55	1.190	1.906	1.120	1.794	053
WLAN 6E 802.11ax(160M) U-NII-6	Tx2 (S2)	Bottom Surface	2	111	6505	15.00	14.99	100.23%	1.01	1.55	1.620	2.547	1.410	2.217	054
WLAN 6E 802.11ax(160M) U-NII-7	Tx2 (S2)	Bottom Surface	2	143	6665	15.00	14.97	100.69%	1.01	1.55	1.200	1.895	1.120	1.769	055
WLAN 6E 802.11ax(80M) U-NII-8	Tx2 (S2)	Bottom Surface	2	199	6945	11.50	11.44	101.39%	1.01	1.55	1.220	1.940	1.110	1.765	056

Vendor 1

			Distance		Freq.	Max. Rated Avg.	Measured	Tune-up	Duty cycle	Measurement		PD res	ult(4cm)		
Mode	Antenna	Position	(mm)	Channel	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	scaling	uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m ²)	ID
WLAN 6E 802.11ax(160M)	Tx1 (S1)	Bottom Surface	2	15	6025	14.50	14.49	100.23%	1.01	1.55	0.630	0.990	0.554	0.871	057
U-NII-5	Tx1 (S1)	Bottom Surface	2	47	6185	14.50	14.33	103.99%	1.01	1.55	0.919	1.499	0.879	1.434	058
WLAN 6E 802.11ax(160M) U-NII-6	Tx1 (S1)	Bottom Surface	2	111	6505	15.00	14.99	100.23%	1.01	1.55	0.401	0.630	0.384	0.604	059
WLAN 6E 802.11ax(160M) U-NII-7	Tx1 (S1)	Bottom Surface	2	143	6665	15.00	14.99	100.23%	1.01	1.55	0.477	0.750	0.429	0.674	060
WLAN 6E 802.11ax(80M) U-NII-8	Tx1 (S1)	Bottom Surface	2	183	6865	13.00	12.99	100.23%	1.01	1.55	0.441	0.693	0.422	0.663	061

			D: 1		Fairs	Max. Rated Avg.	Measured					PD res	ult(4cm)		
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	ID
WLAN 6E 802.11ax(160M)	Tx2 (S2)	Bottom Surface	2	15	6025	14.50	14.48	100.46%	1.01	1.55	1.600	2.521	1.300	2.049	062
U-NII-5	Tx2 (S2)	Bottom Surface	2	79	6345	14.50	14.44	101.39%	1.01	1.55	2.020	3.213	1.730	2.751	063
WLAN 6E 802.11ax(160M) U-NII-6	Tx2 (S2)	Bottom Surface	2	111	6505	15.00	14.99	100.23%	1.01	1.55	2.440	3.836	1.970	3.097	064
WLAN 6E 802.11ax(160M) U-NII-7	Tx2 (S2)	Bottom Surface	2	143	6665	15.00	14.97	100.69%	1.01	1.55	3.430	5.418	2.700	4.265	065
WLAN 6E 802.11ax(80M) U-NII-8	Tx2 (S2)	Bottom Surface	2	199	6945	13.00	11.44	143.22%	1.01	1.55	0.869	1.952	0.801	1.799	066

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.

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SIMULTANEOUS TRANSMISSION ANALYSIS 9

9.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Tx1 + WLAN 2.4GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 5GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1	Yes
WLAN 6GHz Tx1 + WLAN 6GHz Tx2	Yes
WLAN 6GHz Tx1 + WLAN 6GHz Tx2 + BT Tx1	Yes
WLAN 2.4GHz Tx1 + WLAN 5GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 2.4GHz Tx2	Yes
WLAN 2.4GHz Tx1 + WLAN 6GHz Tx2	Yes
WLAN 6GHz Tx1 + WLAN 2.4GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 6GHz Tx2	Yes
WLAN 6GHz Tx1 + WLAN 5GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 6GHz Tx2 + BT Tx1	Yes
WLAN 6GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1	Yes

Note:

1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.

2. For 2.4/5GHz 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 SAR measurement.

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9.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR = $\frac{\text{Max.tune up power (mW)}}{\text{Min.test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

9.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(SAR1 + SAR2)^{1.5/Ri}$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

				FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scenark
	2	-		FUU Reported SAR				2+3	Scenanoz 4+5	4+5+6	Scenario4 8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	Scenario11 5+8	30enano12 4+6+9	Scenari 5+6+
	2.4GHz WLAN	2 4GHz WI AN	5GHz WLAN TV1	5GHz WLAN TX2	Bluetooth Tx1	6GHz WLAN TX1		273	475	41010	079	01019	240	374	279	370	475	070	41010	540
Exposure Position	2.4GHZ WLAN Tx1 (S1)	2.4GHZ WLAN TX2 (S2)	SGHZ WLAN TX1 (S1)	SGHZ WLAN 1X2 (S2)	(S1)	(S1)	6GHz WLAN Tx2 (S2)	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Sum
	1g SAR (Wkg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR
ottom Surface 0	0.211	0.369	0.483	0.330	0.017	0.254	0.247	0.580	0.813	0.830	0.501	0.518	0.541	0.852	0.458	0.623	0.730	0.584	0.747	0.6
andor 1																				
endor 1																				
endor 1			1	FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scen
endor 1	2	3	4	5	6	8	9	Scenario1 2+3	Scenario2 4+5	Scenario3 4+5+6	Scenario4 8+9	Scenario5 6+8+9	Scenario6 2+5	Scenario7 3+4	Scenario8 2+9	Scenario9 3+8	Scenario10 4+9	Scenario11 5+8	Scenario12 4+6+9	Scer 5-
endor 1	2.4GHz WLAN Txt (S1)	3 2.4GHz WLAN Tx2 (S2)	4 5GHz WLAN Tx1 (S1)	FCC Reported SAR 5 5GHz WLAN Tx2 (S2)	6 Bluetooth Tx1 (S1)	8 6GHz WLAN Tx1 (S1)	9 6GHz WLAN Tx2 (S2)													
endor 1	2 2.4GHz WLAN		4 5GHz WLAN Tx1	5 5GHz WLAN Tx2	6 Bluetooth Tx1			2+3	4+5	4+5+6	8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	5+8	4+6+9	5

Conclusion 9.4

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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10 INSTRUMENTS LIST

		Equi	pment List		
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1336	Aug/24/2022	Aug/23/2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7509	Mar/25/2022	Mar/24/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar/02/2022	Mar/01/2023
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9579	Sep/23/2022	Sep/22/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/23/2022	Aug/22/2023
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/24/2022	Aug/23/2023
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY52180142	Oct/19/2022	Oct/18/2023
Agilent	Dual-directional coupler	778D	MY52180302	Oct/19/2022	Oct/18/2023
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 Meter	NRX	102034	Jan/11/2023	Jan/10/2024
R&S	Power Sensor	NRP18S	101974	Oct/18/2022	Oct/17/2023
R&S	Power Sensor	NRP6A	104246	Nov/22/2022	Nov/21/2023
SPEAG	Software	DASY 6 V16.0.0.116	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4.152 7	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/27/2022	Sep/26/2023
TECPEL	Digital thermometer	DTM-303A	TP130074	May/13/2022	May/12/2023

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11 UNCERTAINTY BUDGET

A	с	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	8
lsotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	8
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	80
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	80
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	80
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	80
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	80
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	80
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	80
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	ø
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	ø
Liquid permittivity (mea.)	1.05%	N	1	1	0.64	0.43	0.67%	0.45%	м
Liquid Conductivity (mea.)	0.95%	N	1	1	0.6	0.49	0.57%	0.47%	М
Combined standard uncertainty		RSS					11.75%	11.72%	
Expant uncertainty (95% confidence interval), K=2							23.50%	23.45%	

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

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A	с	D		aluation temp	f		h=c * f / e	i=o * g / o	k
	c Tolerance/	Probability	е		1	g	Standard	i=c * g / e Standard	
Source of Uncertainty	Uncertainty	Distributio	Div	Div Value	ci (1g)	ci (10g)	uncertainty	uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	Ν	1	1	1	1	6.00%	6.00%	8
lsotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	~
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	~
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	~
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	~
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	~
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	$^{\infty}$
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	~
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	~
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	~
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	8
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	~
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	~
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	~
Liquid permittivity (mea.)	1.48%	N	1	1	0.64	0.43	0.95%	0.64%	М
Liquid Conductivity (mea.)	1.31%	N	1	1	0.6	0.49	0.79%	0.64%	М
Combined standard uncertainty		RSS					11.48%	11.44%	
Expant uncertainty (95% confidence interval), K=2							22.97%	22.89%	

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

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

а	b	с	d		е	е	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	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√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	1							
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√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	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√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		L		1 1				
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	√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

а	b	с	d		е	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+-dB)	Probability Distributioin	Div.	Div. Value	ci	Std. uncertainty (+-dB)	(vi) Veff
Uncertainty terms dependent on the	he measurement	system	1				1
Probe calibration	0.49	N	1	1	1	0.49	00
Probe correction	0.00	R	√3	1.732	1	0.00	00
Frequency response (BW \leq 1GHz)	0.20	R	√3	1.732	1	0.12	00
Sensor cross coupling	0.00	R	√3	1.732	1	0.00	00
Isotropy	0.50	R	√3	1.732	1	0.29	00
Linearity	0.20	R	√3	1.732	1	0.12	00
Probe scattering	0.00	R	√3	1.732	1	0.00	00
Probe positioning offset	0.30	R	√3	1.732	1	0.17	00
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	00
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	00
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	00
Field impedance dependance	0.00	R	√3	1.732	1	0.00	00
Amplitude and phase drift	0.00	R	√3	1.732	1	0.00	00
Amplitude and phase noise	0.04	R	√3	1.732	1	0.02	00
Measurement area truncation	0.00	R	√3	1.732	1	0.00	00
Data acquisition	0.03	N	1	1	1	0.03	00
Sampling	0.00	R	√3	1	1	0.00	00
Field reconstruction	2.00	R	√3	1.732	1	1.15	00
Forward transformation	0.00	R	√3	1.732	1	0.00	00
Power density scaling	-	R	√3	1.732	1	-	00
Spatial averaging	0.10	R	√3	1.732	1	0.06	00
System detection limit	0.04	R	√3	1.732	1	0.02	00
Uncertainty terms dependent on the	he DUT and envir	onmental facto	ors				
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	00
Modulation response	0.40	R	√3	1.732	1	0.23	00
Integration time	0.00	R	√3	1.732	1	0.00	00
Response time	0.00	R	√3	1.732	1	0.00	00
Device holder influence	0.10	R	√3	1.732	1	0.06	00
DUT alignment	0.00	R	√3	1.732	1	0.00	00
RF ambient conditions	0.04	R	√3	1.732	1	0.02	00
Ambient reflections	0.04	R	√3	1.732	1	0.02	00
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	00
Drift of the DUT	-	R	√3	1.732	1	-	00
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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12 SAR MEASUREMENT RESULTS

Date: 2023/1/6

ID: 001

Report No. :TESA2212000652ES

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Tx1

Communication System: WLAN; Frequency: 2412 MHz;Duty cycle= 1:1.003 Medium parameters used: f = 2412 MHz; σ = 1.744 S/m; ϵ_r = 38.696; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.327 W/kg

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

Reference Value = 12.77 V/m; Power Drift = 0.01 dB

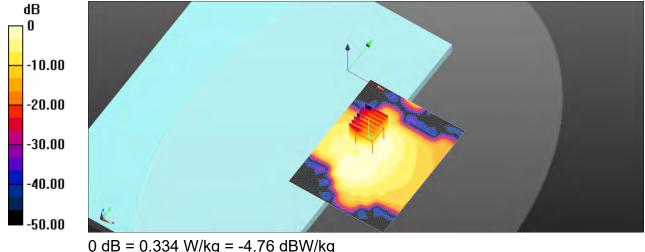
Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.101 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 0.334 W/kg



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ID: 002 Report No. :TESA2212000652ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Tx1

Communication System: Bluetooth; Frequency: 2441 MHz;Duty cycle= 1:1

Medium parameters used: f = 2441 MHz; σ = 1.769 S/m; ϵ r = 38.647; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0277 W/kg

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

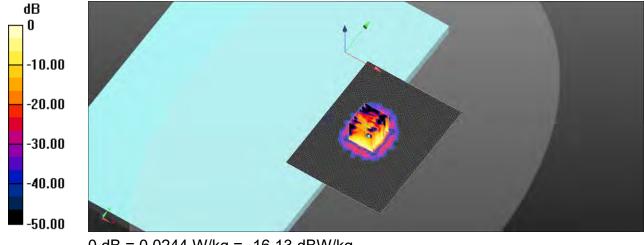
Reference Value = 3.280 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0320 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00692 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.0244 W/kg



0 dB = 0.0244 W/kg = -16.13 dBW/kg

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ID: 003 Report No. : TESA2212000652ES

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx1

Communication System: WLAN; Frequency: 5230 MHz; Duty cycle= 1:1.050

Medium parameters used: f = 5230 MHz; σ = 4.648 S/m; ϵ_r = 35.625; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.389 W/kg

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

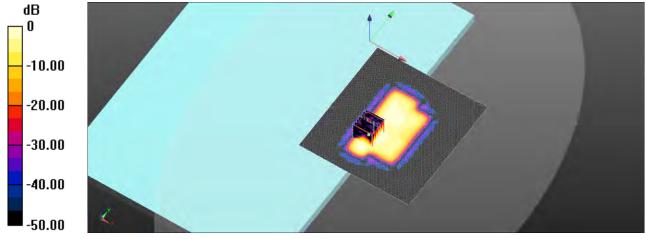
Reference Value = 5.716 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.550 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.049 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.08 dBW/kg

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ID: 004 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx1

Communication System: WLAN; Frequency: 5270 MHz;Duty cycle= 1:1.050 Medium parameters used: f = 5270 MHz; σ = 4.69 S/m; ϵ_r = 35.56; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.406 W/kg

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

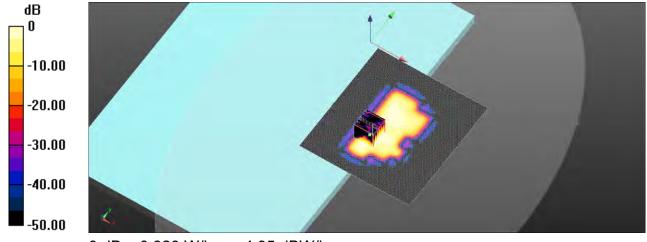
Reference Value = 5.824 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.320 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

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ID: 005 Report No. :TESA2212000652ES

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx1

Communication System: WLAN; Frequency: 5690 MHz;Duty cycle= 1:1.095

Medium parameters used: f = 5690 MHz; σ = 5.111 S/m; ϵ_r = 35.038; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.02, 5.02, 5.02); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.375 W/kg

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

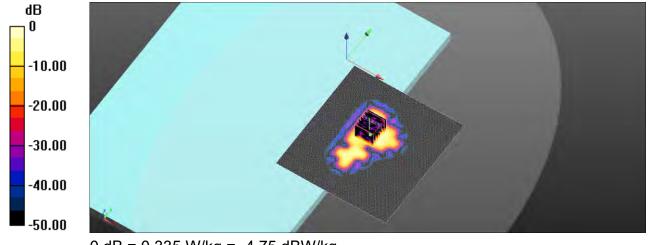
Reference Value = 4.915 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.335 W/kg



0 dB = 0.335 W/kg = -4.75 dBW/kg

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ID: 006 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.095

Medium parameters used: f = 5775 MHz; σ = 5.197 S/m; ϵ_r = 34.975; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.855 W/kg

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

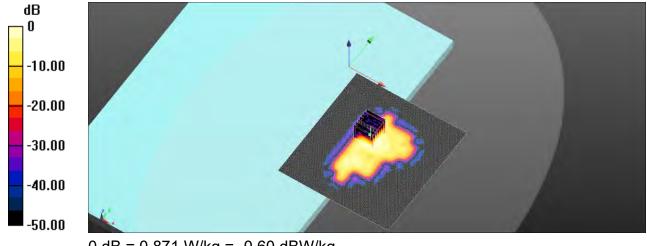
Reference Value = 8.526 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.130 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 0.871 W/kg



0 dB = 0.871 W/kg = -0.60 dBW/kg

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ID: 007 Report No. :TESA2212000652ES

WLAN 802.11ac(80M) 5.9G_Body_Bottom Surface_CH 171_0mm_Tx1

Communication System: WLAN; Frequency: 5855 MHz;Duty cycle= 1:1.095

Medium parameters used: f = 5855 MHz; σ = 5.281 S/m; ϵ _r = 34.878; ρ = 1000 kg/m³ Phantom section: Flat Section

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Warning: Probe out of calibration range. Maximum value of SAR (interpolated) = 0.900 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 7.902 V/m; Power Drift = 0.08 dB

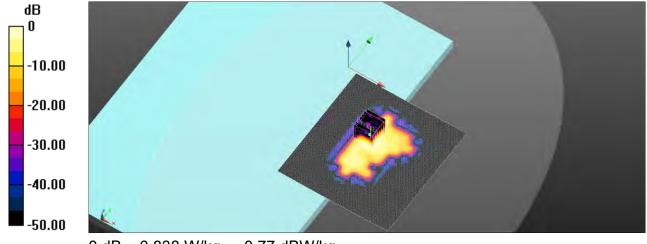
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.126 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 0.838 W/kg



0 dB = 0.838 W/kg = -0.77 dBW/kg

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ID: 008 Report No. :TESA2212000652ES

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Tx2

Communication System: WLAN; Frequency: 2412 MHz;Duty cycle= 1:1.003

Medium parameters used: f = 2412 MHz; σ = 1.744 S/m; ϵ_r = 38.696; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 0.450 W/kg

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

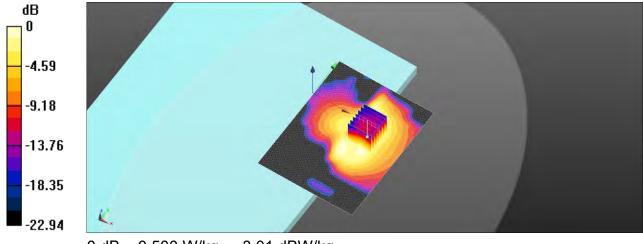
Reference Value = 1.590 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.500 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

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ID: 009 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx2

Communication System: WLAN; Frequency: 5230 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5230 MHz; σ = 4.668 S/m; ϵ_r = 35.601; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x161x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.758 W/kg

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

Reference Value = 7.742 V/m; Power Drift = 0.10 dB

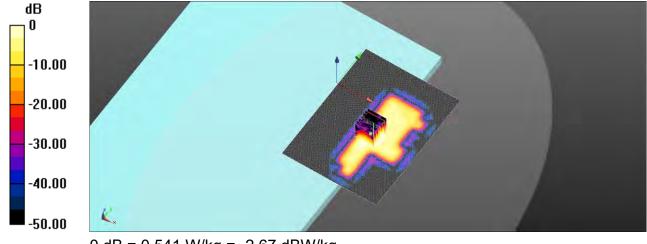
Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

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ID: 010 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx2

Communication System: WLAN; Frequency: 5270 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5270 MHz; σ = 4.69 S/m; ϵ_r = 35.56; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x161x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.775 W/kg

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

Reference Value = 7.322 V/m; Power Drift = 0.17 dB

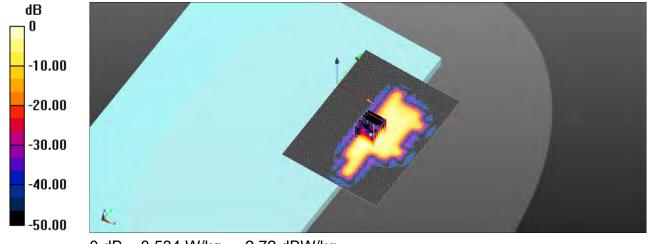
Peak SAR (extrapolated) = 0.915 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.092 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.534 W/kg



0 dB = 0.534 W/kg = -2.72 dBW/kg

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ID: 011 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.095

Medium parameters used: f = 5690 MHz; σ = 5.111 S/m; ϵ_r = 35.038; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.02, 5.02, 5.02); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x161x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.629 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 10.06 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 2.02 W/kg SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.096 W/kgSmallest distance from peaks to all points 3 dB below = 8.2 mm Ratio of SAR at M2 to SAR at M1 = 52.1% Maximum value of SAR (measured) = 0.589 W/kg Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 10.06 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.544 W/kg SAR(1 q) = 0.135 W/kq; SAR(10 q) = 0.041 W/kqSmallest distance from peaks to all points 3 dB below = 8 mm Ratio of SAR at M2 to SAR at M1 = 49.5% Maximum value of SAR (measured) = 0.289 W/kg

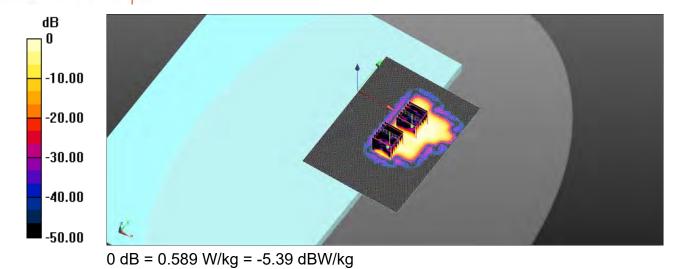
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Report No.: TESA2212000652ES Page: 70 of 133



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ID: 012 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx2 Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.095 Medium parameters used: f = 5775 MHz; σ = 5.197 S/m; ϵ_r = 34.975; ρ = 1000 kg/m³ Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336: Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x161x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.637 W/kg

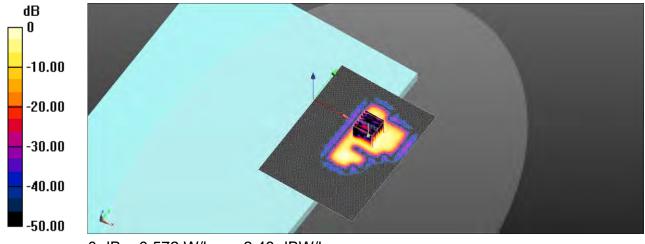
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.406 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 51.1% Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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ID: 013 Report No. :TESA2212000652ES

WLAN 802.11ac(80M) 5.9G_Body_Bottom Surface_CH 171_0mm_Tx2

Communication System: WLAN; Frequency: 5855 MHz;Duty cycle= 1:1.095

Medium parameters used: f = 5855 MHz; σ = 5.281 S/m; ϵ_r = 34.878; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x161x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.719 W/kg

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

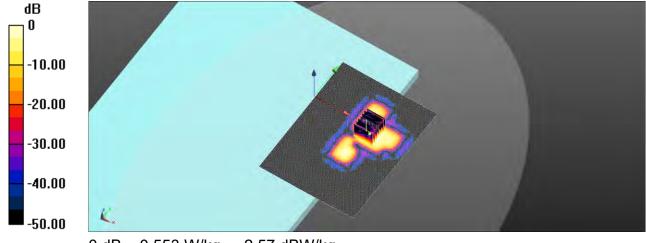
Reference Value = 8.976 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg = -2.57 dBW/kg

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.

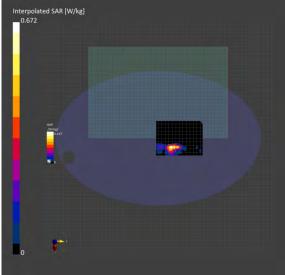
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_0mm_Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distanc	e [mm]	Conversion Factor	TSL Co	nductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00		5.8	5.429		34.442
Hardware Setup						
Phantom		Probe, Cali	bration Date		DAE, Calibration	Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - S	SN7642, 2022-03-02		DAE4 Sn1665, 20)22-02-28
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	
Sensor Surface [mm]				3.0		1.4
Measurement Res	sults					
					Area Scan	Zoom Scar
Date				2	2023-01-10	2023-01-10
psSAR1g [W/kg]					0.150	0.155
psSAR8g [W/kg]					0.055	0.056
psSAR10g [W/kg]					0.048	0.049
psPDab (4.0cm2, sq) [W/r	m2]					1.13
Power Drift [dB]					-0.15	-0.17
M2/M1 [%]						59.1
Dist 3dB Peak [mm]						6.2



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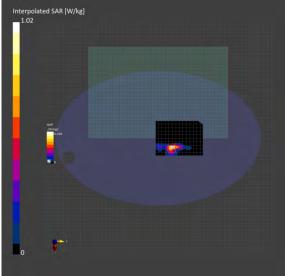
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ID: 015 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_0mm_Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

	Position, Test Distance Bottom Surface, 0.00		- o		nductivity [S/m]	TSL Permittivity
Phantom ELI V5.0 (20deg probe tilt) - 114 Scans Setup Grid Extents [mm] Grid Steps [mm]			5.8	5.614		34.268
ELI V5.0 (20deg probe tilt) - 114 Scans Setup Grid Extents [mm] Grid Steps [mm]				1		
Scans Setup Grid Extents [mm] Grid Steps [mm]	Pi	robe, Calib	oration Date		DAE, Calibration	Date
Grid Extents [mm] Grid Steps [mm]	41 E	X3DV4 - S	N7642, 2022-03-02		DAE4 Sn1665, 2	022-02-28
Grid Steps [mm]						
Grid Steps [mm]			Area	Scan		Zoom Scar
			102.0 x	136.0		22.0 x 22.0 x 22.0
Sensor Surface [mm]			8.5	x 8.5		3.4 x 3.4 x 1.4
				3.0		1.4
Measurement Result	ts					
					Area Scan	Zoom Scar
Date				2	2023-01-10	2023-01-10
psSAR1g [W/kg]					0.221	0.230
psSAR8g [W/kg]					0.082	0.084
psSAR10g [W/kg]					0.072	0.073
psPDab (4.0cm2, sq) [W/m2]						1.69
Power Drift [dB]					-0.07	0.08
M2/M1 [%]						53.4
Dist 3dB Peak [mm]						



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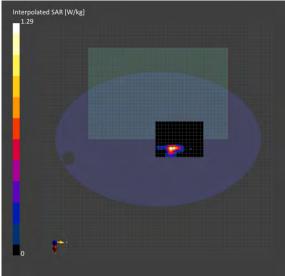
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_0mm_Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distand	ce [mm]	Conversion Factor	TSL Conducti	vity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00)	5.8	5.986		33.819
Hardware Setup						
Phantom		Probe, Cali	bration Date	DAE	, Calibration	Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - \$	SN7642, 2022-03-02	DAE	4 Sn1665, 20	022-02-28
Scans Setup						
			Area	Scan		Zoom Scar
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	
Sensor Surface [mm]				3.0		1.4
Measurement Re	sults					
				Area	Scan	Zoom Scar
Date				2023-0	1-10	2023-01-10
psSAR1g [W/kg]				C).247	0.250
psSAR8g [W/kg]				C	0.089	0.082
psSAR10g [W/kg]				C	0.079	0.070
psPDab (4.0cm2, sq) [W/i	m2]					1.65
Power Drift [dB]					0.14	-0.14
M2/M1 [%]						55.4
Dist 3dB Peak [mm]						3.4



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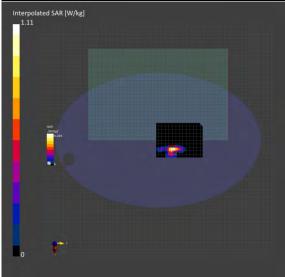
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_0mm_Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distanc	e [mm]	Conversion Factor	TSL Conducti	vity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00		5.8	6.169		33.667	
Hardware Setup							
Phantom		Probe, Cali	bration Date	DAE	, Calibration	Date	
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - 8	SN7642, 2022-03-02	DAE	4 Sn1665, 20	022-02-28	
Scans Setup							
			Area	Scan		Zoom Scan	
Grid Extents [mm]			102.0 x ²	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 Res	sults						
				Area	Scan	Zoom Scar	
Date				2023-0	1-10	2023-01-10	
psSAR1g [W/kg]				C	.209	0.221	
psSAR8g [W/kg]				C	.073	0.077	
psSAR10g [W/kg]				C	.064	0.066	
psPDab (4.0cm2, sq) [W/r	m2]					1.53	
Power Drift [dB]				-	0.13	0.02	
M2/M1 [%]						54.0	
Dist 3dB Peak [mm]						5.4	



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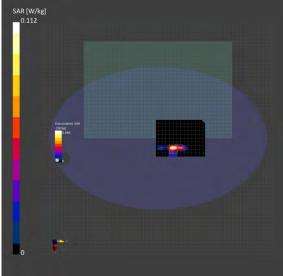
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 183 (6865.0 MHz)_0mm_Tx1 Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	[mm] C	onversion Factor	TSL Cor	nductivity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00	5.	.8	6.394		33.439	
Hardware Setup				N			
Phantom	obe, Calibratio	n Date		DAE, Calibration	Date		
ELI V5.0 (20deg probe tilt) - 1141 EX	(3DV4 - SN764	12, 2022-03-02		DAE4 Sn1665, 20)22-02-28	
Scans Setup							
			Area	Scan		Zoom Scan	
Grid Extents [mm]			102.0 x 1	36.0		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 Res	sults						
				/	Area Scan	Zoom Scar	
Date				2	023-01-11	2023-01-11	
psSAR1g [W/kg]			0.122			0.131	
psSAR8g [W/kg]					0.042	0.043	
psSAR10g [W/kg]					0.036	0.037	
psPDab (4.0cm2, sq) [W/r	m2]					0.866	
Power Drift [dB]					-0.15	0.14	
M2/M1 [%]						53.0	
Dist 3dB Peak [mm]						5.8	



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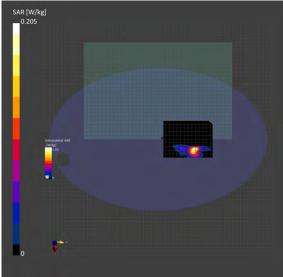
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	e [mm]	Conversion Factor	TSL Cond	uctivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00		5.8	5.429		34.442
Hardware Setup						
Phantom		Probe, Cali	bration Date	D	AE, Calibration	Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - 8	SN7642, 2022-03-02	D	AE4 Sn1665, 20	022-02-28
Scans Setup						
			Area	Scan		Zoom Scar
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 Res	sults					
				Are	ea Scan	Zoom Scar
Date				202	3-01-10	2023-01-10
psSAR1g [W/kg]					0.235	0.243
psSAR8g [W/kg]					0.089	0.091
psSAR10g [W/kg]					0.078	0.078
psPDab (4.0cm2, sq) [W/r	m2]					1.82
Power Drift [dB]					-0.12	0.18
M2/M1 [%]						55.3
Dist 3dB Peak [mm]						8.2



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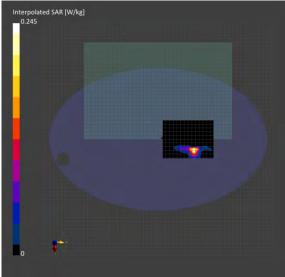
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ID: 020 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Flat, HSL Bottom Surface, 0.00 5.8 5.614 34.268 Hardware Setup Probe, Calibration Date DAE, Calibration Date Phantom Probe, Calibration Date DAE, Calibration Date ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom S Grid Extents [mm] 102.0 x 136.0 22.0 x 22.0 x 2 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.062 0.0 psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0	Phantom Section, TSL	Position, Test Distance	[mm]	Conversion Factor	TSL Condu	uctivity [S/m]	TSL Permittivity
Hardware Setup Probe, Calibration Date DAE, Calibration Date ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom S Grid Extents [mm] 102.0 x 136.0 22.0 x 22.0 x 22 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR1g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 (12.0 x)			[]				
ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom S Grid Extents [mm] Area Scan 22.0 x 22.0 x 2 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.4 x 3.4 x Measurement Results Area Scan Zoom S Date 0.172 0.002 psSAR1g [W/kg] 0.172 0.062 0.062 psSAR10g [W/kg] 0.062 0.062 0.062 psSAR10g [W/kg] 0.062 0.062 0.062 0.062 psSAR10g [W/kg] 0.062<		1					
Scans Setup Area Scan Zoom S Grid Extents [mm] 102.0 x 136.0 22.0 x 22.0 x 2 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.06 Power Drift [dB] 0.16 0.06 0.				oration Date	D	AE, Calibration	Date
Area Scan Zoom S Grid Extents [mm] 102.0 x 136.0 22.0 x 22.0 x 2 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.06 Power Drift [dB] 0.16 0.06	ELI V5.0 (20deg probe tilt) - 1141 E	X3DV4 - S	N7642, 2022-03-02	D	AE4 Sn1665, 20)22-02-28
Grid Extents [mm] 102.0 x 136.0 22.0 x 22.0 x 2 Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.	Scans Setup						
Grid Steps [mm] 8.5 x 8.5 3.4 x 3.4 x Sensor Surface [mm] 3.0 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.062 Power Drift [dB] 0.16 0.06				Area	Scan		Zoom Scar
Sensor Surface [mm] 3.0 Measurement Results Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0 Power Drift [dB] 0.16 0	Grid Extents [mm]			102.0 x 1	36.0		22.0 x 22.0 x 22.0
Measurement Results Date Area Scan Zoom S psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.	Grid Steps [mm]			8.5 x 8.5			3.4 x 3.4 x 1.4
Area Scan Zoom S Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0. Power Drift [dB] 0.16 0.	Sensor Surface [mm]			3.0			1.4
Date 2023-01-10 2023-07 psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0. Power Drift [dB] 0.16 0.	Measurement Res	sults					
psSAR1g [W/kg] 0.172 0. psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0. Power Drift [dB] 0.16 0.					Are	ea Scan	Zoom Scar
psSAR8g [W/kg] 0.062 0. psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0. Power Drift [dB] 0.16 0. M2/M1 [%] 0.55 0.	Date				202	3-01-10	2023-01-10
psSAR10g [W/kg] 0.055 0. psPDab (4.0cm2, sq) [W/m2] 0.16 0.055 Power Drift [dB] 0.16 0.16 M2/M1 [%] 0.16 0.16	psSAR1g [W/kg]					0.172	0.181
psPDab (4.0cm2, sq) [W/m2] Power Drift [dB] 0.16 0 M2/M1 [%]	psSAR8g [W/kg]			0.062		0.062	0.066
Power Drift [dB] 0.16 0 M2/M1 [%] 6 6	psSAR10g [W/kg]					0.055	0.056
M2/M1 [%]	psPDab (4.0cm2, sq) [W/r	m2]					1.3 ⁻
	Power Drift [dB]					0.16	0.14
Dist 3dB Peak [mm]	M2/M1 [%]						53.8
	Dist 3dB Peak [mm]						6.2



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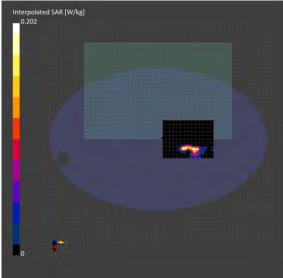
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ID: 021 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure conditi			1			
Phantom Section, TSL	Position, Test Distance	e [mm]	Conversion Factor	TSL Condu	ctivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00		5.8	5.986		33.819
Hardware Setup						
Phantom	F	Probe, Calil	bration Date	DA	E, Calibration	Date
ELI V5.0 (20deg probe tilt) - 1141 E	EX3DV4 - S	SN7642, 2022-03-02	DA	E4 Sn1665, 20)22-02-28
Scans Setup						
			Area	Scan		Zoom Scar
Grid Extents [mm]			102.0 x ²	136.0		22.0 x 22.0 x 22.0
Grid Steps [mm]			8.5	x 8.5	3.4 x 3.4	
Sensor Surface [mm]			3.0			1.4
Measurement Res	sults					
				Area	a Scan	Zoom Scar
Date				2023	-01-10	2023-01-10
psSAR1g [W/kg]					0.143	0.148
psSAR8g [W/kg]				0.051		0.055
psSAR10g [W/kg]					0.045	0.048
psPDab (4.0cm2, sq) [W/r	m2]					1.10
Power Drift [dB]					0.14	-0.10
M2/M1 [%]						55.1
Dist 3dB Peak [mm]						6.9



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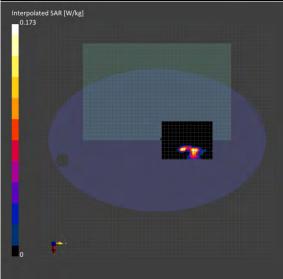
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Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	e [mm]	Conversion Factor	TSL Conductivi	ity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00		5.8	6.169		33.667	
Hardware Setup							
Phantom		Probe, Cali	bration Date	DAE,	Calibration	Date	
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - 8	SN7642, 2022-03-02	DAE4	Sn1665, 2	022-02-28	
Scans Setup							
			Area	Scan		Zoom Scar	
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 Re	sults						
				Area So	can	Zoom Scar	
Date				2023-01	-10	2023-01-10	
psSAR1g [W/kg]				0.1	126	0.131	
psSAR8g [W/kg]				0.0	047	0.048	
psSAR10g [W/kg]				0.0	041	0.042	
psPDab (4.0cm2, sq) [W/r	m2]					0.957	
Power Drift [dB]				0	.12	0.17	
M2/M1 [%]						55.8	
Dist 3dB Peak [mm]						5.4	



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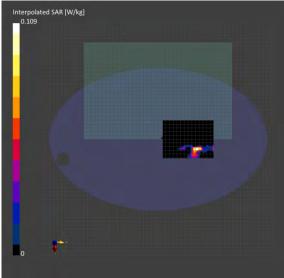
f (886-2) 2298-0488



Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [m	m] Conversion F	actor TSI	Conductivity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00	5.7	6.4	83	33.409	
Hardware Setup						
Phantom	Prob	e, Calibration Date		DAE, Calibration	n Date	
ELI V5.0 (20deg probe tilt) - 1141 EX3	OV4 - SN7642, 2022-03	-02	DAE4 Sn1665,	2022-02-28	
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 Rea	sults					
				Area Scan	Zoom Scar	
Date				2023-01-11	2023-01-11	
psSAR1g [W/kg]				0.080	0.089	
psSAR8g [W/kg]				0.028	0.033	
psSAR10g [W/kg]				0.025	0.029	
psPDab (4.0cm2, sq) [W/r	m2]				0.661	
Power Drift [dB]				-0.15	-0.10	
M2/M1 [%]					54.4	
Dist 3dB Peak [mm]					5.2	



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ID: 024 Report No. :TESA2212000652ES

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Tx1

Communication System: WLAN; Frequency: 2412 MHz;Duty cycle= 1:1.003

Medium parameters used: f = 2412 MHz; σ = 1.744 S/m; ϵ r = 38.696; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 0.338 W/kg

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

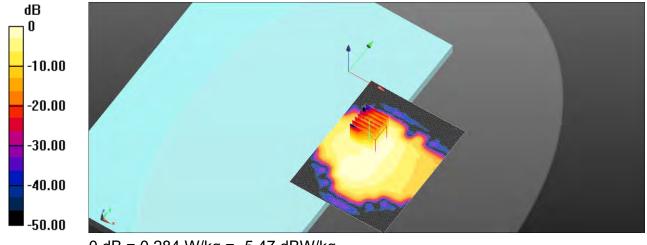
Reference Value = 12.42 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.086 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

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ID: 025 Report No. : TESA2212000652ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Tx1

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1

Medium parameters used: f = 2441 MHz; σ = 1.769 S/m; ϵ_r = 38.647; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 0.0239 W/kg

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

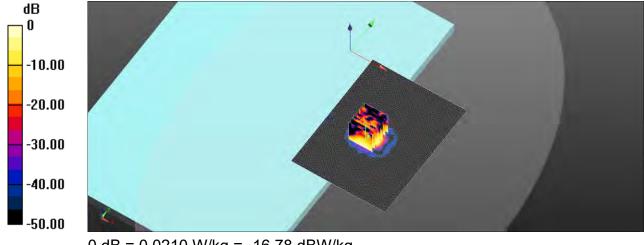
Reference Value = 2.948 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0300 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00493 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 0.0210 W/kg



0 dB = 0.0210 W/kg = -16.78 dBW/kg

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ID: 026 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx1

Communication System: WLAN; Frequency: 5230 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5230 MHz; σ = 4.648 S/m; ϵ_r = 35.625; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.249 W/kg

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

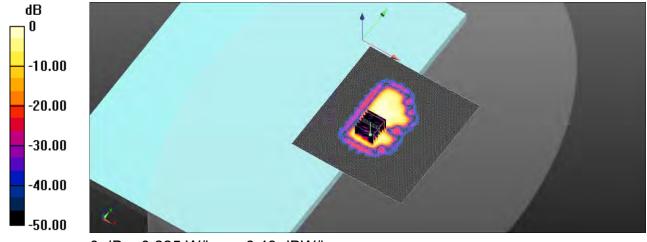
Reference Value = 4.709 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.225 W/kg



0 dB = 0.225 W/kg = -6.48 dBW/kg

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ID: 027 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx1

Communication System: WLAN; Frequency: 5270 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5270 MHz; σ = 4.69 S/m; ϵ_r = 35.56; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.575 W/kg

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

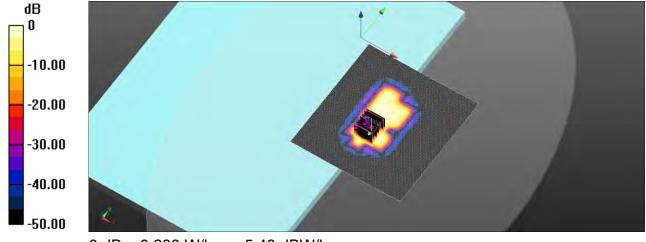
Reference Value = 5.908 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.047 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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ID: 028 Report No. :TESA2212000652ES

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Tx1

Communication System: WLAN; Frequency: 5690 MHz;Duty cycle= 1:1.095

Medium parameters used: f = 5690 MHz; σ = 5.111 S/m; ϵ_r = 35.038; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.02, 5.02, 5.02); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.740 W/kg

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

Reference Value = 7.484 V/m; Power Drift = 0.16 dB

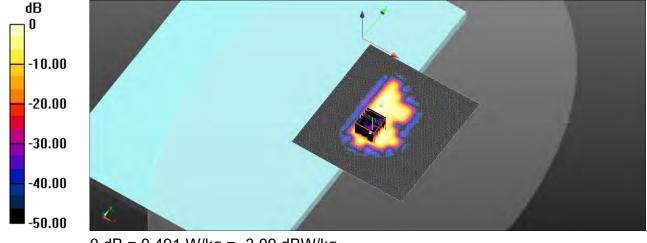
Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg = -3.09 dBW/kg

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ID: 029 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.8G Body Bottom Surface CH 155 0mm Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.095

Medium parameters used: f = 5775 MHz; σ = 5.197 S/m; ϵ_r = 34.975; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.872 W/kg

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

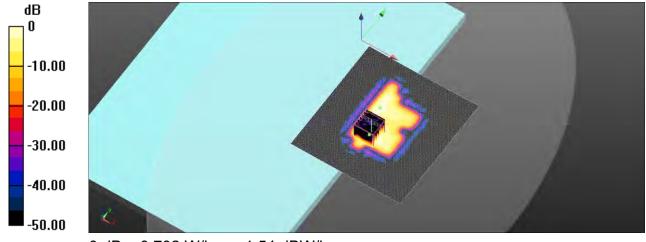
Reference Value = 9.574 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.116 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 0.702 W/kg



0 dB = 0.702 W/kg = -1.54 dBW/kg

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ID: 030 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.9G Body Bottom Surface CH 171 0mm Tx1

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.095

Medium parameters used: f = 5855 MHz; σ = 5.281 S/m; ϵ_r = 34.878; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.958 W/kg

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

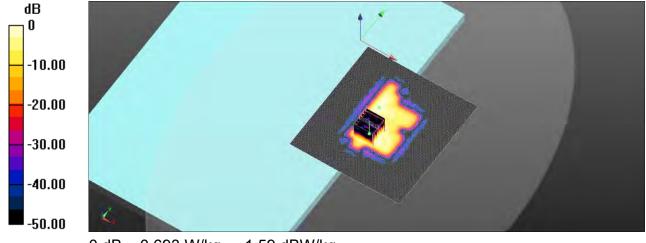
Reference Value = 9.753 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 0.693 W/kg



0 dB = 0.693 W/kg = -1.59 dBW/kg

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ID: 031 Report No. : TESA2212000652ES

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Tx2

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.003

Medium parameters used: f = 2412 MHz; σ = 1.744 S/m; ϵ_r = 38.696; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 0.385 W/kg

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

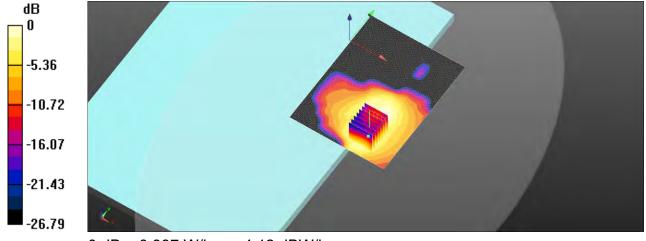
Reference Value = 10.89 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.508 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.145 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.387 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg

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ID: 032 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Tx2

Communication System: WLAN; Frequency: 5230 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5230 MHz; σ = 4.668 S/m; ϵ_r = 35.601; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.784 W/kg

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

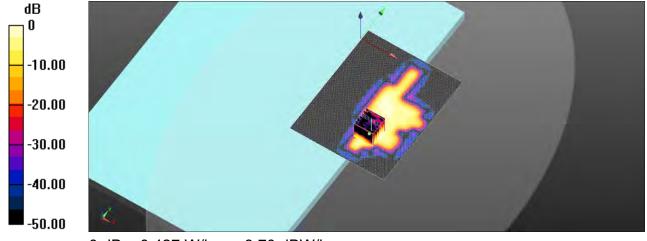
Reference Value = 5.379 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.067 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 0.427 W/kg



0 dB = 0.427 W/kg = -3.70 dBW/kg

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ID: 033 Report No. :TESA2212000652ES

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Tx2

Communication System: WLAN; Frequency: 5270 MHz;Duty cycle= 1:1.050

Medium parameters used: f = 5270 MHz; σ = 4.69 S/m; ϵ r = 35.56; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.892 W/kg

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

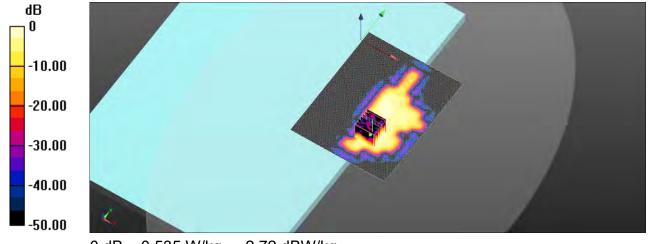
Reference Value = 6.326 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.088 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.535 W/kg



0 dB = 0.535 W/kg = -2.72 dBW/kg

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ID: 034 Report No. : TESA2212000652ES

WLAN 802.11ac(80M) 5.6G Body Bottom Surface CH 138 0mm Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.095

Medium parameters used: f = 5690 MHz; σ = 5.111 S/m; ϵ_r = 35.038; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.02, 5.02, 5.02); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 1.36 W/kg

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

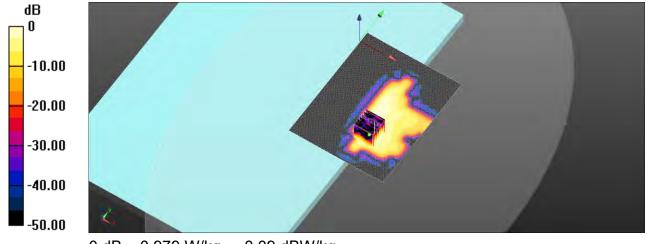
Reference Value = 8.540 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.165 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 0.979 W/kg



0 dB = 0.979 W/kg = -0.09 dBW/kg

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ID: 035 Report No. :TESA2212000652ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Tx2

Communication System: WLAN; Frequency: 5775 MHz;Duty cycle= 1:1.095

Medium parameters used: f = 5775 MHz; σ = 5.197 S/m; ϵ r = 34.975; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x151x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 1.68 W/kg

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

Reference Value = 9.153 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.205 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Date: 2023/1/9

Report No. : TESA2212000652ES WLAN 802.11ac(80M) 5.9G Body Bottom Surface CH 171 0mm Tx2 Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.095 Medium parameters used: f = 5855 MHz; σ = 5.281 S/m; ϵ_r = 34.878; ρ = 1000 kg/m³ Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

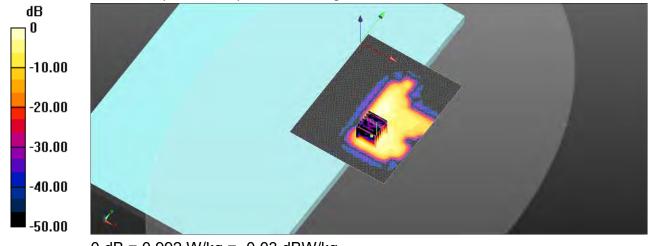
Area Scan (121x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

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

Reference Value = 8.070 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 2.21 W/kg SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.161 W/kg Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg = -0.03 dBW/kg

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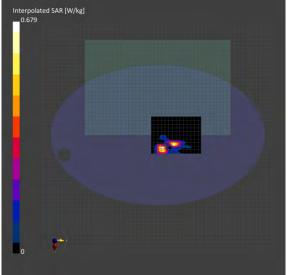


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

						1	
Phantom Section, TSL	Position, Test Distance [I	mm] Cor	nversion Factor	TSL Conductivity	y [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00	5.8		5.429		34.442	
Hardware Setup							
Phantom	be, Calibration	Date	DAE, C	alibration	Date		
ELI V5.0 (20deg probe til	t) - 1141 EX3	3DV4 - SN7642	2, 2022-03-02	DAE4 S	n1665, 2	022-02-28	
Scans Setup							
			Area S	Scan		Zoom Scar	
Grid Extents [mm]			102.0 x 1	36.0		22.0 x 22.0 x 22.0	
Grid Steps [mm]		8.5 x 8.5		x 8.5	3.4 x 3.4 x		
Sensor Surface [mm]			3.0			1.4	
Measurement Re	sults						
				Area Sca	ın	Zoom Scar	
Date				2023-01-1	0	2023-01-10	
psSAR1g [W/kg]				0.14	7	0.161	
psSAR8g [W/kg]				0.057		0.063	
psSAR10g [W/kg]				0.05	50	0.055	
psPDab (4.0cm2, sq) [W/	/m2]					1.26	
Power Drift [dB]				0.1	2	-0.16	
M2/M1 [%]						58.4	
Dist 3dB Peak [mm]						7.1	



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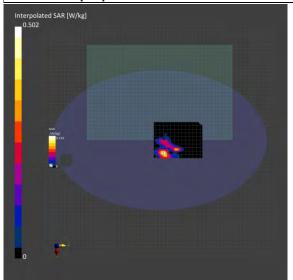


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz) 0mm Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure contait						
Phantom Section, TSL	Position, Test Distance	[mm]	Conversion Factor	TSL Cond	ductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00		5.8	5.614		34.268
Hardware Setup						
Phantom	Pro	obe, Calibr	ration Date	[DAE, Calibration	Date
ELI V5.0 (20deg probe til	t) - 1141 EX	(3DV4 - SN	N7642, 2022-03-02	C	DAE4 Sn1665, 20	022-02-28
Scans Setup						
			Area S	Scan		Zoom Scar
Grid Extents [mm]			102.0 x 1	36.0		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 Re	sults					
				Ar	rea Scan	Zoom Scar
Date				202	23-01-10	2023-01-10
psSAR1g [W/kg]					0.097	0.113
psSAR8g [W/kg]					0.037	0.044
psSAR10g [W/kg]					0.032	0.038
psPDab (4.0cm2, sq) [W/	/m2]					0.872
Power Drift [dB]					0.12	0.09
M2/M1 [%]						56.9
Dist 3dB Peak [mm]						6.3



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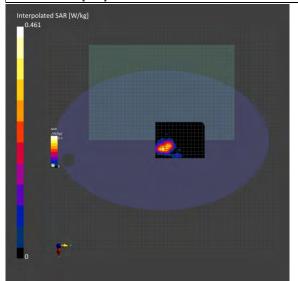
Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz) 0mm Tx1

Ambient temperature: 22.5; Liquid temperature: 22.5 **Exposure Conditions**

Phantom Section, TSL Position, Test Distance [mm] Conversion Factor TSL Conductivity [S/m] TSL Permittivity Flat, HSL Bottom Surface, 0.00 5.8 5.986 33.819 Hardware Setup Phantom Probe, Calibration Date DAE, Calibration Date ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom Scan 102.0 x 136.0 Grid Extents [mm] 22.0 x 22.0 x 22.0 8.5 x 8.5 Grid Steps [mm] 3.4 x 3.4 x 1.4 Sensor Surface [mm] 3.0 1.4 Measurement Results Area Scan Zoom Scan Date 2023-01-10 2023-01-10 psSAR1g [W/kg] 0.075 0.087 0 0 0 4 0 0 0 7

psSAR8g [W/kg]	0.031	0.037
psSAR10g [W/kg]	0.028	0.032
psPDab (4.0cm2, sq) [W/m2]		0.737
Power Drift [dB]	0.17	-0.15
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		6.7



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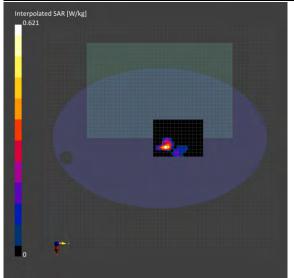


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx1 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure contait				-		
Phantom Section, TSL	Position, Test Distance [mm] Conve	rsion Factor	TSL Conductivity	[S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.8		6.169		33.667
Hardware Setup						
Phantom	Pro	be, Calibration Da	ite	DAE, Ca	libration	Date
ELI V5.0 (20deg probe til	t) - 1141 EX3	3DV4 - SN7642, 2	022-03-02	DAE4 SI	n1665, 20	022-02-28
Scans Setup				·		
			Area So	can		Zoom Scan
Grid Extents [mm]			102.0 x 13	6.0		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]	Sensor Surface [mm]			3.0		1.4
Measurement Re	sults					
				Area Scar	n	Zoom Scar
Date		2023-01-10		D	2023-01-10	
psSAR1g [W/kg]			0.114		4	0.127
psSAR8g [W/kg]		0.042		2	0.051	
psSAR10g [W/kg]			0.037		7	0.045
psPDab (4.0cm2, sq) [W/	/m2]					1.02
Power Drift [dB]				0.10)	-0.16
M2/M1 [%]						56.0
Dist 3dB Peak [mm]						6.9



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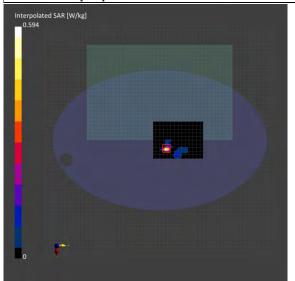


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 183 (6865.0 MHz) 0mm Tx1 Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL Position, Test Distance [mm] Conversion Factor TSL Conductivity [S/m] TSL Permittivity Flat, HSL Bottom Surface, 0.00 5.8 6.394 33.439 Hardware Setup Phantom Probe, Calibration Date DAE, Calibration Date ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom Scan 102.0 x 136.0 Grid Extents [mm] 22.0 x 22.0 x 22.0 8.5 x 8.5 Grid Steps [mm] 3.4 x 3.4 x 1.4 Sensor Surface [mm] 3.0 1.4 Measurement Results Area Scan Zoom Scan Date 2023-01-11 2023-01-11 0.099 psSAR1g [W/kg] 0.114 psSAR8g [W/kg] 0.027 0.037 psSAR10g [W/kg] 0.023 0.032 psPDab (4.0cm2, sq) [W/m2] 0.750 Power Drift [dB] 0.16 -0.15 M2/M1 [%] 53.5 Dist 3dB Peak [mm] 6.1



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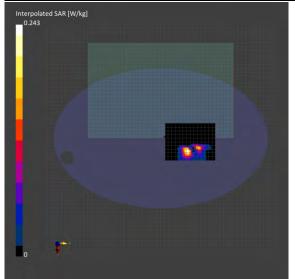


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure condit						
Phantom Section, TSL	Position, Test Distance [I	mm] Convers	ion Factor	TSL Conductivity	[S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.8		5.429		34.442
Hardware Setup						
Phantom	Prol	be, Calibration Date)	DAE, Cal	DAE, Calibration Date	
ELI V5.0 (20deg probe til	t) - 1141 EX3	3DV4 - SN7642, 202	22-03-02	DAE4 Sn	1665, 20	22-02-28
Scans Setup						
			Area Sc	an		Zoom Scan
Grid Extents [mm]			102.0 x 136	6.0		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]	Sensor Surface [mm]			3.0		1.4
Measurement Re	sults					
				Area Scan	I	Zoom Scar
Date		2023-01-10)	2023-01-10	
psSAR1g [W/kg]				0.177		0.185
psSAR8g [W/kg]			0.070)	0.071
psSAR10g [W/kg]			0.062			0.061
psPDab (4.0cm2, sq) [W/	'm2]					1.43
Power Drift [dB]				0.17		0.11
M2/M1 [%]						58.1
Dist 3dB Peak [mm]						6.8



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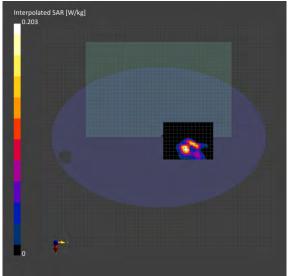


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz) 0mm Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure conditi	0113				T
Phantom Section, TSL	Position, Test Distance [m	nm] Conversio	n Factor	TSL Conductivity [[S/m] TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5.8	Ę	5.796	34.044
Hardware Setup					
Phantom	Prob	e, Calibration Date		DAE, Cali	ibration Date
ELI V5.0 (20deg probe tilt)	- 1141 EX3	DV4 - SN7642, 2022	-03-02	DAE4 Sn	1665, 2022-02-28
Scans Setup					
			Area Sca	an	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]	ensor Surface [mm]		3.0		1.4
Measurement Res	sults				
				Area Scan	Zoom Scan
Date				2023-01-10	2023-01-10
psSAR1g [W/kg]				0.156	0.170
psSAR8g [W/kg]			0.061	0.064	
psSAR10g [W/kg]		0.053		0.055	
psPDab (4.0cm2, sq) [W/n	n2]				1.28
Power Drift [dB]				0.16	-0.10
M2/M1 [%]					55.8
Dist 3dB Peak [mm]					6.8



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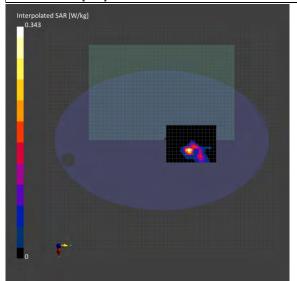
Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz) 0mm Tx2

Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL	Position, Test Distance	e [mm]	Conversion Factor	TSL Cor	nductivity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00		5.8	5.986		33.819	
Hardware Setup							
Phantom	Pr	robe, Calibr	ation Date		DAE, Calibration	Date	
ELI V5.0 (20deg probe til	t) - 1141 EX	X3DV4 - SN	7642, 2022-03-02		DAE4 Sn1665, 2	022-02-28	
Scans Setup							
			Area S	Scan		Zoom Scar	
Grid Extents [mm]			102.0 x 1	36.0		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				
Measurement Re	sults						
				A	area Scan	Zoom Scar	
Date			2023-01-10		23-01-10	2023-01-10	
psSAR1g [W/kg]					0.252	0.264	
psSAR8g [W/kg]				0.091		0.097	
psSAR10g [W/kg]			0.079		0.079	0.084	
psPDab (4.0cm2, sq) [W/	/m2]					1.94	
Power Drift [dB]					0.12	0.17	
M2/M1 [%]						51.8	
Dist 3dB Peak [mm]						6.8	



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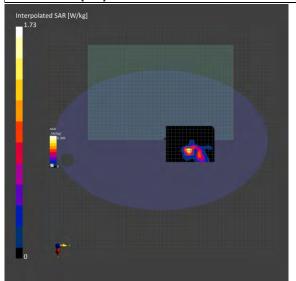


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx2 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Phantom Section, TSL Position, Test Distance [mm] Conversion Factor TSL Conductivity [S/m] TSL Permittivity Flat, HSL Bottom Surface, 0.00 5.8 6.169 33.667 Hardware Setup Phantom Probe, Calibration Date DAE, Calibration Date ELI V5.0 (20deg probe tilt) - 1141 EX3DV4 - SN7642, 2022-03-02 DAE4 Sn1665, 2022-02-28 Scans Setup Area Scan Zoom Scan 102.0 x 136.0 Grid Extents [mm] 22.0 x 22.0 x 22.0 8.5 x 8.5 Grid Steps [mm] 3.4 x 3.4 x 1.4 Sensor Surface [mm] 3.0 1.4 Measurement Results Area Scan Zoom Scan Date 2023-01-10 2023-01-10 0.339 psSAR1g [W/kg] 0.352 psSAR8g [W/kg] 0.117 0.124 0.102 psSAR10g [W/kg] 0.107 psPDab (4.0cm2, sq) [W/m2] 2.48 Power Drift [dB] 0.16 -0.14 M2/M1 [%] 51.1 Dist 3dB Peak [mm] 7.3



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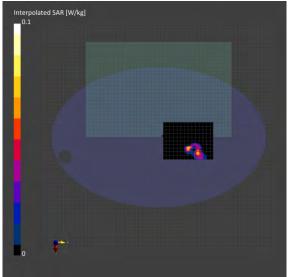


Report No. : TESA2212000652ES

Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)_0mm_Tx2 Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [[mm]	Conversion Factor	TSL Co	nductivity [S/m]	TSL Permittivity	
Flat, HSL	Bottom Surface, 0.00		5.7	6.483		33.409	
Hardware Setup	·					÷	
Phantom	Pro	be, Calibrat	ion Date		DAE, Calibration	AE, Calibration Date	
ELI V5.0 (20deg probe til	t) - 1141 EX	3DV4 - SN7	642, 2022-03-02		DAE4 Sn1665, 20	022-02-28	
Scans Setup							
			Area S	Scan		Zoom Scan	
Grid Extents [mm]			102.0 x 1	36.0		22.0 x 22.0 x 22.0	
Grid Steps [mm]	Grid Steps [mm]		8.5 x 8.5		3.4 x 3.4 x 1.4		
Sensor Surface [mm]	Sensor Surface [mm]			3.0		1.4	
Measurement Re	sults						
					Area Scan	Zoom Scar	
Date				2	023-01-11	2023-01-11	
psSAR1g [W/kg]			0.061		0.061	0.077	
psSAR8g [W/kg]			0.019		0.024		
psSAR10g [W/kg]			0.017		0.017	0.021	
psPDab (4.0cm2, sq) [W/	/m2]					0.488	
Power Drift [dB]					0.17	0.18	
M2/M1 [%]						46.0	
Dist 3dB Peak [mm]						5.2	



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-0.15



13 PD MEASUREMENT RESULTS

ID: 047

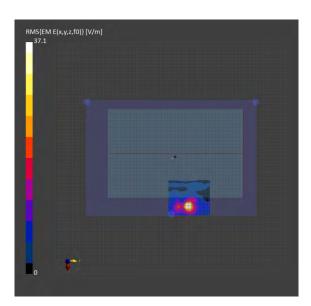
Power Drift [dB]

Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx1 **Exposure Conditions**

Phantom Section Position, Test Distance [mm] Conversion Factor 5G Bottom Surface, 2.00 1.0 Hardware Setup Medium Phantom Probe. Calibration Date DAE, Calibration Date mmWave - 1076 Air -EUmmWV4 - SN9579_F1-55GHz, 2022-09-23 DAE4 Sn1665, 2022-02-28 Scans Setup Scan Type 5G Scan Grid Extents [mm] 100.0 x 120.0 Grid Steps [lambda] 0.0625 x 0.0625 Sensor Surface [mm] 2.0 Measurement Results Scan Type 5G Scan Date 2023-01-13 Avg. Area [cm²] 4.00 psPDn+ [W/m²] 1.14 psPDtot+ [W/m²] 1.19 psPDmod+ [W/m²] 1.65 E_{max} [V/m] 37.2



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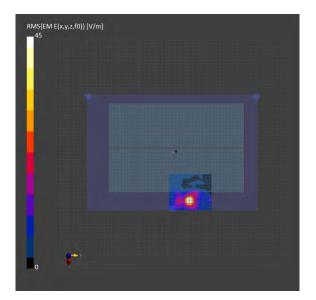
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz) 0mm Tx1

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor		
5G		Bottom Surface, 2.00		1.0		
Hardware Set	up					
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date		
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28		
Scans Setup						
Scan Type				5G Scan		
Grid Extents [mm]				100.0 x 120.0		
Grid Steps [lambda]				0.0625 x 0.0625		
Sensor Surface [mn	n]			2.0		
Measurement	t Results					
Scan Type				5G Scan		
Date				2023-01-13		
Avg. Area [cm ²]				4.00		
psPDn+ [W/m ²]			1			
psPDtot+ [W/m ²]			2.			
psPDmod+ [W/m²]				2.64		
E _{max} [V/m]				45.0		
Power Drift [dB]				0.13		



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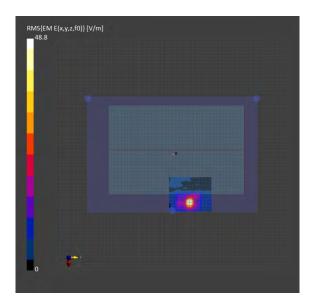


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz) 0mm Tx1 Exposure Conditions

Exposure Co	nuntions		
Phantom Section		Position, Test Distance [mm]	Conversion Factor
5G		Bottom Surface, 2.00	1.0
Hardware Set	tup		
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-0	D9-23 DAE4 Sn1665, 2022-02-28
Scans Setup			
Scan Type			5G Scan
Grid Extents [mm]			100.0 x 120.0
Grid Steps [lambda]			0.0625 x 0.0625
Sensor Surface [mm]			2.0
Measurement	t Results	i	
Scan Type			5G Scan
Date			2023-01-13
Avg. Area [cm²]			4.00
psPDn+ [W/m²]			1.74
psPDtot+ [W/m ²]			1.92
psPDmod+ [W/m ²]			2.58
E _{max} [V/m]			48.8
Power Drift [dB]			0.17



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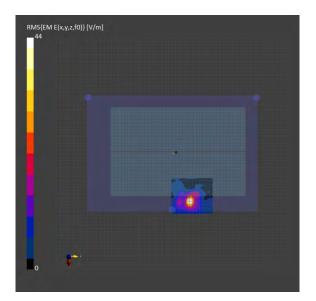


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx1 **Exposure Conditions**

Exposure Co	nations				
Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]]		0.0625 x 0.0625		
Sensor Surface [mm]				2.0	
Measuremen	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]				1.62	
psPDtot+ [W/m²]				1.75	
psPDmod+ [W/m²]				2.19	
E _{max} [V/m]				44.0	
Power Drift [dB]				-0.19	



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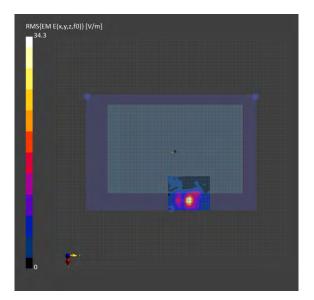
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ID: 051 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 183 (6865.0 MHz) 0mm Tx1 Exposure Conditions

Phantom Section		Position, Test Distance [mm]	Position, Test Distance [mm]		
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]		0.0625 x 0.0625		
Sensor Surface [mr	n]			2.0	
Measuremen	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]				0.989	
psPDtot+ [W/m ²]				1.	
psPDmod+ [W/m²]				1.33	
E _{max} [V/m]				34.3	
Power Drift [dB]				-0.18	



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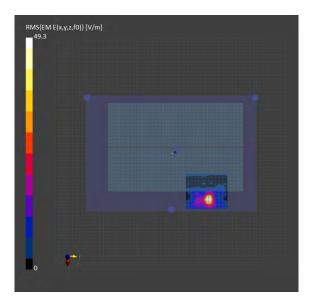
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx2

Exposure Conditions

Phantom Section		Position, Test Distance [mm]	Conversion Factor		
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]				0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm ²]				4.00	
psPDn+ [W/m²]			1.		
psPDtot+ [W/m ²]			1.		
psPDmod+ [W/m²]				2.60	
E _{max} [V/m]				49.3	
Power Drift [dB]				0.18	



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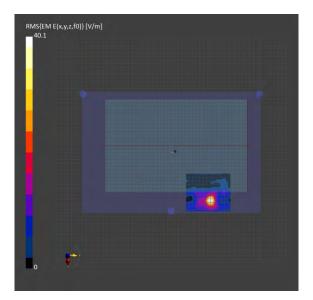
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz) 0mm Tx2

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]]			0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm ²]				4.00	
psPDn+ [W/m²]				1.	
psPDtot+ [W/m ²]			1.		
psPDmod+ [W/m²]				1.72	
E _{max} [V/m]				40.2	
Power Drift [dB]				0.05	



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5G Scan

5G Scan

2.0

4.00

1.41

1.62

2.01

40.7

-0.16



ID: 054

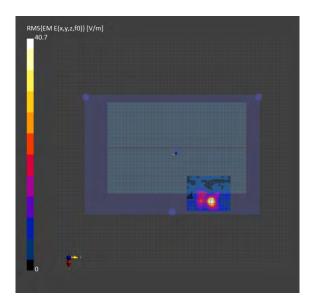
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_0mm_Tx2 **Exposure Conditions**

Phantom Section Position, Test Distance [mm] Conversion Factor 5G Bottom Surface, 2.00 1.0 Hardware Setup Phantom Medium DAE, Calibration Date Probe, Calibration Date EUmmWV4 - SN9579_F1-55GHz, 2022-09-23 mmWave - 1076 Air -DAE4 Sn1665, 2022-02-28 Scans Setup Scan Type Grid Extents [mm] 100.0 x 120.0 0.0625 x 0.0625 Grid Steps [lambda] Sensor Surface [mm] Measurement Results Scan Type 2023-01-13 Date Avg. Area [cm²] psPDn+ [W/m²] psPDtot+ [W/m²] psPDmod+ [W/m²] E_{max} [V/m]

Power Drift [dB]



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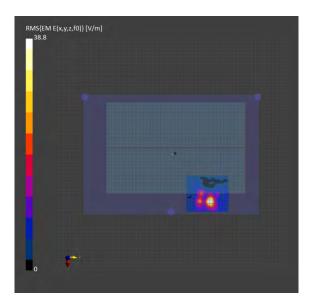


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx2 Exposure Conditions

Exposure Co	nunuons				
Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]			0.0625 x 0.0625		
Sensor Surface [mr	n]			2.0	
Measuremen	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]				1.12	
psPDtot+ [W/m ²]				1.20	
psPDmod+ [W/m²]				1.60	
E _{max} [V/m]				38.8	
Power Drift [dB]				0.08	



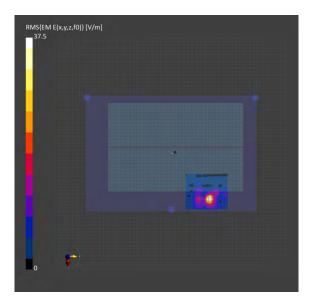
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ID: 056 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz) 0mm Tx2 Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-0	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]		0.0625 x 0.0625		
Sensor Surface [mr	n]			2.0	
Measuremen	t Results				
Scan Type				5G Scan	
Date				2023-01-13	
Avg. Area [cm²]				4.00	
psPDn+ [W/m ²]			1		
psPDtot+ [W/m²]				1.22	
psPDmod+ [W/m²]				1.51	
E _{max} [V/m]				37.5	
Power Drift [dB]				-0.12	



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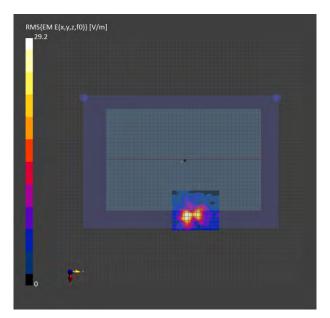
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx1

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]]			0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-12	
Avg. Area [cm ²]				4.00	
psPDn+ [W/m²]				0.55	
psPDtot+ [W/m ²]				0.6	
psPDmod+ [W/m²]				0.969	
E _{max} [V/m]				29.2	
Power Drift [dB]				-0.14	



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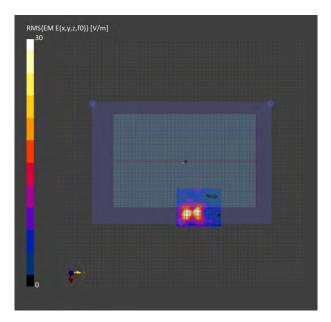
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz) 0mm Tx1

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 202	2-09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]]			0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-12	
Avg. Area [cm ²]				4.00	
psPDn+ [W/m²]				0.8	
psPDtot+ [W/m ²]				0.9	
psPDmod+ [W/m²]				1.08	
E _{max} [V/m]				30.0	
Power Drift [dB]				-0.14	



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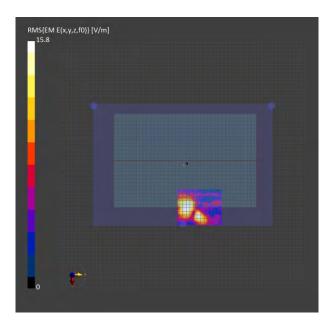


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz) 0mm Tx1 **Exposure Conditions**

Exposure Co	naitions				
Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-0	9-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]			0.0625 x 0.0625		
Sensor Surface [mn	Sensor Surface [mm]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-12	
Avg. Area [cm²]				4.00	
psPDn+ [W/m ²]				0.384	
psPDtot+ [W/m ²]				0.401	
psPDmod+ [W/m²]				0.421	
E _{max} [V/m]				15.8	
Power Drift [dB]				-0.18	



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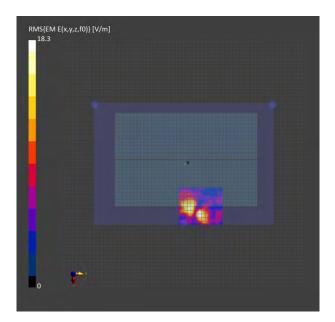


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx1 **Exposure Conditions**

Phantom Section Position, Test Distance [mm] Conversion Factor 5G Bottom Surface, 2.00 1.0 Hardware Setup Phantom Medium Probe, Calibration Date DAE, Calibration Date EUmmWV4 - SN9579_F1-55GHz, 2022-09-23 mmWave - 1076 Air -DAE4 Sn1665, 2022-02-28 Scans Setup Scan Type 5G Scan Grid Extents [mm] 100.0 x 120.0 Grid Steps [lambda] 0.0625 x 0.0625 Sensor Surface [mm] 2.0 Measurement Results Scan Type 5G Scan 2023-01-12 Date 4.00 Avg. Area [cm²] psPDn+ [W/m²] 0.429 psPDtot+ [W/m²] 0.477 psPDmod+ [W/m²] 0.487 E_{max} [V/m] 18.3 Power Drift [dB] 0.13



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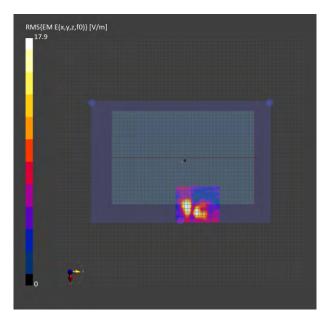
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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ID: 061 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 183 (6865.0 MHz) 0mm Tx1 Exposure Conditions

Phantom Section		Position, Test Distance [mm]	Conversion Factor	Conversion Factor	
5G		Bottom Surface, 2.00	1.0		
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Dat	e	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-09-	23 DAE4 Sn1665, 2022	-02-28	
Scans Setup					
Scan Type				5G Scar	
Grid Extents [mm]			100.0 x 120.0		
Grid Steps [lambda]			0.0625 x 0.0625		
Sensor Surface [mr	n]			2.0	
Measuremen	t Results				
Scan Type				5G Scar	
Date				2023-01-12	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]			0.4		
psPDtot+ [W/m ²]			0.4		
psPDmod+ [W/m²]				0.456	
E _{max} [V/m]				17.9	
Power Drift [dB]				0.12	



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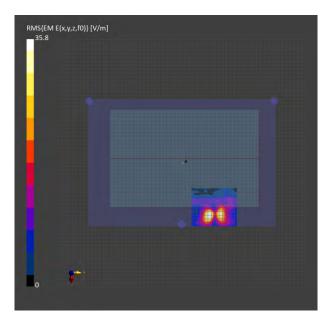
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz) 0mm Tx2

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G	5G Bottom Surface, 2.00			1.0	
Hardware Set	up				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]				0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-12	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]			1.5		
psPDtot+ [W/m ²]			1.		
psPDmod+ [W/m²]				1.71	
E _{max} [V/m]				35.8	
Power Drift [dB]				0.01	



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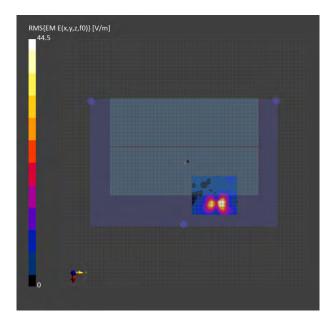
Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz) 0mm Tx2

Exposure Conditions

Phantom Section		Position, Test Distance [mm]		Conversion Factor	
5G		Bottom Surface, 2.00		1.0	
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-	-09-23	DAE4 Sn1665, 2022-02-28	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]				100.0 x 120.0	
Grid Steps [lambda]				0.0625 x 0.0625	
Sensor Surface [mn	n]			2.0	
Measurement	t Results				
Scan Type				5G Scan	
Date				2023-01-12	
Avg. Area [cm²]				4.00	
psPDn+ [W/m²]				1.73	
psPDtot+ [W/m ²]				2.	
psPDmod+ [W/m²]				2.41	
E _{max} [V/m]				44.5	
Power Drift [dB]				-0.15	



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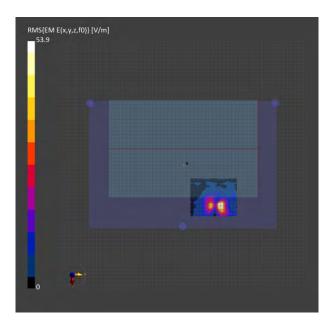


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz) 0mm Tx2 **Exposure Conditions**

Exposure Co	nations					
Phantom Section		Position, Test Distance [mm]		Conversion Factor		
5G Bottom Surface, 2.00				1.0		
Hardware Set	tup					
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date		
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-0	9-23	DAE4 Sn1665, 2022-02-28		
Scans Setup						
Scan Type				5G Scan		
Grid Extents [mm]				100.0 x 120.0		
Grid Steps [lambda]			0.0625 x 0.0625			
Sensor Surface [mm]				2.0		
Measuremen	t Results					
Scan Type				5G Scan		
Date				2023-01-12		
Avg. Area [cm ²]				4.00		
psPDn+ [W/m ²]				1.97		
psPDtot+ [W/m ²]				2.44		
psPDmod+ [W/m ²]				3.14		
E _{max} [V/m]				53.9		
Power Drift [dB]				-0.13		



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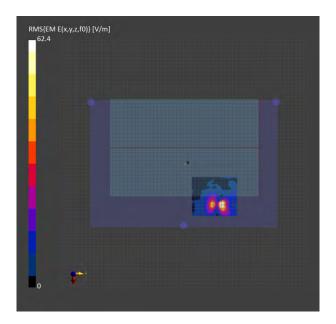


Report No. : TESA2212000652ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz) 0mm Tx2 **Exposure Conditions**

Phantom Section Position, Test Distance [mm] Conversion Factor 5G Bottom Surface, 2.00 1.0 Hardware Setup Phantom Medium DAE, Calibration Date Probe, Calibration Date EUmmWV4 - SN9579_F1-55GHz, 2022-09-23 mmWave - 1076 Air -DAE4 Sn1665, 2022-02-28 Scans Setup Scan Type 5G Scan Grid Extents [mm] 100.0 x 120.0 0.0625 x 0.0625 Grid Steps [lambda] Sensor Surface [mm] 2.0 Measurement Results Scan Type 5G Scan 2023-01-12 Date 4.00 Avg. Area [cm²] psPDn+ [W/m²] 2.70 psPDtot+ [W/m²] 3.43 psPDmod+ [W/m²] 4.37 E_{max} [V/m] 62.4 Power Drift [dB] 0.05



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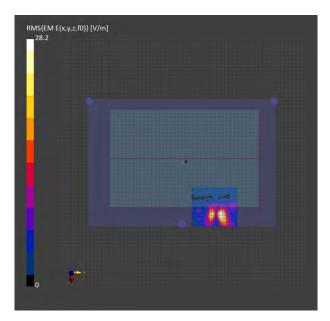
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ID: 066 Report No. : TESA2212000652ES Measurement Report for Device, Bottom Surface, U-NII-8, IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz) 0mm Tx2 Exposure Conditions

Phantom Section Position, Test Distance [mn		Position, Test Distance [mm]		Conversion Factor		
5G		Bottom Surface, 2.00		1.0		
Hardware Set	tup					
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date		
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-09	-23	DAE4 Sn1665, 2022-02-28		
Scans Setup						
Scan Type				5G Scan		
Grid Extents [mm]			100.0 x 120.0			
Grid Steps [lambda]			0.0625 x 0.0625			
Sensor Surface [mm]				2.0		
Measuremen	t Results					
Scan Type				5G Scan		
Date				2023-01-12		
Avg. Area [cm²]				4.00		
psPDn+ [W/m ²]				0.801		
psPDtot+ [W/m ²]				0.869		
psPDmod+ [W/m²]				1.01		
E _{max} [V/m]				28.2		
Power Drift [dB]				0.15		



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14 SAR SYSTEM CHECK RESULTS

Date: 2023/1/6

Report No. : TESA2212000652ES

Dipole 2450 MHz SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1 Medium parameters used: f = 2450 MHz; σ = 1.777 S/m; ϵ_r = 38.62; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(8.14, 8.14, 8.14); Calibrated: 2022/3/25 •
- Sensor-Surface: 2mm (Mechanical Surface Detection) •
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 19.9 W/kg

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

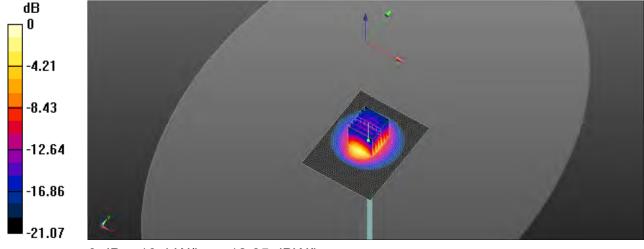
Reference Value = 108.9 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 26.0 W/kg

SAR(1 q) = 13.1 W/kq; SAR(10 q) = 6.24 W/kq

Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.65 dBW/kg

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Date: 2023/1/7

Report No. :TESA2212000652ES Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz;Duty cycle= 1:1 Medium parameters used: f = 5250 MHz; σ = 4.668 S/m; ϵ_r = 35.601; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.58, 5.58, 5.58); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 17.1 W/kg

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

Reference Value = 77.59 V/m; Power Drift = 0.05 dB

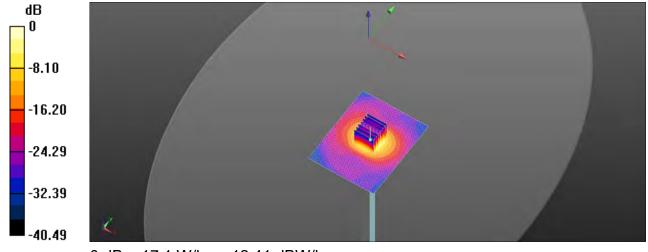
Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.12%

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.41 dBW/kg

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Date: 2023/1/8

Report No. :TESA2212000652ES Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz;Duty cycle= 1:1 Medium parameters used: f = 5600 MHz; σ = 5.024 S/m; ϵ_r = 35.141; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7509; ConvF(5.02, 5.02, 5.02); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 18.5 W/kg

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

Reference Value = 73.74 V/m; Power Drift = 0.07 dB

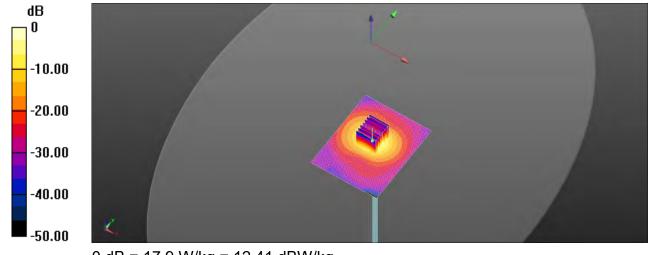
Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 8.74 W/kg; SAR(10 g) = 2.43 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.41 dBW/kg

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Date: 2023/1/9

Report No. : TESA2212000652ES Dipole 5750 MHz_SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1 Medium parameters used: f = 5750 MHz; σ = 5.171 S/m; ϵ_r = 35.001; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

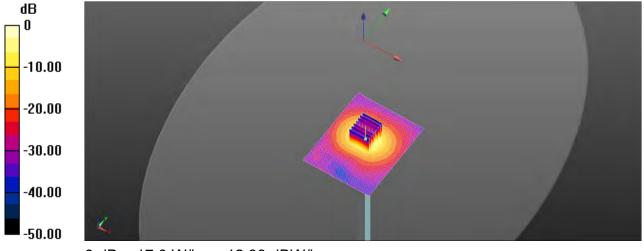
- Probe: EX3DV4 SN7509; ConvF(5.22, 5.22, 5.22); Calibrated: 2022/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2022/8/24
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.4 W/kg

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

Reference Value = 74.24 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 35.5 W/kg SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.27 W/kg Smallest distance from peaks to all points 3 dB below = 7.4 mm Ratio of SAR at M2 to SAR at M1 = 51.8% Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.38 dBW/kg

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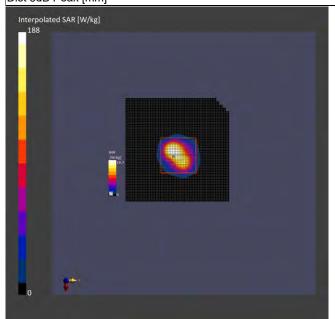
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Report No. : TESA2212000652ES Measurement Report for Device, FRONT, Validation band, CW, Channel 6500 (6500.0 MHz), SN:1006 Ambient temperature: 22.5; Liquid temperature: 22.5

Exposure Conditions

Exposure condit	10113					
Phantom Section, TSL	Position, Test Distance [m	nm]	Conversion Factor	TSL Conductivity [S/	m] TSL Permittivity	
Flat, HSL	FRONT, 0.00		5.8	5.979	33.879	
Hardware Setup						
Phantom P		Probe, Calibration Date		DAE, Calibra	ation Date	
ELI V5.0 (20deg probe tilt) - 1141 EX30		DV4 - SN	17642, 2022-03-02	DAE4 Sn16	DAE4 Sn1665, 2022-02-28	
Scans Setup						
			Area Sca	n	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.			
Measurement Re	sults					
				Area Scan	Zoom Scar	
Date			2023-01-10		2023-01-10	
psSAR1g [W/kg]			28.5		29.1	
psSAR8g [W/kg]			6.17		6.78	
psSAR10g [W/kg]			5.27		5.39	
psPDab (4.0cm2, sq) [W/	'm2]				132	
Power Drift [dB]				-0.01	0.01	
M2/M1 [%]					51.1	
Dist 3dB Peak [mm]					4.8	



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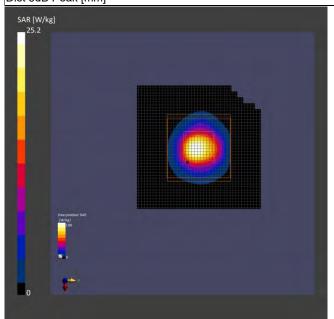
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Report No. : TESA2212000652ES Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz)_SN:1007 Ambient temperature: 22.5; Liquid temperature: 22.6

Exposure Conditions

Exposure condit	10113					
Phantom Section, TSL	Position, Test Distance [n	nm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00		5.7	6.547		33.302
Hardware Setup						
•		obe, Calibration Date		DAE, Calil	DAE, Calibration Date	
ELI V5.0 (20deg probe tilt) - 1141 EX3DV4		DV4 - SM	4 - SN7642, 2022-03-02		DAE4 Sn1665, 2022-02-28	
Scans Setup	·					
			Area Sca	n		Zoom Scan
Grid Extents [mm]			36.0 x 45.	0	28.0 x 28.0	
Grid Steps [mm]			6.0 x 7.	5	3.4 x 3	
Sensor Surface [mm]			3.			1.4
Measurement Re	sults					
				Area Scan		Zoom Scan
Date				2023-01-11		2023-01-11
psSAR1g [W/kg]			26.2			26.9
psSAR8g [W/kg]			5.62			5.71
psSAR10g [W/kg]			4.69			4.76
psPDab (4.0cm2, sq) [W/	'm2]					114
Power Drift [dB]				-0.09		-0.13
M2/M1 [%]						48.3
Dist 3dB Peak [mm]						4.6



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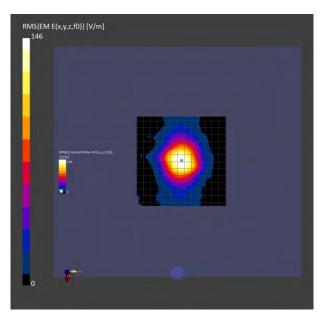
15 PD SYSTEM CHECK RESULTS

Report No. : TESA2212000652ES Measurement Report for Device, FRONT, Validation band,

CW, Channel 10000 (10000.0 MHz), SN:1021

Exposure Conditions

Phantom Section Position, Test Distanc		Position, Test Distance [mm]	Conversion Factor		
5G	FRONT, 10.00		1.0		
Hardware Set	tup				
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date		
mmWave - 1076	Air -	EUmmWV4 - SN9579_F1-55GHz, 2022-09-23	DAE4 Sn1665, 2022-02-28		
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		
Measuremen	t Results				
Scan Type			5G Scan		
Date			2023-01-12		
Avg. Area [cm ²]			1.00		
psPDn+ [W/m²]			52.4		
psPDtot+ [W/m ²]			52.5		
psPDmod+ [W/m²]			52.7		
E _{max} [V/m]			143		
Power Drift [dB]			-0.04		



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Refer to separated files for the following appendixes.

- 16.1 SAR_Appendix A Photographs
- 16.2 SAR Appendix B DAE & Probe Cal. Certificate
- SAR Appendix C Phantom Description & Dipole Cal. Certificate 16.3

- End of report -

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