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RF Exposure report





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

Wireless module installed in Notebook Computer **EUT Description**

acer **Brand Name AX211D2W** Model No. N25Q10 **Host Model Number:**

Acer Incorporated **Applicant**

8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221

Taiwan

IEEE/ANSI C95.1-1992, IEEE 1528-2013 **Standards**

FCC ID HLZAX211D2 Date of EUT Receipt Oct. 16, 2024

Date of Test(s) Nov. 08, 2024 ~ Nov. 17, 2024

Date of Issue Jan. 07, 2025

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Jasper Wang	Approved By / John Yeh
Kimmy Chiou	Jasper Wang	John Teh
		Date: Jan. 07, 2025

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2410000664EN	00	Initial creation of document	Nov. 28, 2024	Kimmy Chiou	
TESA2410000664EN	01	Modify gain	Jan. 07, 2025	Kimmy Chiou	*

N	ote	

١.	The mark "	* " is the	e revised	version	of the i	report due t	to comments	submitted by	the certification

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

IEC TR 63170:2018

IEC 62479:2010

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Description of EUT

EUT Description	Wireless module installed in Notebook Computer						
Brand Name	acer	acer					
Model No.	AX211D2W						
FCC ID	HLZAX211D2						
Host Model Number:	N25Q10						
Duty Cycle	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 Frequency Range, MHz)	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)					
	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	2.4GHz (2400.0 – 2483.5 MHz)					

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Maximum value

Summary of Maximum SAR and Power Density Value						
Mode	Highest SAR 1g	Highest APD	Highest PD			
	(W/kg)	(W/m^2)	(W/m^2)			
Bluetooth(GFSK)	0.15	N/A	N/A			
2.4G WLAN	1.15	N/A	N/A			
5G WLAN	1.19	N/A	N/A			
6G WLAN	1.1	5.91	9.93			

Antenna Information 1.4

Notebook mode

110tobook i	110ac									
Antenna		Main								
Part Number					0203667	75-08193				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.56	2.35	2.63	2.72	1.93	1.89	2.70	2.08	2.76	2.75
Antenna					Α	ux				
Part Number		02036675-08194								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.65	2.27	2.19	2.24	2.17	1.96	2.49	2.53	2.97	2.77

Tablet mode

	_									
Antenna		Main								
Part Number		02036675-08193								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.96	2.75	2.42	2.34	2.93	2.69	2.74	1.79	1.76	2.30
Antenna					Aı	ux				
Part Number		02036675-08194								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.50	1.30	1.46	-0.12	0.41	0.37	2.12	1.23	1.06	0.44

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
	1F, No. 8, Alley 15, Lane	SAR 2			
	120, Sec. 1, NeiHu Road, Neihu District, Taipei City,	SAR 6	TW0029		
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	11493, Taiwan.	SAR 8		TW3702	
	No. 2, Keji 1st Rd., Guishan	SAR 1	TW0000		
	Township, Taoyuan County, 33383, Taiwan	SAR 4	TW0028		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku	SAR 3	TM/0007		
	District, New Taipei City, Taiwan	SAR 7	TW0027		

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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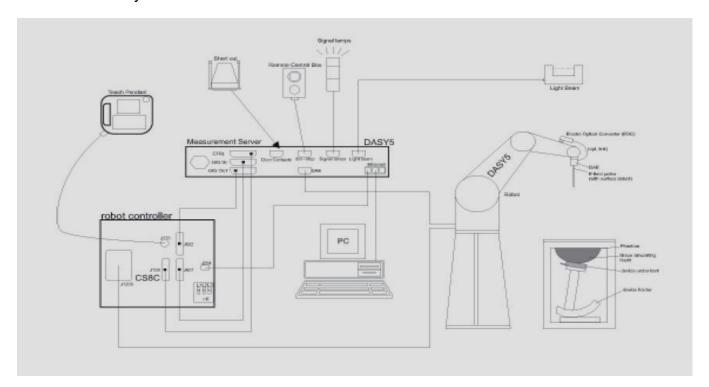


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SAR System

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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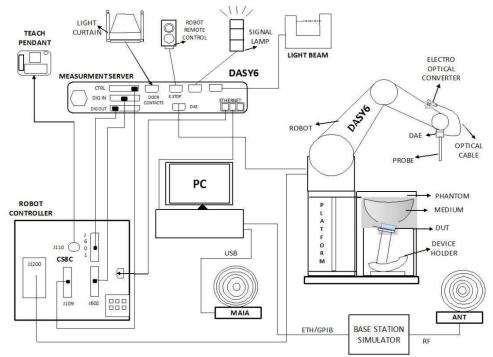
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Block Diagram (DASY6)

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 2450/5250/5600/5750/5850/6500/7000 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 μ W/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM (ELI)

PHANTOW (E	
Model	ELI
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.
Shell	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER

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

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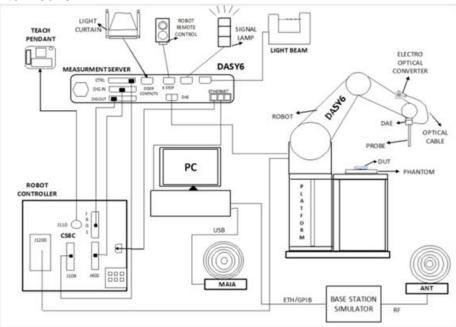


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PD system

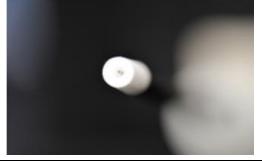
Block Diagram (DASY6)

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



EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe 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.

750 MHz - 110 GHz

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Frequency Range



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Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min <
Bynamic Kange	50 V/m - 3000 V/m)
Danking Description	,
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm)
	Tip diameter: encapsulation 8 mm
	(internal sensor < 1mm)
	Distance from probe tip to dipole centers:
	< 2 mm. Sensor displacement to probe's
	calibration point: < 0.3 mm
Applications	E-field measurements of 5G devices and
	other mm-wave transmitters operating
	above 10GHz in < 2 mm distance from
	device (free-space).Power density, H-field
	and far-field analysis using total field
	reconstruction (cDASY6 5G module
	required)
sensor 1,5mm calibrated	10441104)
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

Tissue Simulating Liquid

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

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Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	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
2402	39.296	1.758	40.227	1.793	2.37%	1.97%	± 5%	Nov. 11, 2024
2412	39.276	1.767	40.215	1.802	2.39%	1.98%	± 5%	Nov. 11, 2024
2437	39.226	1.789	40.197	1.823	2.48%	1.92%	± 5%	Nov. 11, 2024
2441	39.218	1.792	40.192	1.826	2.48%	1.89%	± 5%	Nov. 11, 2024
2450	39.200	1.800	40.181	1.834	2.50%	1.89%	± 5%	Nov. 11, 2024
2462	39.184	1.813	40.167	1.846	2.51%	1.83%	± 5%	Nov. 11, 2024
2480	39.160	1.832	40.146	1.865	2.52%	1.80%	± 5%	Nov. 11, 2024
5190	36.010	4.650	36.588	4.721	1.61%	1.54%	± 5%	Nov. 12, 2024
5230	35.970	4.690	36.540	4.762	1.58%	1.54%	± 5%	Nov. 12, 2024
5250	35.950	4.710	36.516	4.781	1.57%	1.51%	± 5%	Nov. 12, 2024
5270	35.930	4.730	36.492	4.800	1.56%	1.48%	± 5%	Nov. 12, 2024
5290	35.910	4.750	36.468	4.821	1.55%	1.49%	± 5%	Nov. 12, 2024
5310	35.890	4.770	36.444	4.841	1.54%	1.49%	± 5%	Nov. 12, 2024
5530	35.605	4.997	36.180	5.066	1.61%	1.39%	± 5%	Nov. 13, 2024
5570	35.545	5.039	36.132	5.107	1.65%	1.36%	± 5%	Nov. 13, 2024
5600	35.500	5.070	36.096	5.142	1.68%	1.42%	± 5%	Nov. 13, 2024
5610	35.490	5.080	36.084	5.151	1.67%	1.40%	± 5%	Nov. 13, 2024
5690	35.410	5.160	35.988	5.232	1.63%	1.40%	± 5%	Nov. 14, 2024
5750	35.350	5.220	35.916	5.293	1.60%	1.40%	± 5%	Nov. 14, 2024
5775	35.325	5.245	35.886	5.319	1.59%	1.41%	± 5%	Nov. 14, 2024
5815	35.285	5.286	35.838	5.361	1.57%	1.42%	± 5%	Nov. 14, 2024
5835	35.265	5.307	35.814	5.383	1.56%	1.44%	± 5%	Nov. 14, 2024
5850	35.250	5.323	35.796	5.400	1.55%	1.46%	± 5%	Nov. 14, 2024
5855	35.245	5.328	35.790	5.406	1.55%	1.47%	± 5%	Nov. 14, 2024
5875	35.225	5.349	35.766	5.427	1.54%	1.46%	± 5%	Nov. 14, 2024
6025	35.070	5.510	35.507	5.623	1.25%	2.06%	± 5%	Nov. 15, 2024
6185	34.878	5.698	35.315	5.811	1.25%	1.98%	± 5%	Nov. 15, 2024
6345	34.686	5.887	35.123	6.002	1.26%	1.95%	± 5%	Nov. 15, 2024
6500	34.500	6.070	34.937	6.188	1.27%	1.94%	± 5%	Nov. 15, 2024
6505	34.494	6.076	34.931	6.194	1.27%	1.95%	± 5%	Nov. 15, 2024
6665	34.302	6.261	34.739	6.386	1.27%	1.99%	± 5%	Nov. 15, 2024
6825	34.110	6.447	34.547	6.574	1.28%	1.97%	± 5%	Nov. 15, 2024
6985	33.918	6.633	34.355	6.760	1.29%	1.92%	± 5%	Nov. 16, 2024
7000	33.900	6.650	34.337	6.779	1.29%	1.94%	± 5%	Nov. 16, 2024

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3.4 The composition of the tissue simulating liquid:

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

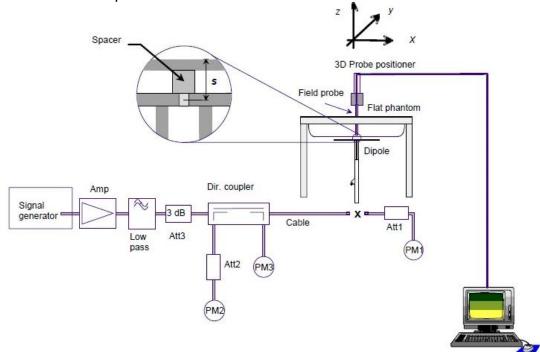
Broad-band head	SPEAG Product	Frequency range (MHz)	Main Ingredients
tissue simulating liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

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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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	52.7	13.3	53.2	0.95	± 10%	Nov.11,2024
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	78.8	8.17	81.7	3.68	± 10%	Nov.12,2024
D5GHzV2	1023	5600	81.3	8.43	84.3	3.69	± 10%	Nov.13,2024
D5GHzV2	1023	5750	78	8.08	80.8	3.59	± 10%	Nov.14,2024
D5GHzV2	1023	5850	78.6	7.95	79.5	1.15	± 10%	Nov.14,2024
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	297	30.6	306	3.03	± 10%	Nov.15,2024
D7GHzV2	1007	7000	286	28.6	286	0.00	± 10%	Nov.16,2024

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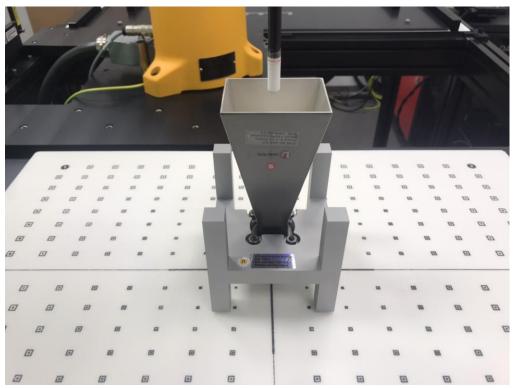
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PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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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.

(1011 12)	Frequency (MHz)	PD Verification Source (MHz)	,	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm^2 (W/m^2)	Target 4cm^2 (W/m^2)	Deviation (dB)	Date
10000	10000	\ /	10000	9616	856	10	93.3	50.7	56.2	-0.45	Nov.17.2024

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5 TEST CONFIGURATIONS

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 \leq 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 ≥ 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 ≥ 1.45 W/kg ($\sim 10\%$ 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 ≤ 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 ≤ 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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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.

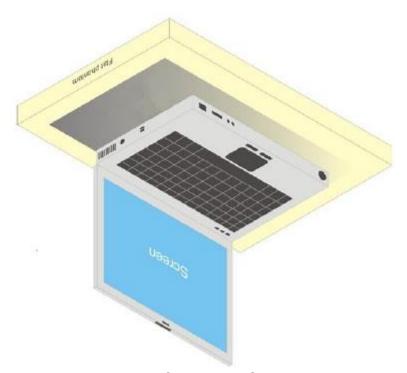


Illustration for Laptop Setup

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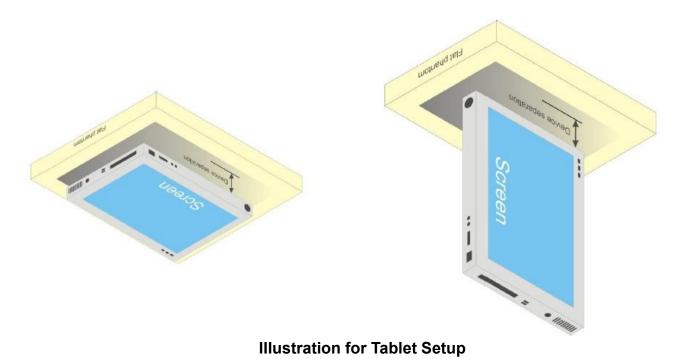
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Tablet mode SAR test position (0mm)

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



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Power verification of device mode

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the device modes verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

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Device mode verification by power measurement

Antenna	Operation mode Lid close	a Lid angle	n/a	n/a	802.11ac(160M) 5.2G_IC	n/a												
	Laptop	10°	20.90 20.97	20.88 20.90	17.97 17.98	19.40 19.50	17.88 18.00	21.00 20.95	15.91 15.84	20.88 20.89	20.90 20.94	21.13 21.19	20.44 20.32	17.38 17.38	13.31 13.49	13.30 13.35	13.41 13.48	13.47 13.45
		0°	n/a	n/a	n/a	n/a	n/a	nía	n/a									
	Lid close	1° 2°	n/a n/a															
		3°	n/a															
		5°	20.86	20.99	n/a 17.88	n/a 19.39	n/a 17.88 17.91	n'a 20.97	n/a 16.00	n/a 20.84	n'a 20.89	n/a 21.13	n/a 20.39	n/a 17.34	n/a 13.42	n/a 13.30	n/a 13.33	n/a 13.44
		6° 7°	20.97 20.97	21.00 20.91	17.93 17.85 17.93	19.50 19.34	17.85	20.82 20.91	15.84 15.93	20.99 20.89	20.90 20.96	21.02 21.11	20.48 20.32	17.42 17.30 17.38	13.33 13.45	13.36 13.41	13.34 13.45	13.38 13.42
		8°	20.85 20.80	20.85 20.98	17.93	19.36 19.48	17.86 17.92	20.89 20.88	15.99 15.84	20.87 20.88	20.98 20.90	21.15 21.16	20.47 20.34	17.38	13.46 13.37	13.48 13.41	13.47 13.34	13.41 13.34
		10°	20.94	20.91	17.93 17.82	19.31	17.96	20.99	15.87	20.94	20.87	21.09	20.48	17.50	13.41	13.48	13.48	13.50
		20°	20.84 20.90	20.91 20.81	17.85	19.39 19.37	17.80 17.98	20.92 20.94	15.84 15.94	20.93 20.82	20.95 20.93	21.02 21.17	20.37 20.43	17.36 17.36	13.47 13.47	13.35 13.48	13.42 13.44	13.30 13.34
		40°	20.84 20.80	20.92 20.99	17.81	19.38 19.40	17.96 17.99	20.91 20.95	15.99 15.93	20.87 20.88	20.86 20.90	21.00 21.08	20.36 20.33	17.44 17.42	13.48 13.44	13.35 13.40	13.50 13.35	13.49 13.35
		60°	20.99	20.95	17.85	19.42	17.90	20.82	15.86	20.97	20.93	21.01	20.38	17.47	13.47	13.49	13.32	13.49
	Laptop	70° 80°	20.98 20.87	20.80 20.81	17.85 17.88	19.33 19.49	17.86 17.83	20.95 20.88	15.95 15.90	20.87 20.92	20.94 20.84	21.02 21.09	20.39 20.50	17.38 17.33	13.47 13.34	13.35 13.47	13.48 13.49	13.31 13.43
		90°	20.83	20.96	17.88	19.41	18.00	20.87	15.89	20.82	20.95	21.13	20.45	17.30	13.50	13.41	13.44	13.50
		100° 110°	20.91 20.97	20.85 21.00	17.98 17.96	19.34 19.43	17.84 17.94	20.85 20.88	15.87 15.88	21.00 20.87	20.95 20.96	21.15 21.16	20.42 20.31	17.37 17.34	13.34 13.45	13.47 13.30	13.48 13.40	13.37 13.37
		120°	20.83 20.97	20.94 20.81	17.98 18.00	19.41 19.38	17.84 17.98	20.94 20.92	15.91 16.00	20.82 21.00	20.80 20.87	21.09 21.06	20.46 20.46	17.37 17.38	13.32 13.30	13.30 13.49	13.36 13.31	13.41
		130° 140° 150°	20.97 21.00 20.93	20.81 20.80 20.97	18.00 17.83 17.92	19.38 19.45 19.43	17.98 17.94 17.94	20.92 20.94 20.88	16.00 15.89 15.88	21.00 20.96 20.96	20.87 20.93 21.00	21.08 21.13 21.05	20.46 20.35 20.35	17.38 17.35 17.50	13.30 13.47 13.35	13.49 13.45 13.38	13.31 13.45 13.38	13.32 13.47 13.49
		160°	20.96	20.98	17.80	19.41	17.92	20.83	15.90	20.97	20.88	21.15	20.33	17.40	13.50	13.48	13.41	13.36
		170° 180°	20.86 20.80	21.00 20.82	17.96 17.98	19.41 19.32	18.00 17.99	20.96 20.91	15.97 15.95	20.85 20.86	20.90 21.00	21.08 21.00	20.39 20.45	17.33 17.30	13.30 13.31	13.41 13.34	13.50 13.32	13.36 13.39
	Tablet	190° 200°	20.99 17.41	20.80 12.48	17.97 12.36	19.30 12.38	17.82 12.32	20.99 15.98	15.88 15.82	20.96 14.86	20.91 14.98	21.15 15.00	20.46 14.96	17.31 14.80	13.33 13.47	13.38 13.31	13.33 13.42	13.49 13.49
	HADRET	195°	20.95	20.91	17.88	19.42	17.81	20.80	15.88	20.81	20.87	21.16	20.37	17.31	13.40	13.31	13.31	13.43
	Laptop	196° 197°	20.81 20.83	20.95 20.85	17.98 17.92	19.36 19.39	17.88 17.89	20.80 20.89	15.80 15.89	20.90 20.90	20.96 20.89	21.19 21.05	20.36 20.36	17.41 17.33	13.50 13.46	13.36 13.48	13.31 13.30	13.40 13.46
		198°	20.80	20.84	17.90	19.42	17.90	20.92	15.91	20.82	20.96		20.37	17.44	13.32	13.47	13.35	
	l	199° 200°	20.90 17.45	20.89 12.43	17.91 12.32	19.41 12.45	17.93 12.32	20.88 15.97	15.84 15.85	20.90 14.93	20.94 14.89	21.16 14.95	20.35 14.90	17.34 15.00	13.30 13.45	13.42 13.40	13.41 13.44	13.41 13.43
	l	201° 202°	17.50 17.30	12.31 12.39	12.44 12.34	12.44 12.44	12.42 12.34	15.94 15.86	15.98 15.85	15.00 15.00	14.89 14.91	14.89 14.95	14.96 14.83	14.91 14.90	13.39 13.35	13.33 13.42	13.40 13.35	13.35 13.48
	1	203° 204°	17.30 17.39	12.44 12.45	12.41 12.49	12.37 12.43	12.42 12.45	15.80 15.81	15.82 15.91	14.91	14.95	15.00	14.88	14.94	13.37	13.42 13.35 13.37	13.35 13.36	13.48 13.33 13.39
	1	205°	17.35	12.43	12.36	12.34	12.39	15.85	15.94	14.87	14.81 14.89 14.87	14.97	14.98 14.92 15.00	14.94	13.34	13.43	13.32	
	1	208° 207°	17.48 17.47	12.38 12.45	12.46 12.48	12.49 12.35	12.38 12.50	15.85 15.83	15.93 15.85	14.91	14.97	14.90 14.93	14.97	14.86 14.91	13.36 13.33	13.45 13.48	13.49 13.39	13.30 13.36
		208° 209°	17.44 17.46	12.43 12.41	12.34 12.47	12.40 12.45	12.48 12.49	15.82 15.90	15.85 15.86	14.90 14.93	14.98 14.99	14.82 14.92	14.93 14.90	14.82 14.85	13.33 13.31	13.32 13.35	13.35 13.48	13.32 13.30
		210°	17.34	12.40	12.38	12.30	12.38	15.84	15.92	15.00	14.82	14.80	14.94	14.88	13.30	13.39	13.36	13.48
		220° 230°	17.40 17.49	12.43 12.32	12.47 12.34	12.42 12.49	12.44 12.30	15.88 15.87	15.81 15.82	14.92 14.88	14.89 14.86	14.88 14.93	14.89 15.00	14.93 14.95	13.30 13.41	13.42 13.41	13.38 13.36	13.47 13.47
	Tablet	240°	17.37	12.41	12.50	12.49	12.50	15.89	15.96	14.85	14.98	14.82	14.94	14.86	13.46	13.36	13.41	13.43
		250° 260°	17.39 17.46	12.33 12.39	12.50 12.42	12.42 12.40	12.30 12.50	15.91 15.91	15.88 15.81	14.95 14.84	14.88 14.99	14.84 14.97	14.96 14.97	14.83 14.98	13.42 13.33	13.47 13.42	13.39 13.47	13.38 13.45
		270°	17.36 17.38	12.41	12.32	12.31 12.43	12.38 12.38	15.91 16.00	15.94 15.97	14.80	14.87	14.90 14.84	14.83	14.98	13.38	13.36	13.36	13.42
		290° 290° 300°	17.38 17.38 17.36	12.30 12.43 12.30	12.48 12.36 12.37	12.34 12.42	12.31	16.00 15.97 15.95	15.97 15.92 15.94	14.82 14.80 14.84	14.92 14.98 15.00	14.90 14.82	15.00 14.93 14.89	14.93 14.95 14.92	13.50 13.33 13.37	13.46 13.33 13.32	13.34 13.50	13.42 13.41
		310°	17.30	12.31	12.34	12.33	12.35 12.30	15.83	15.90	14.86	14.87	14.89	14.93	14.81	13.30	13.43	13.40 13.40	13.37 13.43
Main		320° 330°	17.41 17.43	12.48 12.41	12.41 12.44	12.43 12.31	12.31 12.40	15.85 15.86	15.87 15.89	14.96 14.87	14.96 14.83	14.84 14.98	14.83 14.85	14.84 14.89	13.48 13.47	13.47 13.39	13.30 13.41	13.45 13.33
		340° 350°	17.49 17.41	12.43 12.41	12.31 12.50	12.43 12.34	12.45 12.33	15.86 15.82	16.00 15.81	14.96 14.98	14.82 14.88	14.97 14.89	14.99 14.96	14.82 14.90	13.39 13.42	13.40 13.45	13.38 13.39	13.49 13.39
		380°	17.45	12.36	12.40	12.48	12.35	15.80	15.91	14.87	14.80	14.84	14.87	14.95	13.49	13.39	13.46	13.30
		350° 340°	17.45 17.44	12.45 12.44	12.34 12.46	12.50 12.36	12.34 12.41	15.90 15.97	15.93 15.89	14.95 14.81	14.83 14.89	14.83 14.92	14.82 14.84	14.98 14.95	13.35 13.34	13.41 13.37	13.35 13.34	13.34 13.46
		330"	17.33 17.49	12.35 12.44	12.40 12.35	12.45 12.32	12.34 12.45	15.85 15.92	15.86 15.81	14.97 14.97	14.84 15.00	14.80	14.95 14.91	14.87 14.81	13.49 13.33	13.31 13.47	13.41 13.48	13.39 13.30
		320° 310°	17.33 17.34	12.42 12.36	12.44	12.43 12.33	12.42	15.96 15.81	15.86 15.82	14.94	14.88 14.85	14.86 14.80 15.00	14.80	14.95	13.42	13.49	13.32	13.40
		300° 290°	17.34 17.42 17.33	12.36 12.37 12.41	12.46 12.42 12.39	12.33 12.43 12.46	12.41 12.42 12.34	15.81 15.83 15.82	15.82 15.90 15.97	14.93 14.94	14.89 14.80	15.00 14.85 14.89	14.81 14.89 15.00	14.87 14.88	13.38 13.48 13.35	13.47 13.39	13.48 13.48 13.46	
	Tablet	290° 290° 270°	17.33 17.44	12.41 12.41	12.39 12.47	12.46 12.43	12:34 12:31	15.82 15.82	15.97 15.93	14.94 14.80	14.80 14.85	14.89 14.80	15.00 14.96	14.86 14.87	13.35 13.41	13.39 13.41	13.46 13.48	13.47 13.39 13.36
		260° 250°	17.35 17.32	12.49	12.43	12.50	12.31 12.36	15.86 15.99	15.89	15.00 14.82	14.84 14.97	14.83	14.97 14.88	14.94 14.83	13.42	13.39	13.45	13.33
		240°	17.41	12.32	12.33	12.45	12.32	15.84	15.94	14.89	14.92	14.83	14.85	14.85	13.32 13.39	13.44	13.46	13.44
	1	230° 220°	17.50 17.33	12.37 12.48	12.38 12.33	12.49 12.41	12:36 12:41	16.00 15.93	15.85 15.82	14.90 15.00	14.92 14.89	14.95 14.80	14.89 14.83	14.98 14.80	13.46 13.49	13.38 13.30	13.44 13.49	13.49 13.33
	l	210°	17.46	12.49	12.39	12.49	12.35	15.90	15.98	14.94	14.82	14.82	14.87	14.86	13.43	13.37	13.46	13.40
	Laptop	200° 190°	17.41 20.85	12.40 20.82	12.49 17.90	12.38 19.38	12.42 17.85	15.89 20.87	15.93 15.84	14.80 20.98	14.90 20.88	14.80 21.15	14.81 20.40	14.86 17.35	13.38 13.46	13.37 13.43	13.33 13.45	13.45 13.37
	Tablet	195° 200°	20.97 17.46	20.89 12.48	17.80 12.40	19.43 12.30	17.84 12.34	20.89 15.92	15.94 15.97	20.95 14.99	20.80 14.98	21.06 14.89	20.41 14.95	17.36 14.86 17.39	13.45 13.39 13.47	13.43 13.44	13.45 13.32	13.50 13.42
		200° 199° 198°	20.83 20.94	20.84 20.94	12.40 17.80 17.94	19.42 19.39	12.34 17.82 17.99	20.92 20.86	15.82 15.84	20.92 20.91	20.91 20.80	21.17 21.11	20.31 20.49	17.39 17.36	13.47 13.38	13.32 13.44	13.37 13.37	13.33 13.43
	l	197°	20.99	20.99	17.84 17.95	19.50 19.47	17.92 17.97	20.84	15.87	20.82		21.09	20.49	17.50 17.39	13.43	13.44	13.48	13.50
	l	196° 195°	20.88 20.94	20.97 20.93	17.94	19.47	17.93	20.91 20.85	15.81 15.95	20.87 20.96	20.96 20.87	21.12	20.31 20.31	17.34	13.47	13.39 13.47	13.32 13.39	13.42 13.34
	1	194° 193°	20.99 20.97	20.94 20.83	17.99 17.84	19.40 19.41	17.86 17.87	20.87 20.87	15.90 15.83	20.90 20.81	20.99 20.88	21.06 21.10	20.35 20.37	17.30 17.48	13.40 13.48	13.35 13.48	13.50 13.49	13.42 13.31
	l	192°	20.88	20.96	17.95	19.47	17.93	20.90	15.89	20.84	20.87	21.00	20.46	17.48	13.40	13.35	13.33	13.40
	1	191° 190°	21.00 20.90	20.84 20.97	17.82 17.92	19.39 19.37	17.98 17.97	20.95 20.84	15.84 15.95	20.97 20.83	20.80 20.85	21.16 21.09	20.37 20.46	17.47 17.47	13.50 13.40	13.30 13.30	13.38 13.41	13.44 13.34
	l	180°	20.83	20.98	17.83	19.44	17.96	20.92	15.99	20.93	20.88	21.05	20.44	17.50	13.38	13.50	13.36	13.41
	l	170° 160°	20.91 20.81	20.84 20.92	17.94 17.85	19.38 19.43	17.87 17.98	20.91 20.86	15.85 15.93	20.93 21.00	21.00 20.87	21.00 21.08	20.42 20.45	17.43 17.35	13.46 13.42	13.45 13.39	13.30 13.45	13.33 13.39
	Laptop	150° 140°	20.86 20.84	20.88 20.93	18.00 17.83	19.43 19.32	17.92 17.84	20.88 20.97	15.98 15.95	20.96 20.96	20.99 20.84	21.07 21.15	20.43 20.43	17.33 17.37	13.48 13.46	13.36 13.50	13.40 13.36	13.44 13.50
	1	130°	20.86	20.92	17.84	19.43	17.95	20.98	15.97	20.91 20.82	21.00 20.97	21.05	20.36	17.35	13.43	13.38	13.40	13.43
	1	120°	21.00 20.86	20.97	17.94 17.80	19.48	17.91 17.85	20.86 20.88	15.90 15.80	20.81	20.89	21.04 21.15	20.33 20.43	17.48 17.37	13.35 13.38	13.30 13.36	13.49 13.35	13.37
	l	100°	20.93	20.82	17.83	19.33	17.85	21.00	15.98	20.97	20.94	21.08	20.34	17.30	13.39	13.42	13.45	13.43
	1	90°	20.92 20.90	20.81 20.86	18.00 17.98	19.35 19.39	17.80 17.86	20.87 20.82	15.93 15.88	20.83 20.86	20.80 20.92	21.20 21.01	20.40 20.50	17.35 17.48	13.30 13.34	13.38 13.30	13.49 13.35	13.38 13.50
	l	70°	20.97	20.84	17.87	19.46	17.88	20.96	15.89	21.00	20.87	21.18	20.36	17.34 17.30	13.49	13.49	13.44	13.32
	l	60°	20.96 20.80	20.91 20.83	17.96 17.90	19.42 19.38	17.88 17.94	20.81 21.00	15.97 15.89	20.96 20.99	20.98 20.94	21.19 21.00	20.33 20.31	17.46	13.50 13.31	13.41 13.40	13.38 13.36	13.37 13.33
	1	40°	20.86 20.90	20.82 20.83	17.83 17.83	19.48 19.49	17.81 17.98	21.00 20.95	15.92 15.99	20.86 20.90	20.99 20.84	21.02 21.18	20.41 20.30	17.33 17.47	13.32 13.47	13.45 13.38	13.36 13.43	13.50 13.30
	l	20°	20.94	20.90	17.94	19.45	17.88	20.94	15.81	20.88	20.89	21.06	20.30	17.30	13.49	13.32	13.38	13.32
	Lid close	10° 0°	20.89 n/a	20.91 n/a	17.95 n/a	19.30 n/a	17.99 n/a	20.99 n/a	15.98 n/a	21.00 n/a	20.91 n/a	21.05 n/a	20.45 n/a	17.39 n/a	13.43 n/a	13.37 n/a	13.50 n/a	13.49 n/a
	Laptop	5°	20.85	20.96	17.94	19.31	17.92	20.84	15.82	20.83	20.80 n/a	21.02	20.38 n/a	17.37 n/a	13.43 n/a	13.50 n/a	13.48	13.44 n/a
	1	3"	n/a n/a	n/a	n/a n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a							
	Lid close	2"	n/a n/a															
	L	ō°	n/a															

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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Arterna	Operation mode	e Lid angle	802.11b		C 802.11ac(160M) 5.2G_IC			802.11ac(80M) 5.6G	802.11ac(160M) 5.6G	802.11n(40M) 5.8G			802.11ac(80M) 5.9G_IC		802.11ax(160M) 6.2G			802.11ax(180M) 7.0G
	Lid close Laptop	0° 10°	n/a 20.98 20.83	n/a 20.94 20.93	n/a 17.82 17.83	nia 20.85 20.91	n/a 17.91 17.99	n/a 19.86 19.81	n/a 15.83 15.85	n/a 19.85 19.83	n/a 19.89 19.90	n/a 19.31 19.40	n/a 19.33 19.37	17.32 17.33	n/a 13.33 13.31	n/a 13.38 13.38	n/a 13.38 13.43	n/a 13.34 13.50
	Laptop	5° 0°	20.83 n/a	n/a	n/a	20.91 n/a	17.99 n/a	19.81 n/a	15.85 n/a	19.83 n/a	19.90 n/a	19.40 n/a	19.37 n/a	17.33 n/a	n/a	13.38 n/a	n/a	n/a
	Lid close	1*	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		3°	n/a n/a	n/a n/a	n/a n/a	nia nia	n/a n/a	nia nia	n/a n/a	n/a n/a	n/a n/a	n/a n/a	nia nia	n/a n/a	n/a n/a	n/a	n/a n/a	n/a n/a
		5°	21.00 20.96	20.90 20.87	17.93 17.97	20.99 20.92	17.97 17.83	19.88 19.82	15.90 15.80	19.93 19.84	19.81 19.96	19.44 19.42	19.38 19.42	17.34 17.43	13.49 13.30	n/a 13.32 13.30	13.44	13.49 13.48
		7°	21.00	20.93	17.99	20.95	17.94	19.87	15.98	19.86	19.98	19.47	19.49	17.31	13.41	13.37	13.44	13.35
		8°	20.83 20.90	20.97 20.86	17.85 17.82	20.99 20.98	17.80 17.92	19.84 19.97	15.97 15.90	19.96 19.95	19.82 19.87	19.30 19.39	19.37 19.42	17.31 17.47	13.43 13.31	13.34 13.31	13.48 13.35	13.49 13.47
		10°	20.93 20.98	20.81 20.84	17.87	20.96	17.96 17.82	20.00 19.91	15.98 15.88	19.83 19.82	19.81	19.32 19.36	19.49 19.32	17.37	13.39 13.36	13.35	13.35 13.46	13.50 13.44
		20° 30°	21.00	20.92	17.90 17.86	20.90 21.00	17.84	19.99	15.95	19.94	19.83 19.95	19.33	19.43	17.34 17.44	13.33	13.38 13.33	13.42	13.32
		40° 50°	20.80 20.87	20.81 20.87	17.88 17.92	20.80 20.88	17.93 17.94	19.86 19.93	16.00 15.85	19.90 19.97	19.87 19.97	19.37 19.33	19.43 19.46	17.43 17.47	13.47 13.46	13.41 13.30	13.41 13.44	13.43 13.37
		60°	20.90	20.91 20.84 20.81	17.99 17.99	20.90 20.89	17.91 17.99	19.84 19.89	15.96 15.90	19.98 19.85	19.93 19.87	19.36 19.48	19.37 19.35	17.30 17.41	13.45	13.45	13.47	13.34
	Laptop	80"	20.81 20.87		17.99 17.81	20.89 20.99	17.99 17.97	19.89 19.89	15.90 15.87	19.85 19.85	19.87 19.85	19.48 19.44	19.35 19.30	17.41 17.48	13.31 13.39	13.44 13.34	13.30 13.50	13.49 13.48
		90° 100° 110°	20.97 20.85 20.87	21.00 20.89 20.92	17.98 17.85	20.97 20.83 20.88	17.95 17.83 17.82	19.91 19.87 19.90	15.89 16.00 15.95	19.88 19.87 19.98	19.95 19.86 19.98	19.32 19.46 19.31	19.47 19.30 19.41	17.34 17.36 17.33	13.31 13.32 13.45	13.37 13.41 13.50	13.43 13.32 13.33	13.40 13.30 13.31
		120° 120°	20.93 20.80	20.92 20.96 20.85	17.89 17.90 17.88	20.88 20.91 21.00	17.82 17.80 17.99	19.90 20.00 19.94	15.95 15.91 15.96	19.98 19.91 20.00	19.98 19.92 19.97	19.31 19.37 19.36	19.41 19.47 19.44	17.33 17.43 17.41	13.46 13.38	13.45 13.42	13.33 13.45 13.37	13.31 13.36 13.34
		130° 140° 150°	20.80 20.85 20.97	20.85 20.97 20.85	17.88 17.94 17.94	21.00 20.86 21.00	17.99 17.88 17.82	19.94 19.95 20.00					19.44 19.42 19.34	17.41 17.47 17.48	13.38 13.44 13.37	13.42 13.49 13.48	13.37 13.31 13.35	13.34 13.42 13.48
		150° 160°	20.97	20.85 21.00	17.94 17.80	21.00 20.82	17.82 17.96	20.00 19.93	15.92 15.82 15.88	19.92 19.80 19.97	19.99 19.96 19.94	19.36 19.46 19.49	19.34 19.34	17.48 17.40	13.37 13.46	13.48 13.42	13.35 13.47	13.48 13.34
		170° 180°	20.82 20.83	20.96 20.87	17.84 17.88	20.80 20.94	17.85 17.86	19.96 19.90	15.81 15.95	19.96 19.80	19.92 19.80	19.50 19.32	19.37 19.44	17.36 17.48	13.43 13.42	13.37 13.32	13.48 13.33	13.47 13.43
		190° 200°	20.98 20.86	20.89 10.00	17.95	20.90 20.90 9.96	17.91	19.97 14.93	15.94 14.85	20.00 15.31	19.84 15.35	19.32 19.44 17.33	19.42 17.34	17.47	13.44 13.41	13.46 13.46	13.38	13.43 13.31 13.50
	Tablet	195°	21.00	20.90	9.93 17.92	21.00	9.89 17.92	19.80	15.82	19.87	19.95	19.36	19.37	17.42 17.48	13.44	13.40	13.30 13.47	13.40
	Laptop	196° 197°	20.93 20.97	20.88 20.80	17.81 17.85	20.83 20.93	17.84 17.83	19.91 19.85	15.85 15.89	19.85 19.82	19.91 19.98	19.31 19.41	19.47 19.35	17.39 17.48	13.48 13.49	13.47 13.34	13.42 13.46	13.33 13.32
		198° 199°	20.81 20.92	20.85 20.85	17.84 17.90	20.95 20.84	17.81 17.97	19.93 19.89	15.99 15.93	19.96 19.89	19.83 19.85	19.32 19.43	19.30 19.48	17.50 17.38	13.30 13.42	13.47 13.30	13.40 13.39	13.34 13.33
		200°	20.82	9.92	9.98	9.85	9.90	14.98	14.85	15.30	15.46	17.32	17.45	17.46	13.35	13.41	13.39	13.46
		201° 202°	20.89 20.99	9.92 9.94	9.95 9.84	9.82 9.99	9.86 9.88	14.90 14.90	14.81 14.92	15.48 15.35	15.50 15.45	17.39 17.49	17.41 17.33	17.31 17.31	13.32 13.41	13.43 13.41	13.41 13.42	13.31 13.49
		203° 204°	20.88 20.93	9.84 9.99	9.83 9.93 9.93	9.85 9.97	10.00 9.97	14.93 14.96	14.83 14.98 14.98	15.40 15.46 15.34	15.33 15.33 15.48	17.49 17.49 17.44	17.48 17.48	17.41 17.38	13.35 13.35	13.49 13.45	13.33 13.33	13.44 13.41
		205*	20.89	9.98	9.93	9.83	9.92	14.81	14.98	15.34	15.48	17.44	17.41	17.34	13.43	13.31	13.40	13.35
		208° 207° 208°	20.81 20.80 20.90	9.97 9.96 9.87	9.96 9.97 9.82	9.91 9.82 9.93	9.97 9.87 9.85	14.82 14.83 15.00	14.83 14.80 14.88	15.47 15.47 15.30	15.31 15.40 15.31	17.43 17.35 17.49	17.34 17.34 17.36	17.47 17.46 17.43	13.48 13.35 13.38	13.37 13.43 13.30	13.32 13.41 13.50	13.50 13.42 13.34
		209° 210°	20.92 20.95	9.88 10.00	9.82 9.85 9.82	9.93 9.86 9.90	9.85 9.93 9.97	15.00 14.88 14.91	14.86 14.90	15.43 15.42	15.37 15.39	17.49 17.36 17.35	17.36 17.41 17.37	17.43 17.46 17.30	13.34 13.36	13.30 13.33 13.30	13.50 13.38 13.44	13.34 13.31 13.31
					9.82 9.84	9.90 9.82		14.91 14.87	14.90		15.39 15.39			17.30 17.43 17.44	13.36 13.50	13.30 13.45		13.31 13.45 13.33
	Tablet	220° 230° 240°	20.86 20.83 20.81	9.85 9.91 9.95	9.84 9.80 9.99	9.82 9.86 9.90	9.84 9.92 9.80	14.87 14.98 14.88	14.88 14.90 14.84	15.30 15.37 15.30	15.39 15.44 15.32	17.35 17.48 17.31	17.31 17.35 17.40	17.44 17.30	13.50 13.37 13.39	13.45 13.44 13.34	13.43 13.49 13.47	13.33 13.37
		250° 260°	20.88 20.99	9.82 9.95	9.86	10.00 9.84	9.88 9.85	15.00 14.94	14.82 14.91	15.39 15.39	15.44 15.42	17.45 17.36	17.49 17.36	17.34 17.32	13.39 13.45	13.49 13.47	13.33 13.30	13.38 13.47
		270° 280°	20.92 21.00	9.95 9.95	9.90 9.97 9.94	10.00 9.83	9.90 9.90	14.91 14.84	14.91 14.97	15.30 15.44	15.42 15.42 15.40	17.42 17.38	17.46 17.30	17.46 17.44	13.40 13.32	13.48 13.48	13.31 13.34	13.47 13.47 13.47
		290°	20.89	9.82	9.93	10.00	9.87	14.97	14.88	15.47	15,50	17.33	17.32	17.45	13.38	13.37	13.35	13.47
		300° 310°	20.99 20.83	9.87 9.81	10.00 10.00	9.80 10.00	9.98 9.91	14.94 14.95	14.85 14.91	15.40 15.49	15.38 15.48	17.40 17.50	17.35 17.42	17.32 17.39	13.33 13.45	13.40 13.35	13.46 13.35	13.38 13.41
Aux		320° 330°	20.90 20.96	9.98 9.99	9.88 9.96	9.90 9.83	9.85 9.93	14.84 14.85	14.88 14.81	15.45 15.49	15.46 15.38	17.37 17.46	17.41 17.49	17.47 17.50	13.47 13.38	13.38 13.30	13.35	13.37 13.33
		340°	21.00	9.90	9.80	9.93	9.84	14.97	14.90	15.39	15.31	17.42	17.48	17.41	13.38	13.48	13.45	13.40
		350° 360°	20.83 20.87	10.00 9.98	9.86 9.88	9.87 9.82	9.83 9.81	14.86 14.96	14.99 14.90	15.32 15.47	15.32 15.50	17.36 17.33	17.45 17.45	17.47 17.31	13.43 13.47	13.47 13.37	13.49 13.36	13.49 13.34
		350° 340°	20.80 20.89	9.99	9.86 9.87	9.82 9.97	9.87 9.84	14.81 14.89	14.84 14.94	15.39 15.47	15.39 15.46	17.36 17.41	17.39 17.32	17.48 17.35	13.30 13.47	13.35 13.31	13.50 13.43	13.40 13.44
		330*	20.88	9.89	9.82	9.82	9.88	14.85	14.80	15.48	15.31	17.34	17.41	17.30	13.35	13.38	13.36	13.41
		320° 310° 300°	20.97 20.83 21.00	9.93 9.85 9.91	9.96 9.86 9.98	9.97 9.82 9.92	9.80 9.94 9.85	14.91 15.00 14.80	14.93 14.90 14.88	15.42 15.50 15.48	15.49 15.43 15.45	17.44 17.43	17.32 17.43 17.47	17.37 17.37 17.40	13.45 13.41 13.39	13.50 13.39 13.50	13.50 13.33 13.41	13.36 13.32 13.41
		290'	20.80	9.81	9.92	9.83	9.98	14.93	14.89	15.33	15.41 15.30	17.34	17.32	17.42	13.43	13.44	13.33	13.39
	Tablet	290° 270° 260°	20.85 20.81 20.83	9.98 9.83 9.86	9.82 9.99 9.86	9.99 9.97 9.81	9.88 9.82 9.82	14.87 14.92 14.98	14.92 15.00 14.84	15.50 15.33 15.30	15.30 15.35 15.40	17.30 17.40 17.36	17.30 17.33 17.44	17.48 17.32 17.37	13.37 13.46 13.40	13.30 13.41 13.47	13.42 13.38 13.50	13.30 13.37 13.49
		260°	20.95	9.84	10.00	9.81 9.82	9.88	14.96	14.97	15.30 15.35	15.33	17.38	17.32	17.50	13.33	13.34	13.50 13.50	13.37
		240° 230°	20.83 20.93	9.85	9.83 9.88	9.80 9.95	9.96 9.88	14.92 14.81	14.92 14.97	15.38 15.49	15.50 15.50	17.49 17.33	17.33 17.43	17.33 17.50	13.45 13.43	13.50 13.46	13.31 13.45	13.36 13.45
		220° 210°	20.96 20.94	9.87 9.92	9.88 9.88	9.93 9.98	9.91 10.00	14.98 15.00	14.87	15.49 15.44	15.37 15.35	17.35 17.41	17.49 17.45	17.50 17.49	13.49 13.41	13.35 13.44	13.47 13.40	13.42 13.46
		200°	20.85	9.90	9.82	9.88	9.84	14.80	14.96	15.39	15.39	17.49	17.46	17.48	13.41	13.45	13.40	13.48
	Laptop	190° 195°	20.83 20.95	20.84 20.97	17.96 17.82	20.91 20.83	17.87 17.86	19.83 19.99	15.87 15.82	19.83 19.83	19.92 19.90	19.47 19.48	19.33 19.42	17.50 17.47	13.39 13.49	13.50 13.47	13.42 13.31	13.46 13.43
	Tablet	200° 199°	20.80 20.83	9.92 20.93	9.81 17.91	9.80 20.91	9.86 17.84	14.93 19.81	14.95 15.86	15.49 19.92	15.43 19.93	17.36 19.31	17.50 19.36	17.40 17.44	13.32 13.43	13.41 13.30	13.33 13.46	13.38 13.39
		198°	20.87	20.90	17.87	20.95	17.85	19.95	15.89	19.88	19.99	19.46	19.41	17.36	13.44	13.49	13.41	13.41
		197° 196° 195°	20.94 20.84	20.86 20.81	17.97 17.89 17.87	20.80 20.97	17.91 17.82 17.89	19.99 19.89 19.87	15.87 15.99	19.95 19.98	19.82 19.99	19.33 19.40	19.47 19.43 19.42	17.33 17.45	13.46 13.42	13.44 13.38	13.44 13.44 13.41	13.44 13.39
		194°	20.90 20.82	20.92 20.94	17.90	20.83 20.88	18.00	19.95	15.87 15.83	19.80 19.85	19.94 19.91	19.31 19.50	19.42	17.32 17.36	13.38 13.49	13.39 13.34	13.32	13.40 13.42
		193° 192°	20.98 20.81	20.98 20.81	17.93 17.89	21.00 20.80	17.88 17.90	19.86 19.84	15.88 15.97	19.86 19.98	20.00 19.80	19.30 19.50	19.40 19.37	17.38 17.38	13.33 13.47	13.31 13.46	13.41 13.40	13.45 13.36
1		191° 190°	20.81 20.96	20.90 20.99	17.82 17.81	20.86 20.89	17.98 17.81	19.88 19.94	15.90 15.99	19.95 19.82	20.00 19.99	19.33 19.43	19.41 19.37	17.50 17.43	13.40 13.46	13.47	13.37 13.45	13.40 13.37
		180°	20.92	20.81	17.84 17.90	20.80	17.86	19.84	15.96	19.97	19.96	19.43	19.46	17.45	13.37	13.45	13.31	13.39
		170° 160°	20.87 20.92	20.85 20.93	17.97	20.87 20.91	17.85 17.95	19.99 19.91	15.80 15.88	19.96 19.83	19.80 19.80	19.32 19.49	19.48 19.43	17.50 17.32	13.32 13.38	13.39 13.47	13.39 13.36	13.44 13.46
	Laptop	150° 140°	20.97 20.81	20.96 20.87	17.86 17.91	20.82 20.92	17.93 17.91	19.82 19.83	15.91 15.93	19.95 19.82	19.83 19.90	19.48 19.41	19.43 19.48	17.42 17.45	13.44 13.32	13.39 13.38	13.30 13.30	13.46 13.50
		130°	20.86	20.82	17.84	20.81	17.99	19.83	15.95	19.94	19.85	19.39	19.42	17.47	13.49	13.40	13.38	13.41
		120° 110°	20.88 20.94	20.95 20.86	17.91 17.90	20.90 20.83	17.83 18.00	19.96 19.96	15.94 15.87	19.95 19.86	19.89 19.95	19.45 19.49	19.47 19.35	17.38 17.30	13.36 13.34	13.43 13.30	13.37 13.38	13.33 13.39
		100°	20.89 20.92	20.87 20.99	17.90 17.85	20.91 20.84	17.80 17.99	19.80 19.81	16.00 15.84	19.83 19.88	19.97 19.96	19.46 19.38	19.47 19.35	17.46 17.35	13.44 13.44	13.48 13.33	13.49 13.50	13.41
		80° 70°	20.92 20.88	20.94 20.86	17.88 17.93	20.83 20.98	17.88 17.91	19.96 19.97	15.88 15.88	19.87 19.82	19.83 19.92	19.42 19.37	19.32 19.44	17.47 17.42	13.42	13.40	13.44 13.43	13.47
		60°	20.88 20.93 20.94	20.96 20.97 20.85	17.93 17.85 17.84	20.96 20.95 20.80	17 97	19.97 19.99 19.90	15.81 15.90	19.82 19.82 19.83	19.92 19.94 19.85	19.37 19.30 19.35	19.44 19.50 19.33	17.42 17.45 17.34	13.47	13.34 13.33	13.48 13.48 13.43	13.31 13.30 13.43
		50° 40°	20.94 20.88	20.85 20.80	17.84 17.86	20.80 20.97	17.93 17.83	19.90 19.97	15.90 15.81	19.83 19.98	19.85 19.91	19.35 19.31	19.33 19.34	17.34 17.36	13.38 13.46	13.33 13.30	13.43 13.34	13.43 13.44
		30"	20.99	20.85 20.97	17.97 17.82	20.83 20.98	17.95 17.83	19.83	15.92 15.97	20.00	19.81 19.88	19.33 19.48	19.46 19.40	17.41 17.95	13.41	13.47	13.40	13.30
		10°	20.84	20.90	17.87	20.91	17.89	19.95	15.99	19.83	19.93	19.42	19.30	17.45	13.37	13.31	13.43	13.34
	Lid close Laptop	0° 5°	n/a 20.99	n/a 20.82	n/a 17.90	n/a 20.87	n/a 17.85	n/a 19.89	n/a 15.97	n/a 19.85	n/a 19.95	n/a 19.31	n/a 19.43	n/a 17.43	n/a 13.46	n/a 13.43	n/a 13.43	n/a 13.30
		4"	n/a n/a	n/a n/a	n/a n/a	nia nia	n/a n/a	nia nia	n/a n/a									
	Lid close	2"	n/a n/a	n/a n/a	n/a n/a	nia	n/a	nia nia	n/a n/a	n/a n/a	n/a n/a	n/a n/a	nia nia	n/a n/a	n/a	n/a	n/a n/a	n/a
		01	n/a n/a	n/a n/a	n/a n/a	nia nia	n/a n/a	n/a n/a	n/a	n/a n/a	n/a n/a	n/a	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a

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5.5 Test limit

§ 2.1093(d)(1)

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

Radiofrequency radiation exposure limits.

§ 1.1310(a)

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

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

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

Note to paragraphs (a) through (c):

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

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

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

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

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Ex	posure	
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	l 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			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density. Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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MAXIMUM OUTPUT POWER

6.1 **WLAN**

Notebook mode

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		ľ	naiii			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		21.00	20.99
	802.11b	6	2437	1Mbps	21.00	20.98
2.45GHz		11	2462		21.00	20.90
		1	2412]	20.00	19.86
	802.11g	6	2437	6Mbps	21.00	20.91
		11	2462		18.50	18.38
	802.11n20-HT0	1	2412	_	20.00	19.86
		6	2437	MCS0	21.00	20.84
		11	2462		18.50	18.39
		1	2412		20.00	19.87
	802.11ax20-HE0	6	2437	MCS0	21.00	20.89
		11	2462		18.50	18.39
		3	2422		16.00	15.91
	802.11n40-HT0	6	2437	MCS0	21.00	20.83
		9	2452		16.00	15.85
		3	2422]	16.00	15.84
	802.11ax40-HE0	6	2437	MCS0	21.00	20.83
		9	2452		16.00	15.90

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		N	<u>//ain</u>			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		20.00	19.91
	802.11a	40	5200	6Mbpc	21.00	20.91
5.15-5.25 GHz	002.11a	44	5220	6Mbps	21.00	20.88
		48	5240		21.00	20.86
		36	5180		20.00	19.86
	802.11n20-HT0	40	5200	MCS0	21.00	20.92
		44	5220	MCSU	21.00	20.88
		48	5240		21.00	20.83
	802.11ax20-HE0	36	5180		20.00	19.90
		40	5200	MCS0	21.00	20.85
		44	5220	MCSU	21.00	20.89
		48	5240		21.00	20.92
	802.11n40-HT0	38	5190	MCS0	18.25	18.24
	602.1111 4 0-1110	46	5230	MCSU	21.00	20.96
	802.11ax40-HE0	38	5190	MCS0	18.25	18.13
	002.118X4U-NEU	46	5230	IVICSU	21.00	20.87
	802.11ac80-VHT0	42	5210	MCS0	19.00	18.87
	802.11ax80-HE0	42	5210	MCS0	19.00	18.90
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.85
	802.11ax160-HE0	50	5250	MCS0	15.00	14.92

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Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
	802.11a	52	5260	6Mbps	19.50	19.39		
		56	5280		19.50	19.38		
		60	5300		19.50	19.34		
		64	5320		19.50	19.40		
	802.11n20-HT0	52	5260	MCS0	19.50	19.41		
		56	5280		19.50	19.37		
		60	5300		19.50	19.31		
		64	5320		19.50	19.33		
5.25-5.35 GHz	802.11ax20-HE0	52	5260	MCS0	19.50	19.35		
5.25-5.35 GHZ		56	5280		19.50	19.42		
		60	5300		19.50	19.40		
		64	5320		19.50	19.39		
	802.11n40-HT0	54	5270	MCS0	19.50	19.49		
		62	5310		18.00	17.99		
	802.11ax40-HE0	54	5270	MCS0	19.50	19.37		
		62	5310		18.00	17.85		
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.92		
	802.11ax80-HE0	58	5290	MCS0	18.00	17.83		

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Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		100	5500	6Mbps	21.00	20.90		
	802.11a	120	5600		21.00	20.84		
		140	5700		20.75	20.66		
		100	5500	MCS0	21.00	20.83		
	802.11n20-HT0	120	5600		21.00	20.87		
		140	5700		20.75	20.60		
		100	5500	MCS0	21.00	20.88		
	802.11ax20-HE0	120	5600		21.00	20.92		
		140	5700		20.75	20.67		
		102	5510	MCS0	20.25	20.12		
	802.11n40-HT0	118	5590		21.00	20.92		
		134	5670		21.00	20.84		
5.6GHz		142	5710		21.00	20.88		
	802.11ax40-HE0	102	5510	MCS0	20.25	20.17		
		118	5590		21.00	20.90		
	002.11ax40-HE0	134	5670		21.00	20.91		
		142	5710		21.00	20.86		
		106	5530	MCS0	19.00	18.99		
	802.11ac80-VHT0	122	5610		21.00	20.92		
		138	5690		21.00	20.98		
		106	5530	MCS0	19.25	19.16		
	802.11ax80-HE0	122	5610		21.00	20.92		
		138	5690		21.00	20.84		
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.83		
	802.11ax160-HE0	114	5570	MCS0	16.00	15.84		

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Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
	802.11a	149	5745	6Mbps	21.00	20.86		
		157	5785		21.00	20.83		
		165	5825		21.00	20.85		
	802.11n20-HT0	149	5745	MCS0	21.00	20.86		
		157	5785		21.00	20.85		
		165	5825		21.00	20.88		
	802.11ax20-HE0	149	5745	MCS0	21.00	20.84		
5.8GHz		157	5785		21.00	20.88		
		165	5825		21.00	20.85		
	802.11n40-HT0	151	5755	MCS0	21.00	20.84		
		159	5795		21.00	20.83		
	802.11ax40-HE0	151	5755	MCS0	21.00	20.89		
		159	5795		21.00	20.92		
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.94		
	802.11ax80-HE0	155	5775	MCS0	21.00	20.89		

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Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
	802.11a	169	5845]	19.50	19.37		
		173	5865	6Mbps	19.50	19.38		
		177	5885		19.50	19.34		
	802.11n20-HT0	169	5845	MCS0	19.50	19.36		
		173	5865		20.00	19.88		
		177	5885		20.00	19.84		
	802.11ax20-HE0	169	5845	MCS0	20.00	19.88		
		173	5865		20.00	19.87		
5.9GHz		177	5885		20.00	19.84		
	802.11n40-HT0	167	5835	MCS0	21.00	20.99		
		175	5875		21.00	20.97		
	802.11ax40-HE0	167	5835	MCS0	21.00	20.83		
		175	5875		21.00	20.88		
	802.11ac80-VHT0	171	5855	MCS0	20.50	20.38		
	802.11ax80-HE0	171	5855	MCS0	20.50	20.42		
	802.11ac160-VHT0	163	5815	MCS0	17.50	17.37		
	802.11ax160-HE0	163	5815	MCS0	17.50	17.40		

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	Aux									
			Aux 							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		1	2412		21.00	20.92				
	802.11b	6	2437	1Mbps	21.00	20.97				
		11	2462		21.00	20.99				
	802.11g	1	2412		19.75	19.63				
		6	2437	6Mbps	21.00	20.85				
		11	2462		18.75	18.62				
		1	2412	MCS0	19.75	19.62				
	802.11n20-HT0	6	2437		21.00	20.84				
2.45GHz		11	2462		18.75	18.58				
2.43GHZ		1	2412		19.75	19.58				
	802.11ax20-HE0	6	2437	MCS0	21.00	20.86				
		11	2462		18.75	18.63				
		3	2422		16.25	16.12				
	802.11n40-HT0	6	2437	MCS0	21.00	20.91				
		9	2452	<u> </u>	17.50	17.33				
		3	2422		16.25	16.09				
	802.11ax40-HE0	6	2437	MCS0	21.00	20.83				
		9	2452		17.50	17.33				

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		20.00	19.85
	802.11a	40	5200	6Mbps	21.00	20.91
	002.114	44	5220	Olvibps	21.00	20.84
		48	5240		21.00	20.89
	802.11n20-HT0	36	5180		20.00	19.92
		40	5200	MCS0	21.00	20.92
		44	5220	MCSU	21.00	20.88
		48	5240		21.00	20.84
		36	5180		20.00	19.83
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	21.00	20.92
5.15-5.25 GHZ	002.11ax20-FIE0	44	5220	MCSU	21.00	20.86
		48	5240		21.00	20.88
	802.11n40-HT0	38	5190	MCS0	19.25	19.17
	ου2. Ι ΙΙΙ 4 υ-Π Ι υ	46	5230	IVICSU	21.00	20.93
	902 11ov40 UE0	38	5190	MCS0	19.25	19.10
	802.11ax40-HE0	46	5230	IVICSU	21.00	20.89
	802.11ac80-VHT0	42	5210	MCS0	18.75	18.65
	802.11ax80-HE0	42	5210	MCS0	18.75	18.62
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.36
	802.11ax160-HE0	50	5250	MCS0	14.50	14.34

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		21.00	20.88
	802.11a	56	5280	6Mbps	21.00	20.89
	802.118	60	5300	Givibps	21.00	20.85
		64	5320		21.00	20.83
		52	5260	MCS0	21.00	20.89
	802.11n20-HT0	56	5280		21.00	20.84
	002.111120-1110	60	5300		21.00	20.86
		64	5320		21.00	20.87
5.25-5.35 GHz		52	5260		21.00	20.86
3.23-3.33 GHZ	802.11ax20-HE0	56	5280	MCS0	21.00	20.88
	002.11ax20-HE0	60	5300	IVICSU	21.00	20.82
		64	5320		21.00	20.88
	802.11n40-HT0	54	5270	MCS0	21.00	20.99
	002.111140-1110	62	5310	MCSU	18.00	17.99
	802.11ax40-HE0	54	5270	MCS0	21.00	20.83
	002.11ax40-HEU	62	5310	IVICSU	18.00	17.86
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.82
	802.11ax80-HE0	58	5290	MCS0	18.00	17.84

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			Δ.			
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		20.00	19.83
	802.11a	120	5600	6Mbps	20.00	19.87
		140	5700		20.00	19.91
		100	5500		20.00	19.88
	802.11n20-HT0	120	5600	MCS0	20.00	19.84
		140	5700		20.00	19.87
		100	5500		20.00	19.91
	802.11ax20-HE0	120	5600	MCS0	20.00	19.84
		140	5700		20.00	19.91
		102	5510		20.00	19.89
	802.11n40-HT0	118	5590	MCS0	20.00	19.92
	802.111140-F10	134	5670		20.00	19.85
5.6GHz		142	5710		20.00	19.86
		102	5510		20.00	19.95
	802.11ax40-HE0	118	5590	MCS0	20.00	19.92
	802.11ax40-nE0	134	5670	IVICSU	20.00	19.90
		142	5710		20.00	19.84
		106	5530		19.25	19.21
	802.11ac80-VHT0	122	5610	MCS0	20.00	19.94
		138	5690]	20.00	19.99
		106	5530		19.00	18.90
	802.11ax80-HE0	122	5610	MCS0	20.00	19.89
		138	5690		20.00	19.86
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.83
	802.11ax160-HE0	114	5570	MCS0	16.00	15.83

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		20.00	19.84
	802.11a	157	5785	6Mbps	20.00	19.86
		165	5825		20.00	19.89
	802.11n20-HT0	149	5745	MCS0	20.00	19.92
		157	5785		20.00	19.84
		165	5825		20.00	19.92
		149	5745		20.00	19.90
5.8GHz	802.11ax20-HE0	157	5785	MCS0	20.00	19.85
		165	5825		20.00	19.88
	802.11n40-HT0	151	5755	MCS0	20.00	19.92
	002.111 4 0-1110	159	5795	MCSU	20.00	19.90
	802.11ax40-HE0	151	5755	MCS0	20.00	19.85
	002.11ax40-nE0	159	5795		20.00	19.86
	802.11ac80-VHT0	155	5775	MCS0	20.00	19.99
	802.11ax80-HE0	155	5775	MCS0	20.00	19.92

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845]	19.50	19.39
	802.11a	173	5865	6Mbps	19.50	19.37
		177	5885		19.50	19.34
	802.11n20-HT0	169	5845		19.50	19.34
		173	5865	MCS0	19.50	19.37
		177	5885		19.50	19.36
		169	5845		19.50	19.40
	802.11ax20-HE0	173	5865	MCS0	19.50	19.41
5.9GHz		177	5885	1	19.50	19.42
	000 11n40 LITO	167	5835	MCS0	19.50	19.40
	802.11n40-HT0	175	5875	IVICSU	19.50	19.42
	902 11av40 LIE0	167	5835	MCS0	19.50	19.40
	802.11ax40-HE0	175	5875	IVICSU	19.50	19.38
	802.11ac80-VHT0	171	5855	MCS0	19.50	19.49
	802.11ax80-HE0	171	5855	MCS0	19.50	19.42
	802.11ac160-VHT0	163	5815	MCS0	17.50	17.39
	802.11ax160-HE0	163	5815	MCS0	17.50	17.37

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Tablet mode

Tablet mode						
		N	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412	_	17.50	17.49
	802.11b	6	2437	1Mbps	17.50	17.43
		11	2462		17.50	17.46
	802.11g	1	2412		17.50	17.35
		6	2437	6Mbps	17.50	17.39
		11	2462		17.50	17.39
		1	2412	MCS0	17.50	17.38
	802.11n20-HT0	6	2437		17.50	17.41
2.45GHz		11	2462		17.50	17.33
2.430112		1	2412		17.50	17.42
	802.11ax20-HE0	6	2437	MCS0	17.50	17.39
		11	2462		17.50	17.36
		3	2422		16.00	15.83
	802.11n40-HT0	6	2437	MCS0	17.50	17.35
		9	2452		16.00	15.84
		3	2422		16.00	15.83
	802.11ax40-HE0	6	2437	MCS0	17.50	17.37
		9	2452		16.00	15.85

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		N	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.50	12.36
	802.11a	40	5200	6Mbps	12.50	12.39
	002.114	44	5220	Olvibps	12.50	12.35
		48	5240		12.50	12.39
	802.11n20-HT0	36	5180		12.50	12.37
		40	5200	MCS0	12.50	12.34
		44	5220	IVICSU	12.50	12.36
		48	5240		12.50	12.38
		36	5180		12.50	12.34
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	12.50	12.38
5.15-5.25 GHZ	002.11ax20-FIE0	44	5220	MCSU	12.50	12.40
		48	5240		12.50	12.37
	802.11n40-HT0	38	5190	MCS0	12.50	12.38
	002.111140-Π10	46	5230	IVICSU	12.50	12.36
	902 11ov40 UE0	38	5190	MCS0	12.50	12.41
	802.11ax40-HE0	46	5230	IVICSU	12.50	12.36
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.42
	802.11ax80-HE0	42	5210	MCS0	12.50	12.35
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.49
	802.11ax160-HE0	50	5250	MCS0	12.50	12.39

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		<u> </u>	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		12.50	12.39
	802.11a	56	5280	6Mbps	12.50	12.38
	002.11d	60	5300	Olvibps	12.50	12.40
		64	5320	1	12.50	12.41
		52	5260	MCS0	12.50	12.35
	802.11n20-HT0	56	5280		12.50	12.33
	002.111120-1110	60	5300		12.50	12.38
		64	5320		12.50	12.40
5.25-5.35 GHz		52	5260		12.50	12.35
5.25-5.35 GHZ	802.11ax20-HE0	56	5280	MCS0	12.50	12.36
	002.11ax20-ne0	60	5300	MCSU	12.50	12.40
		64	5320		12.50	12.34
	802.11n40-HT0	54	5270	MCS0	12.50	12.41
	ου2.11114U-Π1U	62	5310	IVICSU	12.50	12.40
	802.11ax40-HE0	54	5270	MCSO	12.50	12.35
	002.11ax40-ΠΕU	62	5310	MCS0	12.50	12.37
	802.11ac80-VHT0	58	5290	MCS0	12.50	12.49
	802.11ax80-HE0	58	5290	MCS0	12.50	12.37

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		N	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		16.00	15.90
	802.11a	120	5600	6Mbps	16.00	15.84
		140	5700		16.00	15.83
		100	5500		16.00	15.90
	802.11n20-HT0	120	5600	MCS0	16.00	15.88
		140	5700		16.00	15.83
		100	5500		16.00	15.88
	802.11ax20-HE0	120	5600	MCS0	16.00	15.89
		140	5700		16.00	15.88
		102	5510		16.00	15.83
	802.11n40-HT0	118	5590	MCS0	16.00	15.92
	002.111140-1110	134	5670		16.00	15.87
5.6GHz		142	5710		16.00	15.88
		102	5510		16.00	15.91
	802.11ax40-HE0	118	5590	MCS0	16.00	15.90
	002.11ax40-11L0	134	5670	IVICSO	16.00	15.83
		142	5710		16.00	15.82
		106	5530		16.00	15.99
	802.11ac80-VHT0	122	5610	MCS0	16.00	15.92
		138	5690		16.00	15.95
		106	5530]	16.00	15.85
	802.11ax80-HE0	122	5610	MCS0	16.00	15.87
		138	5690		16.00	15.89
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.95
	802.11ax160-HE0	114	5570	MCS0	16.00	15.83

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		<u> </u>	Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		15.00	14.85
	802.11a	157	5785	6Mbps	15.00	14.84
		165	5825		15.00	14.90
	802.11n20-HT0	149	5745	MCS0	15.00	14.83
		157	5785		15.00	14.88
		165	5825		15.00	14.92
		149	5745		15.00	14.91
5.8GHz	802.11ax20-HE0	157	5785	MCS0	15.00	14.92
		165	5825		15.00	14.86
	802.11n40-HT0	151	5755	MCS0	15.00	14.84
	ου2.11140-Π10	159	5795	IVICSU	15.00	14.91
	802.11ax40-HE0	151	5755	MCS0	15.00	14.85
	002.11ax40-nE0	159	5795		15.00	14.84
	802.11ac80-VHT0	155	5775	MCS0	15.00	14.99
	802.11ax80-HE0	155	5775	MCS0	15.00	14.89

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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		15.00	14.88
	802.11a	173	5865	6Mbps	15.00	14.84
		177	5885		15.00	14.90
	802.11n20-HT0	169	5845		15.00	14.83
		173	5865	MCS0	15.00	14.88
		177	5885		15.00	14.91
		169	5845	MCS0	15.00	14.85
	802.11ax20-HE0	173	5865		15.00	14.91
5.9GHz		177	5885		15.00	14.86
	802.11n40-HT0	167	5835	MCS0	15.00	14.92
	602.111 4 0-1110	175	5875	MCSU	15.00	14.86
	802.11ax40-HE0	167	5835	MCS0	15.00	14.90
	002.11ax40-HE0	175	5875	MCSU	15.00	14.91
	802.11ac80-VHT0	171	5855	MCS0	15.00	14.83
	802.11ax80-HE0	171	5855	MCS0	15.00	14.86
	802.11ac160-VHT0	163	5815	MCS0	15.00	14.99
	802.11ax160-HE0	163	5815	MCS0	15.00	14.85

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						1
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		21.00	20.99
	802.11b	6	2437	1Mbps	21.00	20.93
		11	2462		21.00	20.91
	802.11g	1	2412		19.75	19.63
		6	2437	6Mbps	21.00	20.83
		11	2462		18.75	18.60
	802.11n20-HT0	1	2412	MCS0	19.75	19.66
		6	2437		21.00	20.83
2.45GHz		11	2462		18.75	18.59
2.45GHZ		1	2412		19.75	19.64
	802.11ax20-HE0	6	2437	MCS0	21.00	20.92
		11	2462		18.75	18.64
		3	2422		16.25	16.13
	802.11n40-HT0	6	2437	MCS0	21.00	20.91
		9	2452		17.50	17.41
		3	2422		16.25	16.09
	802.11ax40-HE0	6	2437	MCS0	21.00	20.86
		9	2452		17.50	17.37

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		10.00	9.92
	802.11a	40	5200	6Mbps	10.00	9.86
	002.114	44	5220	Olvibps	10.00	9.90
		48	5240		10.00	9.91
	802.11n20-HT0	36	5180		10.00	9.91
		40	5200	MCS0	10.00	9.83
		44	5220	MCSU	10.00	9.85
		48	5240		10.00	9.86
	000 44 00 1150	36	5180		10.00	9.88
5.15-5.25 GHz		40	5200	MCS0	10.00	9.84
5.15-5.25 GHZ	802.11ax20-HE0	44	5220	IVICSU	10.00	9.90
		48	5240		10.00	9.88
	802.11n40-HT0	38	5190	MCS0	10.00	9.85
	002.111140-F110	46	5230	IVICSU	10.00	9.90
	902 11ov40 UE0	38	5190	MCSO	10.00	9.83
	802.11ax40-HE0	46	5230	MCS0	10.00	9.86
	802.11ac80-VHT0	42	5210	MCS0	10.00	9.88
	802.11ax80-HE0	42	5210	MCS0	10.00	9.92
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.99
	802.11ax160-HE0	50	5250	MCS0	10.00	9.92

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		10.00	9.85
	802.11a	56	5280	6Mbps	10.00	9.85
	002.11d	60	5300	Givibps	10.00	9.88
		64	5320		10.00	9.84
	802.11n20-HT0	52	5260		10.00	9.93
		56	5280	MCS0	10.00	9.90
		60	5300	IVICOU	10.00	9.86
		64	5320		10.00	9.88
5.25-5.35 GHz		52	5260		10.00	9.87
3.23-3.33 GHZ	802.11ax20-HE0	56	5280	MCS0	10.00	9.85
	002.11ax20-11L0	60	5300	IVICSO	10.00	9.91
		64	5320		10.00	9.89
	802.11n40-HT0	54	5270	MCS0	10.00	9.90
	002.111140-F110	62	5310	IVICOU	10.00	9.86
	802.11ax40-HE0	54	5270	MCS0	10.00	9.89
	002.11αX40-ΠΕ0	62	5310	IVICSU	10.00	9.91
	802.11ac80-VHT0	58	5290	MCS0	10.00	9.98
	802.11ax80-HE0	58	5290	MCS0	10.00	9.92

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		15.00	14.87
	802.11a	120	5600	6Mbps	15.00	14.91
		140	5700		15.00	14.90
		100	5500		15.00	14.90
	802.11n20-HT0	120	5600	MCS0	15.00	14.91
		140	5700		15.00	14.84
		100	5500		15.00	14.92
	802.11ax20-HE0	120	5600	MCS0	15.00	14.87
		140	5700		15.00	14.80
		102	5510		15.00	14.87
	802.11n40-HT0	118	5590	MCS0	15.00	14.90
	802.111140-F110	134	5670		15.00	14.92
5.6GHz		142	5710		15.00	14.89
		102	5510		15.00	14.83
	000 11 ov 40 LIFO	118	5590	MCS0	15.00	14.87
	802.11ax40-HE0	134	5670	MCSU	15.00	14.85
		142	5710		15.00	14.86
		106	5530		15.00	14.99
	802.11ac80-VHT0	122	5610	MCS0	15.00	14.95
		138	5690	<u> </u>	15.00	14.96
		106	5530		15.00	14.85
	802.11ax80-HE0	122	5610	MCS0	15.00	14.92
		138	5690]	15.00	14.86
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.98
	802.11ax160-HE0	114	5570	MCS0	15.00	14.88

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			Aux			
Mode	Mode	Mode Channel Frequency (MHz)		Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		15.50	15.35
	802.11a	157	5785	6Mbps	15.50	15.38
		165	5825		15.50	15.33
	802.11n20-HT0	149	5745		15.50	15.38
		157	5785	MCS0	15.50	15.37
		165	5825		15.50	15.35
		149	5745		15.50	15.37
5.8GHz	802.11ax20-HE0	157	5785	MCS0	15.50	15.42
		165	5825		15.50	15.39
	802.11n40-HT0	151	5755	MCS0	15.50	15.33
	ου2. Ι ΙΙΙ 4 υ - Π Ι υ	159	5795	IVICSU	15.50	15.38
	902 11av40 HE0	151	5755	MCSO	15.50	15.41
	802.11ax40-HE0	159	5795	MCS0	15.50	15.37
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.48
	802.11ax80-HE0	155	5775	MCS0	15.50	15.41

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			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		17.50	17.42
	802.11a	173	5865	6Mbps	17.50	17.41
		177	5885		17.50	17.34
	802.11n20-HT0	169	5845		17.50	17.37
		173	5865	MCS0	17.50	17.42
		177	5885		17.50	17.37
	802.11ax20-HE0	169	5845		17.50	17.36
		173	5865	MCS0	17.50	17.34
5.9GHz		177	5885		17.50	17.41
	802.11n40-HT0	167	5835	MCS0	17.50	17.37
	002.111140-Π10	175	5875	MCSU	17.50	17.39
	802.11ax40-HE0	167	5835	MCS0	17.50	17.36
	002.11ax40-nE0	175	5875	IVICSU	17.50	17.37
	802.11ac80-VHT0	171	5855	MCS0	17.50	17.37
	802.11ax80-HE0	171	5855	MCS0	17.50	17.41
	802.11ac160-VHT0	163	5815	MCS0	17.50	17.49
	802.11ax160-HE0	163	5815	MCS0	17.50	17.40

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Main Max. Rated Avg. Average Frequency Band Mode Channel Data Rate Power + Max. power (MHz) Tolerance (dBm) (dBm) 1 5955 7.00 6.88 802.11ax20-HE0 45 MCS₀ 6175 7.00 6.84 93 6415 7.00 6.89 3 5965 10.00 9.83 MCS0 802.11ax40-HE0 43 6165 10.00 9.91 U-NII-5 10.00 91 6405 9.85 6.2GHz 7 5985 13.00 12.85 MCS₀ 802.11ax80-HE0 39 6145 13.00 12.90 87 6385 13.00 12.86 15 13.50 13.49 6025 802.11ax160-HE0 MCS₀ 13.50 13.47 47 6185 79 6345 13.50 13.46 Main Max. Rated Avg. Average Frequency Channel Data Rate Power + Max. power Band Mode (MHz) Tolerance (dBm) (dBm) 7.00 97 6435 6.90 802.11ax20-HE0 105 6475 MCS0 7.00 6.84 113 6515 7.00 6.84 U-NII-6 99 6445 10.00 9.87 802.11ax40-HE0 MCS₀ 6.5GHz 107 6485 10.00 9.86 103 6465 13.00 12.83 802.11ax80-HE0 MCS₀ 119 12.85 6545 13.00

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111

802.11ax160-HE0

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6505

MCS₀

13.50

13.45



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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.89
	802.11ax20-HE0	149	6695	MCS0	7.00	6.88
		181	6855]	7.00	6.91
		115	6525		10.00	9.84
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.90
_		179	6845]	10.00	9.85
6.7GHz		135	6625		13.00	12.84
	802.11ax80-HE0	151	6705	MCS0	13.00	12.91
		167	6785]	13.00	12.87
	902 11 ov160 UE0	143	6665	MCCO	13.50	13.44
	802.11ax160-HE0	175	6825	MCS0	13.50	13.46
			Main			
Band	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	6.91
		233	7115		7.00	6.87
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.91
7.0GHz	302.11dA+011L0	227	7085	141000	10.00	9.83
7.00112		183	6865	_	13.00	12.84
	802.11ax80-HE0	199	6945	MCS0	13.00	12.88
		215	7025		13.00	12.85
	802.11ax160-HE0	207	6985	MCS0	13.50	13.46

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	6.88
	802.11ax20-HE0	45	6175	MCS0	7.00	6.89
		93	6415]	7.00	6.83
		3	5965		10.00	9.83
	802.11ax40-HE0	43	6165	MCS0	10.00	9.91
U-NII-5		91	6405		10.00	9.86
6.2GHz		7	5985		13.00	12.92
	802.11ax80-HE0	39	6145	MCS0	13.00	12.86
		87	6385		13.00	12.85
		15	6025		13.50	13.49
	802.11ax160-HE0	47	6185	MCS0	13.50	13.42
		79	6345		13.50	13.45
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.89
	802.11ax20-HE0	105	6475	MCS0	7.00	6.87
		113	6515		7.00	6.86
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.82
6.5GHz	002.11ax40-11LU	107	6485	IVICOU	10.00	9.84
	802.11ax80-HE0	103	6465	MCS0	13.00	12.86
	002.11ax00-11L0	119	6545		13.00	12.84
	802.11ax160-HE0	111	6505	MCS0	13.50	13.45

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.91
	802.11ax20-HE0	149	6695	MCS0	7.00	6.87
		181	6855		7.00	6.90
		115	6525		10.00	9.88
	802.11ax40-HE0	147	6685	MCS0	10.00	9.89
U-NII-7		179	6845		10.00	9.87
6.7GHz		135	6625		13.00	12.86
	802.11ax80-HE0	151	6705	MCS0	13.00	12.89
-		167	6785		13.00	12.84
	000 44 400 1150	143	6665	14000	13.50	13.47
	802.11ax160-HE0		6825	MCS0	13.50	13.49
		•	Aux			
Band	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	6.90
		233	7115		7.00	6.87
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.92
7.0GHz	002.11aA+0-11LU	227	7085	IVICOU	10.00	9.87
7.00112		183	6865]	13.00	12.88
	802.11ax80-HE0	199	6945	MCS0	13.00	12.84
		215	7025		13.00	12.87
	802.11ax160-HE0	207	6985	MCS0	13.50	13.49

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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		8.62		7.66		7.62	
BR/EDR	CH 39	2441	10.50	9.06	9.50	8.12	9.50	8.08	
	CH 78	2480		9.27		8.23		8.19	

6.4 BLE

Mode	Channel	+ Ma. 2402 2440 2480 Frequency (MHz) Max.	(GFSK			
iviode	Charline		Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402		7.34			
BLE_1M	CH 19	2440	9	7.77			
	CH 39	2480		7.88			
Mode	Channel	Frequency	GFSK				
iviode	Charline	(nannal · · ·		Average Output Power (dBm)			
	CH 00	2402		6.14			
BLE_2M	CH 19	2440	9	6.53			
	CH 39	2480		6.62			

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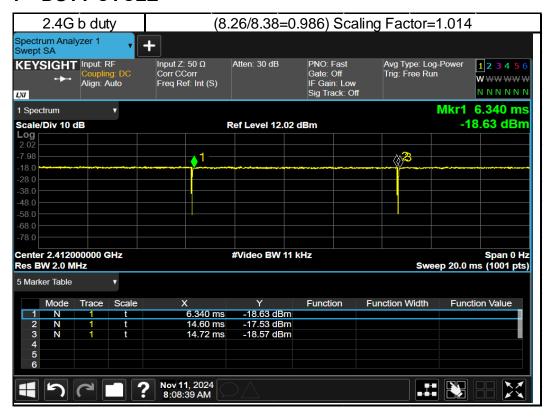
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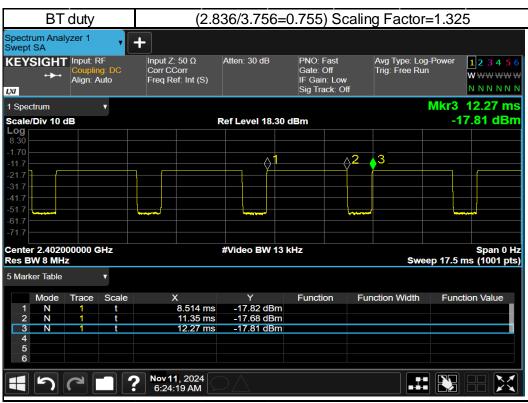


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DUTY CYCLE





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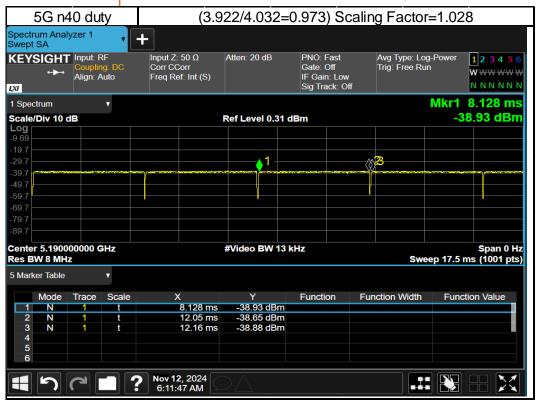
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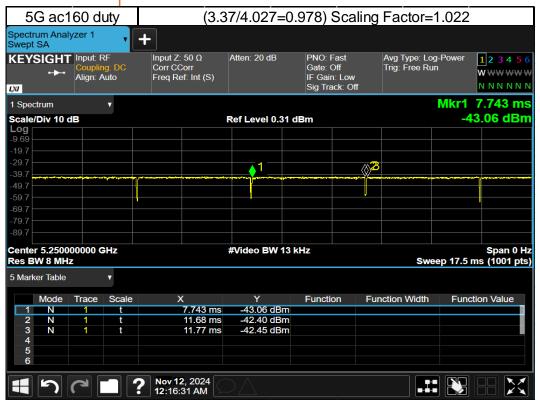
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SUMMARY OF RESULTS

8.1 **Decision rules**

Reported measurement data comply with Test Methodology in section 1.1.

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

8.2 **Summary of SAR Results**

WLAN

Notebook mode

Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Bana	7 attorna	1 contorr	(mm)	Ondinio	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	.5
WLAN 802.11b	Main	Bottom Surface	0	1	2412	21.00	20.99	1.01	100.23%	0.253	0.257	001
WLAN 802.11b	Main	Bottom Surface	0	6	2437	21.00	20.98	1.01	100.46%	0.227	0.231	-
WLAN 802.11b	Main	Bottom Surface	0	11	2462	21.00	20.90	1.01	102.33%	0.186	0.193	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
WLAN 802.11n(40M) 5.2G	Main	Bottom Surface	0	46	5230	21.00	20.96	1.03	100.93%	0.020	0.021	002
WEAR 802.1 III(40W) 5.2G	ividii i	Bottom Sunace	0	40	3230			1.03	100.93 /6	0.020	0.021	002
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11n(40M) 5.3G	Main	Bottom Surface	0	54	5270	19.50	19.49	1.03	100.23%	0.027	0.028	003
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	138	5690	21.00	20.98	1.02	100.46%	0.042	0.043	004
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.8G	Main	Bottom Surface	0	155	5775	21.00	20.94	1.02	101.39%	0.046	0.048	005
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
WLAN 802.11n(40M) 5.9G	Main	Bottom Surface	0	167	5835	21.00	20.99	1.03	100.23%	0.086	0.089	006
WLAN 802.11n(40M) 5.9G	Main	Bottom Surface	0	175	5875	21.00	20.97	1.03	100.69%	0.074	0.077	-
Band	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)	ID
WLAN 802.11b	Aux	Bottom Surface	0	1	2412	21.00	20.92	1.01	101.86%	0.069	0.071	-
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	21.00	20.97	1.01	100.69%	0.071	0.072	-
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	21.00	20.99	1.01	100.23%	0.077	0.072	007
Band	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)	ID
Bluetooth(GFSK)	Aux	Bottom Surface	0	00	2402	10.50	8.62	1.33	154.17%	0.002	0.004	-
Bluetooth(GFSK)	Aux	Bottom Surface	0	39	2441	10.50	9.06	1.33	139.32%	0.004	0.007	_
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	10.50	9.27	1.33	132.74%	0.007	0.007	008
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	21.00	20.93	1.03	101.62%	0.029	0.030	009
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	ID
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface	0	54	5270	21.00	20.99	1.03	100.23%	0.018	0.019	010
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	106	5530	19.25	19.21	1.02	100.93%	0.101	0.104	-
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	122	5610	20.00	19.94	1.02	101.39%	0.086	0.089	-
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	138	5690	20.00	19.99	1.02	100.23%	0.128	0.131	011
			Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
Band	Antenna	Position	(mm)	Channel	(MHz)	Tolerance (dBm)	(dBm)		Scaling	Measured	Reported	
Band WLAN 802.11ac(80M) 5.8G	Antenna Aux	Position Bottom Surface		155	(MHz) 5775	Tolerance (dBm) 20.00	(dBm) 19.99	1.02	100.23%	Measured 0.113	Reported 0.116	012
			(mm)		` '	,	, ,	Ů	_	0.113		012 ID

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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台灣檢驗科技股份有限公司



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Tablet mode

WLAN 802-116	Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
WLAN 802 11b Main Top Edge 0 1 2412 17.50 17.49 1.01 100.20% 0.009 0.0				(mm)		(IVIHZ)	Tolerance (dBm)		scaling	scaling	Measured	Reported	
WILAN 802 The Main Roth Edge 0 1 2412 17.50 17.40 1.01 100.22% 0.050 0.036 0.036 WILAN 802 The Main Right Edge 0 1 2412 17.50 17.40 1.01 100.22% 0.050 0.036 0.036 WILAN 802 The Main Right Edge 0 1 2412 17.50 17.40 1.01 100.22% 0.050 0.036 0.036 0.036 WILAN 802 The Main Right Edge 0 1 2412 17.50 17.40 1.01 100.22% 0.050 0.036 0.036 0.036 0.036 WILAN 802 The Main Right Edge 0 0 1 2412 17.50 17.40 1.01 100.22% 0.050 0.036 0.0	WLAN 802.11b	Main	Back Surface	0	1	2412	17.50	17.49	1.01	100.23%	0.259	0.263	-
WLAN 902-11h Main Right Edge 0 1 2412 17.50 17.48 1.01 100.29% 0.984 0.984 WLAN 902-11h Main Right Edge 0 11 2412 17.50 17.48 1.01 100.29% 0.588 0.974 WLAN 902-11h Main Right Edge 0 1 2412 17.50 17.48 1.01 100.29% 0.588 0.974 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.588 0.974 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.588 0.974 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.014 0.014 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.042 0.043 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.042 0.043 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.042 0.043 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.042 0.043 WLAN 902-11h Main Right Edge 0 50 5250 12.50 12.49 1.02 100.29% 0.014 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.29% 0.014 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.29% 0.014 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.49 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0 58 5250 12.50 12.50 12.40 1.02 100.23% 0.019 0.014 WLAN 902-11h Main Right Edge 0	WLAN 802.11b	Main	Top Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.009	0.009	-
WLAN 902.11b Main Right Edge 0 11 2482 17.50 17.66 1.01 100.93% 0.889 0.910	WLAN 802.11b	Main	Bottom Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.035	0.036	-
Wilson Main Right Edge* D 1 2412 17.50 17.49 1.01 100.23% 0.988 0.974	WLAN 802.11b	Main	Right Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.968	0.984	014
Band	WLAN 802.11b	Main	Right Edge		11	2462	17.50	17.46	1.01	100.93%	0.889	0.910	-
Milan Band Antenna Position Channel Freq. Net Channel Freq. Net Channel Freq. Net Channel Reported Reported Reported Net Net	WLAN 802.11b	Main	Right Edge*	0	1	2412	17.50	17.49	1.01	100.23%	0.958	0.974	
Main Back Surface 0 50 5250 12.50 12.49 1.02 100.23% 0.146 0.150	Band	Antenna	Position		Channel		Power + Max.	Avg. Power					ID
WLAN 802.11ac(160M) 5.2G Main Botton Edge 0 50 5250 12.50 12.40 1.02 100.23% 0.014 0.014				` ′		, ,	` '		, ,	, and the second			
WLAN 802.11ac(160M) 5.2G Main Bottom Edge 0 50 5250 12.50 12.49 1.02 100.23% 0.042 0.043 0.042 0.043 0.042 0.043 0.044 0.043 0.044 0.043 0.044 0.0	. ,								-				-
WLAN 802.11ac(160M) 5.2G Main Right Edge 0 50 5250 12.50 12.49 1.02 100.23% 1.160 1.188	, ,												-
WILAN 802.11ac(160M) 5.2G Main Right Edge* D S0 S250 12.50 12.49 1.02 100.23% 1.090 1.117	. ,												-
Band	. ,												015
Band	WLAN 802.11ac(160M) 5.2G	Main	Right Edge*	0	50	5250	12.50	12.49	1.02	100.23%	1.090	1.117	-
WILAN 802.11ac(80M) 5.3G Main Back Surface 0 58 5290 12.50 12.49 1.02 100.23% 0.150 0.154	Band	Antenna	Position		Channel		Power + Max.	Avg. Power					ID
WLAN 802.11ac(80M) 5.3G Main Top Edge 0 58 5290 12.50 12.49 1.02 100.23% 0.011 0.011				(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scarrig	Scanny	Measured	Reported	
WLAN 802.11ac(80M) 5.3G Main Bottom Edge 0 58 5290 12.50 12.49 1.02 100.23% 0.039 0.040	WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	12.50	12.49	1.02	100.23%	0.150	0.154	-
WILAN 802.11ac(80M) 5.3G Main Right Edge 0 58 5290 12.50 12.49 1.02 100.23% 1.120 1.147	WLAN 802.11ac(80M) 5.3G	Main	Top Edge	0	58	5290	12.50	12.49	1.02	100.23%	0.011	0.011	-
MILAN 802.11ac(80M) 5.3G Main Right Edge* 0 58 5290 12.50 12.49 1.02 100.23% 1.070 1.096	WLAN 802.11ac(80M) 5.3G	Main	Bottom Edge	0	58	5290	12.50	12.49	1.02	100.23%	0.039	0.040	-
Band Antenna Position Distance (mm) Channel (mm) (MHz) (WLAN 802.11ac(80M) 5.3G	Main	Right Edge	0	58	5290	12.50	12.49	1.02	100.23%	1.120	1.147	016
Position Position Preq. (MHz) Power + Max. Tolerance (dBm) Freq. (dBm) Channel (dBm) Freq. (dBm) Channel (dBm) Freq. (dBm) Freq. (dBm) Channel (dBm) Freq. (dBm) Channel (dBm) Freq. (dBm) Channel (dBm) Channel (dBm) Freq. (dBm) Channel (dBm) Freq. (dBm) Channel (WLAN 802.11ac(80M) 5.3G	Main	Right Edge*	0	58	5290	12.50	12.49	1.02	100.23%	1.070	1.096	-
WLAN 802.11ac(160M) 5.6G Main Back Surface 0 114 5570 16.00 15.95 1.02 101.16% 0.144 0.149	Band	Antenna	Position		Channel		Power + Max.	Avg. Power					ID
WLAN 802.11ac(160M) 5.6G Main Bottom Edge 0 114 5570 16.00 15.95 1.02 101.16% 0.012 0.012	MII ANI DOO 44(4COM) E CC	Maia	Deals Confess		444	5570	` '		4.00	404.400/			
WLAN 802.11ac(160M) 5.6G Main Right Edge 0 114 5570 16.00 15.95 1.02 101.16% 0.039 0.040	. ,			-									-
WILAN 802.11ac(160M) 5.6G Main Right Edge 0 114 5570 16.00 15.95 1.02 101.16% 1.140 1.179	. , ,								-				-
WLAN 802.11ac(160M) 5.6G Main Right Edge* 0 114 5570 16.00 15.95 1.02 101.16% 1.090 1.127	. ,												
Band Antenna Position Distance (mm) Channel Freq. (MHz) Power + Max. Power + Max. Power + Max. Power + Max. Tolerance (dBm) Duty cycle scaling (dBm) Measured Reported Reported	. ,												017
Position Position Position Channel (mm) Channel (mm) Channel (mm) Power + Max. Tolerance (dBm) Channel (dBm) Scaling Scaling Power + Max. Tolerance (dBm) Scaling Power + Max. Tolerance (dBm) Scaling Power + Max. Tolerance (dBm) Power + Max.	WLAN 802.11ac(160M) 5.6G	Main	Right Edge*	0	114	55/0			1.02	101.16%	1.090	1.127	-
WLAN 802.11ac(80M) 5.8G Main Back Surface 0 155 5775 15.00 14.99 1.02 100.23% 0.139 0.142	Band	Antenna	Position		Channel		Power + Max.	Avg. Power					ID
WLAN 802.11ac(80M) 5.8G Main Top Edge 0 155 5775 15.00 14.99 1.02 100.23% 0.012 0.012 WLAN 802.11ac(80M) 5.8G Main Bottom Edge 0 155 5775 15.00 14.99 1.02 100.23% 0.047 0.048 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.150 1.178 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.150 1.178 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 WLAN 802.11ac(80M) 5.8G W	MI AN 000 44 - (0010 5 00	A4.1.	Death O. Cons		455	5775	` '		4.00	400.000/			
WLAN 802.11ac(80M) 5.8G Main Bottom Edge 0 155 5775 15.00 14.99 1.02 100.23% 0.047 0.048 WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.150 1.178 WLAN 802.11ac(80M) 5.8G Main Right Edge* 0 155 5775 15.00 14.99 1.02 100.23% 1.150 1.1178 Band Antenna Position Distance (mm) Freq. (MHz) Max. Rated Avg. Power Awa. Tolerance (dBm) Measured Avg. Power Scaling Averaged SAR over 1g (W/kg) Measured Reported Measured Reported Measured Reported Measured Reported	. ,												-
WLAN 802.11ac(80M) 5.8G Main Right Edge 0 155 5775 15.00 14.99 1.02 100.23% 1.150 1.178 WLAN 802.11ac(80M) 5.8G Main Right Edge* 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 Band Antenna Position Distance (mm) Channel (MHz) Freq. (MHz) Measured Avg. Power + Max. Tolerance (dBm) Duty cycle scaling (dBm) Averaged SAR over 1g (W/kg)	· ,								-				
WLAN 802.11ac(80M) 5.8G Main Right Edge* 0 155 5775 15.00 14.99 1.02 100.23% 1.090 1.117 Band Antenna Position Distance (mm) Channel Freq. (MHz) Power + Max. Rated Avg. Power + Max. Tolerance (dBm) Measured Avg. Power scaling (dBm) Duty cycle scaling (dBm) Averaged SAR over 1g (W/kg)	. ,												-
Band Antenna Position Distance (mm) Channel Freq. (MHz) Power + Max. Tolerance (dBm) Max. Rated Avg. Power tolerance (dBm) Duty cycle scaling Tolerance (dBm) Duty cycle scaling Measured Reported	, ,								_				019
Band Antenna Position Distance (mm) Channel (MHz) Power + Max Tolerance (dBm) (dBm) Avg. Power scaling Measured Reported	WLAN 802.11ac(80M) 5.8G	Main	Right Edge*	0	155	5//5			1.02	100.23%	1.090	1.117	
	Band	Antenna	Position		Channel		Power + Max.	Avg. Power					ID
VVE-PN 002. I TAU 100 W 3.50 WAIR DBCK SURBCE U 103 3013 13.00 14.59 1.02 100.23% 0.141 0.144	W/I ANI 902 11cc/150M) 5 00	Main	Pack Surface		162	E01E	` '	, ,	1.02	100 220/	<u> </u>		
WLAN 802.11ac(160M) 5.9G Main Top Edge 0 163 5815 15.00 14.99 1.02 100.23% 0.015 0.015	. ,												-
WLAN 802.11ac(180M) 5.9G Main Bottom Edge 0 163 5815 15.00 14.99 1.02 100.23% 0.042 0.043	. ,												-
WLAN 802.11ac(160M) 5.9G Main Right Edge 0 163 5815 15.00 14.99 1.02 100.23% 1.120 1.147 WLAN 802.11ac(160M) 5.9G Main Right Edge* 0 163 5815 15.00 14.99 1.02 100.23% 1.050 1.076	. ,												020

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Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Sund	7 uncontra	1 ootton	(mm)	Onamor	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11b	Aux	Back Surface	0	1	2412	21.00	20.99	1.01	100.23%	0.237	0.241	-
WLAN 802.11b	Aux	Top Edge	0	1	2412	21.00	20.99	1.01	100.23%	0.012	0.012	-
WLAN 802.11b	Aux	Bottom Edge	0	1	2412	21.00	20.99	1.01	100.23%	0.044	0.045	-
WLAN 802.11b	Aux	Left Edge	0	1	2412	21.00	20.99	1.01	100.23%	1.130	1.148	021
WLAN 802.11b	Aux	Left Edge	0	6	2437	21.00	20.93	1.01	101.62%	0.971	1.001	-
WLAN 802.11b	Aux	Left Edge*	0	1	2412	21.00	20.99	1.01	100.23%	1.060	1.077	-
Band	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	
Bluetooth(GFSK)	Aux	Back Surface	0	78	2480	10.50	9.27	1.33	132.74%	0.021	0.037	-
Bluetooth(GFSK)	Aux	Top Edge	0	78	2480	10.50	9.27	1.33	132.74%	0.002	0.004	-
Bluetooth(GFSK)	Aux	Bottom Edge	0	78	2480	10.50	9.27	1.33	132.74%	0.011	0.019	-
Bluetooth(GFSK)	Aux	Left Edge	0	00	2402	10.50	8.62	1.33	154.17%	0.073	0.149	-
Bluetooth(GFSK)	Aux	Left Edge	0	39	2441	10.50	9.06	1.33	139.32%	0.065	0.120	
Bluetooth(GFSK)	Aux	Left Edge*	0	78	2480	10.50	9.27	1.33	132.74%	0.077	0.135	022
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
			` '		, ,	Tolerance (dBm)	(dBm)	, ,		Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Aux	Back Surface	0	50	5250	10.00	9.99	1.02	100.23%	0.134	0.137	-
WLAN 802.11ac(160M) 5.2G	Aux	Top Edge	0	50	5250	10.00	9.99	1.02	100.23%	0.011	0.011	-
WLAN 802.11ac(160M) 5.2G	Aux	Bottom Edge	0	50	5250	10.00	9.99	1.02	100.23%	0.058	0.059	-
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge	0	50	5250	10.00	9.99	1.02	100.23%	1.110	1.137	023
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge*	0	50	5250	10.00	9.99	1.02	100.23%	1.050	1.076	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
						Tolerance (dBm)	(dBm)	-		Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Aux	Back Surface	0	58	5290	10.00	9.98	1.02	100.46%	0.127	0.130	-
WLAN 802.11ac(80M) 5.3G	Aux	Top Edge	0	58	5290	10.00	9.98	1.02	100.46%	0.009	0.009	-
WLAN 802.11ac(80M) 5.3G	Aux	Bottom Edge	0	58	5290	10.00	9.98	1.02	100.46%	0.056	0.057	-
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge	0	58	5290	10.00	9.98	1.02	100.46%	1.030	1.058	024
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge*	0	58	5290	10.00	9.98	1.02	100.46%	0.997	1.024	-
Band												
Dana	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
	Antenna Aux	Position Back Surface		Channel 114		Power + Max.	Avg. Power					ID -
			(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Aux	Back Surface Top Edge	(mm) 0	114	(MHz) 5570	Power + Max. Tolerance (dBm) 15.00	Avg. Power (dBm) 14.98	scaling 1.02	scaling 100.46%	Measured 0.120	Reported 0.123	
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux	Back Surface Top Edge Bottom Edge	(mm) 0 0	114 114 114	(MHz) 5570 5570 5570	Power + Max. Tolerance (dBm) 15.00 15.00	Avg. Power (dBm) 14.98 14.98	1.02 1.02 1.02	scaling 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054	Reported 0.123 0.008 0.055	-
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge	(mm) 0 0 0	114 114 114 114	(MHz) 5570 5570 5570 5570	Power + Max. Tolerance (dBm) 15.00 15.00 15.00	Avg. Power (dBm) 14.98 14.98 14.98	1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110	Reported 0.123 0.008 0.055 1.140	
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux	Back Surface Top Edge Bottom Edge	(mm) 0 0	114 114 114	(MHz) 5570 5570 5570	Power + Max. Tolerance (dBm) 15.00 15.00	Avg. Power (dBm) 14.98 14.98	1.02 1.02 1.02	scaling 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020	Reported 0.123 0.008 0.055	- - - 025
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge Left Edge*	(mm) 0 0 0 0 0 Distance	114 114 114 114 114	(MHz) 5570 5570 5570 5570 5570 5570 Freq.	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg. Power	1.02 1.02 1.02 1.02 1.02 1.02 Duty cycle	scaling 100.46% 100.46% 100.46% 100.46% 100.46% Power	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg)	025
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge Left Edge* Position	(mm) 0 0 0 0 0 0 Distance (mm)	114 114 114 114 114 114 Channel	(MHz) 5570 5570 5570 5570 5570 Freq. (MHz)	Power + Max Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg. Power (dBm)	1.02 1.02 1.02 1.02 1.02 1.02 Duty cycle scaling	scaling 100.46% 100.46% 100.46% 100.46% 100.46% Power scaling	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported	025
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge Left Edge* Position Back Surface	(mm) 0 0 0 0 0 Distance (mm)	114 114 114 114 114 114 Channel	(MHz) 5570 5570 5570 5570 5570 5570 Freq. (MHz)	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.60	Avg. Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg. Power (dBm)	scaling 1.02 1.02 1.02 1.02 1.02 1.02 Duty cycle scaling 1.02	scaling 100.46% 100.46% 100.46% 100.46% Power scaling 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported 0.141	- - 025 - ID
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(80M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Antenna Aux Aux	Back Surface Top Edge Bottom Edge Left Edge Left Edge* Position Back Surface Top Edge	(mm) 0 0 0 0 0 Distance (mm)	114 114 114 114 114 114 Channel	(MHz) 5570 5570 5570 5570 5570 5570 5770 Freq. (MHz) 5775 5775	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50	Avg. Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg. Power (dBm) 15.48	1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% Power scaling 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009	- - - 025 - ID
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.8G WLAN 802.11ac(80M) 5.8G WLAN 802.11ac(80M) 5.8G	Aux Aux Aux Aux Aux Aux Aux Antenna Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge*	(mm) 0 0 0 0 0 Distance (mm) 0 0	114 114 114 114 114 114 Channel 155 155	(MHz) 5570 5570 5570 5570 5570 5570 5570 5775 5775 5775	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50	Avg. Power (dBm) 14.98 14.98 14.98 14.98 Measured Avg. Power (dBm) 15.48 15.48	1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% Power scaling 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049	025 - ID
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.8G WLAN 802.11ac(80M) 5.8G WLAN 802.11ac(80M) 5.8G	Aux Aux Aux Aux Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux	Back Surface Top Edge Bottom Edge Left Edge Left Edge* Position Back Surface Top Edge Bottom Edge	(mm) 0 0 0 0 0 0 Distance (mm) 0 0	114 114 114 114 114 114 115 155 155	(MHz) 5570 5570 5570 5570 5570 5570 Freq. (MHz) 5775 5775 5775	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Power + Max. Power + Max.	Avg. Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg. Power (dBm) 15.48 15.48 15.48 15.48 Measured Avg. Power	scaling 1.02 1.02 1.02 1.02 1.02 1.02 Duty cycle scaling 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% Power scaling 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048 1.080 1.030 Averaged SAR	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049 1.109 1.058 over 1g (W/kg)	ID
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(80M) 5.8G	Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position	(mm) 0 0 0 0 0 Distance (mm) 0 Distance (mm)	114 114 114 114 114 114 115 155 155 155	(MHz) 5570 5570 5570 5570 5570 5570 5570 5775 5775 5775 5775 Freq. (MHz)	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg, Power (dBm) 14.98 14.98 14.98 14.98 14.98 Measured Avg, Power (dBm) 15.48 15.48 15.48 Measured Avg, Power (dBm)	scaling 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.0054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048 1.080 1.030 Averaged SAR	Reported 0.123 0.008 0.0055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049 1.109 1.058 over 1g (W/kg)	
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(80M) 5.8G	Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface	(mm) 0 0 0 0 0 0 0 Distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0	114 114 114 114 114 114 115 Channel 155 155 155 Channel	(MHz) 5570 5570 5570 5570 5570 5570 5570 557	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max.	Avg, Power (dBm) 14.98 14.98 14.98 14.98 14.98 14.98 Measured Avg, Power (dBm) 15.48 15.48 15.48 15.48 Measured Avg, Power (dBm) 17.49	scaling 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048 1.080 1.080 Averaged SAR Measured 0.153	Reported 0.123 0.008 0.0055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049 1.109 1.058 over 1g (W/kg) Reported	
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(160M) 5.8G WLAN 802.11ac(80M) 5.9G	Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Left Edge* Position Back Surface Top Edge Left Edge Left Edge Top Edge	(mm) 0 0 0 0 0 0 Distance (mm) Distance (mm)	114 114 114 114 114 114 115 155 155 155	(MHz) 5570 5570 5570 5570 5570 5570 5775 5775 5775 5775 5775 5775 5775 5785 5785 5785 5785 5785 5785 5785 5785 5785	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50	Avg, Power (dBm) 14.98 14.98 14.98 14.98 14.98 14.98 14.98 Measured (dBm) 15.48 15.48 15.48 Measured (dBm) 15.48 17.49	scaling 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048 1.080 1.030 Averaged SAR Measured 0.153 0.011	Reported 0.123 0.008 0.055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049 1.109 1.058 over 1g (W/kg) Reported 0.157 0.011	
WLAN 802.11ac(160M) 5.6G WLAN 802.11ac(80M) 5.8G	Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface Top Edge Bottom Edge Left Edge* Position Back Surface	(mm) 0 0 0 0 0 0 0 Distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0	114 114 114 114 114 114 115 Channel 155 155 155 Channel	(MHz) 5570 5570 5570 5570 5570 5570 5570 557	Power + Max. Tolerance (dBm) 15.00 15.00 15.00 15.00 15.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 15.50 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max.	Avg, Power (dBm) 14.98 14.98 14.98 14.98 14.98 14.98 Measured Avg, Power (dBm) 15.48 15.48 15.48 15.48 Measured Avg, Power (dBm) 17.49	scaling 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	scaling 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46% 100.46%	Measured 0.120 0.008 0.054 1.110 1.020 Averaged SAR Measured 0.137 0.009 0.048 1.080 1.080 Averaged SAR Measured 0.153	Reported 0.123 0.008 0.0055 1.140 1.047 over 1g (W/kg) Reported 0.141 0.009 0.049 1.109 1.058 over 1g (W/kg) Reported	

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

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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WLAN 6GHz

Notebook mode

MOTEROOK I	Houe													
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(14112)	Tolerance (dBm)	(dBm)	odanig	odanig	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	15	6025	13.50	13.49	1.03	100.23%	0.087	0.089	0.751	0.772	029
J-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	47	6185	13.50	13.47	1.03	100.69%	0.067	0.069	0.585	0.604	030
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Surface	0	79	6345	13.50	13.46	1.03	100.93%	0.063	0.065	0.57	0.590	
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			` ′		` ′	Tolerance (dBm)	(dBm)			Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface	0	111	6505	13.50	13.45	1.03	101.16%	0.040	0.042	0.318	0.330	031
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
						Tolerance (dBm)	· /	-	-	Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Surface	0	175	6825	13.50	13.46	1.03	100.93%	0.047	0.049	0.353	0.366	032
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(111112)	Tolerance (dBm)	(dBm)	Journal	oodg	Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Surface	0	207	6985	13.50	13.46	1.03	100.93%	0.079	0.082	0.592	0.613	033
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(111112)	Tolerance (dBm)	(dBm)	Journal	oodg	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	15	6025	13.50	13.49	1.03	100.23%	0.042	0.043	0.342	0.352	034
J-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Surface	0	79	6345	13.50	13.45	1.03	101.16%	0.026	0.027	0.211	0.219	035
Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface	0	111	6505	13.50	13.45	1.03	101.16%	0.046	0.048	0.357	0.371	036
Band	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 APD	W/m^2 (4cm^2)	ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaning	Scaling	Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	143	6665	13.50	13.47	1.03	100.69%	0.046	0.048	0.349	0.361	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Surface	0	175	6825	13.50	13.49	1.03	100.23%	0.048	0.049	0.378	0.389	037
Band	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/k		Estimated APD	ID	
			(1.411)		(11.112)	Tolerance (dBm)	(dBm)	Southing	odding	Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Bottom Surface	0	207	6985	13.50	13.49	1.03	100.23%	0.047	0.048	0.353	0.363	038

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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Tablet mode

Tablet IIIoa														
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
11 NIII E C 001 I= 000 44=/400ND	Main	Deels Confess	0	45	6025		(,	4.00	400.000/		Reported		Reported	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Back Surface	0	15		13.50	13.49	1.03	100.23%	0.138	0.142	0.755	0.776	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Top Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.003	0.003	0.011	0.011	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Bottom Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.012	0.012	0.072	0.074	
U-NII-5 6.2GHz 802.11ax(160M)	Main	Right Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.566	0.582	4.74	4.874	039
U-NII-5 6.2GHz 802.11ax(160M)	Main	Right Edge	0	47	6185	13.50	13.47	1.03	100.69%	0.589	0.609	4.71	4.866	040
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	Estimated APD Measured	W/m^2 (4cm^2)	ID
U-NII-6 6.5GHz 802.11ax(160M)	Main	Back Surface	0	111	6505	13.50	13.45	1.03	101.16%	0.143	0.148	0.784	0.814	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Top Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.002	0.002	0.011	0.011	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.011	0.011	0.076	0.079	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Right Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.598	0.621	4.48	4.650	041
0-1411-0 0.30112 002.11ax(100W)	IVIGIII	riight Eage	Ů		0303		101.10	1.05	101.1070	0.330	0.021	4.40	4.000	041
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	Estimated APD Measured	W/m^2 (4cm^2) Reported	ID
U-NII-7 6.7GHz 802.11ax(160M)	Main	Back Surface	0	175	6825	13.50	13.46	1.03	100.93%	0.137	0.142	0.762	0.789	-
U-NII-7 6.7GHz 802.11ax(160M)	Main	Top Edge	0	175	6825	13.50	13.46	1.03	100.93%	0.003	0.003	0.015	0.016	-
U-NII-7 6.7GHz 802.11ax(160M)	Main	Bottom Edge	0	175	6825	13.50	13.46	1.03	100.93%	0.013	0.013	0.089	0.092	-
U-NII-7 6.7GHz 802.11ax(160M)	Main	Right Edge	0	175	6825	13.50	13.46	1.03	100.93%	0.528	0.547	4.08	4.225	042
Band	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)		W/m^2 (4cm^2)	ID
U-NII-8 7.0GHz 802.11ax(160M)	Main	Back Surface	0	207	6985	13.50	13.46	1.03	100.93%	0.114	0.118	0.693	0.718	
U-NII-8 7.0GHz 802.11ax(160M)	Main		0	207	6985	13.50	13.46	1.03	100.93%	0.002	0.002	0.093	0.718	- :
		Top Edge												<u> </u>
U-NII-8 7.0GHz 802.11ax(160M)	Main	Bottom Edge	0	207	6985	13.50	13.46	1.03	100.93%	0.008	0.008	0.071	0.074	-
U-NII-8 7.0GHz 802.11ax(160M)	Main	Right Edge	0	207	6985	13.50	13.46	1.03	100.93%	0.479	0.496	3.76	3.893	043
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	Estimated APD Measured	W/m^2 (4cm^2) Reported	ID
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Back Surface	0	15	6025	13.50	13.49	1.03	100.23%	0.093	0.096	0.579	0.595	
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Top Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.002	0.002	0.014	0.014	-
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Bottom Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.014	0.014	0.103	0.106	-
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Left Edge	0	15	6025	13.50	13.49	1.03	100.23%	0.510	0.524	2.86	2.941	044
U-NII-5 6.2GHz 802.11ax(160M)	Aux	Left Edge	0	79	6345	13.50	13.45	1.03	101.16%	0.796	0.826	4.31	4.473	045
Band	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) Reported		W/m^2 (4cm^2) Reported	ID
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Back Surface	0	111	6505	13.50	13.45	1.03	101.16%	0.105	0.109	0.63	0.654	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Top Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.003	0.003	0.021	0.022	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.018	0.019	0.114	0.118	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Left Edge	0	111	6505	13.50	13.45	1.03	101.16%	0.941	0.977	5.07	5.262	046
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Left Edge*	0	111	6505	13.50	13.45	1.03	101.16%	0.928	0.963	4.82	5.003	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	Estimated APD Measured	W/m^2 (4cm^2)	ID
11 NII 7 O 701 I- 000 11 110 11	Α.	Deel C 1	_	470	000=			4.00	400 0007		Reported		Reported	
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Back Surface	0	175	6825	13.50	13.49	1.03	100.23%	0.114	0.117	0.682	0.701	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Top Edge	0	175	6825	13.50	13.49	1.03	100.23%	0.005	0.005	0.028	0.029	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Bottom Edge	0	175	6825	13.50	13.49	1.03	100.23%	0.021	0.022	0.127	0.131	<u> </u>
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Left Edge	0	143	6665	13.50	13.47	1.03	100.69%	0.926	0.957	4.26	4.401	-
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Left Edge	0	175	6825	13.50	13.49	1.03	100.23%	1.070	1.100	5.75	5.913	047
U-NII-7 6.7GHz 802.11ax(160M)	Aux	Left Edge*	0 Distance	175 Channel	6825 Freq. (MHz)	13.50 Max. Rated Avg. Power + Max.	13.49 Measured Avg. Power	1.03 Duty cycle scaling	100.23% Power scaling	1.010 Averaged SAR	1.039 over 1g (W/kg)	5.61 Estimated APD	5.769 W/m^2 (4cm^2)	- ID
Band	Antenna	Position		Chamer			(dBm)	Joanny	ocamiy					
Band	Antenna	Position	(mm)	Chame	(IVITIZ)	Tolerance (dBm)	(dbm)			Measured	Reported	Measured	Reported	
Band U-NII-8 7.0GHz 802.11ax(160M)	Antenna Aux	Position Back Surface		207	6985	Tolerance (dBm) 13.50	13.49	1.03	100.23%	0.102	0.105	Measured 0.636	Reported 0.654	-
			(mm)		` '	, ,	, ,	1.03	100.23%					
U-NII-8 7.0GHz 802.11ax(160M)	Aux	Back Surface	(mm) 0	207	6985	13.50	13.49			0.102	0.105	0.636	0.654	
U-NII-8 7.0GHz 802.11ax(160M) U-NII-8 7.0GHz 802.11ax(160M)	Aux Aux	Back Surface Top Edge	(mm) 0 0	207	6985 6985	13.50 13.50	13.49 13.49	1.03	100.23%	0.102 0.003	0.105 0.003	0.636 0.023	0.654 0.024	

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Note:

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

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Summary of PD Results

				Channel	Freq.		Measured Avg. Power	Tune-up	Duty cycle	Measurement	PD result(4cm)				
Band	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)	Main	Right Edge	2	15	6025	13.50	13.49	100.23%	1.03	1.55	4.460	7.109	3.530	5.627	075
U-NII-5	Main	Right Edge	2	47	6185	13.50	13.47	100.69%	1.03	1.55	4.550	7.286	3.220	5.156	076
WLAN 6E 802.11ax(160M) U-NII-6	Main	Right Edge	2	111	6505	13.50	13.45	101.16%	1.03	1.55	3.200	5.148	2.530	4.070	077
WLAN 6E 802.11ax(160M) U-NII-7	Main	Right Edge	2	175	6825	13.50	13.46	100.93%	1.03	1.55	3.360	5.393	2.560	4.109	078
WLAN 6E 802.11ax(160M) U-NII-8	Main	Right Edge	2	207	6985	13.50	13.46	100.93%	1.03	1.55	2.290	3.675	1.900	3.050	079
											PD result(4cm)				
					_	Max. Rated Avg.	Measured	_				PD res	ult(4cm)		
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (W/m^2)	PD res Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
	Antenna Aux	Position Left Edge		Channel 15		Power + Max.	Avg. Power				Total psPD	Reported Total psPD	Measured Normal psPD	Normal psPD	ID 080
Band			(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	scaling	uncertainty	Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Normal psPD (W/m^2)	
Band WLAN 6E 802.11ax(160M)	Aux	Left Edge	(mm) 2	15	(MHz) 6025	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling 100.23%	scaling 1.03	uncertainty 1.55	Total psPD (W/m^2) 2.170	Reported Total psPD (W/m^2) 3.459	Measured Normal psPD (W/m^2)	Normal psPD (W/m^2) 3.044	080
Band WLAN 6E 802.11ax(160M) U-NII-5 WLAN 6E 802.11ax(160M)	Aux	Left Edge	(mm) 2 2	15 79	(MHz) 6025 6345	Power + Max. Tolerance (dBm) 13.50	Avg. Power (dBm) 13.49	Scaling 100.23% 101.16%	1.03 1.03	1.55 1.55	Total psPD (W/m^2) 2.170 3.770	Reported Total psPD (W/m^2) 3.459 6.065	Measured Normal psPD (W/m^2) 1.910 3.080	Normal psPD (W/m^2) 3.044 4.955	080

Note:

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

8.4 Reporting statements of conformity

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

8.5 Conclusion

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

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

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SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 **Simultaneous Transmission Scenarios:**

Simultaneous Transmission configurations
WLAN 2.4GHz Main + BT Aux
WLAN 2.4GHz Main + WLAN 2.4GHz Aux
WLAN 5GHz Main + BT Aux
WLAN 5GHz Main + WLAN 5GHz Aux
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux
WLAN 6GHz Main + BT Aux
WLAN 6GHz Main + WLAN 6GHz Aux
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux

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

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

Notebook mode

		FCC Reported SAR								Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		2	3	4	5	7	8	9	2+3	4+5	2+7	4+7	4+5+7	7+8	8+9	7+8+9
Exposure	Position	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main		Summed							
		1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)							
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)								
ottom Surface	0	0.257	0.078	0.089	0.131	0.013	0.089	0.049	0.335	0.220	0.270	0.102	0.233	0.102	0.138	0.151

Tablet mode

					FCC Reported SAR				Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		2	3	4	5	7	8	9	2+3	4+5	2+7	4+7	4+5+7	7+8	8+9	7+8+9
Exposure I	Position	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed							
		1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)							
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)								
Back Surface	0	0.263	0.241	0.154	0.157	0.037	0.148	0.117	0.504	0.311	0.300	0.191	0.348	0.185	0.265	0.302
Top Edge	0	0.009	0.012	0.015	0.011	0.004	0.003	0.005	0.021	0.026	0.013	0.019	0.030	0.007	800.0	0.012
Bottom Edge	0	0.036	0.045	0.048	0.059	0.019	0.013	0.022	0.081	0.107	0.055	0.067	0.126	0.032	0.035	0.054
Right Edge	0	0.984		1.188			0.621	0.533	0.984	1.188	0.984	1.188	1.188	0.621	1.154	1.154
Left Edge	0		1.148		1.178	0.149		1.100	1.148	1.178	0.149	0.149	1.327	0.149	1.100	1.249

9.4 Conclusion

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

Equipment List												
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration							
SPEAG	Data acquisition Electronics	DAE4	856	Apr/22/2024	Apr/21/2025							
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Apr/18/2024	Apr/17/2025							
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9616	Mar/12/2024	Mar/11/2025							
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025							
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/24/2024	Jan/23/2025							
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/15/2024	Aug/14/2025							
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/15/2024	Aug/14/2025							
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/17/2024	Jan/16/2025							
SPEAG	Dielectric Assessment Kit	DAKS-3.5	0004	Jan/22/2024	Jan/21/2025							
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025							
Keysight	EXA Signal Analyzer	N9010B	MY59071571	Jun/04/2024	Jun/03/2025							
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025							
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025							
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration no required							
R&S	Power Meter	NRX	102034	Dec/13/2023	Dec/12/2024							
R&S	Power Sensor	NRP18S	101974	Nov/21/2023	Nov/20/2024							
R&S	Power Sensor	NRP18S	109066	Oct/28/2024	Oct/27/2025							
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration no required							
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration no required							
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration no required							
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration no required							
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration no required							
TECPEL	Digital thermometer	DTM-303A	TP131515	May/23/2024	May/22/2025							

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11 UNCERTAINTY BUDGET

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

А	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%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	80
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%	90
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	00
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	90
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	00
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	œ
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	œ
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	90
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	00
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
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%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	00
Liquid permittivity (mea.)	1.68%	N	1	1	0.64	0.43	1.08%	0.72%	М
Liquid Conductivity (mea.)	2.06%	N	1	1	0.6	0.49	1.24%	1.01%	М
Combined standard uncertainty		RSS					11.83%	11.77%	
Expant uncertainty (95% confidence interval), K=2							23.66%	23.54%	

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

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	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, 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%	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%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√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%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
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.)	2.52%	N	1	1	0.64	0.43	1.61%	1.08%	М
Liquid Conductivity (mea.)	1.98%	N	1	1	0.6	0.49	1.19%	0.97%	М
Combined standard uncertainty		RSS					11.59%	11.50%	
Expant uncertainty (95% confidence interval), K=2							23.18%	23.00%	

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

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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	•	•	•			•		
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	•		•					
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

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

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12 SAR MEASUREMENT RESULTS

Date: 2024/11/11

ID: 001

Report No.: TESA2410000664EN

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.014 Medium parameters used: f = 2412 MHz; $\sigma = 1.802 \text{ S/m}$; $\epsilon_r = 40.215$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(7.76, 7.48, 7.6) @ 2412 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.351 W/kg

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

Reference Value = 2.157 V/m; Power Drift = 0.02 dB

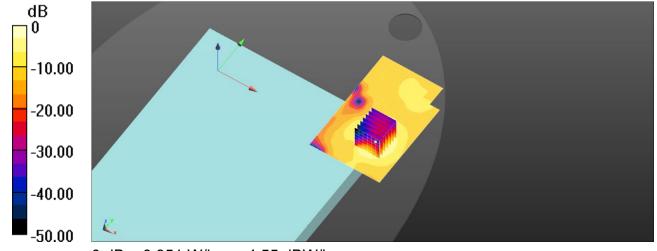
Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.132 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 59.8%

Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.351 W/kg = -4.55 dBW/kg

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Date: 2024/11/12

ID: 002

Report No.: TESA2410000664EN

WLAN 802.11n(40M) 5.2G Body Bottom Surface CH 46 0mm Main

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.028 Medium parameters used: f = 5230 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon_r = 36.54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5230 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

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

Reference Value = 2.923 V/m; Power Drift = 0.02 dB

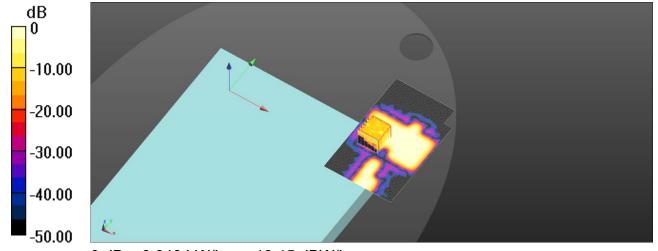
Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 q) = 0.020 W/kq; SAR(10 q) = 0.00553 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 0.0484 W/kg



0 dB = 0.0484 W/kq = -13.15 dBW/kq

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Date: 2024/11/12

ID: 003

Report No.: TESA2410000664EN

WLAN 802.11n(40M) 5.3G Body Bottom Surface CH 54 0mm Main

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.028 Medium parameters used: f = 5270 MHz; σ = 4.8 S/m; ϵ_r = 36.492; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5270 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.197 W/kg

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

Reference Value = 2.623 V/m; Power Drift = -0.04 dB

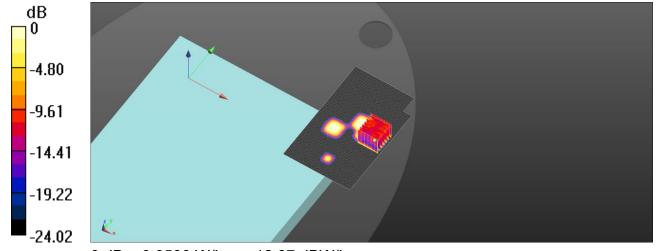
Peak SAR (extrapolated) = 0.0960 W/kg

SAR(1 q) = 0.027 W/kq; SAR(10 q) = 0.00885 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.0580 W/kg



0 dB = 0.0580 W/kq = -12.37 dBW/kq

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Date: 2024/11/14

ID: 004

Report No.: TESA2410000664EN

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

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5690 MHz; σ = 5.232 S/m; ε_r = 35.988; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.89, 4.71, 4.77) @ 5690 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.269 W/kg

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

Reference Value = 3.156 V/m; Power Drift = 0.05 dB

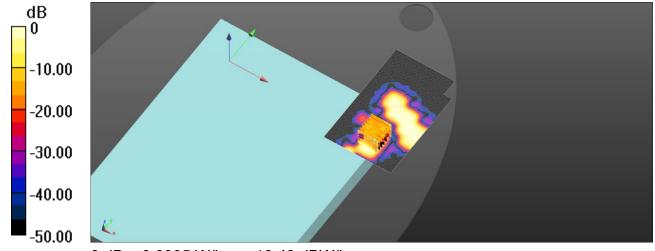
Peak SAR (extrapolated) = 0.290 W/kg

SAR(1 q) = 0.042 W/kq; SAR(10 q) = 0.010 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 48.1%

Maximum value of SAR (measured) = 0.0905 W/kg



0 dB = 0.0905 W/kq = -10.43 dBW/kq

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Date: 2024/11/14

ID: 005

Report No.: TESA2410000664EN

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5775 MHz; $\sigma = 5.319 \text{ S/m}$; $\varepsilon_r = 35.886$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5775 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.194 W/kg

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

Reference Value = 3.339 V/m; Power Drift = 0.04 dB

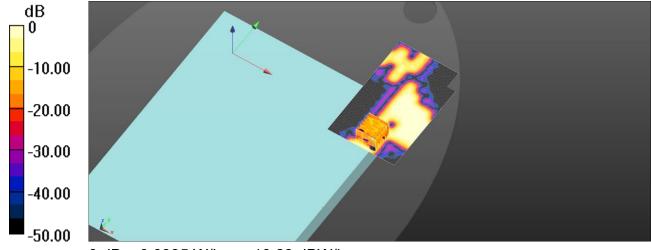
Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 q) = 0.046 W/kq; SAR(10 q) = 0.013 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 0.0935 W/kg



0 dB = 0.0935 W/kq = -10.29 dBW/kq

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Date: 2024/11/14

ID: 006

Report No.: TESA2410000664EN

WLAN 802.11n(40M) 5.9G Body Bottom Surface CH 167 0mm Main

Communication System: WLAN 5G; Frequency: 5835 MHz; Duty cycle= 1:1.028 Medium parameters used: f = 5835 MHz; $\sigma = 5.383 \text{ S/m}$; $\varepsilon_r = 35.814$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5835 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

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

Reference Value = 2.971 V/m; Power Drift = 0.04 dB

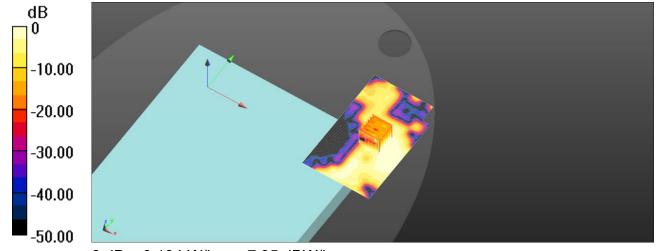
Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 q) = 0.086 W/kq; SAR(10 q) = 0.030 W/kq

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kq = -7.35 dBW/kq

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Date: 2024/11/11

ID: 007

Report No.: TESA2410000664EN

WLAN 802.11b Body Bottom Surface CH 11 0mm Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.014 Medium parameters used: f = 2462 MHz; $\sigma = 1.846 \text{ S/m}$; $\epsilon_r = 40.167$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(7.76, 7.48, 7.6) @ 2462 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.102 W/kg

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

Reference Value = 2.427 V/m; Power Drift = 0.01 dB

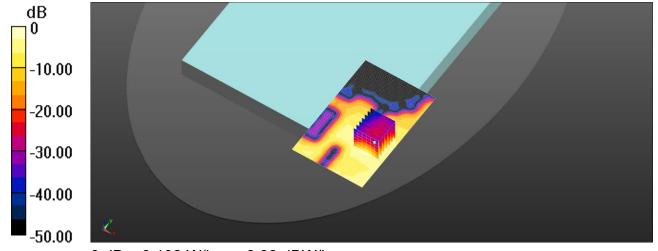
Peak SAR (extrapolated) = 0.140 W/kg

SAR(1 q) = 0.077 W/kq; SAR(10 q) = 0.039 W/kq

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.110 W/kg



0 dB = 0.102 W/kq = -9.93 dBW/kq

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Date: 2024/11/11

ID: 008

Report No.: TESA2410000664EN

Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Aux

Communication System: Bluetooh; Frequency: 2480 MHz; Duty cycle= 1:1.325

Medium parameters used: f = 2480 MHz; $\sigma = 1.865 \text{ S/m}$; $\epsilon_r = 40.146$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(7.76, 7.48, 7.6) @ 2480 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0140 W/kg

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

Reference Value = 2.012 V/m; Power Drift = 0.01 dB

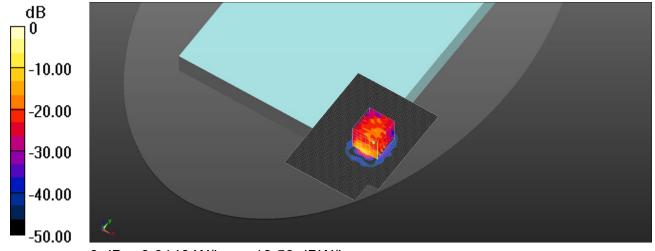
Peak SAR (extrapolated) = 0.0420 W/kg

SAR(1 g) = 0.00749 W/kg; SAR(10 g) = 0.00328 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) = 0.0108 W/kg



0 dB = 0.0140 W/kg = -18.53 dBW/kg

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Date: 2024/11/12

ID: 009

Report No.: TESA2410000664EN

WLAN 802.11n(40M) 5.2G Body Bottom Surface CH 46 0mm Aux

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.028 Medium parameters used: f = 5230 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon_r = 36.54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5230 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.104 W/kg

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

Reference Value = 2.594 V/m; Power Drift = 0.05 dB

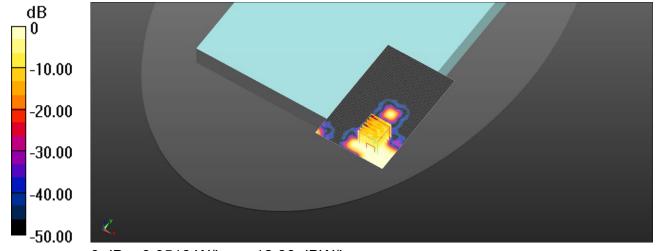
Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 q) = 0.029 W/kq; SAR(10 q) = 0.011 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 67.4%

Maximum value of SAR (measured) = 0.0518 W/kg



0 dB = 0.0518 W/kq = -12.86 dBW/kq

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Date: 2024/11/12

ID: 010

Report No.: TESA2410000664EN

WLAN 802.11n(40M) 5.3G Body Bottom Surface CH 54 0mm Aux

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.028 Medium parameters used: f = 5270 MHz; σ = 4.8 S/m; ϵ_r = 36.492; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(5.49, 5.39, 5.43) @ 5270 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

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

Reference Value = 3.537 V/m; Power Drift = 0.07 dB

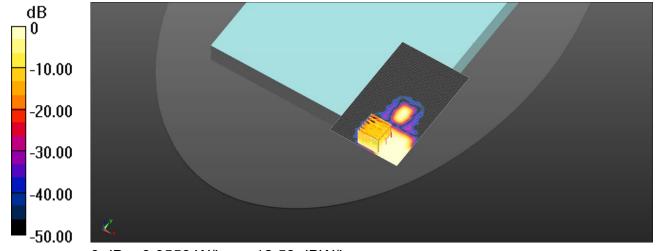
Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 q) = 0.018 W/kq; SAR(10 q) = 0.00376 W/kq

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 43.2%

Maximum value of SAR (measured) = 0.0559 W/kg



0 dB = 0.0559 W/kg = -12.53 dBW/kg

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Date: 2024/11/14

ID: 011

Report No.: TESA2410000664EN

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

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5690 MHz; σ = 5.232 S/m; ε_r = 35.988; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5690 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

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

Reference Value = 4.239 V/m; Power Drift = 0.02 dB

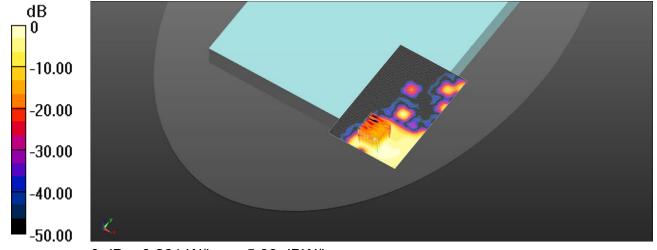
Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 q) = 0.128 W/kq; SAR(10 q) = 0.043 W/kq

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

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kq = -5.83 dBW/kq

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Date: 2024/11/14

ID: 012

Report No.: TESA2410000664EN

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5775 MHz; $\sigma = 5.319 \text{ S/m}$; $\varepsilon_r = 35.886$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.89, 4.71, 4.77) @ 5775 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.407 W/kg

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

Reference Value = 3.124 V/m; Power Drift = 0.04 dB

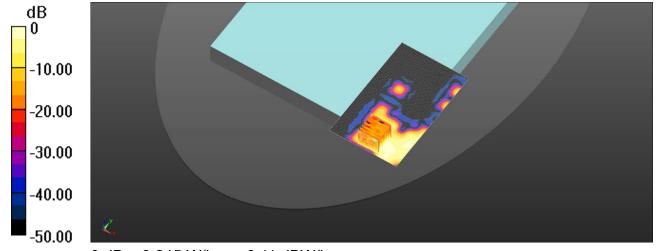
Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 q) = 0.113 W/kq; SAR(10 q) = 0.036 W/kq

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.245 W/kg



0 dB = 0.245 W/kq = -6.11 dBW/kq

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Date: 2024/11/14

ID: 013

Report No.: TESA2410000664EN

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

Communication System: WLAN 5G; Frequency: 5855 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5855 MHz; $\sigma = 5.406$ S/m; $\varepsilon_r = 35.79$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5855 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.224 W/kg

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

Reference Value = 2.747 V/m; Power Drift = -0.04 dB

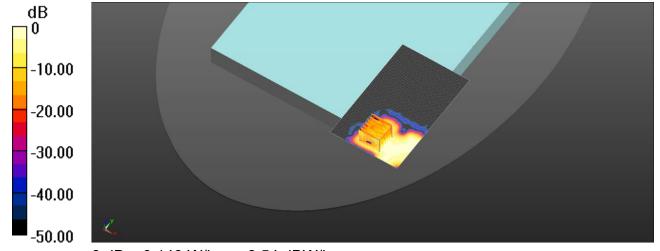
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 q) = 0.055 W/kq; SAR(10 q) = 0.018 W/kq

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kq = -8.54 dBW/kq

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Date: 2024/11/11

ID: 014

Report No.: TESA2410000664EN

WLAN 802.11b Body Right Edge CH 1 0mm Main

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.014 Medium parameters used: f = 2412 MHz; $\sigma = 1.802 \text{ S/m}$; $\epsilon_r = 40.215$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(7.76, 7.48, 7.6) @ 2412 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.71 W/kg

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

Reference Value = 16.65 V/m; Power Drift = 0.06 dB

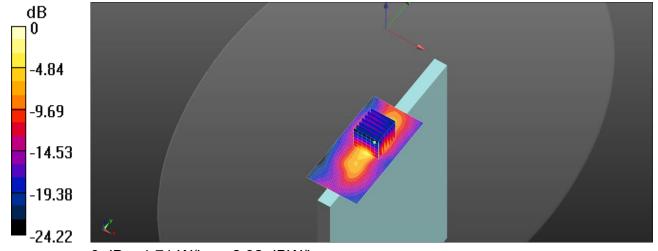
Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 q) = 0.968 W/kq; SAR(10 q) = 0.395 W/kq

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 34.6%

Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.71 W/kq = 2.32 dBW/kq

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Date: 2024/11/12

ID: 015

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.2G Body Right Edge CH 50 0mm Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5250 MHz; σ = 4.781 S/m; ε_r = 36.516; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5250 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.21 W/kg

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

Reference Value = 10.32 V/m; Power Drift = -0.13 dB

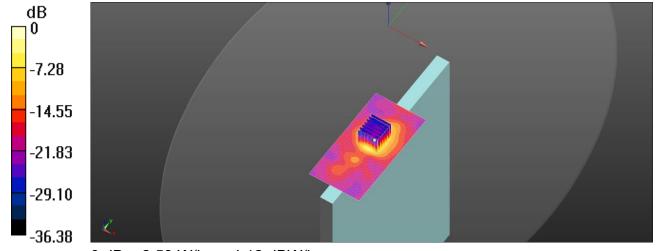
Peak SAR (extrapolated) = 5.31 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.316 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.58 W/kg = 4.12 dBW/kg

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ID: 016

Report No.: TESA2410000664EN

WLAN 802.11ac(80M) 5.3G Body Right Edge CH 58 0mm Main

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5290 MHz; σ = 4.821 S/m; ε_r = 36.468; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5290 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.17 W/kg

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

Reference Value = 9.952 V/m; Power Drift = -0.03 dB

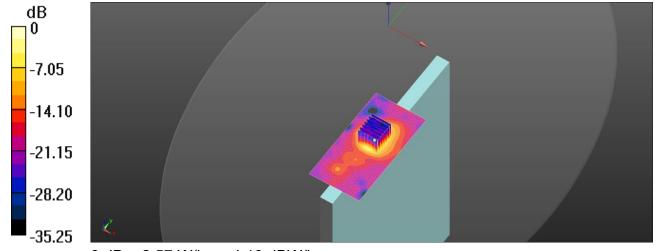
Peak SAR (extrapolated) = 5.33 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.315 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 2.57 W/kg



0 dB = 2.57 W/kq = 4.10 dBW/kq

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Date: 2024/11/13

ID: 017

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.6G Body Right Edge CH 114 0mm Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5570 MHz; $\sigma = 5.107 \text{ S/m}$; $\varepsilon_r = 36.132$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.82, 4.64, 4.68) @ 5570 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.02 W/kg

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

Reference Value = 16.35 V/m; Power Drift = -0.01 dB

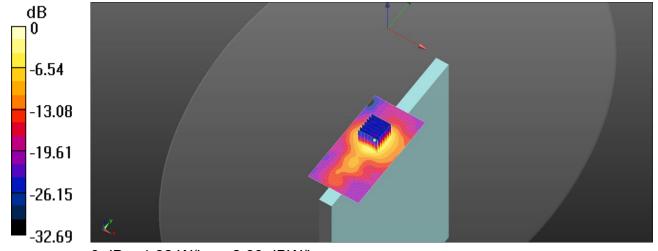
Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.436 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 1.82 W/kg



0 dB = 1.82 W/kg = 2.60 dBW/kg

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Date: 2024/11/14

ID: 019

Report No.: TESA2410000664EN

WLAN 802.11ac(80M) 5.8G Body Right Edge CH 155 0mm Main

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5775 MHz; σ = 5.319 S/m; ε_r = 35.886; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.89, 4.71, 4.77) @ 5775 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.60 W/kg

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

Reference Value = 15.53 V/m; Power Drift = 0.19 dB

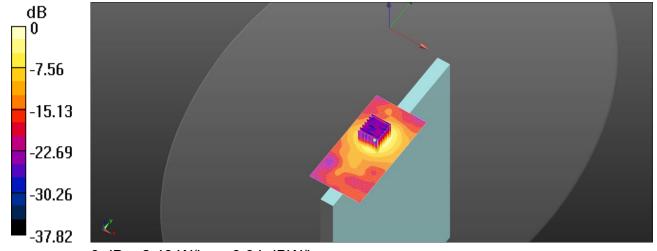
Peak SAR (extrapolated) = 5.90 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.436 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 2.48 W/kg



0 dB = 2.48 W/kq = 3.94 dBW/kq

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Date: 2024/11/14

ID: 020

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.9G Body Right Edge CH 163 0mm Main

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5815 MHz; σ = 5.361 S/m; ε_r = 35.838; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.89, 4.71, 4.77) @ 5815 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

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

Reference Value = 15.73 V/m; Power Drift = 0.17 dB

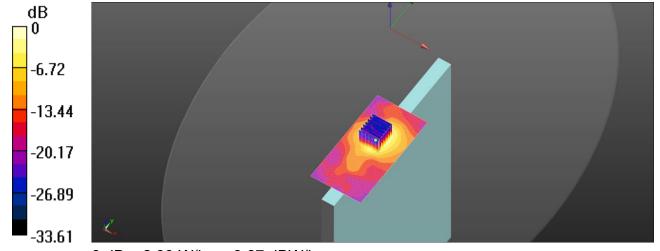
Peak SAR (extrapolated) = 5.62 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.423 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg = 3.67 dBW/kg

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Date: 2024/11/11

ID: 021

Report No.: TESA2410000664EN

WLAN 802.11b_Body_Left Edge_CH 1_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.014 Medium parameters used: f = 2412 MHz; $\sigma = 1.802$ S/m; $\epsilon_r = 40.215$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(7.76, 7.48, 7.6) @ 2412 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.62 W/kg

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

Reference Value = 20.68 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.464 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 33.3%

Maximum value of SAR (measured) = 2.03 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.68 V/m; Power Drift = 0.11 dB

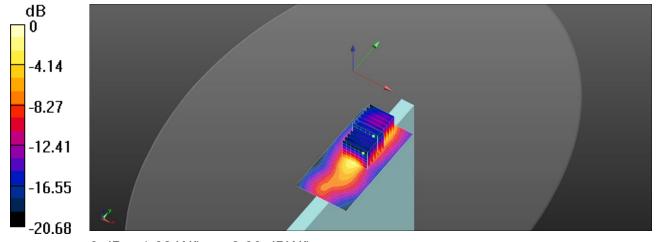
Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.445 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.62 W/kg = 2.09 dBW/kg

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Date: 2024/11/11

ID: 022

Report No.: TESA2410000664EN

Bluetooth(GFSK)_Body_Left Edge_CH 78_0mm_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.325

Medium parameters used: f = 2480 MHz; $\sigma = 1.865 \text{ S/m}$; $\epsilon_r = 40.146$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(7.76, 7.48, 7.6) @ 2480 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.116 W/kg

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

Reference Value = 4.002 V/m; Power Drift = 0.03 dB

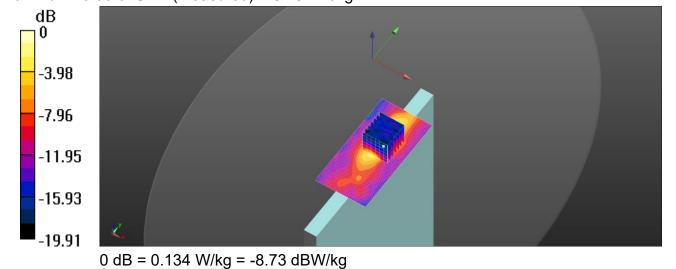
Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 q) = 0.077 W/kq; SAR(10 q) = 0.030 W/kq

Smallest distance from peaks to all points 3 dB below = 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 35.3%

Maximum value of SAR (measured) = 0.134 W/kg



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Date: 2024/11/12

ID: 023

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.2G Body Left Edge CH 50 0mm Aux

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5250 MHz; σ = 4.781 S/m; ε_r = 36.516; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(5.49, 5.39, 5.43) @ 5250 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.44 W/kg

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

Reference Value = 2.773 V/m; Power Drift = 0.01 dB

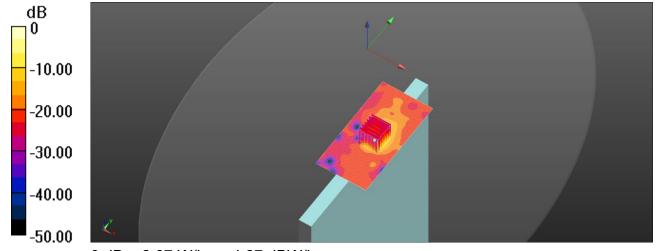
Peak SAR (extrapolated) = 5.42 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.242 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 2.67 W/kg



0 dB = 2.67 W/kq = 4.27 dBW/kq

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Date: 2024/11/12

ID: 024

Report No.: TESA2410000664EN

WLAN 802.11ac(80M) 5.3G Body Left Edge CH 58 0mm Aux

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5290 MHz; σ = 4.821 S/m; ε_r = 36.468; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(5.49, 5.39, 5.43) @ 5290 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.11 W/kg

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

Reference Value = 2.151 V/m; Power Drift = 0.01 dB

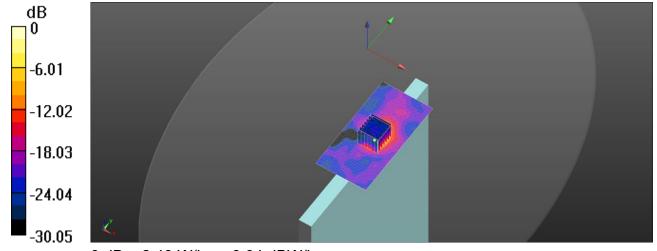
Peak SAR (extrapolated) = 5.06 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.227 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 2.48 W/kg



0 dB = 2.48 W/kq = 3.94 dBW/kq

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Date: 2024/11/13

ID: 025

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.6G_Body_Left Edge_CH 114_0mm_Aux

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5570 MHz; $\sigma = 5.107$ S/m; $\epsilon_r = 36.132$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(4.82, 4.64, 4.68) @ 5570 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

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

Reference Value = 5.088 V/m; Power Drift = 0.18 dB

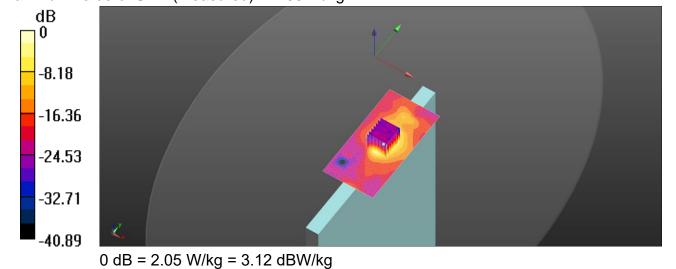
Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.313 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 2.05 W/kg



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Date: 2024/11/14

ID: 027

Report No.: TESA2410000664EN

WLAN 802.11ac(80M) 5.8G Body Left Edge CH 155 0mm Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5775 MHz; $\sigma = 5.319 \text{ S/m}$; $\varepsilon_r = 35.886$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5775 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

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

Reference Value = 4.827 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.343 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 1.76 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.827 V/m; Power Drift = -0.03 dB

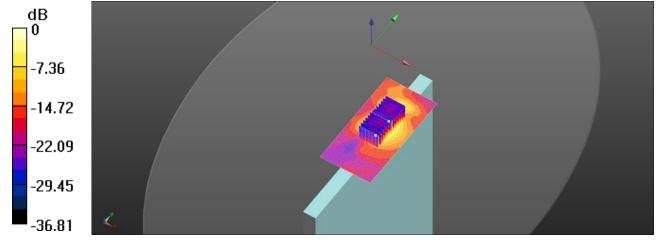
Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 0.958 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

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Date: 2024/11/14

ID: 028

Report No.: TESA2410000664EN

WLAN 802.11ac(160M) 5.9G_Body_Left Edge_CH 163_0mm_Aux

Communication System: WLAN 5G; Frequency: 5815 MHz; Duty cycle= 1:1.022 Medium parameters used: f = 5815 MHz; $\sigma = 5.361$ S/m; $\epsilon_r = 35.838$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5815 MHz; Calibrated: 2024/4/18

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

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

Reference Value = 4.858 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.40 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.360 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 1.90 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.858 V/m; Power Drift = -0.03 dB

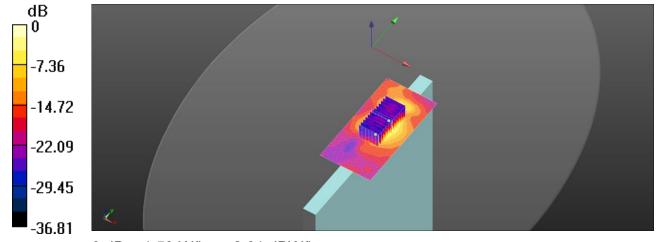
Peak SAR (extrapolated) = 4.00 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.307 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

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ID: 029

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.54	5.623	35.507

Hardware Setup

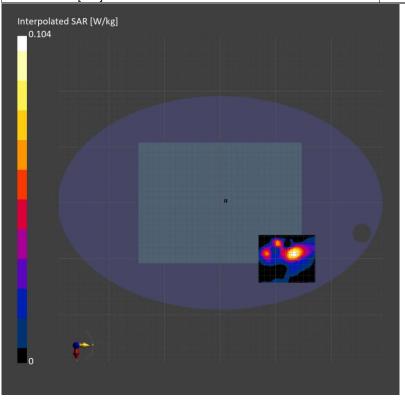
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.078	0.087
psSAR8g [W/kg]	0.032	0.038
psSAR10g [W/kg]	0.029	0.033
psPDab (4.0cm2, sq) [W/m2]		0.751
Power Drift [dB]	0.08	0.03
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		10.8



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ID: 030

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6185.0, 47	5.54	5.811	35.315

Hardware Setup

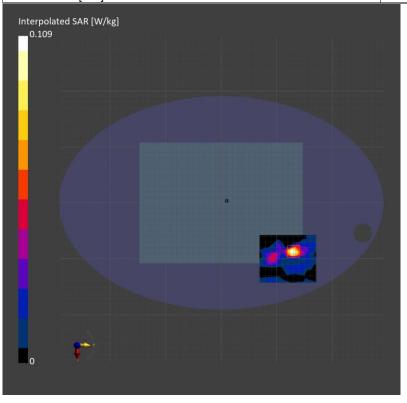
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.081	0.067
psSAR8g [W/kg]	0.029	0.029
psSAR10g [W/kg]	0.026	0.027
psPDab (4.0cm2, sq) [W/m2]		0.585
Power Drift [dB]	-0.11	-0.14
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		7.5



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ID: 031

Report No.: TESA2410000664EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.54	6.194	34.931

Hardware Setup

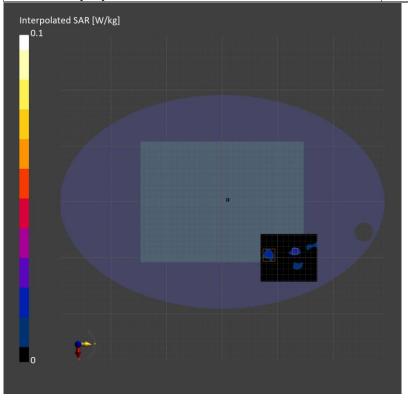
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan		
Date	2024-11-15	2024-11-15		
psSAR1g [W/kg]	0.019	0.040		
psSAR8g [W/kg]	0.005	0.016		
psSAR10g [W/kg]	0.004	0.014		
psPDab (4.0cm2, sq) [W/m2]		0.318		
Power Drift [dB]	-0.09	0.08		
M2/M1 [%]		58.1		
Dist 3dB Peak [mm]		7.1		



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ID: 032

Report No.: TESA2410000664EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 175_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6825.0, 175	5.54	6.574	34.547

Hardware Setup

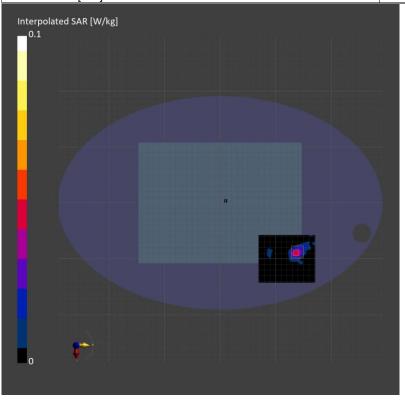
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.036	0.047
psSAR8g [W/kg]	0.013	0.018
psSAR10g [W/kg]	0.011	0.015
psPDab (4.0cm2, sq) [W/m2]		0.353
Power Drift [dB]	0.04	-0.08
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		7.7



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ID: 033

Report No.: TESA2410000664EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.72	6.76	34.355

Hardware Setup

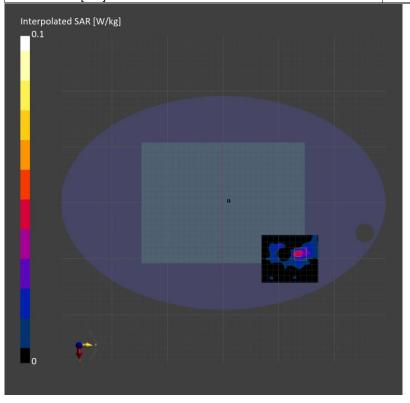
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-16	2024-11-16
psSAR1g [W/kg]	0.037	0.079
psSAR8g [W/kg]	0.013	0.030
psSAR10g [W/kg]	0.012	0.026
psPDab (4.0cm2, sq) [W/m2]		0.592
Power Drift [dB]	-0.08	-0.05
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		6.9



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ID: 034

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.54	5.623	35.507

Hardware Setup

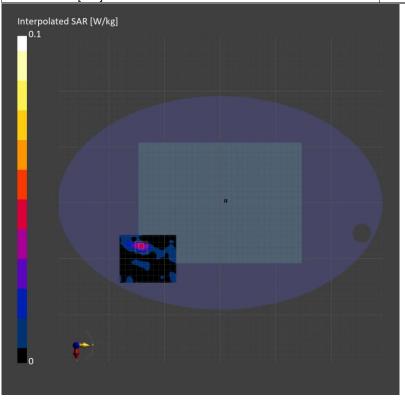
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

•	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.032	0.042
psSAR8g [W/kg]	0.012	0.017
psSAR10g [W/kg]	0.010	0.015
psPDab (4.0cm2, sq) [W/m2]		0.342
Power Drift [dB]	0.02	-0.01
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		7.8



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ID: 035

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2GHz 802.11ax(160M)_Body_Bottom Surface_CH 79_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6345.0, 79	5.54	6.002	35.123

Hardware Setup

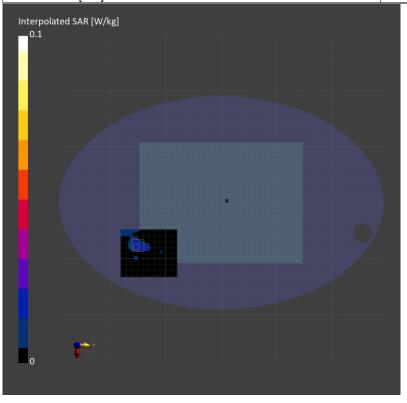
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.018	0.026
psSAR8g [W/kg]	0.007	0.011
psSAR10g [W/kg]	0.007	0.009
psPDab (4.0cm2, sq) [W/m2]		0.211
Power Drift [dB]	0.06	-0.02
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		7.8



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Report No.: TESA2410000664EN

Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.54	6.194	34.931

Hardware Setup

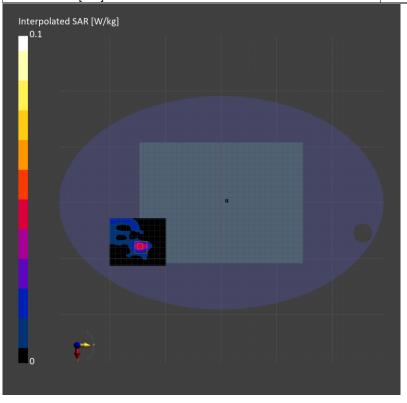
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.038	0.046
psSAR8g [W/kg]	0.014	0.018
psSAR10g [W/kg]	0.013	0.016
psPDab (4.0cm2, sq) [W/m2]		0.357
Power Drift [dB]	0.09	-0.07
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		7.4



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Report No.: TESA2410000664EN

Measurement Report_U-NII-7 6.7GHz 802.11ax(160M)_Body_Bottom Surface_CH 175_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6825.0, 175	5.54	6.574	34.547

Hardware Setup

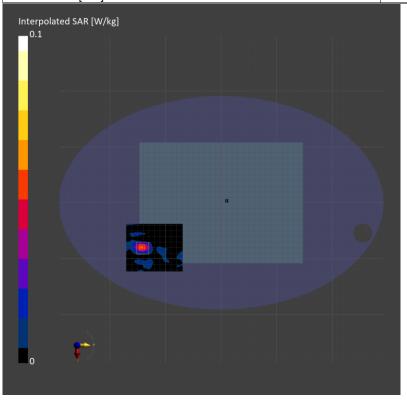
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.047	0.048
psSAR8g [W/kg]	0.017	0.019
psSAR10g [W/kg]	0.014	0.017
psPDab (4.0cm2, sq) [W/m2]		0.378
Power Drift [dB]	-0.11	0.07
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		7.6



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ID: 038

Report No.: TESA2410000664EN

Measurement Report_U-NII-8 7.0GHz 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section,	Position, Test Distance	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL	[mm]	Number	Factor	[S/m]	Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.72	6.76	34.355

Hardware Setup

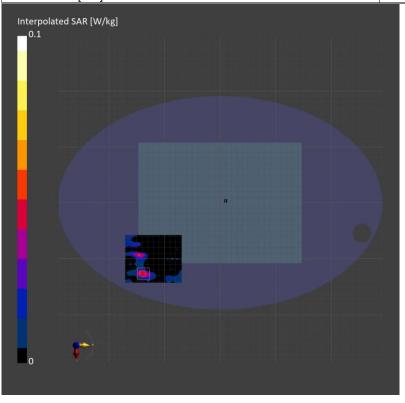
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2024-04-18	DAE4 Sn856. 2024-04-22

Scans Setup

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-16	2024-11-16
psSAR1g [W/kg]	0.040	0.047
psSAR8g [W/kg]	0.013	0.018
psSAR10g [W/kg]	0.011	0.016
psPDab (4.0cm2, sq) [W/m2]		0.353
Power Drift [dB]	0.06	0.03
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		5.5



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ID: 039

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2G 802.11ax(160M)_Body_Right Edge_CH 15_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

,	Position, Test Distance [mm]	Frequency [MHz],Channel		,	TSL
TSL		Number	Factor	[S/m]	Permittivity
Flat, HSL	Right Edge, 0.00	6025.0, 15	5.54	5.623	35.507

Hardware Setup

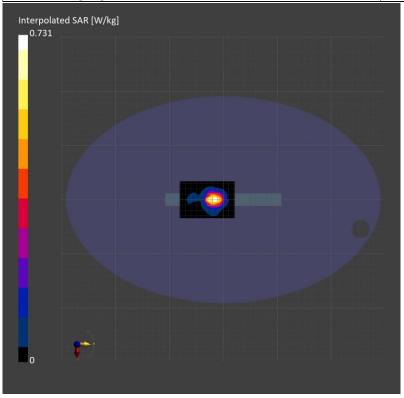
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.528	0.566
psSAR8g [W/kg]	0.221	0.237
psSAR10g [W/kg]	0.198	0.213
psPDab (4.0cm2, sq) [W/m2]		4.74
Power Drift [dB]	-0.17	-0.08
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		5.4



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Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2G 802.11ax(160M)_Body_Right Edge_CH 47_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance [mm]	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL		Number	Factor	[S/m]	Permittivity
Flat, HSL	Right Edge, 0.00	6185.0, 47	5.54	5.811	35.315

Hardware Setup

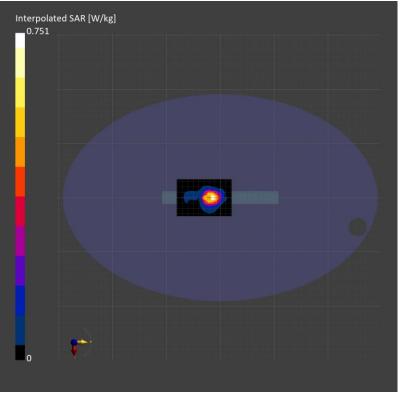
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.522	0.589
psSAR8g [W/kg]	0.217	0.235
psSAR10g [W/kg]	0.195	0.212
psPDab (4.0cm2, sq) [W/m2]		4.71
Power Drift [dB]	-0.08	-0.03
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		5.9



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Report No.: TESA2410000664EN

Measurement Report_U-NII-6 6.5G 802.11ax(160M)_Body_Right Edge_CH 111_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number	,	TSL Permittivitv
	Right Edge, 0.00	6505.0, 111		34.931

Hardware Setup

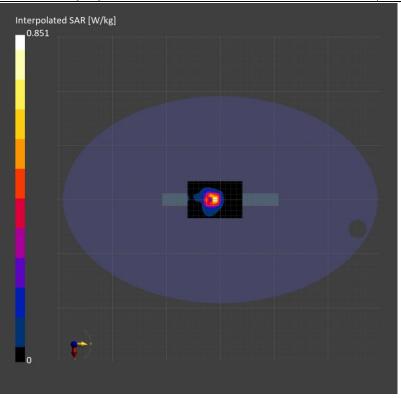
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.554	0.598
psSAR8g [W/kg]	0.211	0.224
psSAR10g [W/kg]	0.190	0.200
psPDab (4.0cm2, sq) [W/m2]		4.48
Power Drift [dB]	-0.13	0.09
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		6.2



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ID: 042

Report No.: TESA2410000664EN

Measurement Report_U-NII-7 6.7G 802.11ax(160M)_Body_Right Edge_CH 175_0mm_Main

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section.	Position, Test Distance [mm]	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	. comon, root Diotaines [imm]	Number		,	Permittivity
Flat, HSL	Right Edge, 0.00	6825.0, 175	5.54	6.574	34.547

Hardware Setup

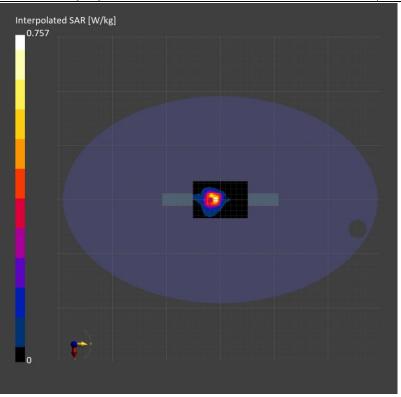
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.520	0.528
psSAR8g [W/kg]	0.205	0.204
psSAR10g [W/kg]	0.185	0.182
psPDab (4.0cm2, sq) [W/m2]		4.08
Power Drift [dB]	-0.05	0.13
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		6.2



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ID: 043

Report No.: TESA2410000664EN

Measurement Report_U-NII-8 7.0G 802.11ax(160M)_Body_Right Edge_CH 207_0mm_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz],Channel Number		,	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6985.0, 207	5.72	6.76	34.355

Hardware Setup

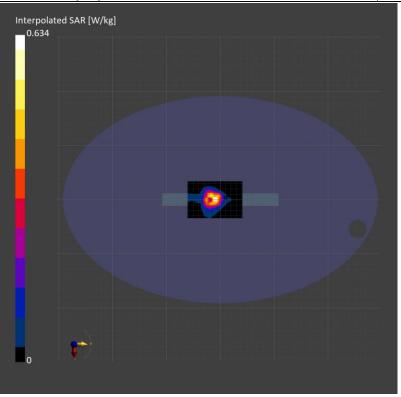
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-16	2024-11-16
psSAR1g [W/kg]	0.465	0.479
psSAR8g [W/kg]	0.188	0.188
psSAR10g [W/kg]	0.171	0.169
psPDab (4.0cm2, sq) [W/m2]		3.76
Power Drift [dB]	0.18	0.14
M2/M1 [%]		49.1
Dist 3dB Peak [mm]		6.5



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ID: 044

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2G 802.11ax(160M)_Body_Left Edge_CH 15_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance [mm]	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL		Number		[S/m]	Permittivity
Flat, HSL	Left Edge, 0.00	6025.0, 15	5.54	5.623	35.507

Hardware Setup

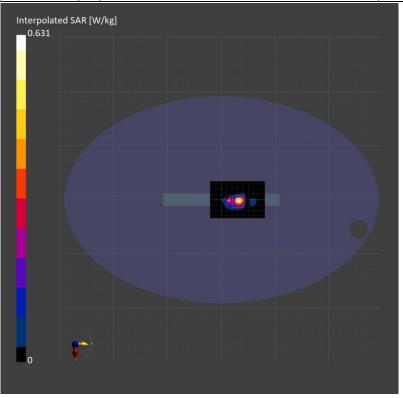
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
	Alea Scall	
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.409	0.510
psSAR8g [W/kg]	0.128	0.143
psSAR10g [W/kg]	0.110	0.122
psPDab (4.0cm2, sq) [W/m2]		2.86
Power Drift [dB]	-0.02	-0.06
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		5.5



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ID: 045

Report No.: TESA2410000664EN

Measurement Report_U-NII-5 6.2G 802.11ax(160M)_Body_Left Edge_CH 79_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance [mm]	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL		Number	Factor	[S/m]	Permittivity
Flat, HSL	Left Edge, 0.00	6345.0, 79	5.54	6.002	35.123

Hardware Setup

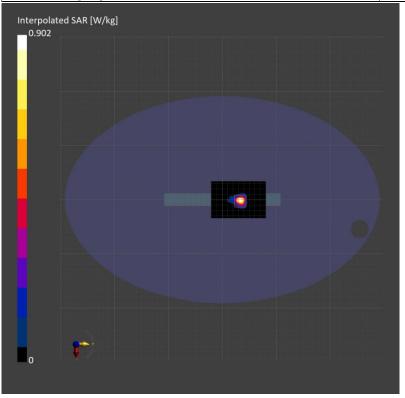
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.631	0.796
psSAR8g [W/kg]	0.190	0.215
psSAR10g [W/kg]	0.161	0.181
psPDab (4.0cm2, sq) [W/m2]		4.31
Power Drift [dB]	0.02	0.04
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		5.5



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ID: 046

Report No.: TESA2410000664EN

Measurement Report_U-NII-6 6.5G 802.11ax(160M)_Body_Left Edge_CH 111_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section.	Position, Test Distance [mm]	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	r coluent, reat Biotamos [mm]	Number		,	Permittivity
Flat, HSL	Left Edge, 0.00	6505.0, 111	5.54	6.194	34.931

Hardware Setup

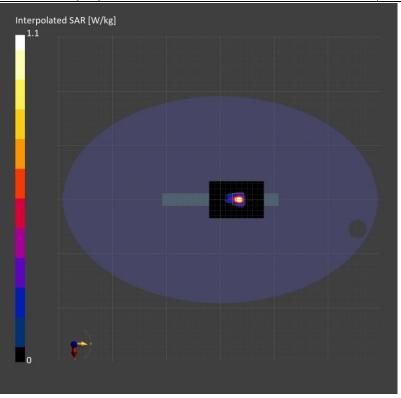
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.770	0.941
psSAR8g [W/kg]	0.228	0.254
psSAR10g [W/kg]	0.194	0.214
psPDab (4.0cm2, sq) [W/m2]		5.07
Power Drift [dB]	-0.11	-0.14
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		5.5



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ID: 047

Report No.: TESA2410000664EN

Measurement Report_U-NII-7 6.7G 802.11ax(160M)_Body_Left Edge_CH 175_0mm_Aux

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section,	Position, Test Distance [mm]	Frequency [MHz],Channel	Conversion	TSL Conductivity	TSL
TSL		Number	Factor	[S/m]	Permittivity
Flat, HSL	Left Edge, 0.00	6825.0, 175	5.54	6.574	34.547

Hardware Setup

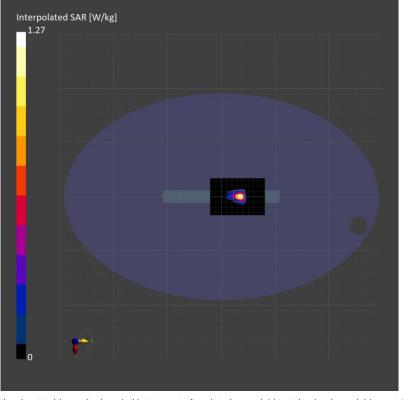
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-15	2024-11-15
psSAR1g [W/kg]	0.911	1.07
psSAR8g [W/kg]	0.269	0.287
psSAR10g [W/kg]	0.229	0.242
psPDab (4.0cm2, sq) [W/m2]		5.75
Power Drift [dB]	-0.02	-0.11
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		5.4



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ID: 048

Report No.: TESA2410000664EN

Measurement Report_U-NII-8 7.0G 802.11ax(160M)_Body_Left Edge_CH 207_0mm_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	,	Frequency [MHz],Channel Number		,	TSL Permittivitv
	Left Edge, 0.00	6985.0, 207	5.72	6.76	34.355

Hardware Setup

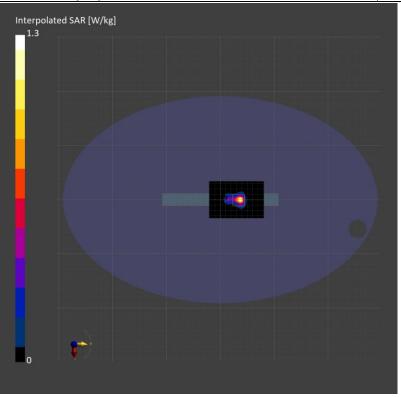
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-11-16	2024-11-16
psSAR1g [W/kg]	0.855	0.983
psSAR8g [W/kg]	0.250	0.266
psSAR10g [W/kg]	0.214	0.224
psPDab (4.0cm2, sq) [W/m2]		5.32
Power Drift [dB]	-0.04	-0.04
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		5.2



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13 PD MEASUREMENT RESULTS

Report No.: TESA2410000664EN

Measurement Report_Right Edge, U-NII-5, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor
5G	Right Edge, 2.00	6025.0, 15	1.0

Hardware Setup

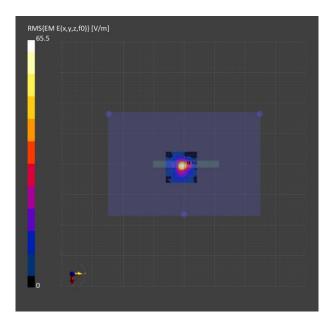
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.53
psPDtot+ [W/m²]	4.46
psPDmod+ [W/m²]	5.14
E _{max} [V/m]	65.5
Power Drift [dB]	0.09



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ID: 050

Report No.: TESA2410000664EN

Measurement Report_Right Edge, U-NII-5, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Right Edge, 2.00	6185.0, 47	1.0

Hardware Setup

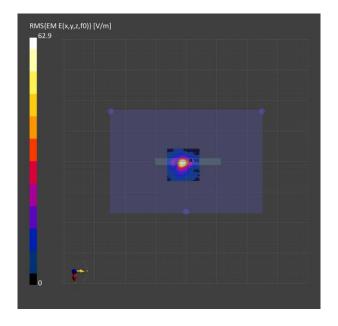
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

indudui diniditti tudditto		
Scan Type	5G Scan	
Date	2024-11-17	
Avg. Area [cm ²]	4.00	
psPDn+ [W/m ²]	3.22	
psPDtot+ [W/m²]	4.55	
psPDmod+ [W/m²]	5.28	
E _{max} [V/m]	62.9	
Power Drift [dB]	0.04	



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ID: 051

Report No.: TESA2410000664EN

Measurement Report_Right Edge, U-NII-6, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm	Frequency [MHz],Channel Number	Conversion Factor
5G	Right Edge, 2.00	6505.0, 111	1.0
Handrey Octor			

Hardware Setup

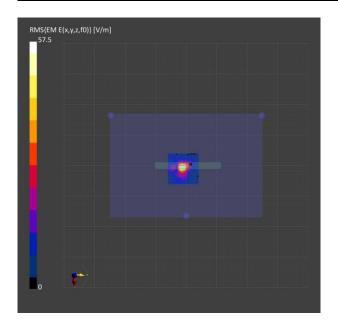
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm²]	4.00
psPDn+ [W/m ²]	2.53
psPDtot+ [W/m²]	3.20
psPDmod+ [W/m²]	3.93
E _{max} [V/m]	57.5
Power Drift [dB]	0.12



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ID: 052

Report No.: TESA2410000664EN

Measurement Report_Right Edge, U-NII-7, Main

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor
5G	Right Edge, 2.00	6825.0, 175	1.0

Hardware Setup

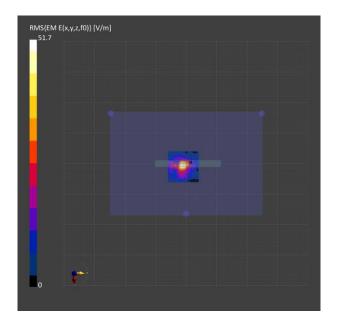
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.56
psPDtot+ [W/m²]	3.36
psPDmod+ [W/m²]	3.83
E _{max} [V/m]	51.7
Power Drift [dB]	-0.01



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ID: 053

Report No.: TESA2410000664EN

Measurement Report_Right Edge, U-NII-8, Main

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Right Edge, 2.00	6985.0, 207	1.0

Hardware Setup

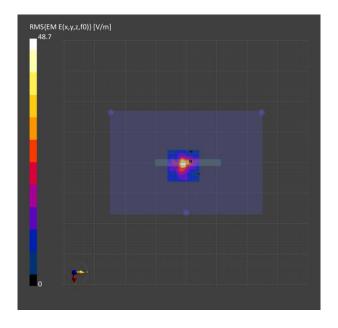
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	1.90
psPDtot+ [W/m²]	2.29
psPDmod+ [W/m²]	2.79
E _{max} [V/m]	48.7
Power Drift [dB]	-0.07



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ID: 054

Report No.: TESA2410000664EN

Measurement Report_Left Edge, U-NII-5, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Left Edge, 2.00	6025.0, 15	1.0

Hardware Setup

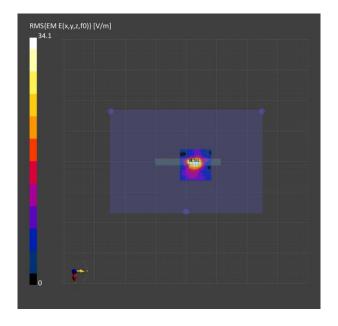
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	1.91
psPDtot+ [W/m²]	2.17
psPDmod+ [W/m²]	2.25
E _{max} [V/m]	34.1
Power Drift [dB]	0.04



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ID: 055

Report No.: TESA2410000664EN

Measurement Report_Left Edge, U-NII-5, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor
5G	Left Edge, 2.00	6345.0, 79	1.0
Hardware Setup	•	·	

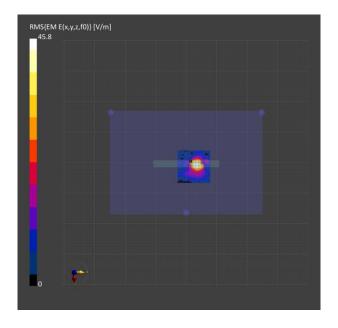
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

mode di onioni i tocalic	
Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.08
psPDtot+ [W/m²]	3.77
psPDmod+ [W/m²]	4.04
E _{max} [V/m]	45.8
Power Drift [dB]	-0.07



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ID: 056

Report No.: TESA2410000664EN

Measurement Report_Left Edge, U-NII-6, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz],Channel Number	Conversion Factor
5G	Left Edge, 2.00	6505.0, 111	1.0

Hardware Setup

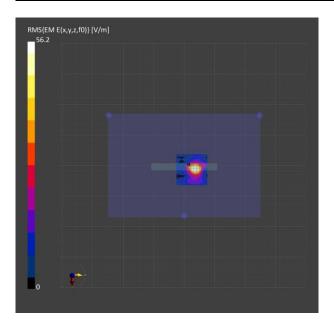
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	4.90
psPDtot+ [W/m²]	5.27
psPDmod+ [W/m²]	5.63
E _{max} [V/m]	56.2
Power Drift [dB]	0.10



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ID: 057

Report No.: TESA2410000664EN

Measurement Report_Left Edge, U-NII-7, Aux

IEEE 802.11ax(160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor
5G	Left Edge, 2.00	6825.0, 175	1.0

Hardware Setup

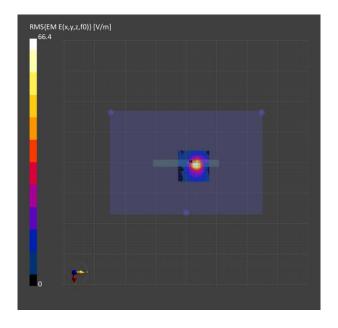
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	5.56
psPDtot+ [W/m²]	6.23
psPDmod+ [W/m²]	6.53
E _{max} [V/m]	66.4
Power Drift [dB]	0.11



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ID: 058

Report No.: TESA2410000664EN

Measurement Report_Left Edge, U-NII-8, Aux

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

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor
5G	Left Edge, 2.00	6985.0, 207	1.0
			<u> </u>

Hardware Setup

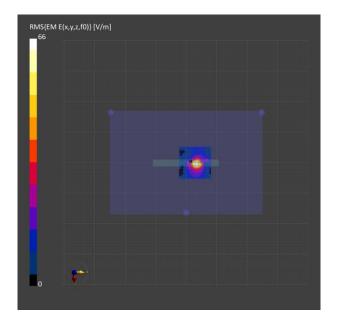
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	DAE4 Sn856, 2024-04-22

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-11-17
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	5.44
psPDtot+ [W/m²]	5.80
psPDmod+ [W/m²]	6.17
E _{max} [V/m]	66.0
Power Drift [dB]	0.13



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14 SAR SYSTEM CHECK RESULTS

Date: 2024/11/11

Report No.: TESA2410000664EN

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.834 \text{ S/m}$; $\epsilon_r = 40.181$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(7.76, 7.48, 7.6) @ 2450 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.4 W/kg

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

Reference Value = 107.2 V/m; Power Drift = -0.03 dB

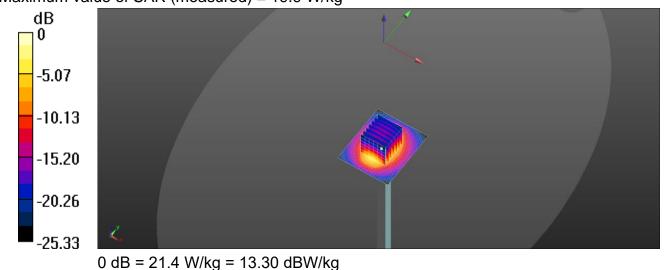
Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.25 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

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



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Date: 2024/11/12

Report No.: TESA2410000664EN Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: f = 5250 MHz; $\sigma = 4.781 \text{ S/m}$; $\varepsilon_r = 36.516$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(5.49, 5.39, 5.43) @ 5250 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856: Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.5 W/kg

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

Reference Value = 55.34 V/m; Power Drift = -0.01 dB

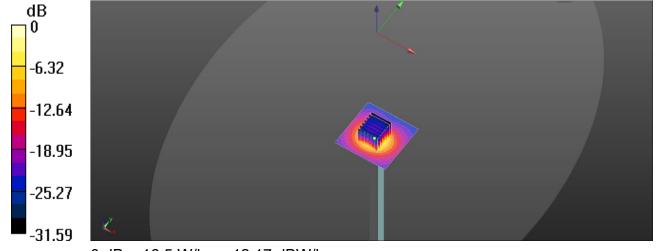
Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.38 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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Date: 2024/11/13

Report No.: TESA2410000664EN Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: f = 5600 MHz; $\sigma = 5.142 \text{ S/m}$; $\varepsilon_r = 36.096$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.82, 4.64, 4.68) @ 5600 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856: Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.5 W/kg

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

Reference Value = 58.49 V/m; Power Drift = -0.02 dB

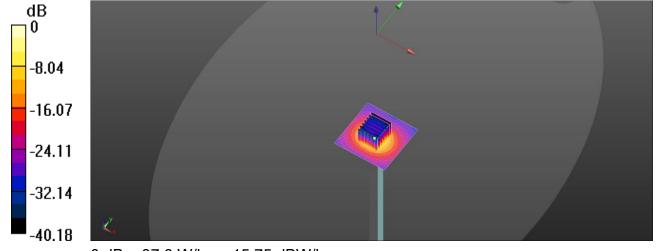
Peak SAR (extrapolated) = 34.7 W/kg

SAR(1 g) = 8.43 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 37.6 W/kg = 15.75 dBW/kg

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Date: 2024/11/14

Report No. :TESA2410000664EN Dipole 5750 MHz_SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: f = 5750 MHz; $\sigma = 5.293 \text{ S/m}$; $\varepsilon_r = 35.916$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.89, 4.71, 4.77) @ 5750 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.6 W/kg

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

Reference Value = 55.54 V/m; Power Drift = 0.06 dB

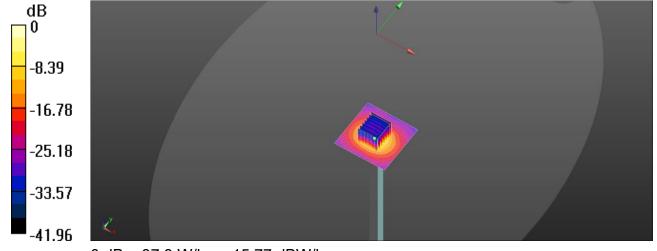
Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.22 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 37.8 W/kg = 15.77 dBW/kg

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Date: 2024/11/14

Report No. :TESA2410000664EN Dipole 5850 MHz_SN:1023

Communication System: CW; Frequency: 5850 MHz; Duty cycle= 1:1

Medium parameters used: f = 5850 MHz; σ = 5.4 S/m; ϵ_r = 35.796; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(4.72, 4.58, 4.68) @ 5850 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

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

Reference Value = 57.93 V/m; Power Drift = -0.04 dB

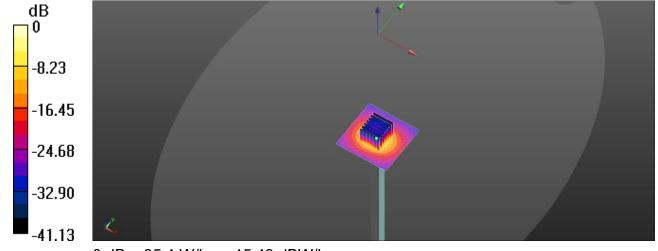
Peak SAR (extrapolated) = 33.1 W/kg

SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.3 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 35.4 W/kg = 15.49 dBW/kg

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Report No.: TESA2410000664EN

Measurement Report Dipole_D6500-SN:1006

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.54	6.188	34.937

Hardware Setup

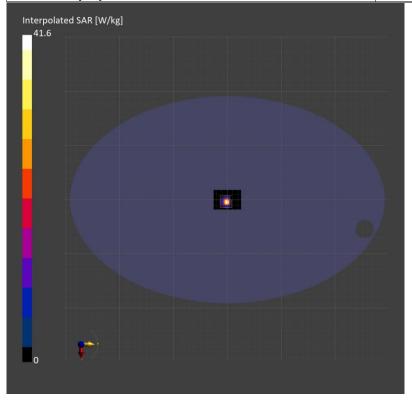
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	36.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	2.6 x 2.6 x 1.2
Sensor Surface [mm]	3.0	1.4

Measurement Results

Measurement Nesuris			
	Area Scan	Zoom Scan	
Date	2024-11-15	2024-11-15	
psSAR1g [W/kg]	24.1	30.6	
psSAR8g [W/kg]	5.81	6.69	
psSAR10g [W/kg]	4.80	5.47	
psPDab (4.0cm2, sq) [W/m2]		134	
Power Drift [dB]	-0.01	0.02	
M2/M1 [%]		56.3	
Dist 3dB Peak [mm]		4.5	



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Report No.: TESA2410000664EN

Measurement Report Dipole_D7000-SN:1007

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.72	6.779	34.337

Hardware Setup

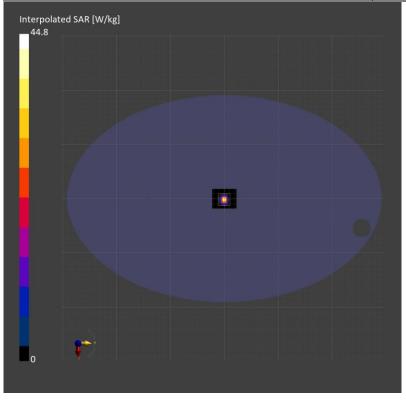
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2024-04-18	DAE4 Sn856, 2024-04-22

Scans Setup

	Area Scan	Zoom Scan	
Grid Extents [mm]	36.0 x 45.0	22.0 x 22.0 x 22.0	
Grid Steps [mm]	6.0 x 7.5	3.0 x 3.0 x 1.4	
Sensor Surface [mm]	3.0	1.4	

Measurement Results

Measurement results				
	Area Scan	Zoom Scan		
Date	2024-11-16	2024-11-16		
psSAR1g [W/kg]	25.2	28.6		
psSAR8g [W/kg]	5.81	6.26		
psSAR10g [W/kg]	4.82	5.13		
psPDab (4.0cm2, sq) [W/m2]		125		
Power Drift [dB]	0.04	-0.03		
M2/M1 [%]		51.3		
Dist 3dB Peak [mm]		4.7		



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15 PD SYSTEM CHECK RESULTS

Report No.: TESA2410000664EN

Measurement Report

5G Verification Source 10GHz-SN: 1021

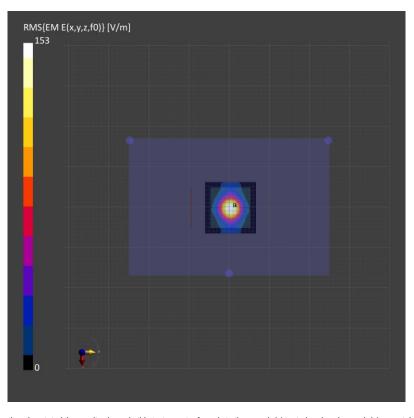
Exposure Conditions

psPDmod+ [W/m²]

Power Drift [dB]

E_{max} [V/m]

Phantom Section	nantom Section Position, Test Distance [mm]			Conversion Factor	
5G	FRONT, 10.00			1.0	
Hardware Setup)				
Phantom	Medium	Probe, Calibration Date		DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV4 - SN9616_F1-55GHz, 2024-03-12	2	DAE4 Sn856, 2024-04-22	
Scans Setup					
Scan Type				5G Scan	
Grid Extents [mm]		120.0 x 120.0			
Grid Steps [lambda]		0.25 x 0.25			
Sensor Surface [mm]			10.0		
Measurement R	esults				
Scan Type				5G Scan	
Date			2024-11-17		
Avg. Area [cm ²]			4.00		
psPDn+ [W/m²]			50.6		
psPDtot+ [W/m²]			50.7		



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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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