

## RF Exposure report



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

<b>Product Name</b>	Convertible PC
<b>Brand Name</b>	HP
<b>Model No.</b>	TPN-C157
<b>Applicant</b>	HP Inc. 1501 Page Mill Road, Palo Alto, CA 94304, USA
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013
<b>FCC ID</b>	B94-RTL8852CEB
<b>Date of EUT Receipt</b>	Oct. 26, 2022
<b>Date of Test(s)</b>	Nov. 9, 2022 ~ Nov. 18, 2022
<b>Date of Issue</b>	Dec. 20, 2022

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 / Cindy Chou	PM / Kiki Lin	Approved By / John Yeh

Date: Dec. 20, 2022

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2210000423ES	00	Initial creation of document	Dec. 20, 2022	Cindy Chou	*
TESA2210000423ES	01	Modify Liquid date comment	Jan. 04, 2023	Cindy Chou	

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

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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1.2 Description of EUT

Product Name	Convertible PC	
Brand Name	HP	
Model No.	TPN-C157	
FCC ID	B94-RTL8852CEB	
Integrated WLAN Module	Brand Name: REALTEK Model Name: RTL8852CE	
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/ HE160 Bluetooth BR/EDR/LE	
Duty Cycle	WLAN802.11	Please refer to section 7
	Bluetooth	Please refer to section 7
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 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)
802.11ax	5.9GHz (5850.0 – 5895.0 MHz)	
	6.2GHz (5925.0 – 6425.0 MHz)	
	6.5GHz (6425.0 – 6525.0 MHz)	
Bluetooth 5.2	6.7GHz (6525.0 – 6875.0 MHz)	
	7.0GHz (6875.0 – 7125.0 MHz)	
Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)	

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### 1.3 Maximum value

#### Vendor 1

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m <sup>2</sup> )	Highest PD (W/m <sup>2</sup> )
Bluetooth(GFSK)	0.1	N/A	N/A
2.4G WLAN	0.27	N/A	N/A
5G WLAN	0.74	N/A	N/A
6G WLAN	0.45	3.39	3.91

#### Vendor 2

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m <sup>2</sup> )	Highest PD (W/m <sup>2</sup> )
Bluetooth(GFSK)	0.06	N/A	N/A
2.4G WLAN	0.64	N/A	N/A
5G WLAN	0.66	N/A	N/A
6G WLAN	0.49	2.85	7.96

### 1.4 Antenna Information

Vendor	Vendor1										Vendor2									
Antenna	TX2										TX1									
Part Number	219HCTN12198										219HCTN12197									
Frequency(MHz)	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125
Gain (dBi)	1.03	1.77	2.52	2.62	2.95	2.55	2.59	0.05	2.62	0.31	2.37	0.88	2.33	2.94	2.92	2.92	2.55	2.54	2.54	0.51
Note: Antenna information is provided by the applicant.																				
Vendor	Vendor1										Vendor2									
Antenna	TX2										TX1									
Part Number	219HCTN12198										219HCTN12197									
Frequency(MHz)	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125
Gain (dBi)	1.84	2.30	2.52	2.86	2.85	2.40	2.90	1.18	2.60	0.16	0.8	1.87	2.64	2.68	2.68	2.38	2.81	1.81	2.01	1.93
Note: Antenna information is provided by the applicant.																				
Vendor	Vendor2										Vendor2									
Antenna	TX2										TX1									
Part Number	48EABP01.SGCLOC										48EABP02.SGCLOC									
Frequency(MHz)	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125
Gain (dBi)	1.84	0.71	2.17	1.26	1.22	1.22	2.64	1.78	2.98	2.98	0.47	1.00	-1.17	2.4	2.84	2.84	2.75	2.50	2.50	1.83
Note: Antenna information is provided by the applicant.																				
Vendor	Vendor2										Vendor2									
Antenna	TX2										TX1									
Part Number	48EABP01.SGCLOC										48EABP02.SGCLOC									
Frequency(MHz)	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	5850-5925	5925-6425	6425-6525	6525-6875	6875-7125
Gain (dBi)	-1.59	1.35	2.37	1.88	2.84	2.84	2.52	0.16	1.12	2.91	-0.54	0.98	0.98	1.11	1.11	-0.84	0.63	1.39	2.10	0.30
Note: Antenna information is provided by the applicant.																				

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## 2 MEASUREMENT SYSTEM

### 2.1 Test Facility

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

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

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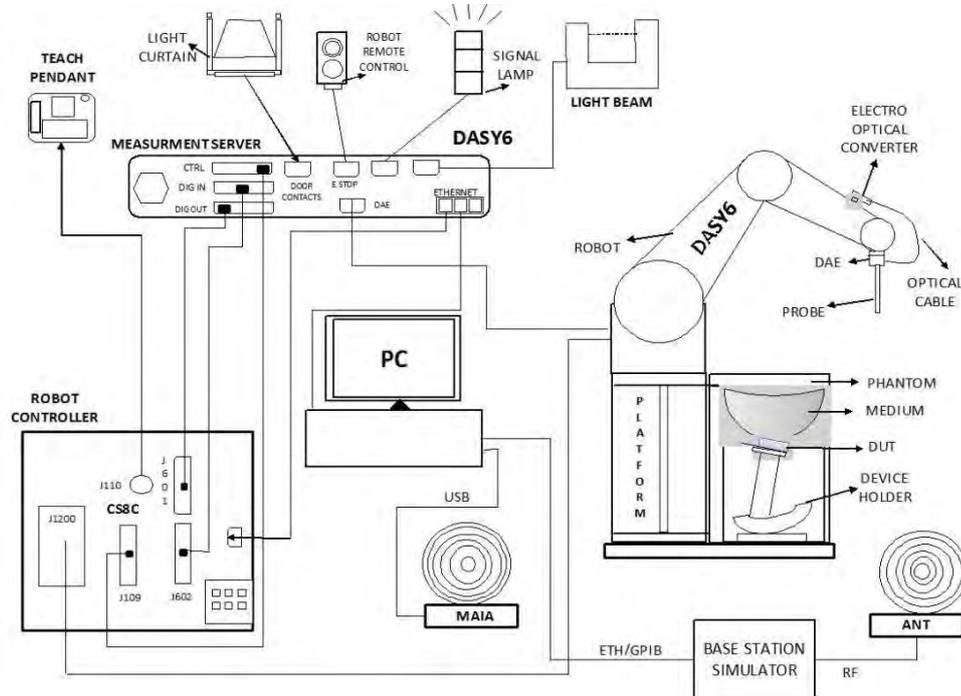
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### Block Diagram (DASY6)

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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**EX3DV4 E-Field Probe**

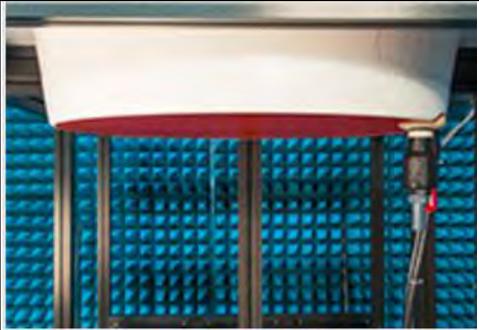
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/6500/7000 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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**PHANTOM (ELI)**

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

**DEVICE HOLDER (ELI)**

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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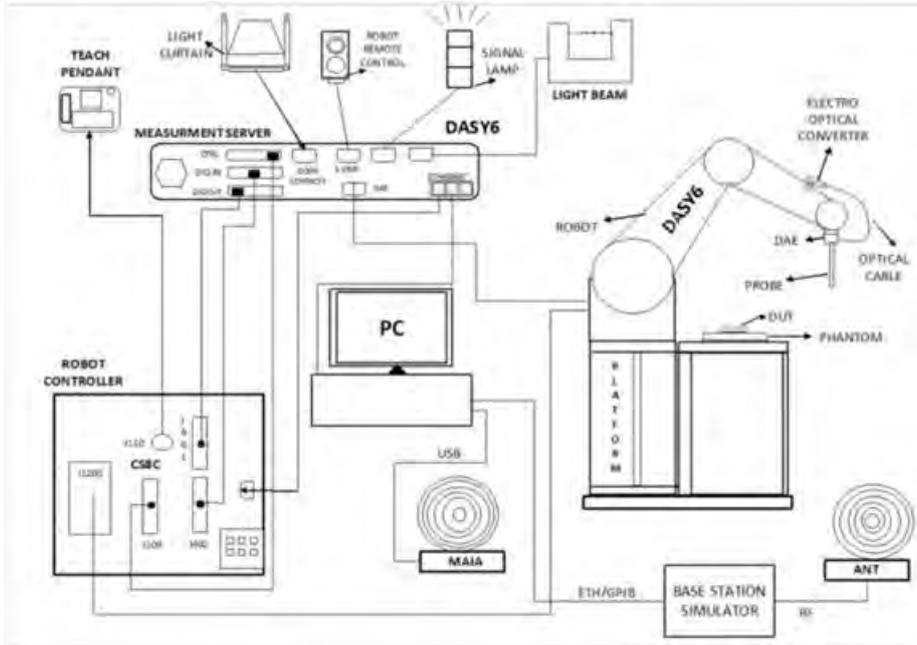
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### 2.3 PD system

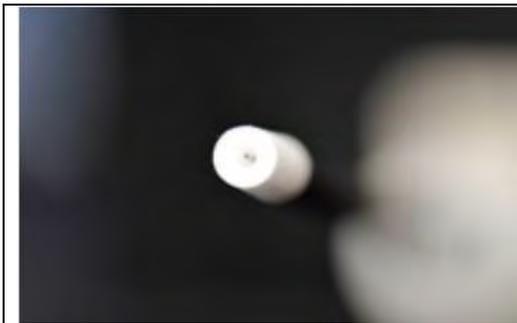
#### Block Diagram (DASY6)

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



#### EUmmWVx probe

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



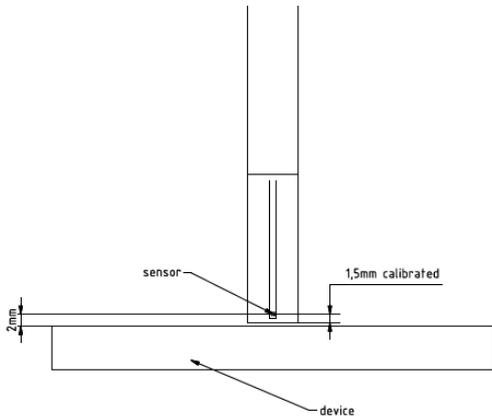
Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.

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Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space). Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



### mmWave Phantom

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

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### 3 SAR SYSTEM VERIFICATION

#### 3.1 Tissue Simulating Liquid

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

#### 3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)  
All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within  $\pm 5\%$  of the target values.

#### 3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Limit	Measurement Date
2402	22.5	39.282	1.757	39.607	1.777	0.83%	1.11%	$\pm 5\%$	Nov. 10, 2022
2412	22.5	39.265	1.766	39.593	1.785	0.83%	1.06%	$\pm 5\%$	Nov. 10, 2022
2437	22.5	39.222	1.788	39.555	1.807	0.85%	1.04%	$\pm 5\%$	Nov. 10, 2022
2441	22.5	39.215	1.792	39.547	1.811	0.85%	1.06%	$\pm 5\%$	Nov. 10, 2022
2450	22.5	39.200	1.800	39.372	1.816	0.44%	0.89%	$\pm 5\%$	Nov. 10, 2022
2462	22.5	39.184	1.813	39.338	1.829	0.39%	0.89%	$\pm 5\%$	Nov. 10, 2022
2480	22.5	39.160	1.832	39.322	1.844	0.41%	0.66%	$\pm 5\%$	Nov. 10, 2022
5190	22.3	36.010	4.650	36.448	4.686	1.22%	0.79%	$\pm 5\%$	Nov. 11, 2022
5230	22.3	35.970	4.690	36.409	4.728	1.22%	0.81%	$\pm 5\%$	Nov. 11, 2022
5250	22.3	35.950	4.710	36.421	4.749	1.31%	0.83%	$\pm 5\%$	Nov. 11, 2022
5250	22.3	35.950	4.710	36.385	4.751	1.21%	0.87%	$\pm 5\%$	Nov. 12, 2022
5270	22.3	35.930	4.730	36.372	4.776	1.23%	0.97%	$\pm 5\%$	Nov. 12, 2022
5310	22.3	35.890	4.770	36.319	4.814	1.20%	0.92%	$\pm 5\%$	Nov. 12, 2022
5510	22.4	35.635	4.976	36.102	4.922	1.31%	-1.08%	$\pm 5\%$	Nov. 13, 2022
5530	22.4	35.605	4.997	36.075	4.944	1.32%	-1.05%	$\pm 5\%$	Nov. 13, 2022
5600	22.4	35.500	5.070	35.362	5.015	-0.39%	-1.08%	$\pm 5\%$	Nov. 13, 2022
5610	22.4	35.490	5.080	35.322	5.023	-0.47%	-1.12%	$\pm 5\%$	Nov. 13, 2022
5670	22.4	35.430	5.140	35.271	5.088	-0.45%	-1.01%	$\pm 5\%$	Nov. 13, 2022
5690	22.3	35.410	5.160	35.266	5.105	-0.41%	-1.07%	$\pm 5\%$	Nov. 14, 2022
5710	22.3	35.390	5.180	35.155	5.119	-0.66%	-1.18%	$\pm 5\%$	Nov. 14, 2022
5745	22.3	35.355	5.215	35.119	5.156	-0.67%	-1.13%	$\pm 5\%$	Nov. 14, 2022
5750	22.3	35.350	5.220	35.112	5.163	-0.67%	-1.09%	$\pm 5\%$	Nov. 14, 2022
5775	22.3	35.325	5.245	35.092	5.189	-0.66%	-1.07%	$\pm 5\%$	Nov. 14, 2022
5785	22.3	35.315	5.255	35.081	5.195	-0.66%	-1.14%	$\pm 5\%$	Nov. 14, 2022
5825	22.3	35.275	5.296	35.039	5.237	-0.67%	-1.12%	$\pm 5\%$	Nov. 14, 2022
6025	22.4	35.070	5.510	35.441	5.587	1.06%	1.41%	$\pm 5\%$	Nov. 15, 2022
6185	22.4	34.878	5.698	35.249	5.756	1.06%	1.01%	$\pm 5\%$	Nov. 15, 2022
6345	22.4	34.686	5.887	35.057	5.925	1.07%	0.64%	$\pm 5\%$	Nov. 15, 2022
6500	22.4	34.500	6.070	34.871	6.090	1.08%	0.33%	$\pm 5\%$	Nov. 15, 2022
6505	22.4	34.494	6.076	34.865	6.095	1.08%	0.32%	$\pm 5\%$	Nov. 15, 2022
6665	22.4	34.302	6.261	34.673	6.265	1.08%	0.06%	$\pm 5\%$	Nov. 15, 2022
6825	22.4	34.110	6.447	34.481	6.438	1.09%	-0.14%	$\pm 5\%$	Nov. 15, 2022
6865	22.4	34.062	6.493	34.433	6.481	1.09%	-0.19%	$\pm 5\%$	Nov. 15, 2022
6945	22.4	33.966	6.586	34.337	6.566	1.09%	-0.31%	$\pm 5\%$	Nov. 16, 2022
7000	22.4	33.900	6.650	34.271	6.626	1.09%	-0.36%	$\pm 5\%$	Nov. 16, 2022
7025	22.4	33.870	6.680	34.241	6.653	1.10%	-0.40%	$\pm 5\%$	Nov. 16, 2022

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### 3.4 The composition of the tissue simulating liquid:

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

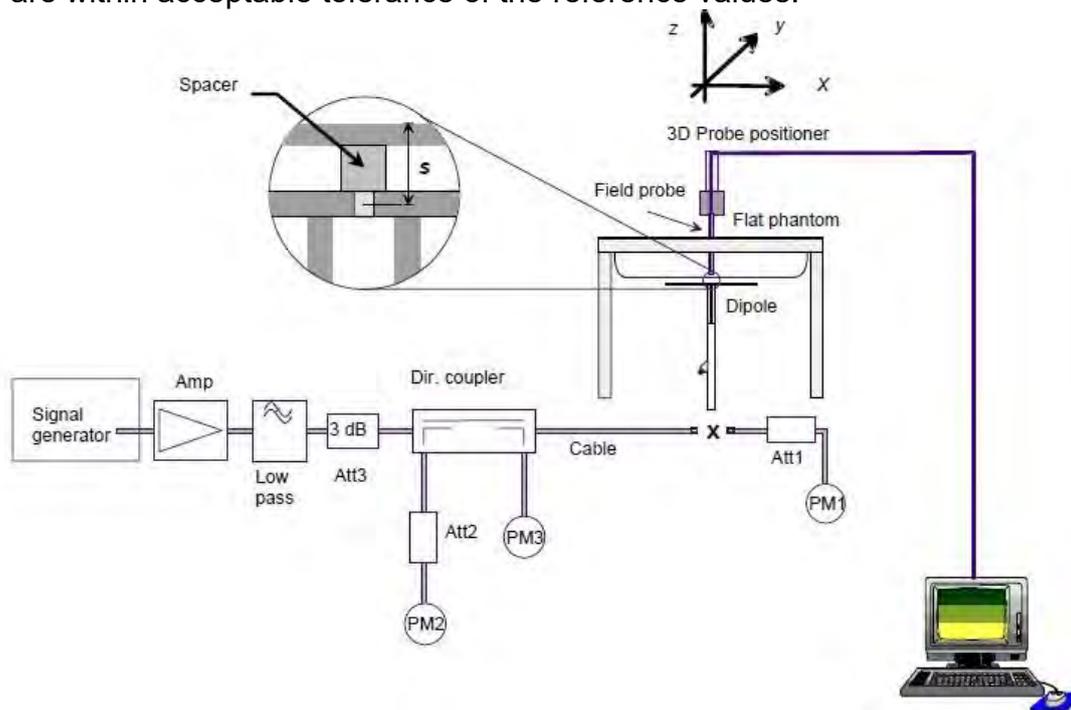
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

### 3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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### 3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	13.1	52.4	-0.76	± 10%	Nov.10,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	7.71	77.1	-4.81	± 10%	Nov.11,2022
D5GHzV2	1023	5250	81	8.35	83.5	3.09	± 10%	Nov.12,2022
D5GHzV2	1023	5600	84.4	8.51	85.1	0.83	± 10%	Nov.13,2022
D5GHzV2	1023	5750	81	7.75	77.5	-4.32	± 10%	Nov.14,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	292	28.3	283	-3.08	± 10%	Nov.15,2022
D7GHzV2	1007	7000	278	27.1	271	-2.52	± 10%	Nov.16,2022
Validation Kit	S/N	Frequency (MHz)	1W Target APD (W/m <sup>2</sup> ) (4cm <sup>2</sup> )	pin=100mW Measured APD (W/m <sup>2</sup> ) (4cm <sup>2</sup> )	Normalized to 1W APD (W/m <sup>2</sup> ) (4cm <sup>2</sup> )	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	1320	130	1300	-1.52	± 10%	Nov.15,2022
D7GHzV2	1007	7000	1210	113	1130	-6.61	± 10%	Nov.16,2022

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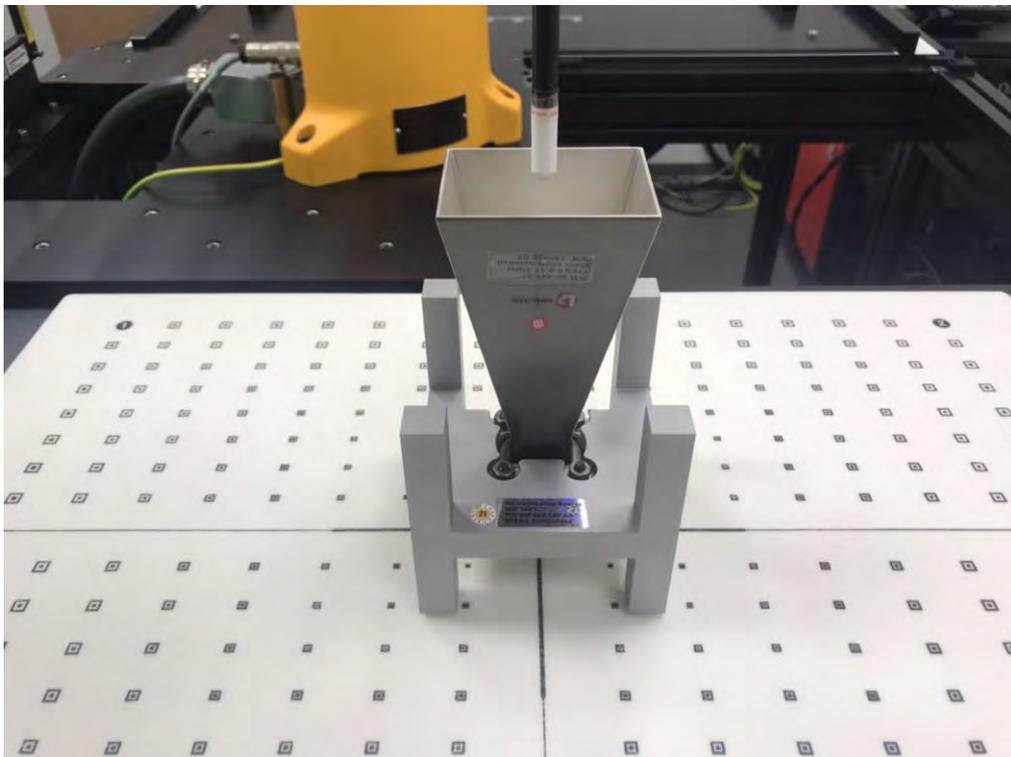
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## 4 PD SYSTEM VERIFICATION

### 4.1 System check

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

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



System Verification Setup Photo

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## 4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm <sup>2</sup> (W/m <sup>2</sup> )	Target 4cm <sup>2</sup> (W/m <sup>2</sup> )	Deviation (dB)	Date
10000	10000	9399	1665	10	86.1	52.5	51.7	0.07	Nov.17,2022

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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 ≤ 0.8 W/kg, when the transmission band is ≤ 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 (~ 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  $\leq 1.2$  W/kg, SAR is not required for subsequent test configuration.

- **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.
- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209-1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at  $d=2$ mm with the grid step ( $0.0625\lambda$ ) for determining compliance at  $d=2$ mm.
- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty  $> 30\%$ . Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.
- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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### 5.3 Test position

#### Tablet mode SAR test position (0mm)

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

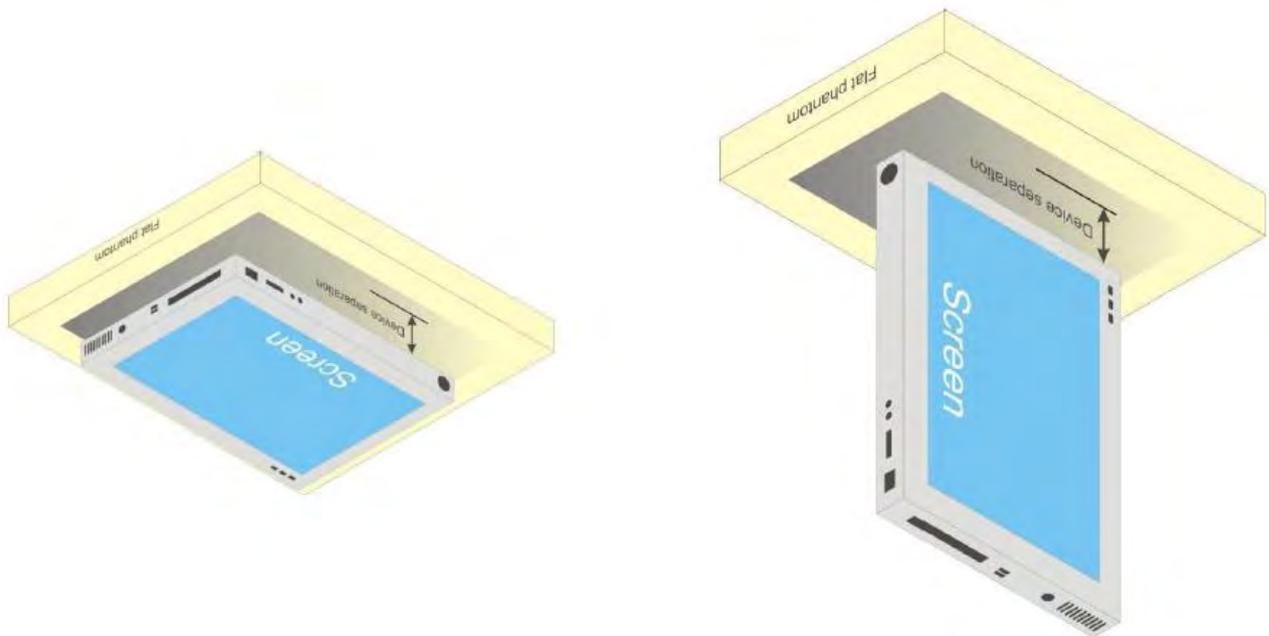


Illustration for Tablet Setup

#### Book mode SAR test position (0mm)

SAR is measured with right edge and left edge touch against the flat phantom.

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### 5.4 Power verification of device mode

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.

#### Device mode verification by power measurement

Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11n(40M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	802.11ac(80M) 5.9G	
Tx1	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Laptop	40°	19.83	17.92	17.89	16.22	15.85	16.30	
		35°	19.88	17.81	17.81	16.36	15.82	16.47	
	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
		32°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
		34°	n/a	n/a	n/a	n/a	n/a	n/a	
		35°	19.84	17.76	17.92	16.30	15.71	16.47	
	Laptop	36°	19.93	17.79	17.85	16.18	15.80	16.47	
		37°	19.91	17.93	17.93	16.24	15.77	16.42	
		38°	19.87	17.74	17.79	16.30	15.89	16.49	
		39°	19.84	17.79	17.76	16.37	15.76	16.31	
		40°	19.80	17.77	17.83	16.26	15.80	16.31	
		50°	19.98	17.76	17.78	16.18	15.78	16.43	
		60°	19.83	17.93	17.86	16.35	15.82	16.40	
		70°	19.97	17.85	17.79	16.33	15.73	16.35	
		80°	19.96	17.88	17.88	16.24	15.81	16.39	
		90°	19.90	17.89	17.76	16.21	15.79	16.47	
		100°	19.89	17.85	17.87	16.33	15.75	16.47	
		110°	19.87	17.89	17.83	16.32	15.89	16.36	
		120°	19.97	17.74	17.83	16.23	15.74	16.46	
		Flat	130°	15.32	14.40	13.86	13.97	14.33	16.39
	Laptop	125°	19.98	17.88	17.87	16.26	15.70	16.42	
		126°	19.95	17.82	17.86	16.35	15.85	16.37	
		127°	19.91	17.89	17.93	16.32	15.87	16.49	
		128°	19.81	17.79	17.75	16.21	15.77	16.45	
		129°	19.83	17.79	17.87	16.26	15.79	16.33	
		130°	15.44	14.32	13.98	13.81	14.46	16.45	
	Flat	131°	15.47	14.28	13.86	13.94	14.40	16.44	
		132°	15.39	14.43	13.96	13.84	14.38	16.36	
		133°	15.34	14.28	13.92	13.83	14.45	16.45	
		134°	15.41	14.27	13.83	13.95	14.44	16.48	
		135°	15.40	14.27	13.83	13.85	14.46	16.44	
		145°	15.33	14.32	13.85	13.82	14.45	16.34	
		155°	15.37	14.26	13.94	13.98	14.31	16.31	
		165°	15.45	14.39	13.89	13.97	14.31	16.38	
		175°	15.39	14.33	13.88	13.90	14.42	16.41	
		185°	15.45	14.44	13.88	13.90	14.38	16.38	
		195°	15.43	14.44	13.85	13.98	14.42	16.47	
		Tent (Not Horizontal)	205°	15.37	14.30	13.91	13.97	14.32	16.49
		Stand mode (Horizontal)	205°	19.99	17.87	17.77	16.32	15.73	16.45
		Flat	200°	15.35	14.30	13.91	13.98	14.44	16.48

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Tx1	Tent (Not Horizontal)	201°	15.37	14.33	13.94	13.96	14.46	16.35
		202°	15.37	14.30	13.93	13.87	14.40	16.43
		203°	15.47	14.40	13.82	13.84	14.33	16.49
		204°	15.32	14.40	13.80	13.89	14.45	16.39
		205°	15.36	14.43	13.92	13.93	14.46	16.47
		215°	15.49	14.27	13.88	13.90	14.32	16.46
		225°	15.44	14.29	13.96	13.88	14.41	16.46
		235°	15.36	14.44	13.84	13.89	14.38	16.38
		245°	15.44	14.44	13.98	13.84	14.40	16.41
		255°	15.43	14.26	13.96	13.93	14.36	16.49
		265°	15.46	14.35	13.96	13.92	14.47	16.33
		275°	15.34	14.37	13.85	13.96	14.29	16.43
		285°	15.43	14.38	13.90	13.89	14.36	16.40
		295°	15.49	14.35	13.93	13.96	14.34	16.36
		305°	15.36	14.39	13.98	13.96	14.32	16.32
		315°	15.33	14.32	13.97	13.82	14.29	16.43
		325°	15.40	14.29	13.80	13.98	14.42	16.48
		335°	15.36	14.38	13.92	13.84	14.34	16.32
		201°	19.95	17.83	17.90	16.37	15.83	16.44
		202°	19.87	17.91	17.83	16.33	15.82	16.49
	203°	19.96	17.85	17.92	16.35	15.82	16.36	
	204°	19.96	17.92	17.89	16.32	15.82	16.49	
	205°	19.89	17.80	17.91	16.23	15.82	16.42	
	215°	19.83	17.89	17.83	16.32	15.82	16.35	
	225°	19.80	17.88	17.88	16.21	15.77	16.45	
	235°	19.85	17.82	17.76	16.26	15.85	16.45	
	245°	19.80	17.77	17.87	16.30	15.87	16.49	
	255°	19.98	17.80	17.89	16.24	15.76	16.37	
	265°	19.94	17.78	17.79	16.24	15.83	16.31	
	275°	19.80	17.77	17.93	16.19	15.75	16.46	
	285°	19.94	17.79	17.76	16.27	15.77	16.35	
	295°	19.82	17.82	17.87	16.30	15.77	16.38	
	305°	19.95	17.87	17.86	16.32	15.86	16.41	
	315°	19.98	17.76	17.85	16.18	15.81	16.43	
	325°	19.95	17.78	17.89	16.21	15.81	16.42	
	335°	19.83	17.78	17.75	16.32	15.84	16.35	
	Tablet	345°	15.31	14.30	13.90	13.96	14.47	16.48
	Tent (Not Horizontal)	340°	15.32	14.34	13.96	13.84	14.43	16.39
	Stand mode (Horizontal)	340°	19.90	17.89	17.82	16.26	15.80	16.41
	Tablet	341°	15.37	14.41	13.98	13.97	14.43	16.39
342°		15.35	14.37	13.93	13.98	14.44	16.32	
343°		15.35	14.34	13.98	13.90	14.35	16.38	
344°		15.47	14.43	13.82	13.97	14.35	16.34	
345°		15.36	14.38	13.85	13.91	14.43	16.47	
355°		15.43	14.38	13.80	13.95	14.31	16.31	
360°		15.30	14.26	13.94	13.89	14.43	16.41	
Tablet	350°	15.36	14.43	13.80	13.93	14.38	16.45	
Tent (Not Horizontal)	340°	15.30	14.36	13.99	13.88	14.29	16.38	
Stand mode (Horizontal)	340°	19.97	17.85	17.87	16.19	15.79	16.36	

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Tx1	Tablet	345°	15.35	14.41	13.83	13.93	14.30	16.33
		344°	15.31	14.31	13.85	13.80	14.41	16.35
		343°	15.32	14.25	13.82	13.80	14.44	16.30
		342°	15.31	14.37	13.94	13.88	14.40	16.34
		341°	15.33	14.29	13.96	13.81	14.30	16.41
	Tent (Not Horizontal)	340°	15.42	14.38	13.82	13.83	14.45	16.46
		339°	15.46	14.31	13.86	13.91	14.35	16.41
		338°	15.47	14.39	13.82	13.96	14.46	16.31
		337°	15.47	14.39	13.87	13.89	14.42	16.40
		336°	15.37	14.30	13.90	13.82	14.32	16.46
		335°	15.49	14.27	13.85	13.89	14.43	16.30
		325°	15.36	14.35	13.82	13.86	14.41	16.39
		315°	15.39	14.27	13.98	13.93	14.30	16.39
		305°	15.48	14.36	13.90	13.98	14.41	16.33
		295°	15.30	14.43	13.88	13.85	14.33	16.44
		285°	15.40	14.26	13.95	13.83	14.39	16.47
		275°	15.35	14.27	13.82	13.88	14.38	16.43
		265°	15.32	14.30	13.99	13.95	14.42	16.32
		255°	15.49	14.36	13.93	13.95	14.34	16.40
		245°	15.49	14.28	13.88	13.82	14.42	16.48
		235°	15.48	14.39	13.84	13.97	14.44	16.32
		225°	15.31	14.28	13.80	13.99	14.46	16.49
		215°	15.42	14.38	13.93	13.87	14.39	16.37
		205°	15.48	14.28	13.94	13.87	14.30	16.33
		Stand mode (Horizontal)	340°	19.88	17.75	17.77	16.27	15.82
	339°		19.87	17.91	17.88	16.26	15.80	16.39
	338°		19.81	17.80	17.92	16.24	15.79	16.46
	337°		19.90	17.79	17.90	16.33	15.87	16.47
	336°		19.92	17.88	17.86	16.19	15.72	16.41
	335°		19.85	17.84	17.77	16.34	15.73	16.31
	325°		19.95	17.88	17.74	16.24	15.75	16.38
	315°		19.84	17.76	17.86	16.24	15.79	16.47
	305°		19.90	17.90	17.79	16.20	15.72	16.38
	295°		19.84	17.89	17.82	16.36	15.73	16.31
	285°		19.80	17.82	17.86	16.27	15.86	16.38
	275°		19.94	17.82	17.93	16.25	15.78	16.37
	265°		19.97	17.85	17.83	16.37	15.83	16.45
	255°		19.95	17.90	17.79	16.25	15.77	16.39
	245°		19.88	17.80	17.91	16.37	15.79	16.48
	235°		19.82	17.87	17.88	16.22	15.87	16.45
	225°		19.86	17.79	17.91	16.37	15.89	16.41
	215°	19.80	17.79	17.86	16.24	15.72	16.35	
	205°	19.90	17.78	17.76	16.21	15.74	16.35	
	Flat	195°	15.34	14.37	13.99	13.91	14.40	16.31
		200°	15.31	14.26	13.98	13.94	14.31	16.39
	Tent (Not Horizontal)	205°	15.36	14.35	13.81	13.91	14.34	16.47
		204°	15.41	14.27	13.89	13.80	14.42	16.39
		203°	15.42	14.29	13.92	13.86	14.45	16.35
		202°	15.49	14.41	13.94	13.98	14.31	16.42
		201°	15.46	14.28	13.81	13.81	14.31	16.32

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Tx1	Stand mode (Horizontal)	205°	19.80	17.91	17.91	16.23	15.76	16.40	
		204°	19.86	17.77	17.90	16.29	15.79	16.44	
		203°	19.95	17.89	17.85	16.23	15.78	16.45	
		202°	19.94	17.90	17.76	16.18	15.77	16.43	
		201°	19.88	17.85	17.87	16.22	15.87	16.46	
	Flat	200°	15.38	14.32	13.84	13.87	14.36	16.45	
		199°	15.32	14.26	13.81	13.86	14.32	16.33	
		198°	15.35	14.44	13.80	13.88	14.48	16.37	
		197°	15.32	14.35	13.83	13.96	14.38	16.41	
		196°	15.45	14.27	13.88	13.93	14.38	16.37	
		195°	15.33	14.27	13.80	13.88	14.30	16.30	
		185°	15.36	14.27	13.89	13.95	14.46	16.46	
		175°	15.36	14.28	13.92	13.83	14.46	16.32	
		165°	15.42	14.42	13.81	13.89	14.37	16.36	
		155°	15.36	14.36	13.95	13.86	14.33	16.31	
		145°	15.37	14.43	13.94	13.85	14.48	16.47	
		135°	15.39	14.40	13.93	13.92	14.43	16.49	
		Laptop	125°	19.92	17.87	17.87	16.29	15.80	16.44
		Flat	130°	15.43	14.37	13.87	13.80	14.31	16.39
			129°	19.85	17.78	17.81	16.31	15.70	16.41
	Laptop	128°	19.95	17.79	17.87	16.32	15.89	16.41	
		127°	19.84	17.92	17.91	16.37	15.82	16.34	
		126°	19.81	17.92	17.80	16.34	15.88	16.49	
		125°	19.85	17.77	17.85	16.25	15.72	16.33	
		115°	19.93	17.80	17.75	16.36	15.76	16.30	
		105°	19.86	17.84	17.78	16.25	15.86	16.45	
		95°	19.94	17.82	17.84	16.21	15.80	16.43	
		85°	19.96	17.74	17.80	16.29	15.79	16.44	
		75°	19.88	17.84	17.92	16.32	15.71	16.36	
		65°	19.83	17.81	17.92	16.20	15.70	16.34	
		55°	19.88	17.74	17.87	16.33	15.88	16.39	
		45°	19.98	17.79	17.76	16.31	15.70	16.39	
		35°	19.82	17.91	17.84	16.28	15.80	16.38	
		Lid close	25°	n/a	n/a	n/a	n/a	n/a	n/a
			30°	n/a	n/a	n/a	n/a	n/a	n/a
	Laptop	35°	19.91	17.84	17.74	16.29	15.82	16.40	
		34°	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	33°	n/a	n/a	n/a	n/a	n/a	n/a	
		32°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		0°	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Book mode	40°	15.49	14.32	13.87	13.84	14.38	16.49	
		35°	15.38	14.38	13.90	13.91	14.42	16.46	

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Tx1	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Book mode	35°	15.31	14.35	13.92	13.88	14.31	16.48	
		36°	15.47	14.44	13.86	13.90	14.40	16.47	
		37°	15.34	14.43	13.92	13.92	14.42	16.37	
		38°	15.34	14.32	13.87	13.92	14.33	16.38	
		39°	15.48	14.40	13.94	13.98	14.45	16.39	
		40°	15.38	14.26	13.82	13.94	14.46	16.33	
		50°	15.40	14.34	13.82	13.98	14.39	16.33	
		60°	15.30	14.25	13.88	13.81	14.35	16.42	
		70°	15.44	14.34	13.91	13.84	14.33	16.30	
		80°	15.42	14.34	13.98	13.91	14.32	16.39	
		90°	15.38	14.35	13.81	13.94	14.34	16.42	
		100°	15.49	14.26	13.93	13.88	14.36	16.32	
		110°	15.44	14.28	13.82	13.91	14.44	16.45	
		120°	15.42	14.36	13.97	13.88	14.41	16.38	
		130°	15.35	14.25	13.96	13.92	14.32	16.39	
		140°	15.43	14.37	13.83	13.87	14.32	16.31	
		150°	15.46	14.30	13.82	13.97	14.37	16.44	
		160°	15.37	14.35	13.85	13.82	14.47	16.47	
		170°	15.31	14.41	13.98	13.82	14.29	16.39	
		180°	15.30	14.37	13.93	13.92	14.34	16.43	
		190°	15.31	14.42	13.88	13.99	14.35	16.40	
		199°	15.45	14.29	13.88	13.87	14.42	16.33	
	Book mode	190°	15.48	14.29	13.96	13.92	14.32	16.34	
		180°	15.42	14.43	13.94	13.84	14.31	16.38	
		170°	15.34	14.27	13.84	13.86	14.48	16.44	
		160°	15.48	14.39	13.97	13.87	14.41	16.32	
		150°	15.40	14.33	13.94	13.98	14.42	16.41	
		140°	15.49	14.38	13.85	13.81	14.38	16.44	
		130°	15.38	14.43	13.85	13.97	14.31	16.37	
		120°	15.49	14.27	13.85	13.95	14.43	16.44	
		110°	15.36	14.33	13.90	13.93	14.33	16.45	
		100°	15.38	14.26	13.80	13.80	14.38	16.44	
		90°	15.35	14.31	13.89	13.81	14.40	16.31	
		80°	15.42	14.39	13.88	13.88	14.32	16.34	
		70°	15.43	14.29	13.89	13.90	14.47	16.34	
		60°	15.45	14.26	13.97	13.99	14.47	16.43	
		50°	15.43	14.29	13.89	13.89	14.40	16.33	
	40°	15.44	14.35	13.89	13.82	14.46	16.37		
	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Book mode	35°	15.39	14.26	13.91	13.93	14.35	16.44	
	Lid close	34°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
32°		n/a	n/a	n/a	n/a	n/a	n/a		
31°		n/a	n/a	n/a	n/a	n/a	n/a		
30°		n/a	n/a	n/a	n/a	n/a	n/a		
20°		n/a	n/a	n/a	n/a	n/a	n/a		
10°		n/a	n/a	n/a	n/a	n/a	n/a		
0°		n/a	n/a	n/a	n/a	n/a	n/a		

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Antenna	Operation mode	Lid angle	802.11b	802.11ac(80M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	802.11ac(80M) 5.9G	
Tx2	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Laptop	40°	19.85	17.84	17.90	16.30	15.76	16.31	
		35°	19.86	17.87	17.93	16.28	15.75	16.34	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	32°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
		34°	n/a	n/a	n/a	n/a	n/a	n/a	
		35°	19.97	17.80	17.82	16.34	15.83	16.39	
	Laptop	36°	19.84	17.83	17.93	16.32	15.71	16.46	
		37°	19.96	17.90	17.93	16.30	15.79	16.39	
		38°	19.90	17.91	17.91	16.31	15.74	16.34	
		39°	19.91	17.80	17.90	16.35	15.86	16.44	
		40°	19.97	17.75	17.79	16.18	15.77	16.39	
		50°	19.98	17.91	17.78	16.36	15.85	16.32	
		60°	19.96	17.87	17.92	16.32	15.73	16.48	
		70°	19.99	17.82	17.75	16.28	15.72	16.38	
		80°	19.85	17.75	17.87	16.32	15.75	16.32	
		90°	19.81	17.74	17.79	16.33	15.86	16.36	
		100°	19.98	17.88	17.92	16.36	15.79	16.37	
		110°	19.86	17.81	17.91	16.18	15.74	16.37	
		120°	19.84	17.87	17.80	16.19	15.85	16.41	
		Flat	130°	15.34	14.42	13.80	13.80	14.44	16.42
	125°		19.96	17.74	17.83	16.22	15.75	16.36	
	Laptop	126°	19.96	17.93	17.82	16.31	15.71	16.41	
		127°	19.81	17.90	17.76	16.25	15.70	16.47	
		128°	19.84	17.79	17.78	16.33	15.79	16.33	
		129°	19.80	17.77	17.93	16.27	15.75	16.39	
	Flat	130°	15.48	14.42	13.84	13.80	14.30	16.37	
		131°	15.33	14.25	13.98	13.96	14.38	16.31	
		132°	15.45	14.34	13.94	13.96	14.31	16.39	
		133°	15.44	14.26	13.86	13.93	14.40	16.43	
		134°	15.34	14.34	13.85	13.92	14.39	16.31	
		135°	15.49	14.34	13.92	13.86	14.41	16.32	
		145°	15.38	14.41	13.83	13.88	14.41	16.34	
		155°	15.49	14.36	13.89	13.83	14.44	16.41	
		165°	15.48	14.38	13.82	13.94	14.48	16.46	
		175°	15.39	14.34	13.99	13.82	14.47	16.33	
		185°	15.49	14.42	13.96	13.92	14.43	16.38	
		195°	15.33	14.38	13.93	13.82	14.47	16.36	
		Tent (Not Horizontal)	205°	15.33	14.31	13.91	13.81	14.31	16.40
		Stand mode (Horizontal)	205°	19.92	17.87	17.91	16.34	15.76	16.49
	Flat	200°	15.43	14.43	13.94	13.94	14.44	16.43	
		201°	15.43	14.33	13.93	13.82	14.39	16.38	
	Tent (Not Horizontal)	202°	15.46	14.42	13.87	13.94	14.31	16.33	
203°		15.35	14.44	13.80	13.93	14.41	16.49		
204°		15.39	14.32	13.82	13.94	14.29	16.34		
205°		15.40	14.32	13.80	13.84	14.35	16.34		
215°		15.33	14.42	13.90	13.85	14.41	16.33		
225°		15.46	14.40	13.86	13.97	14.30	16.46		
235°		15.34	14.44	13.83	13.82	14.44	16.47		
245°		15.32	14.32	13.93	13.89	14.36	16.39		
255°		15.36	14.34	13.82	13.85	14.48	16.48		
265°		15.31	14.41	13.96	13.86	14.29	16.46		
275°		15.38	14.29	13.88	13.87	14.40	16.31		
285°		15.48	14.32	13.83	13.86	14.46	16.47		
295°		15.40	14.25	13.81	13.87	14.42	16.30		
305°		15.36	14.40	13.92	13.92	14.39	16.34		
315°		15.32	14.43	13.84	13.87	14.33	16.37		
325°		15.49	14.30	13.87	13.88	14.43	16.35		
335°		15.32	14.26	13.89	13.83	14.36	16.32		
Stand mode (Horizontal)		201°	19.96	17.82	17.81	16.37	15.81	16.44	
		202°	19.97	17.88	17.77	16.21	15.75	16.37	
		203°	19.98	17.85	17.82	16.28	15.88	16.41	
	204°	19.90	17.92	17.84	16.23	15.74	16.33		
	205°	19.89	17.80	17.81	16.30	15.72	16.32		
	215°	19.86	17.83	17.86	16.35	15.86	16.44		
	225°	19.92	17.79	17.78	16.27	15.80	16.45		
	235°	19.83	17.75	17.82	16.24	15.76	16.33		
	245°	19.93	17.77	17.81	16.31	15.71	16.48		
	255°	19.92	17.89	17.84	16.30	15.79	16.38		
	265°	19.92	17.83	17.81	16.33	15.79	16.31		
	275°	19.98	17.90	17.80	16.18	15.85	16.48		
	285°	19.83	17.83	17.93	16.31	15.80	16.47		
	295°	19.89	17.81	17.93	16.29	15.85	16.30		
	305°	19.81	17.75	17.88	16.30	15.85	16.32		
	315°	19.91	17.80	17.83	16.22	15.73	16.32		
	325°	19.97	17.89	17.75	16.29	15.77	16.30		
	335°	19.86	17.77	17.80	16.30	15.71	16.48		
Tablet	345°	15.37	14.42	13.96	13.95	14.34	16.40		
Tent (Not Horizontal)	340°	15.36	14.44	13.94	13.84	14.31	16.35		
Stand mode (Horizontal)	340°	19.89	17.76	17.88	16.23	15.75	16.46		
Tablet	341°	15.35	14.30	13.83	13.93	14.45	16.44		
	342°	15.34	14.38	13.87	13.84	14.34	16.45		
	343°	15.45	14.25	13.96	13.94	14.38	16.36		
	344°	15.34	14.32	13.95	13.84	14.29	16.31		
	345°	15.34	14.34	13.96	13.90	14.46	16.48		
	355°	15.40	14.33	13.94	13.91	14.29	16.33		
Tablet	360°	15.36	14.34	13.94	13.95	14.38	16.41		
Tablet	350°	15.48	14.36	13.84	13.99	14.29	16.35		
Tent (Not Horizontal)	340°	15.34	14.43	13.96	13.80	14.29	16.35		
Stand mode (Horizontal)	340°	19.93	17.83	17.79	16.32	15.85	16.44		

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Tx2	Tablet	345°	15.34	14.25	13.86	13.85	14.40	16.45
		344°	15.44	14.26	13.85	13.93	14.43	16.46
		343°	15.36	14.34	13.85	13.92	14.44	16.35
		342°	15.48	14.41	13.91	13.85	14.43	16.43
		341°	15.37	14.28	13.95	13.98	14.45	16.37
	Tent (Not Horizontal)	340°	15.32	14.33	13.87	13.85	14.48	16.49
		339°	15.34	14.36	13.89	13.95	14.38	16.46
		338°	15.41	14.30	13.84	13.97	14.34	16.47
		337°	15.31	14.42	13.98	13.97	14.29	16.47
		336°	15.39	14.25	13.81	13.96	14.38	16.30
		335°	15.31	14.37	13.85	13.90	14.33	16.31
		325°	15.32	14.29	13.89	13.80	14.40	16.49
		315°	15.45	14.36	13.92	13.81	14.43	16.40
		305°	15.40	14.41	13.91	13.86	14.37	16.41
		295°	15.39	14.32	13.90	13.91	14.45	16.43
		285°	15.31	14.29	13.91	13.91	14.32	16.40
		275°	15.46	14.29	13.82	13.88	14.47	16.40
		265°	15.40	14.33	13.90	13.83	14.37	16.42
		255°	15.43	14.26	13.89	13.92	14.44	16.46
		245°	15.35	14.26	13.83	13.86	14.47	16.40
		235°	15.43	14.28	13.90	13.85	14.32	16.46
		225°	15.38	14.33	13.85	13.92	14.48	16.44
		215°	15.42	14.38	13.97	13.82	14.36	16.38
		205°	15.38	14.39	13.89	13.85	14.30	16.30
		Stand mode (Horizontal)	340°	19.83	17.74	17.74	16.36	15.87
	339°		19.89	17.74	17.85	16.24	15.72	16.34
	338°		19.80	17.85	17.86	16.23	15.80	16.38
	337°		19.97	17.74	17.93	16.26	15.83	16.46
	336°		19.83	17.84	17.74	16.37	15.88	16.48
	335°		19.85	17.93	17.78	16.24	15.73	16.30
	325°		19.99	17.81	17.87	16.31	15.78	16.49
	315°		19.99	17.91	17.83	16.23	15.71	16.30
	305°		19.81	17.92	17.78	16.28	15.76	16.30
	295°		19.81	17.90	17.91	16.24	15.80	16.37
	285°		19.96	17.84	17.79	16.36	15.87	16.32
	275°		19.84	17.84	17.90	16.31	15.86	16.40
	265°		19.80	17.90	17.78	16.19	15.89	16.39
	255°		19.96	17.76	17.78	16.30	15.72	16.45
	245°		19.86	17.80	17.88	16.23	15.73	16.34
	235°	19.99	17.83	17.75	16.35	15.84	16.30	
	225°	19.93	17.81	17.83	16.37	15.81	16.40	
	215°	19.99	17.86	17.77	16.32	15.71	16.36	
	205°	19.83	17.76	17.74	16.30	15.85	16.33	
	Flat	195°	15.36	14.36	13.91	13.95	14.48	16.40
		200°	15.48	14.38	13.96	13.88	14.42	16.35
	Tent (Not Horizontal)	205°	15.30	14.42	13.93	13.90	14.42	16.33
		204°	15.49	14.34	13.83	13.93	14.36	16.35
		203°	15.32	14.29	13.92	13.96	14.38	16.36
		202°	15.36	14.40	13.84	13.93	14.48	16.39
		201°	15.33	14.36	13.83	13.87	14.48	16.37

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Tx2	Stand mode (Horizontal)	205°	19.97	17.83	17.78	16.26	15.87	16.45	
		204°	19.84	17.85	17.74	16.34	15.85	16.34	
		203°	19.87	17.92	17.90	16.23	15.78	16.32	
		202°	19.85	17.92	17.79	16.32	15.71	16.33	
		201°	19.87	17.93	17.90	16.18	15.72	16.38	
	Flat	200°	15.46	14.40	13.89	13.81	14.32	16.30	
		199°	15.44	14.41	13.82	13.97	14.44	16.30	
		198°	15.31	14.29	13.92	13.95	14.30	16.32	
		197°	15.39	14.36	13.82	13.82	14.33	16.38	
		196°	15.37	14.44	13.83	13.94	14.48	16.33	
		195°	15.46	14.35	13.83	13.98	14.45	16.38	
		185°	15.44	14.27	13.82	13.92	14.38	16.49	
		175°	15.37	14.28	13.82	13.92	14.29	16.31	
		165°	15.41	14.38	13.88	13.97	14.41	16.33	
		155°	15.49	14.32	13.87	13.97	14.30	16.34	
		145°	15.36	14.34	13.98	13.90	14.46	16.42	
		135°	15.49	14.31	13.92	13.81	14.31	16.40	
		Laptop	125°	19.84	17.88	17.79	16.26	15.84	16.33
		Flat	130°	15.48	14.39	13.93	13.85	14.33	16.32
		Laptop	129°	19.84	17.89	17.89	16.25	15.83	16.35
	128°		19.94	17.88	17.79	16.37	15.72	16.41	
	127°		19.99	17.74	17.77	16.32	15.88	16.30	
	126°		19.94	17.91	17.79	16.28	15.70	16.49	
	125°		19.95	17.85	17.85	16.29	15.80	16.41	
	115°		19.99	17.81	17.85	16.24	15.78	16.36	
	105°		19.99	17.89	17.78	16.34	15.84	16.49	
	95°		19.92	17.78	17.85	16.28	15.83	16.46	
	85°		19.85	17.84	17.75	16.37	15.77	16.33	
	75°		19.82	17.80	17.92	16.28	15.71	16.43	
	65°		19.97	17.86	17.74	16.29	15.89	16.33	
	55°		19.95	17.75	17.75	16.33	15.78	16.45	
	45°		19.87	17.74	17.82	16.22	15.78	16.31	
	35°		19.94	17.80	17.85	16.37	15.75	16.40	
	Lid close		25°	n/a	n/a	n/a	n/a	n/a	n/a
	30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Laptop	35°	19.95	17.82	17.87	16.18	15.87	16.44	
	Lid close	34°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
		32°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		0°	n/a	n/a	n/a	n/a	n/a	n/a	
	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	
		10°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Book mode	40°	15.46	14.27	13.93	13.88	14.48	16.48	
		35°	15.46	14.40	13.96	13.98	14.41	16.45	

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Tx2	Lid close	30°	n/a						
		31°	n/a						
		32°	n/a						
		33°	n/a						
		34°	n/a						
	Book mode	35°	15.34	14.40	13.95	13.80	14.33	16.49	
		36°	15.32	14.41	13.91	13.88	14.37	16.49	
		37°	15.37	14.31	13.92	13.85	14.32	16.40	
		38°	15.31	14.35	13.91	13.97	14.40	16.42	
		39°	15.45	14.29	13.91	13.82	14.29	16.48	
		40°	15.38	14.31	13.98	13.95	14.44	16.31	
		50°	15.37	14.43	13.87	13.96	14.42	16.43	
		60°	15.44	14.44	13.88	13.82	14.39	16.44	
		70°	15.42	14.37	13.90	13.98	14.33	16.48	
		80°	15.38	14.41	13.96	13.97	14.46	16.31	
		90°	15.47	14.32	13.86	13.84	14.39	16.36	
		100°	15.36	14.35	13.98	13.95	14.34	16.43	
		110°	15.43	14.28	13.89	13.93	14.42	16.42	
		120°	15.44	14.38	13.87	13.84	14.42	16.47	
		130°	15.36	14.32	13.99	13.93	14.38	16.38	
		140°	15.40	14.25	13.96	13.82	14.35	16.43	
		150°	15.41	14.36	13.98	13.80	14.39	16.31	
		160°	15.44	14.27	13.92	13.99	14.41	16.43	
		170°	15.35	14.27	13.86	13.96	14.47	16.39	
		180°	15.45	14.36	13.96	13.99	14.35	16.36	
		190°	15.44	14.26	13.94	13.84	14.41	16.34	
		199°	15.37	14.38	13.80	13.96	14.48	16.30	
		Book mode	190°	15.41	14.34	13.87	13.85	14.29	16.49
			180°	15.47	14.34	13.81	13.93	14.38	16.36
			170°	15.37	14.34	13.80	13.86	14.37	16.43
	160°		15.48	14.42	13.96	13.93	14.48	16.37	
	150°		15.38	14.40	13.86	13.87	14.45	16.33	
	140°		15.30	14.35	13.92	13.87	14.41	16.40	
	130°		15.48	14.35	13.85	13.96	14.40	16.38	
	120°		15.32	14.29	13.89	13.81	14.42	16.37	
	110°		15.43	14.40	13.82	13.94	14.33	16.35	
	100°		15.30	14.31	13.84	13.82	14.34	16.40	
	90°		15.47	14.32	13.92	13.96	14.30	16.38	
	80°		15.48	14.26	13.81	13.98	14.41	16.47	
	70°		15.49	14.25	13.83	13.97	14.41	16.48	
	60°		15.46	14.44	13.93	13.98	14.40	16.49	
	50°		15.42	14.38	13.80	13.91	14.33	16.41	
	40°	15.43	14.25	13.81	13.85	14.34	16.47		
	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	
	Book mode	35°	15.45	14.28	13.88	13.83	14.34	16.41	
	Lid close	34°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
		32°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
20°		n/a	n/a	n/a	n/a	n/a	n/a		
10°		n/a	n/a	n/a	n/a	n/a	n/a		
0°		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 4cm<sup>2</sup> 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 <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Table 1 to [§ 1.1310\(e\)\(1\)](#) - Limits for Maximum Permissible Exposure (MPE)

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## 6 MAXIMUM OUTPUT POWER

### 6.1 WLAN

#### Notebook mode

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	20.50	20.49
		2	2417		20.50	20.39
		6	2437		20.50	20.41
		10	2457		19.00	18.94
		11	2462		19.50	19.46
		12	2467		12.50	12.16
		13	2472		6.00	5.77
	802.11g	1	2412	6Mbps	18.00	17.71
		2	2417		18.50	18.43
		6	2437		21.50	21.30
		10	2457		19.00	18.90
		11	2462		17.00	16.66
		12	2467		16.50	16.27
		13	2472		10.50	10.24
	802.11n20-HT0	1	2412	MCS0	17.50	17.44
		2	2417		19.00	18.74
		6	2437		21.50	21.20
		10	2457		18.00	17.71
		11	2462		16.00	15.69
		12	2467		16.00	15.83
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.33
		2	2417		19.00	18.71
		6	2437		21.50	21.27
		10	2457		18.00	17.78
		11	2462		16.00	15.75
		12	2467		16.00	15.73
	802.11ax20-HE0	1	2412	MCS0	17.50	17.23
		2	2417		19.00	18.92
		6	2437		21.50	21.33
		10	2457		18.00	17.86
		11	2462		16.00	15.67
		12	2467		16.00	15.90
	802.11n40-HT0	3	2422	MCS0	16.50	16.30
		4	2427		16.50	16.37
		6	2437		16.50	16.21
		8	2447		15.00	14.74
		9	2452		15.00	14.66
		10	2457		15.00	14.77
	802.11ac40-VHT0	3	2422	MCS0	16.50	16.37
		4	2427		16.50	16.43
		6	2437		16.50	16.37
		8	2447		15.00	14.89
		9	2452		15.00	14.73
		10	2457		15.00	14.74
	802.11ax40-HE0	3	2422	MCS0	16.50	16.37
		4	2427		16.50	16.43
		6	2437		16.50	16.37
		8	2447		15.00	14.77
		9	2452		15.00	14.74
		10	2457		15.00	14.77
	802.11ac40-VHT0	3	2422	MCS0	16.50	16.16
		4	2427		16.50	16.27
		6	2437		16.50	16.24
		8	2447		15.00	14.77
		9	2452		15.00	14.74
		10	2457		15.00	14.77
	802.11ax40-HE0	3	2422	MCS0	16.50	16.16
		4	2427		16.50	16.27
		6	2437		16.50	16.24
		8	2447		15.00	14.77
9		2452	15.00		14.74	
10		2457	15.00		14.77	
802.11ac40-VHT0	3	2422	MCS0	16.50	16.16	
	4	2427		16.50	16.27	
	6	2437		16.50	16.24	
	8	2447		15.00	14.77	
	9	2452		15.00	14.74	
	10	2457		15.00	14.77	

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	16.50	16.42
		40	5200		16.50	16.18
		44	5220		16.50	16.23
		48	5240		16.50	16.29
	802.11n20-HT0	36	5180	MCS0	16.50	16.34
		40	5200		17.00	16.81
		44	5220		17.00	16.80
		48	5240		17.00	16.82
	802.11ac20-VHT0	36	5180	MCS0	16.50	16.30
		40	5200		17.00	16.73
		44	5220		17.00	16.75
		48	5240		17.00	16.74
	802.11ax20-HE0	36	5180	MCS0	16.50	16.17
		40	5200		17.00	16.77
		44	5220		17.00	16.80
		48	5240		17.00	16.79
	802.11n40-HT0	38	5190	MCS0	15.00	14.95
		46	5230		18.50	18.45
802.11ac40-VHT0	38	5190	MCS0	15.00	14.83	
	46	5230		18.50	18.17	
802.11ax40-HE0	38	5190	MCS0	15.00	14.84	
	46	5230		18.50	18.44	
802.11ac80-VHT0	42	5210	MCS0	13.50	13.34	
	42	5210		13.50	13.36	
802.11ac160-VHT0	50	5250	MCS0	9.50	9.17	
	50	5250		9.50	9.37	
Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	17.00	16.79
		56	5280		17.00	16.90
		60	5300		17.00	16.91
		64	5320		16.50	16.18
	802.11n20-HT0	52	5260	MCS0	17.00	16.79
		56	5280		17.00	16.72
		60	5300		17.00	16.70
		64	5320		17.00	16.72
	802.11ac20-VHT0	52	5260	MCS0	17.00	16.92
		56	5280		17.00	16.78
		60	5300		17.00	16.69
		64	5320		17.00	16.70
	802.11ax20-HE0	52	5260	MCS0	17.00	16.70
		56	5280		17.00	16.86
		60	5300		17.00	16.86
		64	5320		17.00	16.94
	802.11n40-HT0	54	5270	MCS0	18.50	18.46
		62	5310		15.00	14.97
802.11ac40-VHT0	54	5270	MCS0	18.50	18.42	
	62	5310		15.00	14.79	
802.11ax40-HE0	54	5270	MCS0	18.50	18.17	
	62	5310		15.00	14.77	
802.11ac80-VHT0	58	5290	MCS0	11.00	10.86	
	58	5290		11.00	10.72	

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	16.42
		120	5600		16.50	16.32
		140	5700		14.50	14.43
		144	5720		17.00	16.82
	802.11n20-HT0	100	5500	MCS0	16.50	16.41
		120	5600		17.00	16.88
		140	5700		13.00	12.74
		144	5720		17.50	17.44
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.30
		120	5600		17.00	16.73
		140	5700		13.00	12.93
		144	5720		17.50	17.41
	802.11ax20-HE0	100	5500	MCS0	16.50	16.40
		120	5600		17.00	16.89
		140	5700		13.00	12.69
		144	5720		17.50	17.16
	802.11n40-HT0	102	5510	MCS0	15.50	15.47
		118	5590		18.50	18.43
		134	5670		15.50	15.20
		142	5710		18.50	18.48
	802.11ac40-VHT0	102	5510	MCS0	15.50	15.27
		118	5590		18.50	18.24
		134	5670		15.50	15.28
		142	5710		18.50	18.22
	802.11ax40-HE0	102	5510	MCS0	15.50	15.29
		118	5590		18.50	18.32
		134	5670		15.50	15.24
		142	5710		18.50	18.24
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.91
		122	5610		14.50	14.25
		138	5690		17.00	16.65
	802.11ax80-HE0	106	5530	MCS0	14.00	13.86
122		5610	14.50		14.29	
138		5690	17.00		16.81	
802.11ac160-VHT0	114	5570	MCS0	10.50	10.26	
802.11ax160-HE0	114	5570	MCS0	10.50	10.28	
Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	19.50	19.43
		157	5785		19.50	19.49
		165	5825		19.50	19.48
	802.11n20-HT0	149	5745	MCS0	19.50	19.32
		157	5785		19.50	19.22
		165	5825		19.50	19.38
	802.11ac20-VHT0	149	5745	MCS0	19.50	19.22
		157	5785		19.50	19.22
		165	5825		19.50	19.28
	802.11ax20-HE0	149	5745	MCS0	19.50	19.37
		157	5785		19.50	19.36
		165	5825		19.50	19.32
	802.11n40-HT0	151	5755	MCS0	18.50	18.27
		159	5795		18.50	18.39
	802.11ac40-VHT0	151	5755	MCS0	18.50	18.19
		159	5795		18.50	18.26
	802.11ax40-HE0	151	5755	MCS0	18.50	18.16
		159	5795		18.50	18.35
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.33
	802.11ax80-HE0	155	5775	MCS0	16.50	16.41

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Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.50	13.38
		173	5865		13.50	13.42
		177	5885		13.50	13.33
	802.11n20-HT0	169	5845	MCS0	13.50	13.35
		173	5865		14.00	13.86
		177	5885		13.50	13.25
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.28
		173	5865		14.00	13.85
		177	5885		13.50	13.38
	802.11ax20-HE0	169	5845	MCS0	13.50	13.20
		173	5865		14.00	13.95
		177	5885		13.50	13.38
	802.11ac80-VHT0	171	5855	MCS0	17.00	16.98
	802.11ax80-HE0	171	5855	MCS0	17.00	16.76

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	20.50	20.45
		2	2417		20.50	20.22
		6	2437		20.50	20.47
		10	2457		19.00	18.78
		11	2462		19.50	19.41
		12	2467		12.50	12.32
	802.11g	13	2472	6Mbps	6.00	5.94
		1	2412		18.00	17.74
		2	2417		18.50	18.39
		6	2437		21.50	21.17
		10	2457		19.00	18.70
		11	2462		17.00	16.86
	802.11n20-HT0	12	2467	MCS0	16.50	16.41
		13	2472		10.50	10.27
		1	2412		17.50	17.28
		2	2417		19.00	18.73
		6	2437		21.50	21.38
		10	2457		18.00	17.82
	802.11ac20-VHT0	11	2462	MCS0	16.00	15.69
		12	2467		16.00	15.88
		13	2472		5.50	5.17
		1	2412		17.50	17.41
		2	2417		19.00	18.78
		6	2437		21.50	21.37
	802.11ax20-HE0	10	2457	MCS0	18.00	17.74
		11	2462		16.00	15.82
		12	2467		16.00	15.91
		13	2472		5.50	5.42
		1	2412		17.50	17.39
		2	2417		19.00	18.91
	802.11n40-HT0	6	2437	MCS0	21.50	21.22
		10	2457		18.00	17.85
		11	2462		16.00	15.80
		12	2467		16.00	15.81
		13	2472		5.50	5.34
		3	2422		16.50	16.22
	802.11ac40-VHT0	4	2427	MCS0	16.50	16.38
		6	2437		16.50	16.35
		8	2447		15.00	14.88
		9	2452		15.00	14.79
		10	2457		15.00	14.73
		11	2462		13.00	12.89
	802.11ax40-HE0	3	2422	MCS0	16.50	16.37
		4	2427		16.50	16.36
		6	2437		16.50	16.31
		8	2447		15.00	14.78
		9	2452		15.00	14.86
		10	2457		15.00	14.85
		11	2462	MCS0	13.00	12.65
		3	2422		16.50	16.42
		4	2427		16.50	16.29
		6	2437		16.50	16.32
8		2447	15.00		14.85	
9		2452	15.00		14.69	
	10	2457		15.00	14.86	
	11	2462		13.00	12.73	

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	16.50	16.17
		40	5200		16.50	16.21
		44	5220		16.50	16.32
		48	5240		16.50	16.22
	802.11n20-HT0	36	5180	MCS0	16.50	16.26
		40	5200		17.00	16.90
		44	5220		17.00	16.88
		48	5240		17.00	16.65
	802.11ac20-VHT0	36	5180	MCS0	16.50	16.30
		40	5200		17.00	16.72
		44	5220		17.00	16.74
		48	5240		17.00	16.70
	802.11ax20-HE0	36	5180	MCS0	16.50	16.22
		40	5200		17.00	16.75
		44	5220		17.00	16.72
		48	5240		17.00	16.88
802.11n40-HT0	38	5190	MCS0	15.00	14.98	
	46	5230		18.50	18.46	
802.11ac40-VHT0	38	5190	MCS0	15.00	14.90	
	46	5230		18.50	18.41	
802.11ax40-HE0	38	5190	MCS0	15.00	14.71	
	46	5230		18.50	18.31	
802.11ac80-VHT0	42	5210	MCS0	13.50	13.40	
	42	5210		13.50	13.20	
802.11ac160-VHT0	50	5250	MCS0	9.50	9.30	
	50	5250		9.50	9.20	
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	17.00	16.85
		56	5280		17.00	16.73
		60	5300		17.00	16.91
		64	5320		16.50	16.34
	802.11n20-HT0	52	5260	MCS0	17.00	16.87
		56	5280		17.00	16.76
		60	5300		17.00	16.66
		64	5320		17.00	16.82
	802.11ac20-VHT0	52	5260	MCS0	17.00	16.75
		56	5280		17.00	16.88
		60	5300		17.00	16.68
		64	5320		17.00	16.69
	802.11ax20-HE0	52	5260	MCS0	17.00	16.80
		56	5280		17.00	16.76
		60	5300		17.00	16.80
		64	5320		17.00	16.88
802.11n40-HT0	54	5270	MCS0	18.50	18.47	
	62	5310		15.00	14.98	
802.11ac40-VHT0	54	5270	MCS0	18.50	18.31	
	62	5310		15.00	14.85	
802.11ax40-HE0	54	5270	MCS0	18.50	18.37	
	62	5310		15.00	14.90	
802.11ac80-VHT0	58	5290	MCS0	11.00	10.66	
	58	5290		11.00	10.74	

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	16.44
		120	5600		16.50	16.19
		140	5700		14.50	14.37
		144	5720		17.00	16.69
	802.11n20-HT0	MCS0	100	5500	16.50	16.40
			120	5600	17.00	16.83
			140	5700	13.00	12.73
			144	5720	17.50	17.41
	802.11ac20-VHT0	MCS0	100	5500	16.50	16.32
			120	5600	17.00	16.77
			140	5700	13.00	12.90
			144	5720	17.50	17.23
	802.11ax20-HE0	MCS0	100	5500	16.50	16.26
			120	5600	17.00	16.79
			140	5700	13.00	12.88
			144	5720	17.50	17.36
	802.11n40-HT0	MCS0	102	5510	15.50	15.41
			118	5590	18.50	18.24
			134	5670	15.50	15.48
			142	5710	18.50	18.49
	802.11ac40-VHT0	MCS0	102	5510	15.50	15.24
			118	5590	18.50	18.41
			134	5670	15.50	15.37
			142	5710	18.50	18.27
	802.11ax40-HE0	MCS0	102	5510	15.50	15.18
			118	5590	18.50	18.23
			134	5670	15.50	15.16
			142	5710	18.50	18.19
	802.11ac80-VHT0	MCS0	106	5530	14.00	13.81
			122	5610	14.50	14.23
			138	5690	17.00	16.77
	802.11ax80-HE0	MCS0	106	5530	14.00	13.84
122			5610	14.50	14.36	
138			5690	17.00	16.68	
802.11ac160-VHT0	MCS0	114	5570	10.50	10.45	
802.11ax160-HE0	MCS0	114	5570	10.50	10.34	
Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	19.50	19.47
		157	5785		19.50	19.48
		165	5825		19.50	19.49
	802.11n20-HT0	MCS0	149	5745	19.50	19.26
			157	5785	19.50	19.21
			165	5825	19.50	19.45
	802.11ac20-VHT0	MCS0	149	5745	19.50	19.31
			157	5785	19.50	19.36
			165	5825	19.50	19.38
	802.11ax20-HE0	MCS0	149	5745	19.50	19.27
			157	5785	19.50	19.41
			165	5825	19.50	19.23
	802.11n40-HT0	MCS0	151	5755	18.50	18.34
			159	5795	18.50	18.17
	802.11ac40-VHT0	MCS0	151	5755	18.50	18.15
			159	5795	18.50	18.16
	802.11ax40-HE0	MCS0	151	5755	18.50	18.29
			159	5795	18.50	18.16
	802.11ac80-VHT0	MCS0	155	5775	16.50	16.23
	802.11ax80-HE0	MCS0	155	5775	16.50	16.28

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Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.50	13.33
		173	5865		13.50	13.33
		177	5885		13.50	13.40
	802.11n20-HT0	169	5845	MCS0	13.50	13.28
		173	5865		14.00	13.91
		177	5885		13.50	13.37
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.25
		173	5865		14.00	13.83
		177	5885		13.50	13.29
	802.11ax20-HE0	169	5845	MCS0	13.50	13.32
		173	5865		14.00	13.86
		177	5885		13.50	13.24
	802.11ac80-VHT0	171	5855	MCS0	17.00	16.98
	802.11ax80-HE0	171	5855	MCS0	17.00	16.86

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Tablet / Book mode

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.97
		2	2417		16.00	15.73
		6	2437		16.00	15.96
		10	2457		16.00	15.86
		11	2462		16.00	16.00
		12	2467		12.50	12.39
		13	2472		6.00	5.68
	802.11g	1	2412	6Mbps	16.00	15.92
		2	2417		16.00	15.67
		6	2437		16.00	15.87
		10	2457		16.00	15.74
		11	2462		16.00	15.93
		12	2467		16.00	15.78
		13	2472		10.50	10.38
	802.11n20-HT0	1	2412	MCS0	16.00	15.89
		2	2417		16.00	15.68
		6	2437		16.00	15.94
		10	2457		16.00	15.80
		11	2462		16.00	15.80
		12	2467		16.00	15.91
		13	2472		5.50	5.43
	802.11ac20-VHT0	1	2412	MCS0	16.00	15.81
		2	2417		16.00	15.66
		6	2437		16.00	15.71
		10	2457		16.00	15.73
		11	2462		16.00	15.67
		12	2467		16.00	15.72
		13	2472		5.50	5.25
	802.11ax20-HE0	1	2412	MCS0	16.00	15.84
		2	2417		16.00	15.73
		6	2437		16.00	15.85
		10	2457		16.00	15.69
		11	2462		16.00	15.90
		12	2467		16.00	15.73
		13	2472		5.50	5.35
	802.11n40-HT0	3	2422	MCS0	16.00	15.66
		4	2427		16.00	15.73
		6	2437		16.00	15.72
		8	2447		15.00	14.71
		9	2452		15.00	14.87
		10	2457		15.00	14.71
		11	2462		13.00	12.75
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.67
		4	2427		16.00	15.82
		6	2437		16.00	15.79
		8	2447		15.00	14.70
		9	2452		15.00	14.72
		10	2457		15.00	14.77
		11	2462		13.00	12.69
	802.11ax40-HE0	3	2422	MCS0	16.00	15.94
		4	2427		16.00	15.90
		6	2437		16.00	15.93
8		2447	15.00		14.78	
9		2452	15.00		14.65	
10		2457	15.00		14.81	
11		2462	13.00		12.75	

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	14.86
		40	5200		15.00	14.86
		44	5220		15.00	14.87
		48	5240		15.00	14.86
	802.11n20-HT0	36	5180	MCS0	15.00	14.82
		40	5200		15.00	14.89
		44	5220		15.00	14.93
		48	5240		15.00	14.71
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.88
		40	5200		15.00	14.69
		44	5220		15.00	14.75
		48	5240		15.00	14.66
	802.11ax20-HE0	36	5180	MCS0	15.00	14.81
		40	5200		15.00	14.76
		44	5220		15.00	14.79
		48	5240		15.00	14.85
802.11n40-HT0	38	5190	MCS0	15.00	14.99	
	46	5230		15.00	14.98	
802.11ac40-VHT0	38	5190	MCS0	15.00	14.81	
	46	5230		15.00	14.69	
802.11ax40-HE0	38	5190	MCS0	15.00	14.78	
	46	5230		15.00	14.88	
802.11ac80-VHT0	42	5210	MCS0	13.50	13.40	
802.11ax80-HE0	42	5210	MCS0	13.50	13.31	
802.11ac160-VHT0	50	5250	MCS0	9.50	9.26	
802.11ax160-HE0	50	5250	MCS0	9.50	9.32	
Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.50	14.38
		56	5280		14.50	14.37
		60	5300		14.50	14.35
		64	5320		14.50	14.34
	802.11n20-HT0	52	5260	MCS0	14.50	14.32
		56	5280		14.50	14.30
		60	5300		14.50	14.25
		64	5320		14.50	14.29
	802.11ac20-VHT0	52	5260	MCS0	14.50	14.39
		56	5280		14.50	14.29
		60	5300		14.50	14.38
		64	5320		14.50	14.29
	802.11ax20-HE0	52	5260	MCS0	14.50	14.26
		56	5280		14.50	14.39
		60	5300		14.50	14.30
		64	5320		14.50	14.38
802.11n40-HT0	54	5270	MCS0	14.50	14.48	
	62	5310		14.50	14.49	
802.11ac40-VHT0	54	5270	MCS0	14.50	14.25	
	62	5310		14.50	14.31	
802.11ax40-HE0	54	5270	MCS0	14.50	14.29	
	62	5310		14.50	14.44	
802.11ac80-VHT0	58	5290	MCS0	11.00	10.92	
802.11ax80-HE0	58	5290	MCS0	11.00	10.91	

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Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.50	14.28
		120	5600		14.50	14.17
		140	5700		14.50	14.20
		144	5720		14.50	14.26
	802.11n20-HT0	MCS0	100	5500	14.50	14.36
			120	5600	14.50	14.27
			140	5700	13.00	12.74
			144	5720	14.50	14.20
	802.11ac20-VHT0	MCS0	100	5500	14.50	14.16
			120	5600	14.50	14.45
			140	5700	13.00	12.73
			144	5720	14.50	14.19
	802.11ax20-HE0	MCS0	100	5500	14.50	14.18
			120	5600	14.50	14.24
			140	5700	13.00	12.72
			144	5720	14.50	14.30
	802.11n40-HT0	MCS0	102	5510	14.50	14.19
			118	5590	14.50	14.33
			134	5670	14.50	14.28
			142	5710	14.50	14.17
	802.11ac40-VHT0	MCS0	102	5510	14.50	14.21
			118	5590	14.50	14.23
			134	5670	14.50	14.23
			142	5710	14.50	14.18
	802.11ax40-HE0	MCS0	102	5510	14.50	14.25
			118	5590	14.50	14.24
			134	5670	14.50	14.33
			142	5710	14.50	14.16
	802.11ac80-VHT0	MCS0	106	5530	14.00	13.95
			122	5610	14.50	14.40
			138	5690	14.50	14.46
	802.11ax80-HE0	MCS0	106	5530	14.00	13.70
122			5610	14.50	14.33	
138			5690	14.50	14.28	
802.11ac160-VHT0	MCS0	114	5570	10.50	10.35	
802.11ax160-HE0	MCS0	114	5570	10.50	10.39	
Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	14.65
		157	5785		15.00	14.73
		165	5825		15.00	14.81
	802.11n20-HT0	MCS0	149	5745	15.00	14.86
			157	5785	15.00	14.72
			165	5825	15.00	14.66
	802.11ac20-VHT0	MCS0	149	5745	15.00	14.88
			157	5785	15.00	14.73
			165	5825	15.00	14.67
	802.11ax20-HE0	MCS0	149	5745	15.00	14.76
			157	5785	15.00	14.79
			165	5825	15.00	14.76
	802.11n40-HT0	MCS0	151	5755	15.00	14.74
			159	5795	15.00	14.83
	802.11ac40-VHT0	MCS0	151	5755	15.00	14.86
			159	5795	15.00	14.90
	802.11ax40-HE0	MCS0	151	5755	15.00	14.76
			159	5795	15.00	14.79
	802.11ac80-VHT0	MCS0	155	5775	15.00	14.52
	802.11ax80-HE0	MCS0	155	5775	15.00	14.73

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Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.50	13.33
		173	5865		13.50	13.31
		177	5885		13.50	13.24
	802.11n20-HT0	169	5845	MCS0	13.50	13.26
		173	5865		14.00	13.72
		177	5885		13.50	13.35
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.21
		173	5865		14.00	13.92
		177	5885		13.50	13.22
	802.11ax20-HE0	169	5845	MCS0	13.50	13.32
		173	5865		14.00	13.86
		177	5885		13.50	13.40
	802.11ac80-VHT0	171	5855	MCS0	17.00	16.96
	802.11ax80-HE0	171	5855	MCS0	17.00	16.73

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.99
		2	2417		16.00	15.80
		6	2437		16.00	15.95
		10	2457		16.00	15.67
		11	2462		16.00	15.98
		12	2467		12.50	12.16
		13	2472		6.00	5.76
	802.11g	1	2412	6Mbps	16.00	15.81
		2	2417		16.00	15.88
		6	2437		16.00	15.76
		10	2457		16.00	15.68
		11	2462		16.00	15.86
		12	2467		16.00	15.74
		13	2472		10.50	10.23
	802.11n20-HT0	1	2412	MCS0	16.00	15.71
		2	2417		16.00	15.65
		6	2437		16.00	15.88
		10	2457		16.00	15.71
		11	2462		16.00	15.77
		12	2467		16.00	15.93
		13	2472		5.50	5.31
	802.11ac20-VHT0	1	2412	MCS0	16.00	15.89
		2	2417		16.00	15.88
		6	2437		16.00	15.70
		10	2457		16.00	15.85
		11	2462		16.00	15.72
		12	2467		16.00	15.72
		13	2472		5.50	5.17
	802.11ax20-HE0	1	2412	MCS0	16.00	15.69
		2	2417		16.00	15.68
		6	2437		16.00	15.82
		10	2457		16.00	15.79
		11	2462		16.00	15.82
		12	2467		16.00	15.67
		13	2472		5.50	5.28
	802.11n40-HT0	3	2422	MCS0	16.00	15.85
		4	2427		16.00	15.71
		6	2437		16.00	15.82
		8	2447		15.00	14.90
		9	2452		15.00	14.84
		10	2457		15.00	14.83
		11	2462		13.00	12.89
	802.11ac40-VHT0	3	2422	MCS0	16.00	15.84
		4	2427		16.00	15.73
		6	2437		16.00	15.83
		8	2447		15.00	14.70
		9	2452		15.00	14.83
		10	2457		15.00	14.78
		11	2462		13.00	12.77
	802.11ax40-HE0	3	2422	MCS0	16.00	15.73
		4	2427		16.00	15.73
		6	2437		16.00	15.95
		8	2447		15.00	14.81
		9	2452		15.00	14.76
10		2457	15.00		14.81	
11		2462	13.00		12.72	

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	14.74
		40	5200		15.00	14.69
		44	5220		15.00	14.84
		48	5240		15.00	14.95
	802.11n20-HT0	36	5180	MCS0	15.00	14.78
		40	5200		15.00	14.83
		44	5220		15.00	14.77
		48	5240		15.00	14.87
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.81
		40	5200		15.00	14.66
		44	5220		15.00	14.73
		48	5240		15.00	14.93
	802.11ax20-HE0	36	5180	MCS0	15.00	14.86
		40	5200		15.00	14.73
		44	5220		15.00	14.81
		48	5240		15.00	14.75
	802.11n40-HT0	38	5190	MCS0	15.00	14.98
		46	5230		15.00	14.96
802.11ac40-VHT0	38	5190	MCS0	15.00	14.78	
	46	5230		15.00	14.92	
802.11ax40-HE0	38	5190	MCS0	15.00	14.76	
	46	5230		15.00	14.81	
802.11ac80-VHT0	42	5210	MCS0	13.50	13.27	
	42	5210		13.50	13.19	
802.11ac160-VHT0	50	5250	MCS0	9.50	9.45	
	50	5250		9.50	9.23	
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.50	14.29
		56	5280		14.50	14.33
		60	5300		14.50	14.31
		64	5320		14.50	14.31
	802.11n20-HT0	52	5260	MCS0	14.50	14.25
		56	5280		14.50	14.26
		60	5300		14.50	14.38
		64	5320		14.50	14.38
	802.11ac20-VHT0	52	5260	MCS0	14.50	14.31
		56	5280		14.50	14.27
		60	5300		14.50	14.29
		64	5320		14.50	14.31
	802.11ax20-HE0	52	5260	MCS0	14.50	14.26
		56	5280		14.50	14.36
		60	5300		14.50	14.45
		64	5320		14.50	14.31
	802.11n40-HT0	54	5270	MCS0	14.50	14.47
		62	5310		14.50	14.49
802.11ac40-VHT0	54	5270	MCS0	14.50	14.27	
	62	5310		14.50	14.36	
802.11ax40-HE0	54	5270	MCS0	14.50	14.36	
	62	5310		14.50	14.41	
802.11ac80-VHT0	58	5290	MCS0	11.00	10.89	
	58	5290		11.00	10.80	

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.50	14.35
		120	5600		14.50	14.23
		140	5700		14.50	14.40
		144	5720		14.50	14.21
	802.11n20-HT0	MCS0	100	5500	14.50	14.27
			120	5600	14.50	14.35
			140	5700	13.00	12.66
			144	5720	14.50	14.31
	802.11ac20-VHT0	MCS0	100	5500	14.50	14.24
			120	5600	14.50	14.28
			140	5700	13.00	12.84
			144	5720	14.50	14.41
	802.11ax20-HE0	MCS0	100	5500	14.50	14.45
			120	5600	14.50	14.33
			140	5700	13.00	12.83
			144	5720	14.50	14.28
	802.11n40-HT0	MCS0	102	5510	14.50	14.45
			118	5590	14.50	14.44
			134	5670	14.50	14.20
			142	5710	14.50	14.39
	802.11ac40-VHT0	MCS0	102	5510	14.50	14.28
			118	5590	14.50	14.44
			134	5670	14.50	14.15
			142	5710	14.50	14.31
	802.11ax40-HE0	MCS0	102	5510	14.50	14.22
			118	5590	14.50	14.36
			134	5670	14.50	14.22
			142	5710	14.50	14.22
	802.11ac80-VHT0	MCS0	106	5530	14.00	13.90
			122	5610	14.50	14.46
			138	5690	14.50	14.48
	802.11ax80-HE0	MCS0	106	5530	14.00	13.68
122			5610	14.50	14.38	
138			5690	14.50	14.34	
802.11ac160-VHT0	MCS0	114	5570	10.50	10.29	
802.11ax160-HE0	MCS0	114	5570	10.50	10.31	
Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	14.70
		157	5785		15.00	14.92
		165	5825		15.00	14.73
	802.11n20-HT0	MCS0	149	5745	15.00	14.84
			157	5785	15.00	14.69
			165	5825	15.00	14.83
	802.11ac20-VHT0	MCS0	149	5745	15.00	14.79
			157	5785	15.00	14.79
			165	5825	15.00	14.75
	802.11ax20-HE0	MCS0	149	5745	15.00	14.89
			157	5785	15.00	14.93
			165	5825	15.00	14.87
	802.11n40-HT0	MCS0	151	5755	15.00	14.68
			159	5795	15.00	14.83
	802.11ac40-VHT0	MCS0	151	5755	15.00	14.69
			159	5795	15.00	14.66
	802.11ax40-HE0	MCS0	151	5755	15.00	14.69
			159	5795	15.00	14.87
802.11ac80-VHT0	MCS0	155	5775	15.00	14.99	
802.11ax80-HE0	MCS0	155	5775	15.00	14.77	

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Tx2						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	13.50	13.17
		173	5865		13.50	13.17
		177	5885		13.50	13.27
	802.11n20-HT0	169	5845	MCS0	13.50	13.34
		173	5865		14.00	13.72
		177	5885		13.50	13.24
	802.11ac20-VHT0	169	5845	MCS0	13.50	13.32
		173	5865		14.00	13.74
		177	5885		13.50	13.40
	802.11ax20-HE0	169	5845	MCS0	13.50	13.31
		173	5865		14.00	13.77
		177	5885		13.50	13.37
	802.11ac80-VHT0	171	5855	MCS0	17.00	16.98
	802.11ax80-HE0	171	5855	MCS0	17.00	16.67

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6.2 WIFI 6E

Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	7.50	7.33
		45	6175		7.00	6.76
		93	6415		7.00	6.89
	802.11ax40-HE0	3	5965	MCS0	10.00	9.94
		43	6165		10.00	9.77
		91	6405		10.00	9.86
	802.11ax80-HE0	7	5985	MCS0	13.00	12.75
		39	6145		13.00	12.91
		87	6385		13.00	12.86
	802.11ax160-HE0	15	6025	MCS0	14.50	14.50
		47	6185		14.50	13.99
		79	6345		14.50	14.49
Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	7.00	6.78
		105	6475		7.50	7.35
		113	6515		7.00	6.94
	802.11ax40-HE0	99	6445	MCS0	10.00	9.80
		107	6485		10.00	9.76
	802.11ax80-HE0	103	6465	MCS0	13.00	12.78
		119	6545		13.00	12.89
	802.11ax160-HE0	111	6505	MCS0	15.00	14.98
	Tx1					
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.79
		149	6695		7.50	7.26
		181	6855		7.00	6.81
	802.11ax40-HE0	115	6525	MCS0	10.50	10.27
		147	6685		10.00	9.81
		179	6845		10.00	9.86
	802.11ax80-HE0	135	6625	MCS0	13.00	12.80
		151	6705		13.00	12.94
		167	6785		13.00	12.77
	802.11ax160-HE0	143	6665	MCS0	15.00	14.95
		175	6825		15.00	14.97

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Tx1						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	7.00	6.81
		209	6995		7.00	6.79
		233	7115		7.50	7.27
	802.11ax40-HE0	187	6885	MCS0	10.00	9.78
		227	7085		10.50	10.42
	802.11ax80-HE0	183	6865	MCS0	13.00	12.93
		199	6945		13.00	12.99
		215	7025		12.50	12.42
	802.11ax160-HE0	207	6985	MCS0	11.50	11.37
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	7.50	7.42
		45	6175		7.00	6.80
		93	6415		7.00	6.86
	802.11ax40-HE0	3	5965	MCS0	10.00	9.78
		43	6165		10.00	9.95
		91	6405		10.00	9.86
	802.11ax80-HE0	7	5985	MCS0	13.00	12.79
		39	6145		13.00	12.91
		87	6385		13.00	12.80
	802.11ax160-HE0	15	6025	MCS0	14.50	14.49
		47	6185		14.50	14.47
		79	6345		14.50	14.45
Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	7.00	6.94
		105	6475		7.50	7.33
		113	6515		7.00	6.76
	802.11ax40-HE0	99	6445	MCS0	10.00	9.83
		107	6485		10.00	9.84
	802.11ax80-HE0	103	6465	MCS0	13.00	12.87
		119	6545		13.00	12.87
	802.11ax160-HE0	111	6505	MCS0	15.00	14.98

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Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.85
		149	6695		7.50	7.36
		181	6855		7.00	6.83
	802.11ax40-HE0	115	6525	MCS0	10.50	10.35
		147	6685		10.00	9.80
		179	6845		10.00	9.86
	802.11ax80-HE0	135	6625	MCS0	13.00	12.84
		151	6705		13.00	12.89
		167	6785		13.00	12.85
	802.11ax160-HE0	143	6665	MCS0	15.00	14.97
		175	6825		15.00	14.98
	Tx2					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	7.00	6.77
		209	6995		7.00	6.85
		233	7115		7.50	7.38
	802.11ax40-HE0	187	6885	MCS0	10.00	9.78
		227	7085		10.50	10.37
	802.11ax80-HE0	183	6865	MCS0	13.00	12.89
		199	6945		13.00	12.98
		215	7025		12.50	12.47
	802.11ax160-HE0	207	6985	MCS0	11.50	11.43

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### 6.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			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)
BR/EDR	CH 00	2402	6.00	5.90	6.00	5.55	6.00	5.51
	CH 39	2441		5.96		5.72		5.74
	CH 78	2480		5.83		5.66		5.65

### 6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	6	*NR
	CH 19	2440		
	CH 39	2480		
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	6	*NR
	CH 19	2440		
	CH 39	2480		

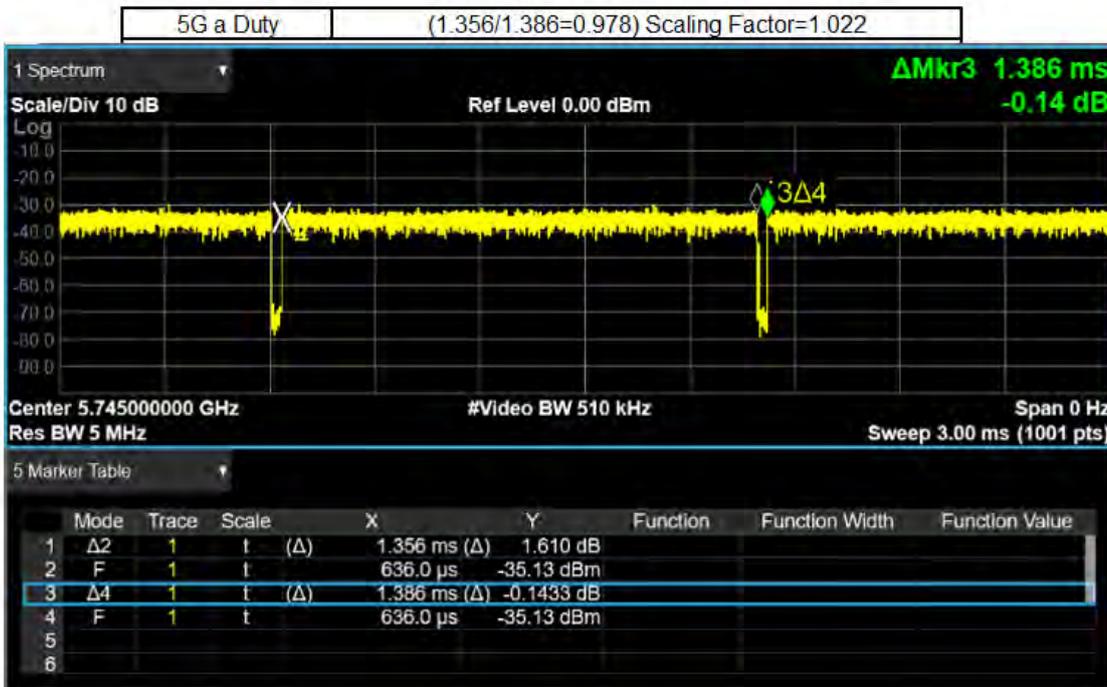
\*NR=Not required

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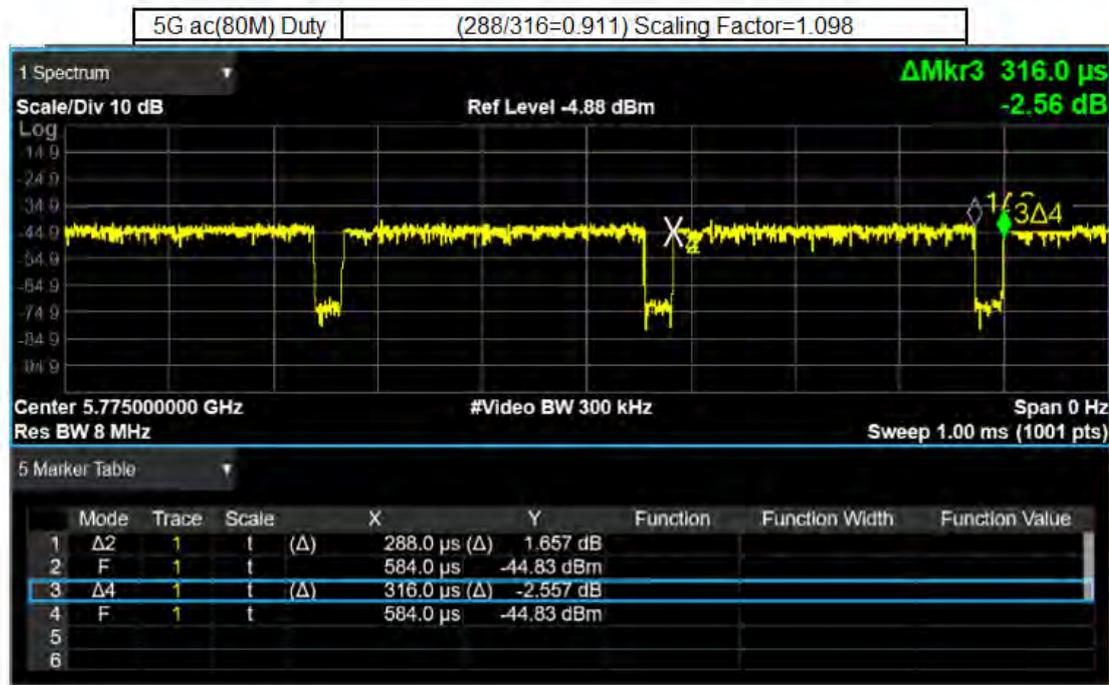
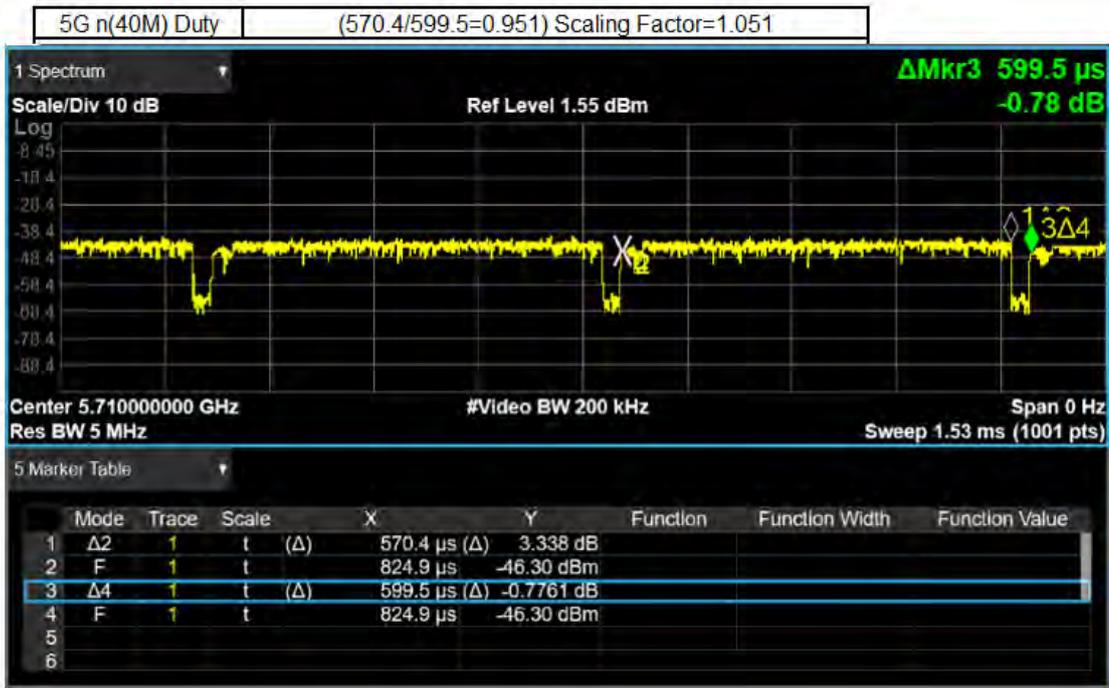
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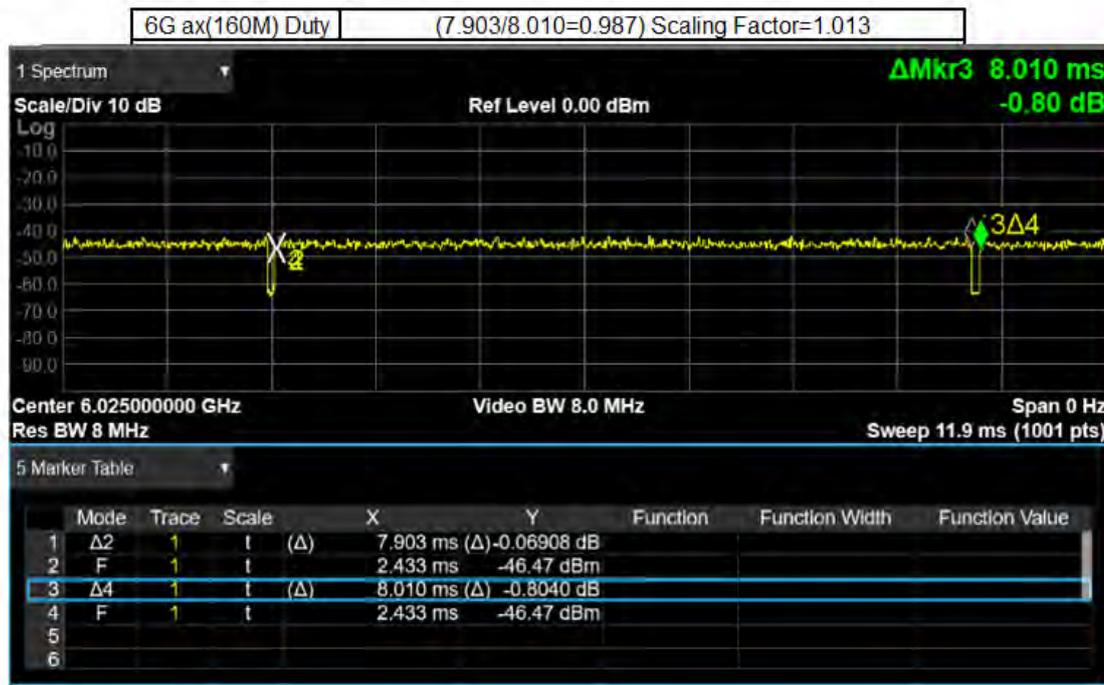
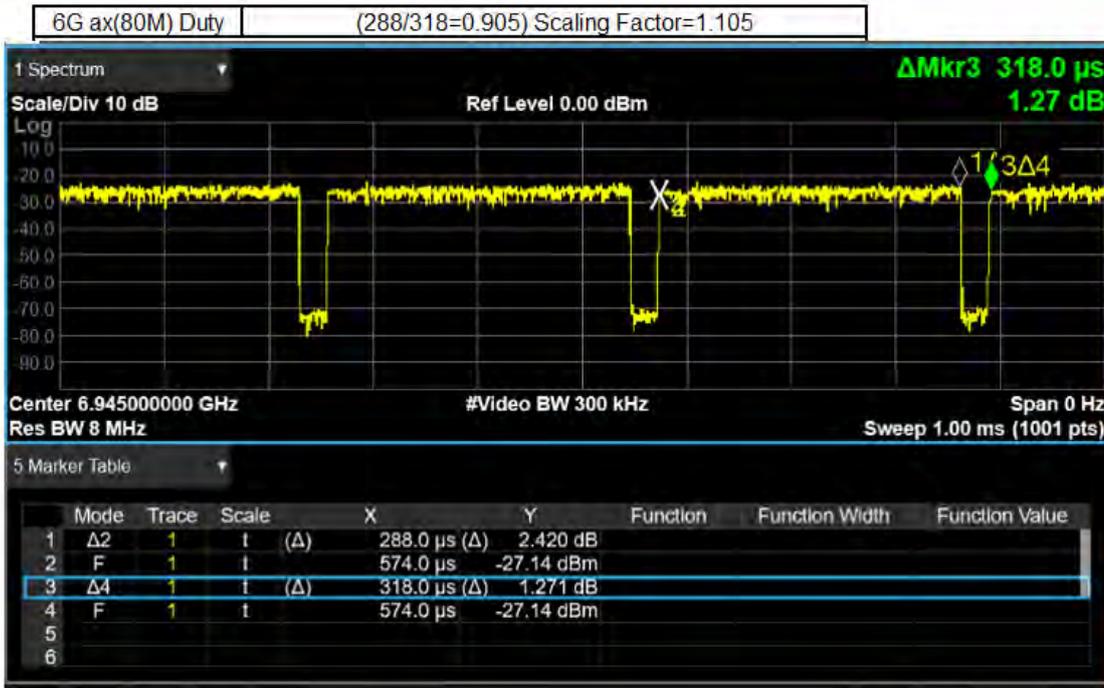
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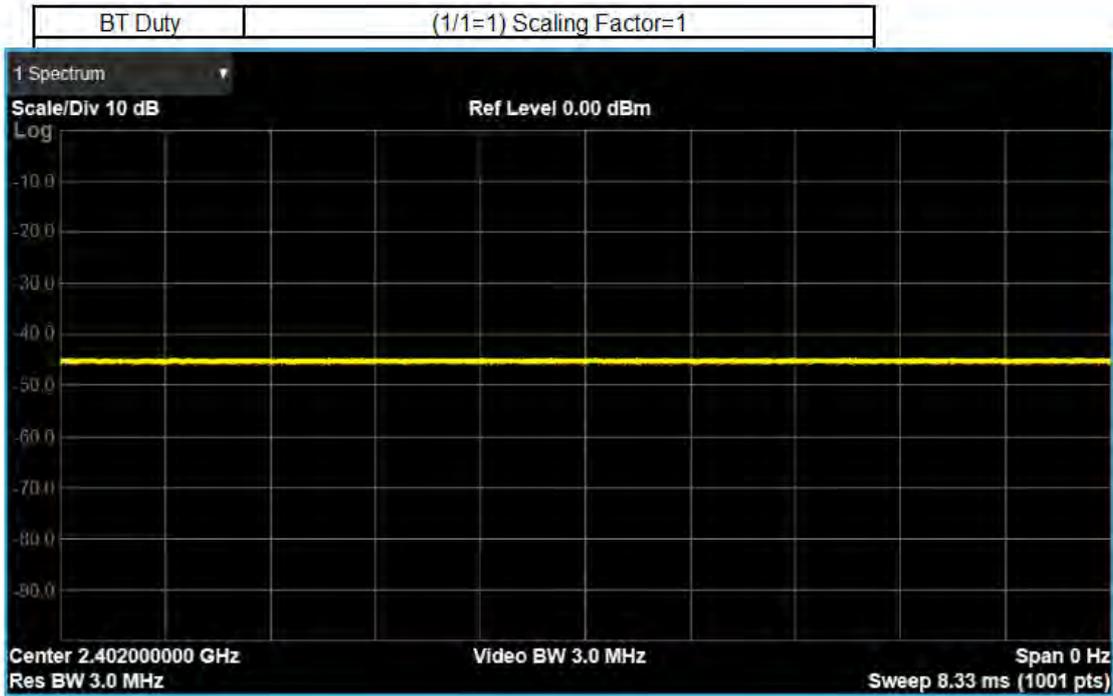
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## 8 SUMMARY OF RESULTS

### 8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

### 8.2 Summary of SAR Results

#### Tablet mode Vendor 1

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx1	Back Surface	0	11	2462	16.00	16.00	1.01	100.00%	0.078	0.078	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	16.00	15.97	1.01	100.69%	0.241	0.244	-
WLAN 802.11b	Tx1	Top Edge	0	6	2437	16.00	15.96	1.01	100.93%	0.232	0.235	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.273	0.274	001
WLAN 802.11b	Tx1	Right Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.012	0.012	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
Bluetooth(GFSK)	Tx1	Back Surface	0	39	2441	6.00	5.96	1.00	100.93%	0.027	0.027	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.095	0.096	002
Bluetooth(GFSK)	Tx1	Right Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.004	0.004	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(40M) 5.2G	Tx1	Back Surface	0	38	5190	15.00	14.99	1.05	100.23%	0.015	0.016	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.274	0.289	003
WLAN 802.11n(40M) 5.2G	Tx1	Right Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.018	0.019	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(40M) 5.3G	Tx1	Back Surface	0	62	5310	14.50	14.49	1.05	100.23%	0.018	0.019	-
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.252	0.265	005
WLAN 802.11n(40M) 5.3G	Tx1	Right Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.021	0.022	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	138	5690	14.50	14.46	1.10	100.93%	0.017	0.019	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.243	0.269	006
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.019	0.021	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	15.00	14.52	1.10	111.69%	0.022	0.027	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.334	0.410	007
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.025	0.031	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11ac(80M) 5.9G	Tx1	Back Surface	0	171	5855	17.00	16.96	1.10	100.93%	0.098	0.109	-
WLAN 802.11ac(80M) 5.9G	Tx1	Top Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.666	0.738	008
WLAN 802.11ac(80M) 5.9G	Tx1	Right Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.047	0.052	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11b	Tx2	Back Surface	0	1	2412	16.00	15.99	1.01	100.23%	0.164	0.165	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.269	0.271	009
WLAN 802.11b	Tx2	Top Edge	0	6	2437	16.00	15.95	1.01	101.16%	0.251	0.255	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	16.00	15.98	1.01	100.46%	0.227	0.229	-
WLAN 802.11b	Tx2	Left Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.031	0.031	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(40M) 5.2G	Tx2	Back Surface	0	38	5190	15.00	14.98	1.05	100.46%	0.083	0.088	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.376	0.397	010
WLAN 802.11n(40M) 5.2G	Tx2	Left Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.041	0.043	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(40M) 5.3G	Tx2	Back Surface	0	62	5310	14.50	14.49	1.05	100.23%	0.102	0.107	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.405	0.427	012
WLAN 802.11n(40M) 5.3G	Tx2	Left Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.050	0.053	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	14.50	14.48	1.10	100.46%	0.052	0.057	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.156	0.172	013
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.024	0.026	-

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Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	15.00	14.99	1.10	100.23%	0.073	0.080	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.246	0.271	014
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.034	0.037	-
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11ac(80M) 5.9G	Tx2	Back Surface	0	171	5855	17.00	16.98	1.10	100.46%	0.106	0.117	-
WLAN 802.11ac(80M) 5.9G	Tx2	Top Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.475	0.524	015
WLAN 802.11ac(80M) 5.9G	Tx2	Left Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.048	0.053	-

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Tablet mode Vendor 2

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx1	Back Surface	0	11	2462	16.00	16.00	1.01	100.00%	0.249	0.250	-
WLAN 802.11b	Tx1	Top Edge	0	1	2412	16.00	15.97	1.01	100.69%	0.621	0.628	-
WLAN 802.11b	Tx1	Top Edge	0	6	2437	16.00	15.96	1.01	100.93%	0.605	0.614	-
WLAN 802.11b	Tx1	Top Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.637	0.640	016
WLAN 802.11b	Tx1	Right Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.069	0.069	-
Bluetooth(GFSK)	Tx1	Back Surface	0	39	2441	6.00	5.96	1.00	100.93%	0.001	0.001	-
Bluetooth(GFSK)	Tx1	Top Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.027	0.027	017
Bluetooth(GFSK)	Tx1	Right Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.005	0.005	-
WLAN 802.11n(40M) 5.2G	Tx1	Back Surface	0	38	5190	15.00	14.99	1.05	100.23%	0.018	0.019	-
WLAN 802.11n(40M) 5.2G	Tx1	Top Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.341	0.359	018
WLAN 802.11n(40M) 5.2G	Tx1	Right Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.020	0.021	-
WLAN 802.11n(40M) 5.3G	Tx1	Back Surface	0	62	5310	14.50	14.49	1.05	100.23%	0.014	0.015	-
WLAN 802.11n(40M) 5.3G	Tx1	Top Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.206	0.217	020
WLAN 802.11n(40M) 5.3G	Tx1	Right Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.019	0.020	-
WLAN 802.11ac(80M) 5.6G	Tx1	Back Surface	0	138	5690	14.50	14.46	1.10	100.93%	0.024	0.027	-
WLAN 802.11ac(80M) 5.6G	Tx1	Top Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.348	0.386	021
WLAN 802.11ac(80M) 5.6G	Tx1	Right Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.029	0.032	-
WLAN 802.11ac(80M) 5.8G	Tx1	Back Surface	0	155	5775	15.00	14.52	1.10	111.69%	0.034	0.042	-
WLAN 802.11ac(80M) 5.8G	Tx1	Top Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.402	0.493	022
WLAN 802.11ac(80M) 5.8G	Tx1	Right Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.042	0.052	-
WLAN 802.11ac(80M) 5.9G	Tx1	Back Surface	0	171	5855	17.00	16.96	1.10	100.93%	0.102	0.113	-
WLAN 802.11ac(80M) 5.9G	Tx1	Top Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.505	0.560	023
WLAN 802.11ac(80M) 5.9G	Tx1	Right Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.050	0.055	-
WLAN 802.11b	Tx2	Back Surface	0	1	2412	16.00	15.99	1.01	100.23%	0.077	0.078	-
WLAN 802.11b	Tx2	Top Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.305	0.307	024
WLAN 802.11b	Tx2	Top Edge	0	6	2437	16.00	15.95	1.01	101.16%	0.265	0.269	-
WLAN 802.11b	Tx2	Top Edge	0	11	2462	16.00	15.98	1.01	100.46%	0.283	0.286	-
WLAN 802.11b	Tx2	Left Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.027	0.027	-
WLAN 802.11n(40M) 5.2G	Tx2	Back Surface	0	38	5190	15.00	14.98	1.05	100.46%	0.026	0.027	-
WLAN 802.11n(40M) 5.2G	Tx2	Top Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.275	0.290	025
WLAN 802.11n(40M) 5.2G	Tx2	Left Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.020	0.021	-
WLAN 802.11n(40M) 5.3G	Tx2	Back Surface	0	62	5310	14.50	14.49	1.05	100.23%	0.038	0.040	-
WLAN 802.11n(40M) 5.3G	Tx2	Top Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.387	0.387	027
WLAN 802.11n(40M) 5.3G	Tx2	Left Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.029	0.031	-
WLAN 802.11ac(80M) 5.6G	Tx2	Back Surface	0	138	5690	14.50	14.48	1.10	100.46%	0.031	0.034	-
WLAN 802.11ac(80M) 5.6G	Tx2	Top Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.315	0.347	028
WLAN 802.11ac(80M) 5.6G	Tx2	Left Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.030	0.033	-
WLAN 802.11ac(80M) 5.8G	Tx2	Back Surface	0	155	5775	15.00	14.99	1.10	100.23%	0.047	0.052	-
WLAN 802.11ac(80M) 5.8G	Tx2	Top Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.448	0.493	029
WLAN 802.11ac(80M) 5.8G	Tx2	Left Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.025	0.028	-
WLAN 802.11ac(80M) 5.9G	Tx2	Back Surface	0	171	5855	17.00	16.98	1.10	100.46%	0.100	0.110	-
WLAN 802.11ac(80M) 5.9G	Tx2	Top Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.602	0.664	030
WLAN 802.11ac(80M) 5.9G	Tx2	Left Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.042	0.046	-

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Book mode Vendor 1

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx1	Book Mode Right Edge	0	1	2412	16.00	15.97	1.01	100.69%	0.029	0.029	-
WLAN 802.11b	Tx1	Book Mode Right Edge	0	6	2437	16.00	15.96	1.01	100.93%	0.026	0.026	-
WLAN 802.11b	Tx1	Book Mode Right Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.030	0.030	031
Bluetooth(GFSK)	Tx1	Book Mode Right Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.012	0.012	032
WLAN 802.11n(40M) 5.2G	Tx1	Book Mode Right Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.072	0.076	033
WLAN 802.11n(40M) 5.3G	Tx1	Book Mode Right Edge	0	54	5270	14.50	14.48	1.05	100.46%	0.074	0.078	-
WLAN 802.11n(40M) 5.3G	Tx1	Book Mode Right Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.091	0.096	035
WLAN 802.11ac(80M) 5.6G	Tx1	Book Mode Right Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.030	0.033	036
WLAN 802.11ac(80M) 5.8G	Tx1	Book Mode Right Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.041	0.050	037
WLAN 802.11ac(80M) 5.9G	Tx1	Book Mode Right Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.079	0.088	038
WLAN 802.11b	Tx2	Book Mode Left Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.018	0.018	039
WLAN 802.11b	Tx2	Book Mode Left Edge	0	6	2437	16.00	15.95	1.01	101.16%	0.014	0.014	-
WLAN 802.11b	Tx2	Book Mode Left Edge	0	11	2462	16.00	15.98	1.01	100.46%	0.014	0.014	-
WLAN 802.11n(40M) 5.2G	Tx2	Book Mode Left Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.047	0.050	040
WLAN 802.11n(40M) 5.2G	Tx2	Book Mode Left Edge	0	46	5230	15.00	14.96	1.05	100.93%	0.041	0.043	-
WLAN 802.11n(40M) 5.3G	Tx2	Book Mode Left Edge	0	54	5270	14.50	14.47	1.05	100.69%	0.039	0.041	-
WLAN 802.11n(40M) 5.3G	Tx2	Book Mode Left Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.047	0.050	042
WLAN 802.11ac(80M) 5.6G	Tx2	Book Mode Left Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.018	0.020	043
WLAN 802.11ac(80M) 5.8G	Tx2	Book Mode Left Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.017	0.019	044
WLAN 802.11ac(80M) 5.9G	Tx2	Book Mode Left Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.020	0.022	045

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Book mode Vendor 2

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Tx1	Book Mode Right Edge	0	1	2412	16.00	15.97	1.01	100.69%	0.058	0.059	-
WLAN 802.11b	Tx1	Book Mode Right Edge	0	6	2437	16.00	15.96	1.01	100.93%	0.062	0.063	-
WLAN 802.11b	Tx1	Book Mode Right Edge	0	11	2462	16.00	16.00	1.01	100.00%	0.079	0.079	046
Bluetooth(GFSK)	Tx1	Book Mode Right Edge	0	0	2402	6.00	5.90	1.00	102.33%	0.051	0.052	-
Bluetooth(GFSK)	Tx1	Book Mode Right Edge	0	39	2441	6.00	5.96	1.00	100.93%	0.063	0.064	047
Bluetooth(GFSK)	Tx1	Book Mode Right Edge	0	78	2480	6.00	5.83	1.00	103.99%	0.046	0.048	-
WLAN 802.11n(40M) 5.2G	Tx1	Book Mode Right Edge	0	38	5190	15.00	14.99	1.05	100.23%	0.036	0.038	048
WLAN 802.11n(40M) 5.2G	Tx1	Book Mode Right Edge	0	46	5230	15.00	14.98	1.05	100.46%	0.027	0.029	-
WLAN 802.11n(40M) 5.3G	Tx1	Book Mode Right Edge	0	54	5270	14.50	14.48	1.05	100.46%	0.033	0.035	-
WLAN 802.11n(40M) 5.3G	Tx1	Book Mode Right Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.041	0.043	050
WLAN 802.11ac(80M) 5.6G	Tx1	Book Mode Right Edge	0	106	5530	14.00	13.95	1.10	101.16%	0.014	0.016	-
WLAN 802.11ac(80M) 5.6G	Tx1	Book Mode Right Edge	0	122	5610	14.50	14.40	1.10	102.33%	0.021	0.024	-
WLAN 802.11ac(80M) 5.6G	Tx1	Book Mode Right Edge	0	138	5690	14.50	14.46	1.10	100.93%	0.026	0.029	051
WLAN 802.11ac(80M) 5.8G	Tx1	Book Mode Right Edge	0	155	5775	15.00	14.52	1.10	111.69%	0.063	0.077	052
WLAN 802.11ac(80M) 5.9G	Tx1	Book Mode Right Edge	0	171	5855	17.00	16.96	1.10	100.93%	0.102	0.113	053
WLAN 802.11b	Tx2	Book Mode Left Edge	0	1	2412	16.00	15.99	1.01	100.23%	0.005	0.005	54
WLAN 802.11b	Tx2	Book Mode Left Edge	0	6	2437	16.00	15.95	1.01	101.16%	0.001	0.001	-
WLAN 802.11b	Tx2	Book Mode Left Edge	0	11	2462	16.00	15.98	1.01	100.46%	0.003	0.003	-
WLAN 802.11n(40M) 5.2G	Tx2	Book Mode Left Edge	0	38	5190	15.00	14.98	1.05	100.46%	0.037	0.039	055
WLAN 802.11n(40M) 5.2G	Tx2	Book Mode Left Edge	0	46	5230	15.00	14.96	1.05	100.93%	0.016	0.017	-
WLAN 802.11n(40M) 5.3G	Tx2	Book Mode Left Edge	0	54	5270	14.50	14.47	1.05	100.69%	0.018	0.019	-
WLAN 802.11n(40M) 5.3G	Tx2	Book Mode Left Edge	0	62	5310	14.50	14.49	1.05	100.23%	0.028	0.029	057
WLAN 802.11ac(80M) 5.6G	Tx2	Book Mode Left Edge	0	106	5530	14.00	13.90	1.10	102.33%	0.017	0.019	-
WLAN 802.11ac(80M) 5.6G	Tx2	Book Mode Left Edge	0	122	5610	14.50	14.46	1.10	100.93%	0.026	0.029	-
WLAN 802.11ac(80M) 5.6G	Tx2	Book Mode Left Edge	0	138	5690	14.50	14.48	1.10	100.46%	0.033	0.036	058
WLAN 802.11ac(80M) 5.8G	Tx2	Book Mode Left Edge	0	155	5775	15.00	14.99	1.10	100.23%	0.039	0.043	059
WLAN 802.11ac(80M) 5.9G	Tx2	Book Mode Left Edge	0	171	5855	17.00	16.98	1.10	100.46%	0.136	0.150	060

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WIFI 6E  
Tablet mode Vendor 1

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Estimated Reported APD W/m <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Back Surface	0	15	6025	14.50	14.50	1.01	100.00%	0.102	0.103	0.711	0.720	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Back Surface	0	79	6345	14.50	14.49	1.01	100.23%	0.110	0.112	0.804	0.816	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Top Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.344	0.348	2.14	2.168	061
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Top Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.367	0.373	2.57	2.609	062
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Right Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.032	0.032	0.151	0.153	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Right Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.033	0.034	0.154	0.156	-
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Back Surface	0	111	6505	15.00	14.98	1.01	100.46%	0.128	0.130	0.763	0.776	-
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Top Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.418	0.425	2.87	2.921	063
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Right Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.041	0.042	0.234	0.238	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Back Surface	0	175	6825	15.00	14.97	1.01	100.69%	0.100	0.102	0.688	0.702	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Top Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.279	0.285	2.19	2.234	064
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Right Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.034	0.035	0.161	0.164	-
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Back Surface	0	199	6945	13.00	12.99	1.11	100.23%	0.051	0.056	0.318	0.352	-
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Top Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.159	0.176	1.2	1.329	065
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Right Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.011	0.012	0.061	0.068	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Back Surface	0	15	6025	14.50	14.49	1.01	100.23%	0.063	0.064	0.487	0.494	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Back Surface	0	47	6185	14.50	14.47	1.01	100.69%	0.055	0.056	0.455	0.464	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Top Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.231	0.235	1.65	1.675	066
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Top Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.227	0.232	1.58	1.612	067
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Left Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.021	0.021	0.194	0.197	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Left Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.018	0.018	0.178	0.182	-
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Back Surface	0	111	6505	15.00	14.98	1.01	100.46%	0.151	0.154	0.914	0.930	-
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Top Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.442	0.450	3.33	3.389	068
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Left Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.038	0.039	0.229	0.233	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Back Surface	0	175	6825	15.00	14.98	1.01	100.46%	0.141	0.143	0.834	0.849	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Top Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.404	0.411	2.78	2.829	069
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Left Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.029	0.030	0.188	0.191	-
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Back Surface	0	199	6945	13.00	12.98	1.11	100.46%	0.070	0.078	0.487	0.541	-
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Top Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.212	0.235	1.49	1.654	070
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Left Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.020	0.022	0.136	0.151	-

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Tablet mode Vendor 2

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Estimated Reported APD W/m <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Back Surface	0	15	6025	14.50	14.50	1.01	100.00%	0.116	0.118	0.862	0.873	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Back Surface	0	79	6345	14.50	14.49	1.01	100.23%	0.098	0.100	0.692	0.703	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Top Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.450	0.456	2.570	2.603	071
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Top Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.393	0.399	2.220	2.254	072
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Right Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.042	0.043	0.143	0.145	-
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Right Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.037	0.038	0.128	0.130	-
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Back Surface	0	111	6505	15.00	14.98	1.01	100.46%	0.133	0.135	0.772	0.786	-
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Top Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.425	0.433	2.470	2.514	073
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Right Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.037	0.038	0.215	0.219	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Back Surface	0	175	6825	15.00	14.97	1.01	100.69%	0.142	0.145	0.820	0.836	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Top Edge	0	143	6665	15.00	14.95	1.01	101.16%	0.468	0.480	2.700	2.767	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Top Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.483	0.493	2.790	2.846	074
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Right Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.038	0.039	0.220	0.224	-
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Back Surface	0	199	6945	13.00	12.99	1.11	100.23%	0.063	0.070	0.375	0.415	-
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Top Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.228	0.253	1.360	1.506	075
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Right Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.015	0.017	0.089	0.099	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Back Surface	0	15	6025	14.50	14.49	1.01	100.23%	0.077	0.078	0.608	0.617	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Back Surface	0	47	6185	14.50	14.47	1.01	100.69%	0.069	0.070	0.512	0.522	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Top Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.366	0.372	2.150	2.183	076
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Top Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.397	0.405	2.590	2.642	077
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Left Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.025	0.025	0.226	0.229	-
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Left Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.023	0.023	0.212	0.216	-
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Back Surface	0	111	6505	15.00	14.98	1.01	100.46%	0.129	0.131	0.790	0.804	-
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Top Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.408	0.415	2.500	2.544	078
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Left Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.034	0.035	0.208	0.212	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Back Surface	0	175	6825	15.00	14.98	1.01	100.46%	0.134	0.136	0.718	0.731	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Top Edge	0	143	6665	15.00	14.97	1.01	100.69%	0.413	0.421	2.215	2.259	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Top Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.425	0.433	2.280	2.320	079
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Left Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.039	0.040	0.209	0.213	-
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Back Surface	0	199	6945	13.00	12.98	1.11	100.46%	0.066	0.073	0.332	0.369	-
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Top Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.209	0.232	1.130	1.254	080
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Left Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.017	0.019	0.091	0.101	-

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Book mode Vendor 1

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Estimated Reported APD W/m <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.031	0.031	0.189	0.191	081
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.018	0.018	0.111	0.113	082
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.021	0.021	0.131	0.133	083
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	143	6665	15.00	14.95	1.01	101.16%	0.043	0.044	0.283	0.290	-
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.054	0.055	0.381	0.389	084
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Book Mode Right Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.040	0.044	0.27	0.299	085
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.023	0.023	0.122	0.124	086
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.022	0.022	0.120	0.122	087
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	79	6345	14.50	14.45	1.01	101.16%	0.016	0.016	0.098	0.100	-
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.018	0.018	0.101	0.103	088
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.015	0.015	0.082	0.083	089
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Book Mode Left Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.011	0.012	0.039	0.043	090

Book mode Vendor 2

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Estimated Reported APD W/m <sup>2</sup> (4cm <sup>2</sup> )	ID
										Measured	Reported			
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	15	6025	14.50	14.50	1.01	100.00%	0.040	0.041	0.238	0.241	091
U-NII-5 6.2GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	79	6345	14.50	14.49	1.01	100.23%	0.035	0.036	0.235	0.239	092
U-NII-6 6.5GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.075	0.076	0.45	0.458	093
U-NII-7 6.7GHz802.11ax(160M)	Tx1	Book Mode Right Edge	0	175	6825	15.00	14.97	1.01	100.69%	0.040	0.041	0.245	0.250	094
U-NII-8 7.0GHz802.11ax(80M)	Tx1	Book Mode Right Edge	0	199	6945	13.00	12.99	1.11	100.23%	0.020	0.022	0.13	0.144	095
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	15	6025	14.50	14.49	1.01	100.23%	0.042	0.043	0.298	0.303	096
U-NII-5 6.2GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	47	6185	14.50	14.47	1.01	100.69%	0.022	0.022	0.122	0.124	097
U-NII-6 6.5GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	111	6505	15.00	14.98	1.01	100.46%	0.054	0.055	0.411	0.418	098
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	143	6665	15.00	14.97	1.01	100.69%	0.097	0.099	0.637	0.650	-
U-NII-7 6.7GHz802.11ax(160M)	Tx2	Book Mode Left Edge	0	175	6825	15.00	14.98	1.01	100.46%	0.103	0.105	0.676	0.688	099
U-NII-8 7.0GHz802.11ax(80M)	Tx2	Book Mode Left Edge	0	199	6945	13.00	12.98	1.11	100.46%	0.039	0.043	0.285	0.316	100

Note:

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

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### 8.3 Summary of PD Results

#### Vendor 1

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Tx1	Top Edge	2	15	6025	14.50	14.50	100.00%	1.01	1.55	1.730	2.716	1.430	2.245	101
	Tx1	Top Edge	2	79	6345	14.50	14.49	100.23%	1.01	1.55	0.711	1.119	0.603	0.949	102
WLAN 6E 802.11ax(160M) U-NII-6	Tx1	Top Edge	2	111	6505	15.00	14.98	100.46%	1.01	1.55	2.480	3.912	2.330	3.675	103
WLAN 6E 802.11ax(160M) U-NII-7	Tx1	Top Edge	2	175	6825	15.00	14.97	100.69%	1.01	1.55	1.000	1.581	0.781	1.235	104
WLAN 6E 802.11ax(80M) U-NII-8	Tx1	Top Edge	2	199	6945	13.00	12.99	100.23%	1.01	1.55	0.834	1.313	0.813	1.279	105
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Tx2	Top Edge	2	15	6025	14.50	14.49	100.23%	1.01	1.55	1.270	1.999	1.150	1.810	106
	Tx2	Top Edge	2	47	6185	14.50	14.47	100.69%	1.01	1.55	1.760	2.783	1.340	2.119	107
WLAN 6E 802.11ax(160M) U-NII-6	Tx2	Top Edge	2	111	6505	15.00	14.98	100.46%	1.01	1.55	1.360	2.145	1.200	1.893	108
WLAN 6E 802.11ax(160M) U-NII-7	Tx2	Top Edge	2	175	6825	15.00	14.98	100.46%	1.01	1.55	1.080	1.704	0.959	1.513	109
WLAN 6E 802.11ax(80M) U-NII-8	Tx1	Top Edge	2	199	6945	13.00	12.98	100.46%	1.01	1.55	0.682	1.076	0.586	0.924	110

#### Vendor 2

Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Tx1	Top Edge	2	15	6025	14.50	14.50	100.00%	1.01	1.55	5.070	7.961	2.280	3.580	111
	Tx1	Top Edge	2	79	6345	14.50	14.49	100.23%	1.01	1.55	1.830	2.880	1.480	2.329	112
WLAN 6E 802.11ax(160M) U-NII-6	Tx1	Top Edge	2	111	6505	15.00	14.98	100.46%	1.01	1.55	1.670	2.634	1.620	2.555	113
WLAN 6E 802.11ax(160M) U-NII-7	Tx1	Top Edge	2	175	6825	15.00	14.97	100.69%	1.01	1.55	1.920	3.036	1.420	2.245	114
WLAN 6E 802.11ax(80M) U-NII-8	Tx1	Top Edge	2	199	6945	13.00	12.99	100.23%	1.01	1.55	1.590	2.502	1.360	2.140	115
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m <sup>2</sup> )	Reported Total psPD (W/m <sup>2</sup> )	Measured Normal psPD (W/m <sup>2</sup> )	Reported Normal psPD (W/m <sup>2</sup> )	
WLAN 6E 802.11ax(160M) U-NII-5	Tx2	Top Edge	2	15	6025	14.50	14.49	100.23%	1.01	1.55	1.290	2.030	1.130	1.778	116
	Tx2	Top Edge	2	47	6185	14.50	14.47	100.69%	1.01	1.55	1.120	1.771	0.993	1.570	117
WLAN 6E 802.11ax(160M) U-NII-6	Tx2	Top Edge	2	111	6505	15.00	14.98	100.46%	1.01	1.55	0.780	1.230	0.550	0.868	118
WLAN 6E 802.11ax(160M) U-NII-7	Tx2	Top Edge	2	175	6825	15.00	14.98	100.46%	1.01	1.55	1.260	1.988	1.130	1.782	119
WLAN 6E 802.11ax(80M) U-NII-8	Tx2	Top Edge	2	199	6945	13.00	12.98	100.46%	1.01	1.55	0.788	1.243	0.714	1.126	120

**Note:**

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

### 8.4 Reporting statements of conformity

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

### 8.5 Conclusion

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

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## 9 SIMULTANEOUS TRANSMISSION ANALYSIS

### 9.1 Simultaneous Transmission Scenarios:

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

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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:

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

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

## 9.3 SPLSR evaluation and analysis

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

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

The ratio is determined by  $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  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  $R_i$  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 Tablet Mode Vendor 1

Exposure Position	FCC Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scenario13	
	2	3	4	5	6	7	8	9	2+3	4+5	4+5+6	8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	5+8	4+6+9	5+8	
	2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Summed 1g SAR (W/kg)														
Back Surface	0	0.079	0.165	0.109	0.117	0.027	0.130	0.243	0.226	0.253	0.284	0.311	0.195	0.274	0.232	0.235	0.263	0.247	0.290	0.274	0.290	0.274
Top Edge	0	0.274	0.271	0.258	0.254	0.096	0.425	0.450	0.545	0.562	0.568	0.675	0.671	0.798	1.009	0.724	0.696	1.188	0.949	1.284	1.284	1.284
Right Edge	0	0.012	0.000	0.002	0.000	0.004	0.042	0.000	0.012	0.052	0.056	0.042	0.046	0.012	0.052	0.012	0.042	0.052	0.042	0.056	0.046	0.046
Left Edge	0	0.000	0.031	0.000	0.053	0.000	0.000	0.039	0.031	0.053	0.053	0.039	0.039	0.053	0.031	0.039	0.031	0.039	0.053	0.039	0.039	0.053

### Tablet Mode Vendor 2

Exposure Position	FCC Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scenario13	
	2	3	4	5	6	7	8	9	2+3	4+5	4+5+6	8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	5+8	4+6+9	5+8	
	2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Summed 1g SAR (W/kg)														
Back Surface	0	0.250	0.078	0.113	0.110	0.001	0.145	0.136	0.328	0.223	0.224	0.281	0.282	0.360	0.191	0.386	0.223	0.249	0.255	0.290	0.290	0.290
Top Edge	0	0.640	0.307	0.560	0.664	0.027	0.463	0.433	0.947	1.224	1.251	0.908	0.953	1.304	0.867	1.073	0.800	0.993	1.157	1.020	1.184	1.184
Right Edge	0	0.069	0.000	0.005	0.000	0.005	0.043	0.000	0.069	0.055	0.060	0.043	0.048	0.069	0.055	0.069	0.043	0.055	0.043	0.060	0.048	0.048
Left Edge	0	0.000	0.027	0.000	0.046	0.000	0.000	0.040	0.027	0.046	0.046	0.040	0.040	0.046	0.027	0.046	0.027	0.040	0.046	0.040	0.040	0.046

### Book Mode Vendor 1

Exposure Position	FCC Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scenario13	
	2	3	4	5	6	7	8	9	2+3	4+5	4+5+6	8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	5+8	4+6+9	5+8	
	2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Summed 1g SAR (W/kg)														
Book Mode Right Edge	0	0.030	0.000	0.006	0.000	0.012	0.055	0.000	0.030	0.096	0.108	0.095	0.067	0.030	0.096	0.030	0.055	0.030	0.055	0.030	0.055	0.067
Book Mode Left Edge	0	0.000	0.018	0.000	0.059	0.000	0.000	0.023	0.018	0.059	0.059	0.023	0.023	0.059	0.018	0.023	0.018	0.023	0.059	0.023	0.023	0.059

### Book Mode Vendor 2

Exposure Position	FCC Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	Scenario9	Scenario10	Scenario11	Scenario12	Scenario13	
	2	3	4	5	6	7	8	9	2+3	4+5	4+5+6	8+9	6+8+9	2+5	3+4	2+9	3+8	4+9	5+8	4+6+9	5+8	
	2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Summed 1g SAR (W/kg)														
Book Mode Right Edge	0	0.079	0.000	0.113	0.000	0.064	0.076	0.000	0.079	0.113	0.177	0.076	0.140	0.079	0.113	0.079	0.076	0.113	0.076	0.177	0.177	0.140
Book Mode Left Edge	0	0.000	0.005	0.000	0.150	0.000	0.000	0.105	0.005	0.150	0.150	0.105	0.105	0.150	0.005	0.105	0.005	0.105	0.105	0.150	0.150	0.150

## 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	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar/02/2022	Mar/01/2023
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/26/2022	Jan/25/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/23/2022	Aug/22/2023
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/24/2022	Aug/23/2023
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY52180142	Oct/19/2022	Oct/18/2023
Agilent	Dual-directional coupler	778D	MY52180302	Oct/19/2022	Oct/18/2023
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
SPEAG	Software	DASY 6 V16.0.0.116	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 52 V52.10.4.1527	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2022	Sep/26/2023
TECEP	Digital thermometer	DTM-303A	TP130077	Sep/29/2022	Sep/28/2023

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# 11 UNCERTAINTY BUDGET

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

A	c	D	e		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
<b>Measurement system</b>									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
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%	∞
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%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
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%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.32%	N	1	1	0.64	0.43	0.84%	0.57%	M
Liquid Conductivity (mea.)	1.41%	N	1	1	0.6	0.49	0.85%	0.69%	M
Combined standard uncertainty		RSS					11.78%	11.74%	
Expant uncertainty (95% confidence interval), K=2							23.55%	23.48%	

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

A	c	D	e		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
<b>Measurement system</b>									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
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%	∞
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%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
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%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.85%	N	1	1	0.64	0.43	0.54%	0.37%	M
Liquid Conductivity (mea.)	1.11%	N	1	1	0.6	0.49	0.67%	0.54%	M
Combined standard uncertainty		RSS					11.45%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.90%	22.85%	

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

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
<b>Measurement system errors</b>								
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
<b>Phantom and device errors</b>								
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
<b>Correction to the SAR results</b>								
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	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
<b>Uncertainty terms dependent on the measurement system</b>							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	√3	1.732	1	0.00	∞
Frequency response (BW ≤ 1GHz)	0.20	R	√3	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	√3	1.732	1	0.00	∞
Isotropy	0.50	R	√3	1.732	1	0.29	∞
Linearity	0.20	R	√3	1.732	1	0.12	∞
Probe scattering	0.00	R	√3	1.732	1	0.00	∞
Probe positioning offset	0.30	R	√3	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	∞
Field impedance dependence	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	∞
Measurement area truncation	0.00	R	√3	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	√3	1	1	0.00	∞
Field reconstruction	2.00	R	√3	1.732	1	1.15	∞
Forward transformation	0.00	R	√3	1.732	1	0.00	∞
Power density scaling	-	R	√3	1.732	1	-	∞
Spatial averaging	0.10	R	√3	1.732	1	0.06	∞
System detection limit	0.04	R	√3	1.732	1	0.02	∞
<b>Uncertainty terms dependent on the DUT and environmental factors</b>							
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	∞
Modulation response	0.40	R	√3	1.732	1	0.23	∞
Integration time	0.00	R	√3	1.732	1	0.00	∞
Response time	0.00	R	√3	1.732	1	0.00	∞
Device holder influence	0.10	R	√3	1.732	1	0.06	∞
DUT alignment	0.00	R	√3	1.732	1	0.00	∞
RF ambient conditions	0.04	R	√3	1.732	1	0.02	∞
Ambient reflections	0.04	R	√3	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	∞
Drift of the DUT	-	R	√3	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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## 12 SAR MEASUREMENT RESULTS

Date: 2022/11/10

ID: 001

Report No. : TESA2210000423ES

WLAN 802.11b\_Body\_Top Edge\_CH 11\_0mm\_Tx1\_1

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.372$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- 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) = 0.463 W/kg

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

Reference Value = 1.235 V/m; Power Drift = 0.06 dB

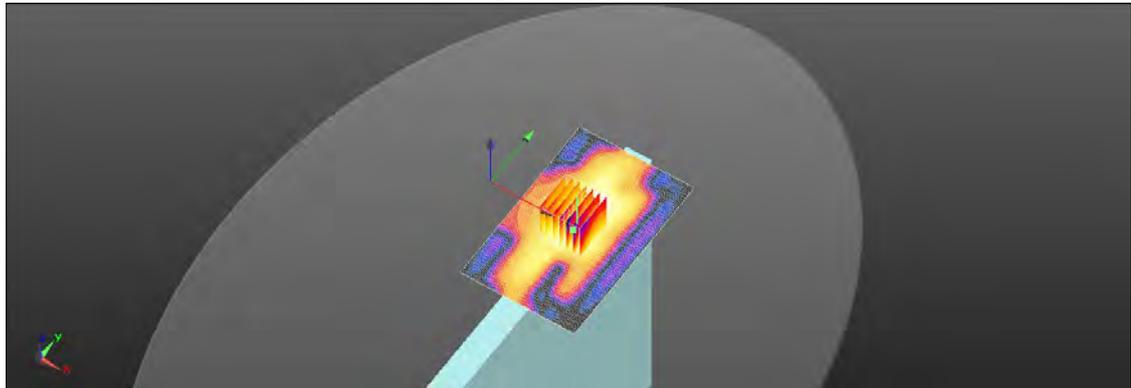
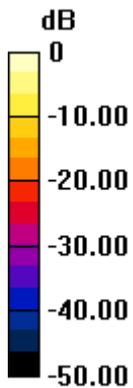
Peak SAR (extrapolated) = 0.663 W/kg

**SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.117 W/kg**

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

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

Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

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Date: 2022/11/10

ID: 002

Report No. :TESA2210000423ES

Bluetooth(GFSK)\_Body\_Top Edge\_CH 39\_0mm\_Tx1

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

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.811 \text{ S/m}$ ;  $\epsilon_r = 39.547$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- 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) = 0.202 W/kg

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

Reference Value = 1.625 V/m; Power Drift = 0.08 dB

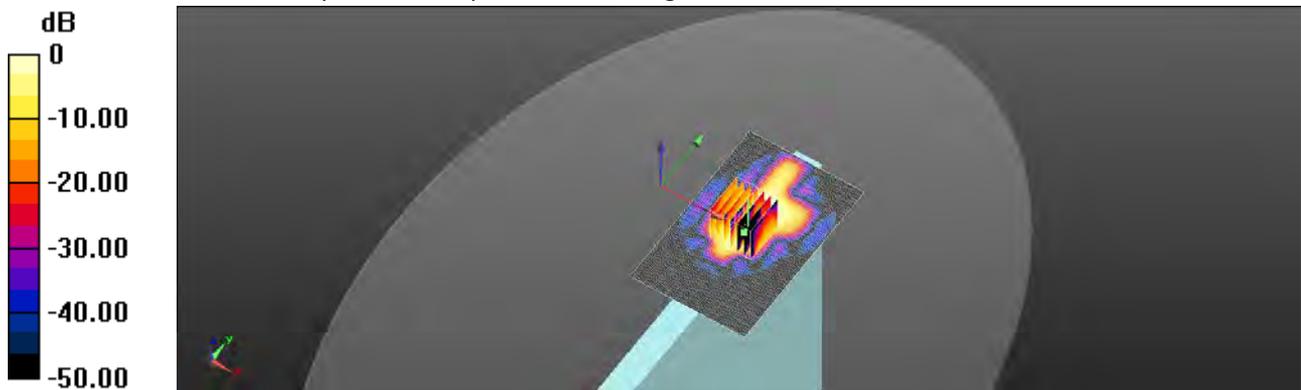
Peak SAR (extrapolated) = 0.268 W/kg

**SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.038 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 0.148 W/kg



0 dB = 0.148 W/kg = -8.31 dBW/kg

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Date: 2022/11/11

ID: 003

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Body\_Top Edge\_CH 38\_0mm\_Tx1

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.515 W/kg

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

Reference Value = 1.254 V/m; Power Drift = 0.12 dB

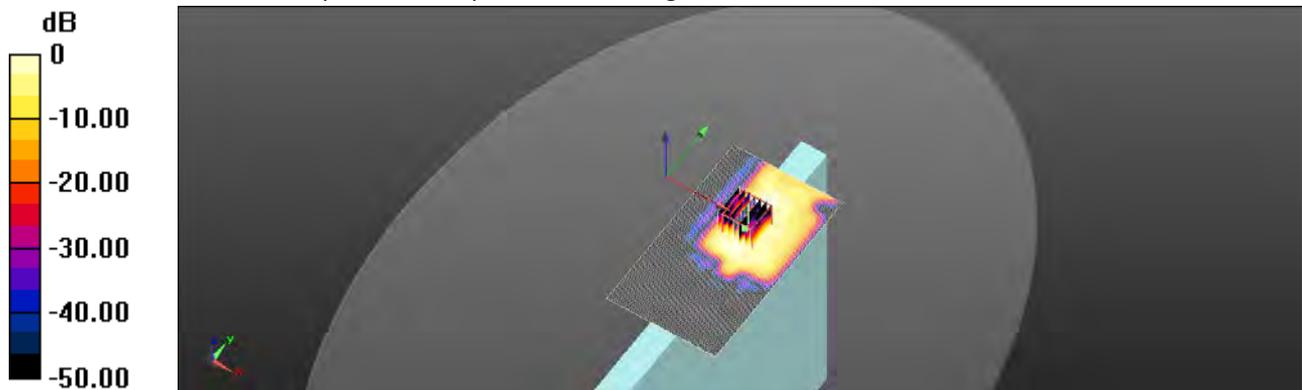
Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.068 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.631 W/kg



0 dB = 0.631 W/kg = -2.00 dBW/kg

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Date: 2022/11/12

ID: 005

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Body\_Top Edge\_CH 62\_0mm\_Tx1

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.664 W/kg

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

Reference Value = 1.532 V/m; Power Drift = 0.09 dB

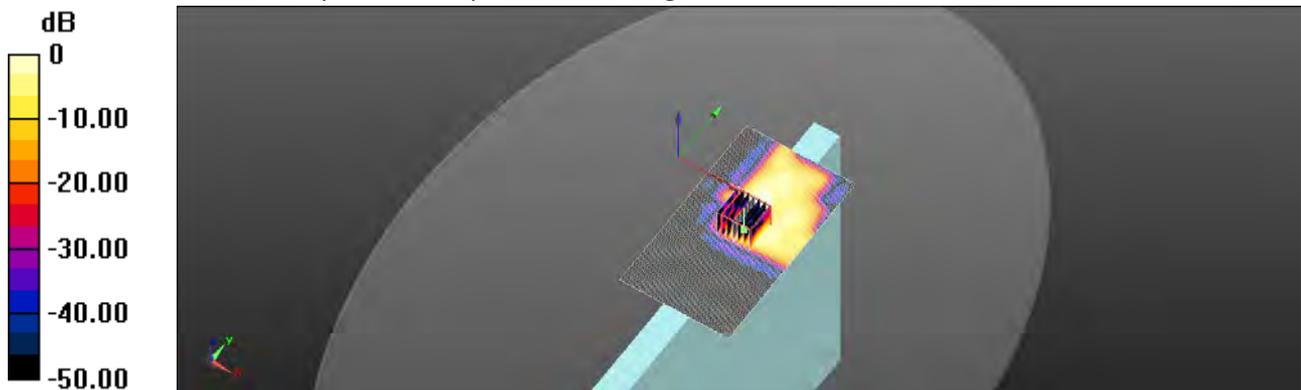
Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.062 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.7%

Maximum value of SAR (measured) = 0.649 W/kg



0 dB = 0.649 W/kg = -1.87 dBW/kg

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Date: 2022/11/13

ID: 006

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Body\_Top Edge\_CH 138\_0mm\_Tx1

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.730 W/kg

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

Reference Value = 1.256 V/m; Power Drift = 0.10 dB

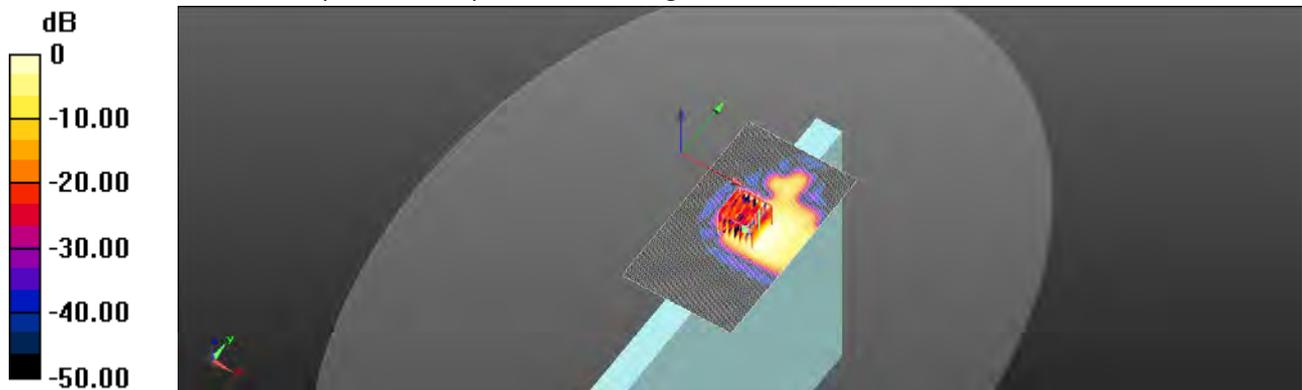
Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.080 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 0.647 W/kg



0 dB = 0.647 W/kg = -1.89 dBW/kg

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Date: 2022/11/14

ID: 007

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Body\_Top Edge\_CH 155\_0mm\_Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.870 W/kg

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

Reference Value = 0.4510 V/m; Power Drift = 0.16 dB

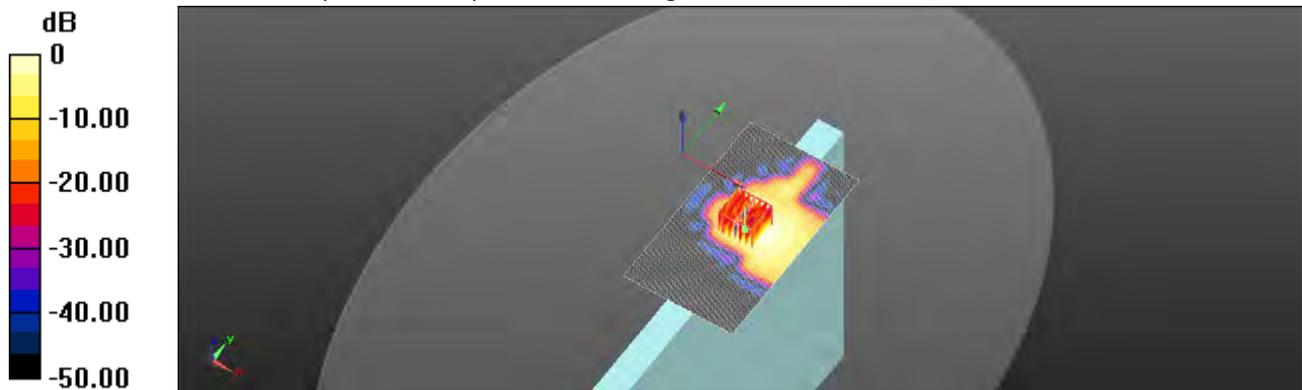
Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.103 W/kg**

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

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

Maximum value of SAR (measured) = 0.900 W/kg



0 dB = 0.900 W/kg = -0.46 dBW/kg

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Date: 2022/11/14

ID: 008

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Body\_Top Edge\_CH 171\_0mm\_Tx1

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 0.9400 V/m; Power Drift = 0.14 dB

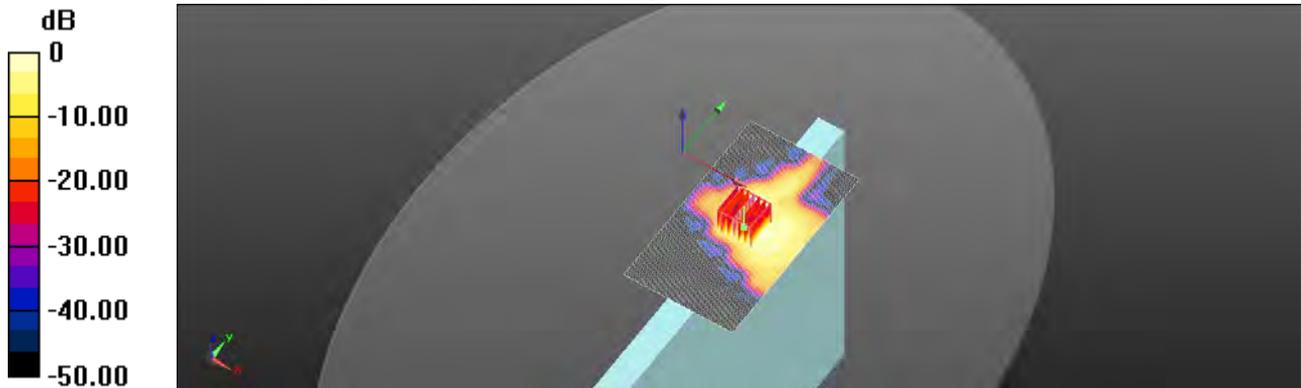
Peak SAR (extrapolated) = 4.20 W/kg

**SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.187 W/kg**

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

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

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



0 dB = 1.76 W/kg = 2.46 dBW/kg

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Date: 2022/11/10

ID: 009

Report No. :TESA2210000423ES

WLAN 802.11b\_Body\_Top Edge\_CH 1\_0mm\_Tx2

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.785 \text{ S/m}$ ;  $\epsilon_r = 39.593$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.413 W/kg

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

Reference Value = 0.8340 V/m; Power Drift = -0.15 dB

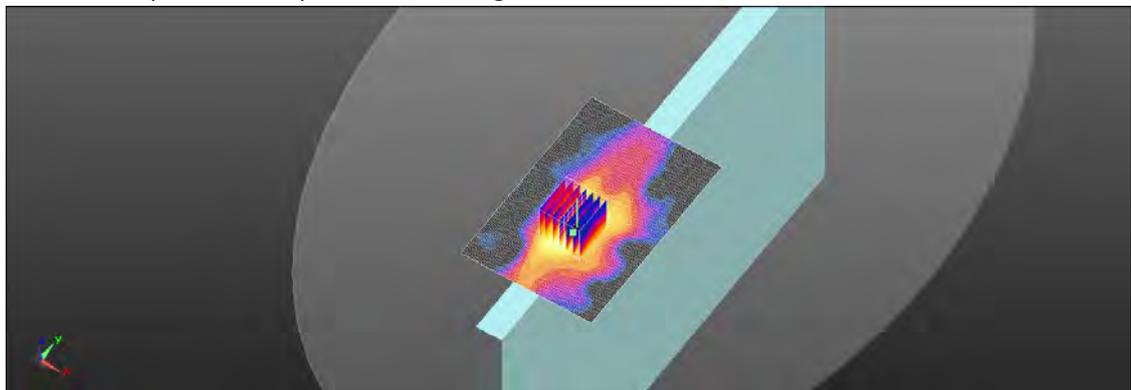
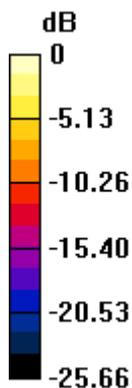
Peak SAR (extrapolated) = 0.683 W/kg

**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.124 W/kg**

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

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

Maximum value of SAR (measured) = 0.414 W/kg



0 dB = 0.414 W/kg = -3.83 dBW/kg

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ID: 010

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Body\_Top Edge\_CH 38\_0mm\_Tx2

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x151x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.572 W/kg

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

Reference Value = 1.134 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.154 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.5 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 0.915 W/kg

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

Reference Value = 1.134 V/m; Power Drift = 0.18 dB

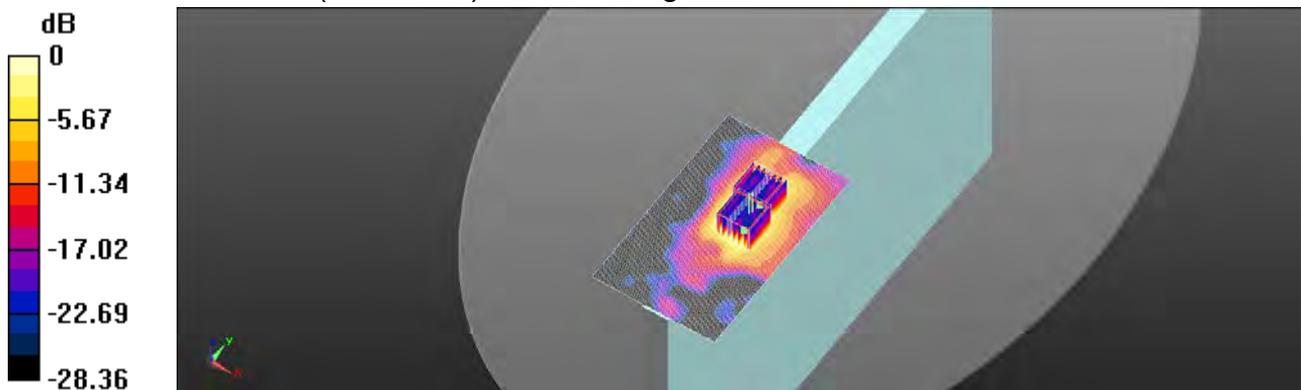
Peak SAR (extrapolated) = 2.28 W/kg

**SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.116 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 0.824 W/kg



0 dB = 0.824 W/kg = -0.84 dBW/kg

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Date: 2022/11/12

ID: 012

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Body\_Top Edge\_CH 62\_0mm\_Tx2

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.564 W/kg

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

Reference Value = 1.235 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.126 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.839 W/kg

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

Reference Value = 1.235 V/m; Power Drift = 0.19 dB

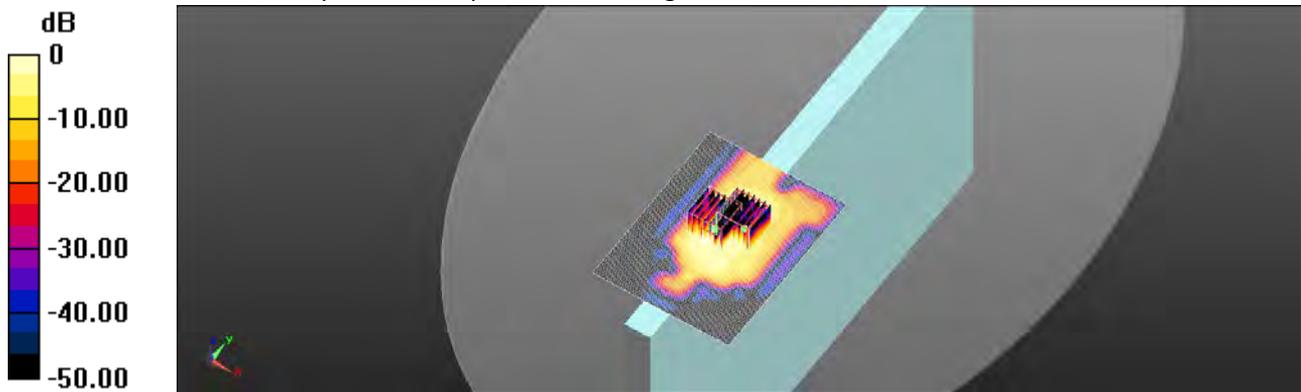
Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.092 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.843 W/kg



0 dB = 0.843 W/kg = -0.74 dBW/kg

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Date: 2022/11/13

ID: 013

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Body\_Top Edge\_CH 138\_0mm\_Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x151x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.365 W/kg

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

Reference Value = 1.498 V/m; Power Drift = 0.15 dB

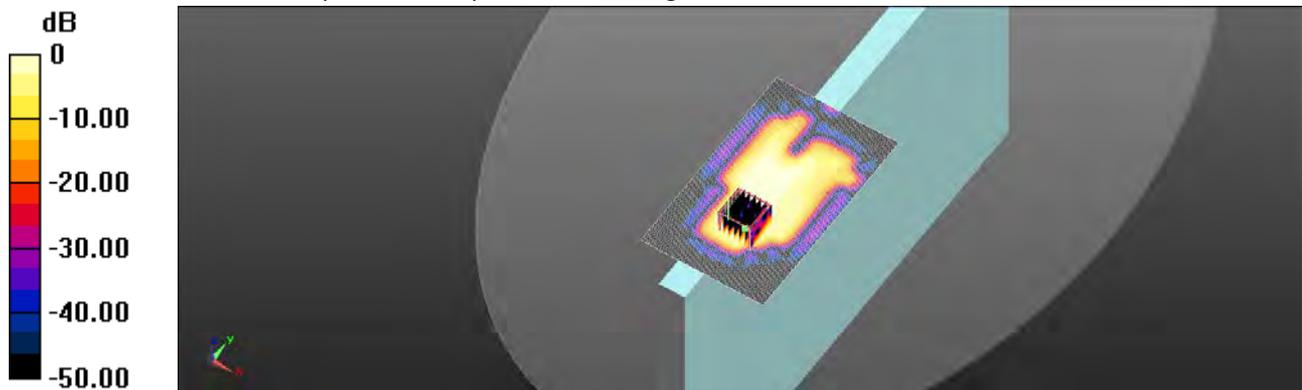
Peak SAR (extrapolated) = 0.991 W/kg

**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.048 W/kg**

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

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

Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg = -4.39 dBW/kg

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Member of SGS Group

Date: 2022/11/14

ID: 014

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Body\_Top Edge\_CH 155\_0mm\_Tx2

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x151x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.542 W/kg

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

Reference Value = 1.789 V/m; Power Drift = 0.18 dB

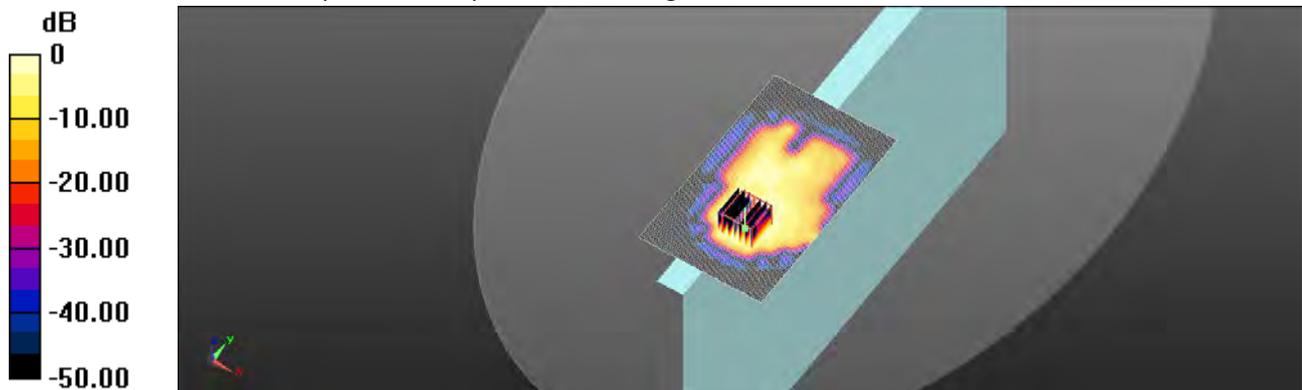
Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.071 W/kg**

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

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

Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.538 W/kg = -2.69 dBW/kg

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Date: 2022/11/14

ID: 015

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Body\_Top Edge\_CH 171\_0mm\_Tx2

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x151x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

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

Reference Value = 1.569 V/m; Power Drift = 0.09 dB

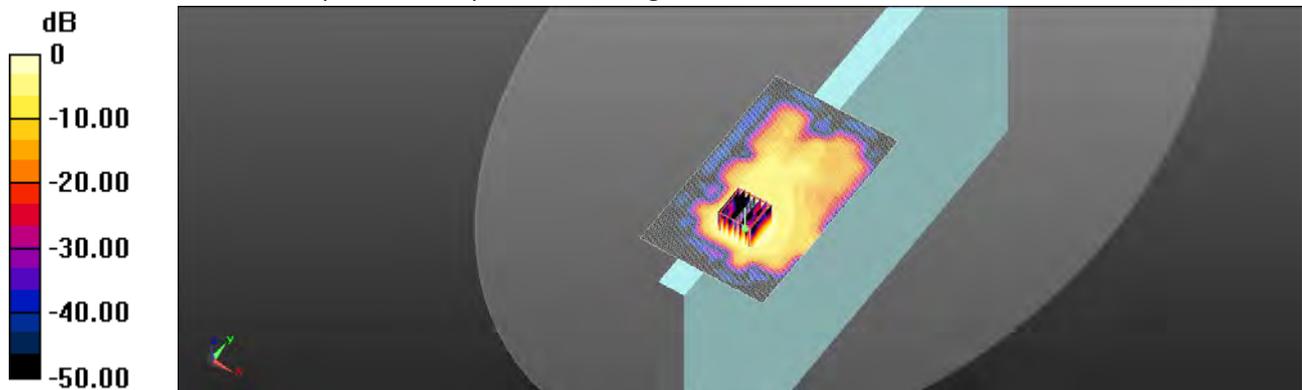
Peak SAR (extrapolated) = 2.59 W/kg

**SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.152 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.35 dBW/kg

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ID: 016

Report No. :TESA2210000423ES

WLAN 802.11b\_Body\_Top Edge\_CH 11\_0mm\_Tx1

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.816 \text{ S/m}$ ;  $\epsilon_r = 39.372$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.951 W/kg

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

Reference Value = 5.426 V/m; Power Drift = 0.14 dB

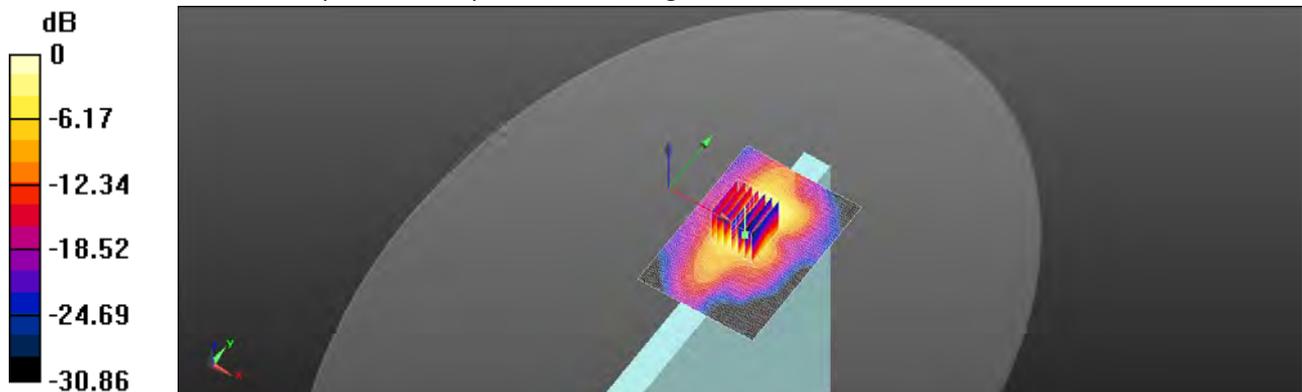
Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.264 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 43.7%

Maximum value of SAR (measured) = 0.985 W/kg



0 dB = 0.985 W/kg = -0.07 dBW/kg

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Date: 2022/11/10

ID: 017

Report No. :TESA2210000423ES

Bluetooth(GFSK)\_Body\_Top Edge\_CH 39\_0mm\_Tx1

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

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.811 \text{ S/m}$ ;  $\epsilon_r = 39.547$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0626 W/kg

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

Reference Value = 1.426 V/m; Power Drift = -0.14 dB

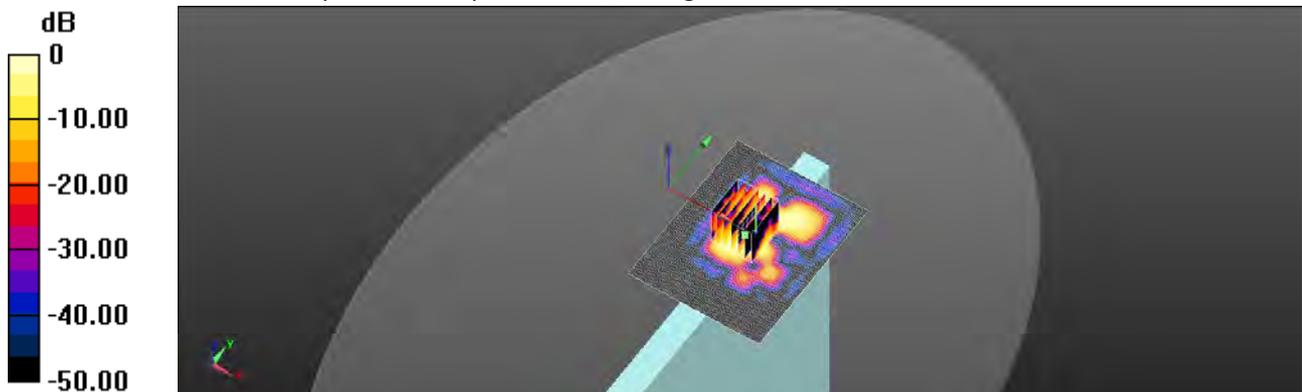
Peak SAR (extrapolated) = 0.0650 W/kg

**SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.00998 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 45.4%

Maximum value of SAR (measured) = 0.0427 W/kg



0 dB = 0.0427 W/kg = -13.70 dBW/kg

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Date: 2022/11/11

ID: 018

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Body\_Top Edge\_CH 38\_0mm\_Tx1

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

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

Reference Value = 2.116 V/m; Power Drift = 0.18 dB

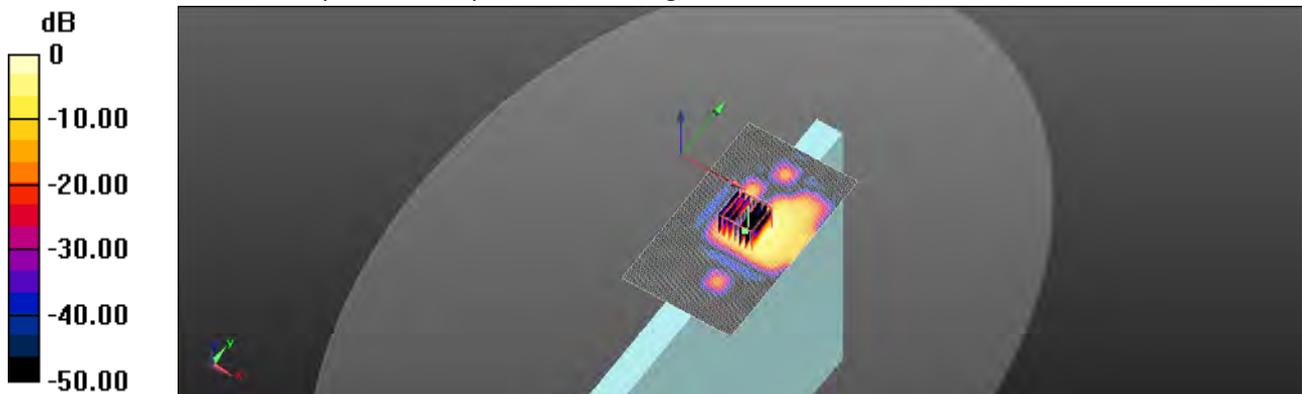
Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.076 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.922 W/kg



0 dB = 0.922 W/kg = -0.35 dBW/kg

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Date: 2022/11/12

ID: 020

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Body\_Top Edge\_CH 62\_0mm\_Tx1

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.434 W/kg

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

Reference Value = 3.426 V/m; Power Drift = 0.04 dB

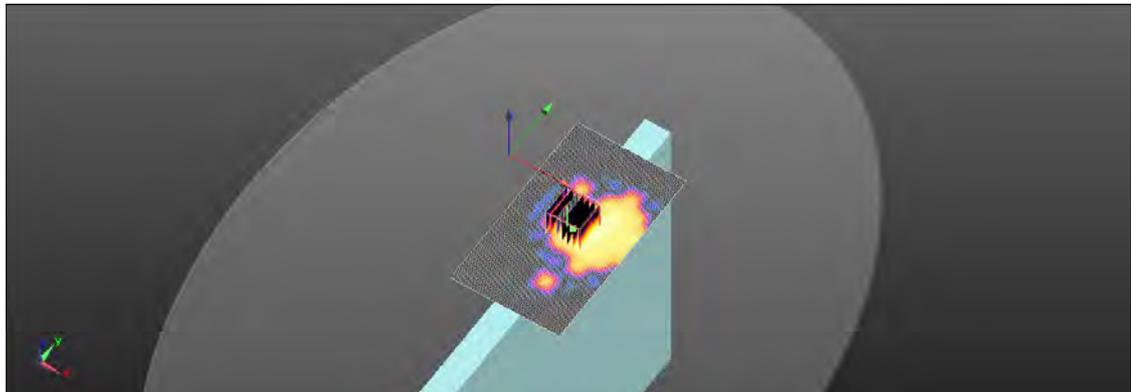
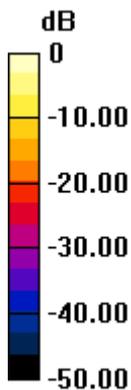
Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.053 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 0.556 W/kg



0 dB = 0.556 W/kg = -2.55 dBW/kg

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Date: 2022/11/13

ID: 021

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Body\_Top Edge\_CH 138\_0mm\_Tx1

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.906 W/kg

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

Reference Value = 1.626 V/m; Power Drift = 0.06 dB

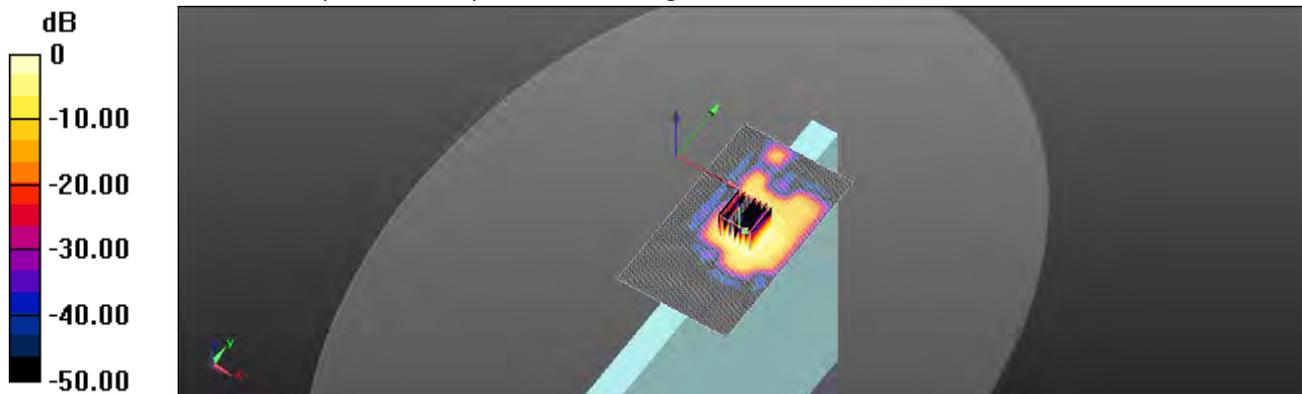
Peak SAR (extrapolated) = 2.17 W/kg

**SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.120 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 44.7%

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



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

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Date: 2022/11/14

ID: 022

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Body\_Top Edge\_CH 155\_0mm\_Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.972 W/kg

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

Reference Value = 5.133 V/m; Power Drift = 0.17 dB

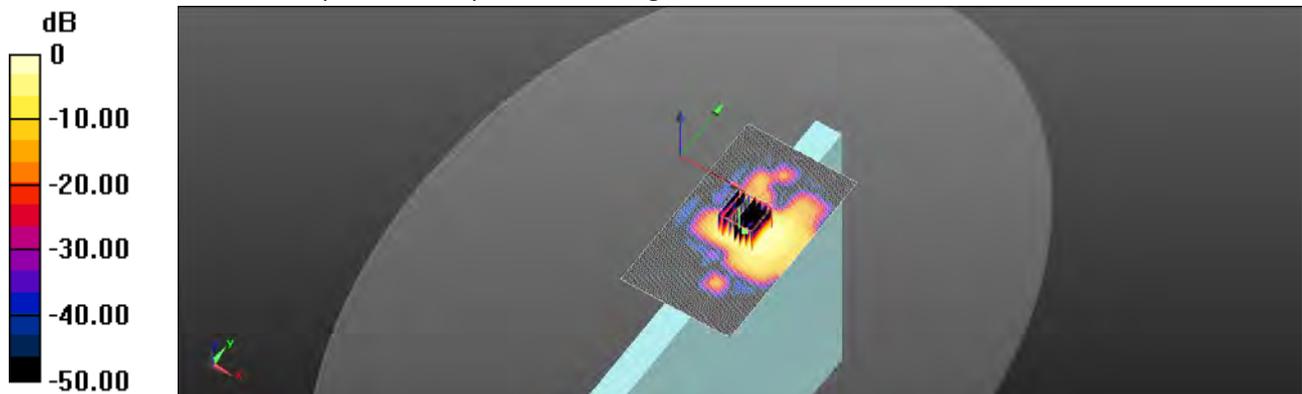
Peak SAR (extrapolated) = 2.55 W/kg

**SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.120 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2022/11/14

ID: 023

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Body\_Top Edge\_CH 171\_0mm\_Tx1

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

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

Reference Value = 2.543 V/m; Power Drift = 0.09 dB

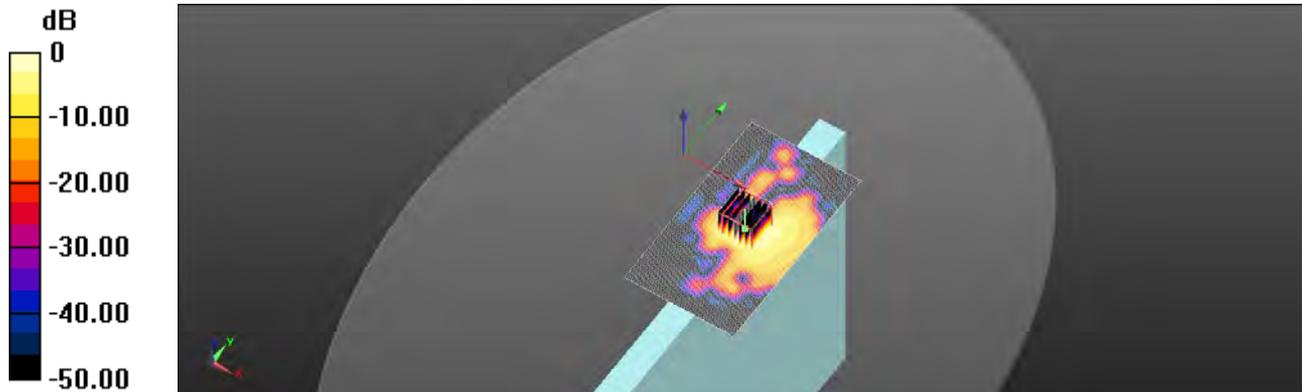
Peak SAR (extrapolated) = 5.02 W/kg

**SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.104 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 46.3%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 1.41 dBW/kg

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Member of SGS Group

Date: 2022/11/10

ID: 024

Report No. :TESA2210000423ES

WLAN 802.11b\_Body\_Top Edge\_CH 1\_0mm\_Tx2

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.785 \text{ S/m}$ ;  $\epsilon_r = 39.593$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x111x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.442 W/kg

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

Reference Value = 3.174 V/m; Power Drift = 0.11 dB

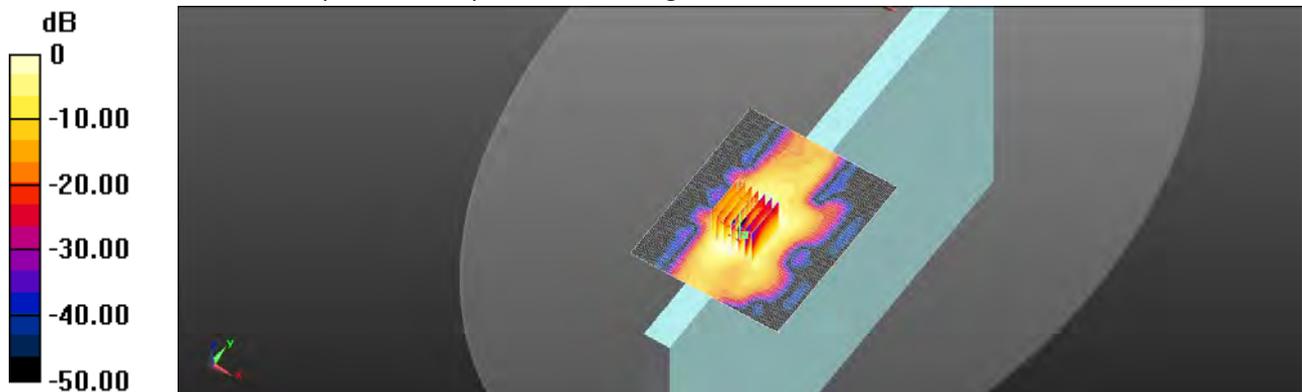
Peak SAR (extrapolated) = 0.840 W/kg

**SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.126 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 0.464 W/kg



0 dB = 0.464 W/kg = -3.33 dBW/kg

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Date: 2022/11/11

ID: 025

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Body\_Top Edge\_CH 38\_0mm\_Tx2

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.580 W/kg

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

Reference Value = 5.246 V/m; Power Drift = 0.13 dB

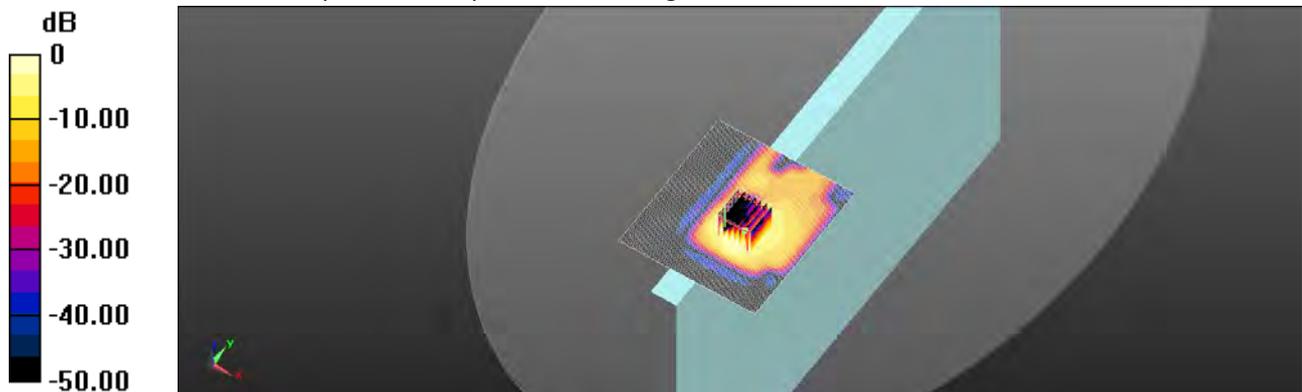
Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.085 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 0.732 W/kg



0 dB = 0.732 W/kg = -1.35 dBW/kg

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Date: 2022/11/12

ID: 027

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Body\_Top Edge\_CH 62\_0mm\_Tx2

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.71$  S/m;  $\epsilon_r = 35.663$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.734 W/kg

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

Reference Value = 2.316 V/m; Power Drift = 0.04 dB

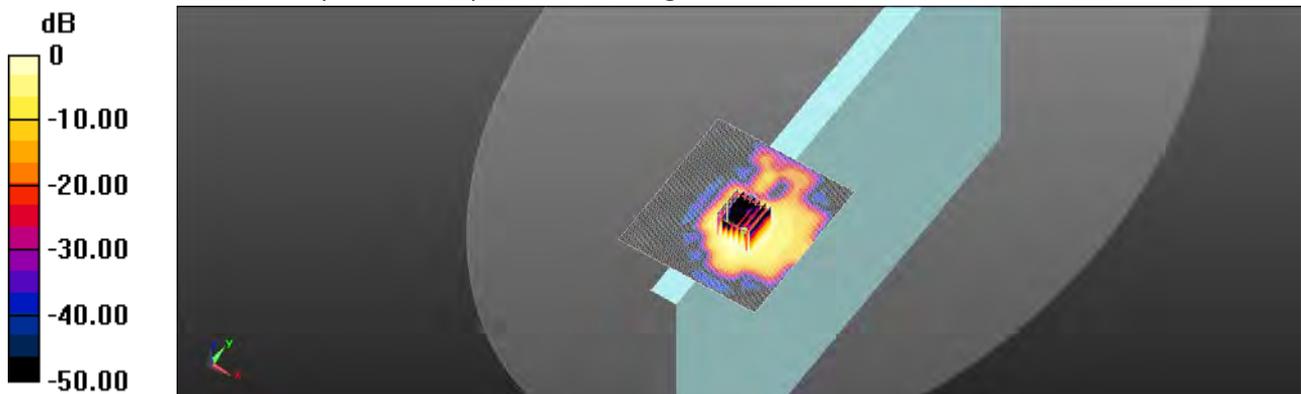
Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.113 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

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Date: 2022/11/13

ID: 028

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Body\_Top Edge\_CH 138\_0mm\_Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.666 W/kg

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

Reference Value = 2.832 V/m; Power Drift = 0.04 dB

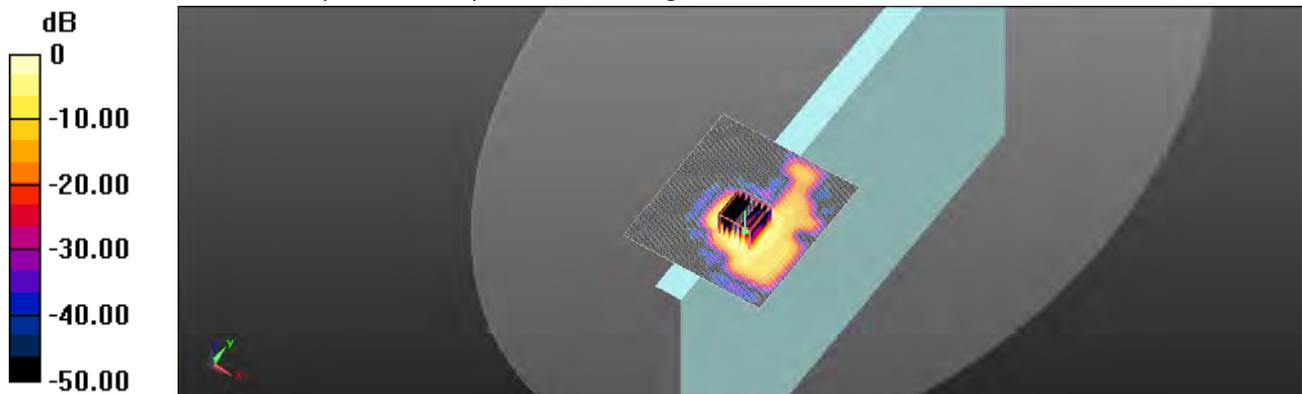
Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.085 W/kg**

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

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

Maximum value of SAR (measured) = 0.722 W/kg



0 dB = 0.722 W/kg = -1.41 dBW/kg

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Date: 2022/11/14

ID: 029

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Body\_Top Edge\_CH 155\_0mm\_Tx2

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.927 W/kg

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

Reference Value = 1.326 V/m; Power Drift = 0.03 dB

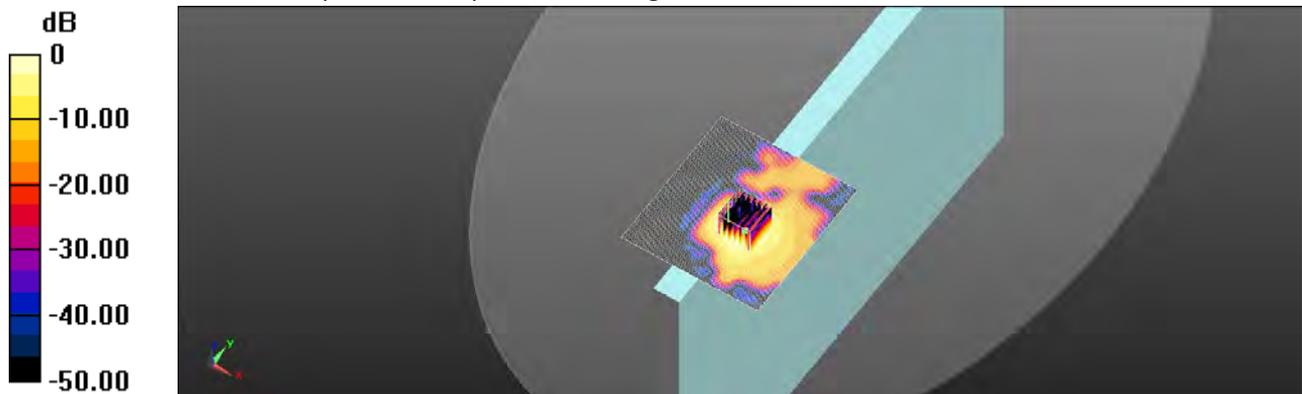
Peak SAR (extrapolated) = 2.42 W/kg

**SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.135 W/kg**

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

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

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2022/11/14

ID: 030

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Body\_Top Edge\_CH 171\_0mm\_Tx2

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (101x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

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

Reference Value = 7.316 V/m; Power Drift = 0.07 dB

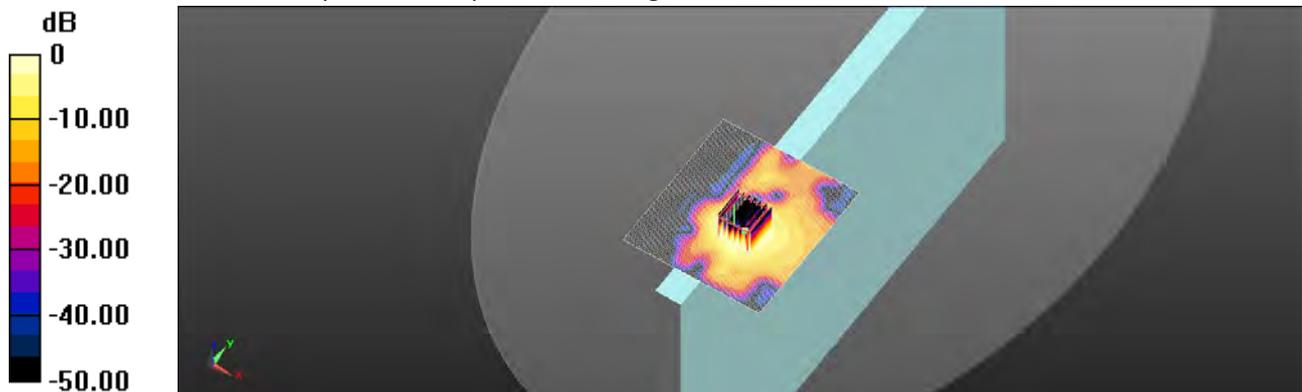
Peak SAR (extrapolated) = 4.48 W/kg

**SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.211 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 46.3%

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

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Date: 2022/11/10

ID: 031

Report No. :TESA2210000423ES

WLAN 802.11b\_Book\_Right Edge\_CH 11\_0mm\_Tx1

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.816 \text{ S/m}$ ;  $\epsilon_r = 39.372$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x211x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0742 W/kg

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

Reference Value = 1.455 V/m; Power Drift = 0.08 dB

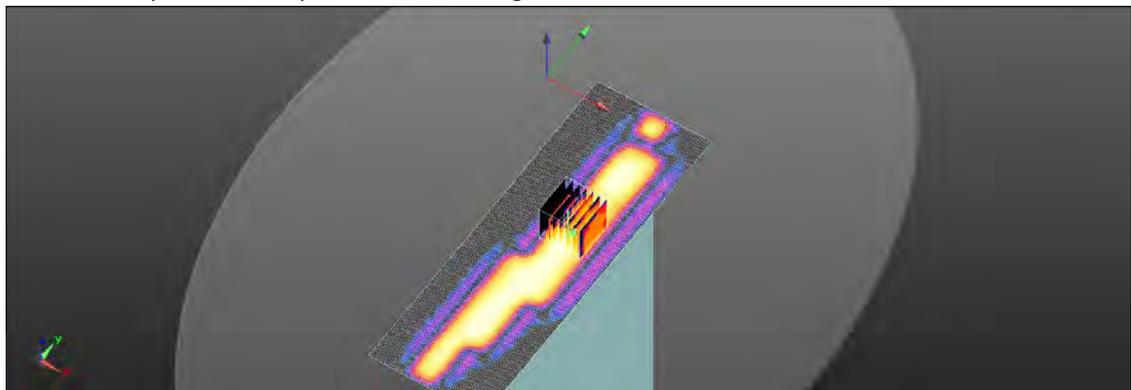
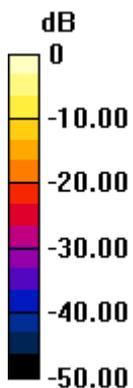
Peak SAR (extrapolated) = 0.106 W/kg

**SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.011 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 = 49.1%

Maximum value of SAR (measured) = 0.0436 W/kg



0 dB = 0.0436 W/kg = -13.61 dBW/kg

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Date: 2022/11/10

ID: 032

Report No. :TESA2210000423ES

Bluetooth(GFSK)\_Book\_Right Edge\_CH 39\_0mm\_Tx1

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

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.811 \text{ S/m}$ ;  $\epsilon_r = 39.547$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x211x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0453 W/kg

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

Reference Value = 0.8320 V/m; Power Drift = -0.04 dB

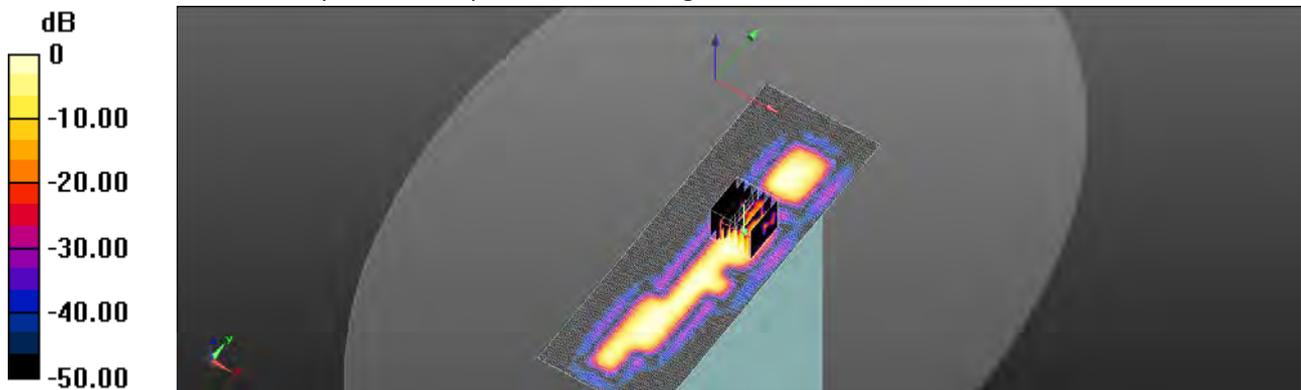
Peak SAR (extrapolated) = 0.0290 W/kg

**SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00383 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 = 46.6%

Maximum value of SAR (measured) = 0.0213 W/kg



0 dB = 0.0213 W/kg = -16.71 dBW/kg

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Date: 2022/11/11

ID: 033

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Book\_Right Edge\_CH 38\_0mm\_Tx1

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

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

Reference Value = 0.8780 V/m; Power Drift = -0.13 dB

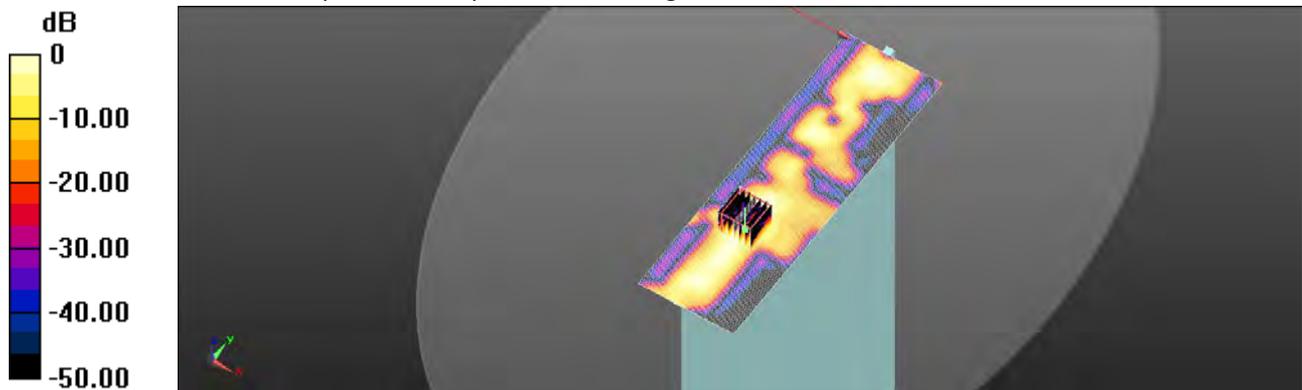
Peak SAR (extrapolated) = 0.414 W/kg

**SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.021 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.202 W/kg



0 dB = 0.202 W/kg = -6.94 dBW/kg

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Date: 2022/11/12

ID: 035

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Book\_Right Edge\_CH 62\_0mm\_Tx1

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.288 W/kg

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

Reference Value = 2.665 V/m; Power Drift = 0.07 dB

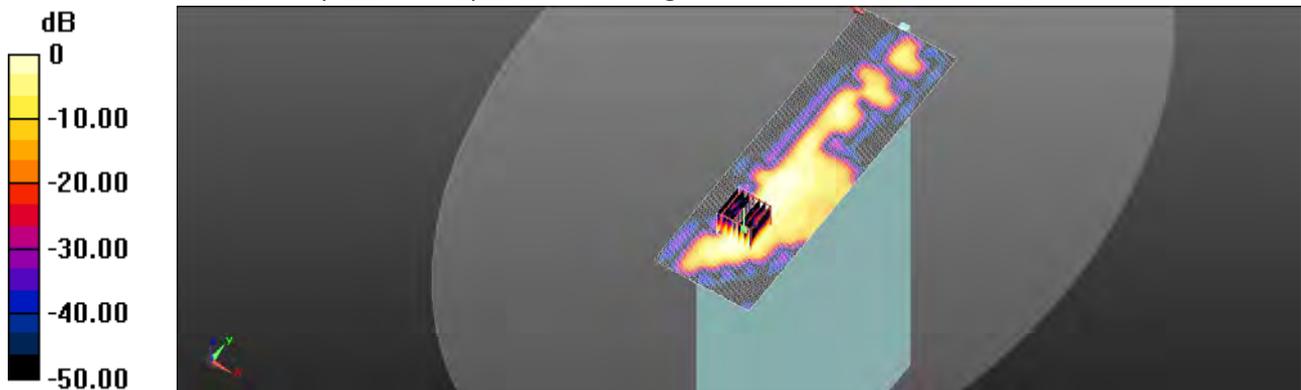
Peak SAR (extrapolated) = 0.384 W/kg

**SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.029 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

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

Maximum value of SAR (measured) = 0.185 W/kg



0 dB = 0.185 W/kg = -7.34 dBW/kg

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Date: 2022/11/13

ID: 036

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Book\_Right Edge\_CH 138\_0mm\_Tx1

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.192 W/kg

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

Reference Value = 1.587 V/m; Power Drift = 0.09 dB

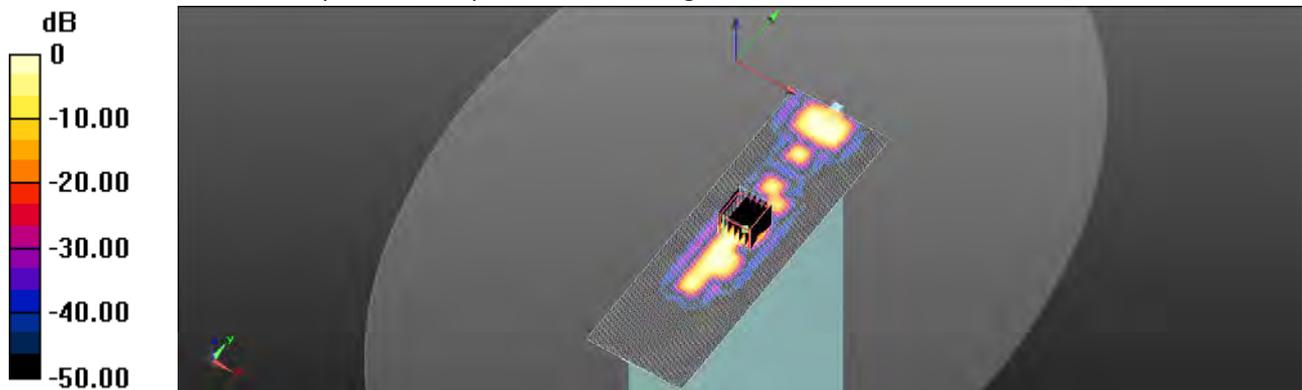
Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.00883 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 = 44.8%

Maximum value of SAR (measured) = 0.0758 W/kg



0 dB = 0.0758 W/kg = -11.21 dBW/kg

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Date: 2022/11/14

ID: 037

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Book\_Right Edge\_CH 155\_0mm\_Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 0.8770 V/m; Power Drift = -0.13 dB

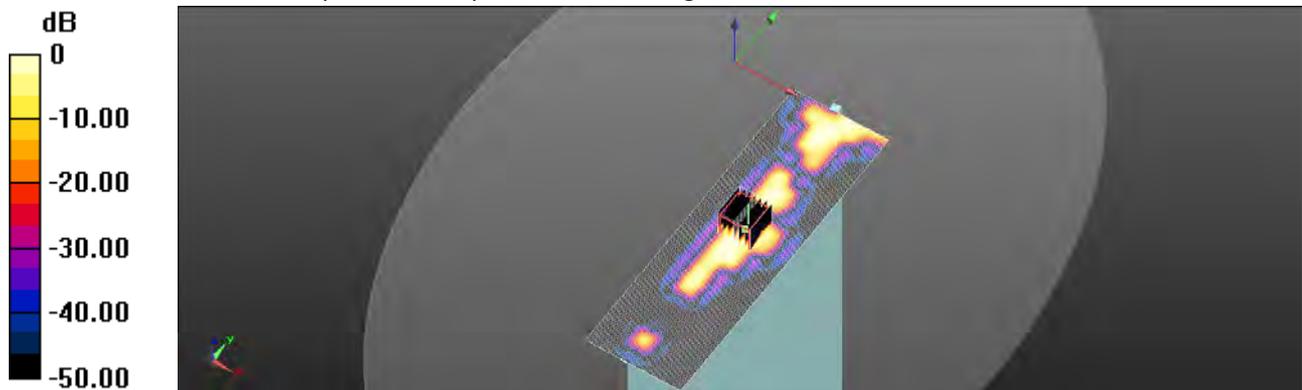
Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.012 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 = 47.4%

Maximum value of SAR (measured) = 0.0944 W/kg



0 dB = 0.0944 W/kg = -10.25 dBW/kg

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Date: 2022/11/14

ID: 038

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Book\_Right Edge\_CH 171\_0mm\_Tx1

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** 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 = 1.772 V/m; Power Drift = 0.19 dB

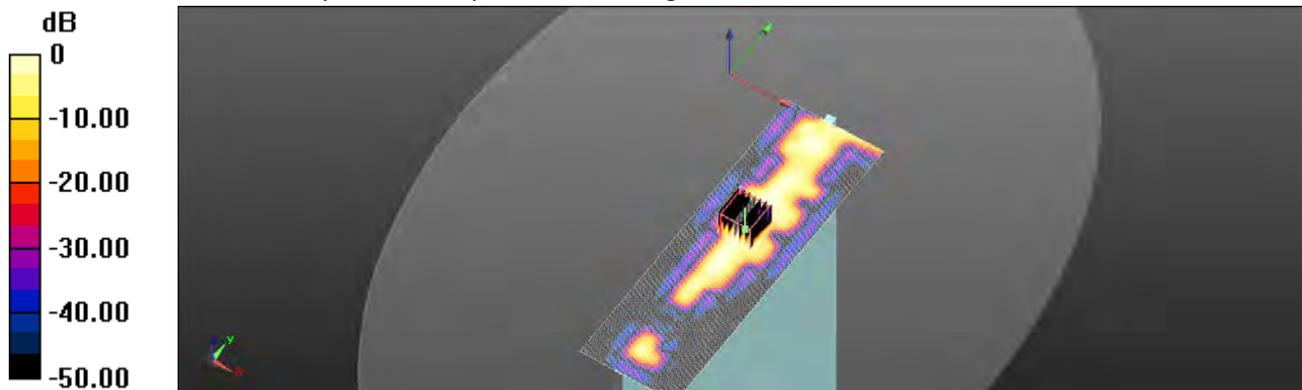
Peak SAR (extrapolated) = 0.343 W/kg

**SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.024 W/kg**

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

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

Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.167 W/kg = -7.76 dBW/kg

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Date: 2022/11/10

ID: 039

Report No. :TESA2210000423ES

WLAN 802.11b\_Book\_Left Edge\_CH 1\_0mm\_Tx2

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.785$  S/m;  $\epsilon_r = 39.593$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- 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) = 0.0510 W/kg

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

Reference Value = 1.593 V/m; Power Drift = 0.19 dB

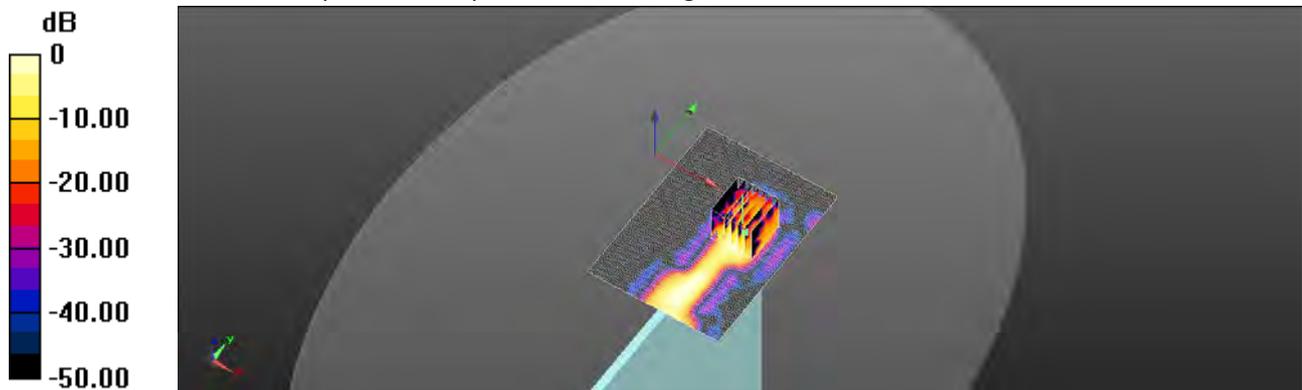
Peak SAR (extrapolated) = 0.0610 W/kg

**SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00631 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 = 41.1%

Maximum value of SAR (measured) = 0.0282 W/kg



0 dB = 0.0282 W/kg = -15.50 dBW/kg

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Date: 2022/11/11

ID: 040

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Book\_Left Edge\_CH 38\_0mm\_Tx2

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0957 W/kg

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

Reference Value = 1.483 V/m; Power Drift = 0.16 dB

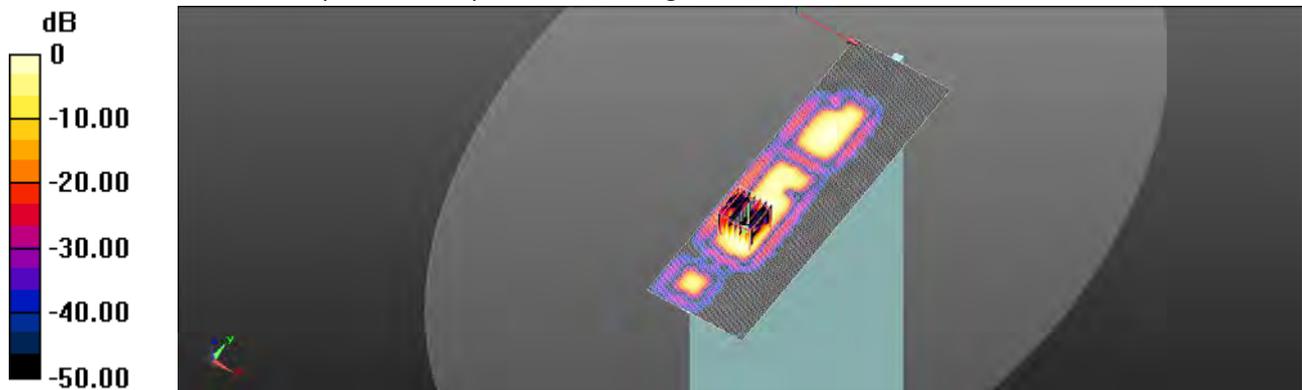
Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.015 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.106 W/kg



0 dB = 0.106 W/kg = -9.73 dBW/kg

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Date: 2022/11/12

ID: 042

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Book\_Left Edge\_CH 62\_0mm\_Tx2

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.148 W/kg

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

Reference Value = 1.584 V/m; Power Drift = 0.18 dB

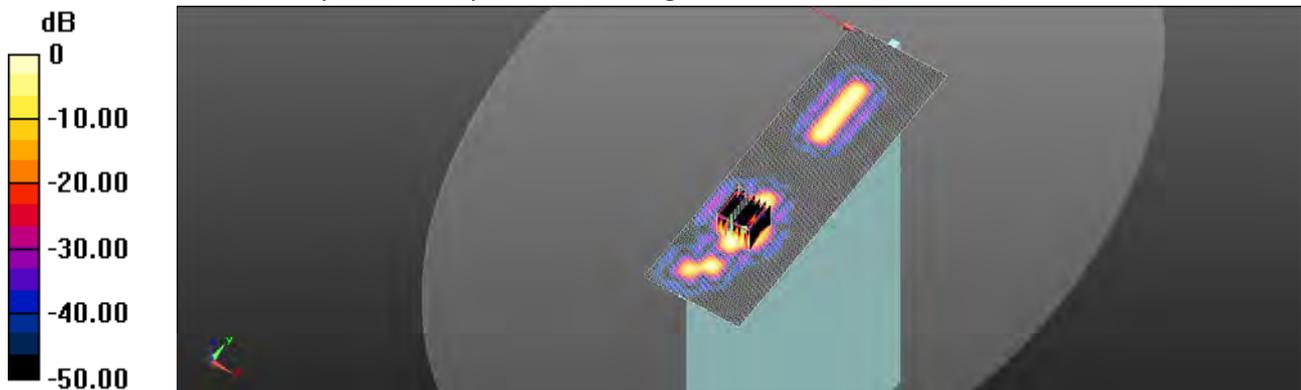
Peak SAR (extrapolated) = 0.204 W/kg

**SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.014 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 0.108 W/kg



0 dB = 0.108 W/kg = -9.67 dBW/kg

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Date: 2022/11/13

ID: 043

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Book\_Left Edge\_CH 138\_0mm\_Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0435 W/kg

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

luReference Vae = 1.576 V/m; Power Drift = 0.16 dB

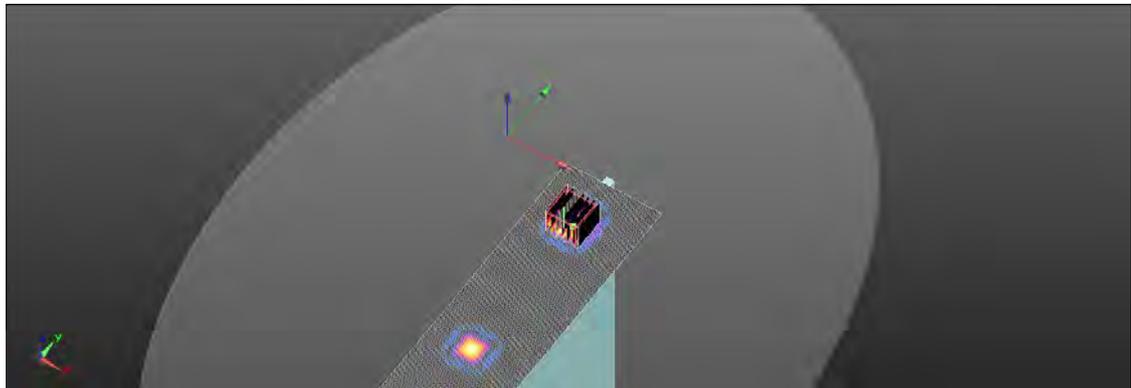
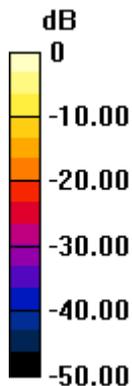
Peak SAR (extrapolated) = 0.225 W/kg

**SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00366 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 = 39.1%

Maximum value of SAR (measured) = 0.0357 W/kg



0 dB = 0.0357 W/kg = -14.47 dBW/kg

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Date: 2022/11/14

ID: 044

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Book\_Left Edge\_CH 155\_0mm\_Tx2

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0379 W/kg

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

Reference Value = 1.587 V/m; Power Drift = 0.19 dB

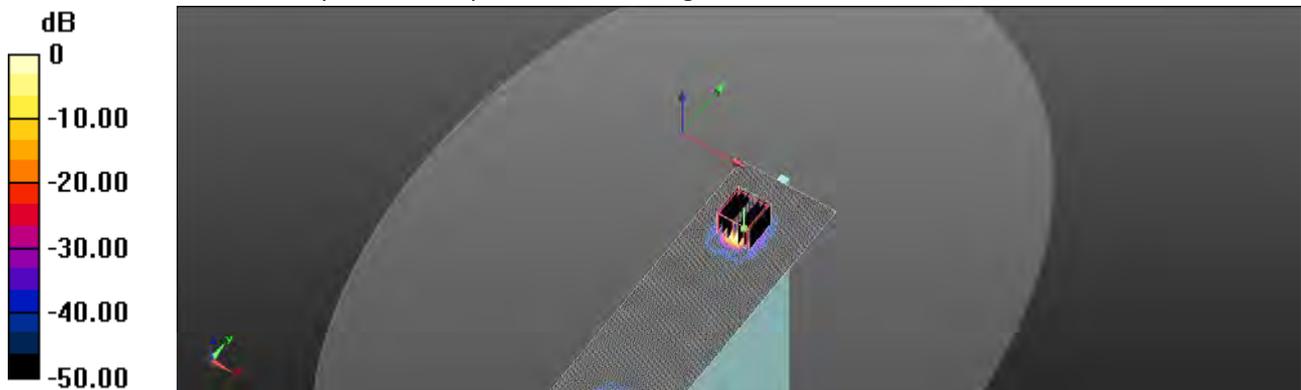
Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00294 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 = 39.3%

Maximum value of SAR (measured) = 0.0303 W/kg



0 dB = 0.0303 W/kg = -15.18 dBW/kg

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Date: 2022/11/14

ID: 045

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Book\_Left Edge\_CH 171\_0mm\_Tx2

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0420 W/kg

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

Reference Value = 1.548 V/m; Power Drift = 0.19 dB

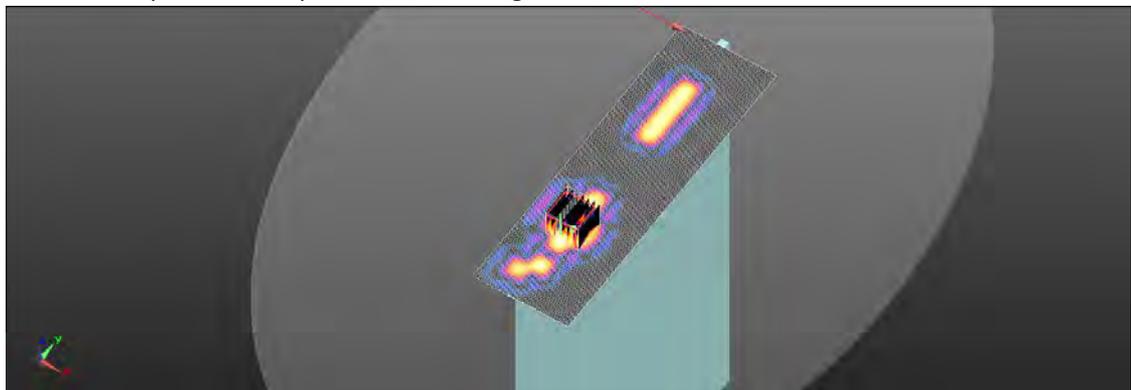
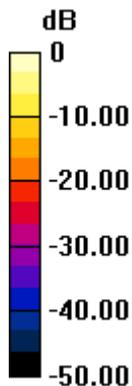
Peak SAR (extrapolated) = 0.299 W/kg

**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00301 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 = 46.5%

Maximum value of SAR (measured) = 0.0514 W/kg



0 dB = 0.0514 W/kg = -13.77 dBW/kg

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Date: 2022/11/10

ID: 046

Report No. :TESA2210000423ES

WLAN 802.11b\_Book\_Right Edge\_CH 11\_0mm\_Tx1

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.816 \text{ S/m}$ ;  $\epsilon_r = 39.372$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x211x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.264 W/kg

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

Reference Value = 1.384 V/m; Power Drift = 0.13 dB

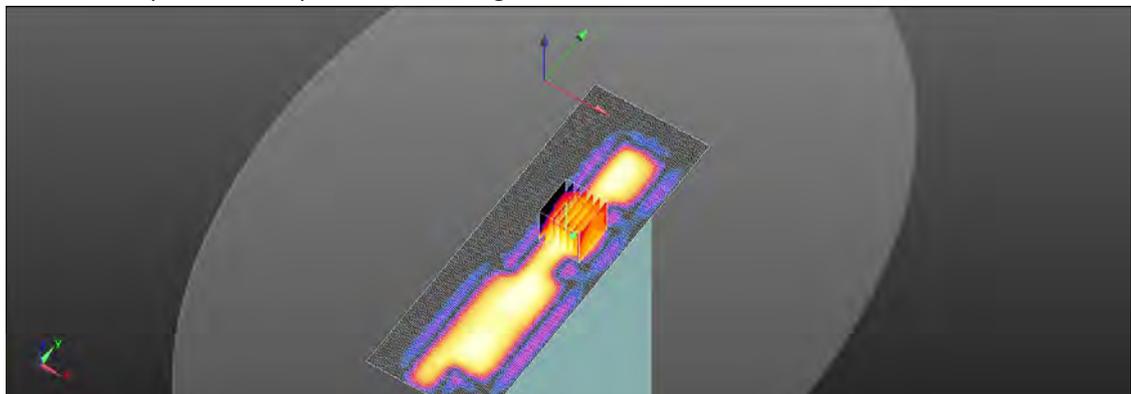
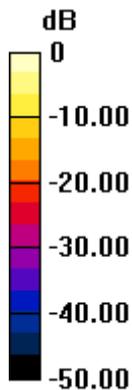
Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.031 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 42.3%

Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.90 dBW/kg

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Date: 2022/11/10

ID: 047

Report No. :TESA2210000423ES

Bluetooth(GFSK)\_Book\_Right Edge\_CH 39\_0mm\_Tx1

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

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.811 \text{ S/m}$ ;  $\epsilon_r = 39.547$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x211x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.153 W/kg

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

Reference Value = 1.372 V/m; Power Drift = 0.11 dB

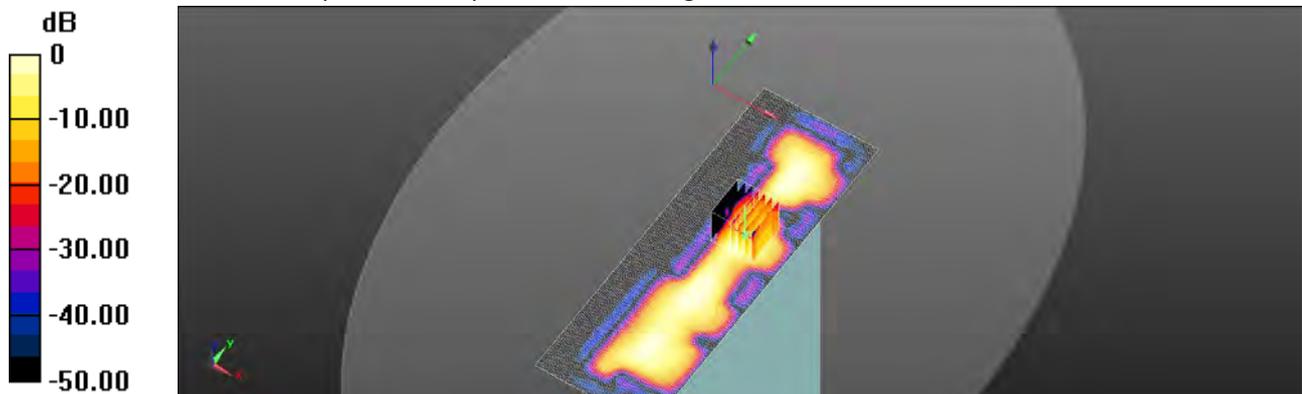
Peak SAR (extrapolated) = 0.198 W/kg

**SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.024 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 0.0985 W/kg



0 dB = 0.0985 W/kg = -10.07 dBW/kg

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Date: 2022/11/11

ID: 048

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Book\_Right Edge\_CH 38\_0mm\_Tx1

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.117 W/kg

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

Reference Value = 4.314 V/m; Power Drift = 0.14 dB

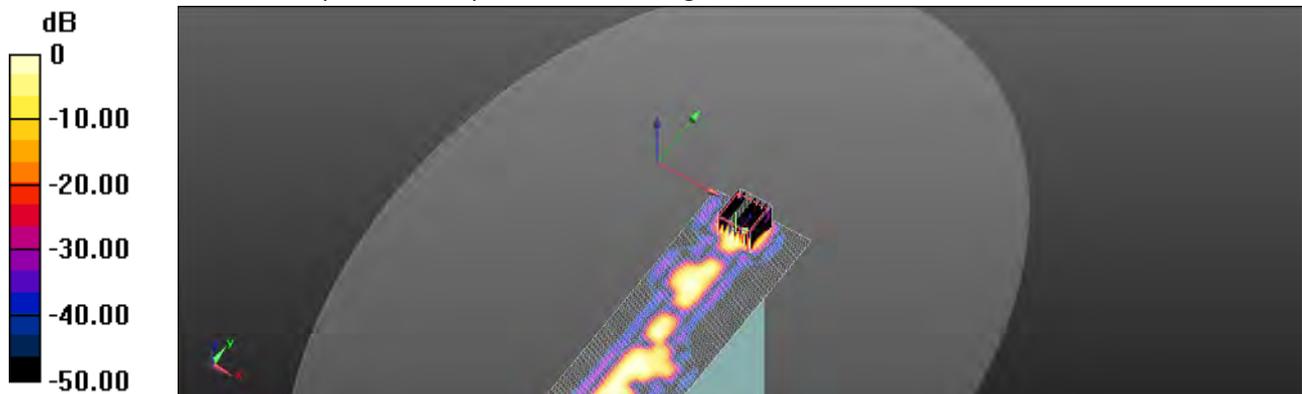
Peak SAR (extrapolated) = 0.147 W/kg

**SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.00868 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

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

Maximum value of SAR (measured) = 0.0788 W/kg



0 dB = 0.0788 W/kg = -11.03 dBW/kg

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Member of SGS Group

Date: 2022/11/12

ID: 050

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Book\_Right Edge\_CH 62\_0mm\_Tx1

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.181 W/kg

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

Reference Value = 3.291 V/m; Power Drift = 0.09 dB

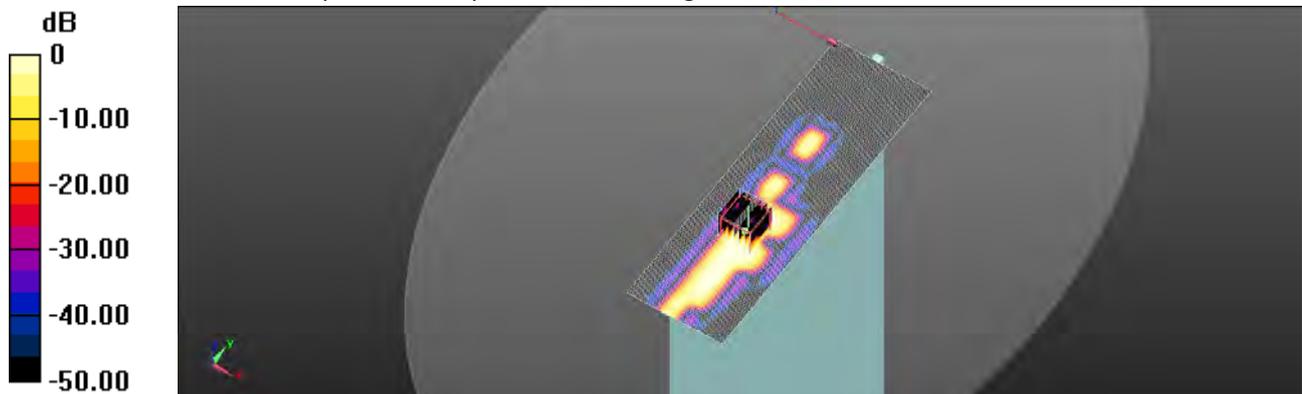
Peak SAR (extrapolated) = 0.175 W/kg

**SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.012 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 0.0880 W/kg



0 dB = 0.0880 W/kg = -10.56 dBW/kg

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

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Date: 2022/11/13

ID: 051

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Book\_Right Edge\_CH 138\_0mm\_Tx1

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0650 W/kg

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

Reference Value = 4.347 V/m; Power Drift = 0.12 dB

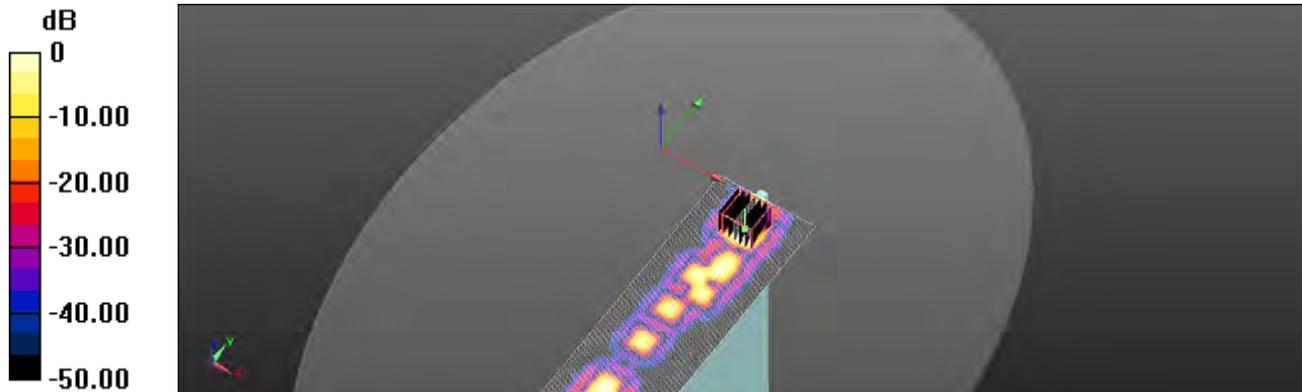
Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.00692 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 46.3%

Maximum value of SAR (measured) = 0.0688 W/kg



0 dB = 0.0688 W/kg = -11.63 dBW/kg

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Date: 2022/11/14

ID: 052

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Book\_Right Edge\_CH 155\_0mm\_Tx1

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.354 W/kg

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

Reference Value = 1.184 V/m; Power Drift = 0.09 dB

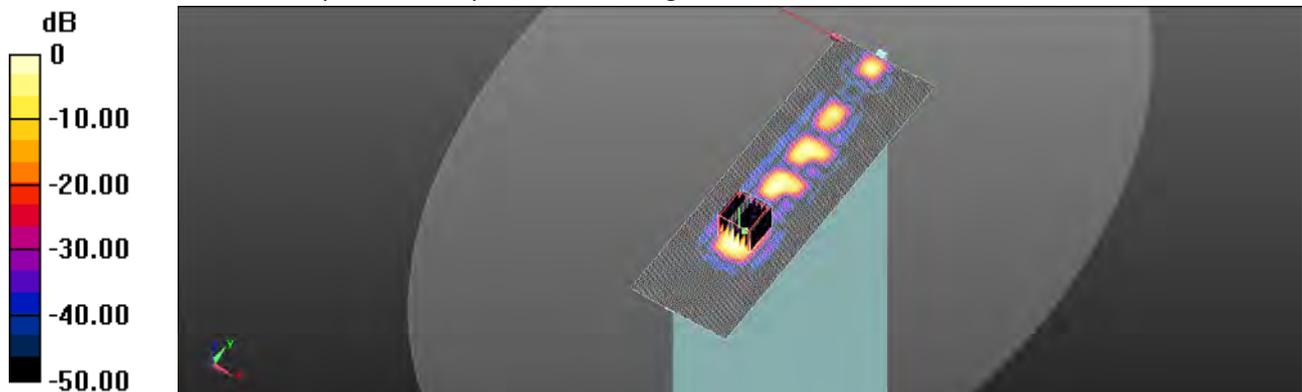
Peak SAR (extrapolated) = 0.297 W/kg

**SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.017 W/kg**

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

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

Maximum value of SAR (measured) = 0.148 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

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Date: 2022/11/14

ID: 053

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Book\_Right Edge\_CH 171\_0mm\_Tx1

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.440 W/kg

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

Reference Value = 6.147 V/m; Power Drift = 0.17 dB

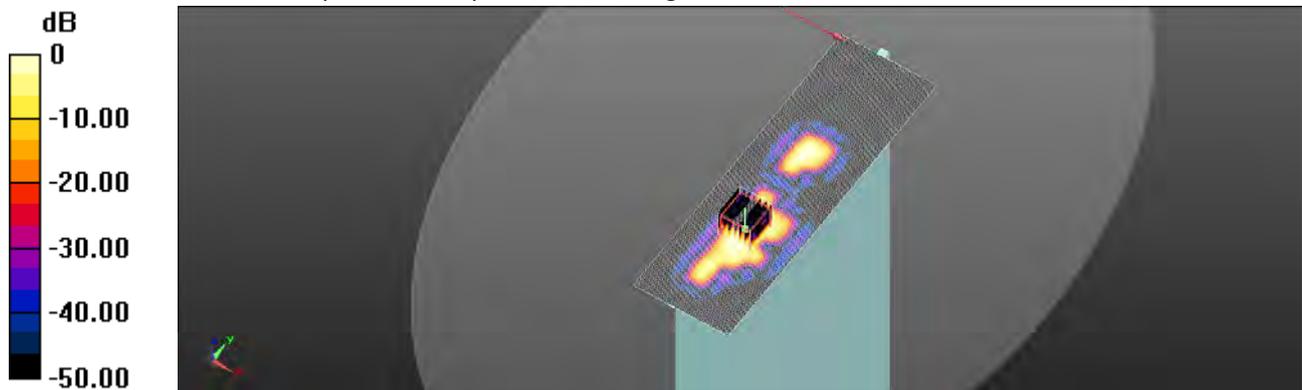
Peak SAR (extrapolated) = 0.590 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.027 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

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

Maximum value of SAR (measured) = 0.219 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg

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Date: 2022/11/10

ID: 054

Report No. :TESA2210000423ES

WLAN 802.11b\_Book\_Left Edge\_CH 1\_0mm\_Tx2

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.005

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.785 \text{ S/m}$ ;  $\epsilon_r = 39.593$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- 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) = 0.00822 W/kg

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

Reference Value = 3.317 V/m; Power Drift = 0.08 dB

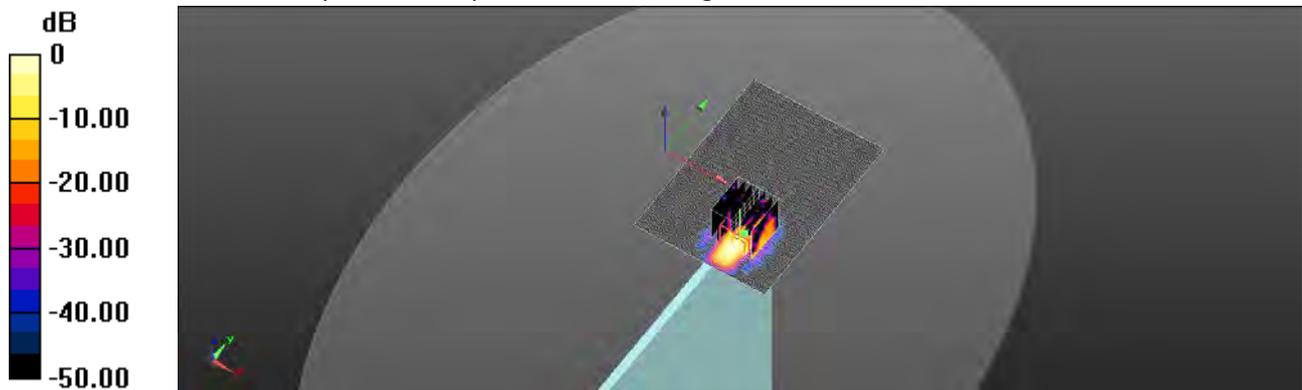
Peak SAR (extrapolated) = 0.0140 W/kg

**SAR(1 g) = 0.00516 W/kg; SAR(10 g) = 0.00123 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 0.00933 W/kg



0 dB = 0.00933 W/kg = -20.30 dBW/kg

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Date: 2022/11/11

ID: 055

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.2G\_Book\_Left Edge\_CH 38\_0mm\_Tx2

Communication System: WLAN; Frequency: 5190 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.59 \text{ S/m}$ ;  $\epsilon_r = 35.806$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.192 W/kg

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

Reference Value = 5.354 V/m; Power Drift = 0.07 dB

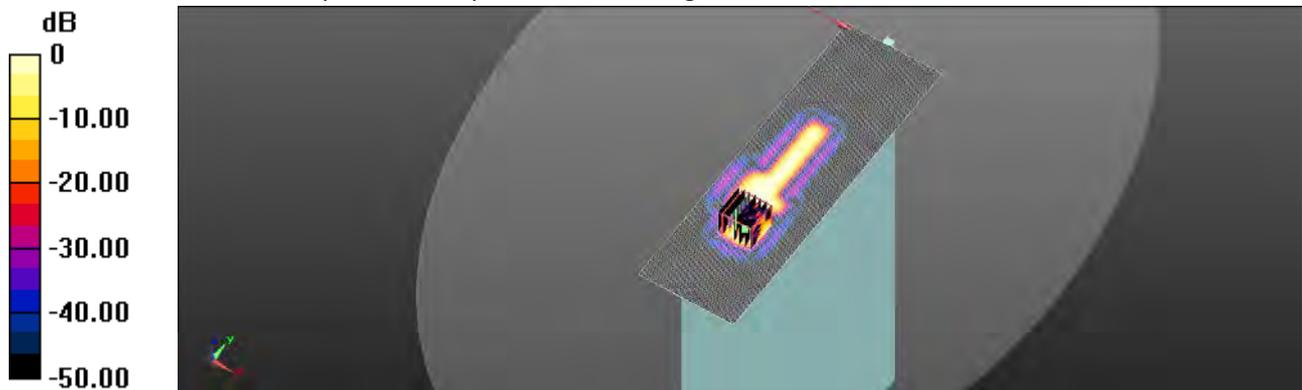
Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.010 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 0.0612 W/kg



0 dB = 0.0612 W/kg = -12.11 dBW/kg

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Date: 2022/11/12

ID: 057

Report No. :TESA2210000423ES

WLAN 802.11n(40M) 5.3G\_Book\_Left Edge\_CH 62\_0mm\_Tx2

Communication System: WLAN; Frequency: 5310 MHz; Duty cycle= 1:1.051

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.71 \text{ S/m}$ ;  $\epsilon_r = 35.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0683 W/kg

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

Reference Value = 4.827 V/m; Power Drift = 0.05 dB

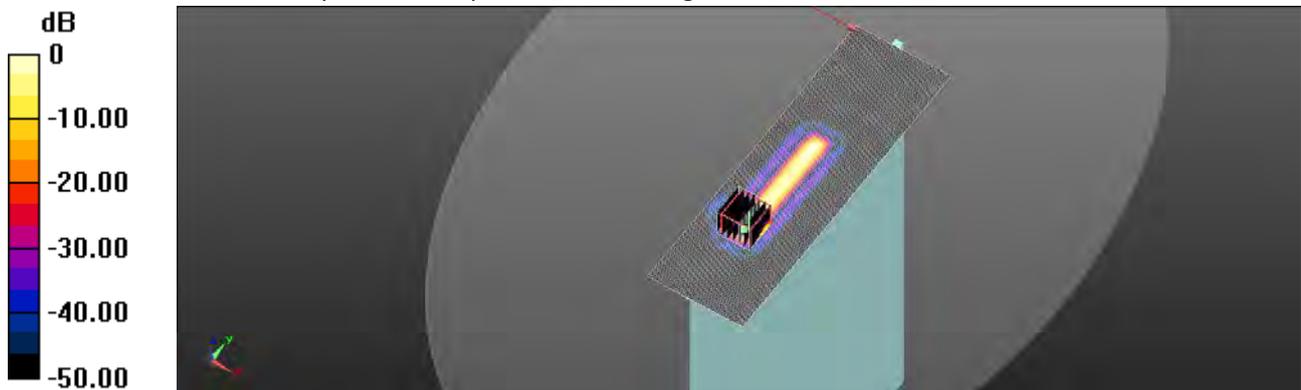
Peak SAR (extrapolated) = 0.332 W/kg

**SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.00626 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 0.0759 W/kg



0 dB = 0.0759 W/kg = -11.20 dBW/kg

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Date: 2022/11/13

ID: 058

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.6G\_Book\_Left Edge\_CH 138\_0mm\_Tx2

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5690 \text{ MHz}$ ;  $\sigma = 5.105 \text{ S/m}$ ;  $\epsilon_r = 35.266$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0815 W/kg

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

Reference Value = 6.132 V/m; Power Drift = 0.02 dB

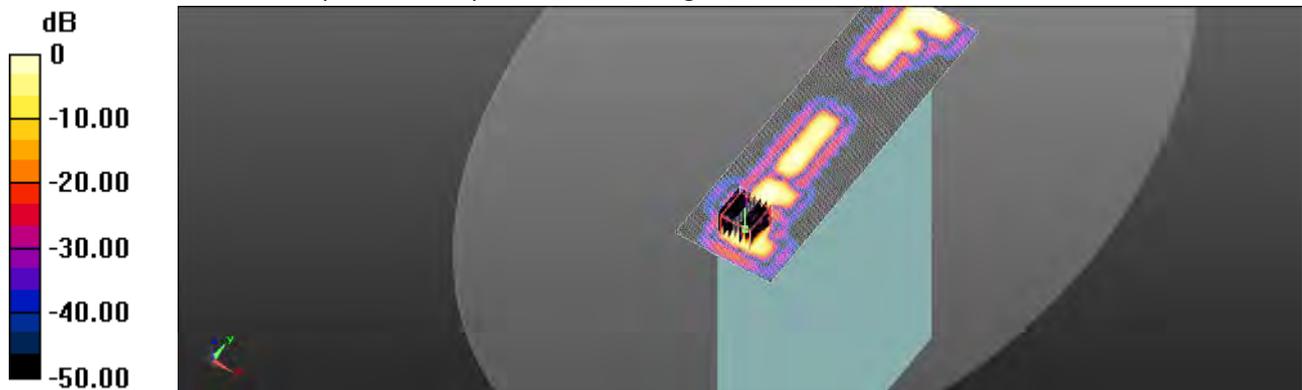
Peak SAR (extrapolated) = 0.327 W/kg

**SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00888 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 0.0738 W/kg



0 dB = 0.0738 W/kg = -11.32 dBW/kg

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Date: 2022/11/14

ID: 059

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.8G\_Book\_Left Edge\_CH 155\_0mm\_Tx2

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.189 \text{ S/m}$ ;  $\epsilon_r = 35.092$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x231x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

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

Reference Value = 5.734 V/m; Power Drift = 0.13 dB

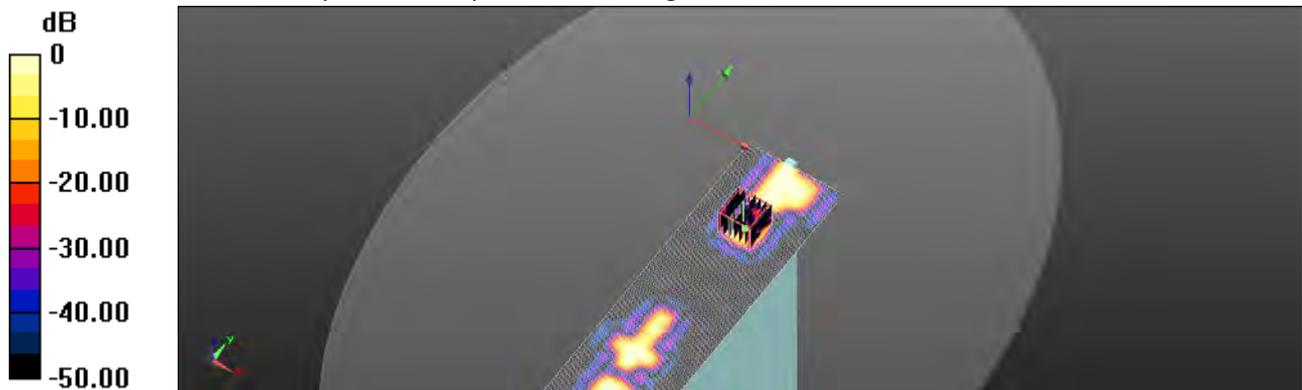
Peak SAR (extrapolated) = 0.442 W/kg

**SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.012 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 0.101 W/kg



0 dB = 0.101 W/kg = -9.96 dBW/kg

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Date: 2022/11/14

ID: 060

Report No. :TESA2210000423ES

WLAN 802.11ac(80M) 5.9G\_Book\_Left Edge\_CH 171\_0mm\_Tx2

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1.098

Medium parameters used:  $f = 5855 \text{ MHz}$ ;  $\sigma = 5.264 \text{ S/m}$ ;  $\epsilon_r = 35.011$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.314 W/kg

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

Reference Value = 6.412 V/m; Power Drift = 0.14 dB

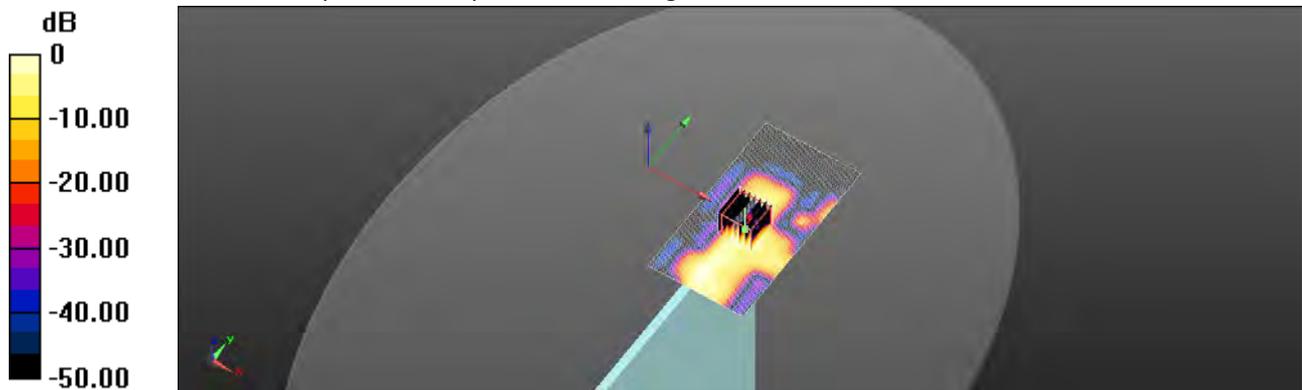
Peak SAR (extrapolated) = 0.603 W/kg

**SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.034 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.332 W/kg



0 dB = 0.332 W/kg = -4.79 dBW/kg

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ID: 061

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

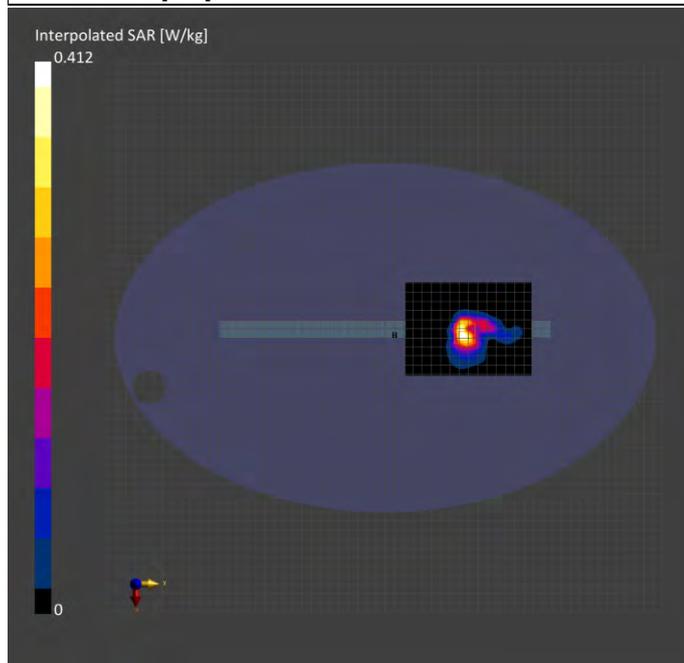
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.296	0.344
psSAR8g [W/kg]	0.119	0.107
psSAR10g [W/kg]	0.107	0.093
psPDab (4.0cm2, sq) [W/m2]		2.14
Power Drift [dB]	0.04	0.06
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		3.4



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ID: 062

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.816	34.454

**Hardware Setup**

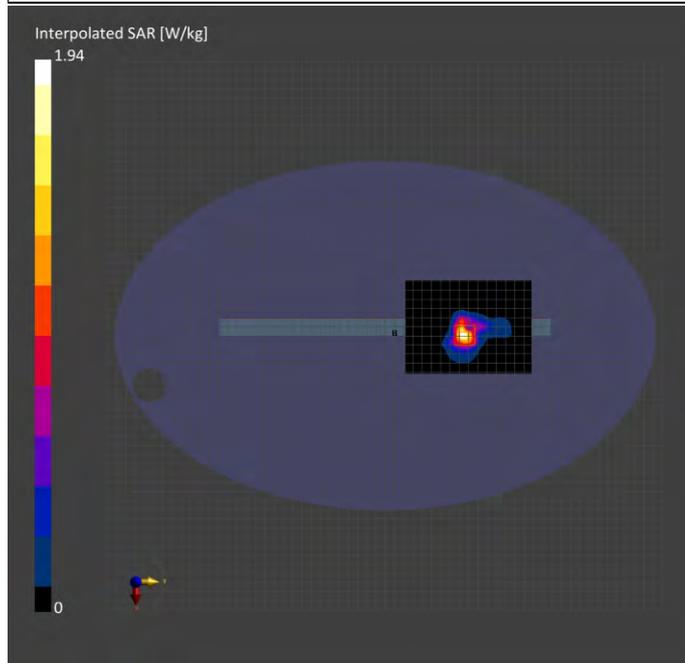
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.355	0.367
psSAR8g [W/kg]	0.133	0.128
psSAR10g [W/kg]	0.118	0.114
psPDab (4.0cm2, sq) [W/m2]		2.57
Power Drift [dB]	0.11	0.15
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		5.2



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ID: 063

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

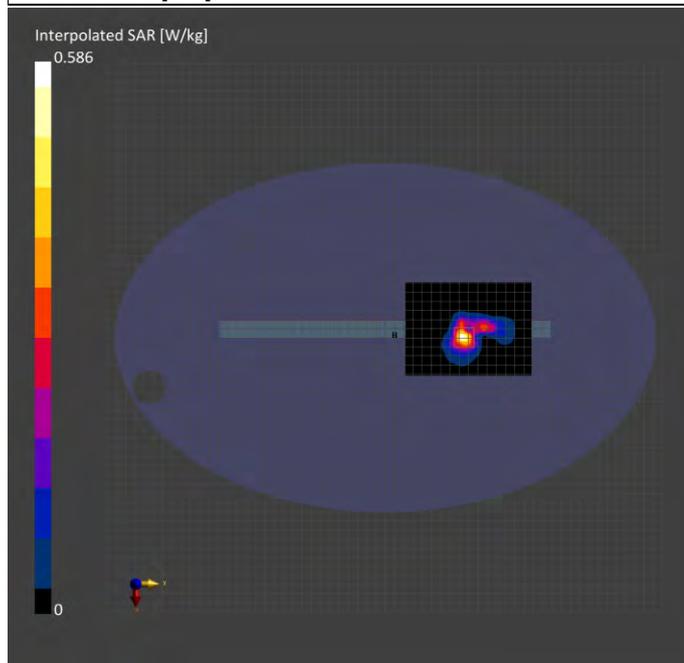
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.415	0.418
psSAR8g [W/kg]	0.153	0.143
psSAR10g [W/kg]	0.135	0.128
psPDab (4.0cm2, sq) [W/m2]		2.87
Power Drift [dB]	0.12	0.16
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		5.0



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ID: 064

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

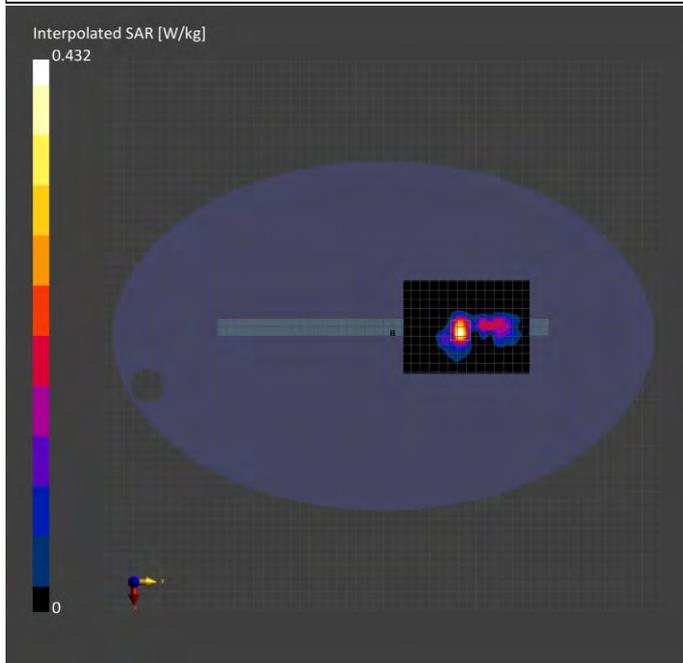
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.320	0.279
psSAR8g [W/kg]	0.112	0.109
psSAR10g [W/kg]	0.098	0.096
psPDab (4.0cm2, sq) [W/m2]		2.19
Power Drift [dB]	-0.09	0.07
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		4.4



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ID: 065

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

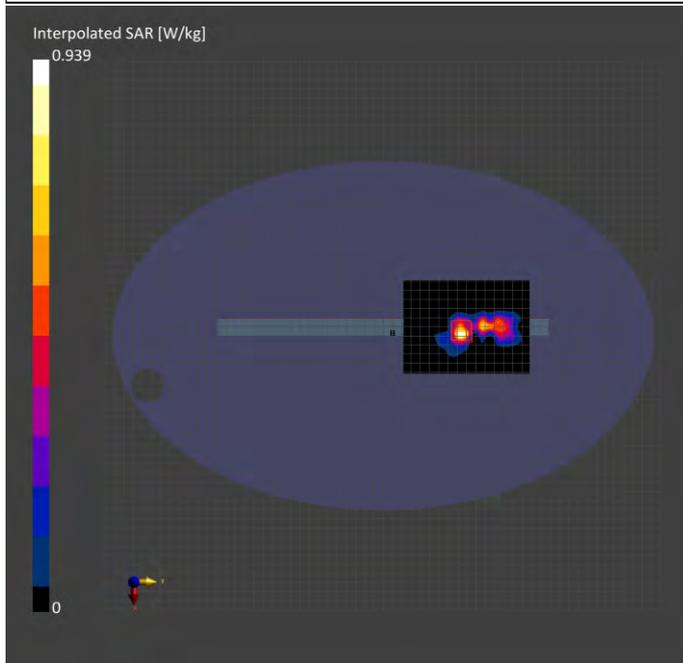
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.186	0.159
psSAR8g [W/kg]	0.063	0.060
psSAR10g [W/kg]	0.055	0.052
psPDab (4.0cm2, sq) [W/m2]		1.20
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		46.4
Dist 3dB Peak [mm]		6.1



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ID: 066

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

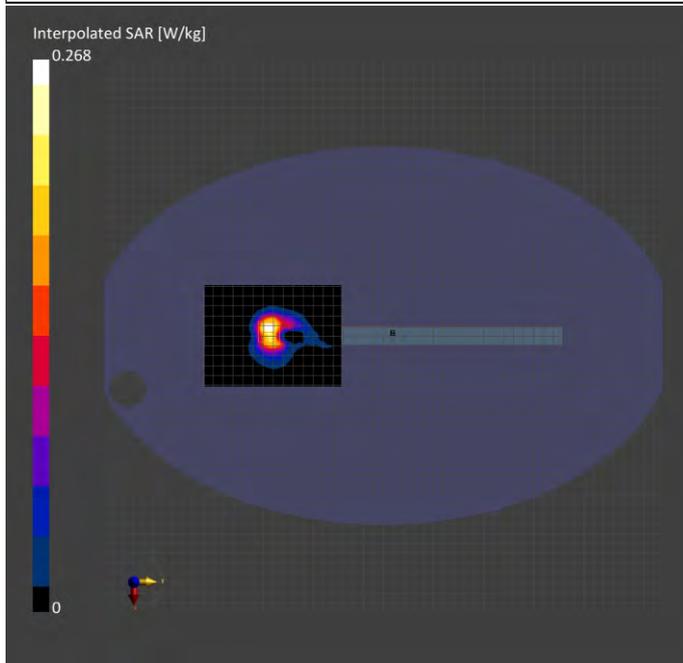
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.198	0.231
psSAR8g [W/kg]	0.081	0.083
psSAR10g [W/kg]	0.072	0.073
psPDab (4.0cm2, sq) [W/m2]		1.65
Power Drift [dB]	0.09	0.15
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		5.0



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ID: 067

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.632	34.644

**Hardware Setup**

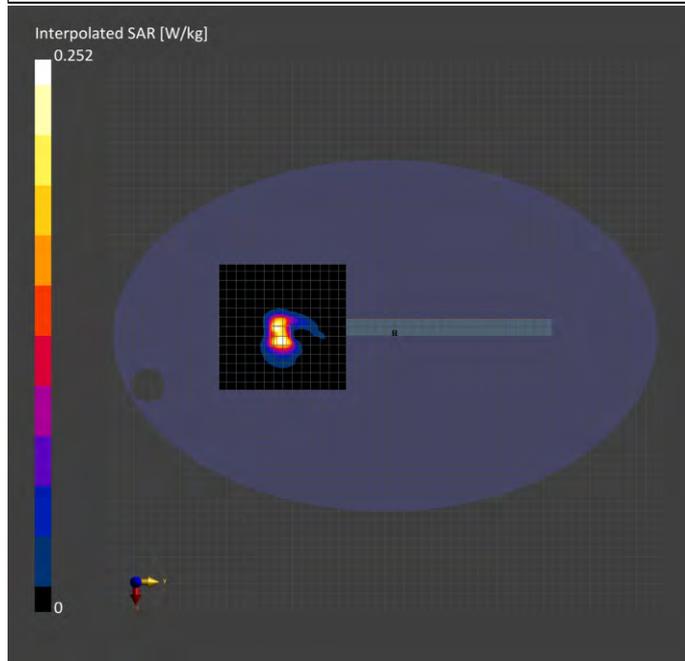
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.184	0.227
psSAR8g [W/kg]	0.077	0.079
psSAR10g [W/kg]	0.069	0.071
psPDab (4.0cm2, sq) [W/m2]		1.58
Power Drift [dB]	0.09	0.14
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		4.1



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ID: 068

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

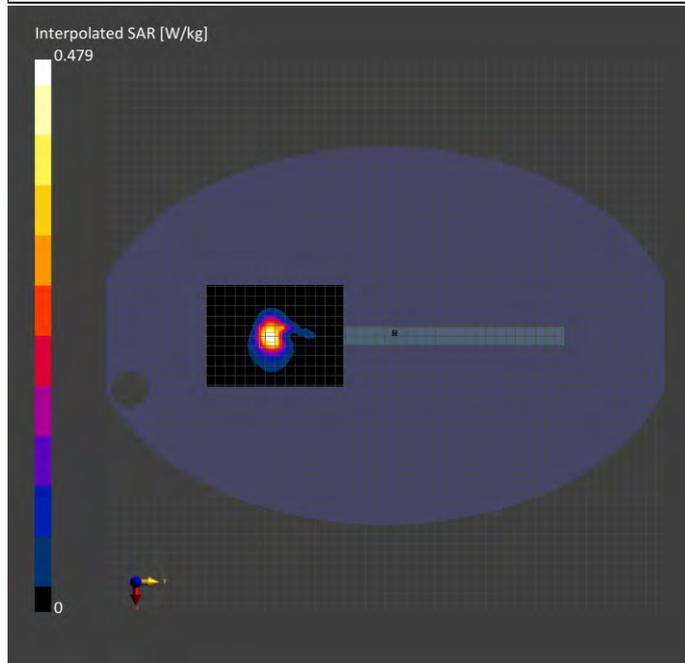
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.374	0.442
psSAR8g [W/kg]	0.154	0.166
psSAR10g [W/kg]	0.137	0.149
psPDab (4.0cm2, sq) [W/m2]		3.33
Power Drift [dB]	-0.07	0.14
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		5.4



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ID: 069

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

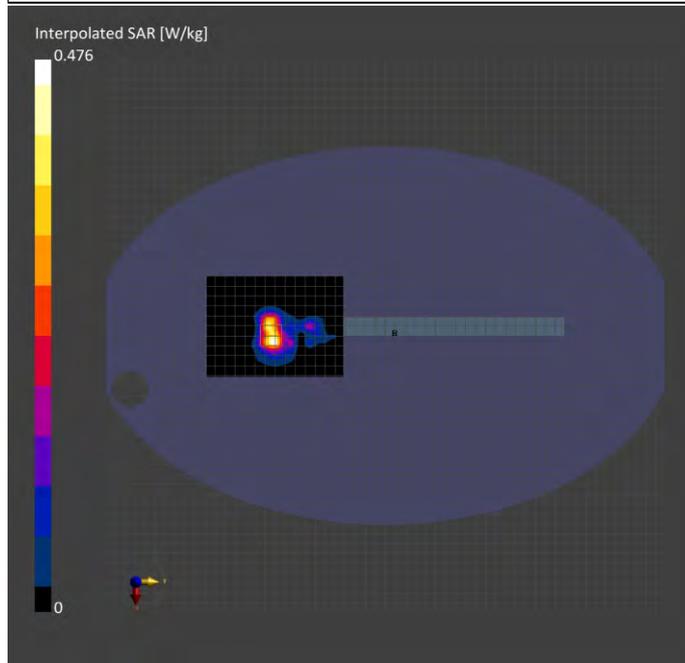
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.356	0.404
psSAR8g [W/kg]	0.141	0.139
psSAR10g [W/kg]	0.126	0.123
psPDab (4.0cm2, sq) [W/m2]		2.78
Power Drift [dB]	0.14	-0.14
M2/M1 [%]		49.1
Dist 3dB Peak [mm]		5.4



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Member of SGS Group

ID: 070

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

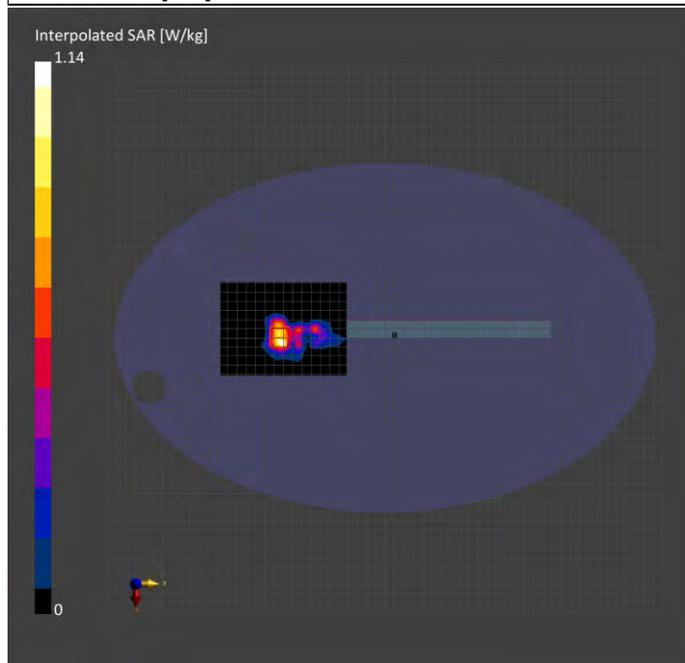
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.188	0.212
psSAR8g [W/kg]	0.075	0.074
psSAR10g [W/kg]	0.067	0.066
psPDab (4.0cm2, sq) [W/m2]		1.49
Power Drift [dB]	0.13	0.11
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		5.4



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ID: 071

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

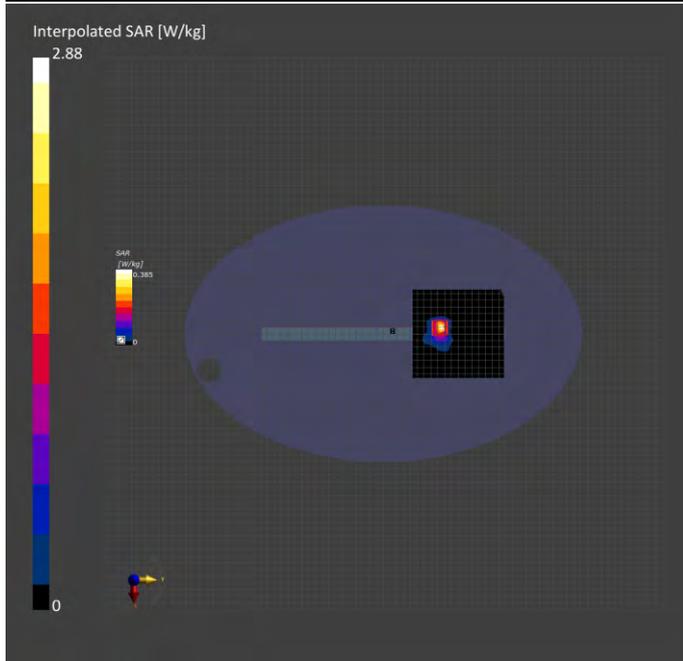
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	2.7 x 2.7 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.440	0.450
psSAR8g [W/kg]	0.136	0.128
psSAR10g [W/kg]	0.118	0.111
psPDab (4.0cm2, sq) [W/m2]		2.57
Power Drift [dB]	-0.14	-0.09
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		3.5



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ID: 072

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.816	34.454

**Hardware Setup**

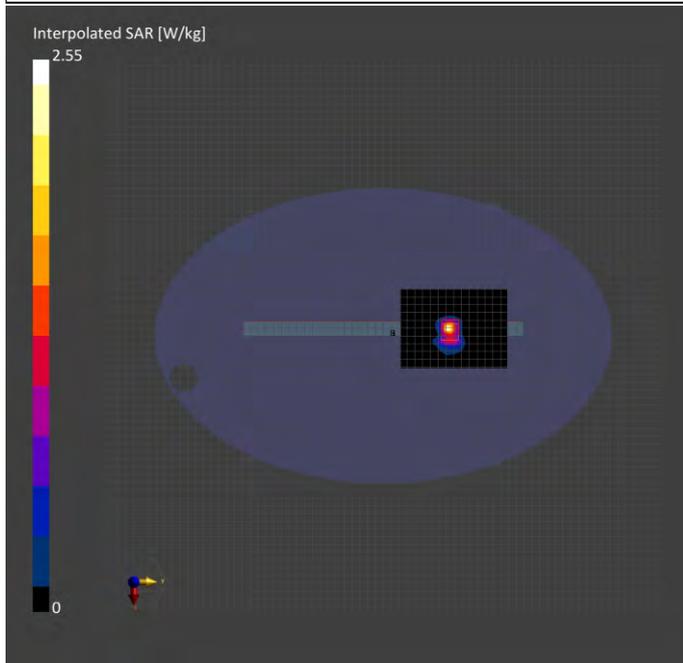
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.2 x 3.2 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.354	0.393
psSAR8g [W/kg]	0.120	0.111
psSAR10g [W/kg]	0.106	0.094
psPDab (4.0cm2, sq) [W/m2]		2.22
Power Drift [dB]	0.10	0.10
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		3.7



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ID: 073

Report No. :TESA2210000423ES

Measurement Report for Device, Top Edge, U-NII-6,  
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX1  
Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

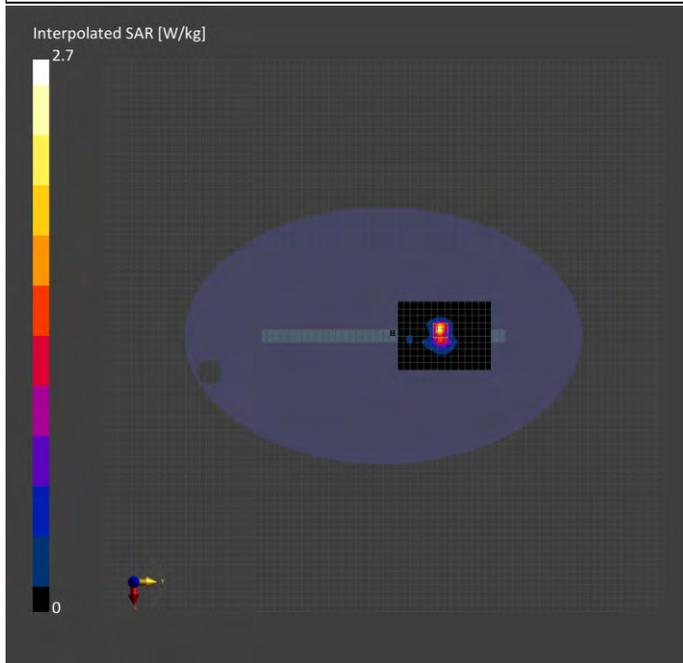
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.353	0.425
psSAR8g [W/kg]	0.124	0.124
psSAR10g [W/kg]	0.109	0.108
psPDab (4.0cm2, sq) [W/m2]		2.47
Power Drift [dB]	-0.12	0.20
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		3.0



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ID: 074

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

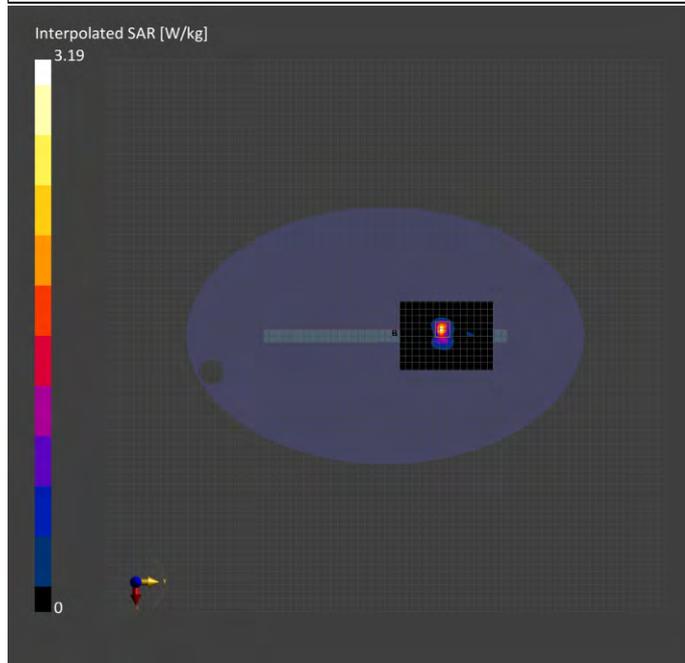
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.430	0.483
psSAR8g [W/kg]	0.142	0.139
psSAR10g [W/kg]	0.124	0.121
psPDab (4.0cm2, sq) [W/m2]		2.79
Power Drift [dB]	0.20	0.18
M2/M1 [%]		48.0
Dist 3dB Peak [mm]		4.0



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ID: 075

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

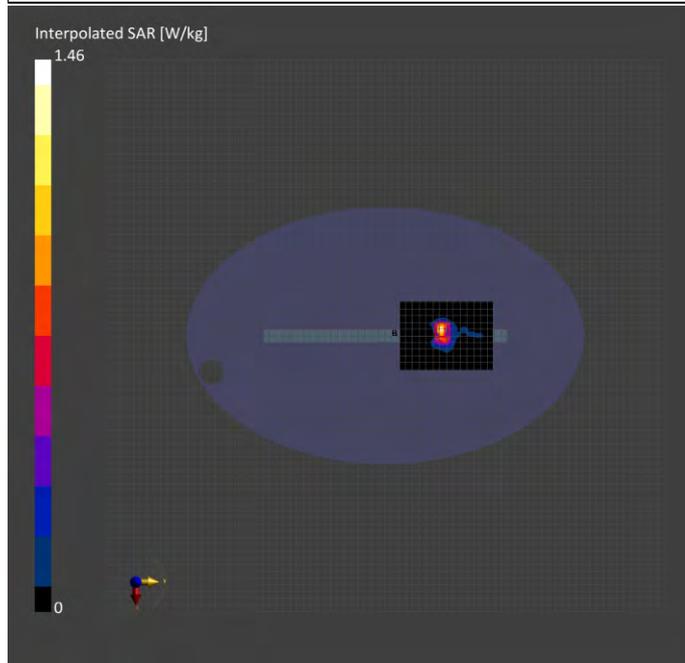
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.221	0.228
psSAR8g [W/kg]	0.075	0.068
psSAR10g [W/kg]	0.067	0.059
psPDab (4.0cm2, sq) [W/m2]		1.36
Power Drift [dB]	0.11	-0.04
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		4.2



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ID: 076

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

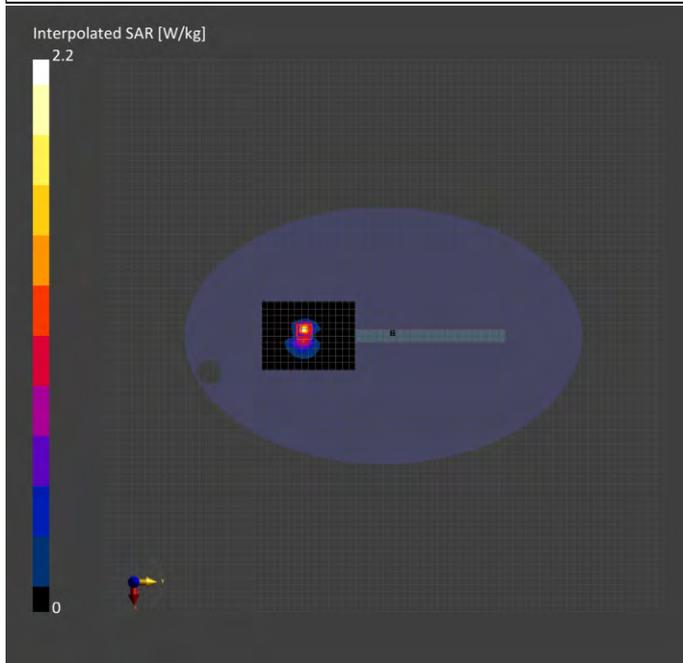
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.2 x 3.2 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.310	0.366
psSAR8g [W/kg]	0.106	0.107
psSAR10g [W/kg]	0.094	0.093
psPDab (4.0cm2, sq) [W/m2]		2.15
Power Drift [dB]	0.19	-0.12
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		3.4



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ID: 077

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	5.632	34.644

**Hardware Setup**

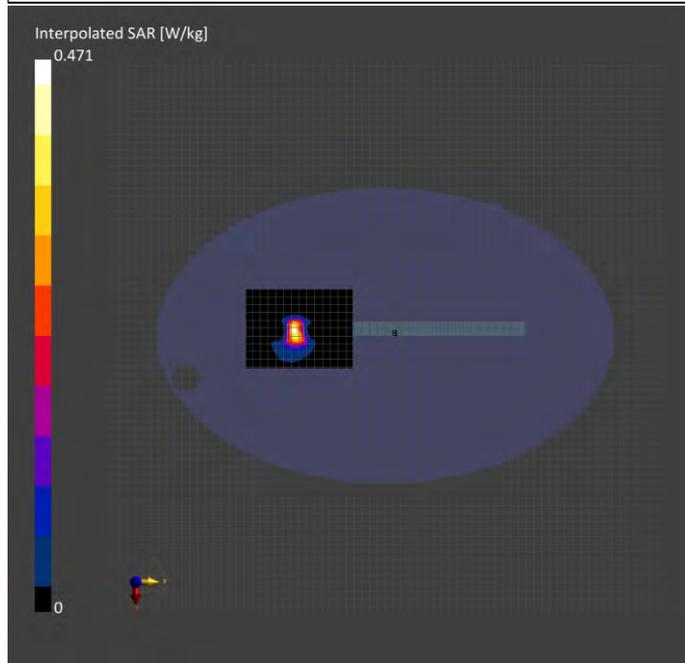
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.327	0.397
psSAR8g [W/kg]	0.130	0.130
psSAR10g [W/kg]	0.116	0.112
psPDab (4.0cm2, sq) [W/m2]		2.59
Power Drift [dB]	-0.12	-0.17
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		4.0



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ID: 078

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

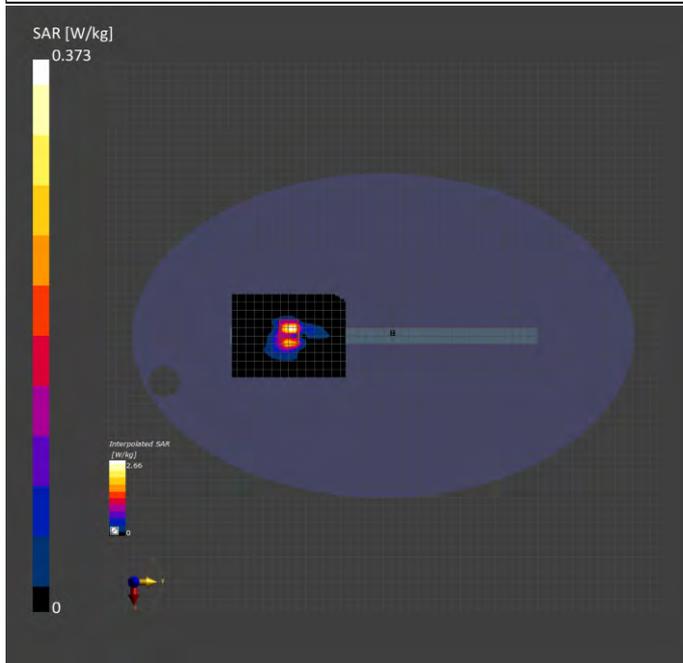
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.438	0.408
psSAR8g [W/kg]	0.140	0.125
psSAR10g [W/kg]	0.126	0.106
psPDab (4.0cm2, sq) [W/m2]		2.50
Power Drift [dB]	0.08	-0.14
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		4.8



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ID: 079

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

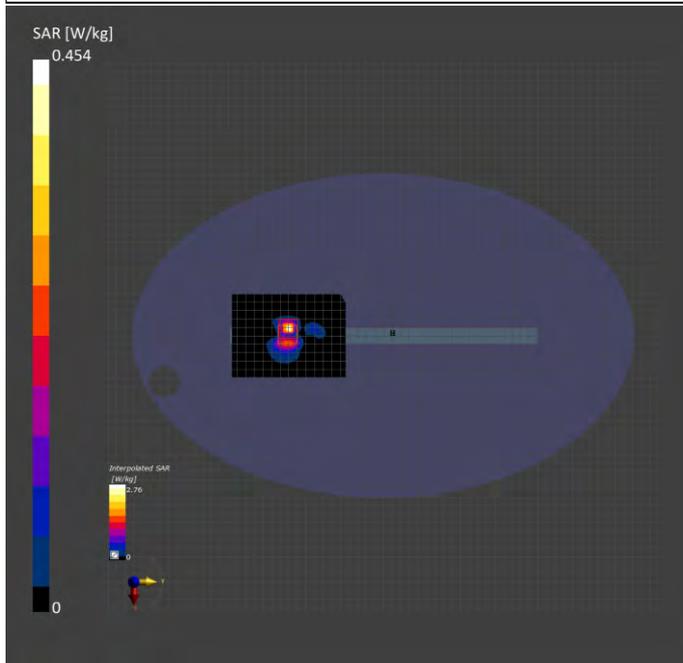
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.441	0.425
psSAR8g [W/kg]	0.121	0.114
psSAR10g [W/kg]	0.107	0.097
psPDab (4.0cm2, sq) [W/m2]		2.28
Power Drift [dB]	0.11	-0.16
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		4.4



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ID: 080

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Top Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

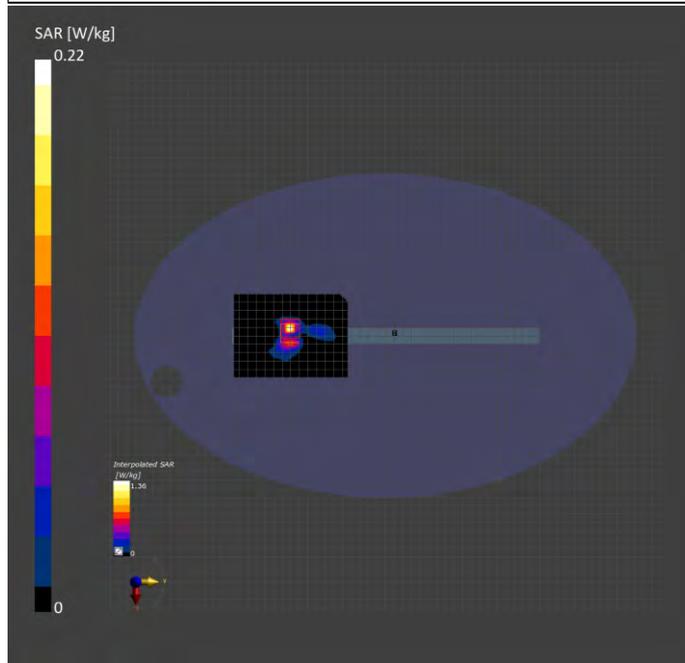
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

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

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.219	0.209
psSAR8g [W/kg]	0.063	0.056
psSAR10g [W/kg]	0.056	0.048
psPDab (4.0cm2, sq) [W/m2]		1.13
Power Drift [dB]	0.11	0.16
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		4.4



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ID: 081

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

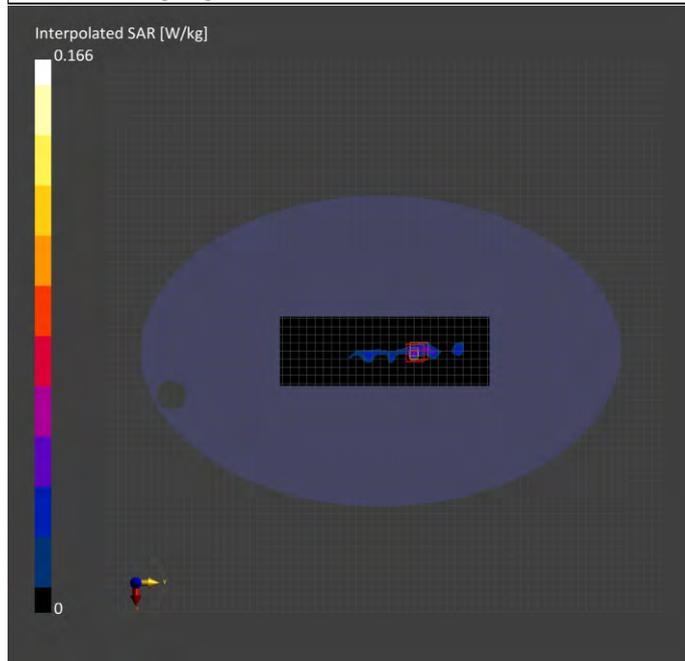
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.022	0.031
psSAR8g [W/kg]	0.008	0.009
psSAR10g [W/kg]	0.007	0.008
psPDab (4.0cm2, sq) [W/m2]		0.189
Power Drift [dB]	-0.08	0.06
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		> 11.0



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ID: 082

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	5.816	34.454

**Hardware Setup**

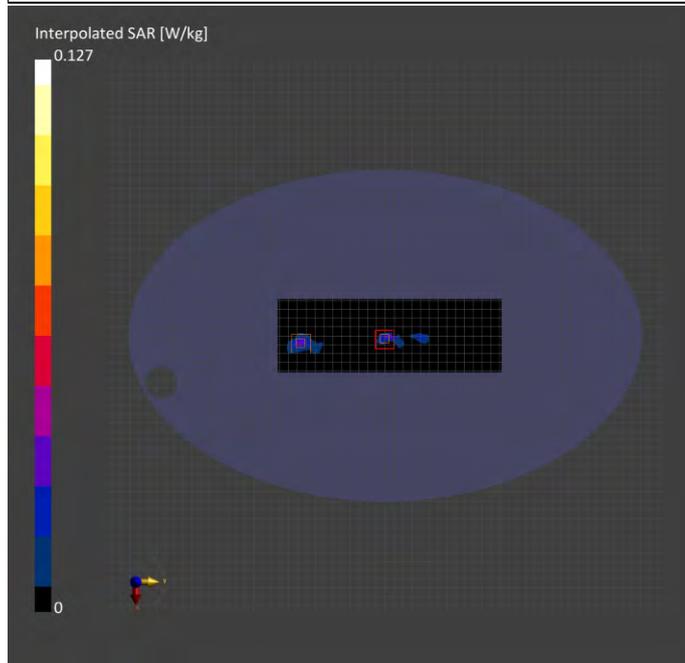
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.021	0.018
psSAR8g [W/kg]	0.007	0.006
psSAR10g [W/kg]	0.006	0.005
psPDab (4.0cm2, sq) [W/m2]		0.111
Power Drift [dB]	0.08	0.15
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		> 11.0



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ID: 083

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

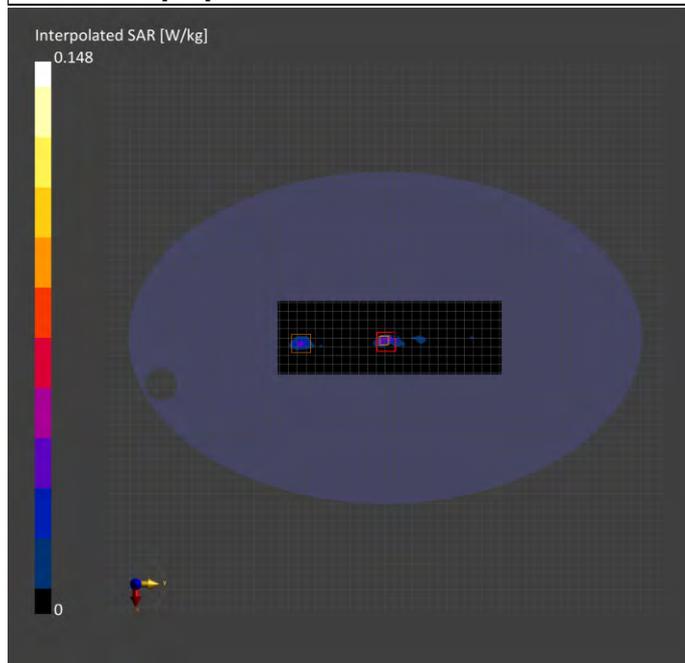
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.022	0.021
psSAR8g [W/kg]	0.006	0.007
psSAR10g [W/kg]	0.005	0.006
psPDab (4.0cm2, sq) [W/m2]		0.131
Power Drift [dB]	0.08	0.14
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		> 11.0



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ID: 084

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

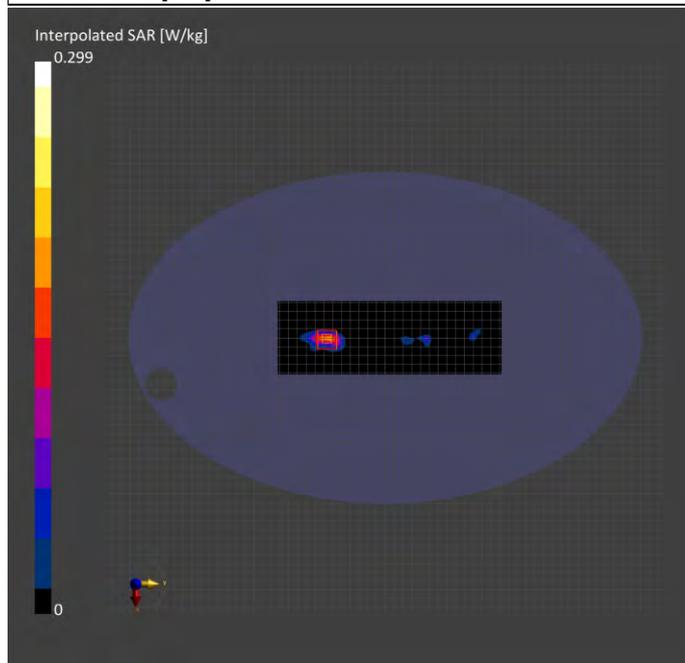
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.047	0.054
psSAR8g [W/kg]	0.017	0.019
psSAR10g [W/kg]	0.015	0.017
psPDab (4.0cm2, sq) [W/m2]		0.381
Power Drift [dB]	0.13	0.14
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		4.1



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ID: 085

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

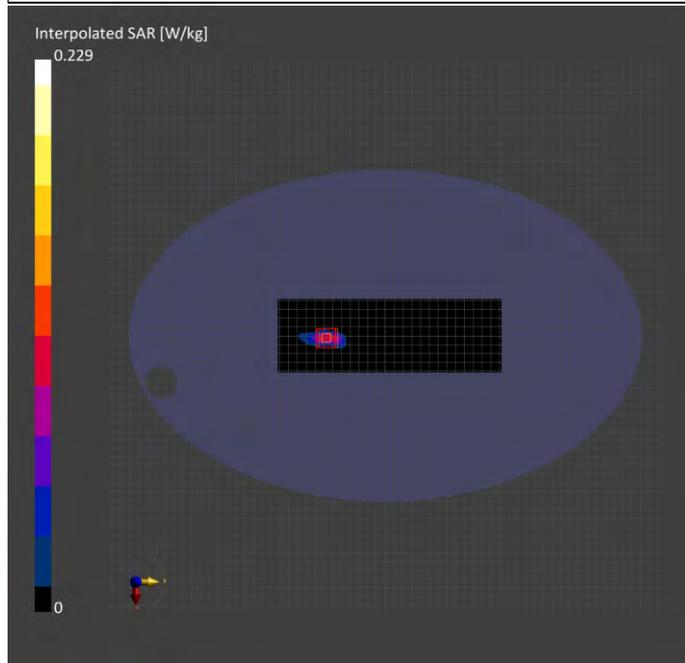
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.038	0.040
psSAR8g [W/kg]	0.013	0.013
psSAR10g [W/kg]	0.011	0.012
psPDab (4.0cm2, sq) [W/m2]		0.270
Power Drift [dB]	0.08	0.12
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		4.1



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ID: 086

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

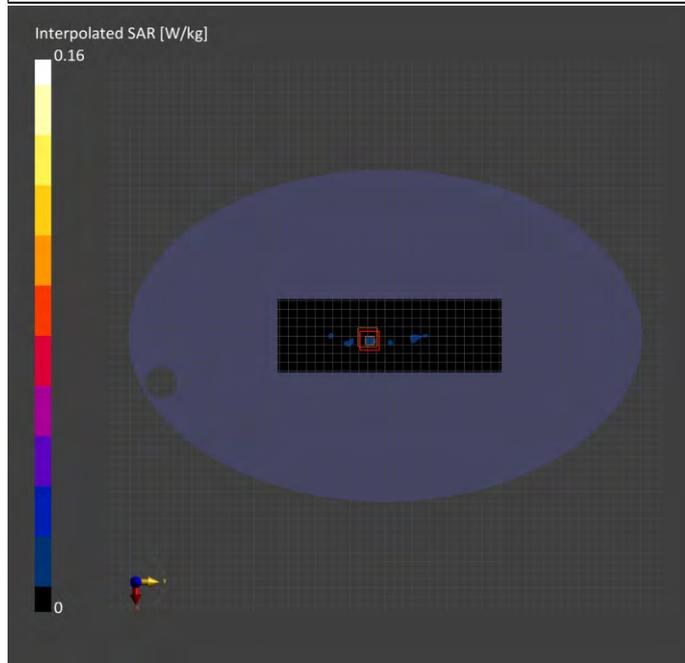
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.016	0.023
psSAR8g [W/kg]	0.004	0.006
psSAR10g [W/kg]	0.003	0.005
psPDab (4.0cm2, sq) [W/m2]		0.122
Power Drift [dB]	0.05	0.05
M2/M1 [%]		64.6
Dist 3dB Peak [mm]		> 11.0



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Member of SGS Group

ID: 087

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	5.632	34.644

**Hardware Setup**

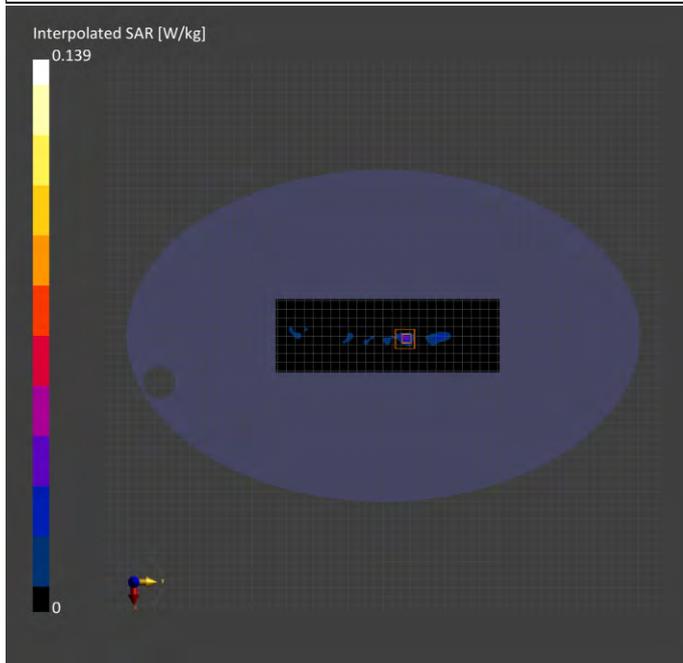
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.021	0.022
psSAR8g [W/kg]	0.005	0.006
psSAR10g [W/kg]	0.004	0.005
psPDab (4.0cm2, sq) [W/m2]		0.120
Power Drift [dB]	0.07	0.11
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		> 11.0



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ID: 088

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

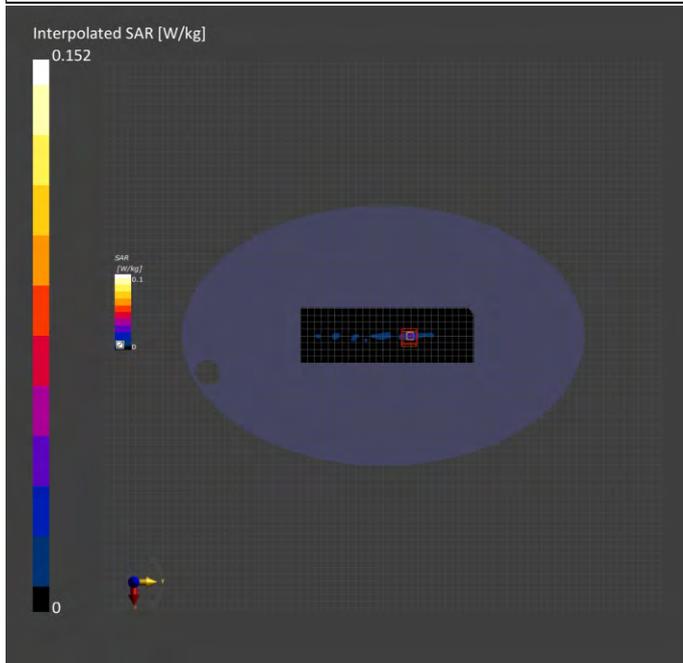
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.014	0.018
psSAR8g [W/kg]	0.003	0.005
psSAR10g [W/kg]	0.002	0.004
psPDab (4.0cm2, sq) [W/m2]		0.101
Power Drift [dB]	0.03	0.06
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		> 11.0



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ID: 089

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

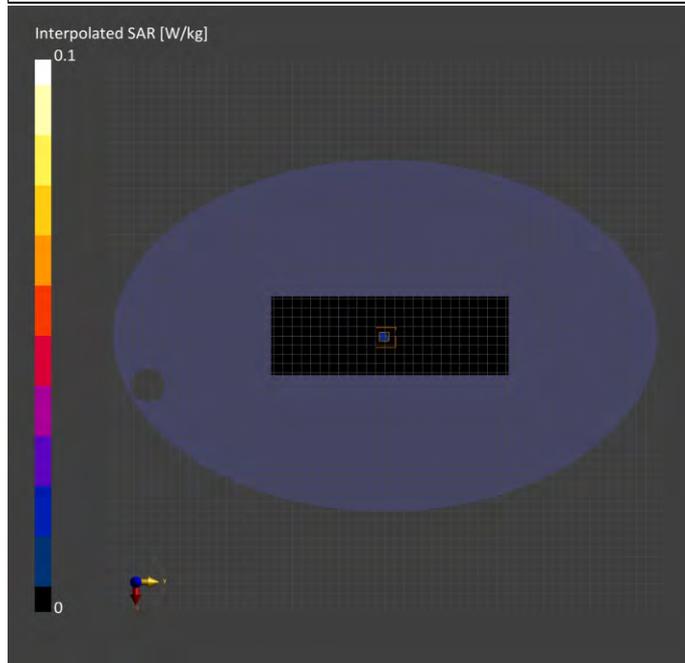
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.011	0.015
psSAR8g [W/kg]	0.002	0.004
psSAR10g [W/kg]	0.002	0.003
psPDab (4.0cm2, sq) [W/m2]		0.082
Power Drift [dB]	0.02	0.12
M2/M1 [%]		58.3
Dist 3dB Peak [mm]		> 11.0



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ID: 090

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

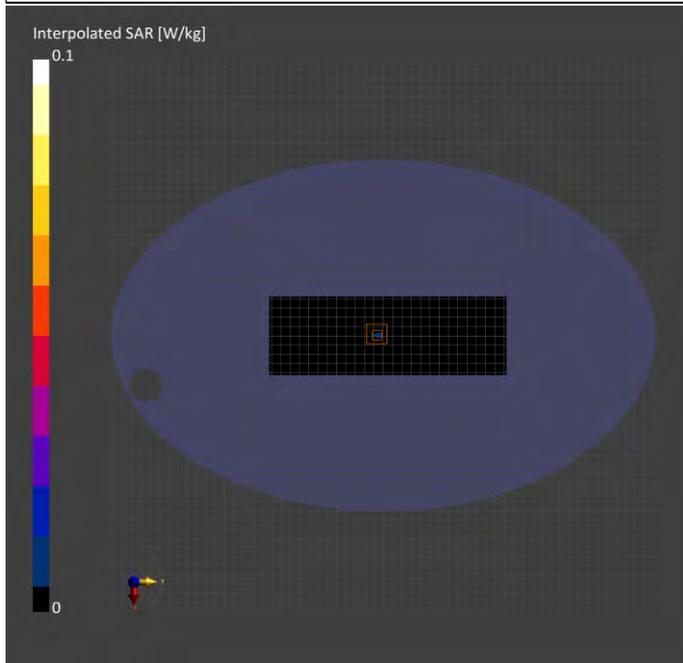
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 255.0	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	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.007	0.011
psSAR8g [W/kg]	0	0.002
psSAR10g [W/kg]	0	0.002
psPDab (4.0cm2, sq) [W/m2]		0.039
Power Drift [dB]	0.02	0.05
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		> 11.0



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ID: 091

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

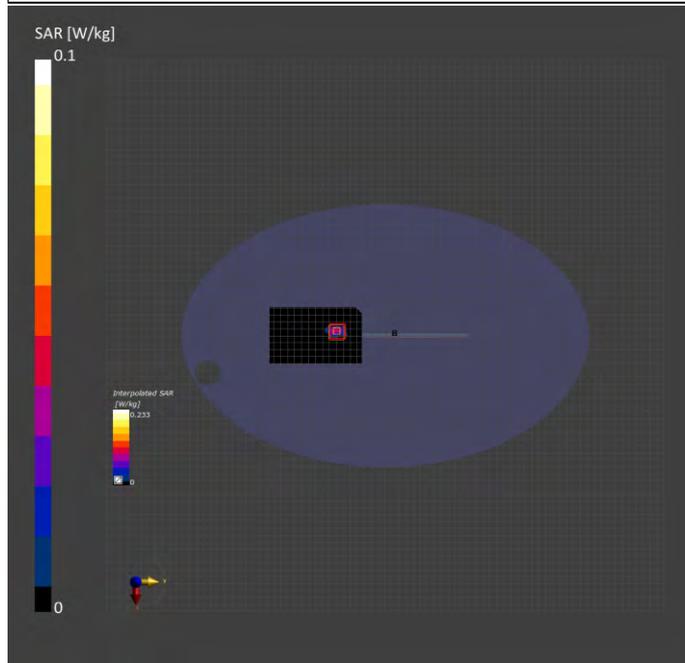
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.1 x 3.1 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.037	0.040
psSAR8g [W/kg]	0.011	0.012
psSAR10g [W/kg]	0.01	0.01
psPDab (4.0cm2, sq) [W/m2]		0.238
Power Drift [dB]	0.01	0.03
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		3.7



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ID: 092

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	5.816	34.454

**Hardware Setup**

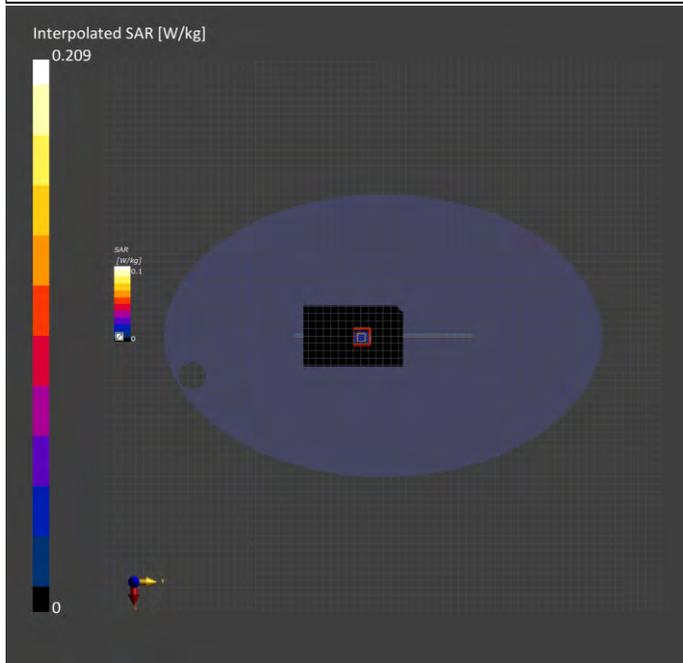
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.034	0.035
psSAR8g [W/kg]	0.011	0.012
psSAR10g [W/kg]	0.009	0.010
psPDab (4.0cm2, sq) [W/m2]		0.235
Power Drift [dB]	-0.09	-0.06
M2/M1 [%]		49.1
Dist 3dB Peak [mm]		3.4



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ID: 093

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

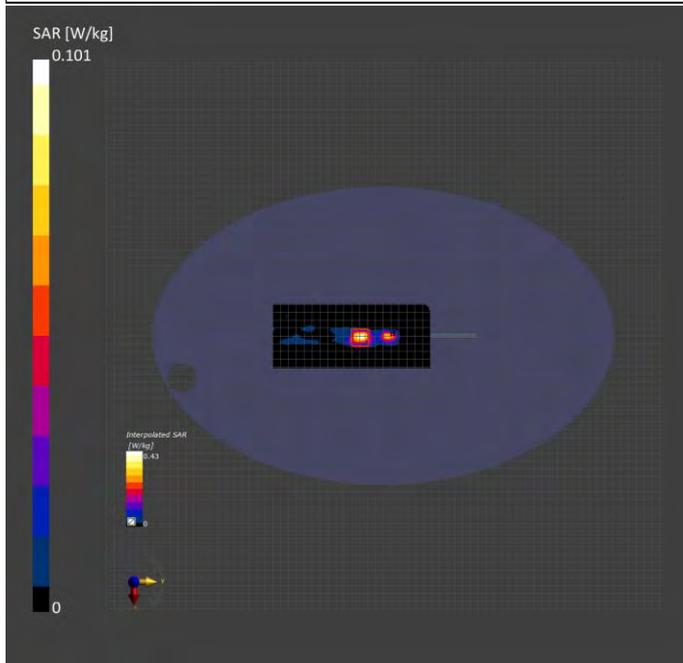
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.075	0.075
psSAR8g [W/kg]	0.024	0.022
psSAR10g [W/kg]	0.021	0.019
psPDab (4.0cm2, sq) [W/m2]		0.450
Power Drift [dB]	-0.05	-0.08
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		4.1



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ID: 094

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

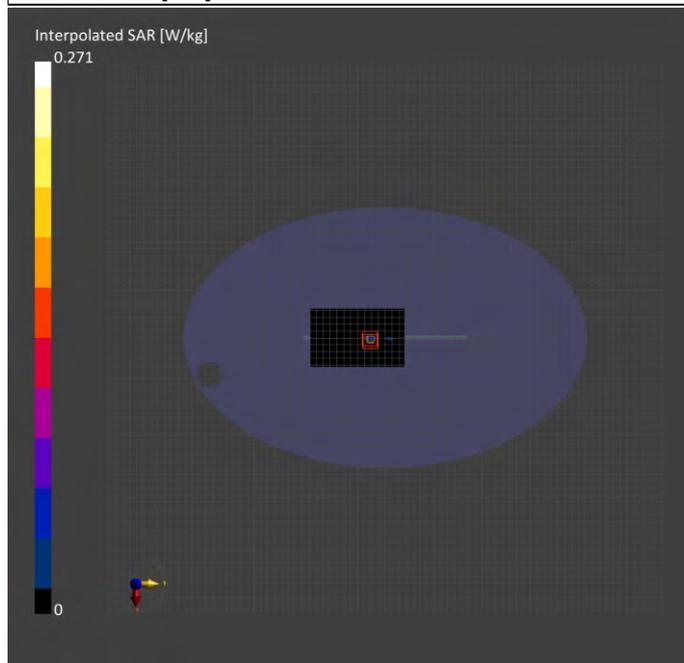
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.036	0.040
psSAR8g [W/kg]	0.008	0.012
psSAR10g [W/kg]	0.007	0.010
psPDab (4.0cm2, sq) [W/m2]		0.245
Power Drift [dB]	-0.08	-0.03
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		3.4



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ID: 095

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX1

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

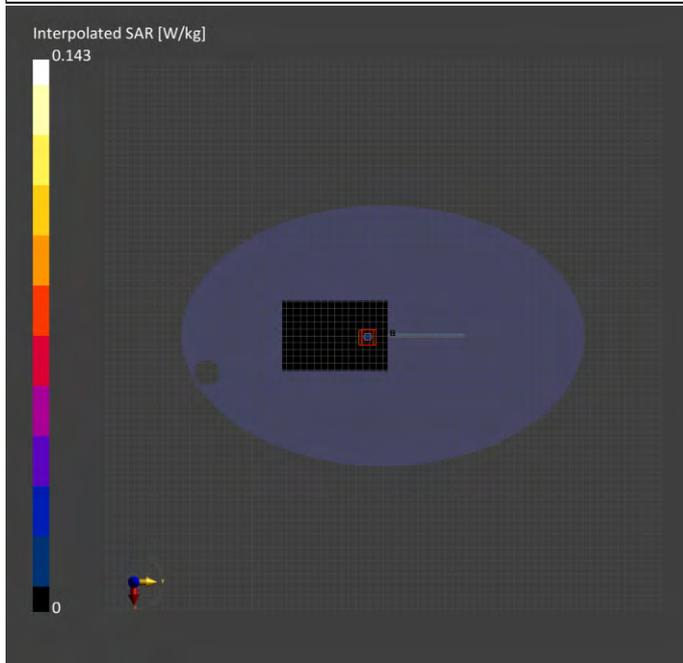
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 153.0	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	2022-11-15	2022-11-15
psSAR1g [W/kg]	0.012	0.020
psSAR8g [W/kg]	0.002	0.007
psSAR10g [W/kg]	0.002	0.005
psPDab (4.0cm2, sq) [W/m2]		0.130
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		> 11.0



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ID: 096

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	5.443	34.839

**Hardware Setup**

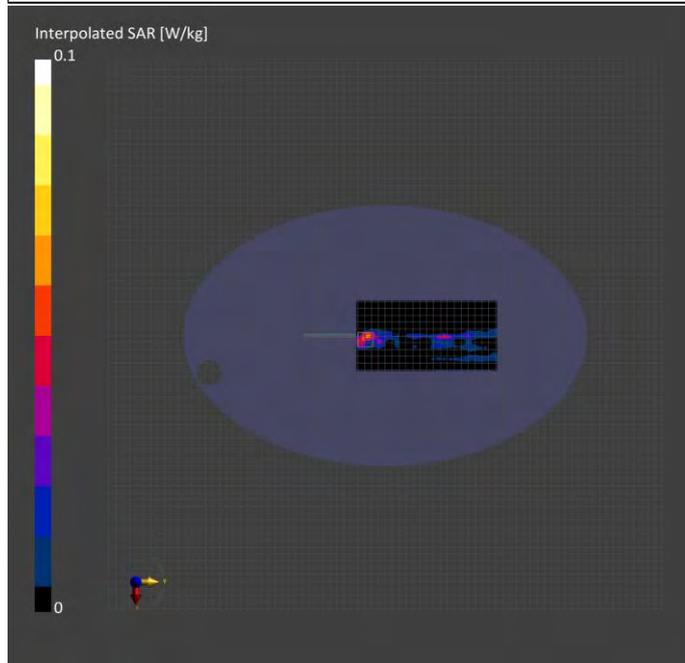
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 204.0	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	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.040	0.042
psSAR8g [W/kg]	0.015	0.015
psSAR10g [W/kg]	0.013	0.013
psPDab (4.0cm2, sq) [W/m2]		0.298
Power Drift [dB]	-0.05	-0.09
M2/M1 [%]		64.1
Dist 3dB Peak [mm]		4.1



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ID: 097

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	5.632	34.644

**Hardware Setup**

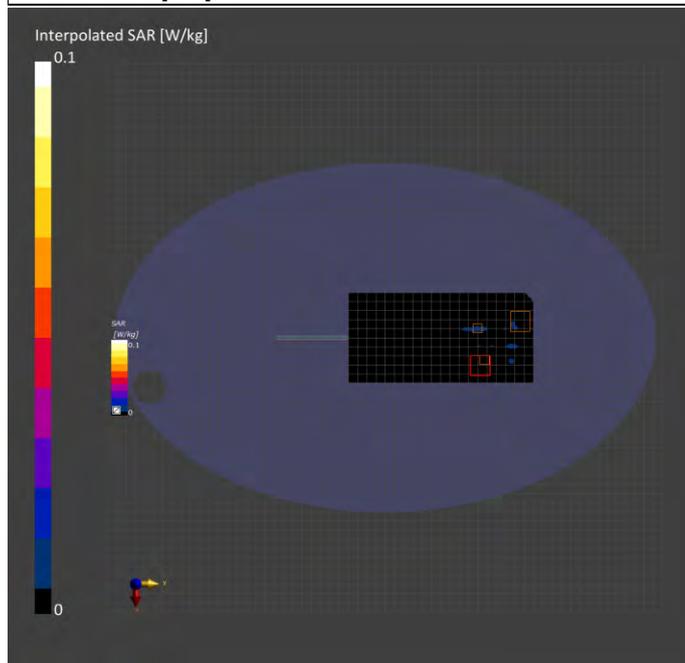
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	108.0 x 204.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.021	0.022
psSAR8g [W/kg]	0.005	0.006
psSAR10g [W/kg]	0.004	0.005
psPDab (4.0cm2, sq) [W/m2]		0.122
Power Drift [dB]	0.05	-0.11
M2/M1 [%]		45.9
Dist 3dB Peak [mm]		> 11.0



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ID: 098

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	6.002	34.263

**Hardware Setup**

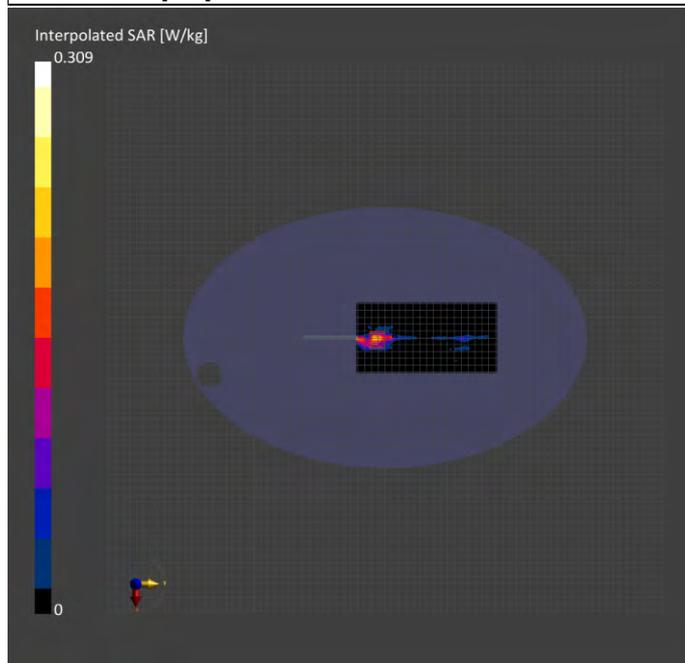
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 204.0	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	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.052	0.054
psSAR8g [W/kg]	0.018	0.021
psSAR10g [W/kg]	0.016	0.018
psPDab (4.0cm2, sq) [W/m2]		0.411
Power Drift [dB]	-0.03	-0.04
M2/M1 [%]		49.4
Dist 3dB Peak [mm]		4.1



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ID: 099

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.8	6.368	33.881

**Hardware Setup**

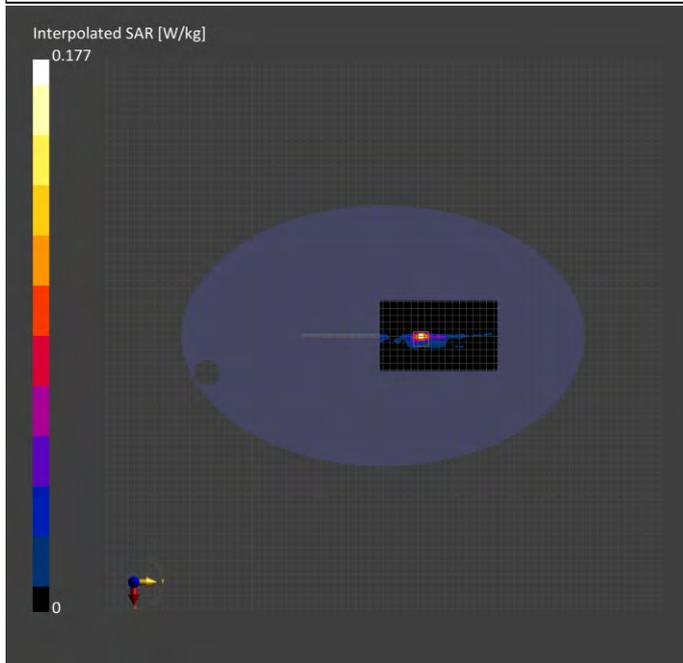
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.109	0.103
psSAR8g [W/kg]	0.032	0.034
psSAR10g [W/kg]	0.028	0.029
psPDab (4.0cm2, sq) [W/m2]		0.676
Power Drift [dB]	0.05	-0.09
M2/M1 [%]		47.5
Dist 3dB Peak [mm]		4.1



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ID: 100

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_0mm\_TX2

Ambient temperature: 22.3; Liquid temperature: 22.4

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5.7	6.642	33.721

**Hardware Setup**

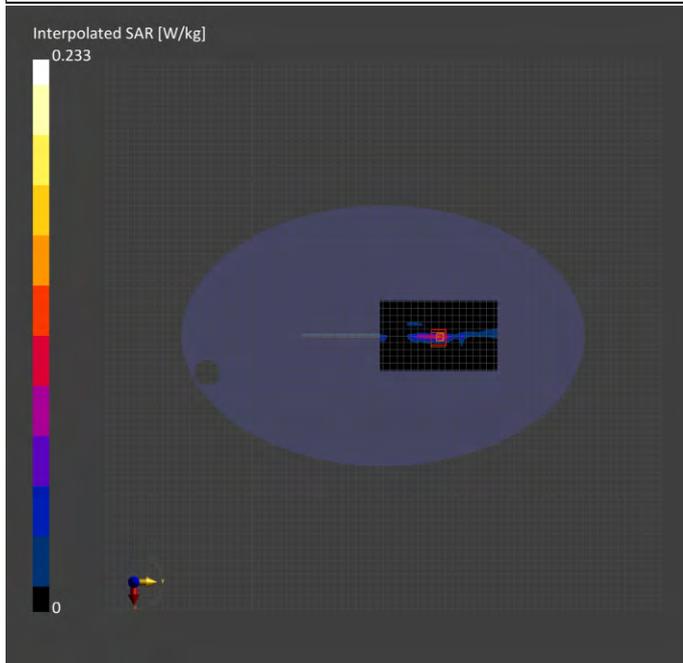
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 170.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	0.037	0.039
psSAR8g [W/kg]	0.011	0.014
psSAR10g [W/kg]	0.009	0.012
psPDab (4.0cm2, sq) [W/m2]		0.285
Power Drift [dB]	-0.13	-0.16
M2/M1 [%]		47.6
Dist 3dB Peak [mm]		4.1



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### 13 PD MEASUREMENT RESULTS

ID: 101

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_2mm\_TX1

#### Exposure Conditions

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

#### Hardware Setup

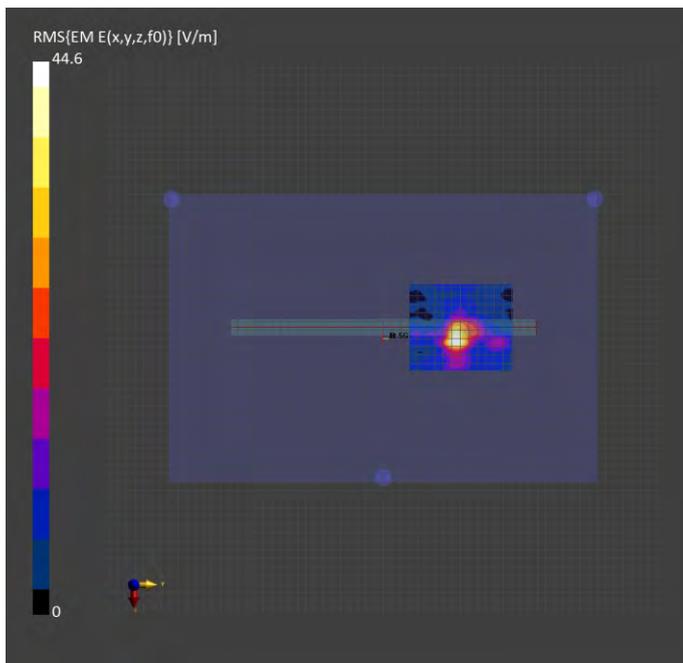
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

#### Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

#### Measurement Results

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.43
psPDtot+ [W/m <sup>2</sup> ]	1.73
psPDmod+ [W/m <sup>2</sup> ]	2.33
E <sub>max</sub> [V/m]	44.6
Power Drift [dB]	0.17



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ID: 102

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

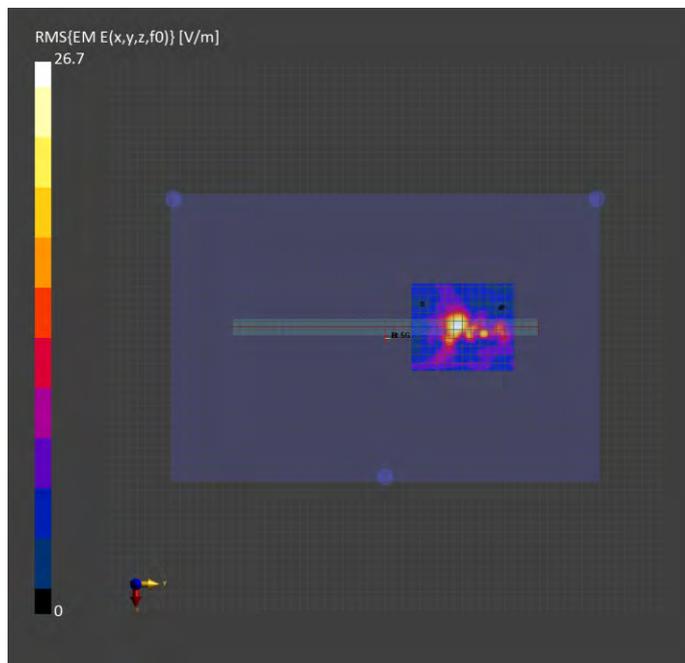
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.603
psPDtot+ [W/m <sup>2</sup> ]	0.711
psPDmod+ [W/m <sup>2</sup> ]	0.985
E <sub>max</sub> [V/m]	26.7
Power Drift [dB]	-0.11



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ID: 103

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

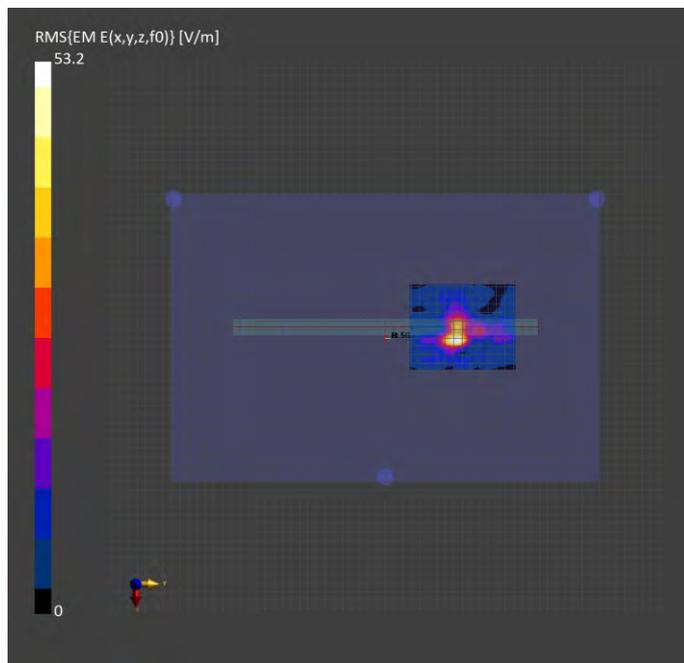
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.33
psPDtot+ [W/m <sup>2</sup> ]	2.48
psPDmod+ [W/m <sup>2</sup> ]	3.28
E <sub>max</sub> [V/m]	53.2
Power Drift [dB]	0.16



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ID: 104

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

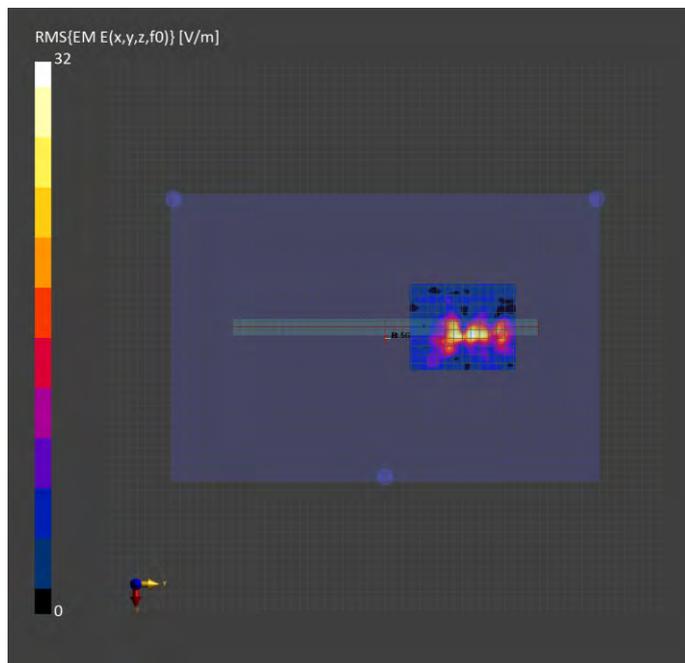
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.781
psPDtot+ [W/m <sup>2</sup> ]	1.00
psPDmod+ [W/m <sup>2</sup> ]	1.34
E <sub>max</sub> [V/m]	32.0
Power Drift [dB]	0.06



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ID: 105

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

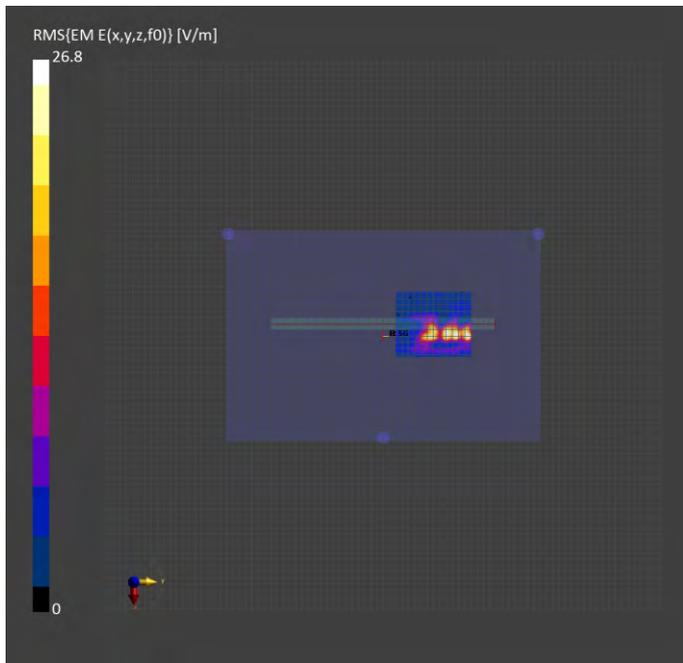
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.813
psPDtot+ [W/m <sup>2</sup> ]	0.834
psPDmod+ [W/m <sup>2</sup> ]	1.04
E <sub>max</sub> [V/m]	26.8
Power Drift [dB]	-0.13



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ID: 106

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

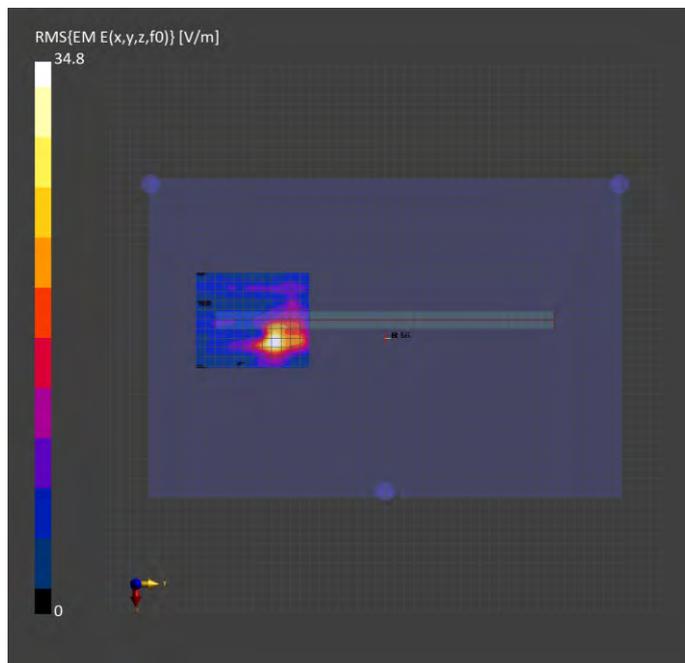
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.15
psPDtot+ [W/m <sup>2</sup> ]	1.27
psPDmod+ [W/m <sup>2</sup> ]	1.63
E <sub>max</sub> [V/m]	34.8
Power Drift [dB]	-0.04



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ID: 107

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

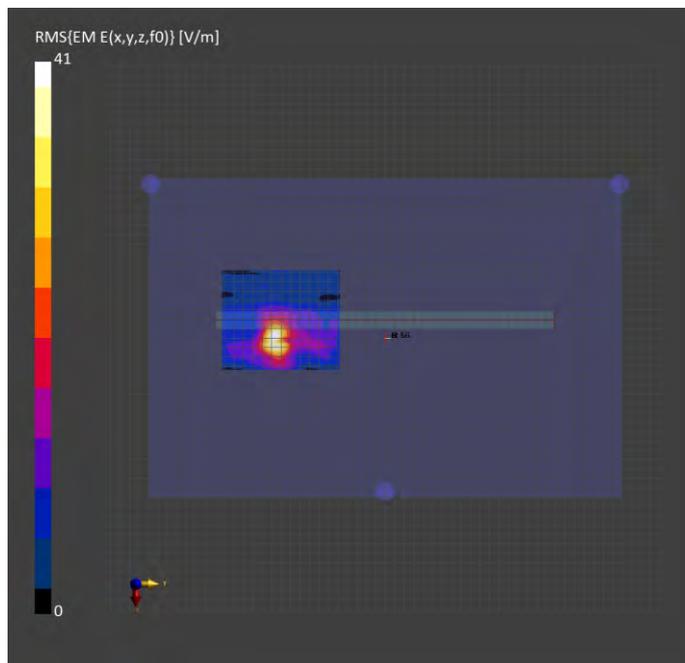
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.34
psPDtot+ [W/m <sup>2</sup> ]	1.76
psPDmod+ [W/m <sup>2</sup> ]	2.22
E <sub>max</sub> [V/m]	41.0
Power Drift [dB]	0.17



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ID: 108

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

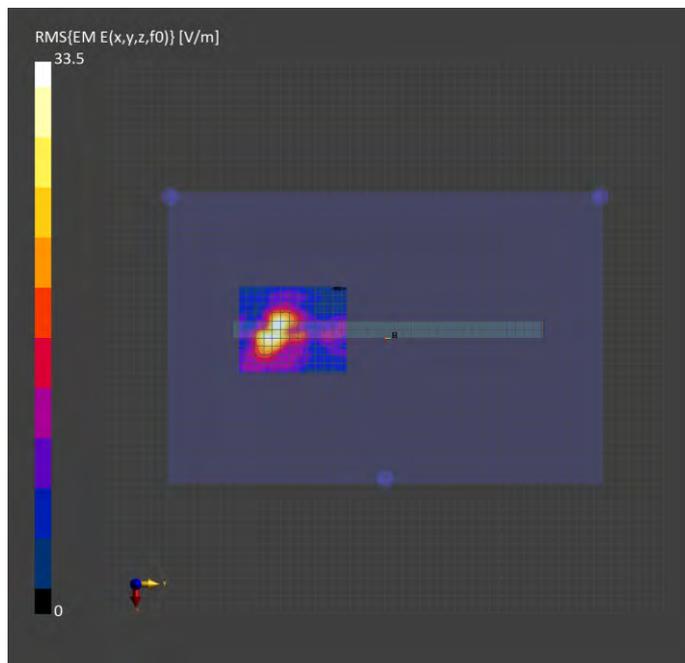
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.20
psPDtot+ [W/m <sup>2</sup> ]	1.36
psPDmod+ [W/m <sup>2</sup> ]	1.61
E <sub>max</sub> [V/m]	33.5
Power Drift [dB]	-0.15



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ID: 109

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

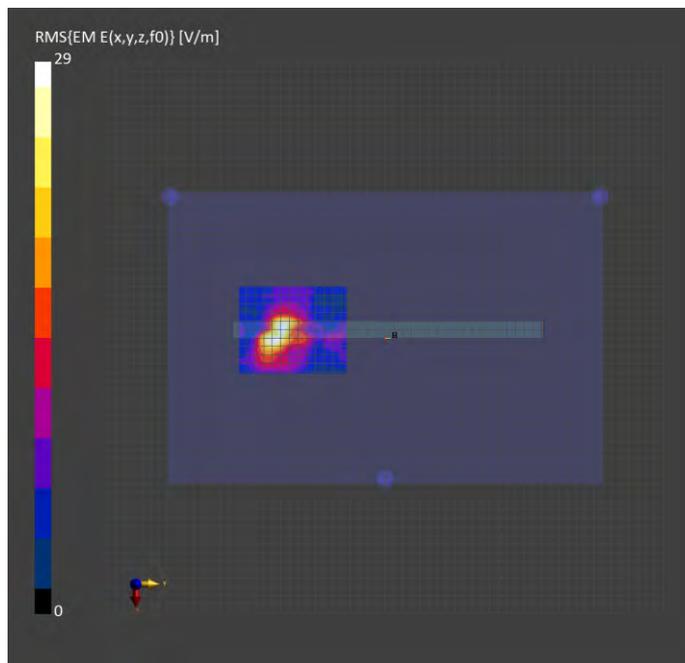
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.959
psPDtot+ [W/m <sup>2</sup> ]	1.08
psPDmod+ [W/m <sup>2</sup> ]	1.26
E <sub>max</sub> [V/m]	29.0
Power Drift [dB]	0.10



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ID: 110

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle), Channel 199 (6945.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

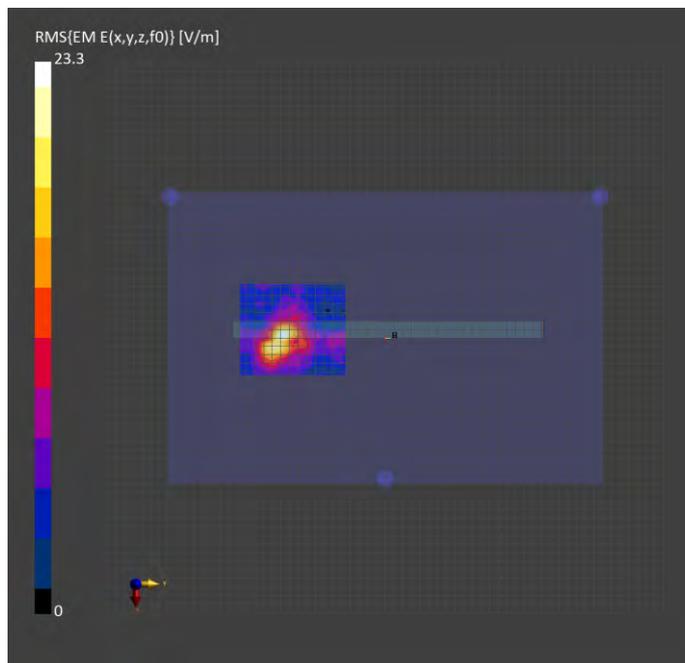
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-18
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.586
psPDtot+ [W/m <sup>2</sup> ]	0.682
psPDmod+ [W/m <sup>2</sup> ]	0.771
E <sub>max</sub> [V/m]	23.3
Power Drift [dB]	0.13



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ID: 111

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

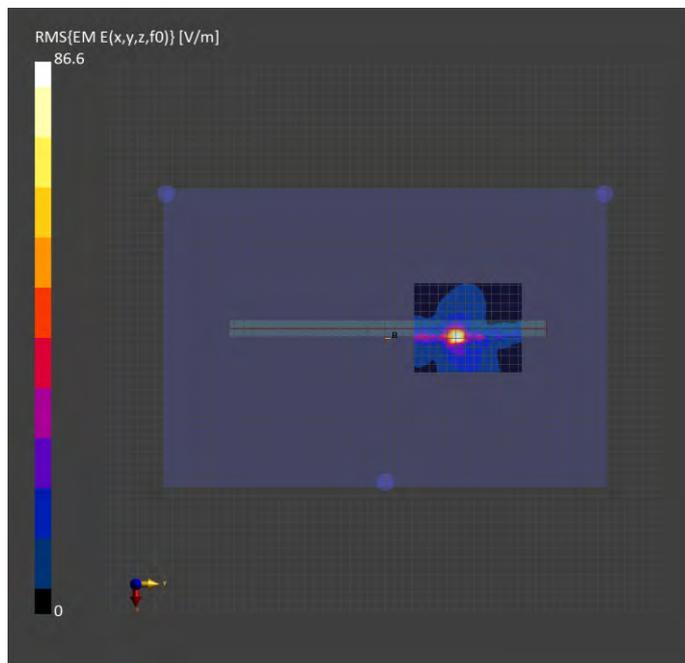
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.28
psPDtot+ [W/m <sup>2</sup> ]	5.07
psPDmod+ [W/m <sup>2</sup> ]	12.3
E <sub>max</sub> [V/m]	86.6
Power Drift [dB]	0.18



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ID: 112

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

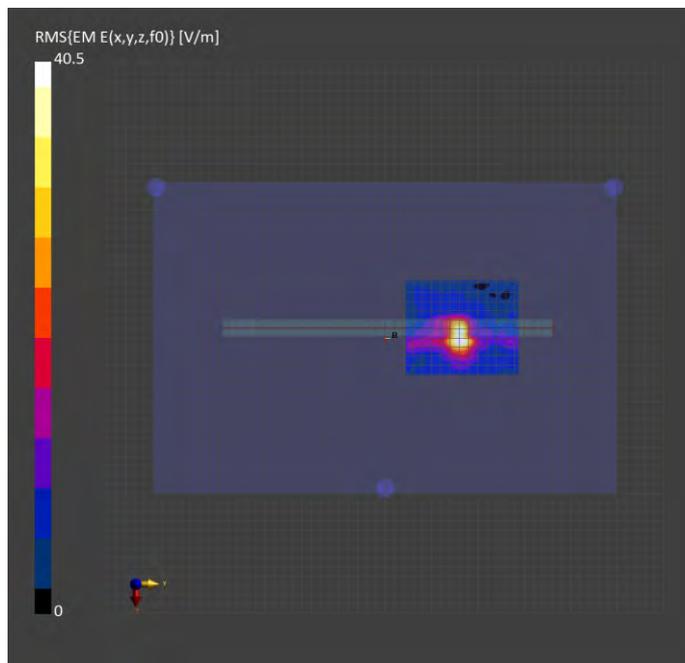
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.48
psPDtot+ [W/m <sup>2</sup> ]	1.83
psPDmod+ [W/m <sup>2</sup> ]	2.28
E <sub>max</sub> [V/m]	40.5
Power Drift [dB]	-0.13



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ID: 113

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

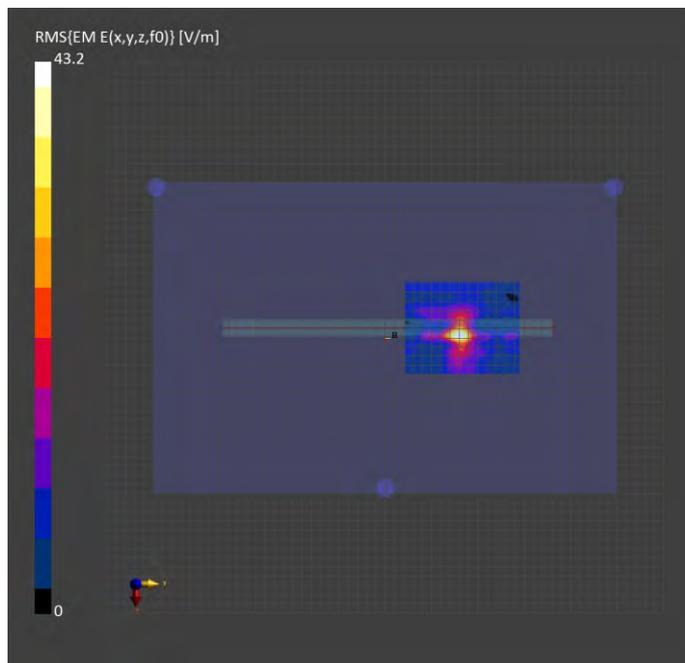
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.62
psPDtot+ [W/m <sup>2</sup> ]	1.67
psPDmod+ [W/m <sup>2</sup> ]	2.11
E <sub>max</sub> [V/m]	43.2
Power Drift [dB]	-0.13



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ID: 114

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

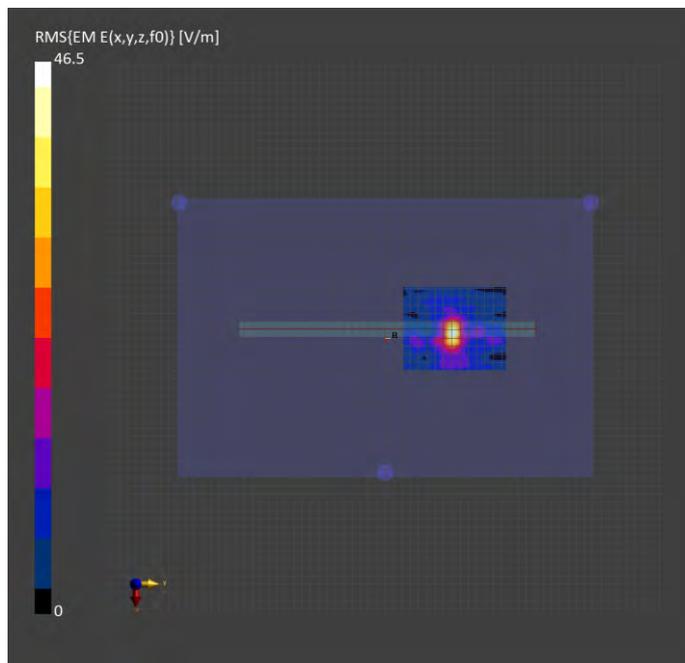
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.42
psPDtot+ [W/m <sup>2</sup> ]	1.92
psPDmod+ [W/m <sup>2</sup> ]	2.46
E <sub>max</sub> [V/m]	46.5
Power Drift [dB]	-0.06



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ID: 115

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_2mm\_TX1

**Exposure Conditions**

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

**Hardware Setup**

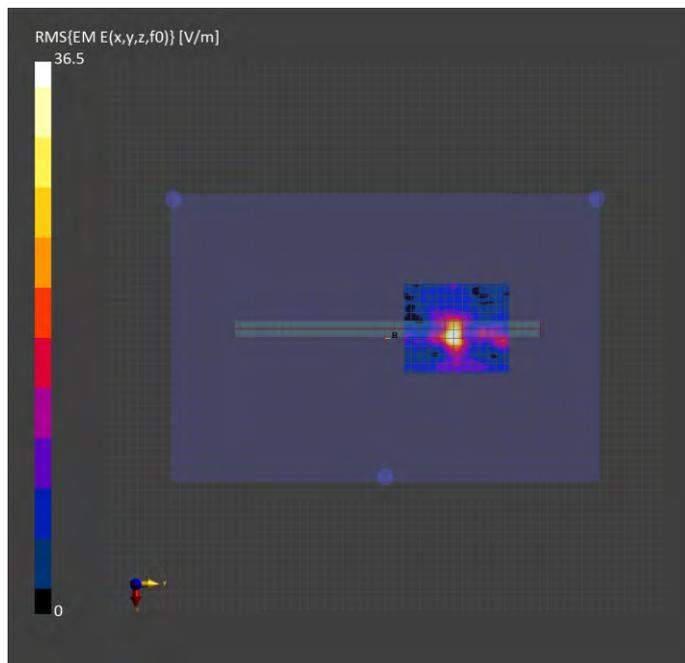
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.36
psPDtot+ [W/m <sup>2</sup> ]	1.59
psPDmod+ [W/m <sup>2</sup> ]	1.93
E <sub>max</sub> [V/m]	36.6
Power Drift [dB]	0.01



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ID: 116

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

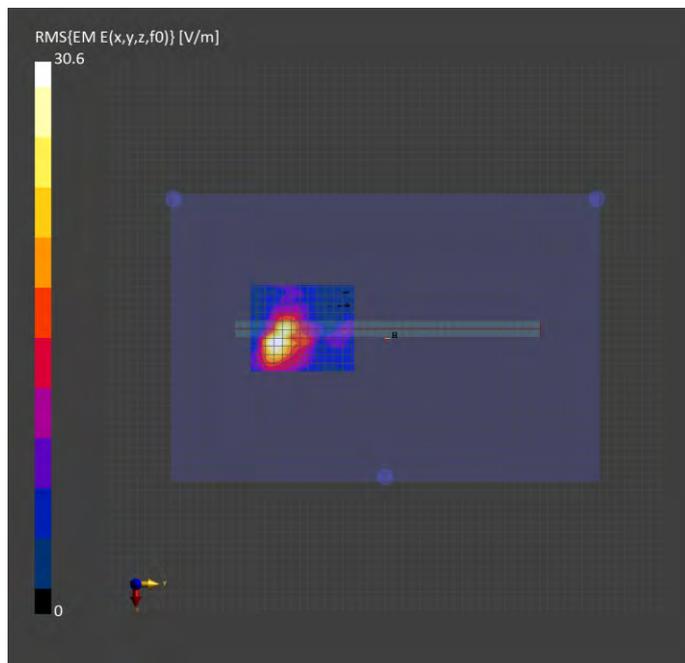
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.13
psPDtot+ [W/m <sup>2</sup> ]	1.29
psPDmod+ [W/m <sup>2</sup> ]	1.51
E <sub>max</sub> [V/m]	30.6
Power Drift [dB]	-0.02



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ID: 117

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

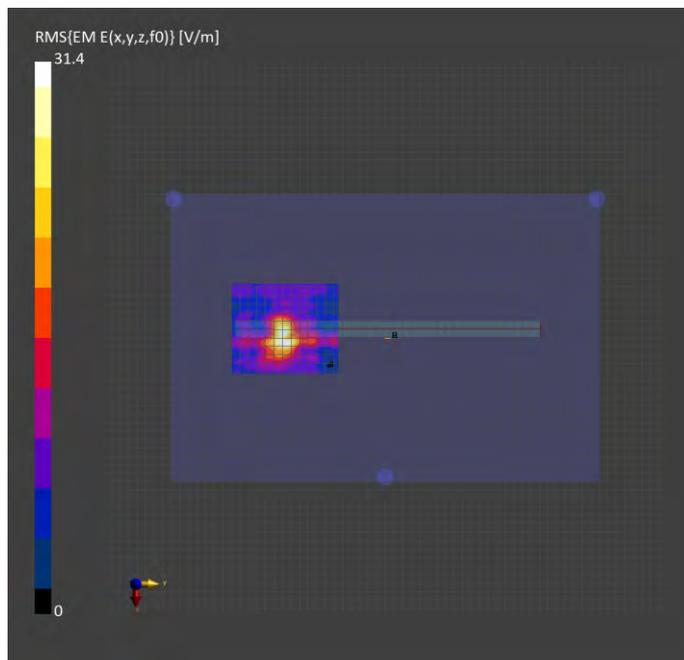
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.993
psPDtot+ [W/m <sup>2</sup> ]	1.12
psPDmod+ [W/m <sup>2</sup> ]	1.44
E <sub>max</sub> [V/m]	31.4
Power Drift [dB]	-0.16



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ID: 118

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

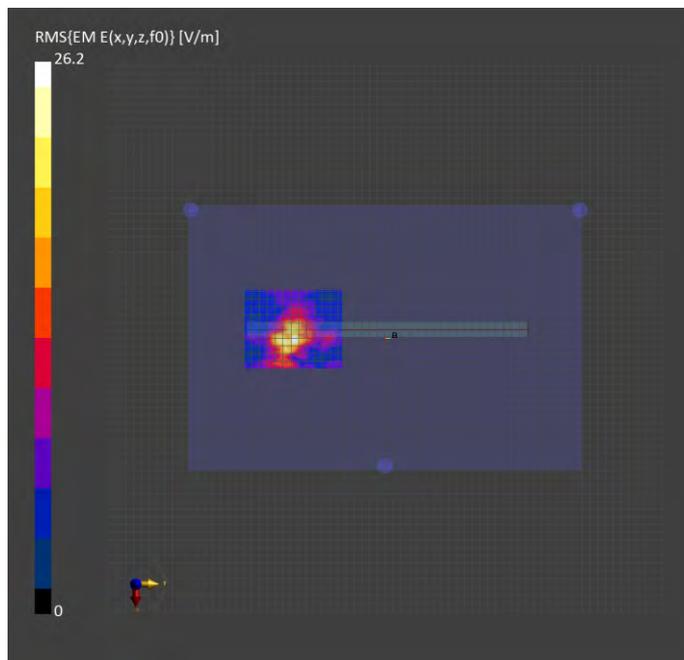
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.550
psPDtot+ [W/m <sup>2</sup> ]	0.780
psPDmod+ [W/m <sup>2</sup> ]	1.11
E <sub>max</sub> [V/m]	26.2
Power Drift [dB]	-0.02



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ID: 119

Report No. :TESA2210000423ES

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

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

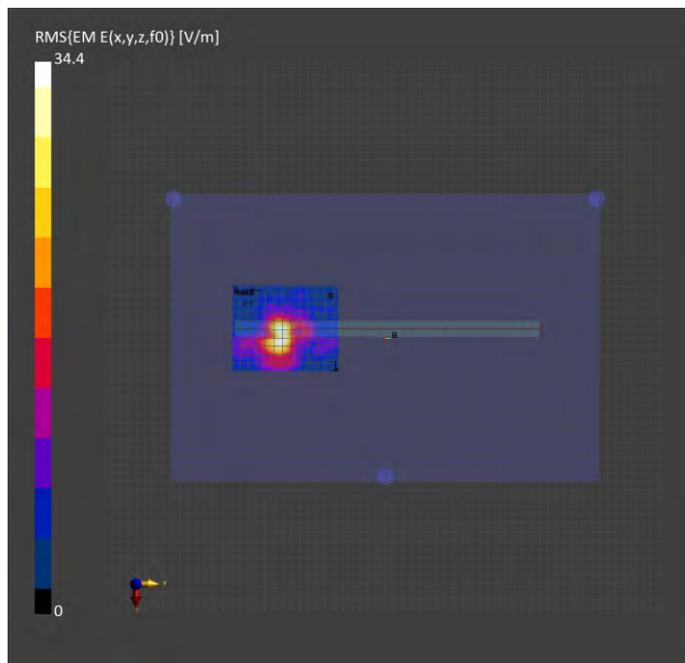
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17,
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	1.13
psPDtot+ [W/m <sup>2</sup> ]	1.26
psPDmod+ [W/m <sup>2</sup> ]	1.49
E <sub>max</sub> [V/m]	34.4
Power Drift [dB]	0.07



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ID: 120

Report No. :TESA2210000423ES

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

IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle), Channel 199 (6945.0 MHz)\_2mm\_TX2

**Exposure Conditions**

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

**Hardware Setup**

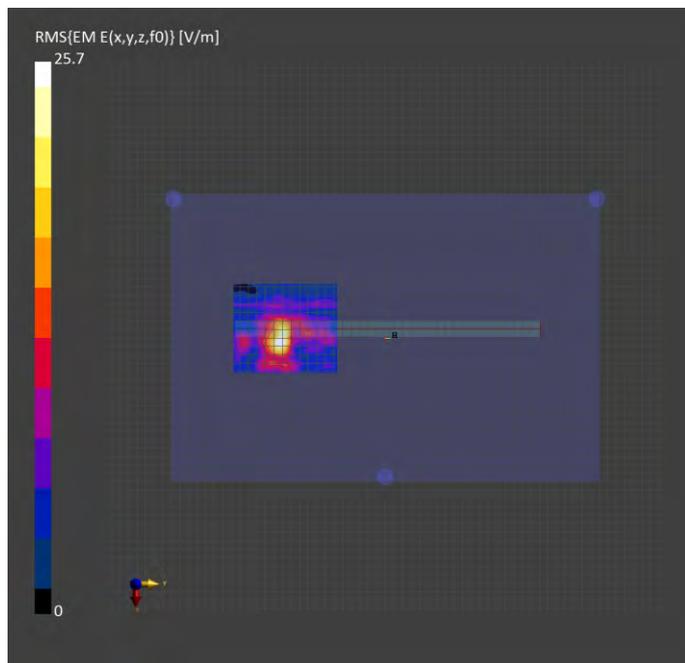
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

**Scans Setup**

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

**Measurement Results**

Scan Type	5G Scan
Date	2022-11-17,
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.714
psPDtot+ [W/m <sup>2</sup> ]	0.788
psPDmod+ [W/m <sup>2</sup> ]	0.917
E <sub>max</sub> [V/m]	25.7
Power Drift [dB]	-0.11



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## 14 SAR SYSTEM CHECK RESULTS

Date: 2022/11/10

Report No. :TESA2210000423ES

Dipole 2450 MHz\_SN:727

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.372$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- 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) = 20.8 W/kg

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

Reference Value = 95.10 V/m; Power Drift = 0.04 dB

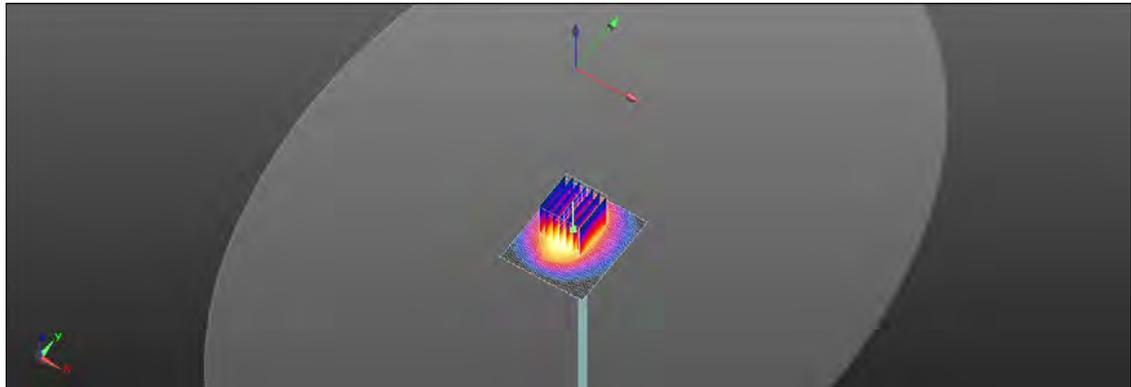
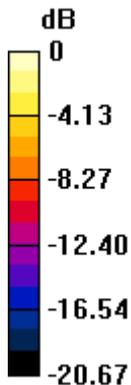
Peak SAR (extrapolated) = 26.1 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.35 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

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Member of SGS Group

Date: 2022/11/11

Report No. :TESA2210000423ES

Dipole 5250 MHz\_SN:1023

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

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.648 \text{ S/m}$ ;  $\epsilon_r = 35.731$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 46.05 V/m; Power Drift = 0.13 dB

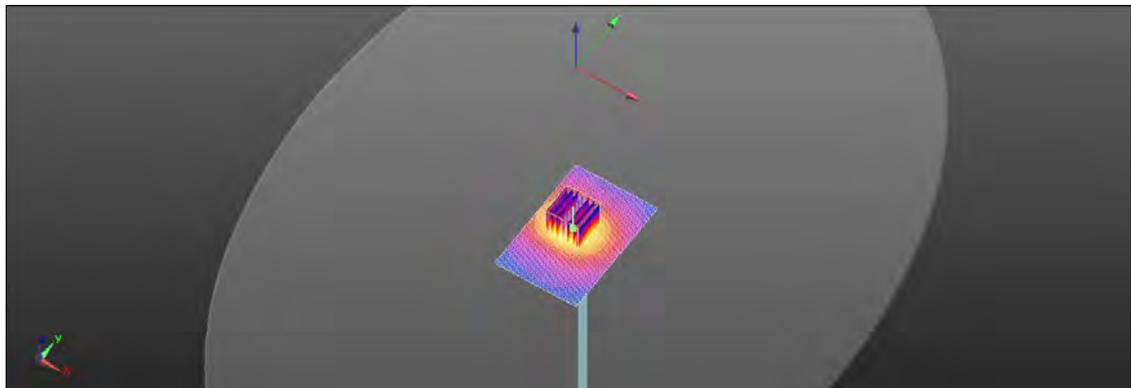
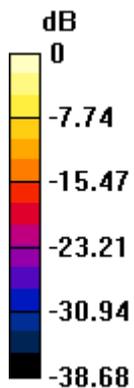
Peak SAR (extrapolated) = 30.6 W/kg

**SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.19 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 16.0 W/kg = 12.03 dBW/kg

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Date: 2022/11/12

**Report No. :TESA2210000423ES**

**Dipole 5250 MHz\_SN:1023**

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.649 \text{ S/m}$ ;  $\epsilon_r = 35.713$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x51x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 16.8 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 60.29 V/m; Power Drift = 0.06 dB

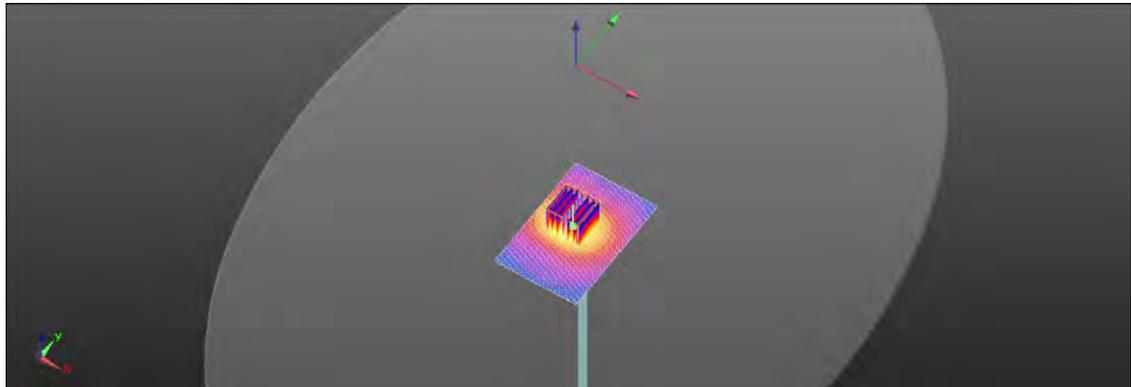
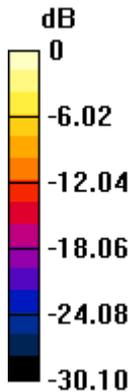
Peak SAR (extrapolated) = 32.5 W/kg

**SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.41 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg

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Date: 2022/11/13

Report No. :TESA2210000423ES

Dipole 5600 MHz\_SN:1023

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

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.015$  S/m;  $\epsilon_r = 35.362$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

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

Reference Value = 59.31 V/m; Power Drift = 0.03 dB

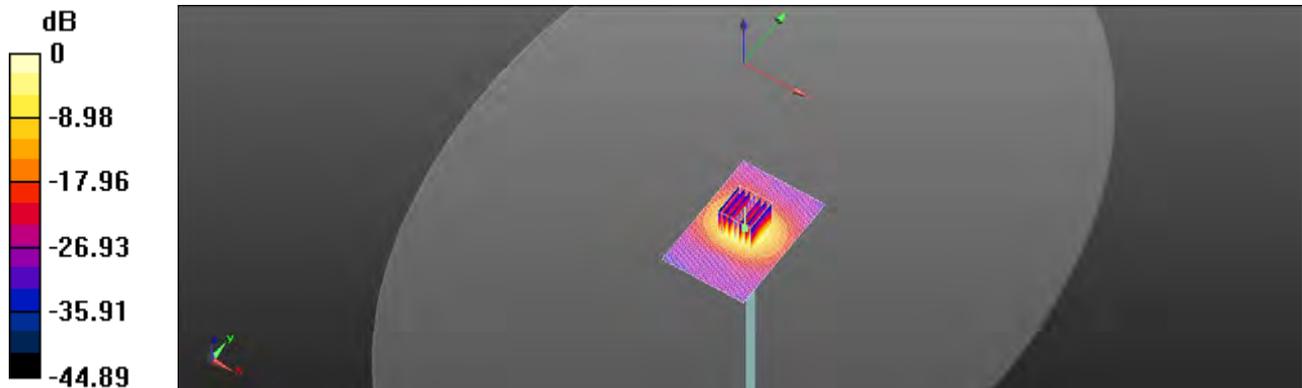
Peak SAR (extrapolated) = 36.9 W/kg

**SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.38 W/kg**

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

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

Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.57 dBW/kg

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Date: 2022/11/14

Report No. :TESA2210000423ES

Dipole 5750 MHz\_SN:1023

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

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.163 \text{ S/m}$ ;  $\epsilon_r = 35.112$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

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

Reference Value = 52.00 V/m; Power Drift = 0.06 dB

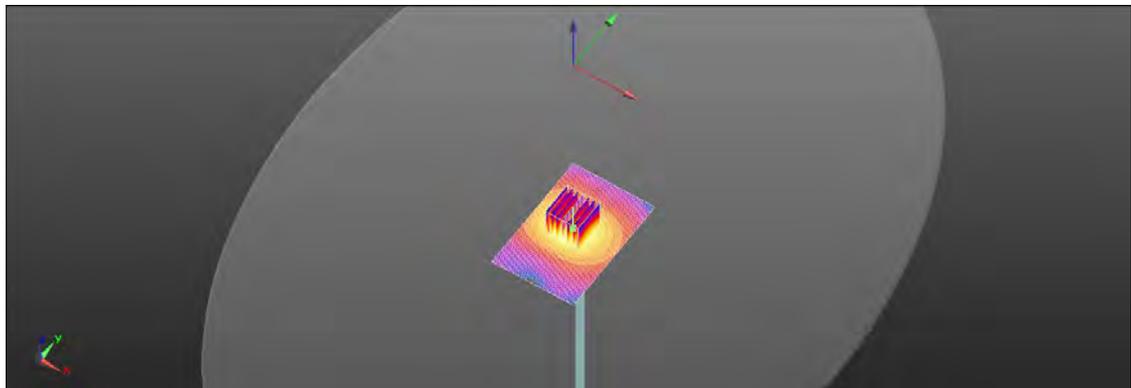
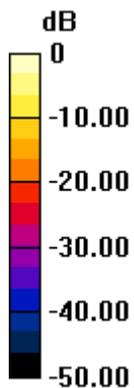
Peak SAR (extrapolated) = 34.4 W/kg

**SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.17 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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**Report No. :TESA2210000423ES**

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

**Ambient temperature: 22.3; Liquid temperature: 22.4**

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	5.8	5.997	34.281

**Hardware Setup**

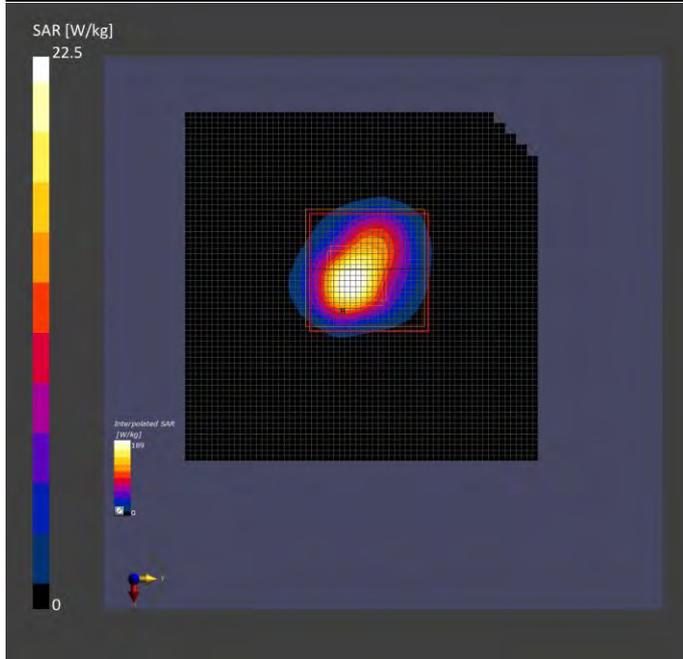
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 68.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	6.0 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-15	2022-11-15
psSAR1g [W/kg]	24.8	28.3
psSAR8g [W/kg]	6.18	6.33
psSAR10g [W/kg]	5.10	5.19
psPDab (4.0cm2, sq) [W/m2]		130
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		4.8



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**Report No. :TESA2210000423ES**

**Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz)\_SN:1007**

**Ambient temperature: 22.3; Liquid temperature: 22.4**

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	5.7	6.718	33.653

**Hardware Setup**

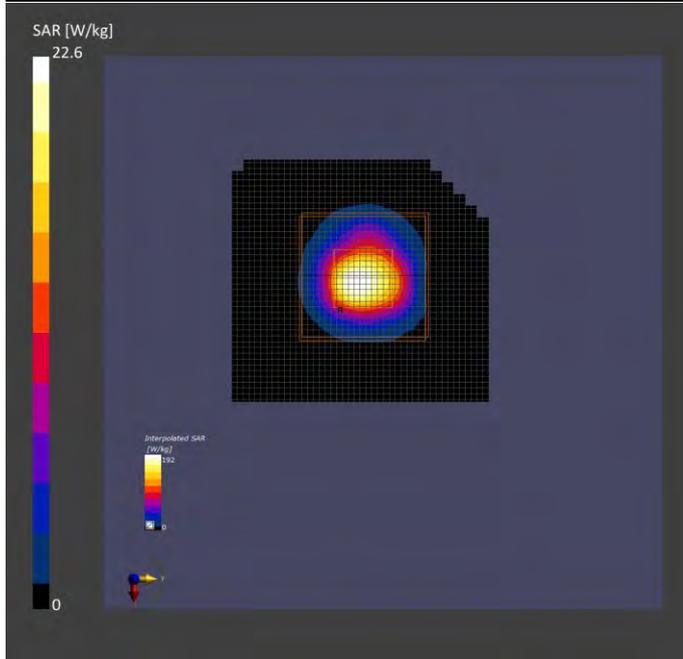
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1665, 2022-02-28

**Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.0 x 3.0 x 1.2
Sensor Surface [mm]	3.0	1.4

**Measurement Results**

	Area Scan	Zoom Scan
Date	2022-11-16	2022-11-16
psSAR1g [W/kg]	25.5	27.1
psSAR8g [W/kg]	5.74	5.84
psSAR10g [W/kg]	4.75	4.78
psPDab (4.0cm2, sq) [W/m2]		113
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		4.6



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## 15 PD SYSTEM CHECK RESULTS

Report No. : TESA2210000423ES

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

### Exposure Conditions

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

### Hardware Setup

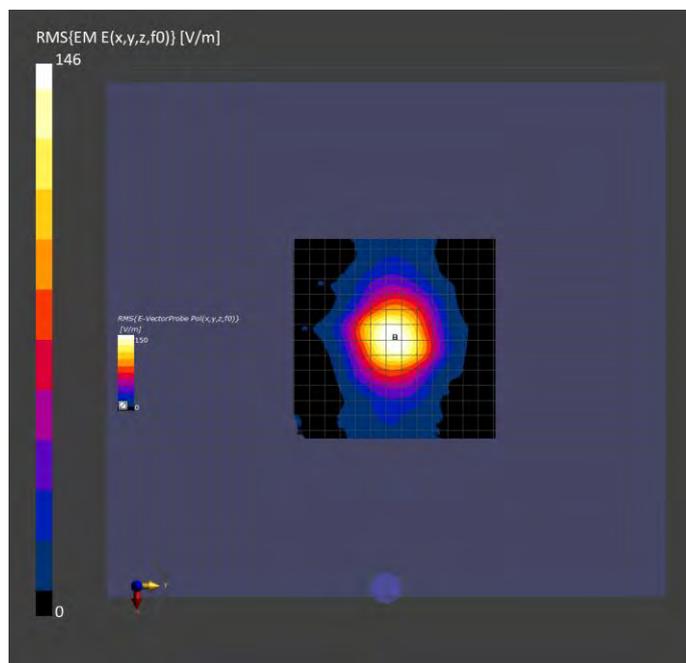
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

### Scans Setup

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

### Measurement Results

Scan Type	5G Scan
Date	2022-11-17
Avg. Area [cm <sup>2</sup> ]	1.00
psPDn+ [W/m <sup>2</sup> ]	52.4
psPDtot+ [W/m <sup>2</sup> ]	52.5
psPDmod+ [W/m <sup>2</sup> ]	52.7
E <sub>max</sub> [V/m]	143
Power Drift [dB]	-0.02



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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**
- 16.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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