

RF Exposure report



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

Product Name Notebook Computer
Brand Name acer
Model No. N20Q10
Applicant Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID HLZAX211D2
Date of EUT Receipt Nov. 07, 2022
Date of Test(s) Nov. 20, 2022 ~ Nov. 26, 2022
Date of Issue Feb. 01, 2023

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Tom Chiang	Approved By / John Yeh

Date: Feb. 01, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2211000463E5	00	Initial creation of document	Dec. 16, 2022	Cindy Chou	*
TESA2211000463E5	01	Modify Co-SAR	Feb. 01, 2023	Cindy Chou	

Note:

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

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

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	Notebook Computer	
Brand Name	<i>acer</i>	
Model No.	N20Q10	
FCC ID	HLZAX211D2	
Integrated WLAN Module	Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211D2W	
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40 /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	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)

1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m ²)	Highest PD (W/m ²)
Bluetooth(GFSK)	0.2	N/A	N/A
2.4G WLAN	1.03	N/A	N/A
5G WLAN	1.18	N/A	N/A
6G WLAN	0.79	5.56	N/A

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2 MEASUREMENT SYSTEM

2.1 Test Facility

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

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

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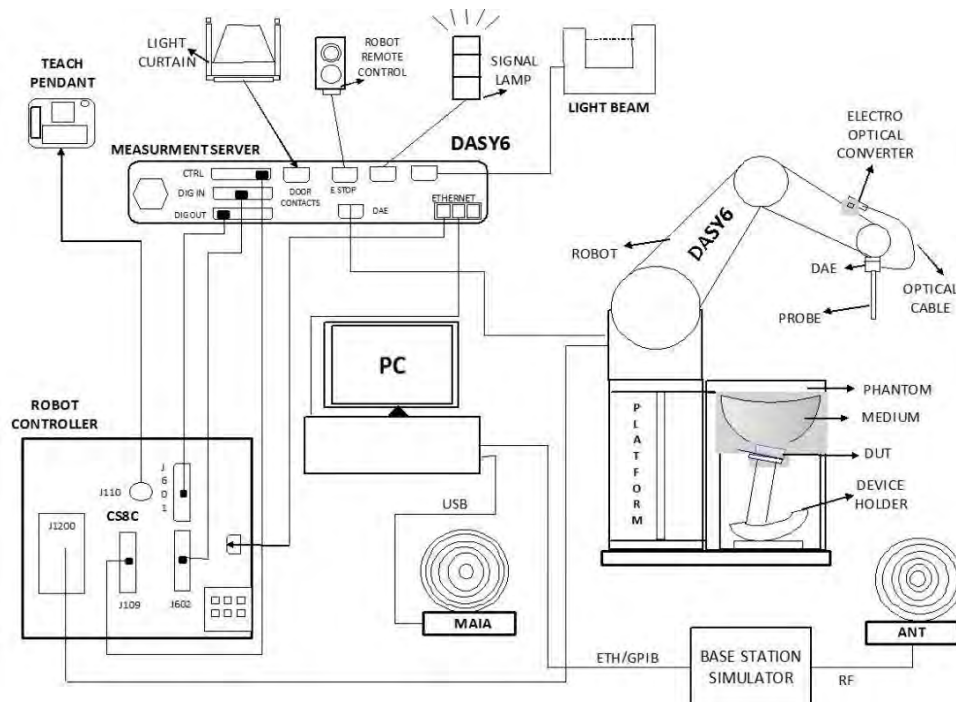
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2.2 SAR System

Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)		
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 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.	
		Device Holder

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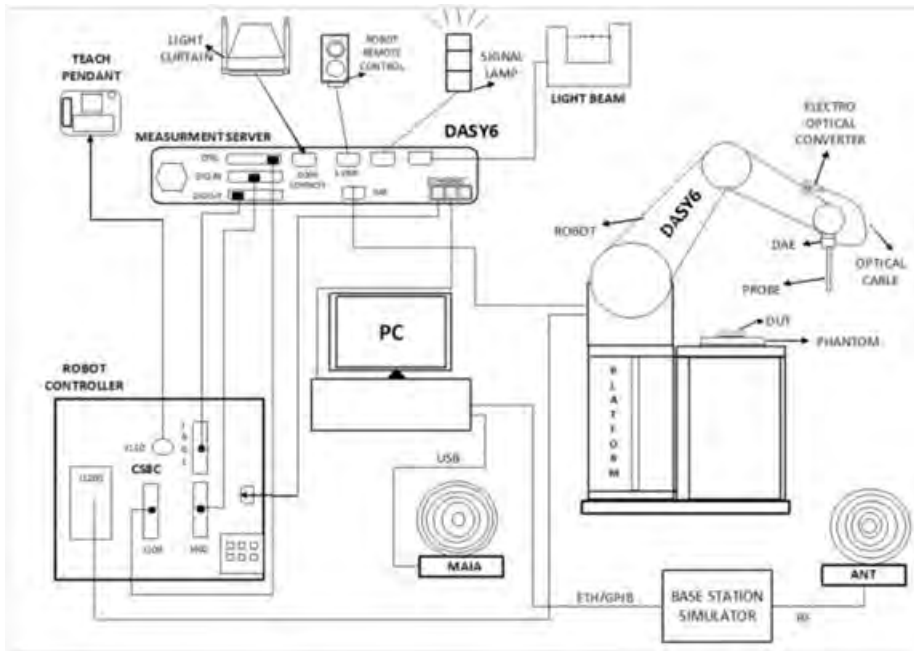
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2.3 PD system

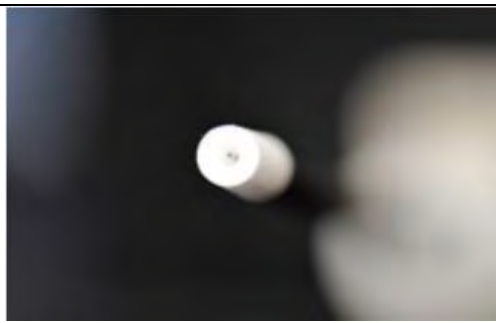
Block Diagram (DASY6)

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



EUmmWVx probe

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

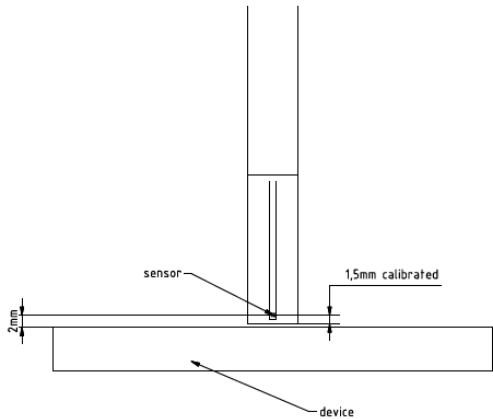


Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe 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 ($\tan \delta$) ≤ 0.05 and a relative permittivity (ϵ_r) ≤ 1.2 . High-performance RF absorbers are placed below the foam.

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear 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

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Nov, 24. 2022	2412	39.268	1.766	40.593	1.821	3.37%	3.10%
		2437	39.223	1.788	40.548	1.858	3.38%	3.89%
		2450	39.200	1.800	40.525	1.863	3.38%	3.50%
		2462	39.185	1.813	40.510	1.880	3.38%	3.69%
		2480	39.162	1.827	40.487	1.894	3.38%	3.69%
	Nov, 25. 2022	5210	35.974	4.665	37.299	4.862	3.68%	4.22%
		5230	35.951	4.686	37.276	4.883	3.69%	4.21%
		5250	35.929	4.706	37.254	4.904	3.69%	4.21%
		5270	35.906	4.727	37.231	4.926	3.69%	4.21%
		5290	35.883	4.747	37.208	4.947	3.69%	4.21%
		5310	35.860	4.768	37.160	4.945	3.63%	3.71%
	Nov, 26. 2022	5530	35.609	4.993	36.934	5.203	3.72%	4.21%
		5570	35.563	5.034	36.888	5.246	3.73%	4.20%
		5600	35.529	5.065	36.854	5.277	3.73%	4.19%
		5690	35.426	5.157	36.751	5.373	3.74%	4.18%
		5750	35.306	5.265	36.682	5.436	3.90%	3.26%
		5755	35.351	5.224	36.676	5.442	3.75%	4.17%
		5775	35.329	5.244	36.654	5.463	3.75%	4.17%
		5795	35.306	5.265	36.631	5.484	3.75%	4.17%
	Nov, 21. 2022	6025	35.070	5.510	36.366	5.730	3.70%	4.01%
		6185	34.878	5.698	36.174	5.903	3.72%	3.59%
		6345	34.686	5.887	35.982	6.076	3.74%	3.21%
		6500	34.500	6.070	35.796	6.245	3.76%	2.89%
		6505	34.494	6.076	35.790	6.251	3.76%	2.88%
		6665	34.302	6.261	35.598	6.426	3.78%	2.63%
		6825	34.110	6.447	35.406	6.603	3.80%	2.42%
		6985	33.918	6.633	35.214	6.781	3.82%	2.23%
		7000	33.900	6.650	35.196	6.797	3.82%	2.21%

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3.4 The composition of the tissue simulating liquid:

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

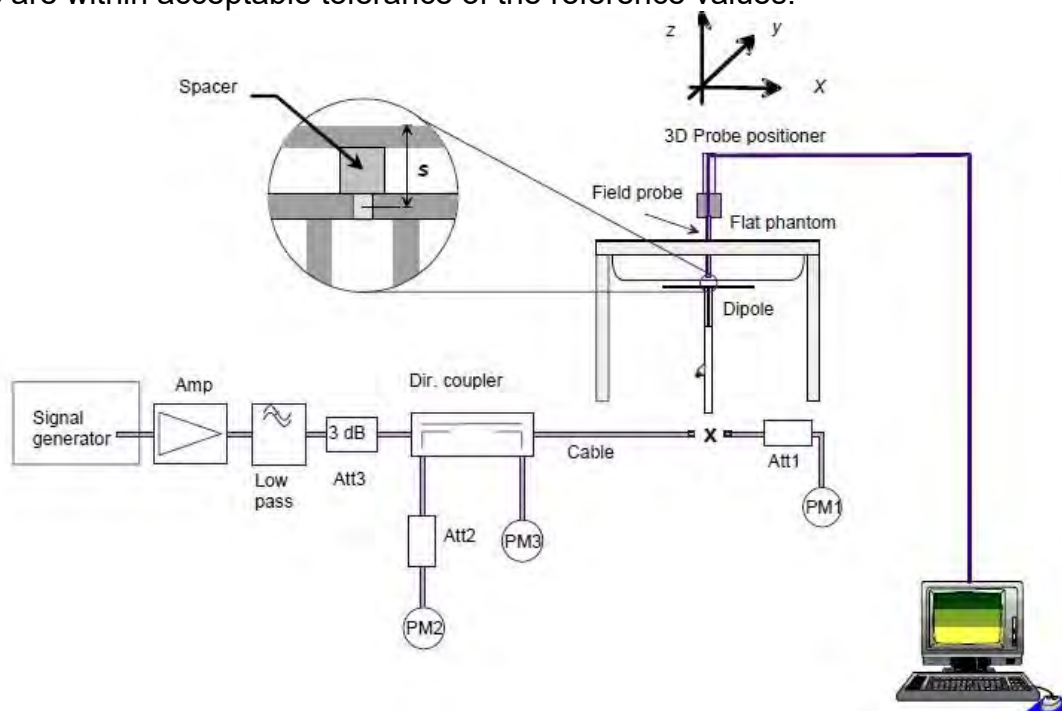
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	12.8	51.2	-3.03	± 10%	Nov.24,2022
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	8.11	81.1	0.12	± 10%	Nov.25,2022
D5GHzV2	1023	5600	84.4	7.97	79.7	-5.57	± 10%	Nov.26,2022
D5GHzV2	1023	5750	81	8.16	81.6	0.74	± 10%	Nov.26,2022
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	28.2	282	-3.42	± 10%	Nov.21,2022
D7GHzV2	1007	7000	278	27	270	-2.88	± 10%	Nov.21,2022
Validation Kit	S/N	Frequency (MHz)	1W Target APD (W/m ²) (4cm ²)	pin=100mW Measured APD (W/m ²) (4cm ²)	Normalized to 1W APD (W/m ²) (4cm ²)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	1320	129	1290	-2.27	± 10%	Nov.21,2022
D7GHzV2	1007	7000	1210	119	1190	-1.65	± 10%	Nov.21,2022

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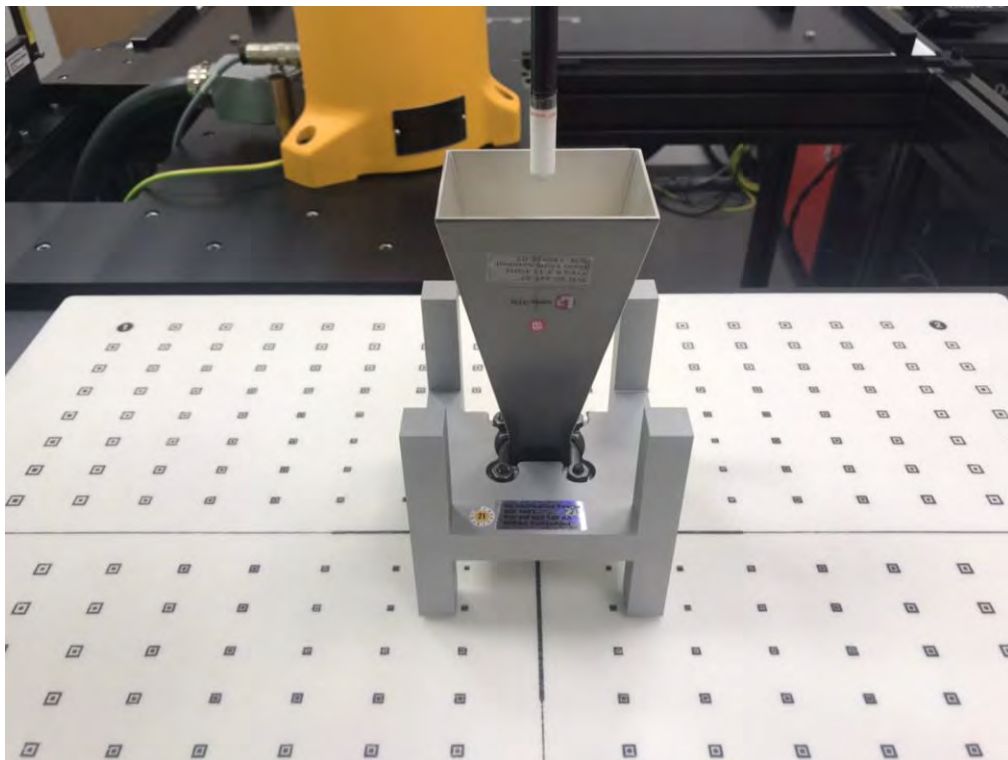
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4 PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9616	1751	10	86.1	47.9	51.7	-0.33	Nov.21,2022

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

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

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8 \text{ W/kg}$, when the transmission band is $\leq 100 \text{ MHz}$.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8 \text{ W/kg}$, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45 \text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
- **WLAN 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 $\leq 0.8 \text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$.
- **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 $> 0.8 \text{ W/kg}$, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is $\leq 1.2 \text{ W/kg}$ or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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

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

- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.

- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ with the grid step (0.0625λ) for determining compliance at $d=2\text{mm}$.

- **WLAN 6GHz:** According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.

- **WLAN 6GHz:** Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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5.3 Test position

Laptop mode SAR test position (0mm)

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

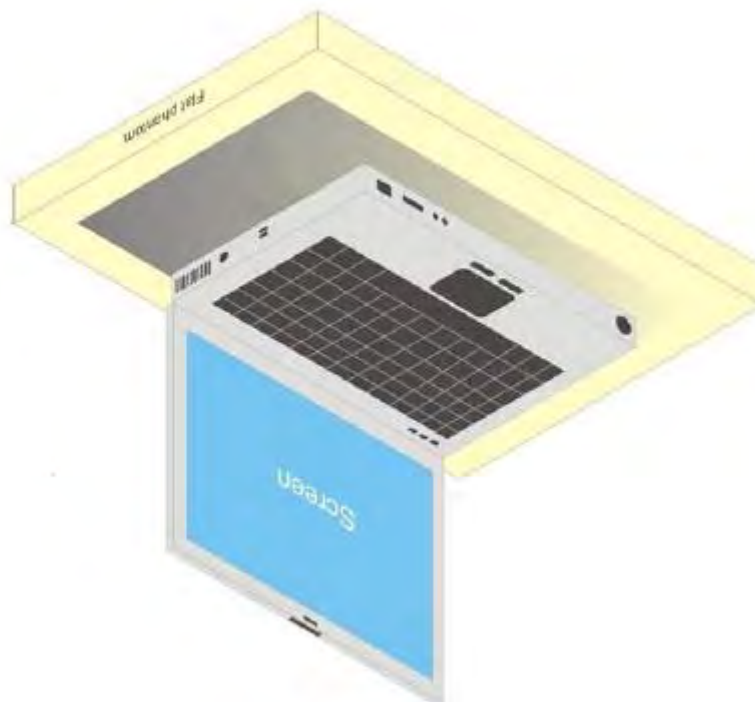


Illustration for Laptop Setup

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Tablet mode SAR test position (0mm)

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

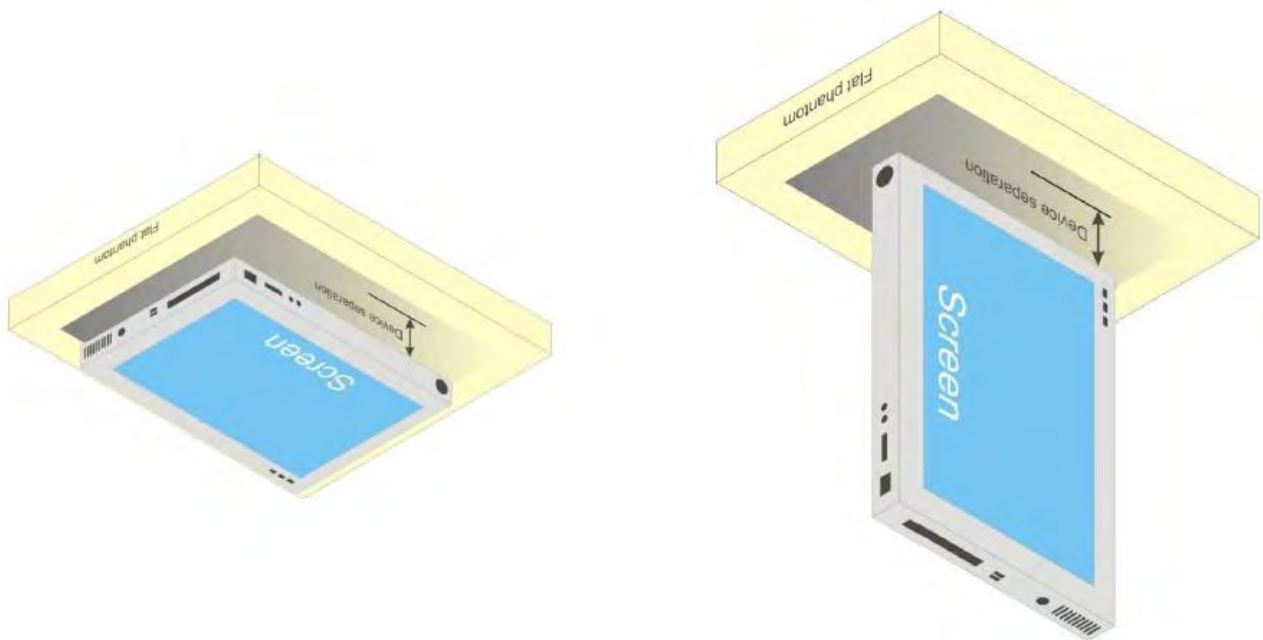


Illustration for Tablet Setup

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5.4 Power verification of device mode

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

Device Mode	Lid Open Angle description Lid Close → Laptop → Tablet	Lid Open Angle description Tablet → Laptop → Lid Close	Mode Reported to OS
Lid Close	$0^{\circ} \leq \text{Lid angle} < 30^{\circ}$ (GMR Sensor Trigger)	$0^{\circ} \leq \text{Lid angle} < 30^{\circ}$ (GMR Sensor Trigger)	Standby
Laptop	$30^{\circ} \leq \text{Lid angle} < 200^{\circ}$ (G-Sensor Trigger)	$30^{\circ} \leq \text{Lid angle} < 200^{\circ}$ (G-Sensor Trigger)	Notebook
Tablet	$200^{\circ} \leq \text{Lid angle} \leq 360^{\circ}$ (G-Sensor Trigger)	$200^{\circ} \leq \text{Lid angle} \leq 360^{\circ}$ (G-Sensor Trigger)	Non-notebook

Results and conclusion

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

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Device mode verification by power measurement

Antenna	Operation mode	Lid angle	802.11b	WLAN 802.11n(40M) 5.2G	WLAN 802.11ac(80M) 5.2G	WLAN 802.11ac(160M) 5.2G	WLAN 802.11n(40M) 5.3G	WLAN 802.11ac(80M) 5.3G	WLAN 802.11ac(160M) 5.6G	WLAN 802.11ac(80M) 5.8G		
Main	Lid close	0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		30°	20.99	20.98	18.41	14.42	20.99	17.36	20.96	15.31	20.99	
		25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Lid close	26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			30°	20.85	20.88	18.32	14.23	20.88	17.19	20.94	15.28	20.87
	31°		20.92	20.80	18.36	14.32	20.78	17.26	20.81	15.13	20.87	
	32°		20.79	20.93	18.32	14.31	20.84	17.17	20.86	15.21	20.84	
	33°		20.88	20.90	18.23	14.27	20.86	17.16	20.75	15.20	20.89	
	34°		20.81	20.80	18.20	14.23	20.79	17.20	20.80	15.21	20.93	
	35°		20.89	20.90	18.22	14.40	20.92	17.33	20.85	15.15	20.88	
	Laptop	45°	20.97	20.90	18.37	14.33	20.87	17.24	20.83	15.26	20.92	
		55°	20.89	20.79	18.26	14.31	20.94	17.33	20.87	15.18	20.81	
		65°	20.77	20.93	18.35	14.25	20.81	17.31	20.87	15.18	20.84	
		75°	20.87	20.84	18.22	14.33	20.79	17.18	20.86	15.15	20.95	
		85°	20.91	20.84	18.22	14.29	20.84	17.27	20.82	15.10	20.92	
		95°	20.86	20.91	18.30	14.24	20.94	17.24	20.92	15.23	20.84	
		105°	20.85	20.91	18.20	14.32	20.80	17.32	20.78	15.13	20.89	
		115°	20.84	20.76	18.24	14.24	20.83	17.19	20.82	15.25	20.80	
		125°	20.81	20.84	18.22	14.27	20.90	17.14	20.80	15.16	20.83	
		135°	20.91	20.87	18.34	14.24	20.78	17.27	20.76	15.21	20.78	
	Tablet	145°	20.78	20.85	18.33	14.37	20.96	17.19	20.83	15.23	20.97	
		155°	20.91	20.79	18.22	14.36	20.80	17.30	20.83	15.10	20.86	
		165°	20.79	20.83	18.35	14.33	20.77	17.21	20.75	15.18	20.79	
		175°	20.90	20.87	18.32	14.27	20.90	17.15	20.80	15.14	20.91	
		185°	20.80	20.93	18.34	14.22	20.96	17.15	20.76	15.24	20.97	
		195°	20.88	20.85	18.24	14.35	20.86	17.16	20.93	15.22	20.80	
		205°	16.49	12.10	12.47	12.49	13.48	13.49	14.47	14.49	14.99	
		195°	20.83	20.87	18.28	14.39	20.93	17.19	20.85	15.14	20.88	
		Laptop	196°	20.89	20.79	18.35	14.31	20.81	17.33	20.85	15.24	20.91
			197°	20.84	20.84	18.23	14.33	20.89	17.16	20.84	15.17	20.79
	198°		20.94	20.78	18.38	14.22	20.80	17.28	20.84	15.16	20.84	
	199°		20.86	20.77	18.21	14.33	20.88	17.31	20.80	15.25	20.78	
	200°		16.32	12.05	12.29	12.30	13.41	13.27	14.38	14.45	14.87	
	201°		16.37	11.99	12.43	12.31	13.36	13.44	14.33	14.46	14.94	
	202°		16.27	11.99	12.39	12.46	13.30	13.33	14.35	14.37	14.90	
	203°		16.45	11.94	12.32	12.30	13.33	13.36	14.28	14.39	14.78	
	204°		16.47	11.89	12.42	12.35	13.34	13.31	14.36	14.39	14.96	
	205°		16.40	12.03	12.37	12.31	13.39	13.35	14.27	14.41	14.82	
	Tablet	215°	16.38	11.91	12.27	12.29	13.31	13.31	14.35	14.31	14.86	
		225°	16.39	12.07	12.30	12.33	13.46	13.34	14.27	14.33	14.77	
		235°	16.42	11.99	12.26	12.43	13.33	13.28	14.42	14.40	14.97	
		245°	16.35	12.02	12.42	12.35	13.39	13.30	14.41	14.35	14.86	
		255°	16.34	11.94	12.35	12.35	13.36	13.44	14.41	14.38	14.93	
		265°	16.39	11.95	12.42	12.29	13.37	13.45	14.33	14.42	14.86	
		275°	16.47	12.01	12.35	12.37	13.42	13.33	14.29	14.47	14.78	
		285°	16.32	11.90	12.28	12.43	13.30	13.28	14.42	14.38	14.95	
		295°	16.38	11.94	12.45	12.40	13.35	13.46	14.44	14.46	14.95	
		305°	16.31	11.98	12.29	12.38	13.37	13.43	14.32	14.44	14.94	
	Laptop	315°	16.29	11.93	12.31	12.30	13.29	13.31	14.33	14.45	14.78	
		325°	16.34	11.98	12.34	12.32	13.38	13.38	14.38	14.45	14.84	
		335°	16.32	12.07	12.26	12.40	13.28	13.35	14.43	14.42	14.88	
		345°	16.41	12.05	12.42	12.37	13.31	13.39	14.25	14.29	14.87	
		355°	16.37	11.89	12.30	12.44	13.31	13.31	14.44	14.41	14.95	
		360°	16.40	11.96	12.40	12.38	13.29	13.40	14.43	14.27	14.84	
		365°	16.39	11.97	12.29	12.41	13.33	13.41	14.34	14.36	14.81	
		340°	16.30	11.95	12.37	12.42	13.42	13.34	14.35	14.45	14.80	
		330°	16.46	12.05	12.33	12.28	13.44	13.34	14.34	14.32	14.83	
		320°	16.38	12.07	12.25	12.28	13.38	13.42	14.40	14.28	14.85	
	Tablet	310°	16.45	11.99	12.27	12.47	13.30	13.42	14.27	14.42	14.83	
		300°	16.46	12.05	12.33	12.33	13.46	13.43	14.37	14.34	14.86	
		290°	16.43	12.01	12.34	12.31	13.27	13.42	14.28	14.32	14.93	
		280°	16.36	11.98	12.38	12.27	13.29	13.36	14.30	14.47	14.79	
		270°	16.45	12.08	12.29	12.33	13.27	13.34	14.42	14.37	14.78	
		260°	16.28	11.96	12.38	12.35	13.39	13.35	14.32	14.33	14.79	
		250°	16.46	11.91	12.41	12.31	13.40	13.38	14.33	14.30	14.81	
		240°	16.37	12.08	12.42	12.43	13.29	13.37	14.29	14.41	14.87	
		230°	16.27	12.08	12.33	12.30	13.35	13.47	14.43	14.32	14.80	
		220°	16.40	11.98	12.33	12.35	13.29	13.42	14.31	14.27	14.87	
	Laptop	210°	16.43	11.90	12.36	12.28	13.28	13.29	14.43	14.33	14.90	
		200°	16.37	11.99	12.35	12.33	13.44	13.29	14.29	14.44	14.94	
		190°	20.84	20.77	18.31	14.29	20.85	17.20	20.93	15.15	20.92	
		195°	20.82	20.82	18.37	14.28	20.80	17.24	20.86	15.23	20.88	
		Tablet	200°	16.48	12.07	12.44	12.49	13.48	13.49	14.47	14.49	14.99
			199°	20.80	20.96	18.24	14.30	20.89	17.31	20.83	15.11	20.96
			198°	20.89	20.90	18.21	14.36	20.90	17.26	20.85	15.18	20.95
			197°	20.83	20.85	18.37	14.24	20.87	17.17	20.84	15.13	20.87
			196°	20.85	20.88	18.37	14.24	20.90	17.26	20.87	15.26	20.83
			195°	20.90	20.80	18.24	14.40	20.92	17.28	20.83	15.19	20.88
	194°		20.89	20.76	18.26	14.34	20.87	17.25	20.78	15.17	20.93	
	193°		20.85	20.78	18.30	14.33	20.82	17.24	20.86	15.28	20.87	
	192°		20.89	20.92	18.36	14.23	20.80	17.24	20.94	15.25	20.86	
	191°		20.77	20.84	18.36	14.27	20.81	17.25	20.87	15.27	20.92	
	Laptop	190°	20.93	20.88	18.27	14.21	20.86	17.28	20.75	15.13	20.92	
		180°	20.95	20.91	18.39	14.38	20.90	17.15	20.88	15.10	20.86	
		170°	20.80	20.79	18.37	14.40	20.83	17.33	20.81	15.15	20.93	
		160°	20.96	20.79	18.26	14.27	20.88	17.28	20.89	15.15	20.84	
		150°	20.78	20.93	18.19	14.25	20.89	17.14	20.89	15.17	20.78	
		140°	20.87	20.82	18.23	14.37	20.79	17.17	20.83	15.20	20.80	
		130°	20.86	20.86	18.35	14.26	20.81	17.28	20.84	15.23	20.88	
		120°	20.89	20.81	18.20	14.39	20.81	17.16	20.78	15.13	20.87	
		110°	20.81	20.77	18.25	14.38	20.78	17.29	20.88	15.18	20.91	
		100°	20.90	20.82	18.23	14.34	20.82	17.24	20.84	15.25	20.92	
	Laptop	90°	20.81	20.77	18.32	14.29	20.82	17.27	20.75	15.24	20.91	
		80°	20.96	20.81	18.25	14.34	20.77	17.18	20.76	15.22	20.88	
		70°	20.93	20.86	18.33	14.20	20.77	17.26	20.84	15.20	20.81	
		60°	20.79	20.89	18.32	14.28	20.83	17.19	20.94	15.21	20.84	
50°		20.79	20.87	18.20	14.30	20.79	17.28	20.74	15.17	20.97		
40°		20.95	20.89	18.38	14.35	20.85	17.14	20.88	15.29	20.92		
30°		20.85	20.89	18.30	14.22	20.78	17.17	20.93	15.19	20.87		
Lid close		20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		30°	20.85	20.85	18.30	14.31	20.80	17.17	20.81	15.10	20.92	
	29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	24°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	23°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lid close	22											



Antenna	Operation mode	Lid angle	802.11b	WLAN 802.11n(40M) 5.2G	WLAN 802.11ac(80M) 5.2G	LAN 802.11ac(160M) 5.2G	WLAN 802.11ac(80M) 5.3G	WLAN 802.11ac(160M) 5.3G	WLAN 802.11ac(80M) 5.8G	WLAN 802.11ac(160M) 5.8G	WLAN 802.11ac(80M) 5.8G	WLAN 802.11n(40M) 5.8G	
Lid close	Laptop	0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		30°	20.99	20.98	18.27	13.88	20.91	17.52	20.98	15.47	20.10	20.99	20.99
		25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		30°	20.96	20.83	18.24	13.70	20.81	17.37	20.76	15.26	19.96	20.89	20.89
Lid close	Laptop	31°	20.81	20.86	18.24	13.81	20.77	17.49	20.92	15.39	19.95	20.87	20.87
		32°	20.82	20.81	18.13	13.75	20.71	17.46	20.80	15.43	20.00	20.88	20.88
		33°	20.85	20.93	18.08	13.78	20.77	17.38	20.78	15.32	20.07	20.83	20.83
		34°	20.81	20.90	18.15	13.80	20.81	17.36	20.84	15.26	20.05	20.95	20.95
		35°	20.95	20.86	18.05	13.77	20.80	17.40	20.96	15.45	20.01	20.94	20.94
		45°	20.87	20.82	18.21	13.86	20.83	17.50	20.88	15.29	19.92	20.88	20.88
		55°	20.90	20.81	18.07	13.75	20.75	17.39	20.87	15.29	19.95	20.82	20.82
		65°	20.93	20.89	18.08	13.69	20.80	17.36	20.79	15.42	19.93	20.95	20.95
		75°	20.81	20.80	18.23	13.80	20.78	17.32	20.77	15.34	20.00	20.82	20.82
		85°	20.86	20.86	18.05	13.78	20.88	17.38	20.77	15.44	19.99	20.96	20.96
Lid close	Laptop	95°	20.94	20.96	18.09	13.73	20.78	17.41	20.80	15.26	20.07	20.97	20.97
		105°	20.84	20.94	18.05	13.79	20.84	17.45	20.87	15.44	19.94	20.83	20.83
		115°	20.80	20.78	18.18	13.81	20.80	17.40	20.77	15.36	19.92	20.90	20.90
		125°	20.84	20.79	18.17	13.74	20.87	17.41	20.80	15.43	20.05	20.80	20.80
		135°	20.88	20.84	18.25	13.81	20.83	17.38	20.90	15.30	19.90	20.92	20.92
		145°	20.80	20.82	18.15	13.80	20.72	17.43	20.90	15.32	19.89	20.80	20.80
		155°	20.78	20.81	18.14	13.80	20.84	17.33	20.86	15.44	19.92	20.96	20.96
		165°	20.78	20.86	18.17	13.80	20.78	17.39	20.89	15.37	20.02	20.92	20.92
		175°	20.96	20.94	18.18	13.78	20.79	17.32	20.87	15.33	19.93	20.96	20.96
		185°	20.86	20.86	18.14	13.72	20.80	17.31	20.95	15.42	19.88	20.97	20.97
Lid close	Tablet	195°	20.84	20.87	18.15	13.78	20.76	17.50	20.86	15.33	20.02	20.81	20.81
		205°	17.99	13.57	13.98	13.99	13.48	13.43	14.93	14.93	14.49	14.46	14.46
		215°	20.95	20.89	18.19	13.81	20.71	17.46	20.92	15.26	20.06	20.96	20.96
		196°	20.89	20.92	18.08	13.70	20.77	17.43	20.84	15.27	20.03	20.96	20.96
		197°	20.92	20.81	18.06	13.82	20.81	17.34	20.86	15.29	20.00	20.89	20.89
		198°	20.95	20.79	18.10	13.73	20.86	17.44	20.80	15.38	20.05	20.87	20.87
		199°	20.84	20.80	18.18	13.83	20.83	17.34	20.83	15.26	20.03	20.83	20.83
		200°	17.95	13.54	13.83	13.89	13.30	13.31	14.80	14.74	14.32	14.30	14.30
		201°	17.88	13.36	13.87	13.83	13.41	13.29	14.93	14.84	14.47	14.41	14.41
		202°	17.90	13.40	13.87	13.90	13.33	13.22	14.80	14.90	14.29	14.25	14.25
Lid close	Tablet	203°	17.83	13.37	13.87	13.77	13.28	13.33	14.84	14.71	14.46	14.38	14.38
		204°	17.83	13.42	13.85	13.85	13.43	13.31	14.95	14.86	14.46	14.25	14.25
		205°	17.88	13.54	13.91	13.96	13.36	13.37	14.90	14.82	14.39	14.41	14.41
		215°	17.93	13.41	13.84	13.94	13.39	13.24	14.90	14.74	14.33	14.38	14.38
		225°	17.80	13.44	13.92	13.84	13.45	13.34	14.86	14.84	14.28	14.41	14.41
		235°	17.95	13.41	13.93	13.85	13.39	13.34	14.77	14.71	14.34	14.30	14.30
		245°	17.96	13.48	13.80	13.80	13.29	13.31	14.93	14.86	14.39	14.31	14.31
		255°	17.78	13.35	13.78	13.95	13.45	13.37	14.84	14.74	14.46	14.24	14.24
		265°	17.85	13.87	13.84	13.80	13.40	13.32	14.81	14.75	14.26	14.36	14.36
		275°	17.97	13.44	13.93	13.81	13.27	13.33	14.85	14.75	14.29	14.34	14.34
Lid close	Tablet	285°	17.97	13.54	13.84	13.86	13.32	13.28	14.78	14.81	14.34	14.27	14.27
		295°	17.77	13.51	13.76	13.97	13.33	13.35	14.91	14.77	14.33	14.42	14.42
		305°	17.84	13.40	13.80	13.82	13.27	13.35	14.87	14.71	14.28	14.28	14.28
		315°	17.78	13.38	13.79	13.92	13.36	13.26	14.79	14.84	14.33	14.25	14.25
		325°	17.80	13.49	13.83	13.96	13.41	13.24	14.79	14.90	14.42	14.31	14.31
		335°	17.79	13.39	13.82	13.93	13.35	13.35	14.94	14.83	14.28	14.35	14.35
		345°	17.85	13.42	13.90	13.95	13.32	13.29	14.90	14.72	14.37	14.30	14.30
		355°	17.84	13.52	13.80	13.95	13.42	13.25	14.79	14.77	14.27	14.27	14.27
		360°	17.87	13.53	13.87	13.90	13.36	13.35	14.80	14.75	14.33	14.39	14.39
		350°	17.94	13.40	13.78	13.95	13.41	13.40	14.88	14.77	14.40	14.41	14.41
Lid close	Tablet	340°	17.83	13.40	13.85	13.83	13.40	13.28	14.84	14.74	14.38	14.38	14.38
		330°	17.82	13.44	13.96	13.90	13.30	13.21	14.94	14.84	14.38	14.43	14.43
		320°	17.89	13.49	13.79	13.82	13.42	13.30	14.94	14.89	14.47	14.28	14.28
		310°	17.77	13.46	13.90	13.92	13.40	13.31	14.92	14.90	14.32	14.40	14.40
		300°	17.80	13.49	13.92	13.95	13.28	13.28	14.80	14.74	14.40	14.35	14.35
		290°	17.95	13.55	13.79	13.97	13.32	13.32	14.93	14.86	14.33	14.39	14.39
		280°	17.80	13.50	13.92	13.93	13.29	13.31	14.94	14.88	14.28	14.26	14.26
		270°	17.88	13.47	13.79	13.81	13.39	13.25	14.79	14.89	14.34	14.30	14.30
		260°	17.93	13.41	13.93	13.96	13.26	13.38	14.86	14.73	14.30	14.39	14.39
		250°	17.96	13.44	13.94	13.85	13.45	13.33	14.85	14.84	14.35	14.31	14.31
Lid close	Tablet	240°	17.89	13.37	13.76	13.90	13.32	13.30	14.96	14.91	14.31	14.38	14.38
		230°	17.93	13.37	13.87	13.83	13.32	13.41	14.90	14.83	14.44	14.39	14.39
		220°	17.92	13.40	13.80	13.80	13.27	13.35	14.95	14.78	14.38	14.35	14.35
		210°	17.92	13.45	13.81	13.88	13.32	13.32	14.81	14.73	14.34	14.32	14.32
		200°	17.85	13.46	13.82	13.95	13.38	13.36	14.77	14.77	14.36	14.40	14.40
		190°	20.84	20.78	18.13	13.74	20.77	17.38	20.79	15.39	19.90	20.96	20.96
		185°	20.96	20.86	18.19	13.73	20.82	17.46	20.88	15.34	20.00	20.88	20.88
		184°	20.84	20.84	18.17	13.87	20.79	17.45	20.80	15.31	19.90	20.87	20.87
		199°	20.92	20.83	18.17	13.70	20.79	17.46	20.92	15.27	19.98	20.95	20.95
		198°	20.84	20.84	18.23	13.82	20.88	17.36	20.79	15.42	19.98	20.83	20.83
Lid close	Laptop	197°	20.95	20.89	18.22	13.78	20.79	17.48	20.85	15.45	19.99	20.84	20.84
		196°	20.94	20.83	18.23	13.76	20.81	17.40	20.86	15.35	19.97	20.93	20.93
		195°	20.91	20.90	18.16	13.86	20.77	17.43	20.79	15.36	19.92	20.80	20.80
		194°	20.87	20.96	18.15	13.86	20.72	17.34	20.77	15.38	19.88	20.83	20.83
		193°	20.81	20.92	18.05	13.77	20.71	17.43	20.90	15.34	19.95	20.80	20.80
		192°	20.78	20.83	18.07	13.80	20.76	17.40	20.77	15.36	19.95	20.83	20.83
Lid close	Laptop	190°	20.89	20.98	18.17	13.79	20.69	17.35	20.94	15.40	19.94	20.94	20.94
		191°	20.84	20.88	18.18	13.70	20.89	17.49	20.76	15.34	20.05	20.84	20.84
		180°	20.90	20.87	18.16	13.72	20.74	17.47	20.83	15.43	19.98	20.90	20.90
		170°	20.78	20.78	18.13	13.68	20.84	17.31	20.92	15.42	20.06	20.77	20.77
		160°	20.71	20.67	18.01	13.71	20.61	17.31	20.92	15.26	19.91.		

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

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

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

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

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

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

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

Notebook Mode

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.99
		6	2437		21.00	20.98
		11	2462		21.00	20.92
	802.11g	1	2412	6Mbps	20.00	19.49
		6	2437		21.00	20.48
		11	2462		18.50	17.94
	802.11n20-HT0	1	2412	MCS0	20.00	19.44
		6	2437		21.00	20.42
		11	2462		18.50	17.95
	802.11ax20-HE0	1	2412	MCS0	20.00	19.46
		6	2437		21.00	20.35
		11	2462		18.50	17.92
	802.11n40-HT0	3	2422	MCS0	16.00	15.38
		6	2437		21.00	20.36
		9	2452		16.00	15.36
	802.11ax40-HE0	3	2422	MCS0	16.00	15.45
		6	2437		21.00	20.38
		9	2452		16.00	15.38

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Main						
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	20.00	19.35
		40	5200		21.00	20.95
		44	5220		21.00	20.96
		48	5240		21.00	20.92
	802.11n20-HT0	36	5180	MCS0	20.00	19.42
		40	5200		21.00	20.50
		44	5220		21.00	20.40
		48	5240		21.00	20.42
	802.11ax20-HE0	36	5180	MCS0	20.00	19.34
		40	5200		21.00	20.37
		44	5220		21.00	20.43
		48	5240		21.00	20.34
	802.11n40-HT0	38	5190	MCS0	18.25	17.70
		46	5230		21.00	20.98
	802.11ax40-HE0	38	5190	MCS0	18.25	17.56
		46	5230		21.00	20.31
	802.11ac80-VHT0	42	5210	MCS0	19.00	18.41
	802.11ax80-HE0	42	5210	MCS0	19.00	18.33
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.42
	802.11ax160-HE0	50	5250	MCS0	15.00	14.43
Main						
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	21.00	20.95
		56	5280		21.00	20.99
		60	5300		21.00	20.91
		64	5320		21.00	20.92
	802.11n20-HT0	52	5260	MCS0	21.00	20.33
		56	5280		21.00	20.38
		60	5300		21.00	20.37
		64	5320		21.00	20.41
	802.11ax20-HE0	52	5260	MCS0	21.00	20.43
		56	5280		21.00	20.47
		60	5300		21.00	20.44
		64	5320		21.00	20.50
	802.11n40-HT0	54	5270	MCS0	21.00	20.99
		62	5310		18.00	17.35
	802.11ax40-HE0	54	5270	MCS0	21.00	20.33
		62	5310		18.00	17.46
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.36
	802.11ax80-HE0	58	5290	MCS0	18.00	17.30

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	21.00	20.42
		120	5600		21.00	20.38
		140	5700		20.75	20.11
	802.11n20-HT0	100	5500	MCS0	21.00	20.47
		120	5600		21.00	20.42
		140	5700		20.75	20.09
	802.11ax20-HE0	100	5500	MCS0	21.00	20.32
		120	5600		21.00	20.42
		140	5700		20.75	20.13
	802.11n40-HT0	102	5510	MCS0	20.25	19.75
		118	5590		21.00	20.50
		134	5670		21.00	20.91
		142	5710		21.00	20.94
	802.11ax40-HE0	102	5510	MCS0	20.25	19.65
		118	5590		21.00	20.38
		134	5670		21.00	20.39
		142	5710		21.00	20.42
	802.11ac80-VHT0	106	5530	MCS0	19.00	18.38
		122	5610		21.00	20.73
		138	5690		21.00	20.96
	802.11ax80-HE0	106	5530	MCS0	19.25	18.65
		122	5610		21.00	20.38
		138	5690		21.00	20.38
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.31
	802.11ax160-HE0	114	5570	MCS0	16.00	15.32
Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.44
		157	5785		21.00	20.48
		165	5825		21.00	20.41
	802.11n20-HT0	149	5745	MCS0	21.00	20.37
		157	5785		21.00	20.36
		165	5825		21.00	20.42
	802.11ax20-HE0	149	5745	MCS0	21.00	20.37
		157	5785		21.00	20.39
		165	5825		21.00	20.45
	802.11n40-HT0	151	5755	MCS0	21.00	20.98
		159	5795		21.00	20.97
	802.11ax40-HE0	151	5755	MCS0	21.00	20.34
		159	5795		21.00	20.49
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.99
	802.11ax80-HE0	155	5775	MCS0	21.00	20.31

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	21.00	20.97
		6	2437		21.00	20.92
		11	2462		21.00	20.99
	802.11g	1	2412	6Mbps	19.75	19.27
		6	2437		21.00	20.55
		11	2462		18.75	18.22
	802.11n20-HT0	1	2412	MCS0	19.75	19.16
		6	2437		21.00	20.54
		11	2462		18.75	18.23
	802.11ax20-HE0	1	2412	MCS0	19.75	19.22
		6	2437		21.00	20.48
		11	2462		18.75	18.11
	802.11n40-HT0	3	2422	MCS0	16.25	15.67
		6	2437		21.00	20.48
		9	2452		17.50	16.95
	802.11ax40-HE0	3	2422	MCS0	16.25	15.61
		6	2437		21.00	20.46
		9	2452		17.50	16.85
Aux						
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	20.00	19.42
		40	5200		21.00	20.97
		44	5220		21.00	20.98
		48	5240		21.00	20.95
	802.11n20-HT0	36	5180	MCS0	20.00	19.43
		40	5200		21.00	20.45
		44	5220		21.00	20.52
		48	5240		21.00	20.47
	802.11ax20-HE0	36	5180	MCS0	20.00	19.53
		40	5200		21.00	20.50
		44	5220		21.00	20.52
		48	5240		21.00	20.49
	802.11n40-HT0	38	5190	MCS0	19.25	18.74
		46	5230		21.00	20.98
	802.11ax40-HE0	38	5190	MCS0	19.25	18.65
		46	5230		21.00	20.43
	802.11ac80-VHT0	42	5210	MCS0	18.75	18.27
	802.11ax80-HE0	42	5210	MCS0	18.75	18.23
802.11ac160-VHT0	50	5250	MCS0	14.50	13.88	
802.11ax160-HE0	50	5250	MCS0	14.50	13.97	

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Aux						
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	21.00	20.97
		56	5280		21.00	20.95
		60	5300		21.00	20.98
		64	5320		21.00	20.99
	802.11n20-HT0	52	5260	MCS0	21.00	20.35
		56	5280		21.00	20.38
		60	5300		21.00	20.39
		64	5320		21.00	20.40
	802.11ax20-HE0	52	5260	MCS0	21.00	20.45
		56	5280		21.00	20.53
		60	5300		21.00	20.54
		64	5320		21.00	20.44
	802.11n40-HT0	54	5270	MCS0	21.00	20.91
		62	5310		18.00	17.52
	802.11ax40-HE0	54	5270	MCS0	21.00	20.36
		62	5310		18.00	17.45
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.52
	802.11ax80-HE0	58	5290	MCS0	18.00	17.48

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	21.00	20.50
		120	5600		21.00	20.41
		140	5700		20.75	20.27
	802.11n20-HT0	100	5500	MCS0	21.00	20.55
		120	5600		21.00	20.38
		140	5700		20.75	20.24
	802.11ax20-HE0	100	5500	MCS0	21.00	20.51
		120	5600		21.00	20.51
		140	5700		20.75	20.13
	802.11n40-HT0	102	5510	MCS0	20.75	20.11
		118	5590		21.00	20.75
		134	5670		21.00	20.95
		142	5710		21.00	20.99
	802.11ax40-HE0	102	5510	MCS0	20.75	20.25
		118	5590		21.00	20.39
		134	5670		21.00	20.36
		142	5710		21.00	20.39
	802.11ac80-VHT0	106	5530	MCS0	19.25	18.62
		122	5610		21.00	20.79
		138	5690		21.00	20.98
	802.11ax80-HE0	106	5530	MCS0	19.00	18.49
		122	5610		21.00	20.42
		138	5690		21.00	20.36
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.47
	802.11ax160-HE0	114	5570	MCS0	16.00	15.37
Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.40
		157	5785		21.00	20.46
		165	5825		21.00	20.36
	802.11n20-HT0	149	5745	MCS0	21.00	20.35
		157	5785		21.00	20.40
		165	5825		21.00	20.47
	802.11ax20-HE0	149	5745	MCS0	21.00	20.37
		157	5785		21.00	20.48
		165	5825		21.00	20.36
	802.11n40-HT0	151	5755	MCS0	21.00	20.99
		159	5795		21.00	20.98
	802.11ax40-HE0	151	5755	MCS0	21.00	20.45
		159	5795		21.00	20.54
	802.11ac80-VHT0	155	5775	MCS0	20.75	20.10
	802.11ax80-HE0	155	5775	MCS0	20.75	20.23

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Tablet Mode

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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.50	16.45
		6	2437		16.50	16.48
		11	2462		16.50	16.49
	802.11g	1	2412	6Mbps	16.50	16.08
		6	2437		16.50	16.10
		11	2462		16.50	16.04
	802.11n20-HT0	1	2412	MCS0	16.50	16.06
		6	2437		16.50	16.15
		11	2462		16.50	16.22
	802.11ax20-HE0	1	2412	MCS0	16.50	16.14
		6	2437		16.50	16.05
		11	2462		16.50	16.17
	802.11n40-HT0	3	2422	MCS0	16.00	15.68
		6	2437		16.50	16.10
		9	2452		16.00	15.54
	802.11ax40-HE0	3	2422	MCS0	16.00	15.59
		6	2437		16.50	16.17
		9	2452		16.00	15.62

Main						
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	12.50	12.08
		40	5200		12.50	12.06
		44	5220		12.50	12.19
		48	5240		12.50	12.21
	802.11n20-HT0	36	5180	MCS0	12.50	12.04
		40	5200		12.50	12.02
		44	5220		12.50	12.21
		48	5240		12.50	12.03
	802.11ax20-HE0	36	5180	MCS0	12.50	12.06
		40	5200		12.50	12.03
		44	5220		12.50	12.04
		48	5240		12.50	12.14
	802.11n40-HT0	38	5190	MCS0	12.50	12.05
		46	5230		12.50	12.10
	802.11ax40-HE0	38	5190	MCS0	12.50	12.09
		46	5230		12.50	12.14
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.47
	802.11ax80-HE0	42	5210	MCS0	12.50	12.14
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.49
	802.11ax160-HE0	50	5250	MCS0	12.50	12.12

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Main						
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5.25-5.35 GHz	802.11a	52	5260	6Mbps	13.50	13.15
		56	5280		13.50	13.03
		60	5300		13.50	13.03
		64	5320		13.50	13.03
	802.11n20-HT0	52	5260	MCS0	13.50	13.10
		56	5280		13.50	13.08
		60	5300		13.50	13.21
		64	5320		13.50	13.17
	802.11ax20-HE0	52	5260	MCS0	13.50	13.10
		56	5280		13.50	13.22
		60	5300		13.50	13.20
		64	5320		13.50	13.04
	802.11n40-HT0	54	5270	MCS0	13.50	13.46
		62	5310		13.50	13.48
	802.11ax40-HE0	54	5270	MCS0	13.50	13.06
		62	5310		13.50	13.03
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.49
	802.11ax80-HE0	58	5290	MCS0	13.50	13.14

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Main						
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	14.07
		120	5600		14.50	14.08
		140	5700		14.50	14.13
	802.11n20-HT0	100	5500	MCS0	14.50	14.13
		120	5600		14.50	14.21
		140	5700		14.50	14.06
	802.11ax20-HE0	100	5500	MCS0	14.50	14.16
		120	5600		14.50	14.16
		140	5700		14.50	14.21
	802.11n40-HT0	102	5510	MCS0	14.50	14.19
		118	5590		14.50	14.03
		134	5670		14.50	14.05
		142	5710		14.50	14.21
	802.11ax40-HE0	102	5510	MCS0	14.50	14.20
		118	5590		14.50	14.18
		134	5670		14.50	14.18
		142	5710		14.50	14.17
	802.11ac80-VHT0	106	5530	MCS0	14.50	14.47
		122	5610		14.50	14.22
		138	5690		14.50	14.41
	802.11ax80-HE0	106	5530	MCS0	14.50	14.05
		122	5610		14.50	14.18
		138	5690		14.50	14.08
	802.11ac160-VHT0	114	5570	MCS0	14.50	14.49
	802.11ax160-HE0	114	5570	MCS0	14.50	14.20
Main						
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	14.58
		157	5785		15.00	14.63
		165	5825		15.00	14.66
	802.11n20-HT0	149	5745	MCS0	15.00	14.65
		157	5785		15.00	14.68
		165	5825		15.00	14.66
	802.11ax20-HE0	149	5745	MCS0	15.00	14.71
		157	5785		15.00	14.67
		165	5825		15.00	14.56
	802.11n40-HT0	151	5755	MCS0	15.00	14.97
		159	5795		15.00	14.99
	802.11ax40-HE0	151	5755	MCS0	15.00	14.63
		159	5795		15.00	14.60
	802.11ac80-VHT0	155	5775	MCS0	15.00	14.99
	802.11ax80-HE0	155	5775	MCS0	15.00	14.55

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.98
		6	2437		18.00	17.98
		11	2462		18.00	17.99
	802.11g	1	2412	6Mbps	18.00	17.54
		6	2437		18.00	17.48
		11	2462		18.00	17.47
	802.11n20-HT0	1	2412	MCS0	18.00	17.63
		6	2437		18.00	17.59
		11	2462		18.00	17.50
	802.11ax20-HE0	1	2412	MCS0	18.00	17.63
		6	2437		18.00	17.59
		11	2462		18.00	17.55
	802.11n40-HT0	3	2422	MCS0	16.25	15.70
		6	2437		18.00	17.49
		9	2452		17.50	16.96
	802.11ax40-HE0	3	2422	MCS0	16.25	15.86
		6	2437		18.00	17.45
		9	2452		17.50	16.99
Aux						
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	14.00	13.58
		40	5200		14.00	13.57
		44	5220		14.00	13.53
		48	5240		14.00	13.46
	802.11n20-HT0	36	5180	MCS0	14.00	13.60
		40	5200		14.00	13.47
		44	5220		14.00	13.44
		48	5240		14.00	13.51
	802.11ax20-HE0	36	5180	MCS0	14.00	13.59
		40	5200		14.00	13.56
		44	5220		14.00	13.53
		48	5240		14.00	13.62
	802.11n40-HT0	38	5190	MCS0	14.00	13.51
		46	5230		14.00	13.61
	802.11ax40-HE0	38	5190	MCS0	14.00	13.52
		46	5230		14.00	13.57
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.98
	802.11ax80-HE0	42	5210	MCS0	14.00	13.64
802.11ac160-VHT0	50	5250	MCS0	14.00	13.99	
802.11ax160-HE0	50	5250	MCS0	14.00	13.55	

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Aux						
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	13.50	13.13
		56	5280		13.50	13.00
		60	5300		13.50	13.09
		64	5320		13.50	13.13
	802.11n20-HT0	52	5260	MCS0	13.50	12.96
		56	5280		13.50	13.04
		60	5300		13.50	13.10
		64	5320		13.50	12.99
	802.11ax20-HE0	52	5260	MCS0	13.50	13.12
		56	5280		13.50	12.95
		60	5300		13.50	13.01
		64	5320		13.50	13.08
	802.11n40-HT0	54	5270	MCS0	13.50	13.48
		62	5310		13.50	13.47
	802.11ax40-HE0	54	5270	MCS0	13.50	13.07
		62	5310		13.50	13.09
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.43
	802.11ax80-HE0	58	5290	MCS0	13.50	13.07

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	15.00	14.54
		120	5600		15.00	14.64
		140	5700		15.00	14.63
	802.11n20-HT0	100	5500	MCS0	15.00	14.52
		120	5600		15.00	14.56
		140	5700		15.00	14.55
	802.11ax20-HE0	100	5500	MCS0	15.00	14.48
		120	5600		15.00	14.49
		140	5700		15.00	14.44
	802.11n40-HT0	102	5510	MCS0	15.00	14.57
		118	5590		15.00	14.62
		134	5670		15.00	14.45
		142	5710		15.00	14.46
	802.11ax40-HE0	102	5510	MCS0	15.00	14.58
		118	5590		15.00	14.60
		134	5670		15.00	14.53
		142	5710		15.00	14.48
	802.11ac80-VHT0	106	5530	MCS0	15.00	14.98
		122	5610		15.00	14.89
		138	5690		15.00	14.99
	802.11ax80-HE0	106	5530	MCS0	15.00	14.44
		122	5610		15.00	14.53
		138	5690		15.00	14.51
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.93
	802.11ax160-HE0	114	5570	MCS0	15.00	14.46
Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.50	13.98
		157	5785		14.50	14.06
		165	5825		14.50	14.06
	802.11n20-HT0	149	5745	MCS0	14.50	13.95
		157	5785		14.50	14.07
		165	5825		14.50	14.09
	802.11ax20-HE0	149	5745	MCS0	14.50	14.08
		157	5785		14.50	14.04
		165	5825		14.50	14.13
	802.11n40-HT0	151	5755	MCS0	14.50	14.41
		159	5795		14.50	14.46
	802.11ax40-HE0	151	5755	MCS0	14.50	14.06
		159	5795		14.50	13.96
	802.11ac80-VHT0	155	5775	MCS0	14.50	14.49
	802.11ax80-HE0	155	5775	MCS0	14.50	14.02

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Notebook Mode

Main						
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	7.00	6.37
		45	6175		7.00	6.49
		93	6415		7.00	6.40
	802.11ax40-HE0	3	5965	MCS0	10.00	9.47
		43	6165		10.00	9.45
		91	6405		10.00	9.33
	802.11ax80-HE0	7	5985	MCS0	13.00	12.46
		39	6145		13.00	12.38
		87	6385		13.00	12.49
	802.11ax160-HE0	15	6025	MCS0	13.50	13.44
		47	6185		13.50	13.48
		79	6345		13.50	13.37
Main						
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	6.31
		105	6475		7.00	6.49
		113	6515		7.00	6.36
	802.11ax40-HE0	99	6445	MCS0	10.00	9.37
		107	6485		10.00	9.34
	802.11ax80-HE0	103	6465	MCS0	13.00	12.37
		119	6545		13.00	12.32
	802.11ax160-HE0	111	6505	MCS0	13.50	13.47

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.31
		149	6695		7.00	6.33
		181	6855		7.00	6.43
	802.11ax40-HE0	115	6525	MCS0	10.00	9.48
		147	6685		10.00	9.35
		179	6845		10.00	9.38
	802.11ax80-HE0	135	6625	MCS0	13.00	12.36
		151	6705		13.00	12.41
		167	6785		13.00	12.31
	802.11ax160-HE0	143	6665	MCS0	13.50	13.48
		175	6825		13.50	13.39
Main						
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	6.48
		209	6995		7.00	6.34
		233	7115		7.00	6.44
	802.11ax40-HE0	187	6885	MCS0	10.00	9.37
		227	7085		10.00	9.43
	802.11ax80-HE0	183	6865	MCS0	13.00	12.43
		199	6945		13.00	12.38
		215	7025		13.00	12.45
	802.11ax160-HE0	207	6985	MCS0	13.50	13.48

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Aux						
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	7.00	6.54
		45	6175		7.00	6.35
		93	6415		7.00	6.54
	802.11ax40-HE0	3	5965	MCS0	10.00	9.52
		43	6165		10.00	9.54
		91	6405		10.00	9.51
	802.11ax80-HE0	7	5985	MCS0	13.00	12.43
		39	6145		13.00	12.48
		87	6385		13.00	12.38
	802.11ax160-HE0	15	6025	MCS0	13.50	13.49
		47	6185		13.50	13.46
		79	6345		13.50	13.48
Aux						
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	6.45
		105	6475		7.00	6.50
		113	6515		7.00	6.46
	802.11ax40-HE0	99	6445	MCS0	10.00	9.45
		107	6485		10.00	9.51
	802.11ax80-HE0	103	6465	MCS0	13.00	12.40
		119	6545		13.00	12.52
	802.11ax160-HE0	111	6505	MCS0	13.50	13.49

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.37
		149	6695		7.00	6.55
		181	6855		7.00	6.50
	802.11ax40-HE0	115	6525	MCS0	10.00	9.41
		147	6685		10.00	9.49
		179	6845		10.00	9.48
	802.11ax80-HE0	135	6625	MCS0	13.00	12.41
		151	6705		13.00	12.44
		167	6785		13.00	12.46
	802.11ax160-HE0	143	6665	MCS0	13.50	13.44
		175	6825		13.50	13.49
Aux						
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	6.42
		209	6995		7.00	6.46
		233	7115		7.00	6.46
	802.11ax40-HE0	187	6885	MCS0	10.00	9.47
		227	7085		10.00	9.48
	802.11ax80-HE0	183	6865	MCS0	13.00	12.37
		199	6945		13.00	12.49
		215	7025		13.00	12.48
	802.11ax160-HE0	207	6985	MCS0	13.50	13.47

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Notebook Mode

Main						
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	7.00	6.33
		45	6175		7.00	6.32
		93	6415		7.00	6.35
	802.11ax40-HE0	3	5965	MCS0	10.00	9.44
		43	6165		10.00	9.38
		91	6405		10.00	9.34
	802.11ax80-HE0	7	5985	MCS0	13.00	12.43
		39	6145		13.00	12.34
		87	6385		13.00	12.45
	802.11ax160-HE0	15	6025	MCS0	13.00	12.93
		47	6185		13.00	12.97
		79	6345		13.00	12.98
Main						
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	6.37
		105	6475		7.00	6.45
		113	6515		7.00	6.32
	802.11ax40-HE0	99	6445	MCS0	10.00	9.41
		107	6485		10.00	9.37
	802.11ax80-HE0	103	6465	MCS0	13.00	12.44
		119	6545		13.00	12.45
	802.11ax160-HE0	111	6505	MCS0	13.00	12.99

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.37
		149	6695		7.00	6.43
		181	6855		7.00	6.45
	802.11ax40-HE0	115	6525	MCS0	10.00	9.46
		147	6685		10.00	9.38
		179	6845		10.00	9.33
	802.11ax80-HE0	135	6625	MCS0	13.00	12.31
		151	6705		13.00	12.32
		167	6785		13.00	12.43
	802.11ax160-HE0	143	6665	MCS0	13.00	12.99
		175	6825		13.00	12.96
Main						
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	6.41
		209	6995		7.00	6.48
		233	7115		7.00	6.38
	802.11ax40-HE0	187	6885	MCS0	10.00	9.45
		227	7085		10.00	9.48
	802.11ax80-HE0	183	6865	MCS0	13.00	12.43
		199	6945		13.00	12.44
		215	7025		13.00	12.32
	802.11ax160-HE0	207	6985	MCS0	13.00	12.99

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Aux						
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	7.00	6.38
		45	6175		7.00	6.53
		93	6415		7.00	6.54
	802.11ax40-HE0	3	5965	MCS0	10.00	9.50
		43	6165		10.00	9.42
		91	6405		10.00	9.48
	802.11ax80-HE0	7	5985	MCS0	12.50	11.92
		39	6145		12.50	11.89
		87	6385		12.50	11.94
	802.11ax160-HE0	15	6025	MCS0	12.50	12.49
		47	6185		12.50	12.47
		79	6345		12.50	12.41
Aux						
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	6.51
		105	6475		7.00	6.36
		113	6515		7.00	6.54
	802.11ax40-HE0	99	6445	MCS0	10.00	9.55
		107	6485		10.00	9.39
	802.11ax80-HE0	103	6465	MCS0	12.50	11.94
		119	6545		12.50	12.04
	802.11ax160-HE0	111	6505	MCS0	12.50	12.49

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.41
		149	6695		7.00	6.45
		181	6855		7.00	6.35
	802.11ax40-HE0	115	6525	MCS0	10.00	9.45
		147	6685		10.00	9.49
		179	6845		10.00	9.49
	802.11ax80-HE0	135	6625	MCS0	12.50	11.96
		151	6705		12.50	11.98
		167	6785		12.50	11.86
	802.11ax160-HE0	143	6665	MCS0	12.50	12.44
		175	6825		12.50	12.49
Aux						
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	6.54
		209	6995		7.00	6.44
		233	7115		7.00	6.44
	802.11ax40-HE0	187	6885	MCS0	10.00	9.50
		227	7085		10.00	9.36
	802.11ax80-HE0	183	6865	MCS0	12.50	11.96
		199	6945		12.50	12.02
		215	7025		12.50	11.85
	802.11ax160-HE0	207	6985	MCS0	12.50	12.41

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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	10.50	9.56	9.50	7.92	9.50	7.94
	CH 39	2441		10.07		8.31		8.33
	CH 78	2480		10.22		8.46		8.57

6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	9	7.54
	CH 19	2440		7.96
	CH 39	2480		8.42
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	9	4.81
	CH 19	2440		5.23
	CH 39	2480		5.68

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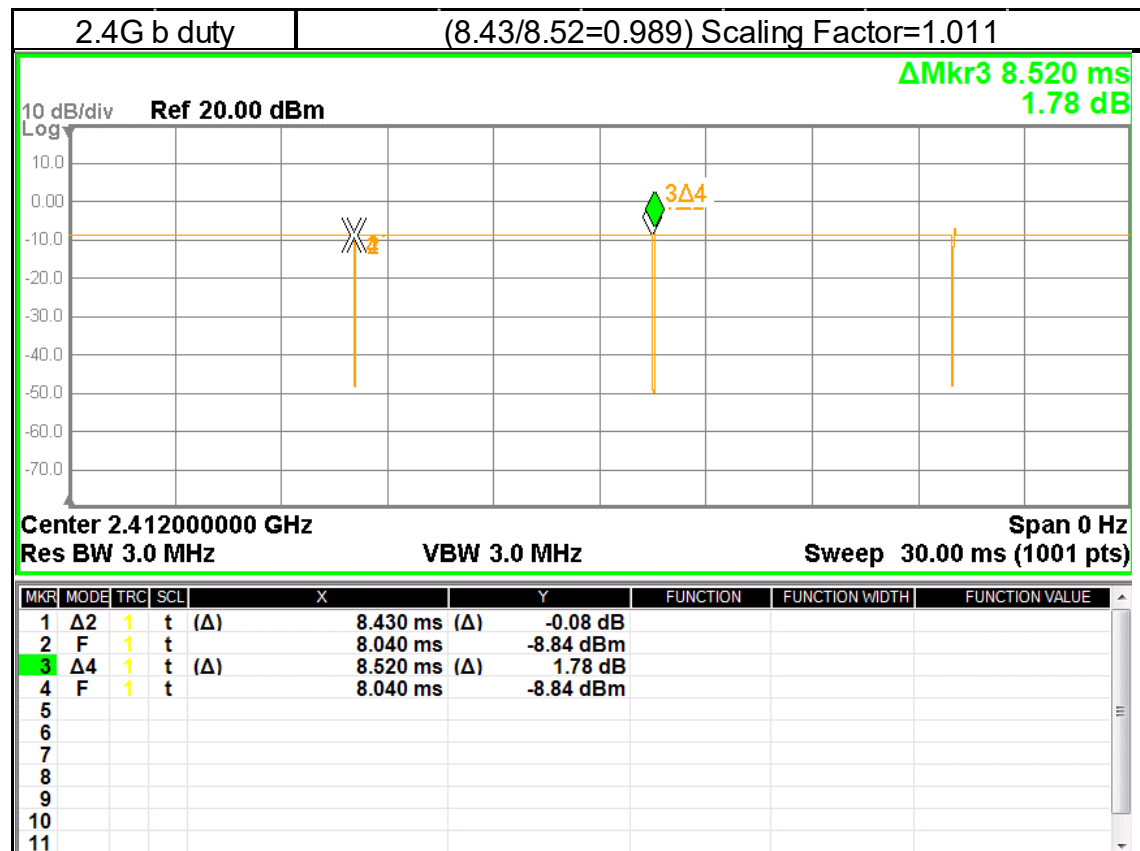
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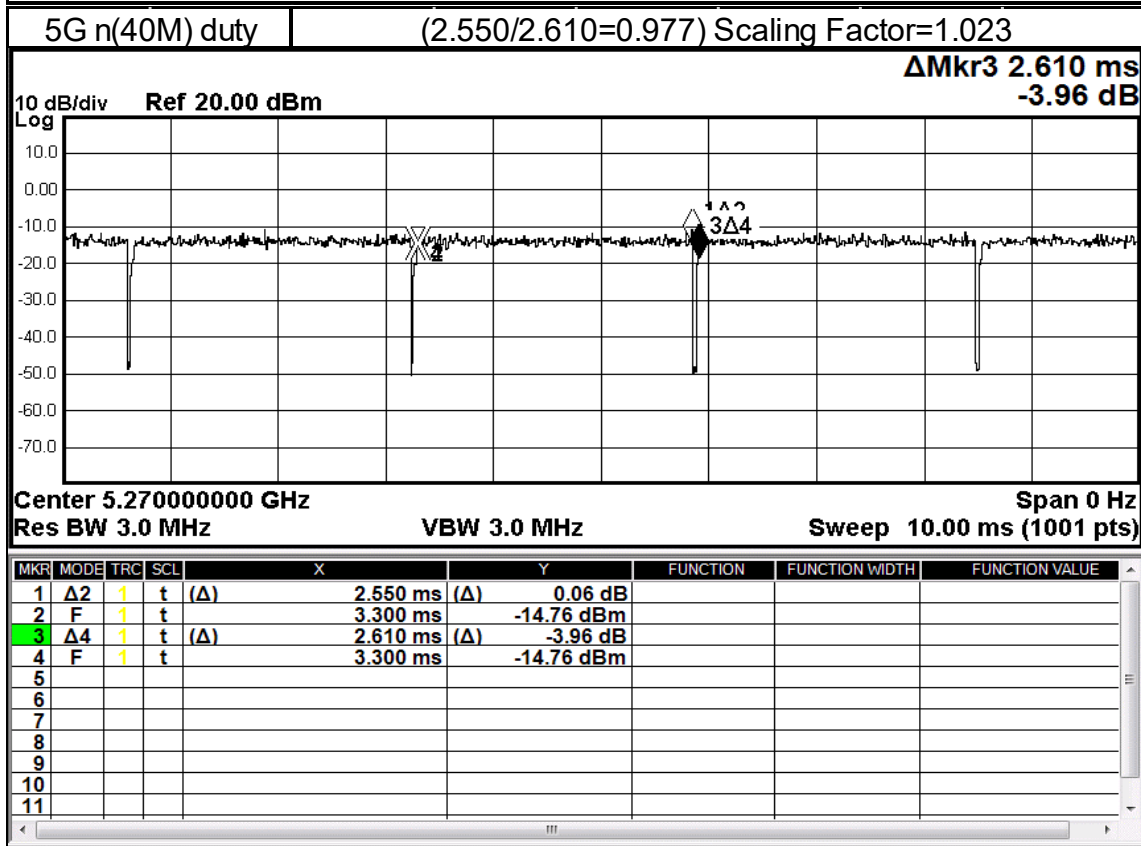
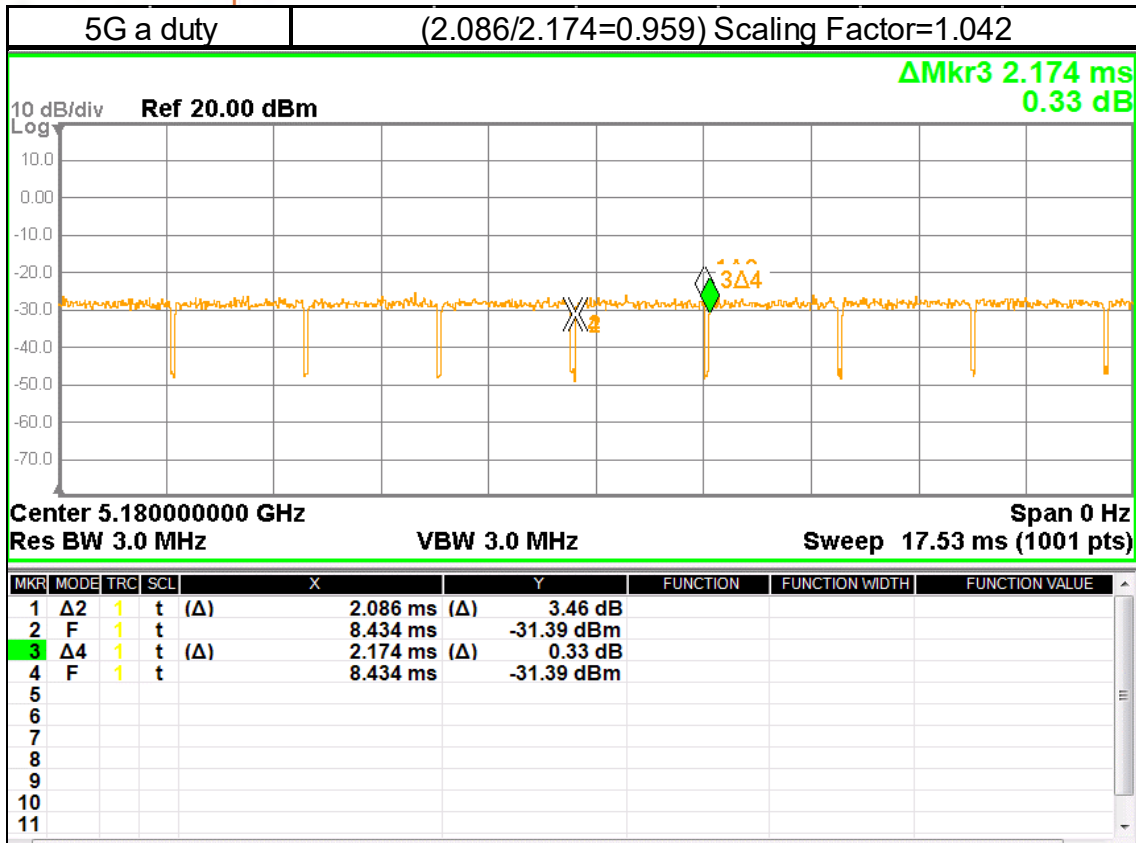
7 DUTY CYCLE



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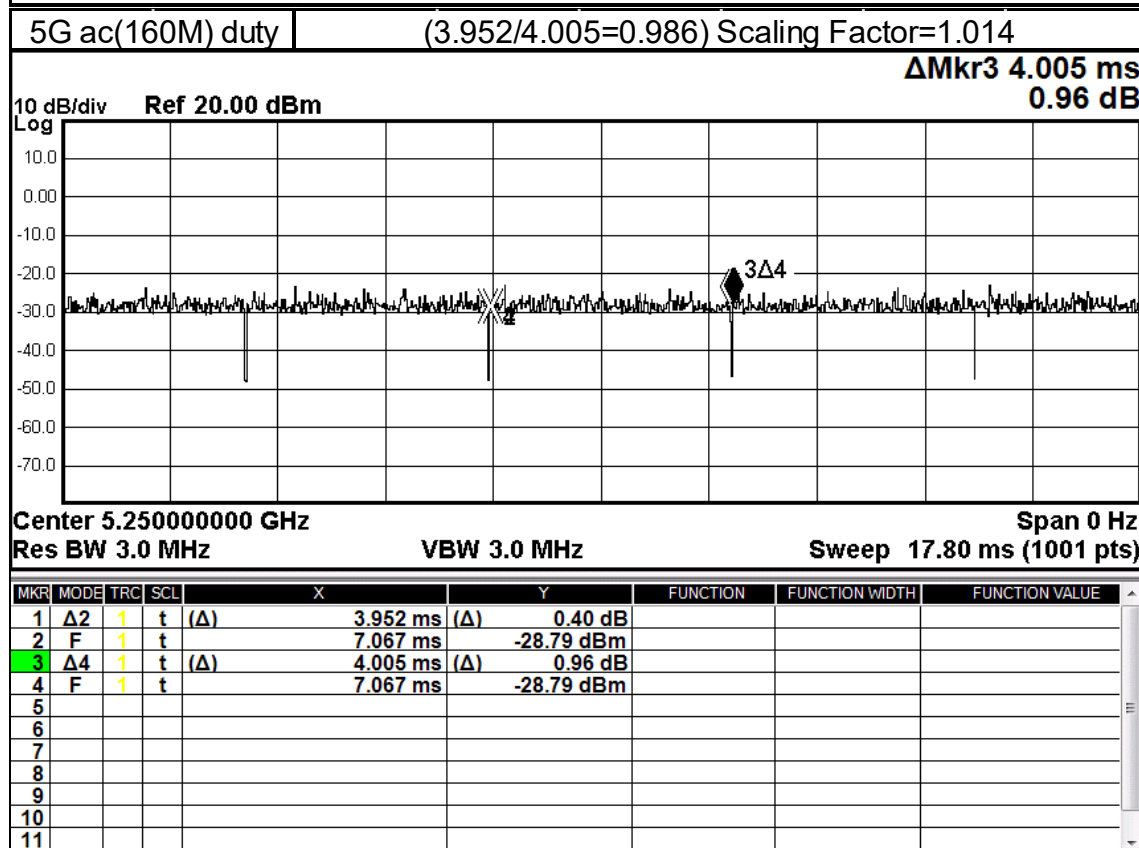
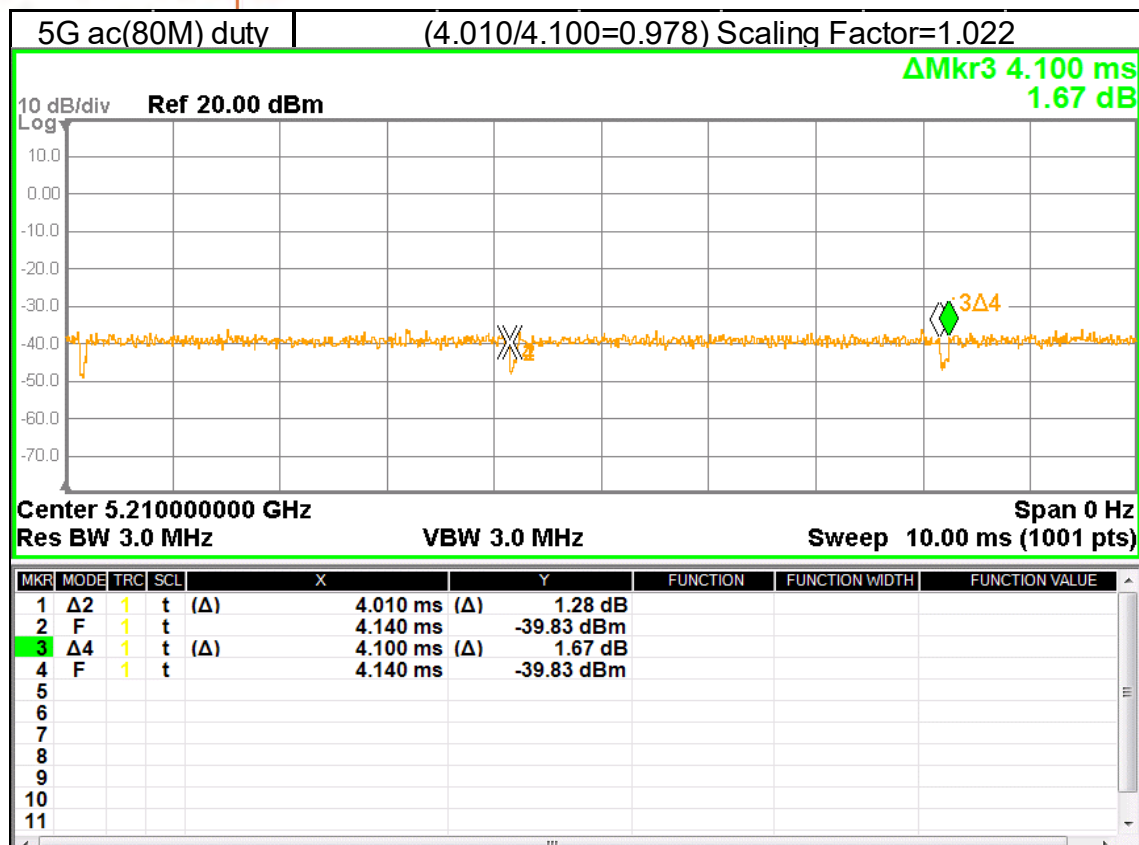
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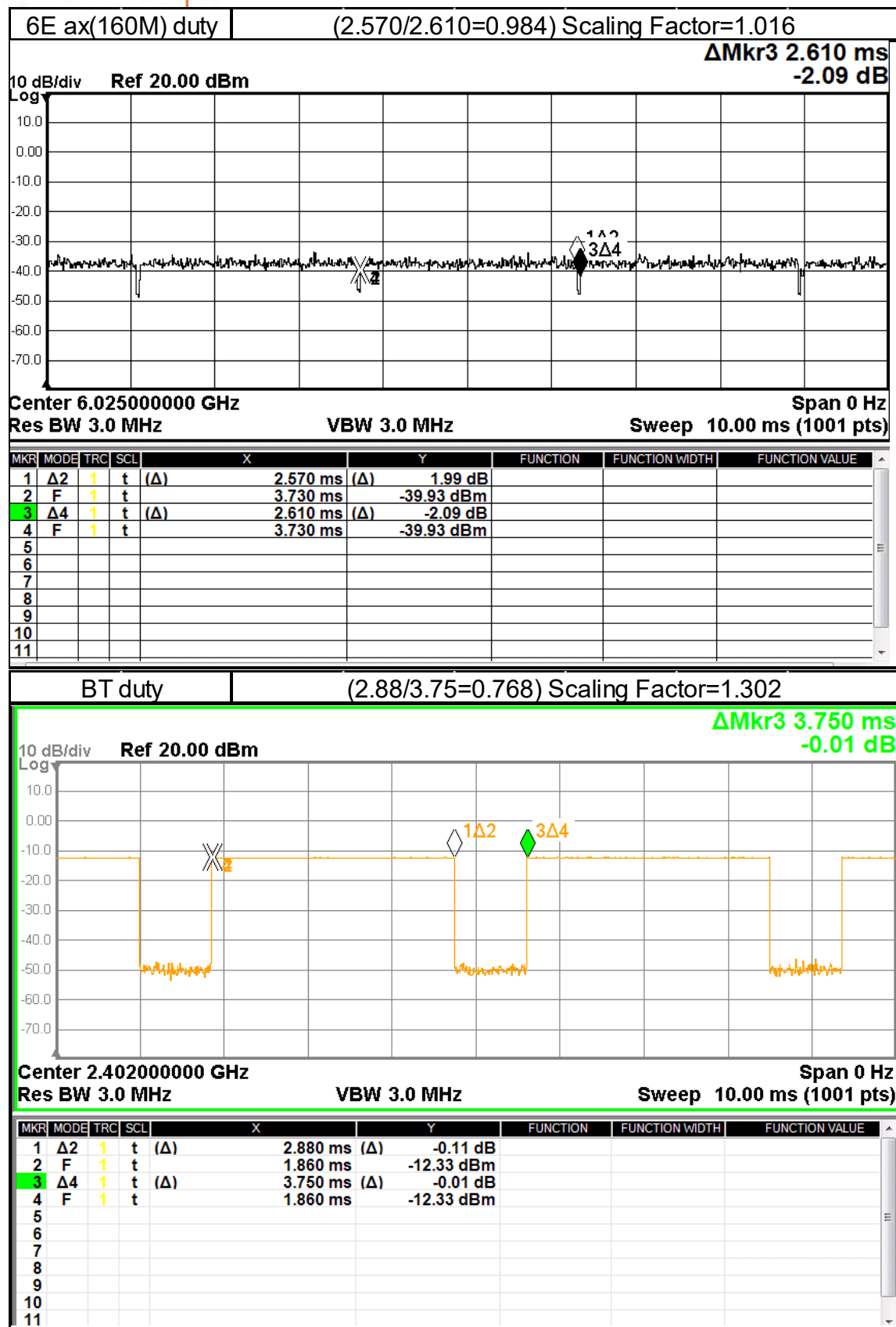
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8 SUMMARY OF RESULTS

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

Notebook Mode

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	Main	Bottom Surface	0	1	2412	21.00	20.99	1.011	100.23%	0.187	0.189	001
WLAN 802.11b	Main	Bottom Surface	0	6	2437	21.00	20.98	1.011	100.46%	0.174	0.177	-
WLAN 802.11b	Main	Bottom Surface	0	11	2462	21.00	20.92	1.011	101.86%	0.161	0.166	-
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 802.11n(40M) 5.2G	Main	Bottom Surface	0	46	5230	21.00	20.98	1.023	100.46%	0.510	0.524	002
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 802.11n(40M) 5.3G	Main	Bottom Surface	0	54	5270	21.00	20.99	1.023	100.23%	0.476	0.488	003
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) 5.6G	Main	Bottom Surface	0	138	5690	21.00	20.96	1.022	100.93%	0.558	0.576	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
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Main	Bottom Surface	0	155	5775	21.00	20.99	1.022	100.23%	0.716	0.733	005
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	Aux	Bottom Surface	0	11	2462	21.00	20.99	1.011	100.23%	0.143	0.145	006
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	
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	10.50	10.22	1.302	106.66%	0.016	0.022	007
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 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	21.00	20.98	1.023	100.46%	0.161	0.165	008
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 802.11n(40M) 5.3G	Aux	Bottom Surface	0	54	5270	21.00	20.91	1.023	102.09%	0.175	0.183	009
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) 5.6G	Aux	Bottom Surface	0	138	5690	21.00	20.98	1.022	100.46%	0.495	0.508	010
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 802.11n(40M) 5.8G	Aux	Bottom Surface	0	151	5755	21.00	20.99	1.023	100.23%	0.547	0.561	011

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Tablet Mode

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	Main	Back Surface	0	11	2462	16.50	16.49	1.011	100.23%	0.247	0.250	-
WLAN 802.11b	Main	Top Edge	0	11	2462	16.50	16.49	1.011	100.23%	0.001	0.001	-
WLAN 802.11b	Main	Right Edge	0	1	2412	16.50	16.45	1.011	101.16%	0.824	0.843	-
WLAN 802.11b	Main	Right Edge	0	6	2437	16.50	16.48	1.011	100.46%	0.832	0.845	-
WLAN 802.11b	Main	Right Edge	0	11	2462	16.50	16.49	1.011	100.23%	0.839	0.850	012
Repeated	Main	Right Edge	0	11	2462	16.50	16.49	1.011	100.23%	0.811	0.822	-
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) 5.2G	Main	Back Surface	0	42	5210	12.50	12.47	1.022	100.69%	0.158	0.163	-
WLAN 802.11ac(80M) 5.2G	Main	Top Edge	0	42	5210	12.50	12.47	1.022	100.69%	0.033	0.034	-
WLAN 802.11ac(80M) 5.2G	Main	Right Edge	0	42	5210	12.50	12.47	1.022	100.69%	0.817	0.841	013
Repeated	Main	Right Edge	0	42	5210	12.50	12.47	1.022	100.69%	0.802	0.825	-
WLAN 802.11ac(160M) 5.2G	Main	Back Surface	0	50	5250	12.50	12.49	1.014	100.23%	0.162	0.165	-
WLAN 802.11ac(160M) 5.2G	Main	Top Edge	0	50	5250	12.50	12.49	1.014	100.23%	0.046	0.047	-
WLAN 802.11ac(160M) 5.2G	Main	Right Edge	0	50	5250	12.50	12.49	1.014	100.23%	0.957	0.973	014
Repeated	Main	Right Edge	0	50	5250	12.50	12.49	1.014	100.23%	0.911	0.926	-
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 802.11n(40M) 5.3G	Main	Back Surface	0	62	5310	13.50	13.48	1.023	100.46%	0.229	0.235	-
WLAN 802.11n(40M) 5.3G	Main	Top Edge	0	62	5310	13.50	13.48	1.023	100.46%	0.039	0.040	-
WLAN 802.11n(40M) 5.3G	Main	Right Edge	0	54	5270	13.50	13.46	1.023	100.93%	1.100	1.136	-
WLAN 802.11n(40M) 5.3G	Main	Right Edge	0	62	5310	13.50	13.48	1.023	100.46%	1.150	1.182	015
Repeated	Main	Right Edge	0	62	5310	13.50	13.48	1.023	100.46%	1.090	1.120	-
WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	13.50	13.49	1.022	100.23%	0.220	0.225	-
WLAN 802.11ac(80M) 5.3G	Main	Top Edge	0	58	5290	13.50	13.49	1.022	100.23%	0.041	0.042	-
WLAN 802.11ac(80M) 5.3G	Main	Right Edge	0	58	5290	13.50	13.49	1.022	100.23%	1.140	1.168	016
Repeated	Main	Right Edge	0	58	5290	13.50	13.49	1.022	100.23%	1.095	1.122	-
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) 5.6G	Main	Back Surface	0	106	5530	14.50	14.47	1.022	100.69%	0.278	0.286	-
WLAN 802.11ac(80M) 5.6G	Main	Top Edge	0	106	5530	14.50	14.47	1.022	100.69%	0.031	0.032	-
WLAN 802.11ac(80M) 5.6G	Main	Right Edge	0	106	5530	14.50	14.47	1.022	100.69%	0.848	0.873	017
WLAN 802.11ac(80M) 5.6G	Main	Right Edge	0	138	5690	14.50	14.41	1.022	102.09%	0.777	0.811	-
Repeated	Main	Right Edge	0	106	5530	14.50	14.47	1.022	100.69%	0.821	0.845	-
WLAN 802.11ac(160M) 5.6G	Main	Back Surface	0	114	5570	14.50	14.49	1.014	100.23%	0.285	0.290	-
WLAN 802.11ac(160M) 5.6G	Main	Top Edge	0	114	5570	14.50	14.49	1.014	100.23%	0.039	0.040	-
WLAN 802.11ac(160M) 5.6G	Main	Right Edge	0	114	5570	14.50	14.49	1.014	100.23%	0.799	0.812	018
Repeated	Main	Right Edge	0	114	5570	14.50	14.49	1.014	100.23%	0.788	0.801	-
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 802.11n(40M) 5.8G	Main	Back Surface	0	159	5795	15.00	14.99	1.023	100.23%	0.235	0.241	-
WLAN 802.11n(40M) 5.8G	Main	Top Edge	0	159	5795	15.00	14.99	1.023	100.23%	0.051	0.052	-
WLAN 802.11n(40M) 5.8G	Main	Right Edge	0	151	5755	15.00	14.97	1.023	100.69%	0.885	0.912	-
WLAN 802.11n(40M) 5.8G	Main	Right Edge	0	159	5795	15.00	14.99	1.023	100.23%	0.887	0.909	019
Repeated	Main	Right Edge	0	159	5795	15.00	14.99	1.023	100.23%	0.865	0.887	-
WLAN 802.11ac(80M) 5.8G	Main	Back Surface	0	155	5775	15.00	14.99	1.022	100.23%	0.279	0.286	-
WLAN 802.11ac(80M) 5.8G	Main	Top Edge	0	155	5775	15.00	14.99	1.022	100.23%	0.055	0.056	-
WLAN 802.11ac(80M) 5.8G	Main	Right Edge	0	155	5775	15.00	14.99	1.022	100.23%	0.887	0.909	020
Repeated	Main	Right Edge	0	155	5775	15.00	14.99	1.022	100.23%	0.856	0.877	-

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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 802.11b	Aux	Back Surface	0	11	2462	18.00	17.99	1.011	100.23%	0.130	0.132	-
WLAN 802.11b	Aux	Top Edge	0	11	2462	18.00	17.99	1.011	100.23%	0.001	0.001	-
WLAN 802.11b	Aux	Left Edge	0	1	2412	18.00	17.98	1.011	100.46%	0.926	0.941	-
WLAN 802.11b	Aux	Left Edge	0	6	2437	18.00	17.98	1.011	100.46%	0.964	0.979	-
WLAN 802.11b	Aux	Left Edge	0	11	2462	18.00	17.99	1.011	100.23%	1.020	1.034	021
Repeated		Left Edge	0	11	2462	18.00	17.99	1.011	100.23%	0.983	0.996	
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	
Bluetooth(GFSK)	Aux	Back Surface	0	78	2480	10.50	10.22	1.302	106.66%	0.001	0.001	-
Bluetooth(GFSK)	Aux	Top Edge	0	78	2480	10.50	10.22	1.302	106.66%	0.001	0.001	-
Bluetooth(GFSK)	Aux	Left Edge	0	78	2480	10.50	10.22	1.302	106.66%	0.146	0.203	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
										Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Aux	Back Surface	0	42	5210	14.00	13.98	1.022	100.46%	0.111	0.114	-
WLAN 802.11ac(80M) 5.2G	Aux	Top Edge	0	42	5210	14.00	13.98	1.022	100.46%	0.018	0.018	-
WLAN 802.11ac(80M) 5.2G	Aux	Left Edge	0	42	5210	14.00	13.98	1.022	100.46%	0.884	0.908	023
Repeated		Left Edge	0	42	5210	14.00	13.98	1.022	100.46%	0.862	0.885	
WLAN 802.11ac(160M) 5.2G	Aux	Back Surface	0	50	5250	14.00	13.99	1.014	100.23%	0.171	0.174	-
WLAN 802.11ac(160M) 5.2G	Aux	Top Edge	0	50	5250	14.00	13.99	1.014	100.23%	0.026	0.026	-
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge	0	50	5250	14.00	13.99	1.014	100.23%	0.931	0.946	024
Repeated		Left Edge	0	50	5250	14.00	13.99	1.014	100.23%	0.905	0.920	
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) 5.3G	Aux	Back Surface	0	58	5290	13.50	13.43	1.022	101.62%	0.149	0.155	-
WLAN 802.11ac(80M) 5.3G	Aux	Top Edge	0	58	5290	13.50	13.43	1.022	101.62%	0.043	0.045	-
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge	0	58	5290	13.50	13.43	1.022	101.62%	0.762	0.791	025
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Aux	Back Surface	0	138	5690	15.00	14.99	1.022	100.23%	0.212	0.217	-
WLAN 802.11ac(80M) 5.6G	Aux	Top Edge	0	138	5690	15.00	14.99	1.022	100.23%	0.032	0.033	-
WLAN 802.11ac(80M) 5.6G	Aux	Left Edge	0	106	5530	15.00	14.98	1.022	100.46%	0.832	0.854	026
WLAN 802.11ac(80M) 5.6G	Aux	Left Edge	0	138	5690	15.00	14.99	1.022	100.23%	0.783	0.802	-
Repeated		Left Edge	0	106	5530	15.00	14.98	1.022	100.46%	0.798	0.819	
WLAN 802.11ac(160M) 5.6G	Aux	Back Surface	0	114	5570	15.00	14.93	1.014	101.62%	0.268	0.276	-
WLAN 802.11ac(160M) 5.6G	Aux	Top Edge	0	114	5570	15.00	14.93	1.014	101.62%	0.037	0.038	-
WLAN 802.11ac(160M) 5.6G	Aux	Left Edge	0	114	5570	15.00	14.93	1.014	101.62%	0.836	0.861	027
Repeated	Aux	Left Edge	0	114	5570	15.00	14.93	1.014	101.62%	0.803	0.827	
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	Aux	Back Surface	0	155	5775	14.50	14.49	1.022	100.23%	0.235	0.241	-
WLAN 802.11ac(80M) 5.8G	Aux	Top Edge	0	155	5775	14.50	14.49	1.022	100.23%	0.038	0.039	-
WLAN 802.11ac(80M) 5.8G	Aux	Left Edge	0	155	5775	14.50	14.49	1.022	100.23%	0.743	0.761	028

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

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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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Main	Bottom Surface	0	15	6025	13.50	13.44	1.016	101.39%	0.115	0.118	1.040	1.071	029
U-NII-5 6.2GHz802.11ax(160M)	Main	Bottom Surface	0	47	6185	13.50	13.48	1.016	100.46%	0.107	0.109	0.950	0.970	030
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-6 6.5GHz802.11ax(160M)	Main	Bottom Surface	0	111	6505	13.50	13.47	1.016	100.69%	0.123	0.126	1.090	1.115	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)		Estimated APD W/m ² (4cm ²)		ID
U-NII-7 6.7GHz802.11ax(160M)	Main	Bottom Surface	0	143	6665	13.50	13.48	1.016	100.46%	0.201	0.205	1.830	1.868	032
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-8 7.0GHz 802.11ax (160M)	Main	Bottom Surface	0	207	6985	13.50	13.48	1.011	100.46%	0.156	0.158	1.380	1.402	033
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	15	6025	13.50	13.49	1.016	100.23%	0.066	0.067	0.614	0.625	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	79	6345	13.50	13.48	1.016	100.46%	0.082	0.084	0.753	0.769	034
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-6 6.5GHz802.11ax(160M)	Aux	Bottom Surface	0	111	6505	13.50	13.49	1.016	100.23%	0.092	0.094	0.812	0.827	035
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-7 6.7GHz802.11ax(160M)	Aux	Bottom Surface	0	175	6825	13.50	13.49	1.016	100.23%	0.107	0.109	0.928	0.945	036
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 APD W/m ² (4cm ²)		ID
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Bottom Surface	0	207	6985	13.50	13.47	1.011	100.69%	0.085	0.087	0.646	0.658	037

Tablet Mode

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 APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Main	Back Surface	0	15	6025	13.00	12.93	1.02	101.62%	0.159	0.164	1.191	1.230	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Back Surface	0	47	6185	13.00	12.97	1.016	100.69%	0.166	0.170	1.240	1.269	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Back Surface	0	79	6345	13.00	12.98	1.016	100.46%	0.171	0.175	1.290	1.317	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Top Edge	0	15	6025	13.00	12.93	1.016	101.62%	0.026	0.027	0.193	0.199	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Top Edge	0	47	6185	13.00	12.97	1.016	100.69%	0.031	0.032	0.231	0.236	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Top Edge	0	79	6345	13.00	12.98	1.016	100.46%	0.028	0.029	0.210	0.214	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Right Edge	0	15	6025	13.00	12.93	1.016	101.62%	0.578	0.597	4.635	4.786	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Right Edge	0	47	6185	13.00	12.97	1.016	100.69%	0.591	0.605	4.740	4.849	038
U-NII-5 6.2GHz802.11ax(160M)	Main	Right Edge	0	79	6345	13.00	12.98	1.016	100.46%	0.646	0.659	4.870	4.971	039
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
U-NII-6 6.5GHz802.11ax(160M)	Main	Back Surface	0	111	6505	13.00	12.99	1.016	100.23%	0.159	0.162	1.150	1.171	-
U-NII-6 6.5GHz802.11ax(160M)	Main	Top Edge	0	111	6505	13.00	12.99	1.016	100.23%	0.051	0.052	0.370	0.377	-
U-NII-6 6.5GHz802.11ax(160M)	Main	Right Edge	0	111	6505	13.00	12.99	1.016	100.23%	0.748	0.762	5.440	5.540	040
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 APD W/m ² (4cm ²)		ID
U-NII-7 6.7GHz802.11ax(160M)	Main	Back Surface	0	143	6665	13.00	12.99	1.016	100.23%	0.167	0.170	1.200	1.222	-
U-NII-7 6.7GHz802.11ax(160M)	Main	Top Edge	0	143	6665	13.00	12.99	1.016	100.23%	0.038	0.039	0.274	0.279	-
U-NII-7 6.7GHz802.11ax(160M)	Main	Right Edge	0	143	6665	13.00	12.99	1.016	100.23%	0.772	0.786	5.560	5.662	041
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 APD W/m ² (4cm ²)		ID
U-NII-8 7.0GHz 802.11ax (160M)	Main	Back Surface	0	207	6985	13.00	12.99	1.011	100.23%	0.175	0.177	1.309	1.326	-
U-NII-8 7.0GHz 802.11ax (160M)	Main	Top Edge	0	207	6985	13.00	12.99	1.011	100.23%	0.043	0.044	0.322	0.326	-
U-NII-8 7.0GHz 802.11ax (160M)	Main	Right Edge	0	207	6985	13.00	12.99	1.011	100.23%	0.684	0.693	5.120	5.188	042

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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)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Aux	Back Surface	0	15	6025	12.50	12.49	1.016	100.23%	0.141	0.144	1.109	1.129	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Back Surface	0	47	6185	12.50	12.47	1.016	100.69%	0.137	0.140	1.077	1.102	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Top Edge	0	15	6025	12.50	12.49	1.016	100.23%	0.021	0.021	0.165	0.168	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Top Edge	0	47	6185	12.50	12.47	1.016	100.69%	0.031	0.032	0.243	0.249	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Left Edge	0	15	6025	12.50	12.49	1.016	100.23%	0.519	0.529	3.950	4.022	043
U-NII-5 6.2GHz802.11ax(160M)	Aux	Left Edge	0	47	6185	12.50	12.47	1.016	100.69%	0.529	0.541	4.160	4.256	044
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 APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz802.11ax(160M)	Aux	Back Surface	0	111	6505	12.50	12.49	1.016	100.23%	0.172	0.175	1.258	1.281	-
U-NII-6 6.5GHz802.11ax(160M)	Aux	Top Edge	0	111	6505	12.50	12.49	1.016	100.23%	0.057	0.058	0.417	0.425	-
U-NII-6 6.5GHz802.11ax(160M)	Aux	Left Edge	0	111	6505	12.50	12.49	1.016	100.23%	0.614	0.625	4.490	4.572	045
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 APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz802.11ax(160M)	Aux	Back Surface	0	175	6825	12.50	12.49	1.016	100.23%	0.161	0.164	1.149	1.170	-
U-NII-7 6.7GHz802.11ax(160M)	Aux	Top Edge	0	175	6825	12.50	12.49	1.016	100.23%	0.053	0.054	0.378	0.385	-
U-NII-7 6.7GHz802.11ax(160M)	Aux	Left Edge	0	175	6825	12.50	12.49	1.016	100.23%	0.678	0.690	4.840	4.929	046
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 APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Back Surface	0	207	6985	12.50	12.41	1.011	102.09%	0.155	0.160	1.124	1.160	-
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Top Edge	0	207	6985	12.50	12.41	1.011	102.09%	0.028	0.029	0.203	0.210	-
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Left Edge	0	207	6985	12.50	12.41	1.011	102.09%	0.616	0.636	4.470	4.614	047

Note:

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

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

8.3 Summary of PD Results

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 ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Main	Right Edge	2	15	6025	13.00	12.93	101.62%	1.016	1.55	4.960	7.938	2.680	4.289	048
	Main	Right Edge	2	47	6185	13.00	12.97	100.69%	1.016	1.55	5.420	8.595	2.660	4.218	049
WLAN 6E 802.11ax(160M) U-NII-6	Main	Right Edge	2	111	6505	13.00	12.99	100.23%	1.016	1.55	4.840	7.640	3.200	5.051	050
WLAN 6E 802.11ax(160M) U-NII-7	Main	Right Edge	2	143	6665	13.00	12.99	100.23%	1.016	1.55	5.980	9.439	3.880	6.124	051
WLAN 6E 802.11ax(160M) U-NII-8	Main	Right Edge	2	207	6985	13.00	12.99	100.23%	1.016	1.55	3.310	5.225	1.800	2.841	052
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 ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Aux	Left Edge	2	15	6025	12.50	12.49	100.23%	1.016	1.55	5.510	8.697	2.800	4.420	053
	Aux	Left Edge	2	79	6345	12.50	12.41	102.09%	1.016	1.55	4.390	7.058	2.580	4.116	054
WLAN 6E 802.11ax(160M) U-NII-6	Aux	Left Edge	2	111	6505	12.50	12.49	100.23%	1.016	1.55	4.020	6.345	2.580	4.072	055
WLAN 6E 802.11ax(160M) U-NII-7	Aux	Left Edge	2	175	6825	12.50	12.49	100.23%	1.016	1.55	2.960	4.672	1.810	2.857	056
WLAN 6E 802.11ax(160M) U-NII-8	Aux	Left Edge	2	207	6985	12.50	12.41	102.09%	1.016	1.55	5.240	8.425	3.350	5.386	057

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.

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9 SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Main + BT Aux	Yes
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes
WLAN 6GHz Main + BT Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux	Yes

Note:

1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with or less than that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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9.2 Estimated SAR calculation

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

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

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 ≤ 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.

Simultaneous Transmission Combination

Exposure Position		FCC Reported SAR							Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
		2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	7+8	8+9	7+8+9
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.189	0.145	0.733	0.561	0.022	0.205	0.109	0.211	0.334	0.755	1.294	1.316	0.227	0.314	0.336
Back Surface	0	0.250	0.132	0.290	0.276	0.001	0.177	0.175	0.251	0.382	0.291	0.566	0.567	0.178	0.352	0.353
Top Edge	0	0.001	0.001	0.056	0.045	0.001	0.052	0.058	0.002	0.002	0.057	0.101	0.102	0.053	0.110	0.111
Left Edge	0	-	1.034	-	0.946	0.203	-	0.690	0.203	1.034	0.203	0.946	1.149	0.203	0.690	0.893
Right Edge	0	0.850	-	1.182	-	-	0.786	-	0.850	0.850	1.182	1.182	1.182	0.786	0.786	0.786

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	1751	Oct/10/2022	Oct/09/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/21/2022	Mar/20/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar/02/2022	Mar/01/2023
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9616	Mar/20/2022	Mar/19/2023
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
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	May/19/2022	May/18/2023
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 8 V16.0.2.83	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
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
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%	∞
Measurement drift (class A evaluation)	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%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	3.90%	N	1	1	0.64	0.43	2.50%	1.68%	M
Liquid Conductivity (mea.)	4.22%	N	1	1	0.6	0.49	2.53%	2.07%	M
Combined standard uncertainty		RSS					12.24%	12.01%	
Expan uncertainty (95% confidence interval), K=2							24.49%	24.01%	

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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	v_i , or V_{eff}
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	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	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	3.38%	N	1	1	0.64	0.43	2.16%	1.45%	M
Liquid Conductivity (mea.)	3.89%	N	1	1	0.6	0.49	2.33%	1.91%	M
Combined standard uncertainty		RSS					11.85%	11.66%	
Expan uncertainty (95% confidence interval), K=2							23.71%	23.31%	

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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) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling	0.076	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)
Uncertainty terms dependent on the measurement system						
Probe calibration	0.49	N	1	1	1	0.49
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00
Frequency response ($BW \leq 1\text{GHz}$)	0.20	R	$\sqrt{3}$	1.732	1	0.12
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00
Field impedance dependance	0.00	R	$\sqrt{3}$	1.732	1	0.00
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00
Data acquisition	0.03	N	1	1	1	0.03
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors						
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-
Combined Std. uncertainty						1.33
Expanded Std. uncertainty (95% confidence interval), K=2						2.67

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12 SAR MEASUREMENT RESULTS

ID: 001

Report No. : TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2412.0, 1	8.16	1.821	40.593

Hardware Setup

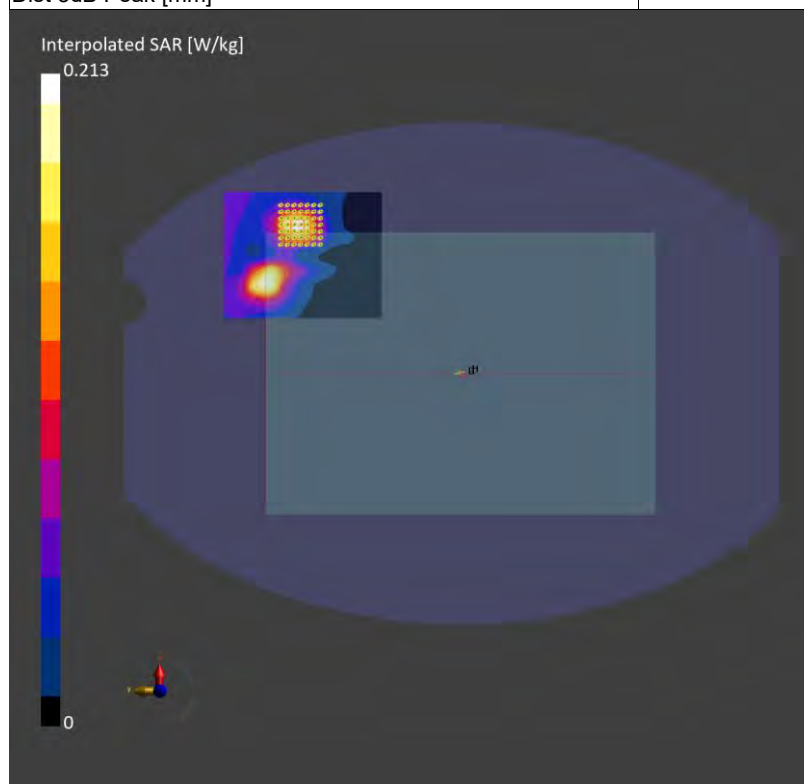
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	0.168	0.187
psSAR8g [W/kg]	0.091	0.101
psSAR10g [W/kg]	0.083	0.092
Power Drift [dB]	0.01	0.05
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		12.9



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ID: 002

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.883	37.276

Hardware Setup

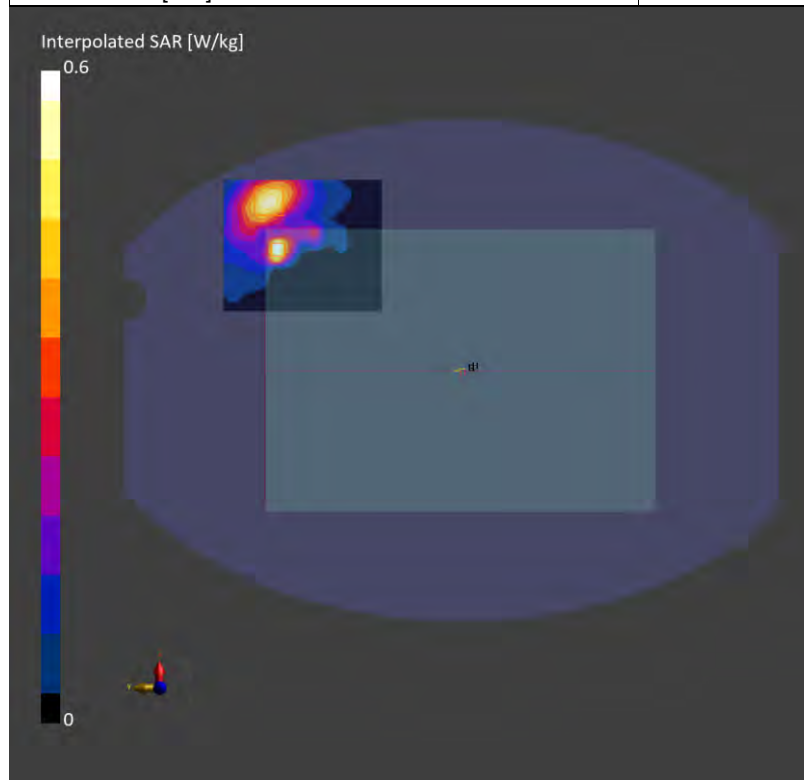
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.412	0.510
psSAR8g [W/kg]	0.190	0.199
psSAR10g [W/kg]	0.173	0.145
Power Drift [dB]	0.02	0.05
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		16.5



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ID: 003

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5270.0, 54	5.94	4.926	37.231

Hardware Setup

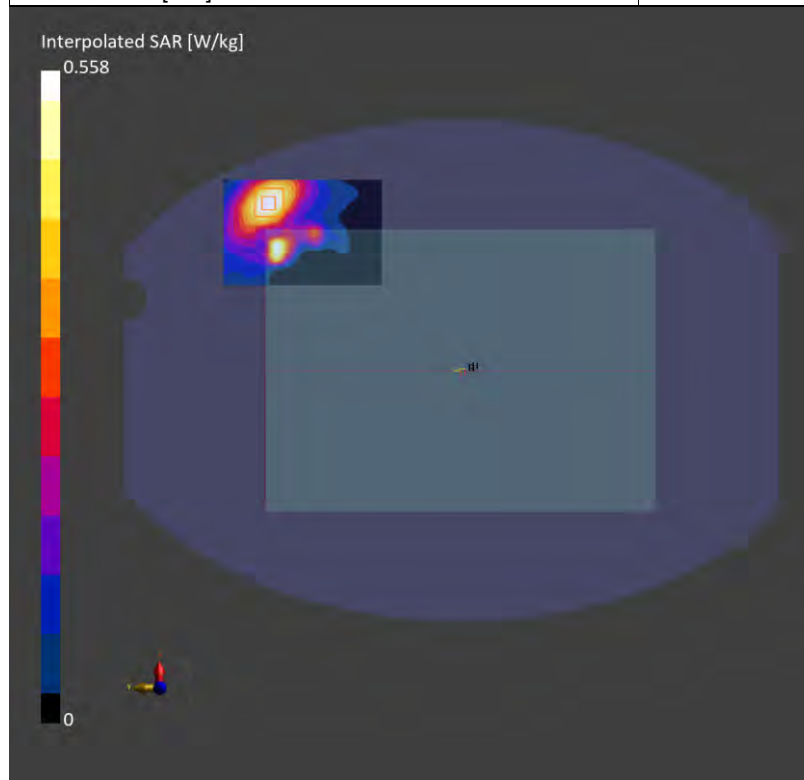
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.423	0.476
psSAR8g [W/kg]	0.203	0.155
psSAR10g [W/kg]	0.185	0.136
Power Drift [dB]	-0.06	0.03
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		13.9



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ID: 004

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5690.0, 138	5.45	5.373	36.751

Hardware Setup

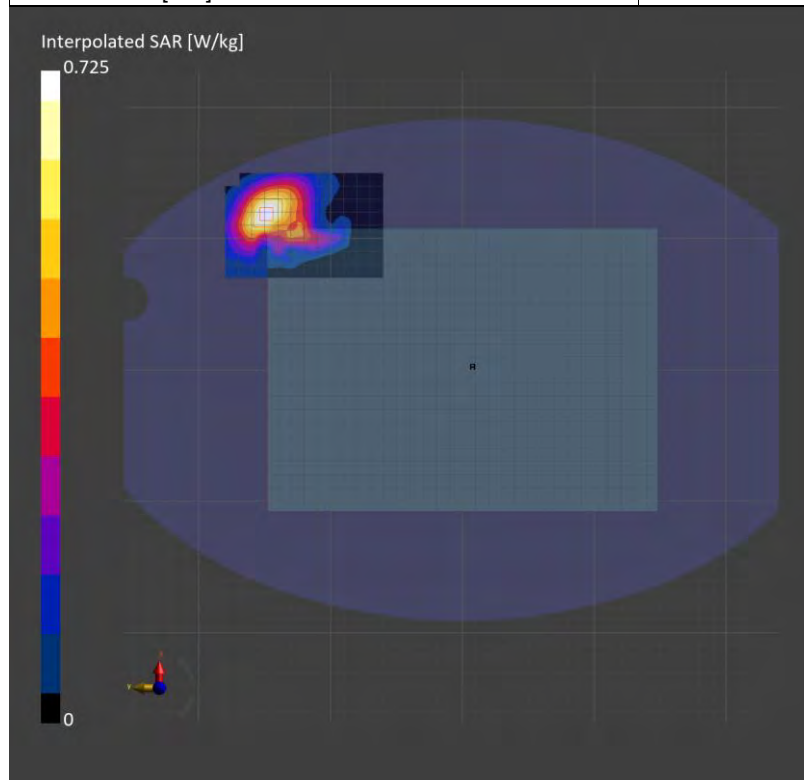
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.554	0.558
psSAR8g [W/kg]	0.260	0.271
psSAR10g [W/kg]	0.238	0.247
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		14.8



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ID: 005

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5775.0, 155	5.45	5.463	36.654

Hardware Setup

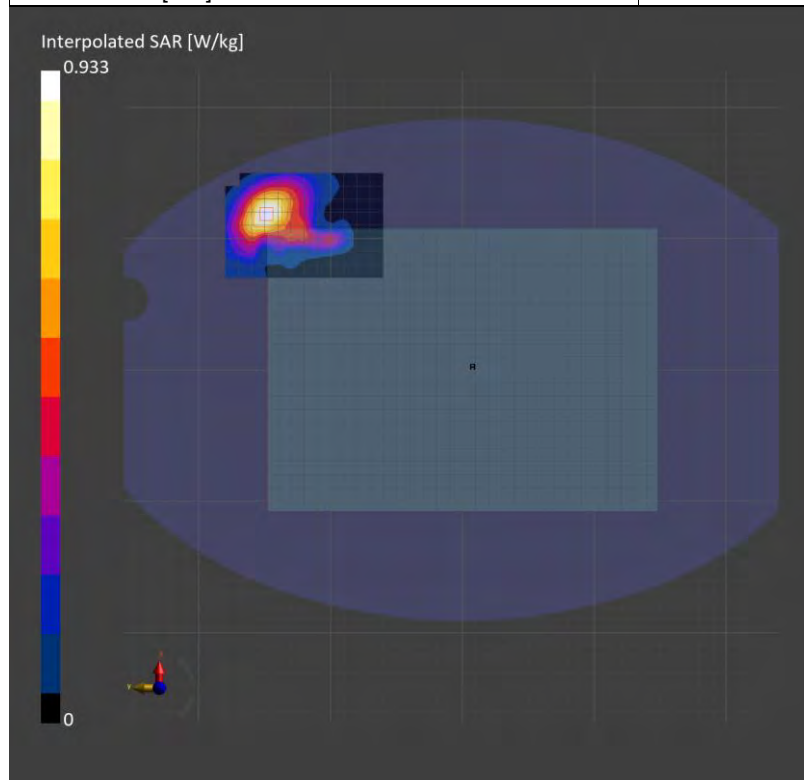
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.714	0.716
psSAR8g [W/kg]	0.332	0.343
psSAR10g [W/kg]	0.303	0.312
Power Drift [dB]	0.03	0.02
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		16.5



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ID: 006

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2462.0, 11	8.16	1.88	40.51

Hardware Setup

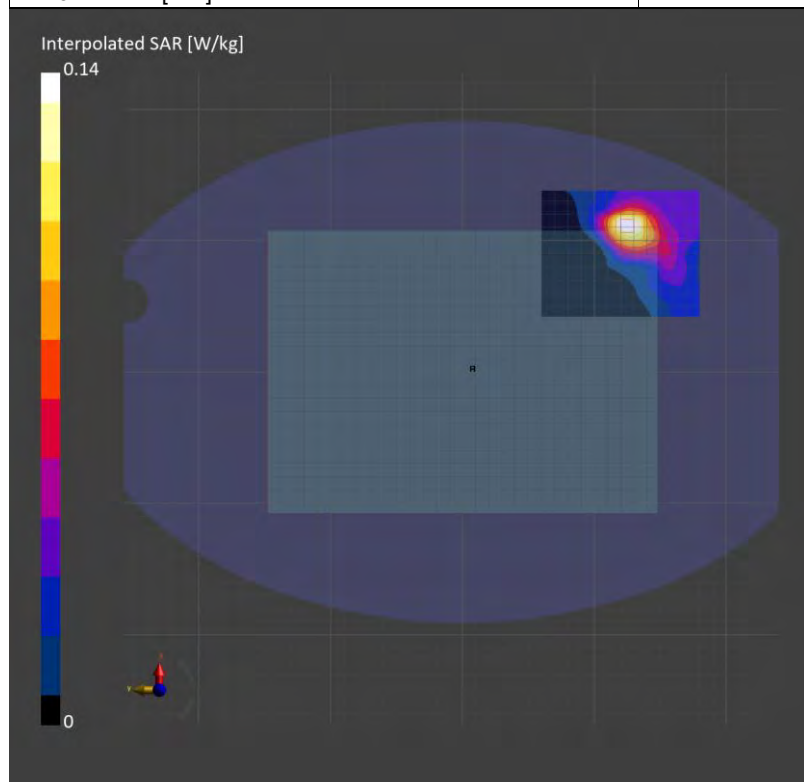
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	0.112	0.143
psSAR8g [W/kg]	0.064	0.080
psSAR10g [W/kg]	0.059	0.074
Power Drift [dB]	-0.03	0.04
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		13.5



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ID: 007

Report No. :TESA2211000463E5

Measurement Report for N20Q10, Bluetooth(GFSK)_Body_Bottom Edge_CH 78_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2480.0, 78	8.16	1.894	40.487

Hardware Setup

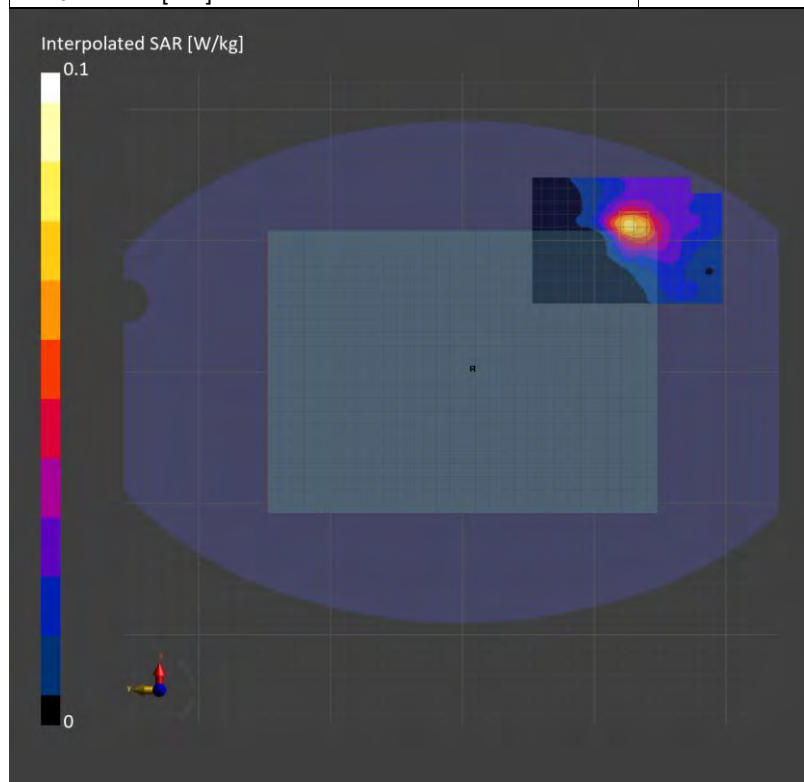
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-11
psSAR1g [W/kg]	0.015	0.016
psSAR8g [W/kg]	0.014	0.015
psSAR10g [W/kg]	0.008	0.007
Power Drift [dB]	-0.02	0.03
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		13.5



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ID: 008

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 11_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.883	37.276

Hardware Setup

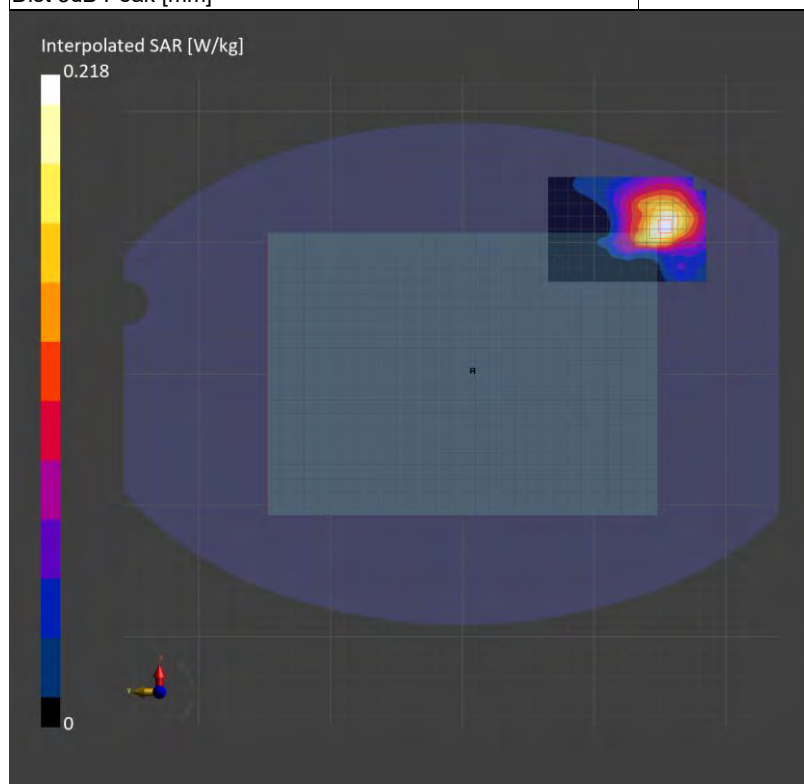
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.163	0.161
psSAR8g [W/kg]	0.079	0.080
psSAR10g [W/kg]	0.072	0.073
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		65.8
Dist 3dB Peak [mm]		14.4



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5270.0, 46	5.94	4.926	37.231

Hardware Setup

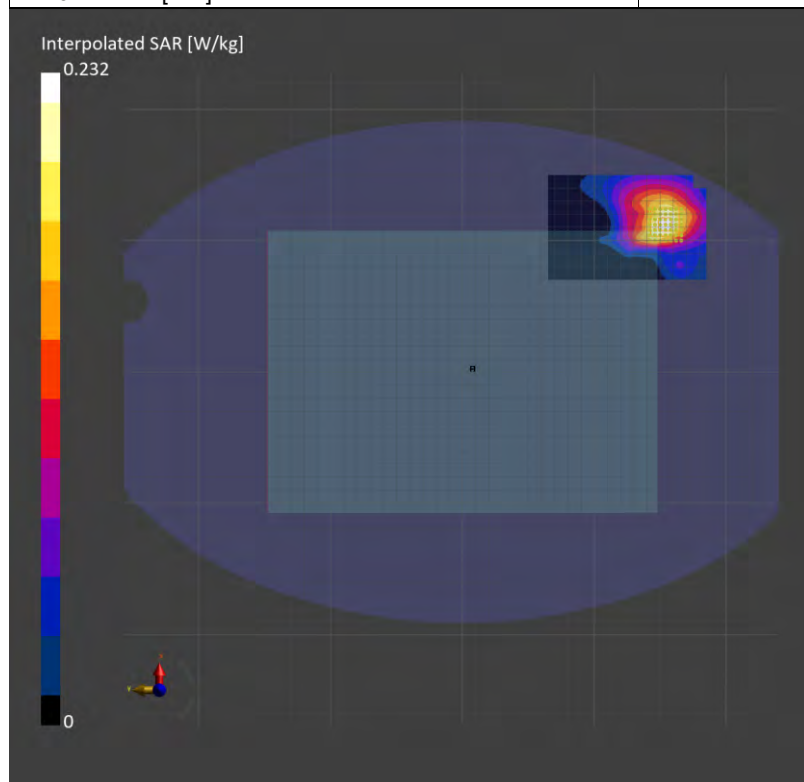
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.170	0.175
psSAR8g [W/kg]	0.081	0.086
psSAR10g [W/kg]	0.074	0.078
Power Drift [dB]	-0.04	0.05
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		13.6



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ID: 010

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5690.0, 46	5.45	5.373	36.751

Hardware Setup

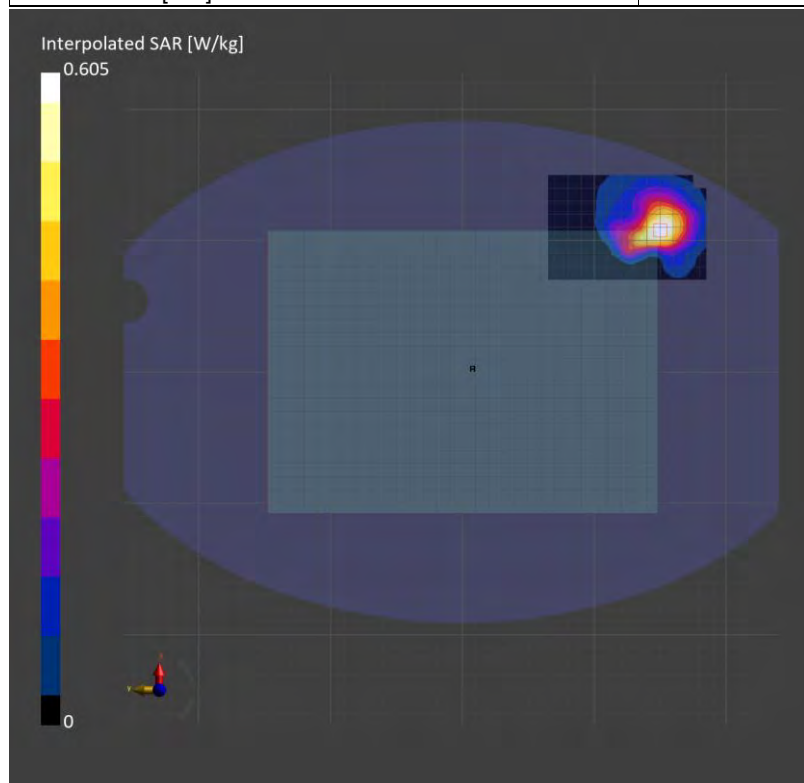
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-02-10	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.465	0.495
psSAR8g [W/kg]	0.215	0.233
psSAR10g [W/kg]	0.195	0.211
Power Drift [dB]	-0.05	0.06
M2/M1 [%]		60.3
Dist 3dB Peak [mm]		15.5



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ID: 011

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.8G_Body_Bottom Surface_CH 151_0mm_Aux

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5755.0, 151	5.45	5.442	36.676

Hardware Setup

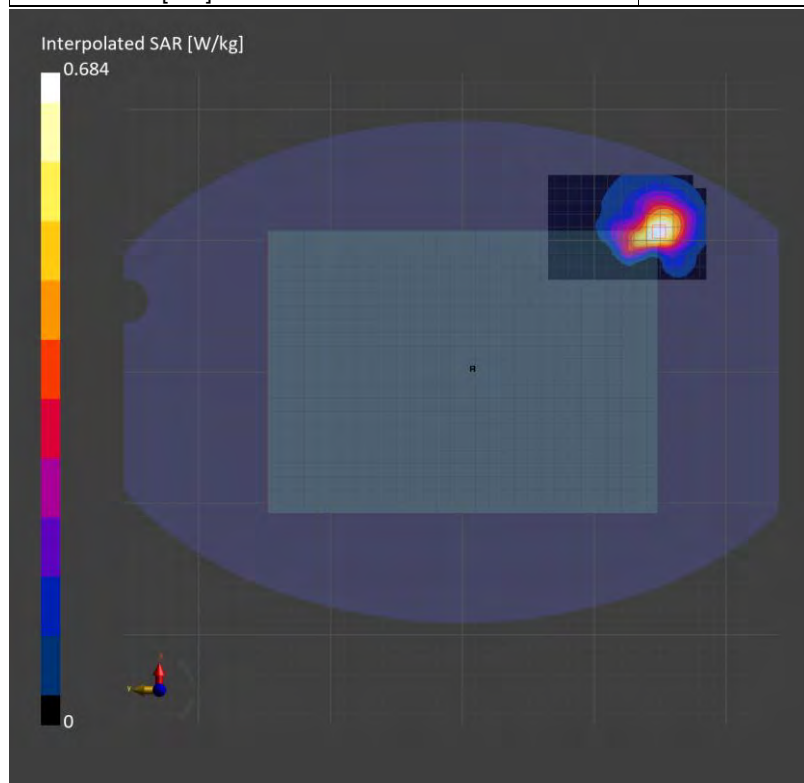
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 SN1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.527	0.547
psSAR8g [W/kg]	0.240	0.252
psSAR10g [W/kg]	0.217	0.228
Power Drift [dB]	-0.03	0.06
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		11.9



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ID: 012

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11b_Body_Right Edge_CH 11_0mm_Main

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C;

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	2462.0, 11	8.16	1.88	40.51

Hardware Setup

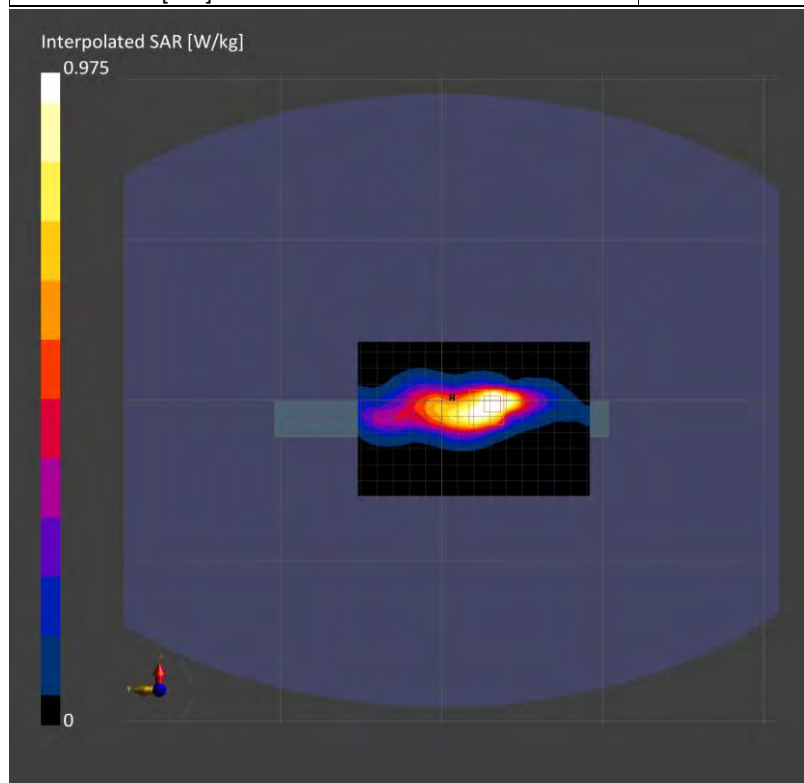
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	0.729	0.839
psSAR8g [W/kg]	0.380	0.400
psSAR10g [W/kg]	0.346	0.362
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		47.3
Dist 3dB Peak [mm]		13.3



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ID: 013

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.2G_Body_Right Edge_CH 42_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5210.0, 42	5.94	4.862	37.299

Hardware Setup

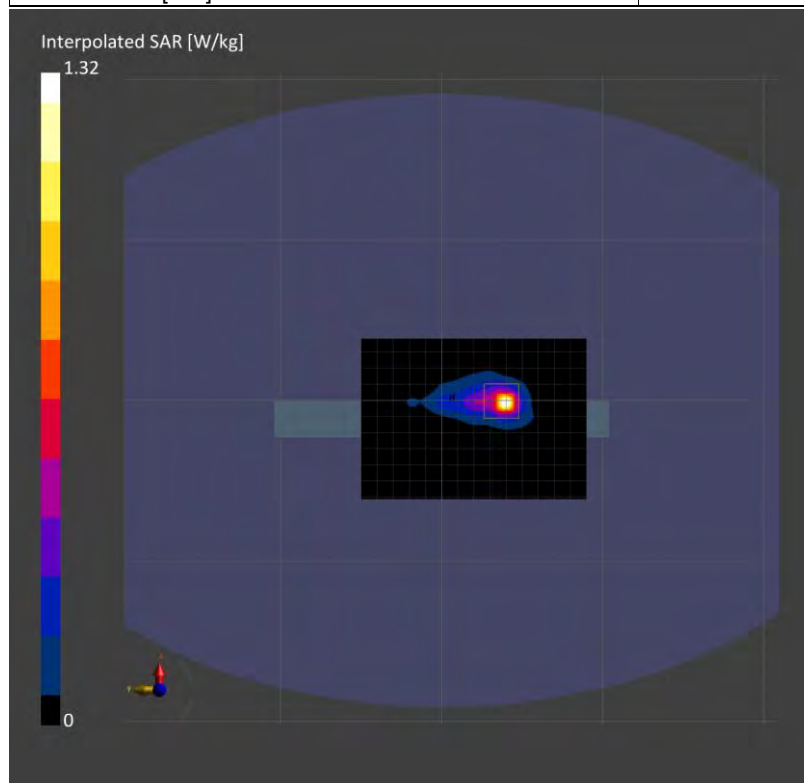
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.750	0.817
psSAR8g [W/kg]	0.242	0.259
psSAR10g [W/kg]	0.211	0.223
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		13.6



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ID: 014

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(160M) 5.2G_Body_Right Edge_CH 50_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5250.0, 50	5.94	4.904	37.254

Hardware Setup

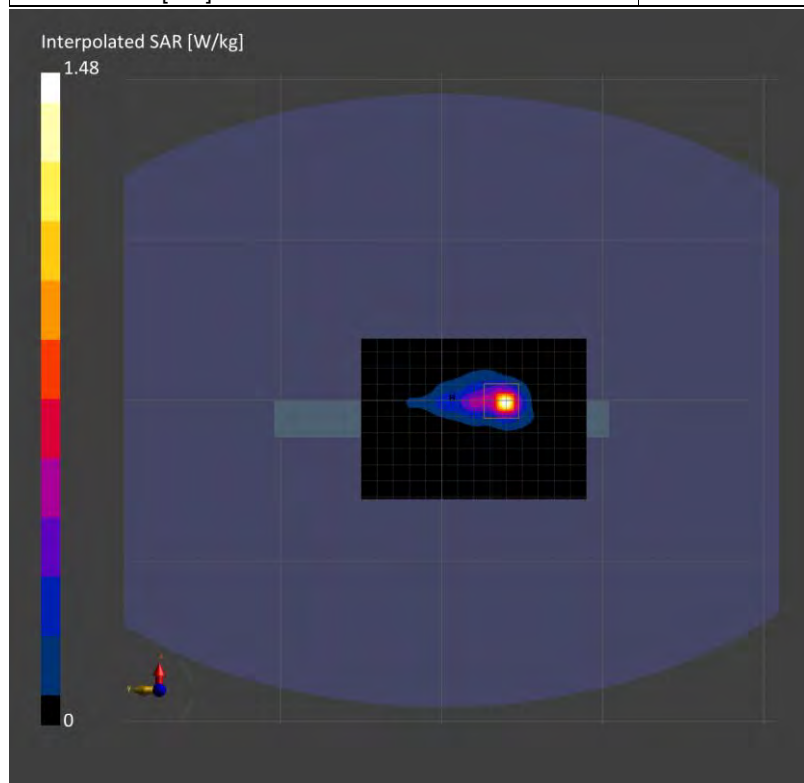
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.843	0.957
psSAR8g [W/kg]	0.274	0.305
psSAR10g [W/kg]	0.238	0.263
Power Drift [dB]	0.02	-0.01
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		15.7



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ID: 015

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.3G_Body_Right Edge_CH 62_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5310.0, 62	5.94	4.945	37.160

Hardware Setup

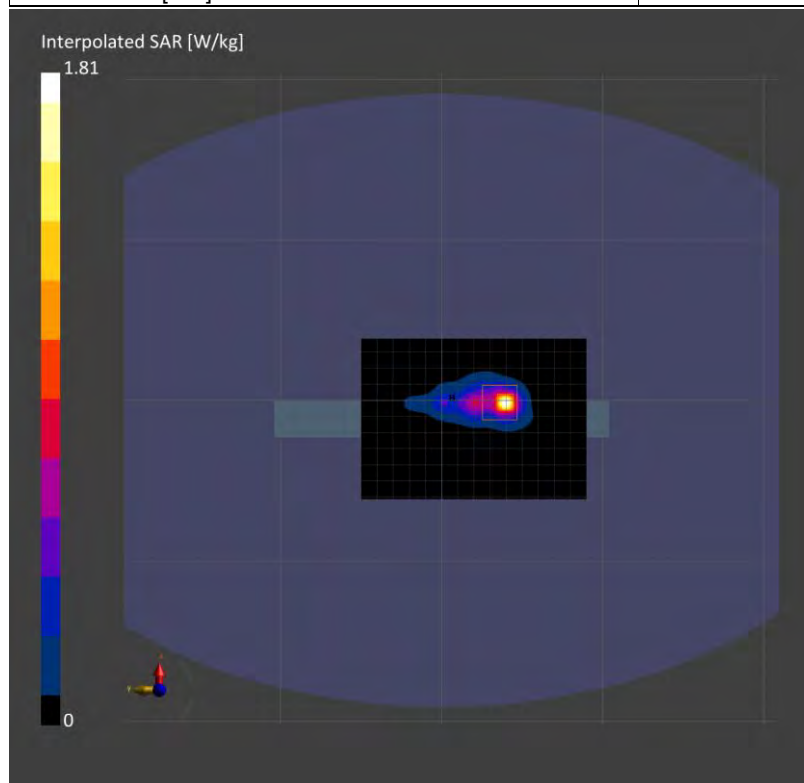
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	1.03	1.15
psSAR8g [W/kg]	0.335	0.368
psSAR10g [W/kg]	0.292	0.319
Power Drift [dB]	-0.05	-0.01
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		15.6



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ID: 016

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.3G_Body_Right Edge_CH 58_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5290.0, 58	5.94	4.947	37.208

Hardware Setup

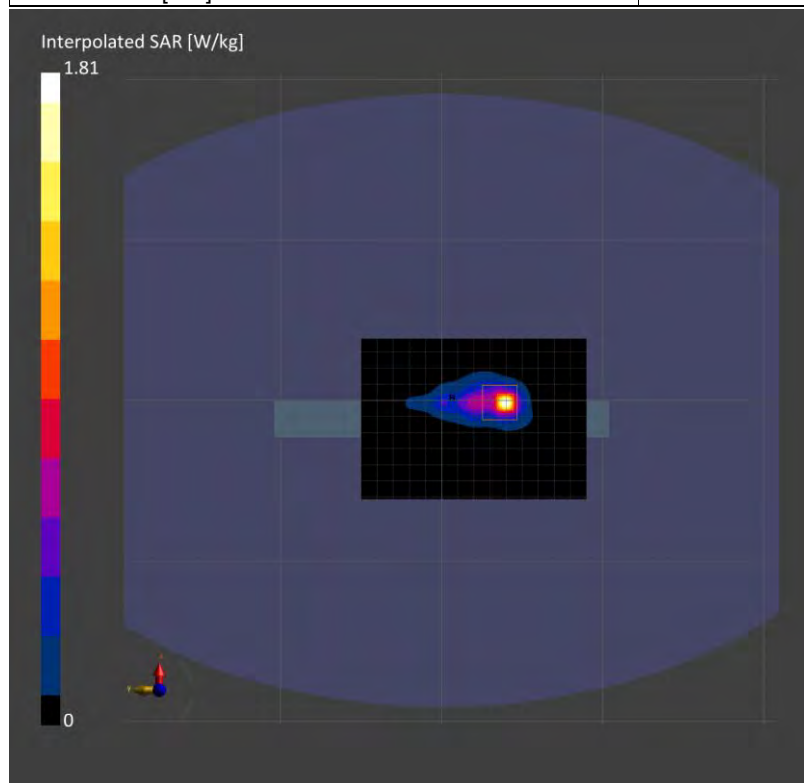
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	1.02	1.14
psSAR8g [W/kg]	0.330	0.360
psSAR10g [W/kg]	0.288	0.311
Power Drift [dB]	0.06	-0.05
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		15.6



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.6G_Body_Right Edge_CH 106_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5530.0, 106	5.29	5.203	36.934

Hardware Setup

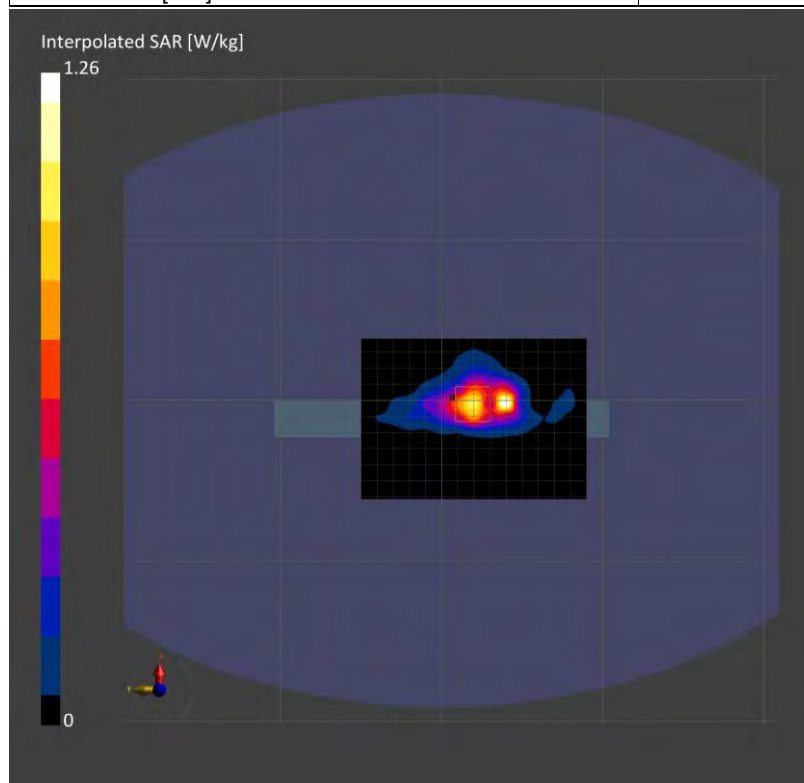
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.756	0.848
psSAR8g [W/kg]	0.307	0.322
psSAR10g [W/kg]	0.276	0.289
Power Drift [dB]	0.04	0.01
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		12.1



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(160M) 5.6G_Body_Right Edge_CH 106_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5570.0, 106	5.29	5.246	36.888

Hardware Setup

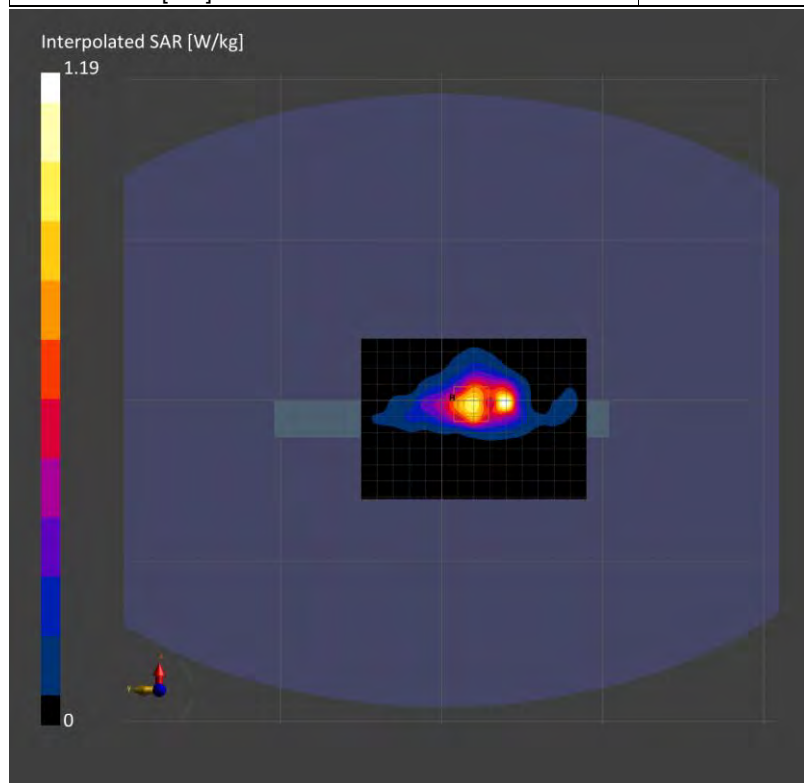
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.729	0.799
psSAR8g [W/kg]	0.310	0.323
psSAR10g [W/kg]	0.278	0.288
Power Drift [dB]	0.01	0.06
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		11.6



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ID: 019

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11n(40M) 5.8G_Body_Right Edge_CH 159_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5795.0, 159	5.45	5.484	36.631

Hardware Setup

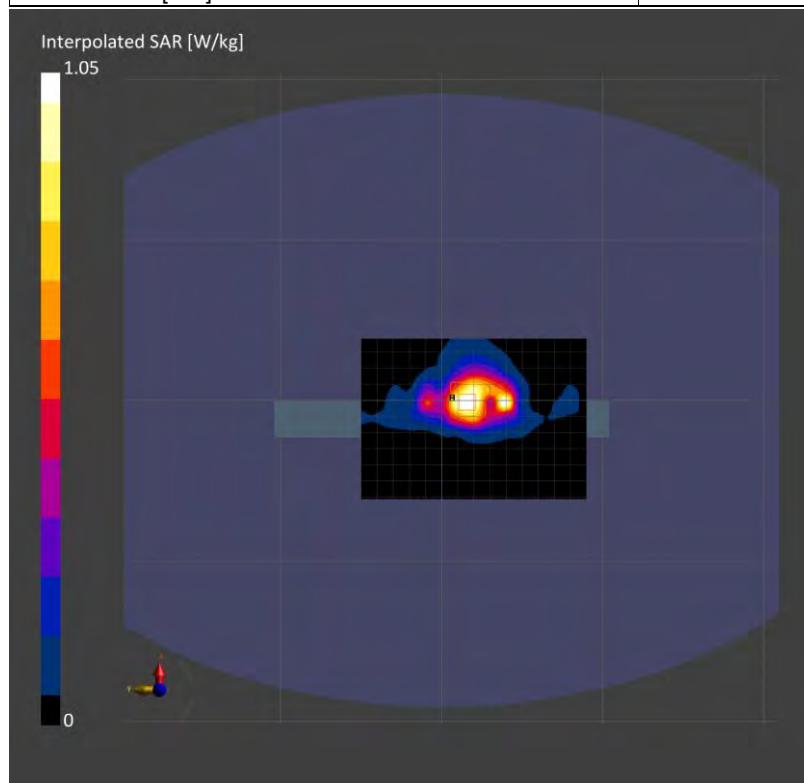
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.801	0.887
psSAR8g [W/kg]	0.344	0.332
psSAR10g [W/kg]	0.308	0.295
Power Drift [dB]	0.02	-0.01
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		18.9



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ID: 020

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.8G_Body_Right Edge_CH 155_0mm_Main

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5775.0, 155	5.45	5.463	36.654

Hardware Setup

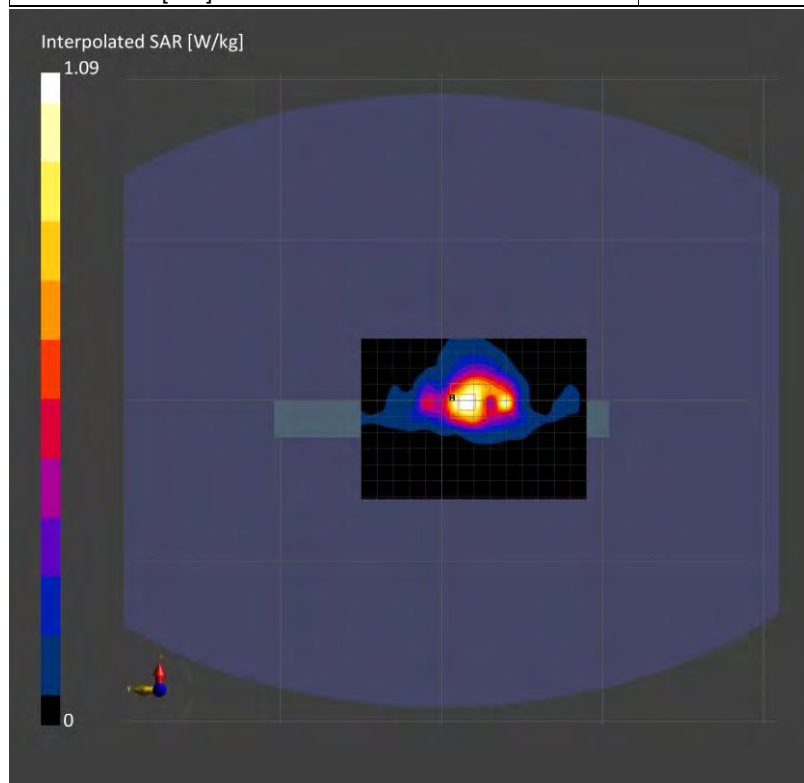
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.829	0.887
psSAR8g [W/kg]	0.352	0.343
psSAR10g [W/kg]	0.316	0.305
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		18.9



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ID: 021

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11b_Body_Right Left_CH 11_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C;

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	2462.0, 11	8.16	1.88	40.51

Hardware Setup

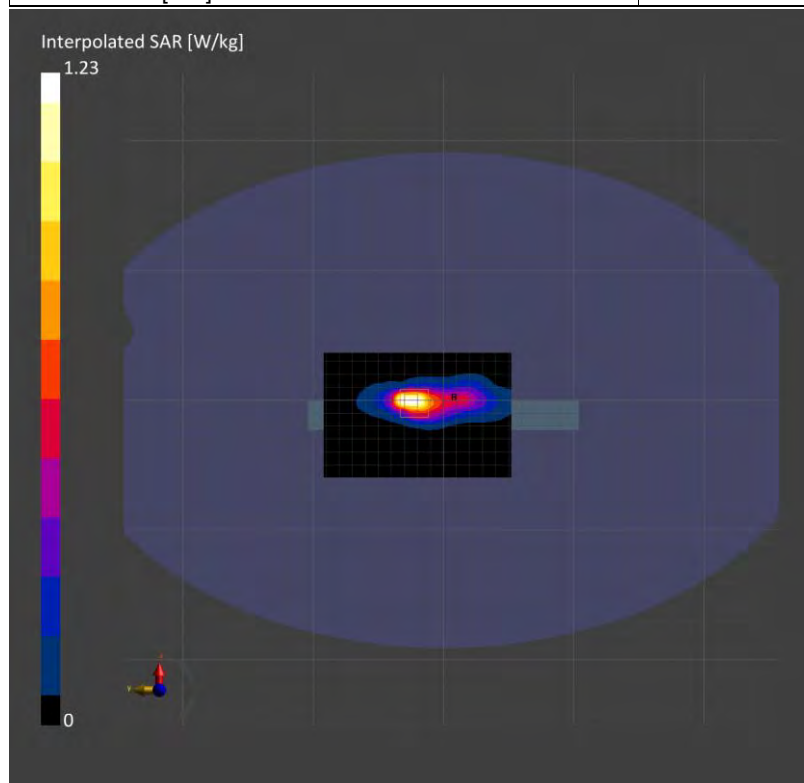
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	0.939	1.02
psSAR8g [W/kg]	0.468	0.471
psSAR10g [W/kg]	0.421	0.424
Power Drift [dB]	-0.03	-0.05
M2/M1 [%]		58.2
Dist 3dB Peak [mm]		16.0



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ID: 022

Report No. :TESA2211000463E5

Measurement Report for N20Q10, Bluetooth(GFSK)_Body_Left Edge_CH 78_0mm_Aux

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C;

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	2480.0, 78	8.16	1.894	40.487

Hardware Setup

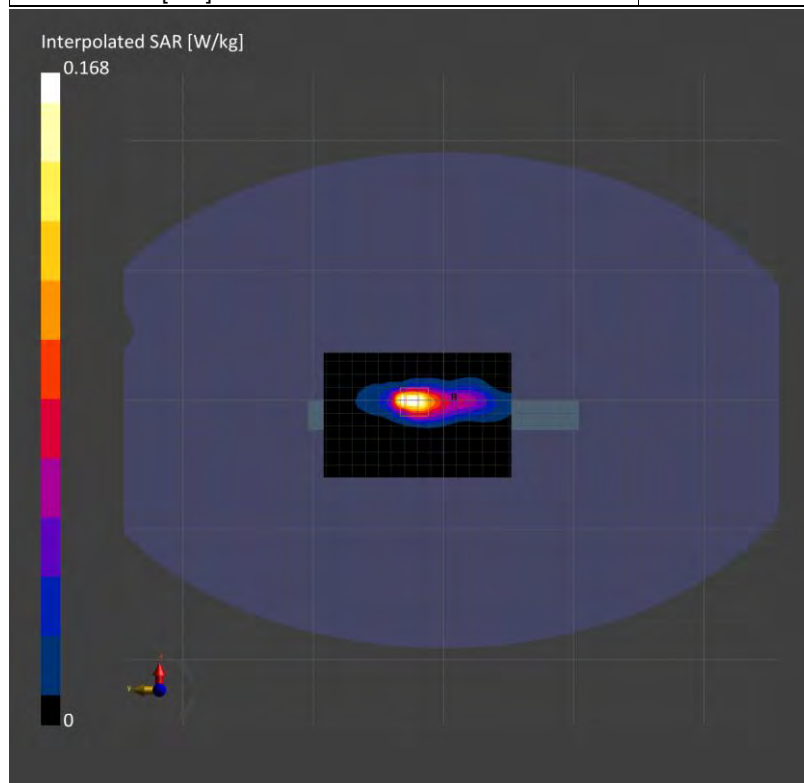
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	0.130	0.146
psSAR8g [W/kg]	0.065	0.066
psSAR10g [W/kg]	0.058	0.059
Power Drift [dB]	0.01	-0.04
M2/M1 [%]		58.3
Dist 3dB Peak [mm]		16.0



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ID: 023

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.2G_Body_Left Edge_CH 42_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5210.0, 42	5.94	4.862	37.299

Hardware Setup

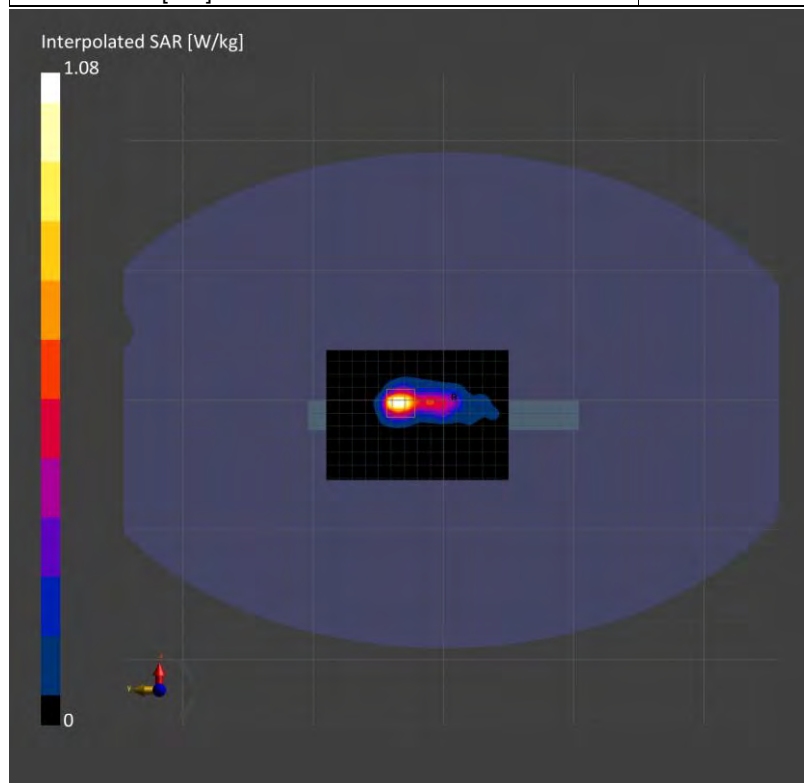
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.756	0.884
psSAR8g [W/kg]	0.281	0.292
psSAR10g [W/kg]	0.245	0.251
Power Drift [dB]	-0.10	-0.03
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		16.4



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(160M) 5.2G_Body_Left Edge_CH 50_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5250.0, 50	5.94	4.904	37.254

Hardware Setup

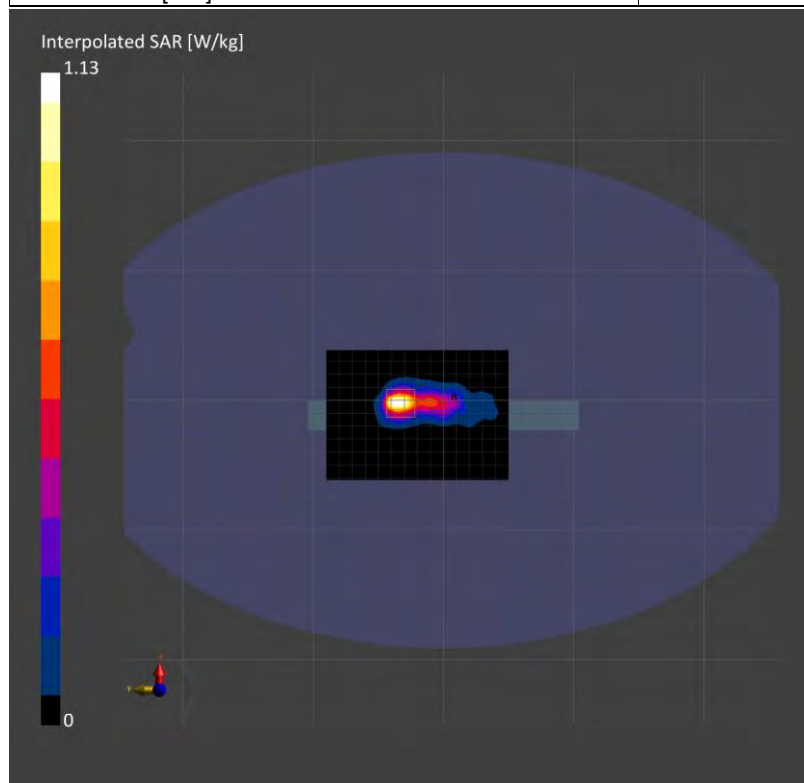
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.788	0.931
psSAR8g [W/kg]	0.296	0.310
psSAR10g [W/kg]	0.259	0.268
Power Drift [dB]	-0.05	-0.06
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		16.4



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.3G_Body_Left Edge_CH 58_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 20.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5290.0, 58	5.94	4.947	37.208

Hardware Setup

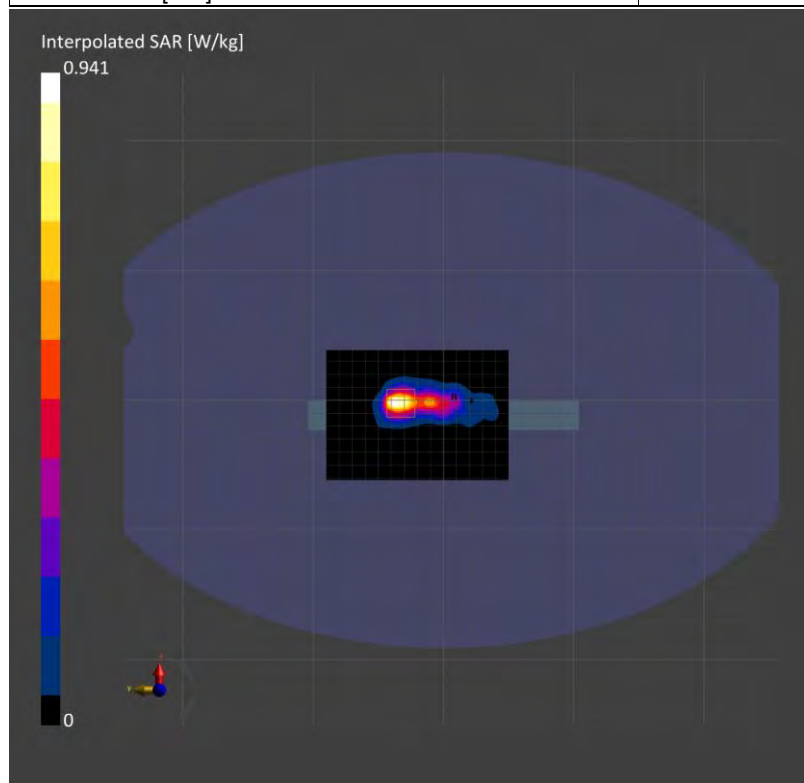
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	0.647	0.762
psSAR8g [W/kg]	0.246	0.176
psSAR10g [W/kg]	0.216	0.223
Power Drift [dB]	-0.02	-0.02
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		16.9



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.6G_Body_Left Edge_CH 106_0mm_Aux

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5530.0, 106	5.29	5.203	36.934

Hardware Setup

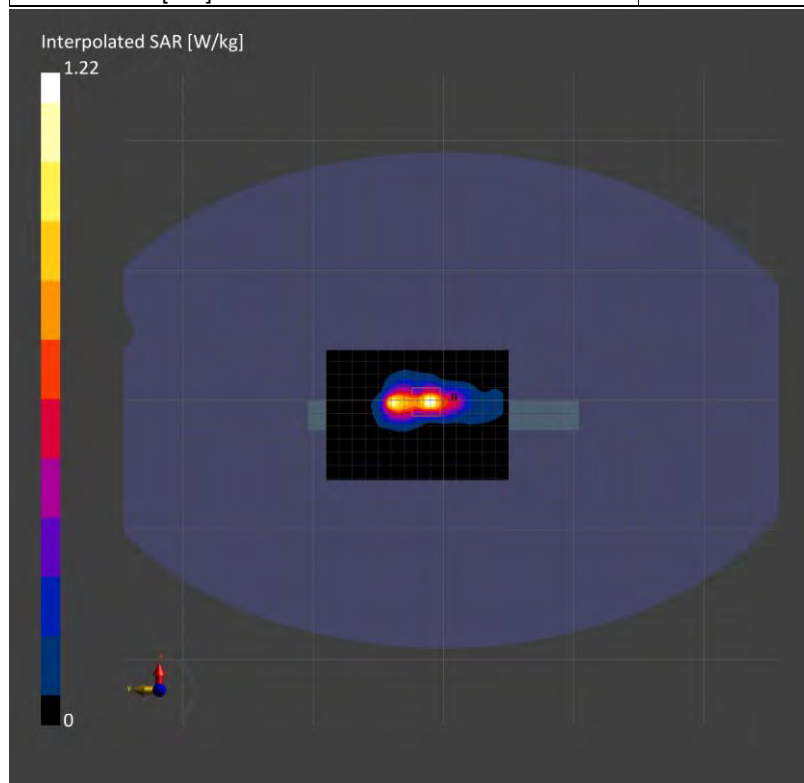
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.746	0.832
psSAR8g [W/kg]	0.281	0.279
psSAR10g [W/kg]	0.250	0.264
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		17.2



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(160M) 5.6G_Body_Left Edge_CH 114_0mm_Aux

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5570.0, 114	5.29	5.246	36.888

Hardware Setup

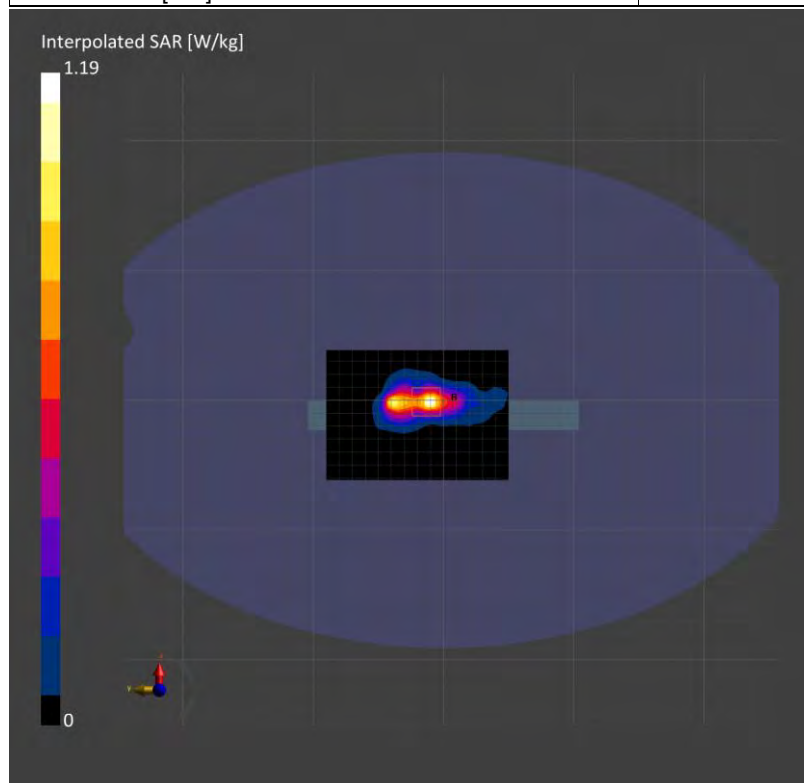
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.767	0.836
psSAR8g [W/kg]	0.285	0.276
psSAR10g [W/kg]	0.253	0.268
Power Drift [dB]	-0.02	0.02
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		16.8



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ID: 028

Report No. :TESA2211000463E5

Measurement Report for N20Q10, WLAN 802.11ac(80M) 5.8G_Body_Left Edge_CH 155_0mm_Aux

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5775.0, 155	5.45	5.463	36.654

Hardware Setup

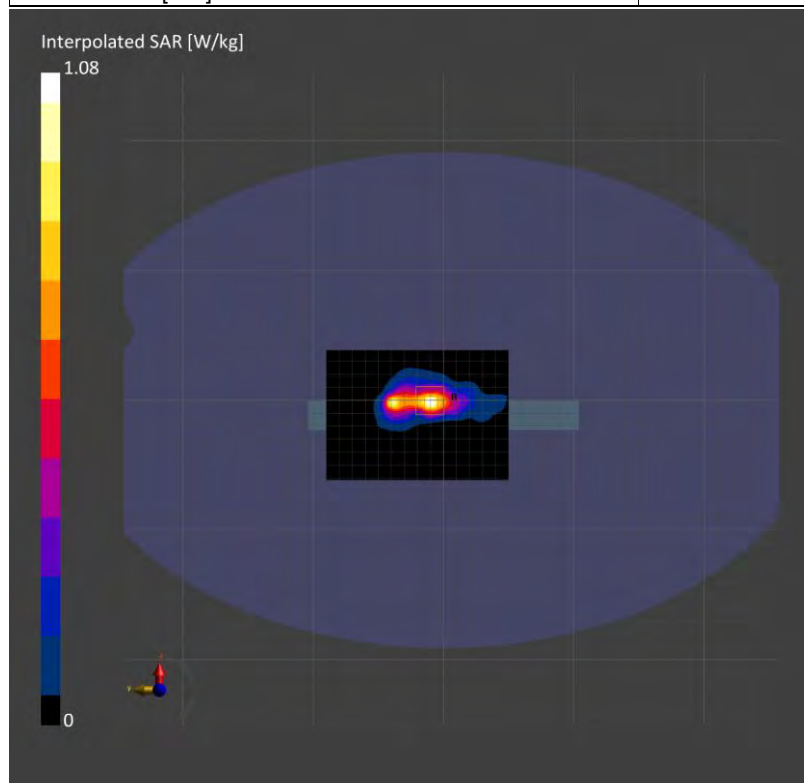
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	0.723	0.743
psSAR8g [W/kg]	0.273	0.226
psSAR10g [W/kg]	0.241	0.248
Power Drift [dB]	-0.02	0.04
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		16.4



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ID: 029

Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-5 6.2G 802.11ax(160M)_Body_Bottom Surface_CH 15_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.8	5.73	36.366

Hardware Setup

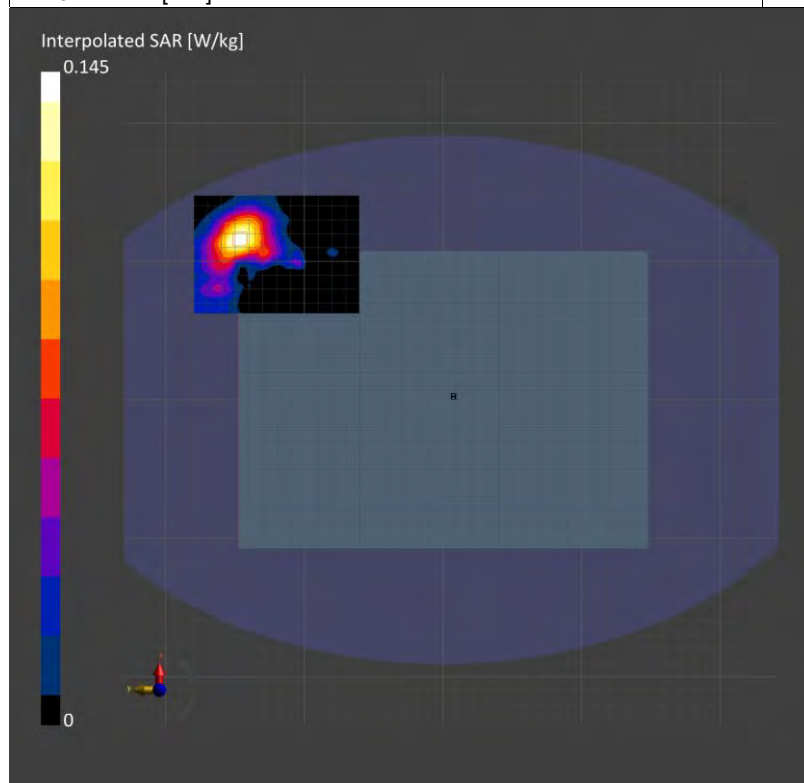
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 – SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.110	0.115
psSAR8g [W/kg]	0.049	0.052
psSAR10g [W/kg]	0.044	0.047
psPDab (4.0cm2, sq) [W/m2]		1.04
Power Drift [dB]	0.04	0.05
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		13.2



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Report No. : TESA2211000463E5

Measurement Report for N20Q10,U-NII-5 6.2G 802.11ax(160M)_Body_Bottom Surface_CH 47_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6185.0, 47	5.8	5.903	36.174

Hardware Setup

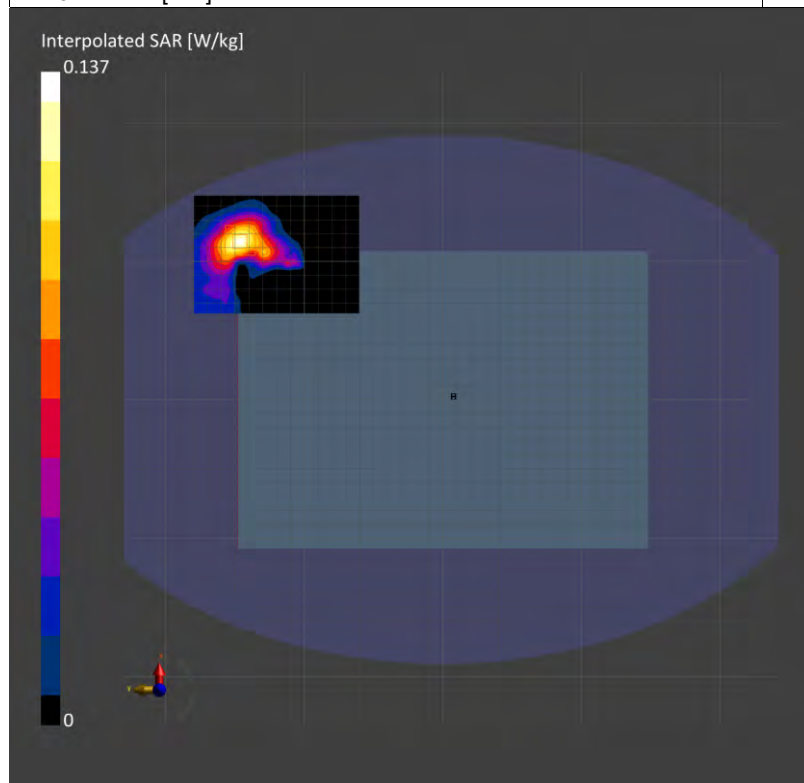
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.104	0.107
psSAR8g [W/kg]	0.046	0.047
psSAR10g [W/kg]	0.041	0.043
psPDab (4.0cm2, sq) [W/m2]		0.95
Power Drift [dB]	0.02	0.01
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		9.7



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Report No. : TESA2211000463E5

Measurement Report for N20Q10,U-NII-6 6.5G 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.8	6.251	35.79

Hardware Setup

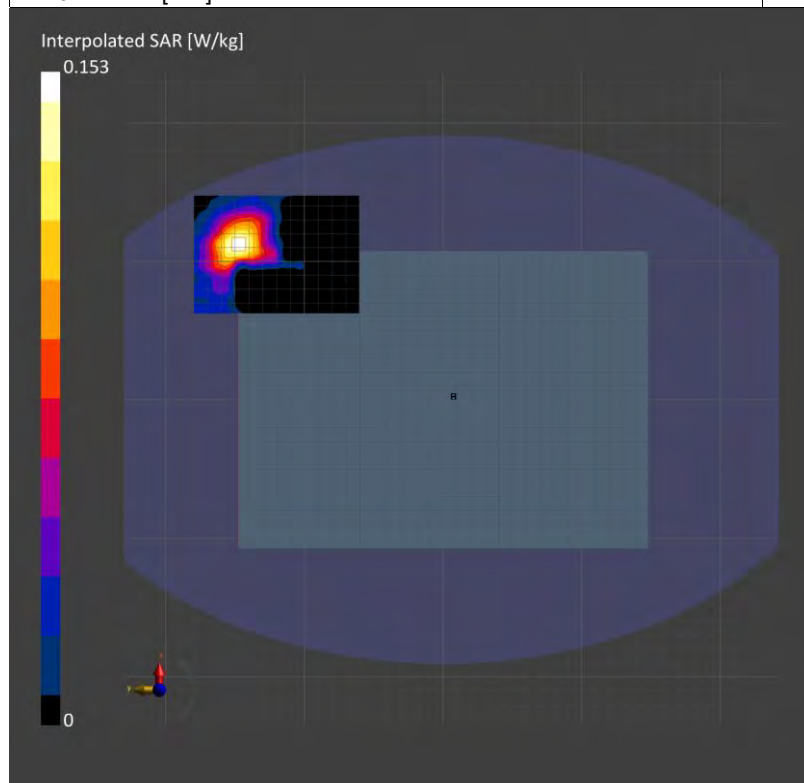
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.122	0.123
psSAR8g [W/kg]	0.054	0.055
psSAR10g [W/kg]	0.049	0.049
psPDab (4.0cm2, sq) [W/m2]		1.09
Power Drift [dB]	-0.03	0.06
M2/M1 [%]		61.8
Dist 3dB Peak [mm]		11.1



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Report No. : TESA2211000463E5

Measurement Report for N20Q10,U-NII-7 6.7G 802.11ax(160M)_Body_Bottom Surface_CH 143_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6665.0, 143	5.8	6.426	35.598

Hardware Setup

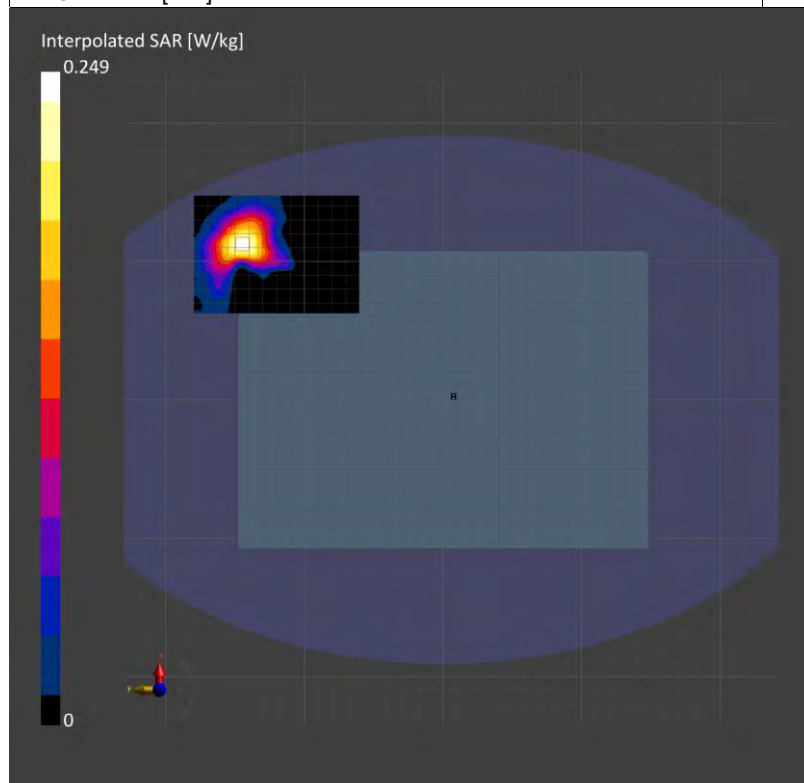
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.202	0.201
psSAR8g [W/kg]	0.089	0.091
psSAR10g [W/kg]	0.081	0.082
psPDab (4.0cm2, sq) [W/m2]		1.83
Power Drift [dB]	0.04	0.02
M2/M1 [%]		60.2
Dist 3dB Peak [mm]		10.2



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Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-8 7.0G 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.7	6.781	35.214

Hardware Setup

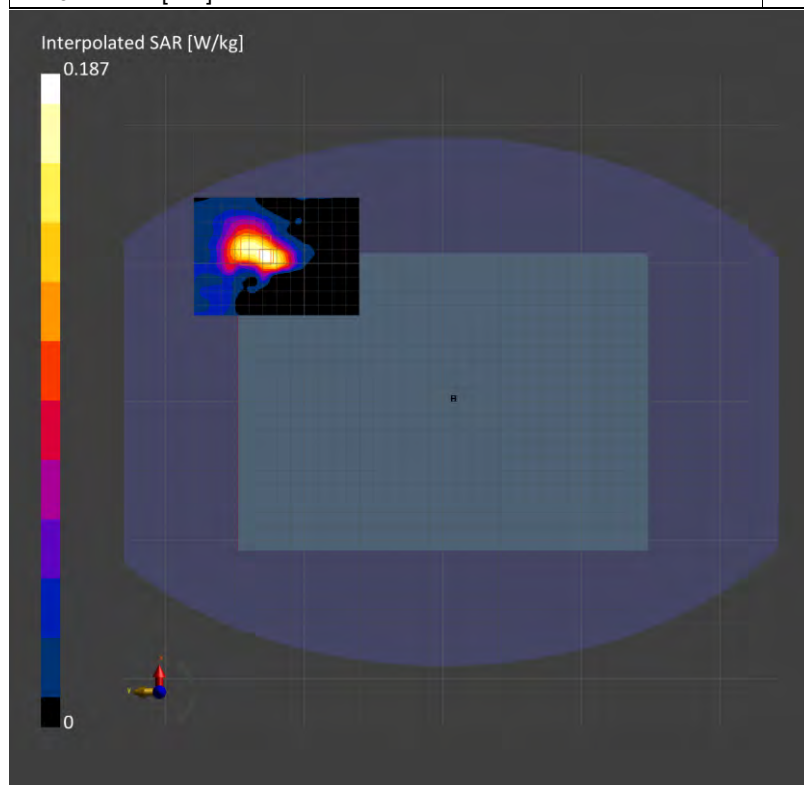
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.153	0.156
psSAR8g [W/kg]	0.067	0.069
psSAR10g [W/kg]	0.061	0.062
psPDab (4.0cm2, sq) [W/m2]		1.38
Power Drift [dB]	0.01	0.03
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		8.6



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Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-5 6.2G 802.11ax(160M)_Body_Bottom Surface_CH 79_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6345.0, 79	5.8	6.076	35.982

Hardware Setup

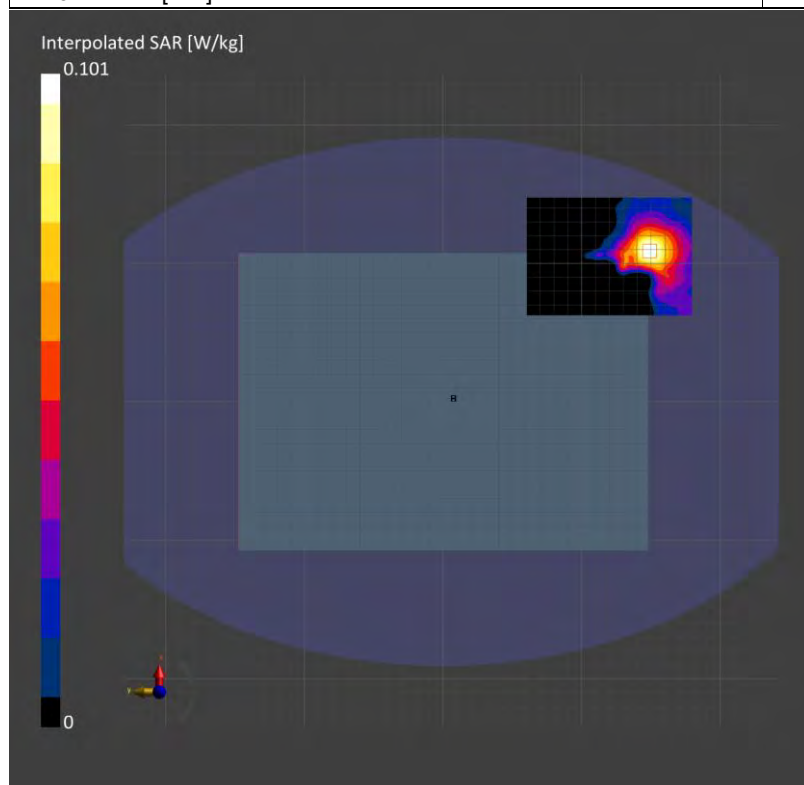
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.080	0.082
psSAR8g [W/kg]	0.035	0.038
psSAR10g [W/kg]	0.032	0.034
psPDab (4.0cm2, sq) [W/m2]		0.753
Power Drift [dB]	0.03	0.03
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		9.9



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ID: 035

Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-6 6.5G 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6505.0, 111	5.8	6.251	35.79

Hardware Setup

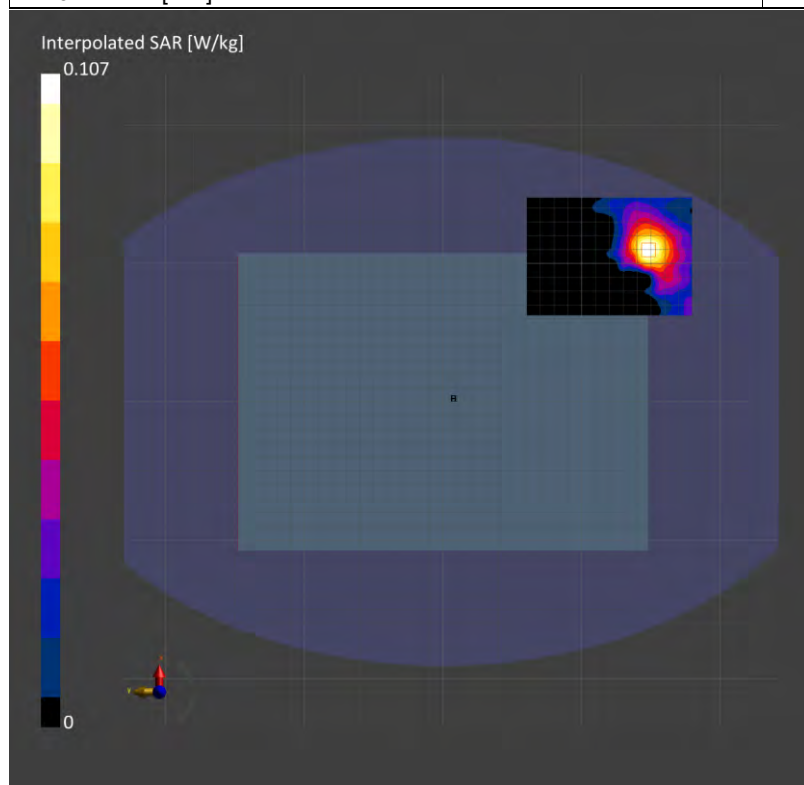
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 – SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.086	0.092
psSAR8g [W/kg]	0.037	0.041
psSAR10g [W/kg]	0.034	0.037
psPDab (4.0cm2, sq) [W/m2]		0.812
Power Drift [dB]	0.04	0.01
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		9.6



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ID: 036

Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-7 6.7G 802.11ax(160M)_Body_Bottom Surface_CH 111_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6825.0, 175	5.8	6.603	35.406

Hardware Setup

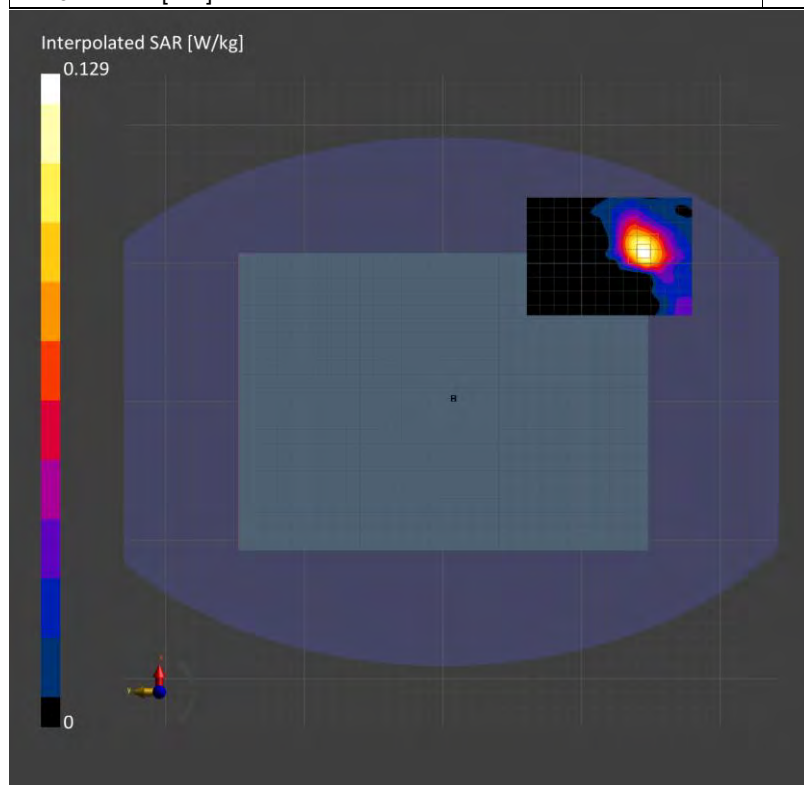
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.103	0.107
psSAR8g [W/kg]	0.045	0.046
psSAR10g [W/kg]	0.040	0.042
psPDab (4.0cm2, sq) [W/m2]		0.928
Power Drift [dB]	-0.05	0.01
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		9.0



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ID: 037

Report No. :TESA2211000463E5

Measurement Report for N20Q10,U-NII-8 7.0G 802.11ax(160M)_Body_Bottom Surface_CH 207_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.8	6.781	35.214

Hardware Setup

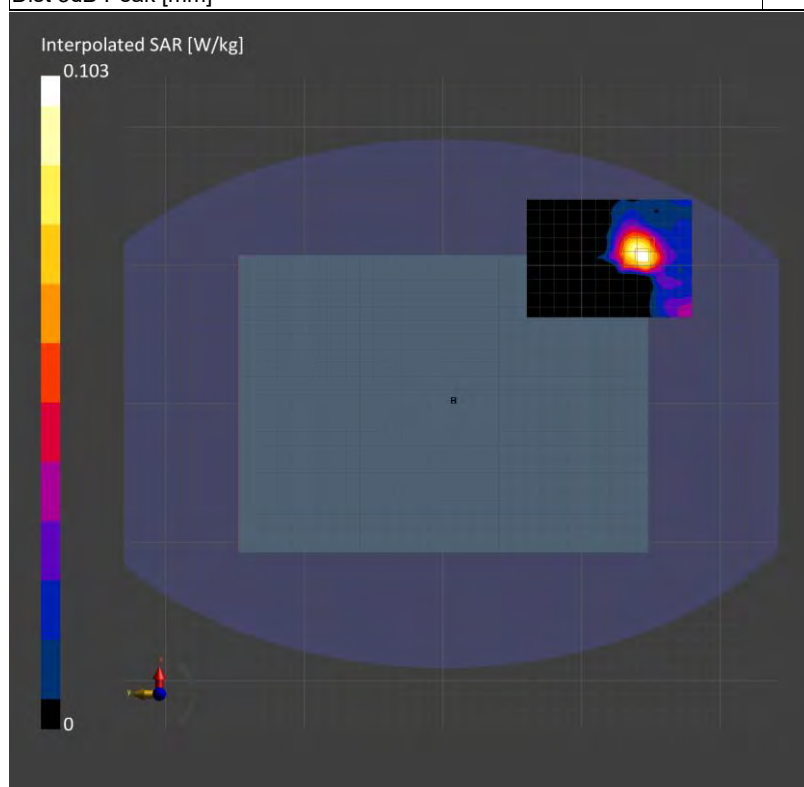
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 – SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.084	0.085
psSAR8g [W/kg]	0.036	0.032
psSAR10g [W/kg]	0.032	0.028
psPDab (4.0cm2, sq) [W/m2]		0.646
Power Drift [dB]	0.02	0.05
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		10.3



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ID: 038

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-5, 6.2G 802.11ax(160M)_Body_Right Edge_CH 47_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6185.0, 47	5.8	5.903	36.174

Hardware Setup

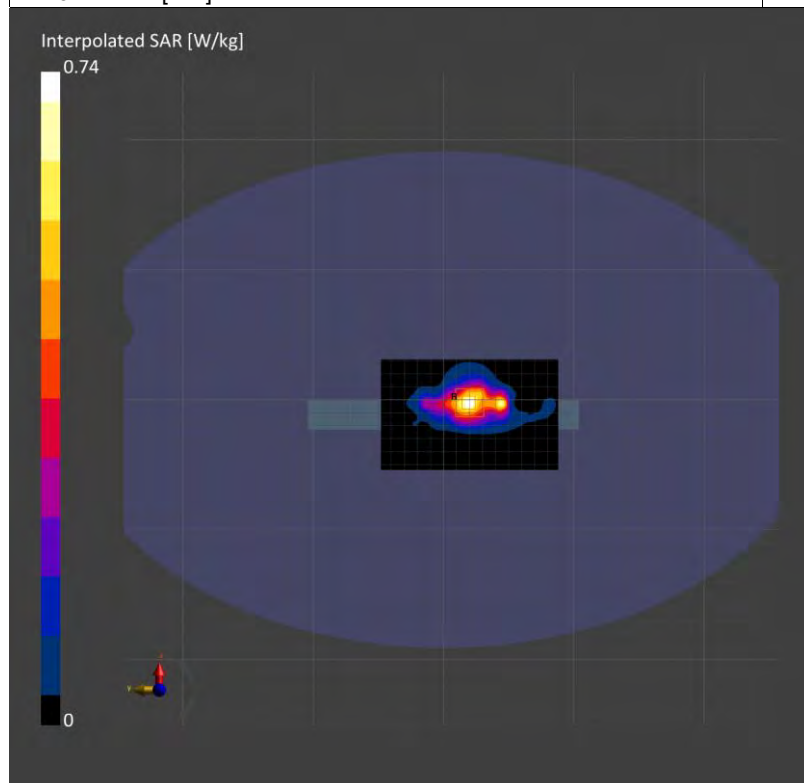
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.531	0.591
psSAR8g [W/kg]	0.218	0.234
psSAR10g [W/kg]	0.195	0.212
psPDab (4.0cm2, sq) [W/m2]		4.74
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		9.4



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ID: 039

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-5 6.2G 802.11ax(160M)_Body_Right Edge_CH 79_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6345.0, 79	5.8	6.076	35.982

Hardware Setup

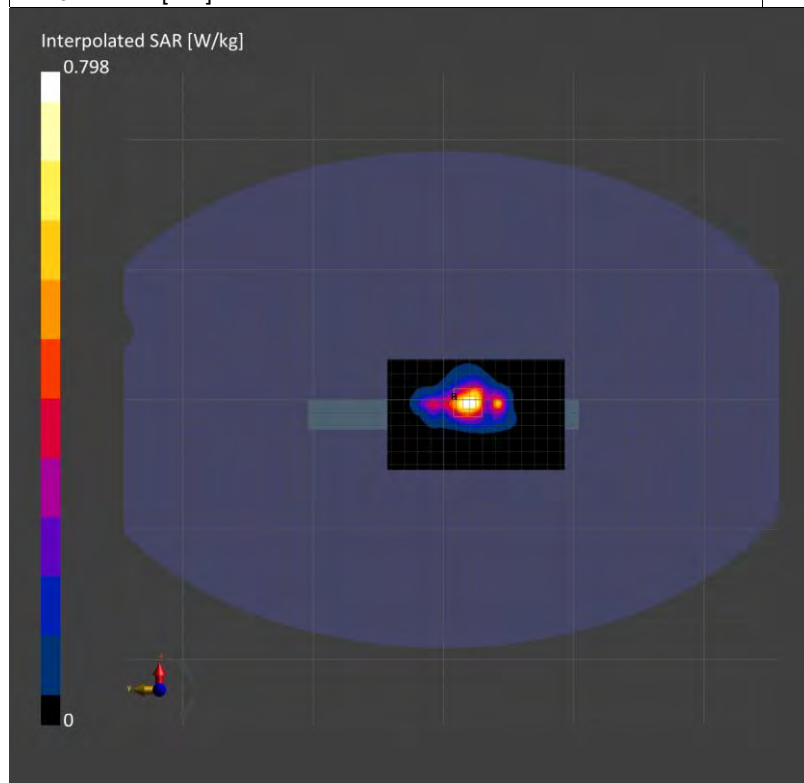
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.599	0.646
psSAR8g [W/kg]	0.231	0.243
psSAR10g [W/kg]	0.204	0.215
psPDab (4.0cm2, sq) [W/m2]		4.87
Power Drift [dB]	-0.01	0.05
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		10.6



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-6 6.5G 802.11ax(160M)_Body_Right Edge_CH 111_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6505.0, 111	5.8	6.251	35.79

Hardware Setup

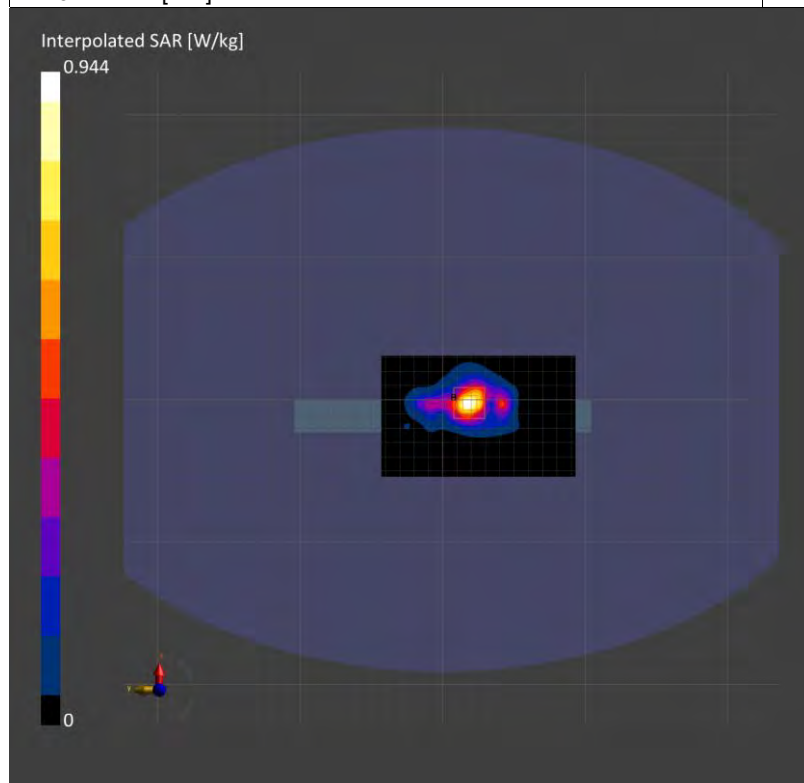
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.695	0.748
psSAR8g [W/kg]	0.262	0.272
psSAR10g [W/kg]	0.231	0.239
psPDab (4.0cm2, sq) [W/m2]		5.44
Power Drift [dB]	0.05	0.03
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		11.0



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-7 6.7G 802.11ax(160M)_Body_Right Edge_CH 143_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6665.0, 143	5.8	6.426	35.598

Hardware Setup

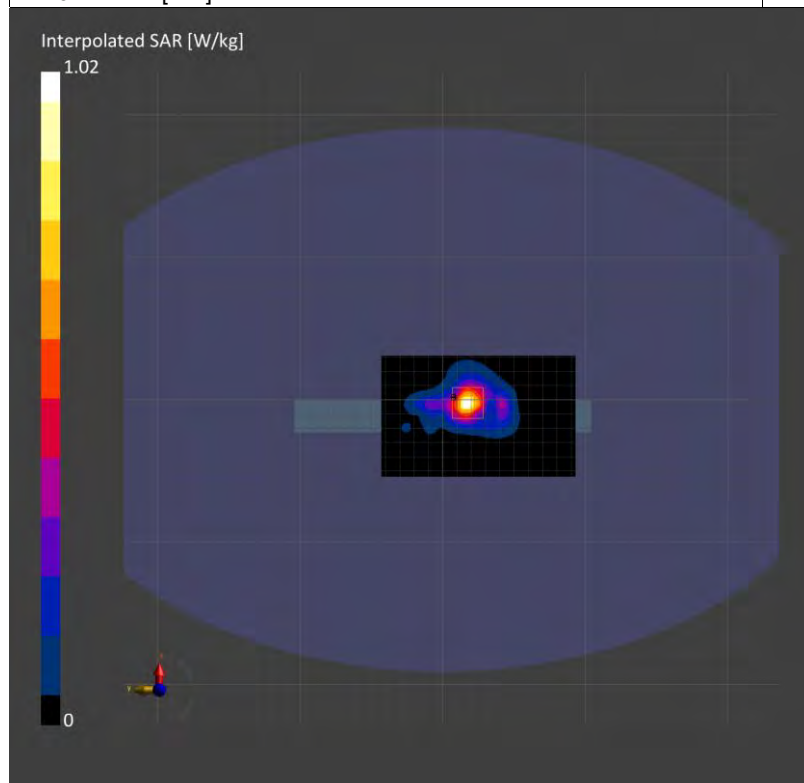
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.728	0.772
psSAR8g [W/kg]	0.263	0.278
psSAR10g [W/kg]	0.231	0.243
psPDab (4.0cm2, sq) [W/m2]		5.56
Power Drift [dB]	-0.02	-0.06
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		9.7



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-8 7.0G 802.11ax(160M)_Body_Right Edge_CH 207_0mm_Main

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6985.0, 207	5.7	6.781	35.214

Hardware Setup

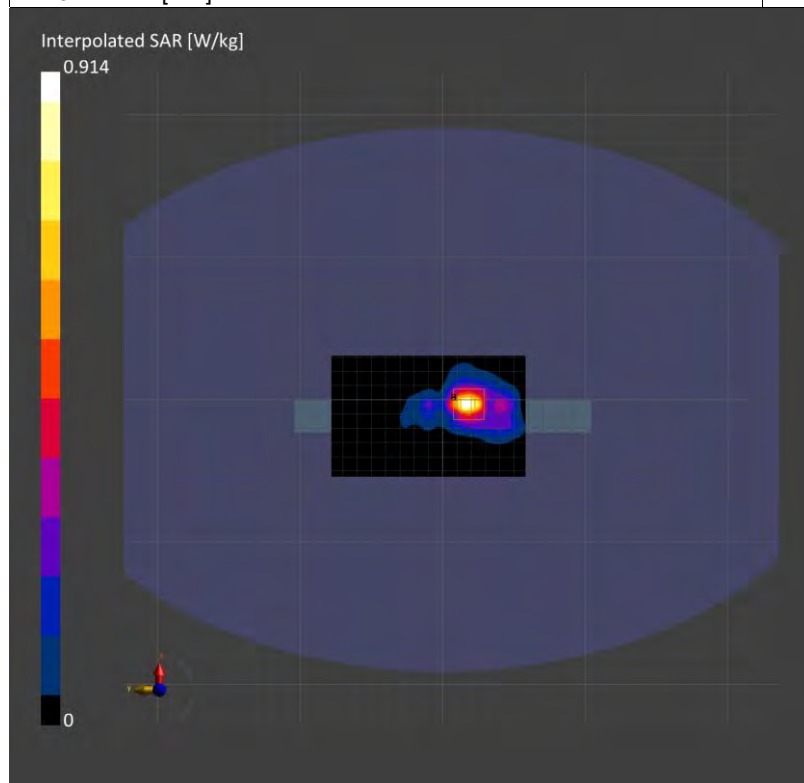
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.702	0.684
psSAR8g [W/kg]	0.258	0.256
psSAR10g [W/kg]	0.227	0.224
psPDab (4.0cm2, sq) [W/m2]		5.12
Power Drift [dB]	0.04	0.06
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		9.2



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Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-5 6.2G 802.11ax(160M)_Body_Left Edge_CH 15_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6025.0, 15	5.8	5.73	36.366

Hardware Setup

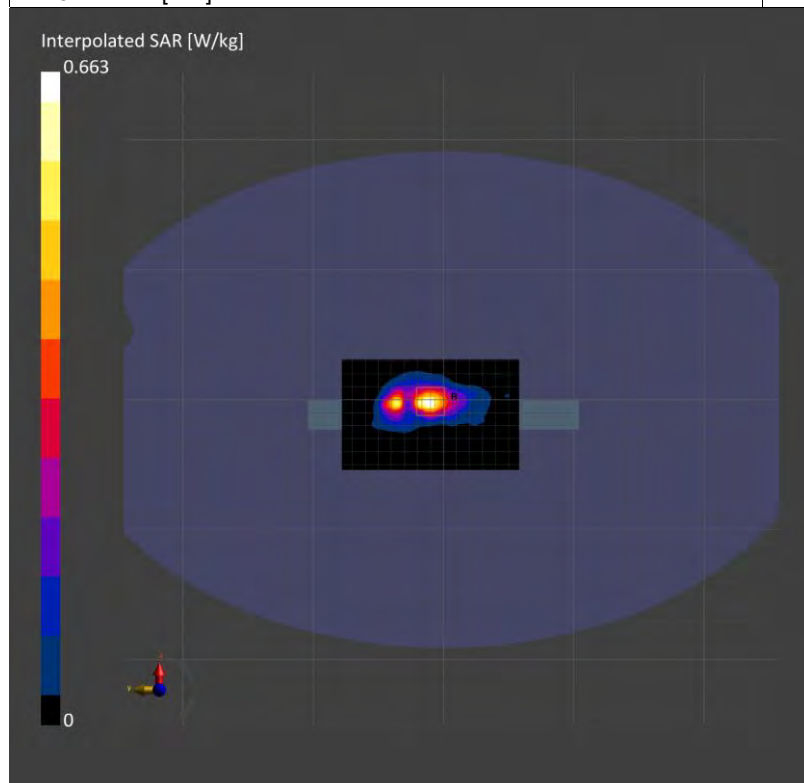
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.468	0.519
psSAR8g [W/kg]	0.176	0.131
psSAR10g [W/kg]	0.156	0.173
psPDab (4.0cm2, sq) [W/m2]		3.95
Power Drift [dB]	-0.02	-0.04
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		9.3



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ID: 044

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-5 6.5G 802.11ax(160M)_Body_Left Edge_CH 47_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6185.0, 47	5.8	5.903	36.174

Hardware Setup

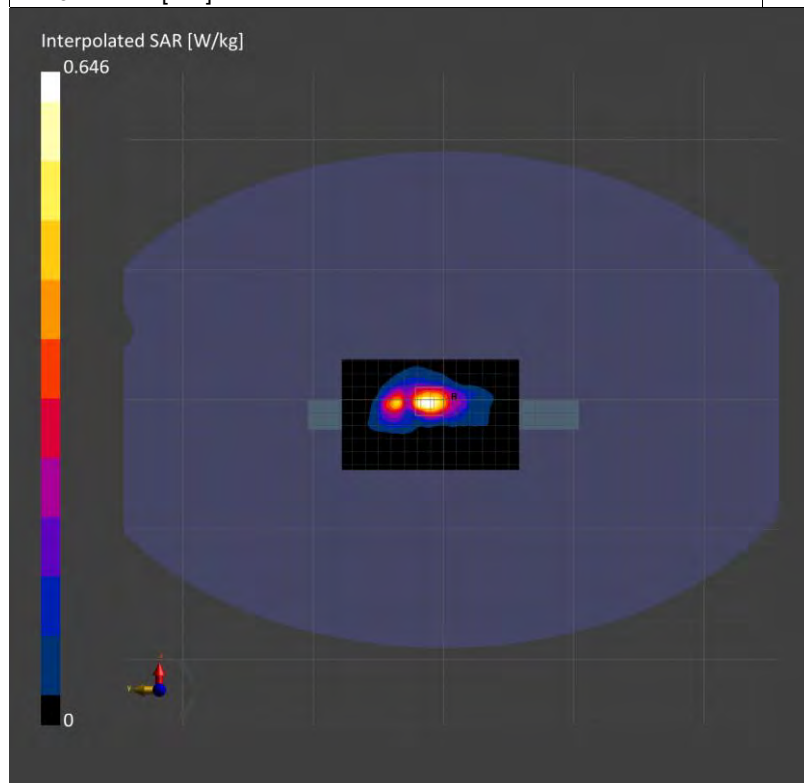
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.477	0.529
psSAR8g [W/kg]	0.185	0.208
psSAR10g [W/kg]	0.164	0.183
psPDab (4.0cm2, sq) [W/m2]		4.16
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		7.5



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ID: 045

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-6 6.5G 802.11ax(160M)_Body_Left Edge_CH 111_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6505.0, 111	5.8	6.251	35.79

Hardware Setup

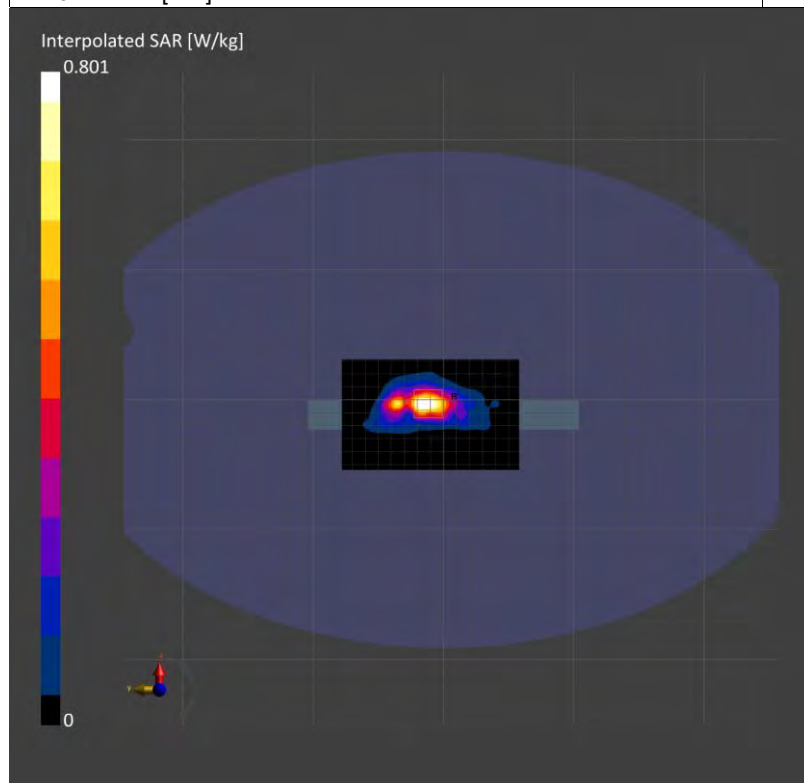
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.563	0.614
psSAR8g [W/kg]	0.207	0.225
psSAR10g [W/kg]	0.183	0.197
psPDab (4.0cm2, sq) [W/m2]		4.49
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		6.9



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ID: 046

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-7 6.7G 802.11ax(160M)_Body_Left Edge_CH 175_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6825.0, 175	5.8	6.603	35.406

Hardware Setup

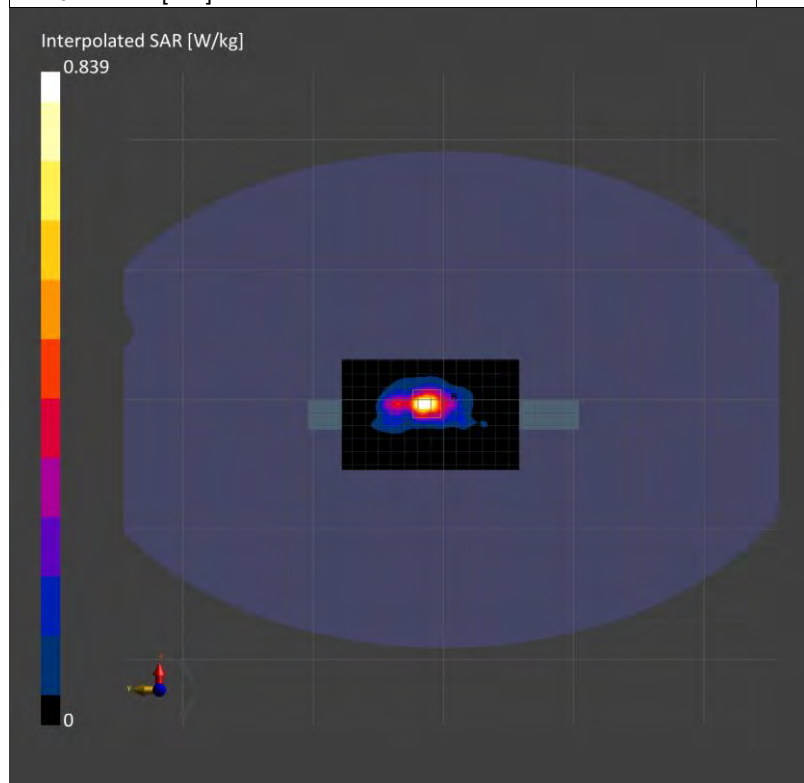
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21,
psSAR1g [W/kg]	0.642	0.678
psSAR8g [W/kg]	0.229	0.242
psSAR10g [W/kg]	0.201	0.211
psPDab (4.0cm2, sq) [W/m2]		4.84
Power Drift [dB]	0.06	0.01
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		6.5



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ID: 047

Report No. :TESA2211000463E5

Measurement Report for N20Q10, U-NII-8 7.0G 802.11ax(160M)_Body_Left Edge_CH 207_0mm_Aux

Ambient temperature: 21.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6985.0, 207	5.7	6.781	35.214

Hardware Setup

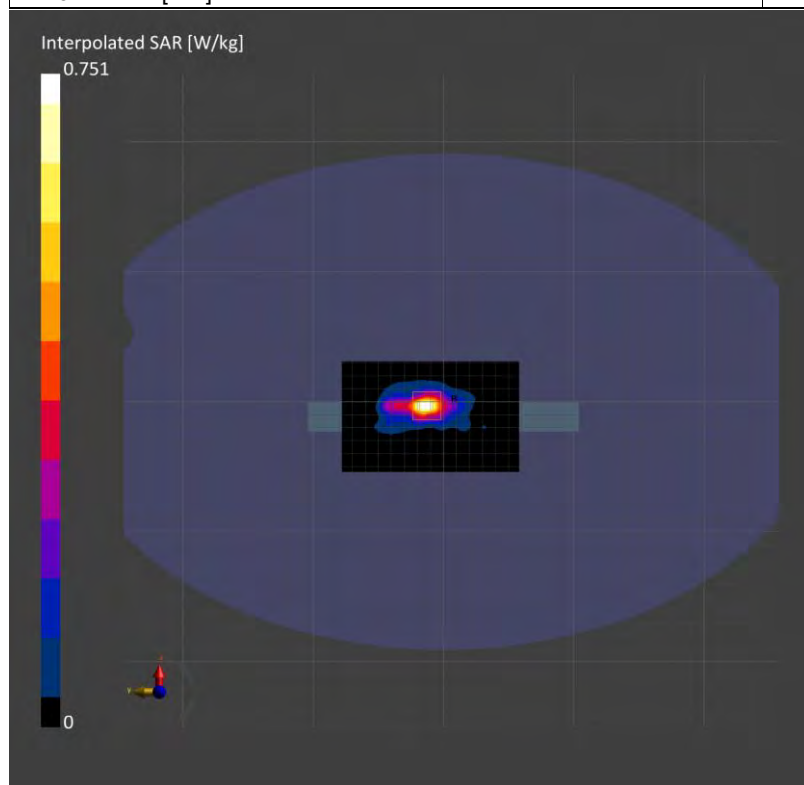
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

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 Edge [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-21	2022-11-21
psSAR1g [W/kg]	0.591	0.616
psSAR8g [W/kg]	0.210	0.221
psSAR10g [W/kg]	0.184	0.195
psPDab (4.0cm2, sq) [W/m2]		4.47
Power Drift [dB]	0.01	0.02
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		6.7



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13 PD MEASUREMENT RESULTS

ID: 048

Report No. : TESA2211000463E5

Measurement Report for N20Q10, Right Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

Exposure Conditions

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

Hardware Setup

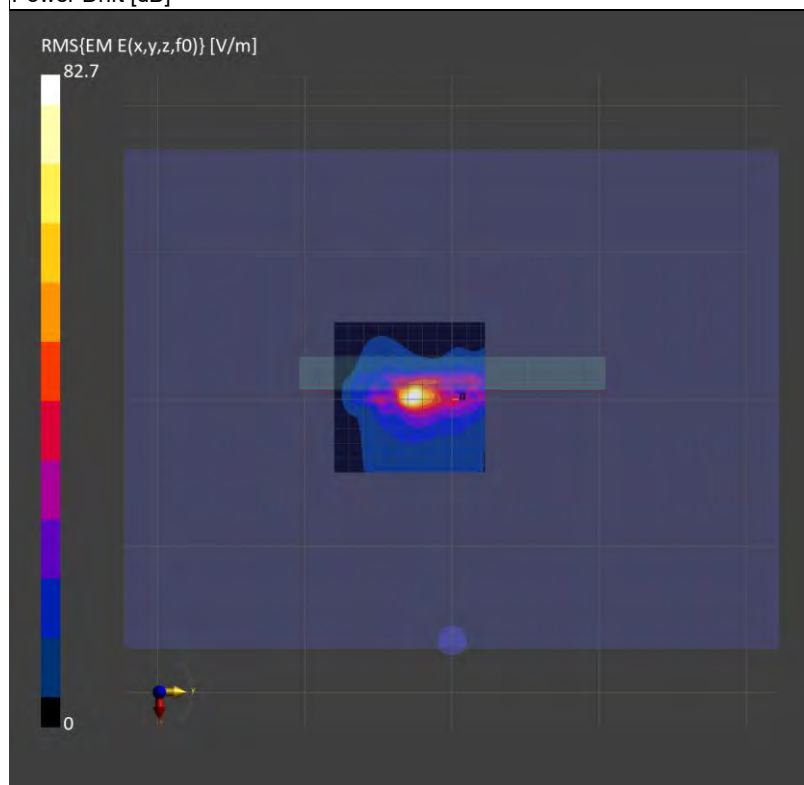
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-22
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.68
psPDtot+ [W/m ²]	4.96
psPDmod+ [W/m ²]	7.59
E _{max} [V/m]	82.7
Power Drift [dB]	0.06



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ID: 049

Report No. : TESA2211000463E5

Measurement Report for N20Q10, Right Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)**Exposure Conditions**

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

Hardware Setup

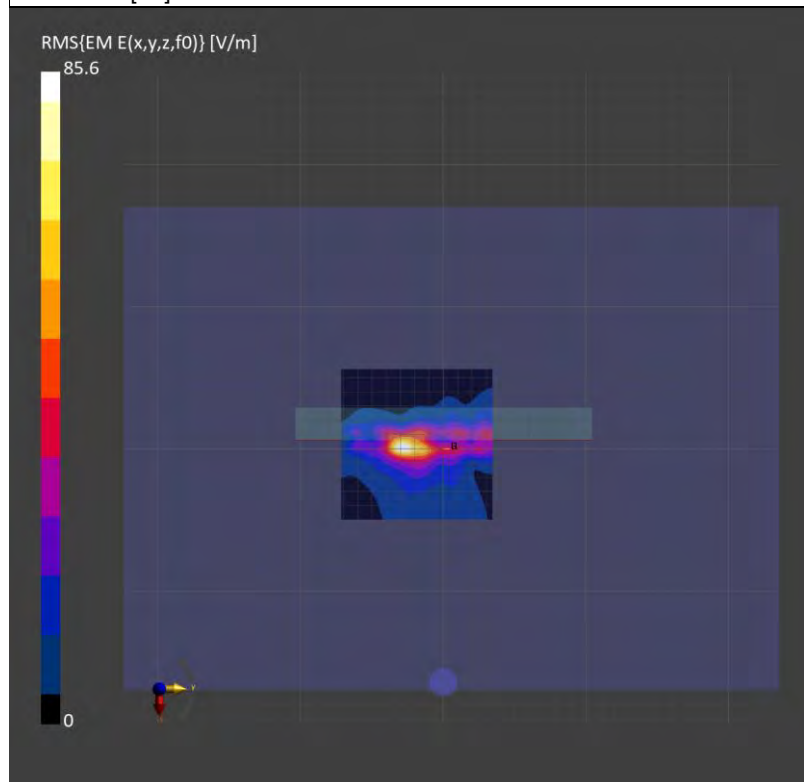
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-22
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.66
psPDtot+ [W/m ²]	5.42
psPDmod+ [W/m ²]	7.16
E _{max} [V/m]	85.6
Power Drift [dB]	0.02



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Report No. : TESA2211000463E5

Measurement Report for N20Q10, Right Edge, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)**Exposure Conditions**

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

Hardware Setup

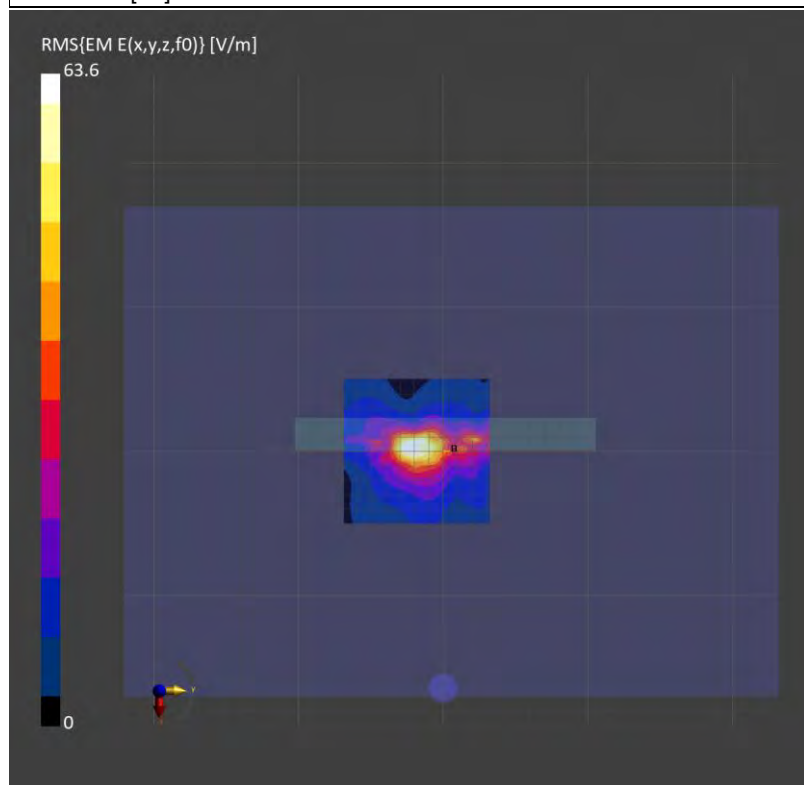
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-22
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.20
psPDtot+ [W/m ²]	4.84
psPDmod+ [W/m ²]	6.12
E _{max} [V/m]	63.7
Power Drift [dB]	-0.05



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ID: 051

Report No. : TESA2211000463E5

Measurement Report for N20Q10, Right Edge, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)**Exposure Conditions**

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

Hardware Setup

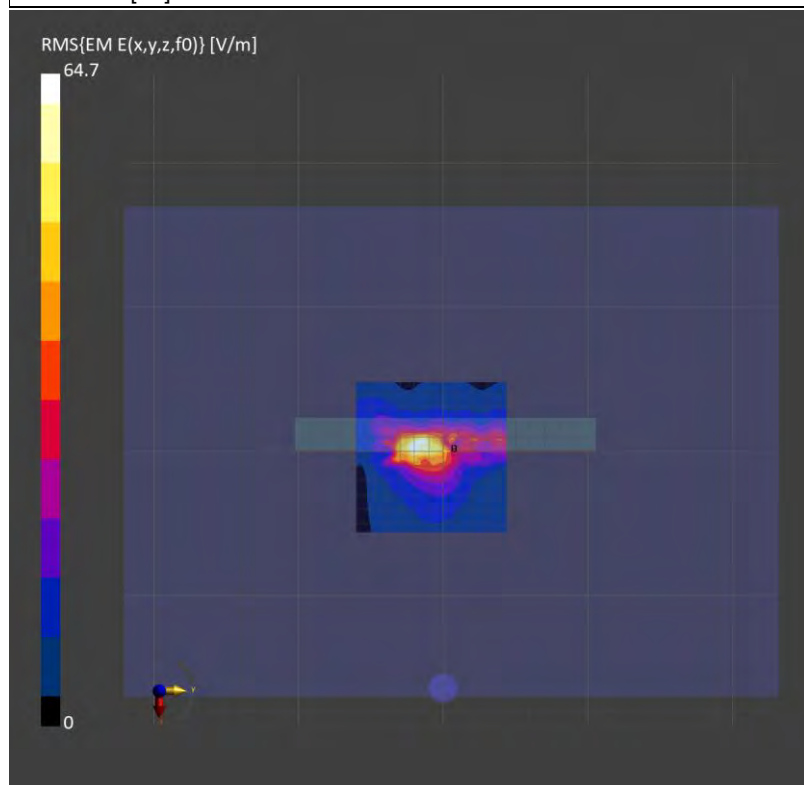
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-22
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.88
psPDtot+ [W/m ²]	5.98
psPDmod+ [W/m ²]	7.21
E _{max} [V/m]	64.7
Power Drift [dB]	-0.04



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ID: 052

Report No. : TESA2211000463E5

Measurement Report for N20Q10, Right Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)**Exposure Conditions**

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

Hardware Setup

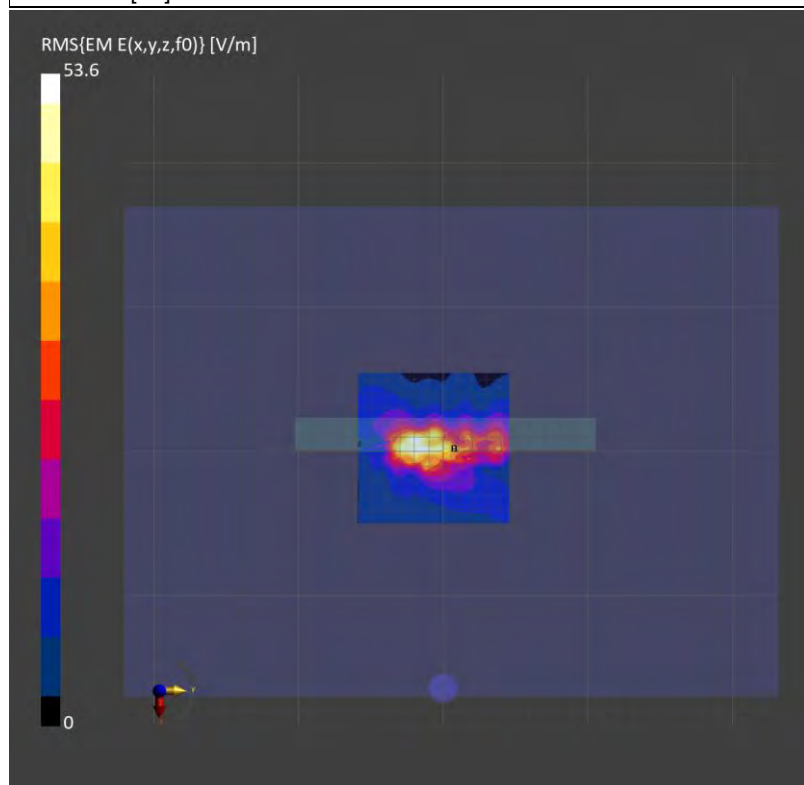
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-22
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.80
psPDtot+ [W/m ²]	3.31
psPDmod+ [W/m ²]	4.79
E _{max} [V/m]	53.6
Power Drift [dB]	0.11



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ID: 053

Report No. : TESA2211000463E5

Measurement Report for N20Q10, Left Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)**Exposure Conditions**

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

Hardware Setup

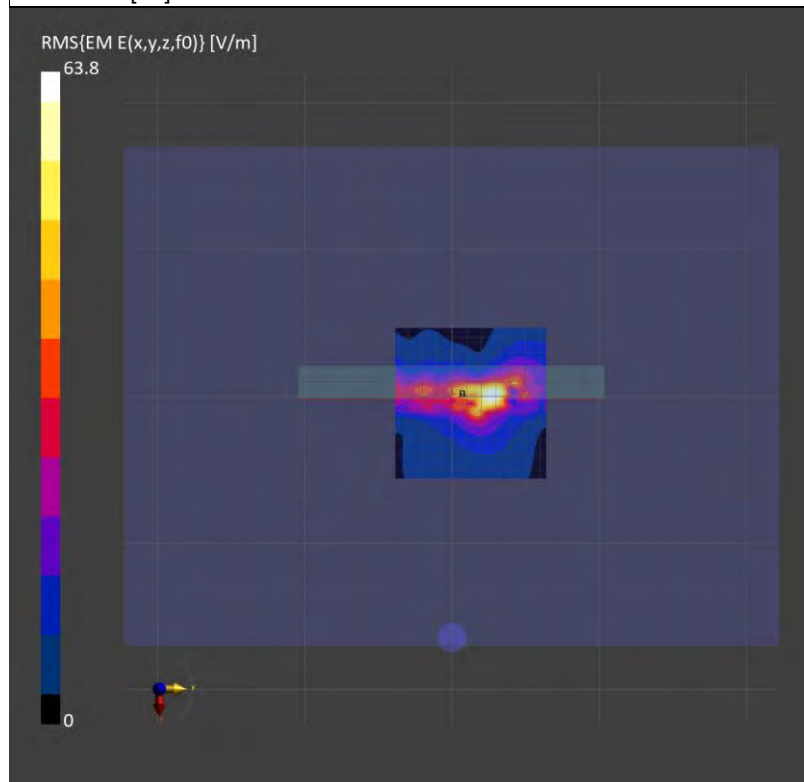
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.80
psPDtot+ [W/m ²]	5.51
psPDmod+ [W/m ²]	6.79
E _{max} [V/m]	63.8
Power Drift [dB]	-0.03



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Report No. : TESA2211000463E5

Measurement Report for N20Q10, Left Edge, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)**Exposure Conditions**

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

Hardware Setup

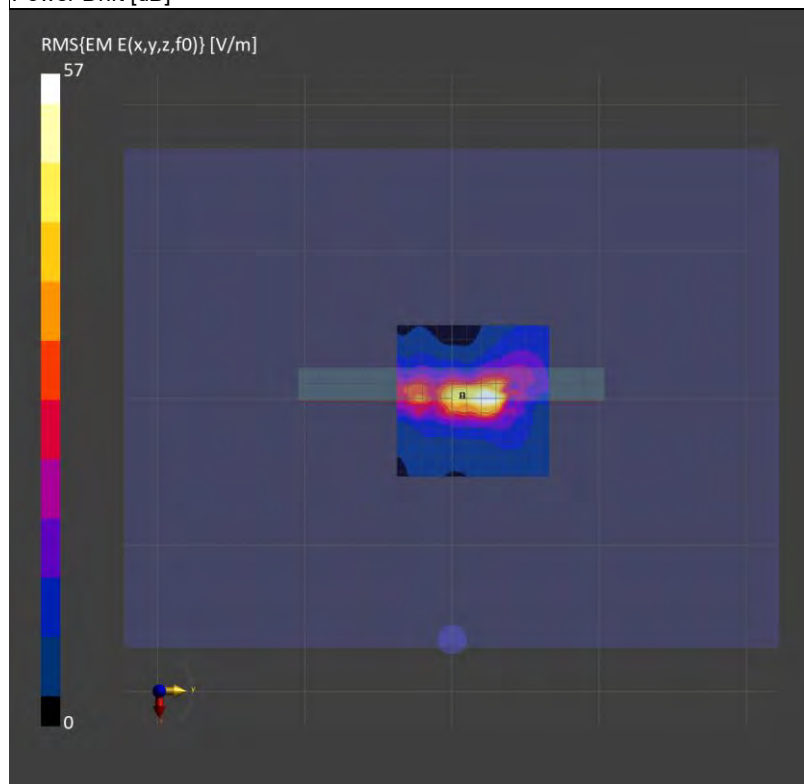
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.56
psPDtot+ [W/m ²]	4.39
psPDmod+ [W/m ²]	5.29
E _{max} [V/m]	57.0
Power Drift [dB]	-0.03



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Report No. : TESA2211000463E5

Measurement Report for N20Q10, Left Edge, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

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

Hardware Setup

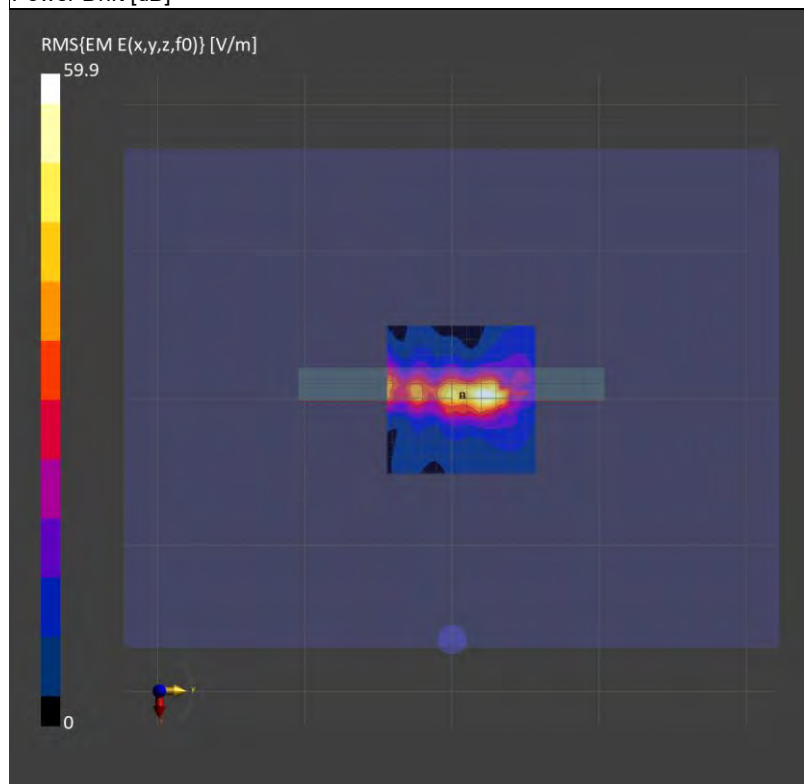
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.58
psPDtot+ [W/m ²]	4.02
psPDmod+ [W/m ²]	4.85
E _{max} [V/m]	59.9
Power Drift [dB]	-0.06



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Report No. : TESA2211000463E5

Measurement Report for N20Q10, Left Edge, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

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

Hardware Setup

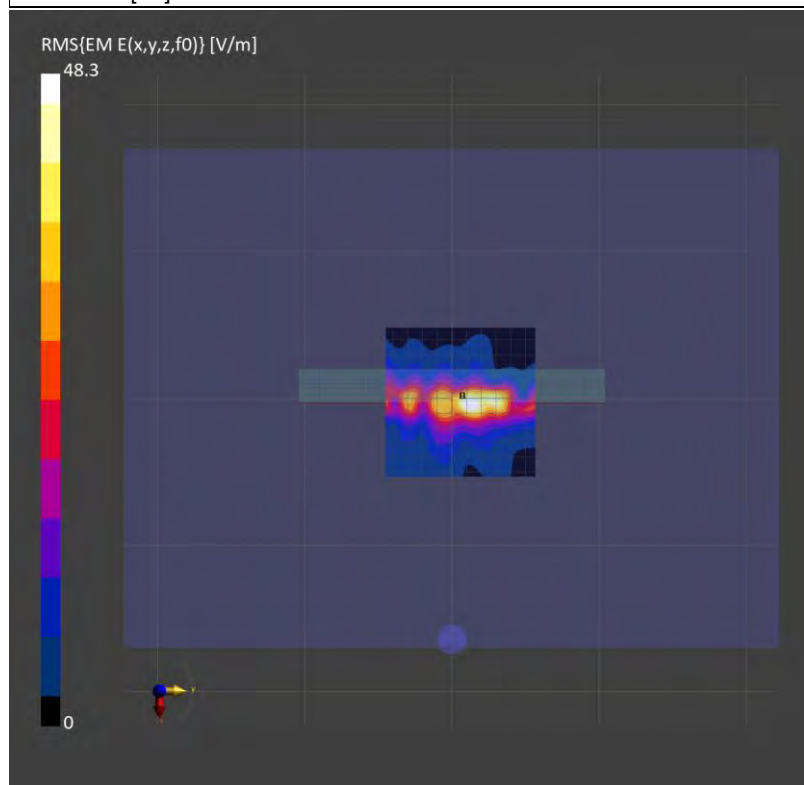
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.81
psPDtot+ [W/m ²]	2.96
psPDmod+ [W/m ²]	3.23
E _{max} [V/m]	58.3
Power Drift [dB]	-0.03



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Report No. : TESA2211000463E5

Measurement Report for N20Q10, Left Edge, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)**Exposure Conditions**

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

Hardware Setup

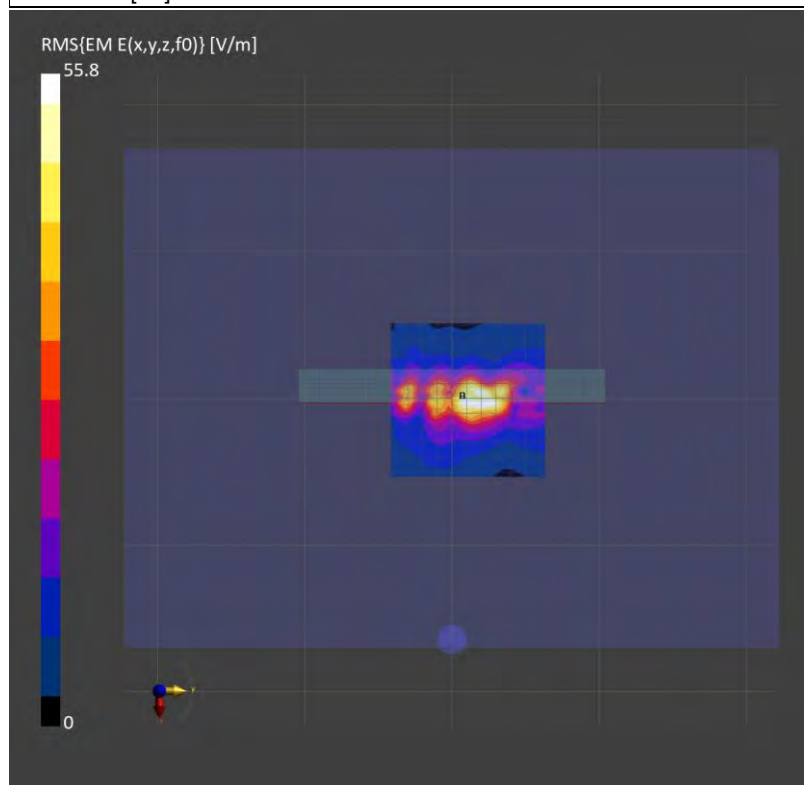
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1719, 2022-03-25

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2022-11-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.35
psPDtot+ [W/m ²]	5.24
psPDmod+ [W/m ²]	5.99
E _{max} [V/m]	55.8
Power Drift [dB]	-0.05



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14 SAR SYSTEM CHECK RESULTS

Report No. : TESA2211000463E5

Measurement Report for Device, FRONT, D2450,

CW, Channel 2450 (2450.0 MHz), SN:727

Ambient temperature: 22.4°C; Liquid temperature: 20.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.16	1.863	40.525

Hardware Setup

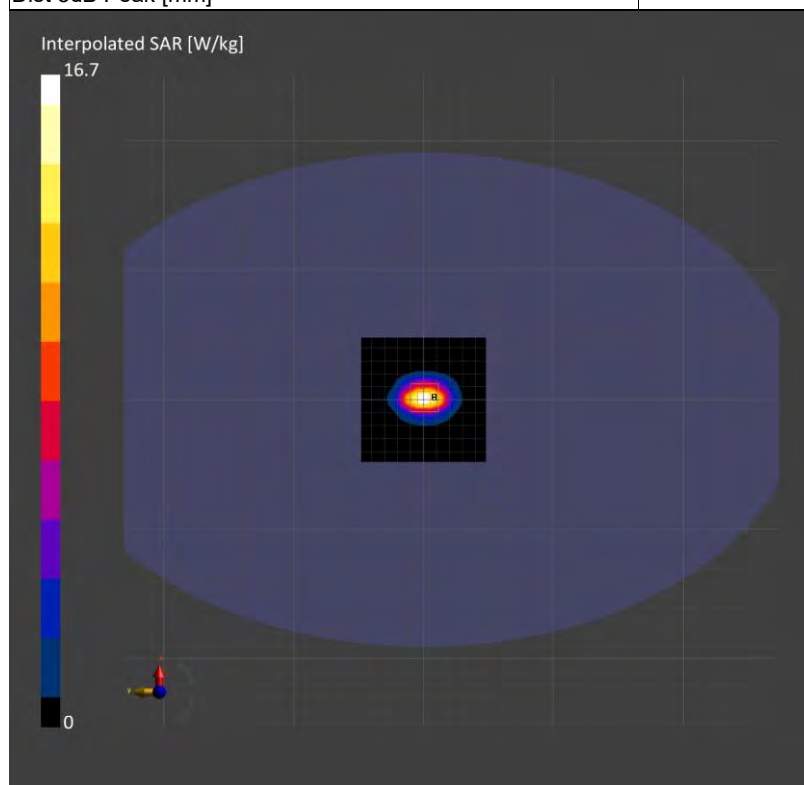
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-24	2022-11-24
psSAR1g [W/kg]	12.6	12.8
psSAR8g [W/kg]	6.46	6.58
psSAR10g [W/kg]	5.83	5.96
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		6.0



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Report No. : TESA2211000463E5

Measurement Report for Device, FRONT, D5GHz,

CW, Channel 5250 (5250.0 MHz), SN:1023

Ambient temperature: 22.1°C; Liquid temperature: 20.2

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.94	4.904	37.254

Hardware Setup

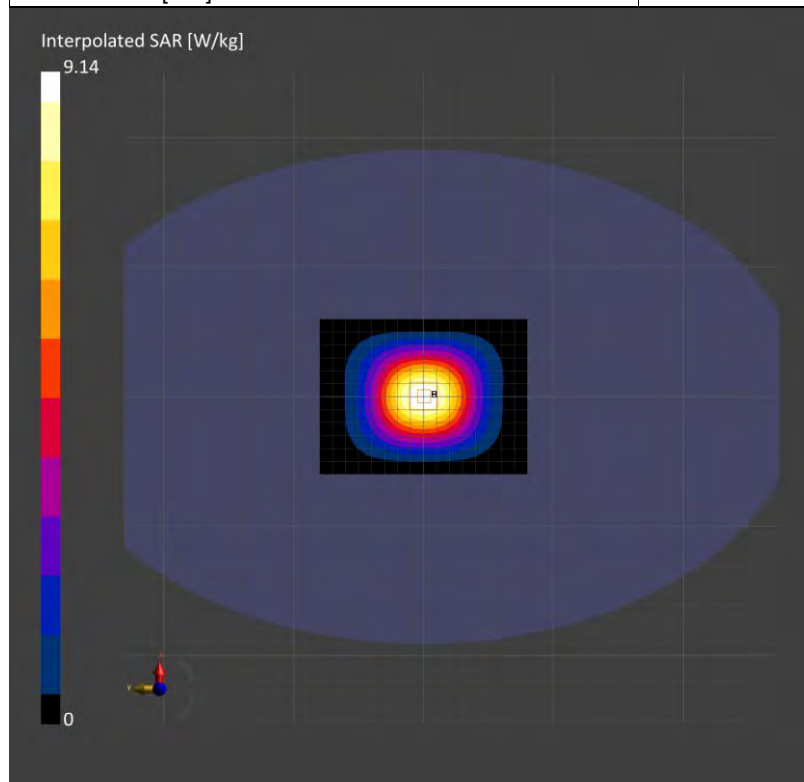
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	60.0 x 80.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-25	2022-11-25
psSAR1g [W/kg]	5.98	8.11
psSAR8g [W/kg]	3.03	2.72
psSAR10g [W/kg]	2.80	2.33
Power Drift [dB]	-0.05	0.01
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		7.2



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Report No. : TESA2211000463E5

Measurement Report for Device, FRONT, D5GHz,

CW, Channel 5600 (5600.0 MHz) , SN:1023

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.29	5.277	36.854

Hardware Setup

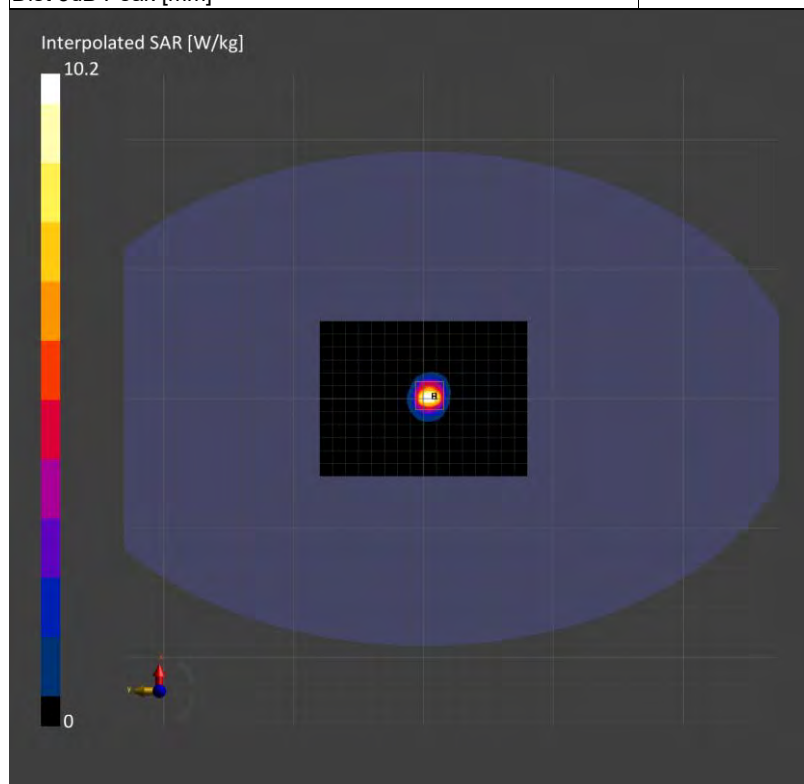
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	7.26	7.97
psSAR8g [W/kg]	2.57	2.65
psSAR10g [W/kg]	2.22	2.28
Power Drift [dB]	0.01	-0.05
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.4



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Report No. : TESA2211000463E5

Measurement Report for Device, FRONT, D5GHz,

CW, Channel 5750 (5750.0 MHz) , SN:1023

Ambient temperature: 22.6°C; Liquid temperature: 20.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.45	5.436	36.682

Hardware Setup

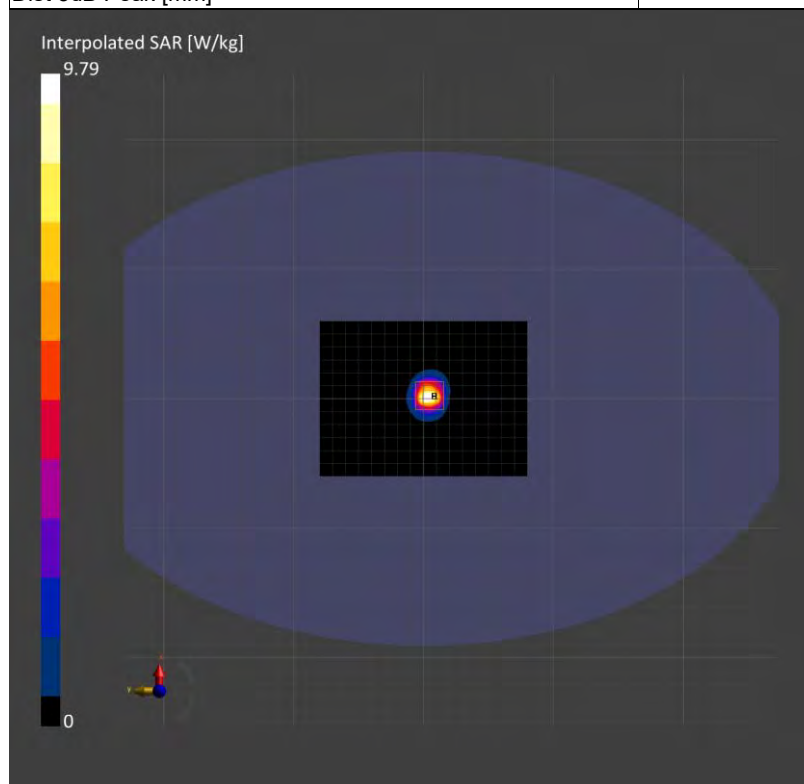
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-26	2022-11-26
psSAR1g [W/kg]	7.01	8.16
psSAR8g [W/kg]	2.52	2.72
psSAR10g [W/kg]	2.18	2.34
Power Drift [dB]	0.01	-0.02
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		8.1



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Report No. : TESA2211000463E5

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

Ambient temperature: 22.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.8	6.245	35.796

Hardware Setup

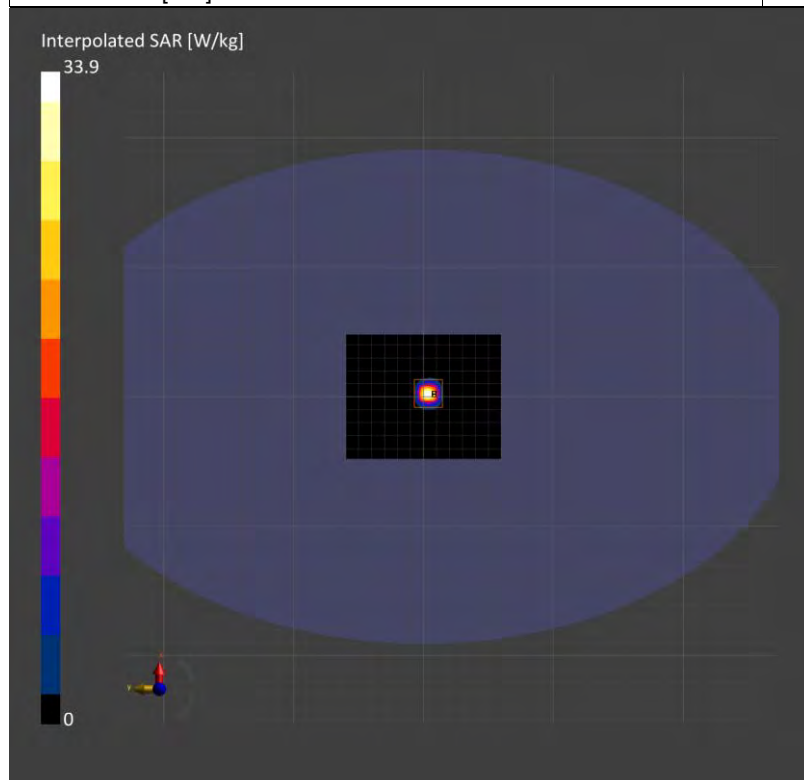
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 119.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	22.2	28.2
psSAR8g [W/kg]	5.81	6.47
psSAR10g [W/kg]	4.81	5.32
psPDab (4.0cm2, sq) [W/m2]		129
Power Drift [dB]	0.01	0.04
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		6.8



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Report No. : TESA2211000463E5

Measurement Report for Device, FRONT, Validation band,
CW, Channel 7000 (7000.0 MHz) , SN:1007

Ambient temperature: 22.4°C; Liquid temperature: 20.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.7	6.797	35.196

Hardware Setup

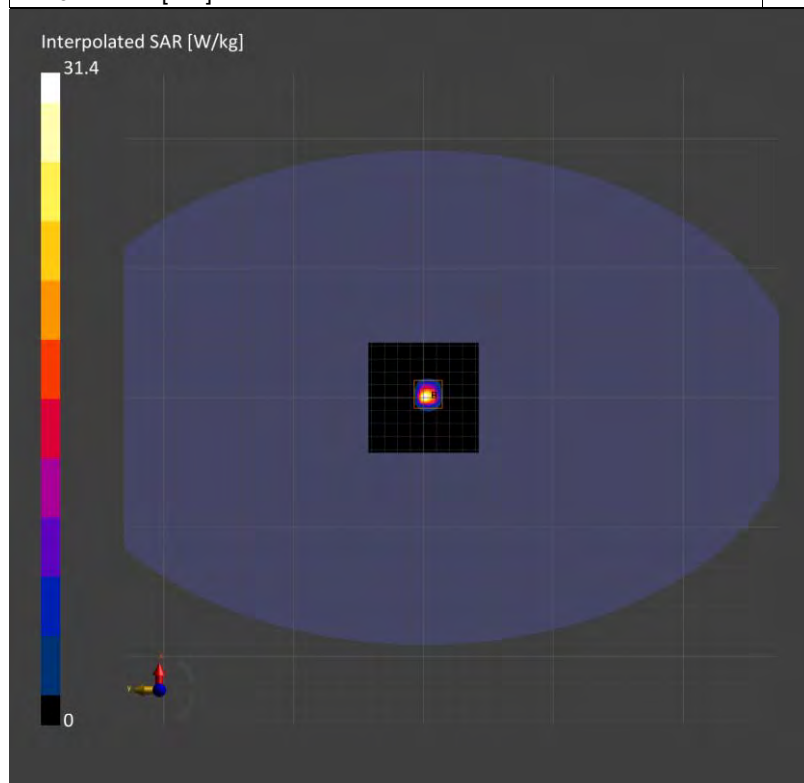
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 – SN7642, 2022-03-02	DAE4 Sn1751, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	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	2022-11-21	2022-11-21
psSAR1g [W/kg]	20.7	27.0
psSAR8g [W/kg]	5.46	5.96
psSAR10g [W/kg]	4.54	4.89
psPDab (4.0cm2, sq) [W/m2]		119
Power Drift [dB]	0.04	0.04
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		7.6



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15 PD SYSTEM CHECK RESULTS

Report No. : TESA2211000463E5

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

Exposure Conditions

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

Hardware Setup

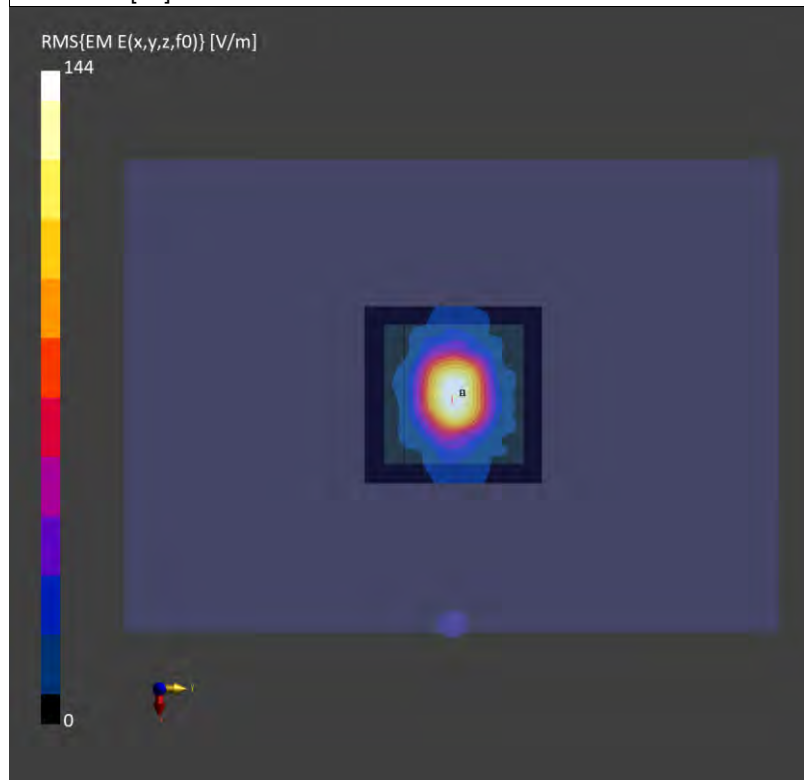
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

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	2022-11-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	47.7
psPDtot+ [W/m ²]	47.9
psPDmod+ [W/m ²]	48.2
E _{max} [V/m]	144
Power Drift [dB]	0.04



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16 APPENDIXES

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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