RF Exposure report

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

EUT Description	Wireless module installed in Notebook
Brand Name	Acer
Model Number	BE200NGW
Host Model Number	N24Q1
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	HLZBE200NG
Date of EUT Receipt	Jul. 26, 2024
Date of Test(s)	Aug. 21, 2024 ~ Aug. 26, 2024
Date of Issue	Sep. 18, 2024

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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Ltd. Central RF Lab or testing done by SGS Taiwan Ltd. Central RF Lab in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Ltd. Central RF Lab in writing.

Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Bond Tsai	Approved By / John Yeh
Kimmy Chiou	Bond Tsai	John Yeh

Date: Sep. 18, 2024

Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2407000466E5	00	Initial creation of document	Sep. 18, 2024	Kimmy Chiou	

Note:

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

Contents

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

1.2 Description of EUT

EUT Description	Wireless module installed in Notebook	
Brand Name	Acer	
Model Number	BE200NGW	
FCC ID	HLZBE200NG	
Host Information	EUT Description: Notebook Computer Brand Name: acer Model Name: N24Q1	
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/be	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax/be	5.2GHz (5150.0 –5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11ax/be	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

1.3 Maximum value

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g (W/kg)	Highest APD (W/m^2)	Highest PD (W/m^2)
Bluetooth(GFSK)	0.37	N/A	N/A
2.4G WLAN	0.87	N/A	N/A
5G WLAN	1.19	N/A	N/A
6G WLAN	0.64	4.17	7.78

1.4 Antenna Information

Laptop mode_WLAN

Vendor	WNC									
Antenna	Main									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.61	2.17	2.50	2.98	2.98	2.82	2.76	2.25	2.31	2.83
Antenna	Aux									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.38	2.96	2.96	2.58	2.30	2.30	2.95	2.63	2.50	2.05

Tablet mode_WLAN

Vendor	WNC									
Antenna	Main									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.90	2.76	2.76	2.66	2.44	2.40	2.75	2.75	2.74	2.51
Antenna	Aux									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.18	2.90	2.90	2.45	2.12	2.12	2.92	2.92	1.60	1.33

Note: Antenna information is provided by the applicant.

2 MEASUREMENT SYSTEM

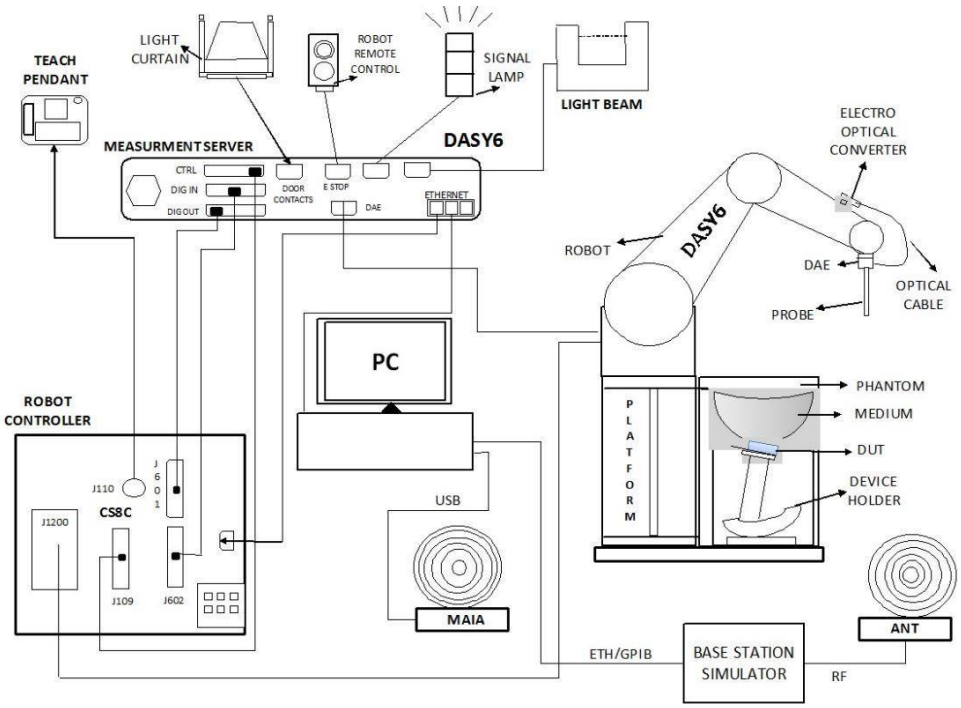
2.1 Test Facility

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		
		SAR 8		
	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.				

2.2 SAR System

Block Diagram (DASY6)

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



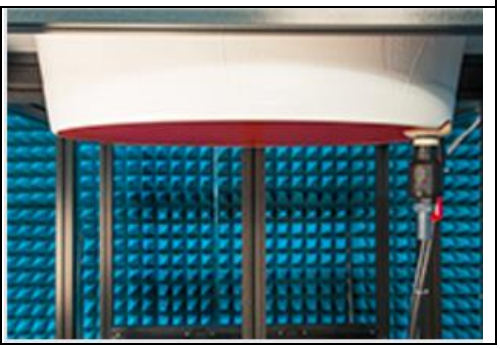
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the 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.

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 2450/5250/5600/5750/6500/7000MHz 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%.	

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)

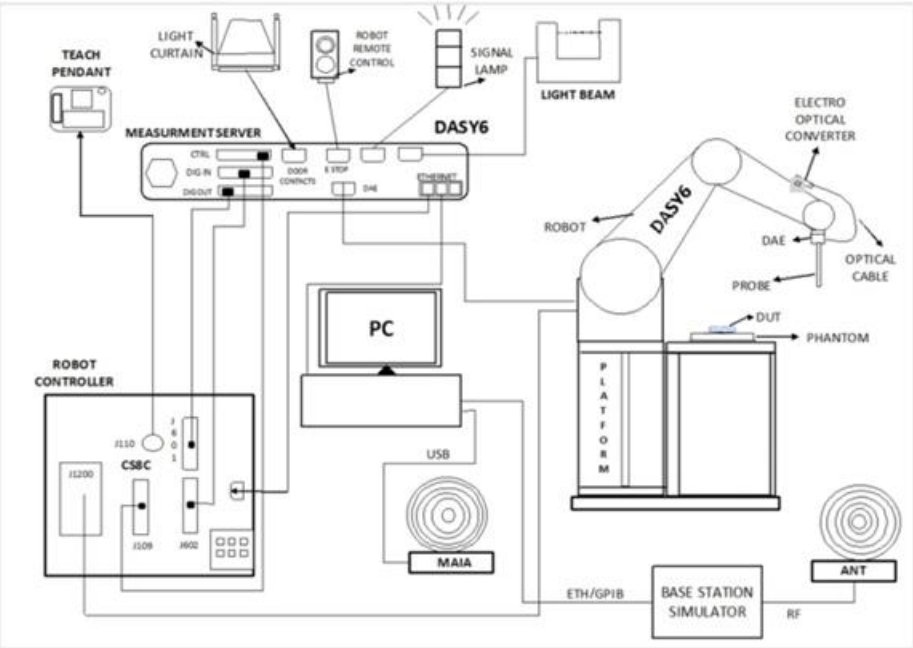
Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.

Device Holder

2.3 PD system

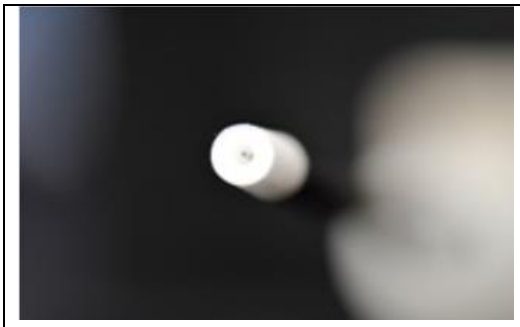
Block Diagram (DASY6)

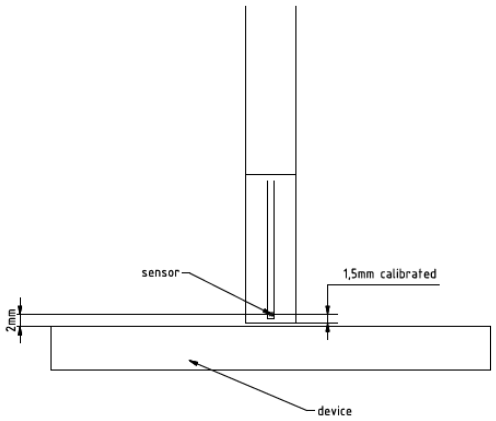
Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



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, 120º rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam.Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz

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

mmWave Phantom

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

3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

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

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
2402	39.282	1.757	39.000	1.783	-0.72%	1.45%	± 5%	Aug. 22, 2024
2412	39.265	1.766	38.983	1.791	-0.72%	1.40%	± 5%	
2437	39.222	1.788	38.938	1.813	-0.72%	1.37%	± 5%	
2441	39.215	1.792	38.931	1.816	-0.73%	1.34%	± 5%	
2450	39.200	1.800	38.915	1.824	-0.73%	1.33%	± 5%	
2462	39.184	1.813	38.900	1.835	-0.72%	1.22%	± 5%	
2480	39.160	1.832	38.877	1.851	-0.72%	1.04%	± 5%	
5210	35.990	4.670	35.689	4.654	-0.84%	-0.34%	± 5%	Aug. 23, 2024
5250	35.950	4.710	35.644	4.695	-0.85%	-0.32%	± 5%	
5290	35.910	4.750	35.598	4.736	-0.87%	-0.29%	± 5%	
5530	35.605	4.997	35.324	4.983	-0.79%	-0.27%	± 5%	
5570	35.545	5.039	35.278	5.024	-0.75%	-0.29%	± 5%	
5600	35.500	5.070	35.244	5.054	-0.72%	-0.32%	± 5%	
5610	35.490	5.080	35.232	5.064	-0.73%	-0.31%	± 5%	
5690	35.410	5.160	35.141	5.146	-0.76%	-0.27%	± 5%	
5750	35.350	5.220	35.072	5.207	-0.79%	-0.25%	± 5%	
5775	35.325	5.245	35.044	5.233	-0.80%	-0.23%	± 5%	
5815	35.285	5.286	34.998	5.274	-0.81%	-0.22%	± 5%	
5850	35.250	5.323	34.958	5.310	-0.83%	-0.23%	± 5%	
6105	34.974	5.604	34.660	5.573	-0.90%	-0.55%	± 5%	Aug. 24, 2024
6265	34.782	5.793	34.468	5.740	-0.90%	-0.91%	± 5%	
6500	34.500	6.070	34.186	5.986	-0.91%	-1.38%	± 5%	
6505	34.494	6.076	34.180	5.992	-0.91%	-1.38%	± 5%	
6585	34.398	6.169	34.084	6.076	-0.91%	-1.50%	± 5%	
6745	34.206	6.354	33.892	6.246	-0.92%	-1.70%	± 5%	
6985	33.918	6.633	33.604	6.502	-0.93%	-1.97%	± 5%	
6905	34.014	6.540	33.700	6.417	-0.92%	-1.88%	± 5%	
7000	33.900	6.650	33.586	6.518	-0.93%	-1.98%	± 5%	

3.4 The composition of the tissue simulating liquid:

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

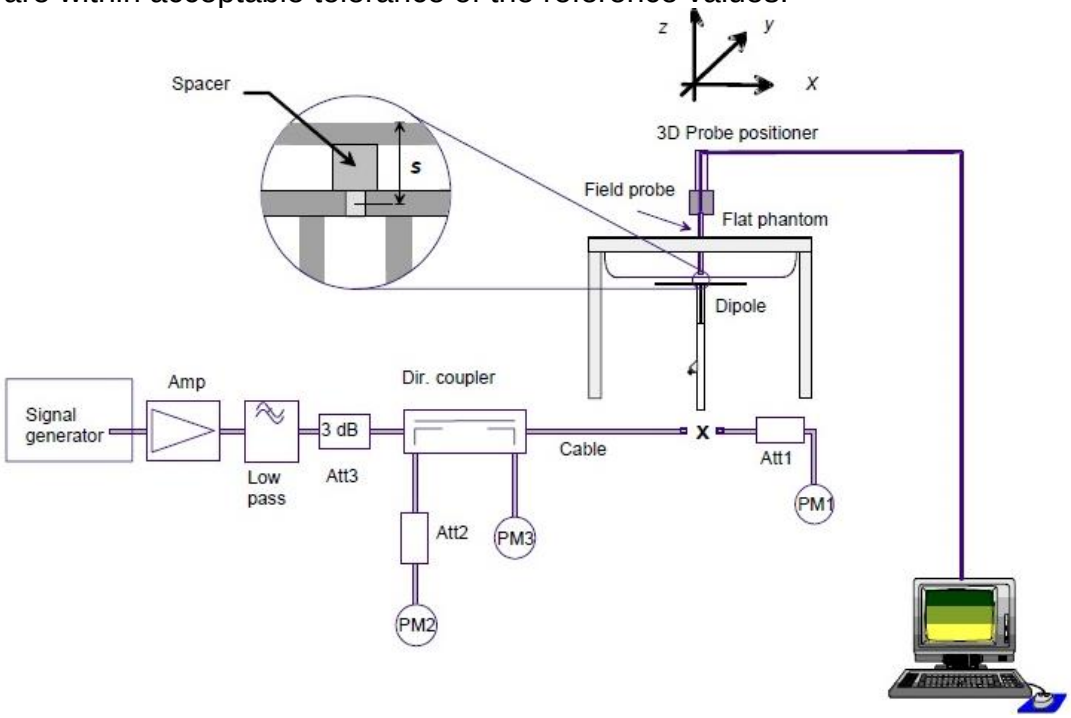
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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

3.6 System check results

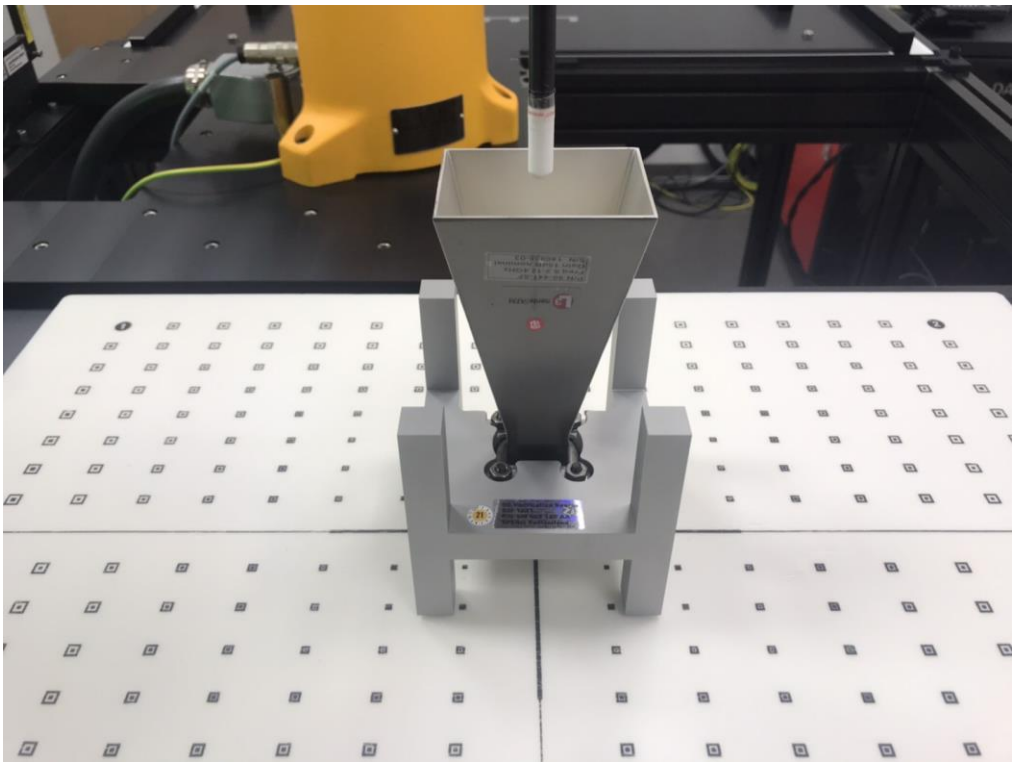
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.7	13.7	54.8	3.98	± 10%	Aug.24,2024
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	78.8	7.84	78.4	-0.51	± 10%	Aug.23,2024
D5GHzV2	1023	5600	81.3	8	80	-1.60	± 10%	Aug.23,2024
D5GHzV2	1023	5750	78	8.17	81.7	4.74	± 10%	Aug.24,2024
D5GHzV2	1023	5850	78.6	8.16	81.6	3.82	± 10%	Aug.24,2024
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1029	6500	293	28.8	288	-1.71	± 10%	Aug.24,2024
D7GHzV2	1009	7000	282	27.6	276	-2.13	± 10%	Aug.24,2024

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

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	1000	9635	558	10	93.3	55.3	56.2	-0.07	Aug.25,2024

5 TEST CONFIGURATIONS

5.1 Test Environment

Ambient Temperature: 22±2° C
Tissue Simulating Liquid: 22±2° C

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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

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

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.

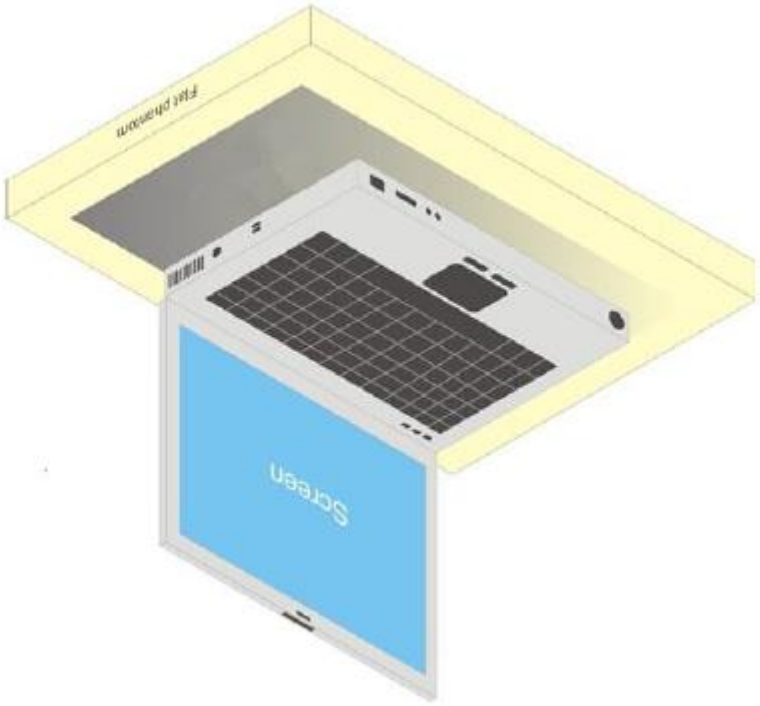


Illustration for Laptop Setup

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.

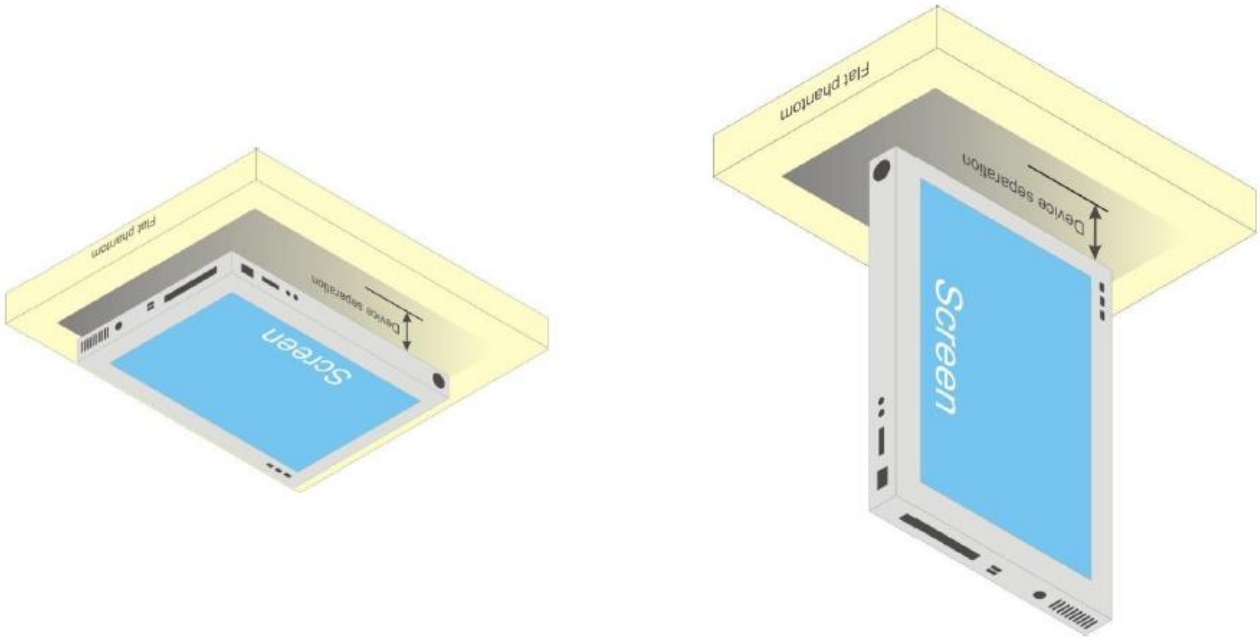


Illustration for Tablet Setup

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.

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.

Device mode verification by power measurement

Antenna	Operation mode	Lid angle	802.11b	802.11ac80-VHT0	802.11ac(160M) 5.2G	802.11ac80-VHT0	802.11ac80-VHT0	802.11ac160-VHT0	802.11ac80-VHT0	802.11ac160-VHT0	802.11be320-EHT0	802.11ax160-HE0	802.11be320-EHT0	802.11be320-EHT0
Tx1	Lid close	0°									0.00		0.00	
	Notebook	10°	20.90	17.17	17.16	17.14	17.16	17.03	17.16	17.18	11.65	11.62	11.61	11.54
		5°	20.89	17.02	17.01	17.19	17.06	17.19	17.04	17.07	11.57	11.67	11.64	11.70
	Lid close	0°												
		1°												
		2°												
		3°												
	Notebook	4°	20.92	17.12	17.09	17.11	17.00	17.00	17.03	17.12	11.51	11.63	11.69	11.65
		5°	20.92	17.01	17.00	17.02	17.15	17.01	17.17	17.03	11.51	11.69	11.64	11.51
		6°	20.95	17.03	17.17	17.01	17.06	17.06	17.20	17.17	11.70	11.68	11.58	11.67
		7°	20.95	17.14	17.11	17.13	17.12	17.13	17.12	17.14	11.60	11.65	11.60	11.50
		8°	20.90	17.08	17.20	17.04	17.12	17.14	17.13	17.11	11.53	11.55	11.59	11.62
		9°	20.89	17.16	17.08	17.19	17.11	17.19	17.00	17.07	11.69	11.58	11.50	11.68
		10°	20.90	17.01	17.04	17.19	17.03	17.06	17.01	17.06	11.51	11.61	11.64	11.55
		20°	20.84	17.12	17.11	17.16	17.20	17.14	17.19	17.09	11.68	11.53	11.51	11.57
		30°	20.76	17.10	17.17	17.08	17.06	17.15	17.17	17.06	11.66	11.56	11.55	11.70
		40°	20.80	17.05	17.10	17.10	17.01	17.16	17.08	17.05	11.59	11.60	11.52	11.63
		50°	20.87	17.16	17.16	17.06	17.12	17.12	17.06	17.16	11.53	11.61	11.60	11.53
		60°	20.81	17.15	17.05	17.15	17.03	17.01	17.06	17.09	11.61	11.65	11.61	11.58
		70°	20.89	17.13	17.11	17.11	17.15	17.16	17.20	17.04	11.60	11.50	11.55	11.67
		80°	20.81	17.16	17.01	17.20	17.02	17.09	17.13	17.18	11.63	11.56	11.62	11.62
		90°	20.90	17.12	17.15	17.07	17.03	17.16	17.13	17.17	11.61	11.61	11.54	11.59
		100°	20.85	17.12	17.13	17.12	17.13	17.15	17.09	17.07	11.51	11.54	11.58	11.61
		110°	20.75	17.18	17.08	17.15	17.03	17.15	17.01	17.14	11.54	11.52	11.55	11.69
		120°	20.75	17.12	17.05	17.10	17.01	17.14	17.16	17.05	11.58	11.61	11.67	11.59
		130°	20.80	17.09	17.20	17.06	17.10	17.12	17.03	17.10	11.62	11.67	11.53	11.64
		140°	20.91	17.02	17.00	17.11	17.15	17.10	17.13	17.17	11.70	11.63	11.51	11.61
		150°	20.84	17.19	17.14	17.04	17.04	17.12	17.09	17.19	11.61	11.55	11.64	11.59
		160°	20.94	17.08	17.00	17.19	17.18	17.00	17.11	17.03	11.70	11.58	11.65	11.69
		170°	20.83	17.06	17.03	17.13	17.18	17.17	17.08	17.03	11.59	11.51	11.66	11.67
		180°	20.85	17.01	17.12	17.04	17.04	17.10	17.16	17.05	11.53	11.61	11.55	11.56
		190°	20.77	17.15	17.17	17.08	17.08	17.11	17.06	17.15	11.68	11.56	11.63	11.59
		200°	20.84	17.13	17.11	17.10	17.14	17.06	17.03	17.09	11.59	11.53	11.52	11.59
		195°	20.80	17.12	17.04	17.07	17.02	17.01	17.01	17.04	11.52	11.63	11.56	11.64
		196°	20.75	17.19	17.16	17.12	17.14	17.05	17.11	17.19	11.55	11.62	11.63	11.54
		197°	20.86	17.18	17.13	17.13	17.12	17.01	17.14	17.12	11.61	11.59	11.65	11.63
		198°	20.79	17.17	17.07	17.18	17.08	17.05	17.17	17.12	11.69	11.69	11.52	11.52
		199°	20.76	17.17	17.04	17.02	17.15	17.02	17.16	17.09	11.53	11.63	11.62	11.62
	Tablet mode	200°	14.61	10.12	10.07	10.08	7.53	7.61	7.63	7.63	8.04	8.05	8.04	8.18
		201°	14.59	10.13	10.15	10.11	7.55	7.61	7.69	7.68	8.09	8.10	8.09	8.10
		202°	14.57	10.18	10.12	10.18	7.55	7.60	7.52	7.52	8.04	8.14	8.01	8.16
		203°	14.63	10.06	10.17	10.16	7.60	7.67	7.69	7.60	8.08	8.02	8.14	8.10
		204°	14.59	10.01	10.17	10.06	7.57	7.54	7.66	7.68	8.02	8.00	8.03	8.01
		205°	14.67	10.00	10.04	10.20	7.69	7.61	7.64	7.66	8.19	8.14	8.03	8.14
		215°	14.61	10.13	10.10	10.11	7.57	7.54	7.61	7.59	8.10	8.10	8.19	8.19
		225°	14.69	10.17	10.09	10.13	7.52	7.62	7.66	7.54	8.13	8.04	8.15	8.14
		235°	14.62	10.01	10.11	10.15	7.64	7.63	7.65	7.52	8.18	8.02	8.05	8.03
		245°	14.59	10.09	10.04	10.03	7.54	7.63	7.57	7.60	8.11	8.15	8.17	8.02
		255°	14.63	10.16	10.17	10.10	7.68	7.69	7.52	7.58	8.12	8.02	8.04	8.09
		265°	14.66	10.14	10.12	10.07	7.56	7.54	7.56	7.53	8.01	8.17	8.06	8.19
		275°	14.62	10.12	10.08	10.12	7.66	7.69	7.68	7.66	8.05	8.18	8.07	8.17
		285°	14.63	10.15	10.08	10.08	7.68	7.59	7.65	7.61	8.02	8.04	8.17	8.19
		295°	14.63	10.08	10.17	10.09	7.68	7.68	7.53	7.50	8.10	8.10	8.19	8.15
		305°	14.66	10.19	10.02	10.11	7.53	7.61	7.64	7.67	8.07	8.02	8.10	8.19
		315°	14.60	10.04	10.13	10.13	7.69	7.53	7.62	7.60	8.18	8.00	8.19	8.00
		325°	14.53	10.12	10.15	10.14	7.53	7.55	7.53	7.61	8.10	8.17	8.15	8.18
		335°	14.55	10.06	10.10	10.05	7.58	7.63	7.61	7.54	8.03	8.18	8.07	8.18
		345°	14.69	10.09	10.06	10.02	7.68	7.66	7.56	7.59	8.00	8.18	8.06	8.11
		355°	14.54	10.00	10.16	10.12	7.64	7.58	7.51	7.60	8.12	8.09	8.17	8.06
		360°	14.64	10.10	10.06	10.08	7.55	7.63	7.59	7.51	8.08	8.06	8.05	8.18
		350°	14.68	10.19	10.15	10.05	7.53	7.62	7.59	7.54	8.19	8.14	8.03	8.10
		340°	14.58	10.05	10.07	10.07	7.58	7.61	7.63	7.54	8.01	8.14	8.05	8.11
		330°	14.65	10.00	10.02	10.03	7.64	7.57	7.55	7.64	8.13	8.17	8.11	8.06
		320°	14.68	10.12	10.03	10.12	7.69	7.58	7.57	7.70	8.18	8.12	8.18	8.11
		310°	14.63	10.12	10.14	10.09	7.67	7.55	7.51	7.52	8.03	8.08	8.06	8.02
		300°	14.61	10.01	10.02	10.05	7.51	7.62	7.58	7.64	8.03	8.09	8.15	8.10
		290°	14.64	10.18	10.14	10.19	7.51	7.59	7.52	7.53	8.07	8.07	8.10	8.19
		280°	14.62	10.08	10.07	10.18	7.60	7.68	7.62	7.53	8.00	8.11	8.06	8.11
		270°	14.52	10.16	10.02	10.15	7.59	7.69	7.50	7.56	8.04	8.08	8.04	8.11
		260°	14.69	10.12	10.17	10.09	7.62	7.52	7.61	7.64	8.15	8.16	8.08	8.19
		250°	14.65	10.03	10.09	10.16	7.62	7.67	7.65	7.60	8.00	8.08	8.20	8.02
		240°	14.61	10.19	10.15	10.18	7.64	7.69	7.61	7.60	8.18	8.07	8.02	8.12
		230°	14.57	10.17	10.00	10.11	7.55	7.52	7.66	7.54	8.07	8.07	8.12	8.01
		220°	14.65	10.18	10.04	10.05	7.54	7.59	7.61	7.65	8.13	8.13	8.01	8.03
		210°	14.52	10.02	10.10	10.04	7.61	7.60	7.62	7.54	8.15	8.06	8.05	8.12
		200°	14.64	10.01	10.03	10.13	7.70	7.63	7.56	7.51	8.03	8.13	8.14	8.00
	Notebook	190°	20.75	17.14	17.17	17.12	17.13	17.04	17.11	17.03	11.52	11.56	11.69	11.57
		195°	20.77	17.12	17.16	17.03	17.01	17.16	17.04	17.06	11.66	11.60	11.67	11.68
	Tablet mode	200°	14.53	10.09	10.12	10.06	7.53	7.52	7.69	7.57	8.11	8.20	8.01	8.17
	Notebook	199°	20.81	17.02	17.05	17.03	17.06	17.18	17.10	17.02	11.64	11.58	11.63	11.52
		198°	20.75	17.19	17.20	17.00	17.05	17.18	17.11	17.08	11.52	11.59	11.54	11.65
		197°	20.88	17.12	17.16	17.05	17.06	17.09	17.17	17.04	11.59	11.63	11.60	11.51
		196°	20.88	17.11	17.15	17.06	17.08	17.11	17.17	17.20	11.69	11.64	11.69	11.62
		195°	20.90	17.03	17.17	17.15	17.01	17.01	17.13	17.10	11.50	11.54	11.68	11.68
		194°	20.90	17.12	17.09	17.04	17.05	17.20	17.18	17.18	11.67	11.54	11.57	11.62
		193°	20.92	17.11	17.15	17.07	17.07	17.01	17.09	17.13	11.61	11.64	11.65	11.54
		192°	20.93	17.16	17.03	17.12	17.00	17.18	17.07	17.15	11.51	11.68	11.54	11.62
		191°	20.90	17.12	17.14	17.13	17.03	17.18	17.18	17.10	11.65	11.50	11.53	11.68
		190°	20.77	17.15	17.12	17.17	17.09	17.02	17.07	17.03	11.54	11.58	11.63	11.69
		180°	20.83	17.17	17.09	17.06	17.07	17.03	17.08	17.01	11.66	11.63	11.57	11.57
		170°	20.80	17.19	17.10	17.10	17.07	17.06	17.11	17.13	11.61	11.58	11.66	11.68
		160°	20.94	17.13	17.14	17.18	17.16	17.06	17.02	17.05	11.67	11.62	11.51	11.53
	Notebook	150°	20.88	17.11	17.02	17.16	17.16	17.16	17.16	17.01	11.59	11.57	11.67	11.67
		140°	20.77	17.18	17.05	17.04	17.04	17.17	17.12	17.14	11.65	11.59	11.57	11.50
		130°	20.86	17.05	17.03	17.00	17.11	17.00	17.01	17.03	11.53	11.69	11.69	11.64
		120°	20.92	17.08	17.09	17.00	17.19	17.04	17.05	17.10	11.55	11.54	11.69	11.69
		110°	20.90	17.08	17.11	17.14	17.19	17.00	17.06	17.14	11.58	11.63	11.64	11.53
		100°	20.77	17.03	17.17	17.09	17.08	17.04	17.19	17.04	11.69	11.67	11.65	11.59
		90°	20.92	17.13	17.10	17.19	17.10	17.14	17.06	17.06	11.63	11.53	11.61	11.59
		80°	20.92	17.11	17.12	17.14	17.01	17.10	17.10	17.09	11.60	11.57	11.70	11.65
		70°	20.95	17.13	17.13	17.11	17.09	17.05	17.20	17.07	11.55	11.64	11.69	11.64
		60°	20.84	17.15	17.02	17.01	17.05	17.04	17.16	17.04	11.68	11.67	11.68	11.62
		50°	20.80	17.01	17.19	17.19	17.19	17.15	17.05	17.09	11.57	11.65	11.66	11.57
		40°	20.93	17.01	17.15	17.06	17.09	17.14	17.13	17.15	11.51	11.51	11.58	11.56
		30°	20.78	17.02	17.12	17.11	17.11	17.07	17.18	17.11	11.69	11.60	11.62	11.62
		20°	20.81	17.06	17.16	17.12	17.20	17.18	17.03	17.17	11.51	11.58	11.55	11.70
		10°	20.88	17.17	17.14	17.06	17.04	17.09	17.05	17.18	11.52	11.69	11.55	11.51
	Lid close	0°	14.55	10.08	10.02	10.10	7.57	7.68	7.52	7.59	8.15	8.05	8.02	8.12
	Notebook	5°	20.87	17.09	17.20	17.02	17.04	17.14	17.10	17.11	11.52	11.66	11.54	11.56
		4°	20.83	17.06	17.04	17.06	17.11	17.12	17.06	17.19	11.56	11.65	11.66	11.69
	Lid close	3°												
		2°												
		1°												
		0°												

Antenna	Operation mode	Lid angle	802.11b	802.11ac160-VHT0	802.11ac80-VHT0	802.11ac160-VHT0	802.11ac80-VHT0	802.11ac160-VHT0	802.11be320-EHT0	802.11ax160-HE0	802.11be320-EHT0	802.11be320-EHT0
Tx2	Lid close	0°										
	Notebook	10°	20.83	16.03	16.14	16.08	16.03	16.03	12.09	12.08	12.12	12.04
		5°	20.88	16.01	16.01	16.13	16.12	16.17	12.09	12.03	12.13	12.17
	Lid close	0°										
		1°										
		2°										
		3°										
	Notebook	4°	20.90	16.18	16.03	16.09	16.13	16.05	12.13	12.05	12.17	12.15
		5°	20.80	16.11	16.06	16.06	16.13	16.15	12.07	12.10	12.00	12.12
		6°	20.83	16.16	16.18	16.01	16.08	16.14	12.18	12.11	12.10	12.10
		7°	20.84	16.14	16.11	16.01	16.18	16.07	12.16	12.18	12.02	12.20
		8°	20.93	16.02	16.07	16.16	16.11	16.16	12.08	12.13	12.19	12.09
		9°	20.86	16.01	16.01	16.15	16.14	16.18	12.02	12.11	12.04	12.06
		10°	20.89	16.15	16.14	16.16	16.20	16.15	12.08	12.15	12.19	12.11
		20°	20.83	16.20	16.12	16.01	16.03	16.10	12.07	12.17	12.09	12.12
		30°	20.76	16.18	16.07	16.20	16.11	16.20	12.13	12.15	12.05	12.18
		40°	20.78	16.12	16.09	16.15	16.06	16.03	12.03	12.11	12.03	12.08
		50°	20.84	16.09	16.19	16.10	16.05	16.06	12.02	12.02	12.01	12.03
		60°	20.88	16.15	16.17	16.07	16.08	16.13	12.10	12.03	12.15	12.16
		70°	20.76	16.03	16.15	16.15	16.16	16.02	12.15	12.02	12.07	12.12
		80°	20.87	16.01	16.03	16.15	16.02	16.08	12.04	12.09	12.06	12.04
		90°	20.95	16.03	16.04	16.15	16.15	16.13	12.01	12.16	12.18	12.08
		100°	20.78	16.06	16.16	16.14	16.15	16.19	12.13	12.15	12.06	12.12
		110°	20.92	16.11	16.10	16.11	16.08	16.08	12.05	12.04	12.14	12.11
		120°	20.76	16.17	16.20	16.18	16.02	16.19	12.12	12.07	12.01	12.17
		130°	20.95	16.17	16.11	16.07	16.16	16.14	12.19	12.06	12.19	12.05
		140°	20.75	16.09	16.18	16.17	16.13	16.08	12.05	12.19	12.09	12.04
		150°	20.87	16.09	16.05	16.15	16.16	16.14	12.06	12.13	12.05	12.19
		160°	20.84	16.14	16.09	16.13	16.15	16.07	12.06	12.17	12.10	12.12
		170°	20.87	16.12	16.10	16.14	16.17	16.02	12.16	12.17	12.03	12.02
		180°	20.91	16.11	16.04	16.17	16.04	16.20	12.11	12.11	12.08	12.16
		190°	20.92	16.08	16.00	16.01	16.08	16.17	12.17	12.05	12.12	12.11
		200°	20.88	16.10	16.20	16.02	16.06	16.18	12.07	12.05	12.03	12.14
		195°	20.76	16.00	16.05	16.19	16.18	16.10	12.13	12.09	12.08	12.16
		196°	20.84	16.07	16.02	16.12	16.19	16.01	12.03	12.07	12.09	12.12
		197°	20.91	16.15	16.03	16.17	16.18	16.12	12.05	12.04	12.10	12.12
		198°	20.85	16.18	16.08	16.01	16.08	16.16	12.19	12.08	12.06	12.07
		199°	20.90	16.11	16.12	16.07	16.04	16.03	12.15	12.03	12.10	12.11
	Tablet mode	200°	15.59	13.20	10.01	9.62	8.67	8.14	6.50	6.63	6.68	6.61
		201°	15.65	13.09	10.09	9.60	8.54	8.03	6.56	6.54	6.64	6.63
		202°	15.66	13.10	10.03	9.70	8.65	8.10	6.58	6.59	6.55	6.64
		203°	15.64	13.03	10.10	9.65	8.51	8.07	6.68	6.68	6.57	6.62
		204°	15.55	13.02	10.07	9.54	8.51	8.11	6.53	6.59	6.61	6.53
		205°	15.52	13.06	10.12	9.58	8.51	8.20	6.57	6.62	6.63	6.53
		215°	15.55	13.17	10.10	9.51	8.64	8.02	6.60	6.64	6.56	6.53
		225°	15.57	13.04	10.13	9.63	8.61	8.20	6.65	6.57	6.64	6.62
		235°	15.57	13.02	10.12	9.64	8.60	8.17	6.68	6.67	6.55	6.67
		245°	15.66	13.05	10.01	9.63	8.66	8.02	6.60	6.59	6.50	6.62
		255°	15.51	13.17	10.06	9.69	8.61	8.05	6.52	6.62	6.66	6.53
		265°	15.54	13.12	10.13	9.68	8.55	8.16	6.69	6.65	6.51	6.55
		275°	15.64	13.16	10.00	9.52	8.60	8.09	6.64	6.61	6.68	6.64
		285°	15.53	13.09	10.09	9.59	8.52	8.15	6.60	6.60	6.66	6.59
		295°	15.56	13.19	10.15	9.58	8.54	8.09	6.50	6.66	6.52	6.60
		305°	15.69	13.19	10.07	9.59	8.69	8.15	6.64	6.59	6.60	6.66
		315°	15.65	13.20	10.05	9.64	8.53	8.05	6.52	6.50	6.60	6.60
		325°	15.57	13.06	10.12	9.63	8.66	8.06	6.58	6.67	6.58	6.51
		335°	15.62	13.07	10.06	9.67	8.67	8.04	6.67	6.55	6.66	6.68
		345°	15.54	13.10	10.08	9.56	8.65	8.14	6.70	6.50	6.58	6.60
		355°	15.61	13.15	10.13	9.64	8.54	8.13	6.57	6.64	6.68	6.58
		360°	15.68	13.01	10.05	9.51	8.55	8.09	6.63	6.52	6.63	6.61
		350°	15.66	13.06	10.08	9.62	8.56	8.14	6.63	6.69	6.62	6.52
		340°	15.56	13.03	10.19	9.59	8.54	8.05	6.60	6.62	6.58	6.58
		330°	15.68	13.01	10.01	9.53	8.63	8.03	6.67	6.56	6.59	6.59
		320°	15.57	13.11	10.03	9.60	8.56	8.08	6.51	6.66	6.68	6.53
		310°	15.69	13.18	10.05	9.64	8.55	8.12	6.64	6.66	6.67	6.51
		300°	15.67	13.19	10.04	9.54	8.70	8.13	6.61	6.53	6.53	6.66
		290°	15.58	13.18	10.10	9.61	8.64	8.01	6.62	6.61	6.67	6.51
		280°	15.56	13.05	10.04	9.61	8.61	8.18	6.50	6.63	6.69	6.55
		270°	15.51	13.04	10.14	9.58	8.65	8.19	6.68	6.57	6.62	6.57
		260°	15.62	13.04	10.12	9.64	8.54	8.13	6.63	6.60	6.50	6.61
		250°	15.56	13.08	10.09	9.60	8.63	8.09	6.56	6.55	6.58	6.68
		240°	15.63	13.05	10.00	9.60	8.51	8.08	6.69	6.66	6.51	6.51
		230°	15.58	13.14	10.19	9.51	8.56	8.07	6.54	6.65	6.62	6.51
		220°	15.60	13.07	10.19	9.58	8.56	8.01	6.51	6.60	6.66	6.50
		210°	15.68	13.14	10.17	9.51	8.53	8.13	6.53	6.62	6.65	6.65
		200°	15.64	13.17	10.03	9.69	8.60	8.09	6.69	6.59	6.67	6.67
	Notebook	190°	20.83	16.17	16.06	16.01	16.04	16.20	12.17	12.10	12.12	12.11
		195°	20.89	16.20	16.09	16.09	16.17	16.02	12.08	12.06	12.10	12.00
	Tablet mode	200°	15.52	13.17	10.01	9.61	8.69	8.15	6.68	6.65	6.66	6.58
	Notebook	199°	20.81	16.02	16.15	16.04	16.07	16.20	12.02	12.02	12.11	12.12
		198°	20.79	16.10	16.04	16.06	16.11	16.19	12.18	12.06	12.17	12.19
		197°	20.93	16.12	16.05	16.19	16.13	16.19	12.15	12.02	12.00	12.17
		196°	20.89	16.11	16.17	16.17	16.11	16.04	12.09	12.04	12.16	12.07
		195°	20.84	16.01	16.02	16.06	16.19	16.14	12.10	12.17	12.15	12.16
		194°	20.82	16.16	16.11	16.19	16.18	16.17	12.12	12.02	12.09	12.18
		193°	20.92	16.18	16.02	16.20	16.18	16.12	12.00	12.10	12.17	12.13
		192°	20.79	16.02	16.05	16.10	16.01	16.12	12.16	12.15	12.19	12.08
		191°	20.93	16.18	16.06	16.04	16.09	16.09	12.01	12.09	12.11	12.10
		190°	20.82	16.14	16.07	16.19	16.10	16.05	12.14	12.13	12.19	12.11
		180°	20.88	16.06	16.03	16.11	16.12	16.10	12.06	12.18	12.13	12.15
		170°	20.83	16.17	16.02	16.19	16.13	16.13	12.07	12.14	12.02	12.03
		160°	20.81	16.09	16.10	16.11	16.19	16.07	12.11	12.00	12.04	12.02
		150°	20.80	16.09	16.03	16.09	16.04	16.13	12.13	12.16	12.13	12.06
		140°	20.92	16.09	16.05	16.14	16.04	16.05	12.10	12.19	12.08	12.04
		130°	20.77	16.16	16.09	16.04	16.07	16.07	12.03	12.01	12.20	12.19
		120°	20.87	16.09	16.08	16.04	16.04	16.01	12.11	12.03	12.06	12.18
		110°	20.77	16.02	16.12	16.16	16.05	16.19	12.19	12.09	12.01	12.14
		100°	20.76	16.11	16.03	16.05	16.15	16.12	12.19	12.07	12.04	12.10
		90°	20.81	16.04	16.01	16.11	16.17	16.02	12.15	12.03	12.13	12.03
		80°	20.87	16.08	16.08	16.05	16.06	16.05	12.13	12.14	12.05	12.02
		70°	20.93	16.01	16.10	16.02	16.05	16.00	12.03	12.00	12.04	12.06
		60°	20.83	16.05	16.03	16.12	16.18	16.02	12.02	12.16	12.11	12.08
		50°	20.90	16.19	16.20	16.06	16.02	16.15	12.01	12.02	12.02	12.19
		40°	20.94	16.19	16.06	16.02	16.15	16.00	12.17	12.15	12.19	12.09
		30°	20.90	16.06	16.16	16.16	16.20	16.14	12.07	12.12	12.12	12.04
		20°	20.85	16.05	16.03	16.03	16.08	16.06	12.08	12.10	12.01	12.07
		10°	20.86	16.15	16.11	16.19	16.15	16.10	12.09	12.05	12.04	12.08
	Lid close	0°	15.59	13.07	10.18	9.62	8.60	8.14	6.50	6.68	6.61	6.66
	Notebook	5°	20.94	16.08	16.06	16.16	16.08	16.00	12.14	12.09	12.15	12.20
		4°	20.89	16.03	16.09	16.02	16.17	16.04	12.10	12.09	12.15	12.04
	Lid close	3°										
		2°										
		1°										
		0°										

5.5 Test limit

§ 2.1093(d)(1)
Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.
Radiofrequency radiation exposure limits.
§ 1.1310(a)
Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).
§ 1.1310(b)
The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.
§ 1.1310(c)
The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):
SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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

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)

6 MAXIMUM OUTPUT POWER

6.1 WLAN

NB

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	21.25	21.19
		6	2437		22.75	22.74
		11	2462		22.75	22.72
	802.11g	1	2412	6Mbps	21.25	21.05
		6	2437		22.00	21.86
		11	2462		22.00	21.89
	802.11n20-HT0	1	2412	MCS0	21.25	21.11
		6	2437		22.00	21.86
		11	2462		21.75	21.65
	802.11ax20-HE0	1	2412	MCS0	21.25	21.13
		6	2437		22.00	21.84
		11	2462		21.75	21.49
	802.11be20-EHT0	1	2412	MCS0	21.25	21.08
		6	2437		22.00	21.74
		11	2462		21.75	21.49
	802.11n40-HT0	3	2422	MCS0	20.25	20.06
		6	2437		21.00	20.79
		9	2452		20.25	20.03
	802.11ax40-HE0	3	2422	MCS0	20.00	19.90
		6	2437		20.75	20.62
		9	2452		20.25	19.99
	802.11be40-EHT0	3	2422	MCS0	20.00	19.90
		6	2437		20.75	20.60
		9	2452		20.25	20.10

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	19.00	18.95
		40	5200		19.00	18.98
		44	5220		19.00	18.79
		48	5240		19.00	18.95
	802.11n20-HT0	36	5180	MCS0	19.00	18.93
		40	5200		19.00	18.96
		44	5220		19.00	18.83
		48	5240		19.00	18.80
	802.11ax20-HE0	36	5180	MCS0	19.00	18.84
		40	5200		19.00	18.84
		44	5220		19.00	18.94
		48	5240		19.00	18.80
	802.11be20-EHT0	36	5180	MCS0	19.00	18.90
		40	5200		19.00	18.86
		44	5220		19.00	18.98
		48	5240		19.00	18.84
	802.11n40-HT0	38	5190	MCS0	19.00	18.82
		46	5230		19.00	18.84
	802.11ax40-HE0	38	5190	MCS0	19.00	18.83
		46	5230		19.00	18.91
	802.11be40-EHT0	38	5190	MCS0	19.00	18.87
		46	5230		19.00	18.89
	802.11ac80-VHT0	42	5210	MCS0	19.00	18.99
	802.11ax80-HE0	42	5210	MCS0	19.00	18.93
	802.11be80-EHT0	42	5210	MCS0	19.00	18.87
	802.11ac160-VHT0	50	5250	MCS0	18.00	17.86
	802.11ax160-HE0	50	5250	MCS0	18.00	17.80
	802.11be160-EHT0	50	5250	MCS0	18.00	17.87

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	19.00	18.89
		56	5280		19.00	18.97
		60	5300		19.00	18.84
		64	5320		19.00	18.89
	802.11n20-HT0	52	5260	MCS0	19.00	18.85
		56	5280		19.00	18.82
		60	5300		19.00	18.87
		64	5320		19.00	18.95
	802.11ax20-HE0	52	5260	MCS0	19.00	18.89
		56	5280		19.00	18.96
		60	5300		19.00	18.87
		64	5320		19.00	18.94
	802.11be20-EHT0	52	5260	MCS0	19.00	18.86
		56	5280		19.00	18.96
		60	5300		19.00	18.81
		64	5320		19.00	18.88
	802.11n40-HT0	54	5270	MCS0	19.00	18.97
		62	5310		19.00	18.86
	802.11ax40-HE0	54	5270	MCS0	19.00	18.91
		62	5310		19.00	18.91
	802.11be40-EHT0	54	5270	MCS0	19.00	18.84
		62	5310		19.00	18.94
	802.11ac80-VHT0	58	5290	MCS0	19.00	18.99
	802.11ax80-HE0	58	5290	MCS0	19.00	18.88
	802.11be80-EHT0	58	5290	MCS0	19.00	18.90

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	19.00	18.86
		120	5600		19.00	18.81
		140	5700		19.00	18.80
		144	5720		19.00	18.78
	802.11n20-HT0	100	5500	MCS0	19.00	18.88
		120	5600		19.00	18.93
		140	5700		19.00	18.75
		144	5720		19.00	18.77
	802.11ax20-HE0	100	5500	MCS0	19.00	18.84
		120	5600		19.00	18.89
		140	5700		19.00	18.92
		144	5720		19.00	18.78
	802.11be20-EHT0	100	5500	MCS0	19.00	18.87
		120	5600		19.00	18.78
		140	5700		19.00	18.75
		144	5720		19.00	18.90
	802.11n40-HT0	102	5510	MCS0	19.00	18.74
		118	5590		19.00	18.89
		134	5670		19.00	18.75
		142	5710		19.00	18.89
	802.11ax40-HE0	102	5510	MCS0	19.00	18.93
		118	5590		19.00	18.89
		134	5670		19.00	18.77
		142	5710		19.00	18.89
	802.11be40-EHT0	102	5510	MCS0	19.00	18.73
		118	5590		19.00	18.82
		134	5670		19.00	18.77
		142	5710		19.00	18.77
	802.11ac80-VHT0	106	5530	MCS0	19.00	18.93
		122	5610		19.00	18.92
		138	5690		19.00	18.95
	802.11ax80-HE0	106	5530	MCS0	19.00	18.89
		122	5610		19.00	18.87
		138	5690		19.00	18.92
	802.11be80-EHT0	106	5530	MCS0	19.00	18.91
		122	5610		19.00	18.78
		138	5690		19.00	18.86
	802.11ac160-VHT0	114	5570	MCS0	18.75	18.65
	802.11ax160-HE0	114	5570	MCS0	18.75	18.60
	802.11be160-EHT0	114	5570	MCS0	18.75	18.57

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	19.00	18.84
		157	5785		19.00	18.89
		165	5825		19.00	18.89
	802.11n20-HT0	149	5745	MCS0	19.00	18.75
		157	5785		19.00	18.76
		165	5825		19.00	18.88
	802.11ax20-HE0	149	5745	MCS0	19.00	18.86
		157	5785		19.00	18.83
		165	5825		19.00	18.89
	802.11be20-EHT0	149	5745	MCS0	19.00	18.83
		157	5785		19.00	18.89
		165	5825		19.00	18.87
	802.11n40-HT0	151	5755	MCS0	19.00	18.84
		159	5795		19.00	18.89
	802.11ax40-HE0	151	5755	MCS0	19.00	18.80
		159	5795		19.00	18.86
	802.11be40-EHT0	151	5755	MCS0	19.00	18.86
		159	5795		19.00	18.75
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.92
	802.11ax80-HE0	155	5775	MCS0	19.00	18.90
	802.11be80-EHT0	155	5775	MCS0	19.00	18.84

Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	19.00	18.80
		173	5865		19.00	18.82
		177	5885		19.00	18.97
	802.11n20-HT0	169	5845	MCS0	19.00	18.86
		173	5865		19.00	18.91
		177	5885		19.00	18.88
	802.11ax20-HE0	169	5845	MCS0	19.00	18.94
		173	5865		19.00	18.96
		177	5885		19.00	18.89
	802.11be20-EHT0	169	5845	MCS0	19.00	18.89
		173	5865		19.00	18.78
		177	5885		19.00	18.83
	802.11n40-HT0	167	5835	MCS0	19.00	18.88
		175	5875		19.00	18.95
	802.11ax40-HE0	167	5835	MCS0	19.00	18.83
		175	5875		19.00	18.86
	802.11be40-EHT0	167	5835	MCS0	19.00	18.88
		175	5875		19.00	18.93
	802.11ac80-VHT0	171	5855	MCS0	19.00	18.81
	802.11ax80-HE0	171	5855	MCS0	19.00	18.86
	802.11be80-EHT0	171	5855	MCS0	19.00	18.88
	802.11ac160-VHT0	163	5815	MCS0	19.00	18.99
	802.11ax160-HE0	163	5815	MCS0	19.00	18.95
	802.11be160-EHT0	163	5815	MCS0	19.00	18.91

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	22.00	21.99
		6	2437		22.75	22.74
		11	2462		22.00	21.98
	802.11g	1	2412	6Mbps	20.75	20.64
		6	2437		21.25	21.09
		11	2462		20.75	20.63
	802.11n20-HT0	1	2412	MCS0	20.50	20.37
		6	2437		21.00	20.90
		11	2462		20.50	20.41
	802.11ax20-HE0	1	2412	MCS0	20.25	20.20
		6	2437		21.00	20.92
		11	2462		20.75	20.54
	802.11be20-EHT0	1	2412	MCS0	20.25	20.11
		6	2437		21.00	20.84
		11	2462		20.75	20.57
	802.11n40-HT0	3	2422	MCS0	19.75	19.63
		6	2437		19.75	19.58
		9	2452		20.00	19.89
	802.11ax40-HE0	3	2422	MCS0	19.50	19.34
		6	2437		19.75	19.68
		9	2452		19.75	19.56
	802.11be40-EHT0	3	2422	MCS0	19.50	19.47
		6	2437		19.75	19.57
		9	2452		19.75	19.73

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	18.00	17.79
		40	5200		18.00	17.88
		44	5220		18.00	17.92
		48	5240		18.00	17.97
	802.11n20-HT0	36	5180	MCS0	18.00	17.84
		40	5200		18.00	17.82
		44	5220		18.00	17.96
		48	5240		18.00	17.92
	802.11ax20-HE0	36	5180	MCS0	18.00	17.88
		40	5200		18.00	17.95
		44	5220		18.00	17.88
		48	5240		18.00	17.94
	802.11be20-EHT0	36	5180	MCS0	18.00	17.87
		40	5200		18.00	17.89
		44	5220		18.00	17.96
		48	5240		18.00	17.87
	802.11n40-HT0	38	5190	MCS0	18.00	17.91
		46	5230		18.00	17.90
	802.11ax40-HE0	38	5190	MCS0	18.00	17.87
		46	5230		18.00	17.83
	802.11be40-EHT0	38	5190	MCS0	18.00	17.84
		46	5230		18.00	17.85
	802.11ac80-VHT0	42	5210	MCS0	18.00	17.86
	802.11ax80-HE0	42	5210	MCS0	18.00	17.93
	802.11be80-EHT0	42	5210	MCS0	18.00	17.96
	802.11ac160-VHT0	50	5250	MCS0	18.00	17.99
	802.11ax160-HE0	50	5250	MCS0	18.00	17.85
	802.11be160-EHT0	50	5250	MCS0	18.00	17.88

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	18.00	17.85
		56	5280		18.00	17.84
		60	5300		18.00	17.91
		64	5320		18.00	17.94
	802.11n20-HT0	52	5260	MCS0	18.00	17.88
		56	5280		18.00	17.92
		60	5300		18.00	17.88
		64	5320		18.00	17.92
	802.11ax20-HE0	52	5260	MCS0	18.00	17.83
		56	5280		18.00	17.93
		60	5300		18.00	17.90
		64	5320		18.00	17.98
	802.11be20-EHT0	52	5260	MCS0	18.00	17.89
		56	5280		18.00	17.89
		60	5300		18.00	17.85
		64	5320		18.00	17.81
	802.11n40-HT0	54	5270	MCS0	18.00	17.92
		62	5310		18.00	17.85
	802.11ax40-HE0	54	5270	MCS0	18.00	17.91
		62	5310		18.00	17.89
	802.11be40-EHT0	54	5270	MCS0	18.00	17.86
		62	5310		18.00	17.98
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.99
	802.11ax80-HE0	58	5290	MCS0	18.00	17.97
	802.11be80-EHT0	58	5290	MCS0	18.00	17.83

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	18.00	17.84
		120	5600		18.00	17.82
		140	5700		18.00	17.83
		144	5720		18.00	17.75
	802.11n20-HT0	100	5500	MCS0	18.00	17.76
		120	5600		18.00	17.84
		140	5700		18.00	17.83
		144	5720		18.00	17.91
	802.11ax20-HE0	100	5500	MCS0	18.00	17.85
		120	5600		18.00	17.78
		140	5700		18.00	17.74
		144	5720		18.00	17.78
	802.11be20-EHT0	100	5500	MCS0	18.00	17.77
		120	5600		18.00	17.89
		140	5700		18.00	17.77
		144	5720		18.00	17.92
	802.11n40-HT0	102	5510	MCS0	18.00	17.80
		118	5590		18.00	17.92
		134	5670		18.00	17.76
		142	5710		18.00	17.78
	802.11ax40-HE0	102	5510	MCS0	18.00	17.72
		118	5590		18.00	17.75
		134	5670		18.00	17.78
		142	5710		18.00	17.81
	802.11be40-EHT0	102	5510	MCS0	18.00	17.72
		118	5590		18.00	17.76
		134	5670		18.00	17.86
		142	5710		18.00	17.90
	802.11ac80-VHT0	106	5530	MCS0	18.00	17.98
		122	5610		18.00	17.92
		138	5690		18.00	17.99
	802.11ax80-HE0	106	5530	MCS0	18.00	17.76
		122	5610		18.00	17.81
		138	5690		18.00	17.75
	802.11be80-EHT0	106	5530	MCS0	18.00	17.77
		122	5610		18.00	17.79
		138	5690		18.00	17.91
	802.11ac160-VHT0	114	5570	MCS0	18.00	17.98
	802.11ax160-HE0	114	5570	MCS0	18.00	17.85
	802.11be160-EHT0	114	5570	MCS0	18.00	17.80

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	18.00	17.82
		157	5785		18.00	17.87
		165	5825		18.00	17.79
	802.11n20-HT0	149	5745	MCS0	18.00	17.87
		157	5785		18.00	17.83
		165	5825		18.00	17.91
	802.11ax20-HE0	149	5745	MCS0	18.00	17.85
		157	5785		18.00	17.86
		165	5825		18.00	17.92
	802.11be20-EHT0	149	5745	MCS0	18.00	17.89
		157	5785		18.00	17.91
		165	5825		18.00	17.94
	802.11n40-HT0	151	5755	MCS0	18.00	17.87
		159	5795		18.00	17.87
	802.11ax40-HE0	151	5755	MCS0	18.00	17.78
		159	5795		18.00	17.81
	802.11be40-EHT0	151	5755	MCS0	18.00	17.85
		159	5795		18.00	17.81
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.96
	802.11ax80-HE0	155	5775	MCS0	18.00	17.83
	802.11be80-EHT0	155	5775	MCS0	18.00	17.91

Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	18.00	17.98
		173	5865		18.00	17.80
		177	5885		18.00	17.92
	802.11n20-HT0	169	5845	MCS0	18.00	17.86
		173	5865		18.00	17.94
		177	5885		18.00	17.86
	802.11ax20-HE0	169	5845	MCS0	18.00	17.84
		173	5865		18.00	17.84
		177	5885		18.00	17.87
	802.11be20-EHT0	169	5845	MCS0	18.00	17.86
		173	5865		18.00	17.93
		177	5885		18.00	17.89
	802.11n40-HT0	167	5835	MCS0	18.00	17.87
		175	5875		18.00	17.88
	802.11ax40-HE0	167	5835	MCS0	18.00	17.82
		175	5875		18.00	17.84
	802.11be40-EHT0	167	5835	MCS0	18.00	17.88
		175	5875		18.00	17.84
	802.11ac80-VHT0	171	5855	MCS0	18.00	17.89
	802.11ax80-HE0	171	5855	MCS0	18.00	17.85
	802.11be80-EHT0	171	5855	MCS0	18.00	17.92
	802.11ac160-VHT0	163	5815	MCS0	18.00	17.99
	802.11ax160-HE0	163	5815	MCS0	18.00	17.92
	802.11be160-EHT0	163	5815	MCS0	18.00	17.82

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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	16.50	16.49
		6	2437		16.50	16.48
		11	2462		16.50	16.46
	802.11g	1	2412	6Mbps	16.50	16.35
		6	2437		16.50	16.41
		11	2462		16.50	16.28
	802.11n20-HT0	1	2412	MCS0	16.50	16.44
		6	2437		16.50	16.33
		11	2462		16.50	16.41
	802.11ax20-HE0	1	2412	MCS0	16.50	16.44
		6	2437		16.50	16.42
		11	2462		16.50	16.33
	802.11be20-EHT0	1	2412	MCS0	16.50	16.40
		6	2437		16.50	16.39
		11	2462		16.50	16.32
	802.11n40-HT0	3	2422	MCS0	16.50	16.34
		6	2437		16.50	16.42
		9	2452		16.50	16.39
	802.11ax40-HE0	3	2422	MCS0	16.50	16.35
		6	2437		16.50	16.26
		9	2452		16.50	16.35
	802.11be40-EHT0	3	2422	MCS0	16.50	16.30
		6	2437		16.50	16.32
		9	2452		16.50	16.30

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	12.00	11.84
		40	5200		12.00	11.92
		44	5220		12.00	11.92
		48	5240		12.00	11.91
	802.11n20-HT0	36	5180	MCS0	12.00	11.89
		40	5200		12.00	11.95
		44	5220		12.00	11.86
		48	5240		12.00	11.85
	802.11ax20-HE0	36	5180	MCS0	12.00	11.88
		40	5200		12.00	11.93
		44	5220		12.00	11.92
		48	5240		12.00	11.82
	802.11be20-EHT0	36	5180	MCS0	12.00	11.86
		40	5200		12.00	11.90
		44	5220		12.00	11.88
		48	5240		12.00	11.90
	802.11n40-HT0	38	5190	MCS0	12.00	11.79
		46	5230		12.00	11.90
	802.11ax40-HE0	38	5190	MCS0	12.00	11.88
		46	5230		12.00	11.87
	802.11be40-EHT0	38	5190	MCS0	12.00	11.86
		46	5230		12.00	11.79
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.95
	802.11ax80-HE0	42	5210	MCS0	12.00	11.80
	802.11be80-EHT0	42	5210	MCS0	12.00	11.95
	802.11ac160-VHT0	50	5250	MCS0	12.00	11.99
	802.11ax160-HE0	50	5250	MCS0	12.00	11.81
	802.11be160-EHT0	50	5250	MCS0	12.00	11.93

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	12.00	11.88
		56	5280		12.00	11.93
		60	5300		12.00	11.90
		64	5320		12.00	11.91
	802.11n20-HT0	52	5260	MCS0	12.00	11.95
		56	5280		12.00	11.95
		60	5300		12.00	11.83
		64	5320		12.00	11.89
	802.11ax20-HE0	52	5260	MCS0	12.00	11.80
		56	5280		12.00	11.89
		60	5300		12.00	11.91
		64	5320		12.00	11.95
	802.11be20-EHT0	52	5260	MCS0	12.00	11.80
		56	5280		12.00	11.91
		60	5300		12.00	11.87
		64	5320		12.00	11.82
	802.11n40-HT0	54	5270	MCS0	12.00	11.89
		62	5310		12.00	11.87
	802.11ax40-HE0	54	5270	MCS0	12.00	11.87
		62	5310		12.00	11.83
	802.11be40-EHT0	54	5270	MCS0	12.00	11.76
		62	5310		12.00	11.78
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.96
	802.11ax80-HE0	58	5290	MCS0	12.00	11.93
	802.11be80-EHT0	58	5290	MCS0	12.00	11.82

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	9.50	9.33
		120	5600		9.50	9.33
		140	5700		9.50	9.34
		144	5720		9.50	9.26
	802.11n20-HT0	100	5500	MCS0	9.50	9.43
		120	5600		9.50	9.43
		140	5700		9.50	9.38
		144	5720		9.50	9.39
	802.11ax20-HE0	100	5500	MCS0	9.50	9.43
		120	5600		9.50	9.36
		140	5700		9.50	9.35
		144	5720		9.50	9.38
	802.11be20-EHT0	100	5500	MCS0	9.50	9.28
		120	5600		9.50	9.26
		140	5700		9.50	9.43
		144	5720		9.50	9.40
	802.11n40-HT0	102	5510	MCS0	9.50	9.26
		118	5590		9.50	9.27
		134	5670		9.50	9.43
		142	5710		9.50	9.28
	802.11ax40-HE0	102	5510	MCS0	9.50	9.39
		118	5590		9.50	9.27
		134	5670		9.50	9.41
		142	5710		9.50	9.25
	802.11be40-EHT0	102	5510	MCS0	9.50	9.29
		118	5590		9.50	9.43
		134	5670		9.50	9.29
		142	5710		9.50	9.38
	802.11ac80-VHT0	106	5530	MCS0	9.50	9.45
		122	5610		9.50	9.43
		138	5690		9.50	9.48
	802.11ax80-HE0	106	5530	MCS0	9.50	9.29
		122	5610		9.50	9.43
		138	5690		9.50	9.43
	802.11be80-EHT0	106	5530	MCS0	9.50	9.27
		122	5610		9.50	9.26
		138	5690		9.50	9.31
	802.11ac160-VHT0	114	5570	MCS0	9.50	9.46
	802.11ax160-HE0	114	5570	MCS0	9.50	9.25
	802.11be160-EHT0	114	5570	MCS0	9.50	9.32

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	9.50	9.39
		157	5785		9.50	9.33
		165	5825		9.50	9.28
	802.11n20-HT0	149	5745	MCS0	9.50	9.27
		157	5785		9.50	9.44
		165	5825		9.50	9.28
	802.11ax20-HE0	149	5745	MCS0	9.50	9.26
		157	5785		9.50	9.37
		165	5825		9.50	9.28
	802.11be20-EHT0	149	5745	MCS0	9.50	9.36
		157	5785		9.50	9.26
		165	5825		9.50	9.30
	802.11n40-HT0	151	5755	MCS0	9.50	9.40
		159	5795		9.50	9.26
	802.11ax40-HE0	151	5755	MCS0	9.50	9.27
		159	5795		9.50	9.25
	802.11be40-EHT0	151	5755	MCS0	9.50	9.34
		159	5795		9.50	9.36
	802.11ac80-VHT0	155	5775	MCS0	9.50	9.48
	802.11ax80-HE0	155	5775	MCS0	9.50	9.33
	802.11be80-EHT0	155	5775	MCS0	9.50	9.42

Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	9.50	9.48
		173	5865		9.50	9.34
		177	5885		9.50	9.34
	802.11n20-HT0	169	5845	MCS0	9.50	9.45
		173	5865		9.50	9.39
		177	5885		9.50	9.39
	802.11ax20-HE0	169	5845	MCS0	9.50	9.46
		173	5865		9.50	9.43
		177	5885		9.50	9.40
	802.11be20-EHT0	169	5845	MCS0	9.50	9.41
		173	5865		9.50	9.29
		177	5885		9.50	9.34
	802.11n40-HT0	167	5835	MCS0	9.50	9.44
		175	5875		9.50	9.28
	802.11ax40-HE0	167	5835	MCS0	9.50	9.43
		175	5875		9.50	9.42
	802.11be40-EHT0	167	5835	MCS0	9.50	9.39
		175	5875		9.50	9.32
	802.11ac80-VHT0	171	5855	MCS0	9.50	9.42
	802.11ax80-HE0	171	5855	MCS0	9.50	9.36
	802.11be80-EHT0	171	5855	MCS0	9.50	9.42
	802.11ac160-VHT0	163	5815	MCS0	9.50	9.49
	802.11ax160-HE0	163	5815	MCS0	9.50	9.33
	802.11be160-EHT0	163	5815	MCS0	9.50	9.42

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	17.50	17.49
		6	2437		17.50	17.41
		11	2462		17.50	17.48
	802.11g	1	2412	6Mbps	17.50	17.41
		6	2437		17.50	17.45
		11	2462		17.50	17.36
	802.11n20-HT0	1	2412	MCS0	17.50	17.47
		6	2437		17.50	17.29
		11	2462		17.50	17.30
	802.11ax20-HE0	1	2412	MCS0	17.50	17.34
		6	2437		17.50	17.30
		11	2462		17.50	17.34
	802.11be20-EHT0	1	2412	MCS0	17.50	17.31
		6	2437		17.50	17.35
		11	2462		17.50	17.35
	802.11n40-HT0	3	2422	MCS0	17.50	17.37
		6	2437		17.50	17.41
		9	2452		17.50	17.32
	802.11ax40-HE0	3	2422	MCS0	17.50	17.38
		6	2437		17.50	17.33
		9	2452		17.50	17.46
	802.11be40-EHT0	3	2422	MCS0	17.50	17.32
		6	2437		17.50	17.33
		9	2452		17.50	17.35

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	15.00	14.91
		40	5200		15.00	14.81
		44	5220		15.00	14.94
		48	5240		15.00	14.83
	802.11n20-HT0	36	5180	MCS0	15.00	14.88
		40	5200		15.00	14.94
		44	5220		15.00	14.79
		48	5240		15.00	14.88
	802.11ax20-HE0	36	5180	MCS0	15.00	14.87
		40	5200		15.00	14.81
		44	5220		15.00	14.91
		48	5240		15.00	14.80
	802.11be20-EHT0	36	5180	MCS0	15.00	14.93
		40	5200		15.00	14.86
		44	5220		15.00	14.78
		48	5240		15.00	14.92
	802.11n40-HT0	38	5190	MCS0	15.00	14.84
		46	5230		15.00	14.89
	802.11ax40-HE0	38	5190	MCS0	15.00	14.92
		46	5230		15.00	14.82
	802.11be40-EHT0	38	5190	MCS0	15.00	14.91
		46	5230		15.00	14.80
	802.11ac80-VHT0	42	5210	MCS0	15.00	14.96
	802.11ax80-HE0	42	5210	MCS0	15.00	14.90
	802.11be80-EHT0	42	5210	MCS0	15.00	14.89
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.98
	802.11ax160-HE0	50	5250	MCS0	15.00	14.80
	802.11be160-EHT0	50	5250	MCS0	15.00	14.96

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	12.00	11.93
		56	5280		12.00	11.83
		60	5300		12.00	11.92
		64	5320		12.00	11.92
	802.11n20-HT0	52	5260	MCS0	12.00	11.83
		56	5280		12.00	11.89
		60	5300		12.00	11.82
		64	5320		12.00	11.94
	802.11ax20-HE0	52	5260	MCS0	12.00	11.93
		56	5280		12.00	11.91
		60	5300		12.00	11.95
		64	5320		12.00	11.89
	802.11be20-EHT0	52	5260	MCS0	12.00	11.80
		56	5280		12.00	11.91
		60	5300		12.00	11.84
		64	5320		12.00	11.88
	802.11n40-HT0	54	5270	MCS0	12.00	11.79
		62	5310		12.00	11.92
	802.11ax40-HE0	54	5270	MCS0	12.00	11.93
		62	5310		12.00	11.93
	802.11be40-EHT0	54	5270	MCS0	12.00	11.82
		62	5310		12.00	11.87
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.96
	802.11ax80-HE0	58	5290	MCS0	12.00	11.87
	802.11be80-EHT0	58	5290	MCS0	12.00	11.88

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	11.50	11.43
		120	5600		11.50	11.28
		140	5700		11.50	11.30
		144	5720		11.50	11.37
	802.11n20-HT0	100	5500	MCS0	11.50	11.34
		120	5600		11.50	11.26
		140	5700		11.50	11.40
		144	5720		11.50	11.39
	802.11ax20-HE0	100	5500	MCS0	11.50	11.35
		120	5600		11.50	11.45
		140	5700		11.50	11.44
		144	5720		11.50	11.34
	802.11be20-EHT0	100	5500	MCS0	11.50	11.43
		120	5600		11.50	11.36
		140	5700		11.50	11.28
		144	5720		11.50	11.42
	802.11n40-HT0	102	5510	MCS0	11.50	11.37
		118	5590		11.50	11.27
		134	5670		11.50	11.26
		142	5710		11.50	11.32
	802.11ax40-HE0	102	5510	MCS0	11.50	11.39
		118	5590		11.50	11.32
		134	5670		11.50	11.42
		142	5710		11.50	11.35
	802.11be40-EHT0	102	5510	MCS0	11.50	11.33
		118	5590		11.50	11.38
		134	5670		11.50	11.31
		142	5710		11.50	11.35
	802.11ac80-VHT0	106	5530	MCS0	11.50	11.49
		122	5610		11.50	11.47
		138	5690		11.50	11.44
	802.11ax80-HE0	106	5530	MCS0	11.50	11.34
		122	5610		11.50	11.30
		138	5690		11.50	11.32
	802.11be80-EHT0	106	5530	MCS0	11.50	11.41
		122	5610		11.50	11.33
		138	5690		11.50	11.40
	802.11ac160-VHT0	114	5570	MCS0	11.50	11.49
	802.11ax160-HE0	114	5570	MCS0	11.50	11.41
	802.11be160-EHT0	114	5570	MCS0	11.50	11.35

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	10.50	10.45
		157	5785		10.50	10.46
		165	5825		10.50	10.42
	802.11n20-HT0	149	5745	MCS0	10.50	10.32
		157	5785		10.50	10.46
		165	5825		10.50	10.39
	802.11ax20-HE0	149	5745	MCS0	10.50	10.43
		157	5785		10.50	10.34
		165	5825		10.50	10.39
	802.11be20-EHT0	149	5745	MCS0	10.50	10.29
		157	5785		10.50	10.37
		165	5825		10.50	10.32
	802.11n40-HT0	151	5755	MCS0	10.50	10.46
		159	5795		10.50	10.34
	802.11ax40-HE0	151	5755	MCS0	10.50	10.31
		159	5795		10.50	10.40
	802.11be40-EHT0	151	5755	MCS0	10.50	10.44
		159	5795		10.50	10.30
	802.11ac80-VHT0	155	5775	MCS0	10.50	10.49
	802.11ax80-HE0	155	5775	MCS0	10.50	10.47
	802.11be80-EHT0	155	5775	MCS0	10.50	10.30

Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	10.00	9.84
		173	5865		10.00	9.94
		177	5885		10.00	9.78
	802.11n20-HT0	169	5845	MCS0	10.00	9.78
		173	5865		10.00	9.79
		177	5885		10.00	9.85
	802.11ax20-HE0	169	5845	MCS0	10.00	9.93
		173	5865		10.00	9.93
		177	5885		10.00	9.84
	802.11be20-EHT0	169	5845	MCS0	10.00	9.81
		173	5865		10.00	9.95
		177	5885		10.00	9.80
	802.11n40-HT0	167	5835	MCS0	10.00	9.91
		175	5875		10.00	9.92
	802.11ax40-HE0	167	5835	MCS0	10.00	9.90
		175	5875		10.00	9.78
	802.11be40-EHT0	167	5835	MCS0	10.00	9.79
		175	5875		10.00	9.84
	802.11ac80-VHT0	171	5855	MCS0	10.00	9.95
	802.11ax80-HE0	171	5855	MCS0	10.00	9.79
	802.11be80-EHT0	171	5855	MCS0	10.00	9.83
	802.11ac160-VHT0	163	5815	MCS0	10.00	9.98
	802.11ax160-HE0	163	5815	MCS0	10.00	9.82
	802.11be160-EHT0	163	5815	MCS0	10.00	9.89

6.2 WLAN 6GHz

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	13.50	13.32
		45	6175		13.50	13.39
		93	6415		13.50	13.40
	802.11be20-EHT0	1	5955	MCS0	13.50	13.26
		45	6175		13.50	13.22
		93	6415		13.50	13.26
	802.11ax40-HE0	3	5965	MCS0	13.50	13.30
		43	6165		13.50	13.34
		91	6405		13.50	13.30
	802.11be40-EHT0	3	5965	MCS0	13.50	13.41
		43	6165		13.50	13.40
		91	6405		13.50	13.24
	802.11ax80-HE0	7	5985	MCS0	13.50	13.41
		39	6145		13.50	13.24
		87	6385		13.50	13.37
	802.11be80-EHT0	7	5985	MCS0	13.50	13.36
		39	6145		13.50	13.23
		87	6385		13.50	13.24
	802.11ax160-HE0	15	6025	MCS0	13.50	13.42
		47	6185		13.50	13.30
		79	6345		13.50	13.27
	802.11be160-EHT0	15	6025	MCS0	13.50	13.39
		47	6185		13.50	13.32
		79	6345		13.50	13.26
	802.11be320-EHT0	31	6105	MCS0	13.50	13.41
		63	6265		13.50	13.48

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	5.50	5.36
		105	6475		5.50	5.33
		113	6515		5.50	5.45
	802.11be20-EHT0	97	6435	MCS0	5.50	5.38
		105	6475		5.50	5.42
		113	6515		5.50	5.39
	802.11ax40-HE0	99	6445	MCS0	8.50	8.34
		107	6485		8.75	8.62
	802.11be40-EHT0	99	6445	MCS0	8.50	8.36
		107	6485		8.75	8.57
	802.11ax80-HE0	103	6465	MCS0	11.75	11.61
		119	6545		12.00	11.80
	802.11be80-EHT0	103	6465	MCS0	11.75	11.67
		119	6545		12.00	11.84
	802.11ax160-HE0	111	6505	MCS0	13.50	13.43
	802.11be160-EHT0	111	6505	MCS0	13.50	13.38

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	13.50	13.27
		149	6695		13.50	13.23
		181	6855		13.50	13.37
	802.11be20-EHT0	117	6535	MCS0	13.50	13.23
		149	6695		13.50	13.29
		181	6855		13.50	13.32
	802.11ax40-HE0	115	6525	MCS0	13.50	13.38
		147	6685		13.50	13.39
		179	6845		13.50	13.24
	802.11be40-EHT0	115	6525	MCS0	13.50	13.35
		147	6685		13.50	13.37
		179	6845		13.50	13.21
	802.11ax80-HE0	135	6625	MCS0	13.50	13.21
		151	6705		13.50	13.23
		167	6785		13.50	13.21
	802.11be80-EHT0	135	6625	MCS0	13.50	13.28
		151	6705		13.50	13.33
		167	6785		13.50	13.28
	802.11ax160-HE0	143	6665	MCS0	13.50	13.23
		175	6825		13.50	13.29
	802.11be160-EHT0	143	6665	MCS0	13.50	13.31
		175	6825		13.50	13.29
	802.11be320-EHT0	127	6585	MCS0	13.50	13.41
		159	6745		13.50	13.45

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	5.50	5.45
		209	6995		5.75	5.62
		233	7115		1.25	1.12
	802.11be20-EHT0	185	6875	MCS0	5.50	5.27
		209	6995		5.75	5.68
		233	7115		1.25	1.18
	802.11ax40-HE0	187	6885	MCS0	8.75	8.67
		227	7085		8.75	8.56
	802.11be40-EHT0	187	6885	MCS0	8.75	8.67
		227	7085		8.75	8.55
	802.11ax80-HE0	183	6865	MCS0	11.75	11.60
		199	6945		11.75	11.64
		215	7025		12.00	11.80
	802.11be80-EHT0	183	6865	MCS0	11.75	11.56
		199	6945		11.75	11.63
		215	7025		12.00	11.94
	802.11ax160-HE0	207	6985	MCS0	13.50	13.41
	802.11be160-EHT0	207	6985	MCS0	13.50	13.41
	802.11be320-EHT0	191	6905	MCS0	13.50	13.44

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	14.00	13.78
		45	6175		14.00	13.82
		93	6415		14.00	13.94
	802.11be20-EHT0	1	5955	MCS0	14.00	13.89
		45	6175		14.00	13.81
		93	6415		14.00	13.92
	802.11ax40-HE0	3	5965	MCS0	14.00	13.84
		43	6165		14.00	13.94
		91	6405		14.00	13.82
	802.11be40-EHT0	3	5965	MCS0	14.00	13.77
		43	6165		14.00	13.80
		91	6405		14.00	13.89
	802.11ax80-HE0	7	5985	MCS0	14.00	13.75
		39	6145		14.00	13.93
		87	6385		14.00	13.75
	802.11be80-EHT0	7	5985	MCS0	14.00	13.92
		39	6145		14.00	13.94
		87	6385		14.00	13.78
	802.11ax160-HE0	15	6025	MCS0	14.00	13.92
		47	6185		14.00	13.76
		79	6345		14.00	13.80
	802.11be160-EHT0	15	6025	MCS0	14.00	13.82
		47	6185		14.00	13.89
		79	6345		14.00	13.85
	802.11be320-EHT0	31	6105	MCS0	14.00	13.99
		63	6265		14.00	13.98

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	5.50	5.43
		105	6475		5.50	5.48
		113	6515		5.50	5.45
	802.11be20-EHT0	97	6435	MCS0	5.50	5.36
		105	6475		5.50	5.32
		113	6515		5.50	5.31
	802.11ax40-HE0	99	6445	MCS0	8.50	8.37
		107	6485		8.50	8.40
	802.11be40-EHT0	99	6445	MCS0	8.50	8.41
		107	6485		8.50	8.36
	802.11ax80-HE0	103	6465	MCS0	11.75	11.63
		119	6545		11.75	11.73
	802.11be80-EHT0	103	6465	MCS0	11.75	11.57
		119	6545		11.75	11.53
	802.11ax160-HE0	111	6505	MCS0	14.00	13.93
	802.11be160-EHT0	111	6505	MCS0	14.00	13.88

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	14.00	13.86
		149	6695		14.00	13.90
		181	6855		14.00	13.88
	802.11be20-EHT0	117	6535	MCS0	14.00	13.78
		149	6695		14.00	13.94
		181	6855		14.00	13.85
	802.11ax40-HE0	115	6525	MCS0	14.00	13.87
		147	6685		14.00	13.83
		179	6845		14.00	13.95
	802.11be40-EHT0	115	6525	MCS0	14.00	13.85
		147	6685		14.00	13.96
		179	6845		14.00	13.84
	802.11ax80-HE0	135	6625	MCS0	14.00	13.82
		151	6705		14.00	13.92
		167	6785		14.00	13.81
	802.11be80-EHT0	135	6625	MCS0	14.00	13.96
		151	6705		14.00	13.83
		167	6785		14.00	13.97
	802.11ax160-HE0	143	6665	MCS0	14.00	13.86
		175	6825		14.00	13.80
	802.11be160-EHT0	143	6665	MCS0	14.00	13.84
		175	6825		14.00	13.91
	802.11be320-EHT0	127	6585	MCS0	14.00	13.99
		159	6745		14.00	13.96

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	5.75	5.67
		209	6995		5.75	5.63
		233	7115		1.00	0.81
	802.11be20-EHT0	185	6875	MCS0	5.75	5.59
		209	6995		5.75	5.70
		233	7115		1.00	0.80
	802.11ax40-HE0	187	6885	MCS0	11.50	11.47
		227	7085		12.00	11.98
	802.11be40-EHT0	187	6885	MCS0	11.50	11.29
		227	7085		12.00	11.84
	802.11ax80-HE0	183	6865	MCS0	11.50	11.33
		199	6945		12.00	11.78
		215	7025		12.00	11.84
	802.11be80-EHT0	183	6865	MCS0	11.50	11.31
		199	6945		12.00	11.98
		215	7025		12.00	11.87
	802.11ax160-HE0	207	6985	MCS0	14.00	13.87
	802.11be160-EHT0	207	6985	MCS0	14.00	13.93
	802.11be320-EHT0	191	6905	MCS0	14.00	13.99

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	10.00	9.90
		45	6175		10.00	9.85
		93	6415		10.00	9.90
	802.11be20-EHT0	1	5955	MCS0	10.00	9.89
		45	6175		10.00	9.77
		93	6415		10.00	9.89
	802.11ax40-HE0	3	5965	MCS0	10.00	9.84
		43	6165		10.00	9.86
		91	6405		10.00	9.80
	802.11be40-EHT0	3	5965	MCS0	10.00	9.84
		43	6165		10.00	9.82
		91	6405		10.00	9.94
	802.11ax80-HE0	7	5985	MCS0	10.00	9.94
		39	6145		10.00	9.81
		87	6385		10.00	9.95
	802.11be80-EHT0	7	5985	MCS0	10.00	9.89
		39	6145		10.00	9.89
		87	6385		10.00	9.82
	802.11ax160-HE0	15	6025	MCS0	10.00	9.87
		47	6185		10.00	9.94
		79	6345		10.00	9.79
	802.11be160-EHT0	15	6025	MCS0	10.00	9.84
		47	6185		10.00	9.87
		79	6345		10.00	9.91
	802.11be320-EHT0	31	6105	MCS0	10.00	9.92
		63	6265		10.00	9.99

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	5.50	5.42
		105	6475		5.50	5.41
		113	6515		5.50	5.41
	802.11be20-EHT0	97	6435	MCS0	5.50	5.36
		105	6475		5.50	5.46
		113	6515		5.50	5.32
	802.11ax40-HE0	99	6445	MCS0	8.50	8.46
		107	6485		8.75	8.66
	802.11be40-EHT0	99	6445	MCS0	8.50	8.29
		107	6485		8.75	8.68
	802.11ax80-HE0	103	6465	MCS0	10.00	9.88
		119	6545		10.00	9.92
	802.11be80-EHT0	103	6465	MCS0	10.00	9.91
		119	6545		10.00	9.92
	802.11ax160-HE0	111	6505	MCS0	10.00	9.93
	802.11be160-EHT0	111	6505	MCS0	10.00	9.89

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	10.00	9.81
		149	6695		10.00	9.79
		181	6855		10.00	9.90
	802.11be20-EHT0	117	6535	MCS0	10.00	9.91
		149	6695		10.00	9.94
		181	6855		10.00	9.87
	802.11ax40-HE0	115	6525	MCS0	10.00	9.89
		147	6685		10.00	9.78
		179	6845		10.00	9.97
	802.11be40-EHT0	115	6525	MCS0	10.00	9.83
		147	6685		10.00	9.85
		179	6845		10.00	9.84
	802.11ax80-HE0	135	6625	MCS0	10.00	9.79
		151	6705		10.00	9.94
		167	6785		10.00	9.84
	802.11be80-EHT0	135	6625	MCS0	10.00	9.93
		151	6705		10.00	9.77
		167	6785		10.00	9.86
	802.11ax160-HE0	143	6665	MCS0	10.00	9.95
		175	6825		10.00	9.80
	802.11be160-EHT0	143	6665	MCS0	10.00	9.82
		175	6825		10.00	9.92
	802.11be320-EHT0	127	6585	MCS0	10.00	9.98
		159	6745		10.00	9.99

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	5.50	5.28
		209	6995		5.75	5.53
		233	7115		1.25	1.18
	802.11be20-EHT0	185	6875	MCS0	5.50	5.39
		209	6995		5.75	5.65
		233	7115		1.25	1.21
	802.11ax40-HE0	187	6885	MCS0	8.75	8.66
		227	7085		8.75	8.65
	802.11be40-EHT0	187	6885	MCS0	8.75	8.61
		227	7085		8.75	8.67
	802.11ax80-HE0	183	6865	MCS0	10.00	9.79
		199	6945		10.00	9.91
		215	7025		10.00	9.92
	802.11be80-EHT0	183	6865	MCS0	10.00	9.94
		199	6945		10.00	9.93
		215	7025		10.00	9.86
	802.11ax160-HE0	207	6985	MCS0	10.00	9.97
	802.11be160-EHT0	207	6985	MCS0	10.00	9.88
	802.11be320-EHT0	191	6905	MCS0	10.00	9.98

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	8.50	8.36
		45	6175		8.50	8.41
		93	6415		8.50	8.33
	802.11be20-EHT0	1	5955	MCS0	8.50	8.40
		45	6175		8.50	8.38
		93	6415		8.50	8.40
	802.11ax40-HE0	3	5965	MCS0	8.50	8.31
		43	6165		8.50	8.40
		91	6405		8.50	8.30
	802.11be40-EHT0	3	5965	MCS0	8.50	8.33
		43	6165		8.50	8.28
		91	6405		8.50	8.35
	802.11ax80-HE0	7	5985	MCS0	8.50	8.28
		39	6145		8.50	8.41
		87	6385		8.50	8.32
	802.11be80-EHT0	7	5985	MCS0	8.50	8.34
		39	6145		8.50	8.31
		87	6385		8.50	8.35
	802.11ax160-HE0	15	6025	MCS0	8.50	8.28
		47	6185		8.50	8.33
		79	6345		8.50	8.44
	802.11be160-EHT0	15	6025	MCS0	8.50	8.46
		47	6185		8.50	8.43
		79	6345		8.50	8.37
	802.11be320-EHT0	31	6105	MCS0	8.50	8.49
		63	6265		8.50	8.48

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	5.50	5.45
		105	6475		5.50	5.40
		113	6515		5.50	5.45
	802.11be20-EHT0	97	6435	MCS0	5.50	5.36
		105	6475		5.50	5.38
		113	6515		5.50	5.30
	802.11ax40-HE0	99	6445	MCS0	8.50	8.40
		107	6485		8.50	8.38
	802.11be40-EHT0	99	6445	MCS0	8.50	8.39
		107	6485		8.50	8.35
	802.11ax80-HE0	103	6465	MCS0	8.50	8.46
		119	6545		8.50	8.44
	802.11be80-EHT0	103	6465	MCS0	8.50	8.37
		119	6545		8.50	8.28
	802.11ax160-HE0	111	6505	MCS0	8.50	8.49
	802.11be160-EHT0	111	6505	MCS0	8.50	8.41

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	8.50	8.34
		149	6695		8.50	8.27
		181	6855		8.50	8.36
	802.11be20-EHT0	117	6535	MCS0	8.50	8.27
		149	6695		8.50	8.29
		181	6855		8.50	8.40
	802.11ax40-HE0	115	6525	MCS0	8.50	8.22
		147	6685		8.50	8.28
		179	6845		8.50	8.30
	802.11be40-EHT0	115	6525	MCS0	8.50	8.24
		147	6685		8.50	8.33
		179	6845		8.50	8.37
	802.11ax80-HE0	135	6625	MCS0	8.50	8.28
		151	6705		8.50	8.36
		167	6785		8.50	8.37
	802.11be80-EHT0	135	6625	MCS0	8.50	8.21
		151	6705		8.50	8.21
		167	6785		8.50	8.34
	802.11ax160-HE0	143	6665	MCS0	8.50	8.30
		175	6825		8.50	8.35
	802.11be160-EHT0	143	6665	MCS0	8.50	8.39
		175	6825		8.50	8.28
	802.11be320-EHT0	127	6585	MCS0	8.50	8.48
		159	6745		8.50	8.49

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	5.75	5.56
		209	6995		5.75	5.53
		233	7115		1.00	0.67
	802.11be20-EHT0	185	6875	MCS0	5.75	5.55
		209	6995		5.75	5.50
		233	7115		1.00	0.73
	802.11ax40-HE0	187	6885	MCS0	8.50	8.28
		227	7085		8.50	8.21
	802.11be40-EHT0	187	6885	MCS0	8.50	8.33
		227	7085		8.50	8.29
	802.11ax80-HE0	183	6865	MCS0	8.50	8.26
		199	6945		8.50	8.21
		215	7025		8.50	8.26
	802.11be80-EHT0	183	6865	MCS0	8.50	8.29
		199	6945		8.50	8.32
		215	7025		8.50	8.16
	802.11ax160-HE0	207	6985	MCS0	8.50	8.18
	802.11be160-EHT0	207	6985	MCS0	8.50	8.33
	802.11be320-EHT0	191	6905	MCS0	8.50	8.43

6.3 Bluetooth

NB

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	15.25	14.78	14.00	13.99	14.25	13.98
	CH 39	2441	14.50	14.42	14.25	14.09	14.50	14.09
	CH 78	2480	14.50	14.48	14.25	14.21	14.50	14.34

TB

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	13.00	12.91	13.00	12.41	13.00	12.42
	CH 39	2441	13.00	12.85	13.00	12.34	13.00	12.29
	CH 78	2480	13.00	12.88	13.00	12.36	13.00	12.31

6.4 BLE

NB

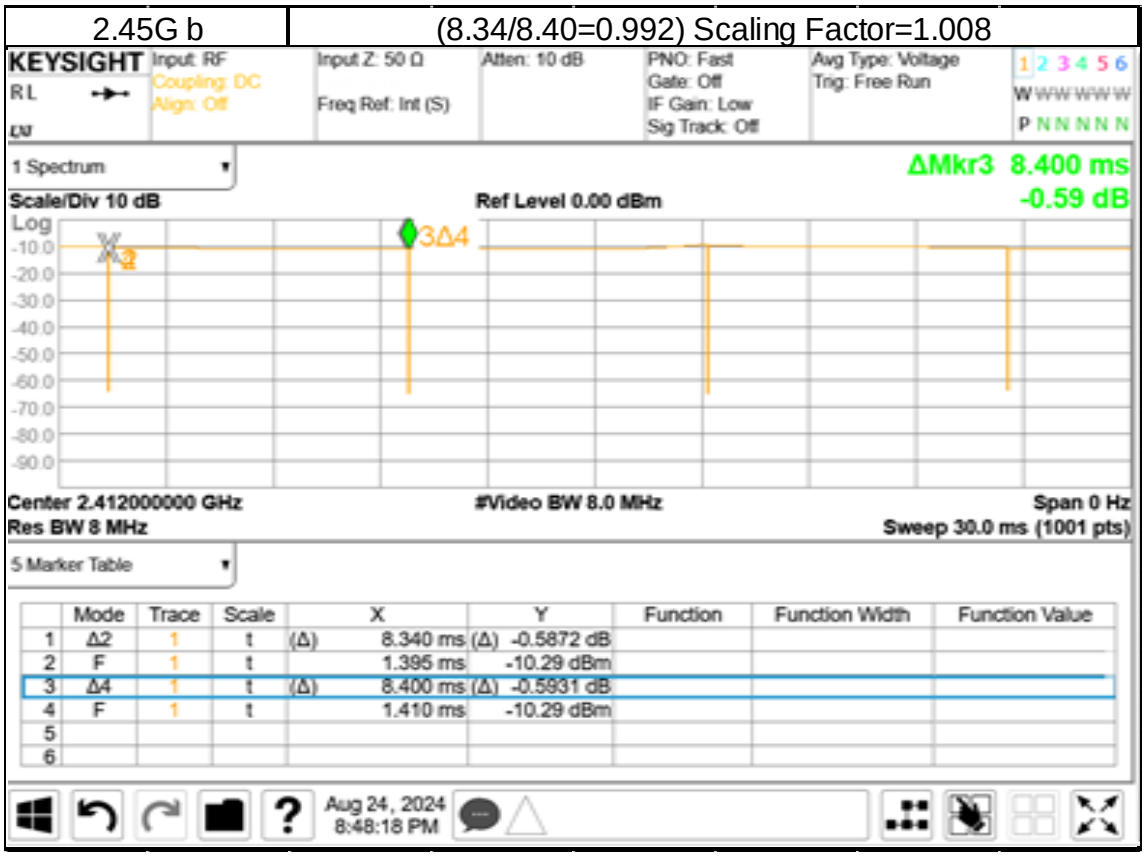
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	14.5	14.12
	CH 19	2440		14.24
	CH 39	2480		14.11

TB

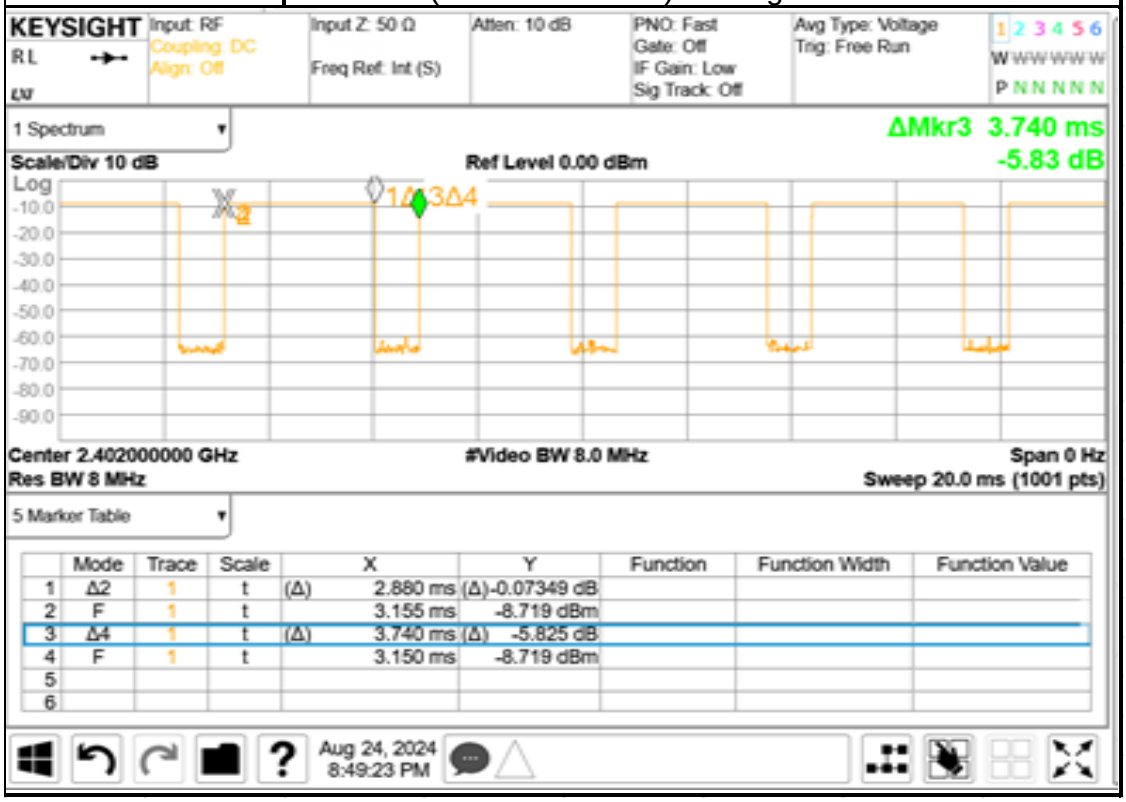
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	13	12.92
	CH 19	2440		12.99
	CH 39	2480		12.88

7 DUTY CYCLE

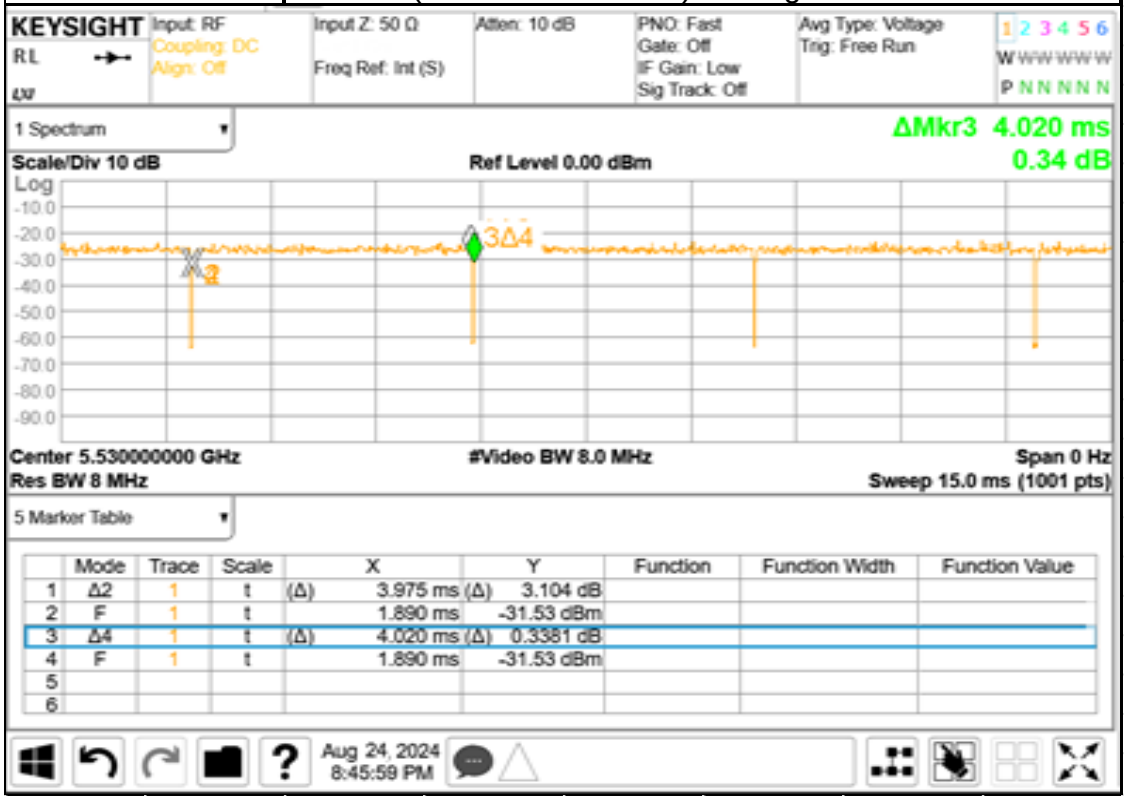
2.45G b	(8.34/8.40=0.992) Scaling Factor=1.008



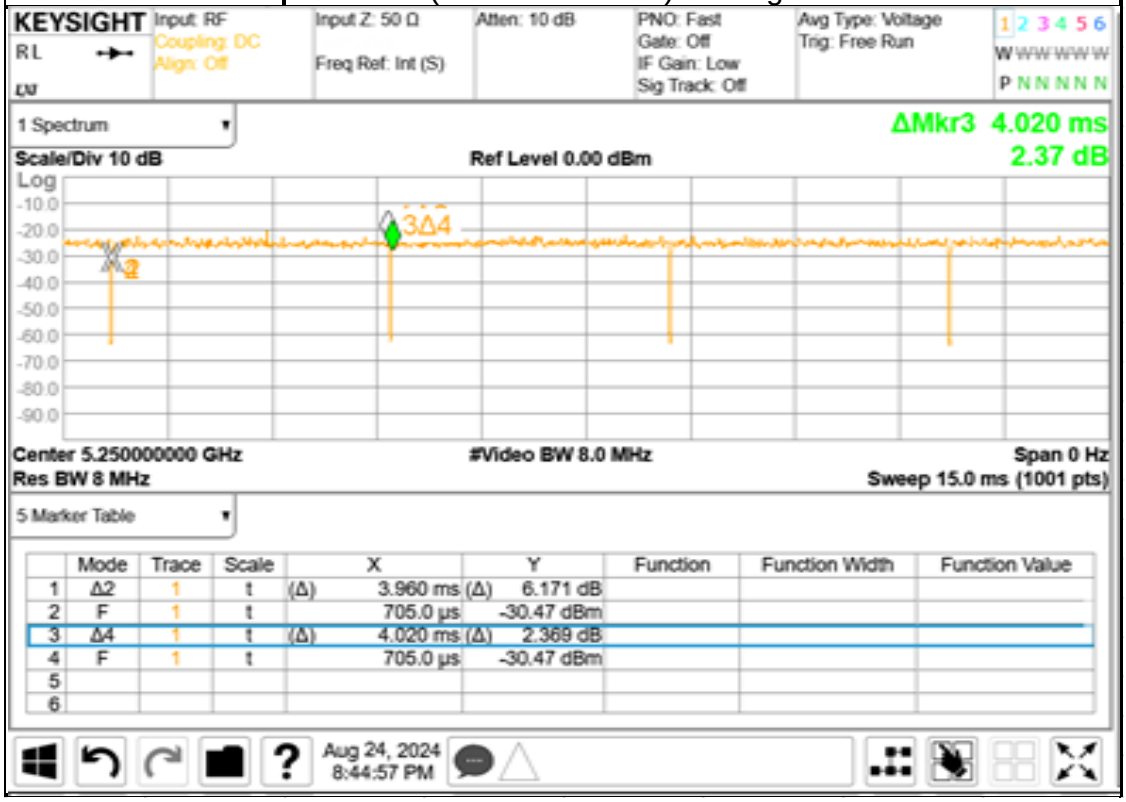
BT	(2.88/3.74=0.770) Scaling Factor=1.298



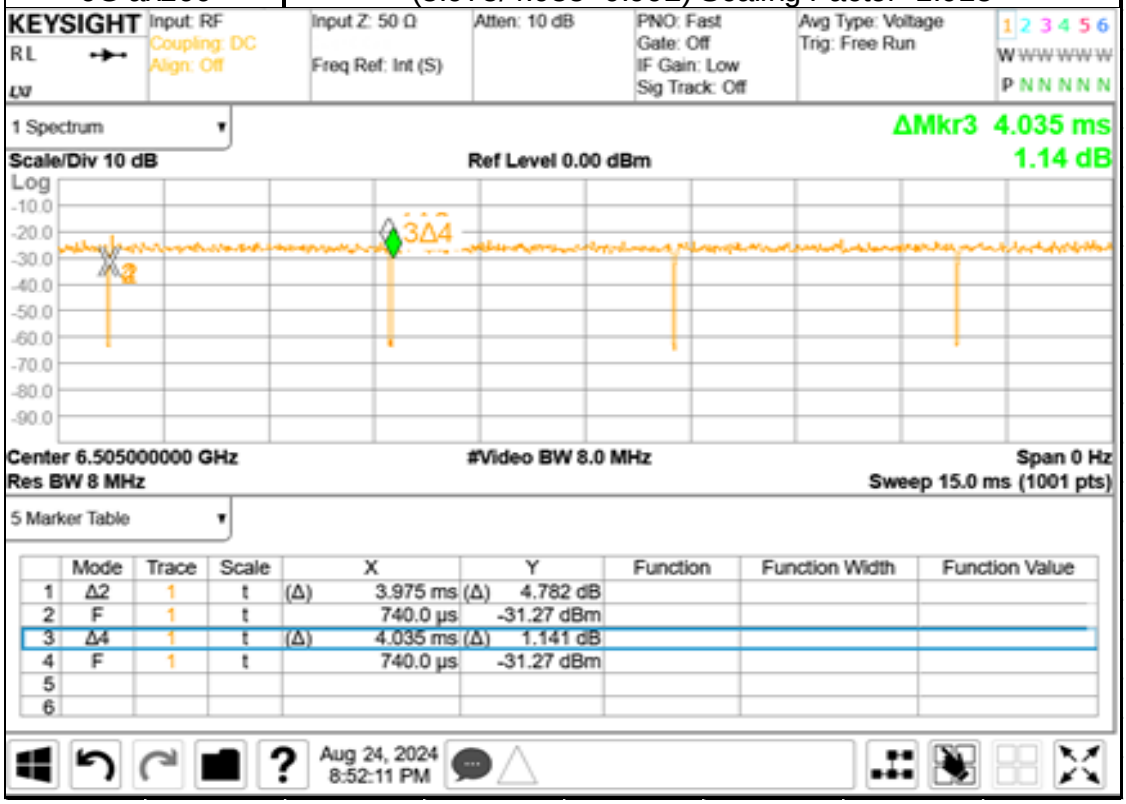
5G ac80M	(3.975/4.020=0.988) Scaling Factor=1.012



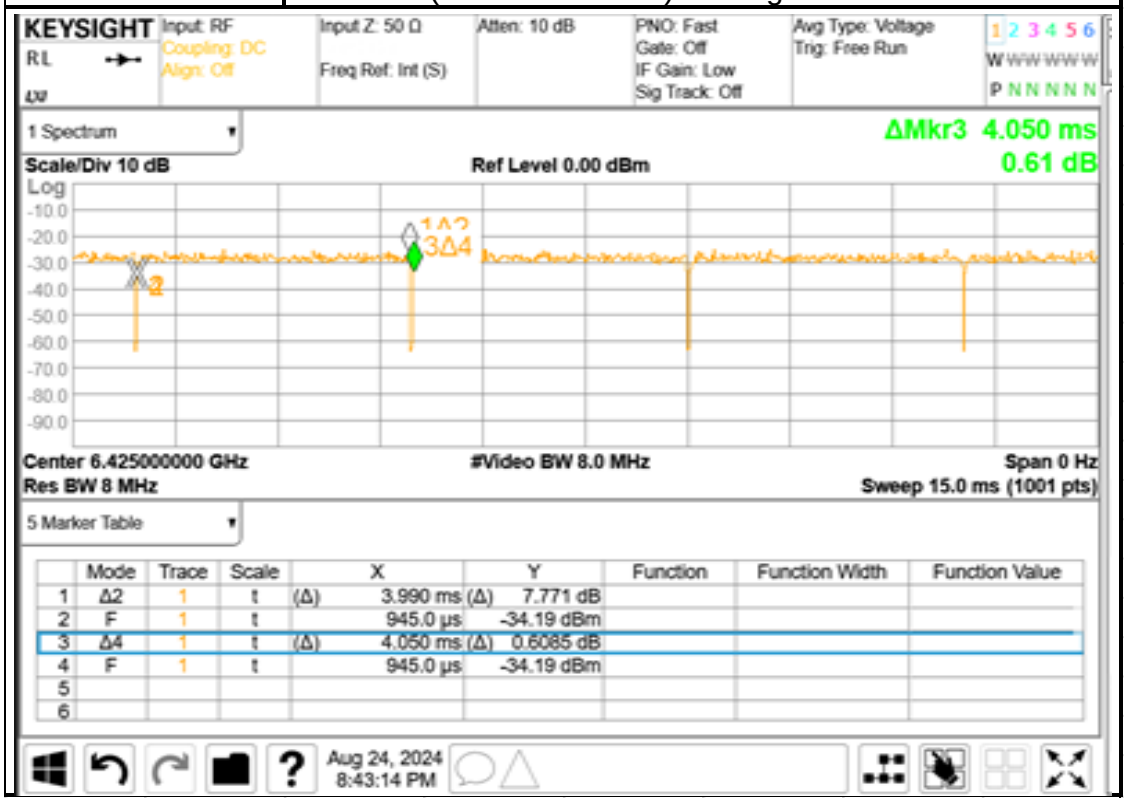
5G ac160M	(3.96/4.02=0.992) Scaling Factor=1.015



6G ax160	(3.975/4.035=0.992) Scaling Factor=1.015



6G be320M	(3.99/4.05=0.992) Scaling Factor=1.015



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

WLAN_NB

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Bottom Surface	0	1	2412	21.25	21.19	1.01	101.39%	0.441	0.451	-
WLAN 802.11b	Main	Bottom Surface	0	6	2437	22.75	22.74	1.01	100.23%	0.451	0.456	001
WLAN 802.11b	Main	Bottom Surface	0	11	2462	22.75	22.72	1.01	100.69%	0.433	0.439	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Main	Bottom Surface	0	42	5210	19.00	18.99	1.01	100.23%	0.194	0.197	002
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Main	Bottom Surface	0	58	5290	19.00	18.99	1.01	100.23%	0.250	0.254	003
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	106	5530	19.00	18.93	1.01	101.62%	0.208	0.214	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	122	5610	19.00	18.92	1.01	101.86%	0.215	0.222	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	138	5690	19.00	18.95	1.01	101.16%	0.233	0.239	004
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Main	Bottom Surface	0	155	5775	19.00	18.92	1.01	101.86%	0.196	0.202	005
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.9G	Main	Bottom Surface	0	163	5815	19.00	18.99	1.02	100.23%	0.192	0.195	006
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Aux	Bottom Surface	0	1	2412	22.00	21.99	1.01	100.23%	0.276	0.279	-
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	22.75	22.74	1.01	100.23%	0.316	0.319	007
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	22.00	21.98	1.01	100.46%	0.263	0.266	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Aux	Bottom Surface	0	00	2402	15.25	14.78	1.30	111.43%	0.061	0.088	008
Bluetooth(GFSK)	Aux	Bottom Surface	0	39	2441	15.25	14.42	1.30	121.06%	0.055	0.086	-
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	15.25	14.48	1.30	119.40%	0.049	0.076	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Aux	Bottom Surface	0	50	5250	18.00	17.99	1.02	100.23%	0.495	0.504	009
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Aux	Bottom Surface	0	58	5290	18.00	17.99	1.01	100.23%	0.600	0.609	010
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	106	5530	18.00	17.98	1.01	100.46%	0.755	0.768	-
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	122	5610	18.00	17.92	1.01	101.86%	0.746	0.769	-
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	138	5690	18.00	17.99	1.01	100.23%	0.767	0.778	011
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Aux	Bottom Surface	0	155	5775	18.00	17.96	1.01	100.93%	0.782	0.799	012
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.9G	Aux	Bottom Surface	0	163	5815	18.00	17.99	1.02	100.23%	0.723	0.736	013

WLAN_TB

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Back Surface	0	1	2412	16.50	16.49	1.01	100.23%	0.865	0.874	014
WLAN 802.11b	Main	Back Surface	0	6	2437	16.50	16.48	1.01	100.46%	0.822	0.832	-
WLAN 802.11b	Main	Back Surface	0	11	2462	16.50	16.46	1.01	100.93%	0.811	0.825	-
WLAN 802.11b	Main	Top Edge	0	1	2412	16.50	16.49	1.01	100.23%	0.116	0.117	-
WLAN 802.11b	Main	Bottom Edge	0	1	2412	16.50	16.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11b	Main	Right Edge	0	1	2412	16.50	16.49	1.01	100.23%	0.005	0.005	-
WLAN 802.11b	Main	Left Edge	0	1	2412	16.50	16.49	1.01	100.23%	0.233	0.235	-
WLAN 802.11b	Main	Back Surface	0	1	2412	16.50	16.49	1.01	100.23%	0.844	0.853	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Main	Back Surface	0	50	5250	12.00	11.99	1.02	100.23%	1.160	1.180	015
WLAN 802.11ac(160M) 5.2G	Main	Top Edge	0	50	5250	12.00	11.99	1.02	100.23%	0.055	0.056	-
WLAN 802.11ac(160M) 5.2G	Main	Bottom Edge	0	50	5250	12.00	11.99	1.02	100.23%	0.002	0.002	-
WLAN 802.11ac(160M) 5.2G	Main	Right Edge	0	50	5250	12.00	11.99	1.02	100.23%	0.002	0.002	-
WLAN 802.11ac(160M) 5.2G	Main	Left Edge	0	50	5250	12.00	11.99	1.02	100.23%	0.138	0.140	-
WLAN 802.11ac(160M) 5.2G	Main	Back Surface	0	50	5250	12.00	11.99	1.00	100.23%	1.120	1.123	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	12.00	11.96	1.01	100.93%	1.160	1.185	016
WLAN 802.11ac(80M) 5.3G	Main	Top Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.072	0.074	-
WLAN 802.11ac(80M) 5.3G	Main	Bottom Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.001	0.001	-
WLAN 802.11ac(80M) 5.3G	Main	Right Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.002	0.002	-
WLAN 802.11ac(80M) 5.3G	Main	Left Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.125	0.128	-
WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	12.00	11.96	1.00	100.93%	1.130	1.140	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Main	Back Surface	0	106	5530	9.50	9.45	1.01	101.16%	0.921	0.943	-
WLAN 802.11ac(80M) 5.6G	Main	Back Surface	0	122	5610	9.50	9.43	1.01	101.62%	0.884	0.909	-
WLAN 802.11ac(80M) 5.6G	Main	Back Surface	0	138	5690	9.50	9.48	1.01	100.46%	0.967	0.983	017
WLAN 802.11ac(80M) 5.6G	Main	Top Edge	0	138	5690	9.50	9.48	1.01	100.46%	0.066	0.067	-
WLAN 802.11ac(80M) 5.6G	Main	Bottom Edge	0	138	5690	9.50	9.48	1.01	100.46%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Main	Right Edge	0	138	5690	9.50	9.48	1.01	100.46%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Main	Left Edge	0	138	5690	9.50	9.48	1.01	100.46%	0.115	0.117	-
WLAN 802.11ac(80M) 5.6G	Main	Back Surface	0	138	5690	9.50	9.48	1.01	100.46%	0.922	0.937	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Main	Back Surface	0	155	5775	9.50	9.48	1.01	100.46%	1.040	1.057	018
WLAN 802.11ac(80M) 5.8G	Main	Top Edge	0	155	5775	9.50	9.48	1.01	100.46%	0.088	0.089	-
WLAN 802.11ac(80M) 5.8G	Main	Bottom Edge	0	155	5775	9.50	9.48	1.01	100.46%	0.001	0.001	-
WLAN 802.11ac(80M) 5.8G	Main	Right Edge	0	155	5775	9.50	9.48	1.01	100.46%	0.002	0.002	-
WLAN 802.11ac(80M) 5.8G	Main	Left Edge	0	155	5775	9.50	9.48	1.01	100.46%	0.160	0.163	-
WLAN 802.11ac(80M) 5.8G	Main	Back Surface	0	155	5775	9.50	9.48	1.00	100.46%	0.994	0.999	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.9G	Main	Back Surface	0	163	5815	9.50	9.49	1.02	100.23%	0.763	0.776	019
WLAN 802.11ac(160M) 5.9G	Main	Top Edge	0	163	5815	9.50	9.49	1.02	100.23%	0.042	0.043	-
WLAN 802.11ac(160M) 5.9G	Main	Bottom Edge	0	163	5815	9.50	9.49	1.02	100.23%	0.001	0.001	-
WLAN 802.11ac(160M) 5.9G	Main	Right Edge	0	163	5815	9.50	9.49	1.02	100.23%	0.001	0.001	-
WLAN 802.11ac(160M) 5.9G	Main	Left Edge	0	163	5815	9.50	9.49	1.02	100.23%	0.089	0.091	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Aux	Back Surface	0	1	2412	17.50	17.49	1.01	100.23%	0.817	0.825	020
WLAN 802.11b	Aux	Back Surface	0	6	2437	17.50	17.41	1.01	102.09%	0.801	0.824	-
WLAN 802.11b	Aux	Back Surface	0	11	2462	17.50	17.48	1.01	100.46%	0.775	0.785	-
WLAN 802.11b	Aux	Top Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.099	0.100	-
WLAN 802.11b	Aux	Bottom Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11b	Aux	Right Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.212	0.214	-
WLAN 802.11b	Aux	Left Edge	0	1	2412	17.50	17.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11b	Aux	Back Surface	0	1	2412	17.50	17.49	1.01	100.23%	0.799	0.807	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
Bluetooth(GFSK)	Aux	Back Surface	0	00	2402	15.25	14.78	1.30	111.43%	0.257	0.372	021
Bluetooth(GFSK)	Aux	Back Surface	0	39	2441	15.25	14.42	1.30	121.06%	0.222	0.349	-
Bluetooth(GFSK)	Aux	Back Surface	0	78	2480	15.25	14.48	1.30	119.40%	0.234	0.363	-
Bluetooth(GFSK)	Aux	Top Edge	0	00	2402	15.25	14.78	1.30	111.43%	0.017	0.025	-
Bluetooth(GFSK)	Aux	Bottom Edge	0	00	2402	15.25	14.78	1.30	111.43%	0.001	0.001	-
Bluetooth(GFSK)	Aux	Right Edge	0	00	2402	15.25	14.78	1.30	111.43%	0.008	0.012	-
Bluetooth(GFSK)	Aux	Left Edge	0	00	2402	15.25	14.78	1.30	111.43%	0.001	0.001	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Aux	Back Surface	0	50	5250	15.00	14.98	1.02	100.46%	1.170	1.193	022
WLAN 802.11ac(160M) 5.2G	Aux	Top Edge	0	50	5250	15.00	14.98	1.02	100.46%	0.092	0.094	-
WLAN 802.11ac(160M) 5.2G	Aux	Bottom Edge	0	50	5250	15.00	14.98	1.02	100.46%	0.001	0.001	-
WLAN 802.11ac(160M) 5.2G	Aux	Right Edge	0	50	5250	15.00	14.98	1.02	100.46%	0.252	0.257	-
WLAN 802.11ac(160M) 5.2G	Aux	Left Edge	0	50	5250	15.00	14.98	1.02	100.46%	0.001	0.001	-
WLAN 802.11ac(160M) 5.2G	Aux	Back Surface	0	50	5250	15.00	14.98	1.02	100.46%	1.140	1.162	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Aux	Back Surface	0	58	5290	12.00	11.96	1.01	100.93%	1.020	1.042	023
WLAN 802.11ac(80M) 5.3G	Aux	Top Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.088	0.090	-
WLAN 802.11ac(80M) 5.3G	Aux	Bottom Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.001	0.001	-
WLAN 802.11ac(80M) 5.3G	Aux	Right Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.158	0.161	-
WLAN 802.11ac(80M) 5.3G	Aux	Left Edge	0	58	5290	12.00	11.96	1.01	100.93%	0.001	0.001	-
WLAN 802.11ac(80M) 5.3G	Aux	Back Surface	0	58	5290	12.00	11.96	1.01	100.93%	0.995	1.016	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Aux	Back Surface	0	106	5530	11.50	11.49	1.01	100.23%	1.170	1.187	024
WLAN 802.11ac(80M) 5.6G	Aux	Back Surface	0	122	5610	11.50	11.47	1.01	100.69%	1.010	1.029	-
WLAN 802.11ac(80M) 5.6G	Aux	Back Surface	0	138	5690	11.50	11.44	1.01	101.39%	0.990	1.016	-
WLAN 802.11ac(80M) 5.6G	Aux	Top Edge	0	106	5530	11.50	11.49	1.01	100.23%	0.085	0.086	-
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Edge	0	106	5530	11.50	11.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Aux	Right Edge	0	106	5530	11.50	11.49	1.01	100.23%	0.121	0.123	-
WLAN 802.11ac(80M) 5.6G	Aux	Left Edge	0	106	5530	11.50	11.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.6G	Aux	Back Surface	0	106	5530	11.50	11.49	1.01	100.23%	1.020	1.035	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Aux	Back Surface	0	155	5775	10.50	10.49	1.01	100.23%	0.895	0.908	025
WLAN 802.11ac(80M) 5.8G	Aux	Top Edge	0	155	5775	10.50	10.49	1.01	100.23%	0.077	0.078	-
WLAN 802.11ac(80M) 5.8G	Aux	Bottom Edge	0	155	5775	10.50	10.49	1.01	100.23%	0.001	0.001	-
WLAN 802.11ac(80M) 5.8G	Aux	Right Edge	0	155	5775	10.50	10.49	1.01	100.23%	0.098	0.099	-
WLAN 802.11ac(80M) 5.8G	Aux	Left Edge	0	155	5775	10.50	10.49	1.01	100.23%	0.002	0.002	-
WLAN 802.11ac(80M) 5.8G	Aux	Back Surface	0	155	5775	10.50	10.49	1.01	100.23%	0.822	0.834	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(160M) 5.9G	Aux	Back Surface	0	163	5815	10.00	9.98	1.02	100.46%	0.812	0.828	026
WLAN 802.11ac(160M) 5.9G	Aux	Top Edge	0	163	5815	10.00	9.98	1.02	100.46%	0.071	0.072	-
WLAN 802.11ac(160M) 5.9G	Aux	Bottom Edge	0	163	5815	10.00	9.98	1.02	100.46%	0.001	0.001	-
WLAN 802.11ac(160M) 5.9G	Aux	Right Edge	0	163	5815	10.00	9.98	1.02	100.46%	0.084	0.086	-
WLAN 802.11ac(160M) 5.9G	Aux	Left Edge	0	163	5815	10.00	9.98	1.02	100.46%	0.002	0.002	-
WLAN 802.11ac(160M) 5.9G	Aux	Back Surface	0	163	5815	10.00	9.98	1.02	100.46%	0.788	0.804	-

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11be(320M)	Main	Bottom Surface	0	31	6105	13.50	13.41	1.02	102.09%	0.031	0.032	0.305	0.316	-
U-NII-5 6.2GHz 802.11be(320M)	Main	Bottom Surface	0	63	6265	13.50	13.48	1.02	100.46%	0.033	0.034	0.314	0.320	027

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Surface	0	111	6505	13.50	13.43	1.02	101.62%	0.026	0.027	0.236	0.243	028

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11be(320M)	Main	Bottom Surface	0	127	6585	13.50	13.41	1.02	102.09%	0.024	0.025	0.231	0.239	-
U-NII-7 6.7GHz 802.11be(320M)	Main	Bottom Surface	0	159	6745	13.50	13.45	1.02	101.16%	0.026	0.027	0.236	0.242	029

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11be(320M)	Main	Bottom Surface	0	191	6905	13.50	13.44	1.02	101.39%	0.021	0.022	0.180	0.185	030

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11be(320M)	Aux	Bottom Surface	0	31	6105	14.00	13.99	1.02	100.23%	0.203	0.207	1.340	1.363	031
U-NII-5 6.2GHz 802.11be(320M)	Aux	Bottom Surface	0	63	6265	14.00	13.98	1.02	100.46%	0.199	0.203	1.250	1.275	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Surface	0	111	6505	14.00	13.93	1.02	101.62%	0.071	0.073	0.429	0.443	032

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11be(320M)	Aux	Bottom Surface	0	127	6585	14.00	13.99	1.02	100.23%	0.063	0.064	0.367	0.373	033
U-NII-7 6.7GHz 802.11be(320M)	Aux	Bottom Surface	0	159	6745	14.00	13.96	1.02	100.93%	0.055	0.056	0.355	0.364	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11be(320M)	Aux	Bottom Surface	0	191	6905	14.00	13.99	1.02	100.23%	0.056	0.057	0.471	0.479	034

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11be(320M)	Main	Back Surface	0	31	6105	10.00	9.92	1.02	101.86%	0.411	0.425	2.870	2.967	-
U-NII-5 6.2GHz 802.11be(320M)	Main	Back Surface	0	63	6265	10.00	9.99	1.02	100.23%	0.507	0.516	3.280	3.337	035
U-NII-5 6.2GHz 802.11be(320M)	Main	Top Edge	0	63	6265	10.00	9.99	1.02	100.23%	0.029	0.030	0.200	0.203	-
U-NII-5 6.2GHz 802.11be(320M)	Main	Bottom Edge	0	63	6265	10.00	9.99	1.02	100.23%	0.001	0.001	0.001	0.001	-
U-NII-5 6.2GHz 802.11be(320M)	Main	Right Edge	0	63	6265	10.00	9.99	1.02	100.23%	0.028	0.028	0.196	0.199	-
U-NII-5 6.2GHz 802.11be(320M)	Main	Left Edge	0	63	6265	10.00	9.99	1.02	100.23%	0.116	0.118	0.812	0.826	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Main	Back Surface	0	111	6505	10.00	9.93	1.02	101.62%	0.517	0.533	3.380	3.486	036
U-NII-6 6.5GHz 802.11ax(160M)	Main	Top Edge	0	111	6505	10.00	9.93	1.02	101.62%	0.033	0.034	0.231	0.238	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Bottom Edge	0	111	6505	10.00	9.93	1.02	101.62%	0.001	0.001	0.001	0.001	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Right Edge	0	111	6505	10.00	9.93	1.02	101.62%	0.022	0.023	0.154	0.159	-
U-NII-6 6.5GHz 802.11ax(160M)	Main	Left Edge	0	111	6505	10.00	9.93	1.02	101.62%	0.112	0.116	0.784	0.809	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11be(320M)	Main	Back Surface	0	127	6585	10.00	9.98	1.02	100.46%	0.423	0.431	2.960	3.018	-
U-NII-7 6.7GHz 802.11be(320M)	Main	Back Surface	0	159	6745	10.00	9.99	1.02	100.23%	0.541	0.550	3.840	3.907	037
U-NII-7 6.7GHz 802.11be(320M)	Main	Top Edge	0	159	6745	10.00	9.99	1.02	100.23%	0.043	0.044	0.243	0.247	-
U-NII-7 6.7GHz 802.11be(320M)	Main	Bottom Edge	0	159	6745	10.00	9.99	1.02	100.23%	0.001	0.001	0.001	0.001	-
U-NII-7 6.7GHz 802.11be(320M)	Main	Right Edge	0	159	6745	10.00	9.99	1.02	100.23%	0.032	0.033	0.162	0.165	-
U-NII-7 6.7GHz 802.11be(320M)	Main	Left Edge	0	159	6745	10.00	9.99	1.02	100.23%	0.122	0.124	0.811	0.825	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11be(320M)	Main	Back Surface	0	191	6905	10.00	9.98	1.02	100.46%	0.631	0.643	4.090	4.171	038
U-NII-8 7.0GHz 802.11be(320M)	Main	Top Edge	0	191	6905	10.00	9.98	1.02	100.46%	0.067	0.068	0.469	0.478	-
U-NII-8 7.0GHz 802.11be(320M)	Main	Bottom Edge	0	191	6905	10.00	9.98	1.02	100.46%	0.001	0.001	0.001	0.001	-
U-NII-8 7.0GHz 802.11be(320M)	Main	Right Edge	0	191	6905	10.00	9.98	1.02	100.46%	0.052	0.053	0.364	0.371	-
U-NII-8 7.0GHz 802.11be(320M)	Main	Left Edge	0	191	6905	10.00	9.98	1.02	100.46%	0.147	0.150	1.020	1.040	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz 802.11be(320M)	Aux	Back Surface	0	31	6105	8.50	8.49	1.02	100.23%	0.394	0.401	2.690	2.737	039
U-NII-5 6.2GHz 802.11be(320M)	Aux	Back Surface	0	63	6265	8.50	8.48	1.02	100.46%	0.341	0.348	2.380	2.427	-
U-NII-5 6.2GHz 802.11be(320M)	Aux	Top Edge	0	31	6105	8.50	8.49	1.02	100.23%	0.038	0.039	0.266	0.271	-
U-NII-5 6.2GHz 802.11be(320M)	Aux	Bottom Edge	0	31	6105	8.50	8.49	1.02	100.23%	0.001	0.001	0.001	0.001	-
U-NII-5 6.2GHz 802.11be(320M)	Aux	Right Edge	0	31	6105	8.50	8.49	1.02	100.23%	0.142	0.144	0.990	1.007	-
U-NII-5 6.2GHz 802.11be(320M)	Aux	Left Edge	0	31	6105	8.50	8.49	1.02	100.23%	0.023	0.023	0.161	0.164	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Back Surface	0	111	6505	8.50	8.49	1.02	100.23%	0.467	0.475	3.030	3.083	040
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Top Edge	0	111	6505	8.50	8.49	1.02	100.23%	0.045	0.046	0.315	0.320	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Bottom Edge	0	111	6505	8.50	8.49	1.02	100.23%	0.001	0.001	0.001	0.001	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Right Edge	0	111	6505	8.50	8.49	1.02	100.23%	0.158	0.161	1.100	1.119	-
U-NII-6 6.5GHz 802.11ax(160M)	Aux	Left Edge	0	111	6505	8.50	8.49	1.02	100.23%	0.039	0.040	0.273	0.278	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz 802.11be(320M)	Aux	Back Surface	0	127	6585	8.50	8.48	1.02	100.46%	0.408	0.416	2.440	2.488	-
U-NII-7 6.7GHz 802.11be(320M)	Aux	Back Surface	0	159	6745	8.50	8.49	1.02	100.23%	0.451	0.459	2.840	2.889	041
U-NII-7 6.7GHz 802.11be(320M)	Aux	Top Edge	0	159	6745	8.50	8.49	1.02	100.23%	0.039	0.040	0.300	0.305	-
U-NII-7 6.7GHz 802.11be(320M)	Aux	Bottom Edge	0	159	6745	8.50	8.49	1.02	100.23%	0.001	0.001	0.001	0.001	-
U-NII-7 6.7GHz 802.11be(320M)	Aux	Right Edge	0	159	6745	8.50	8.49	1.02	100.23%	0.145	0.148	0.987	1.004	-
U-NII-7 6.7GHz 802.11be(320M)	Aux	Left Edge	0	159	6745	8.50	8.49	1.02	100.23%	0.033	0.034	0.225	0.229	-

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m^2 (4cm^2)		ID
										Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11be(320M)	Aux	Back Surface	0	191	6905	8.50	8.43	1.02	101.62%	0.378	0.390	2.420	2.496	042
U-NII-8 7.0GHz 802.11be(320M)	Aux	Top Edge	0	191	6905	8.50	8.43	1.02	101.62%	0.025	0.026	0.175	0.181	-
U-NII-8 7.0GHz 802.11be(320M)	Aux	Bottom Edge	0	191	6905	8.50	8.43	1.02	101.62%	0.001	0.001	0.001	0.001	-
U-NII-8 7.0GHz 802.11be(320M)	Aux	Right Edge	0	191	6905	8.50	8.43	1.02	101.62%	0.134	0.138	0.938	0.968	-
U-NII-8 7.0GHz 802.11be(320M)	Aux	Left Edge	0	191	6905	8.50	8.43	1.02	101.62%	0.026	0.027	0.182	0.188	-

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

8.3 Summary of PD Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	
WLAN 6E 802.11be(320M) U-NII-5	Main	Back Surface	2	31	6105	10.00	9.92	101.86%	1.02	1.55	4.120	6.602	3.340	5.352	-
	Main	Back Surface	2	63	6265	10.00	9.99	100.23%	1.02	1.55	4.530	7.143	3.770	5.945	043
WLAN 6E 802.11ax(160M) U-NII-6	Main	Back Surface	2	111	6505	10.00	9.93	101.62%	1.02	1.55	3.470	5.548	2.660	4.253	044
WLAN 6E 802.11be(320M) U-NII-7	Main	Back Surface	2	127	6585	10.00	9.98	100.46%	1.02	1.55	3.110	4.915	2.240	3.540	-
	Main	Back Surface	2	159	6745	10.00	9.99	100.23%	1.02	1.55	3.270	5.156	2.440	3.848	045
WLAN 6E 802.11be(320M) U-NII-8	Main	Back Surface	2	191	6905	10.00	9.98	100.46%	1.02	1.55	4.920	7.776	3.780	5.974	046

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	
WLAN 6E 802.11be(320M) U-NII-5	Aux	Back Surface	2	31	6105	8.50	8.49	100.23%	1.02	1.55	1.530	2.413	1.260	1.987	047
	Aux	Back Surface	2	63	6265	8.50	8.48	100.46%	1.02	1.55	1.110	1.754	1.140	1.802	-
WLAN 6E 802.11ax(160M) U-NII-6	Aux	Back Surface	2	111	6505	8.50	8.49	100.23%	1.02	1.55	3.050	4.809	2.300	3.627	048
WLAN 6E 802.11be(320M) U-NII-7	Aux	Back Surface	2	127	6585	8.50	8.48	100.46%	1.02	1.55	2.210	3.493	1.680	2.655	-
	Aux	Back Surface	2	159	6745	8.50	8.49	100.23%	1.02	1.55	2.410	3.800	1.940	3.059	049
WLAN 6E 802.11be(320M) U-NII-8	Aux	Back Surface	2	191	6905	8.50	8.43	101.62%	1.02	1.55	2.850	4.557	2.320	3.709	050

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

8.4 Reporting statements of conformity

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

8.5 Conclusion

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

9 SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 Simultaneous Transmission Scenarios:

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

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:

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

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

9.3 SPLSR evaluation and analysis

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

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

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

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

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

Simultaneous Transmission Combination

NB

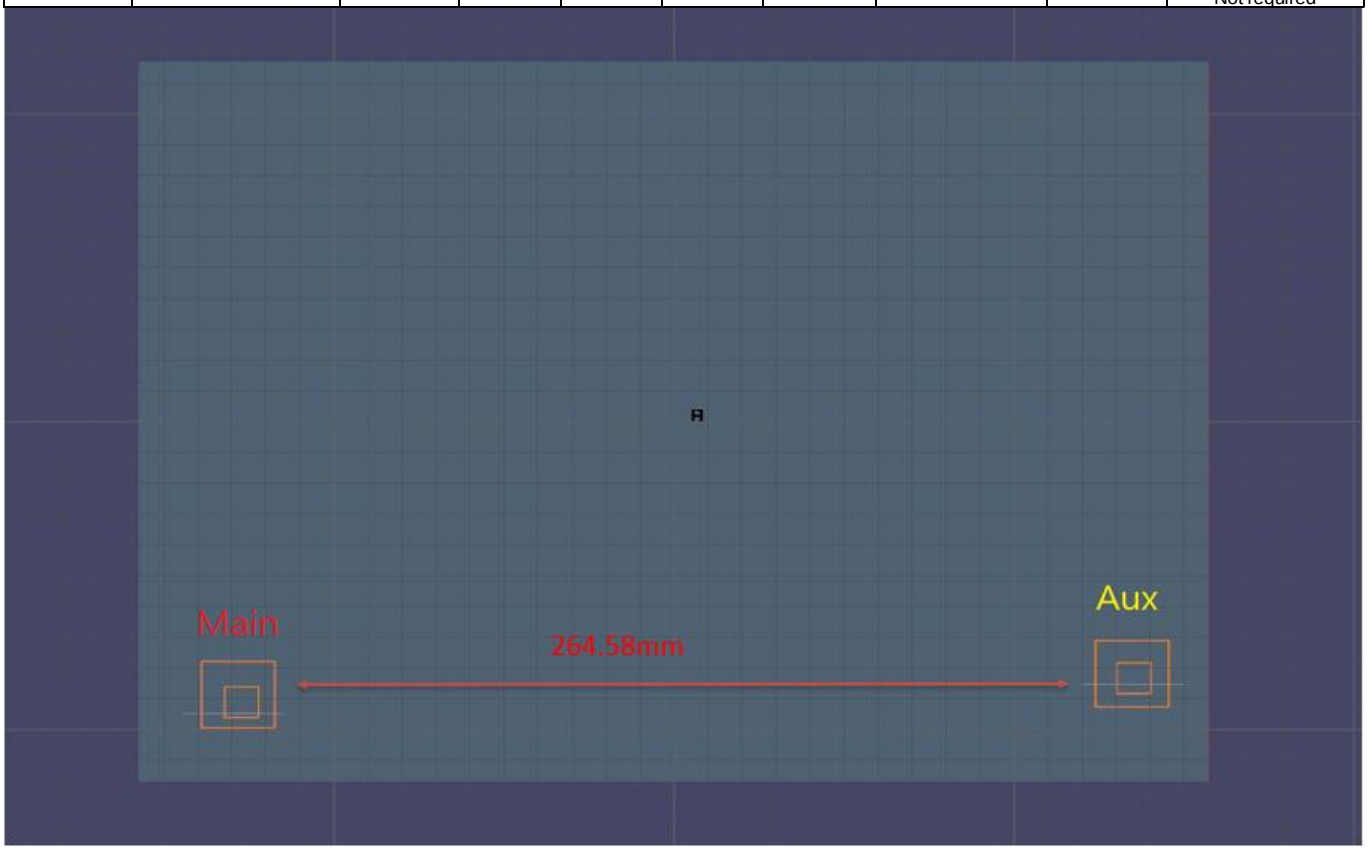
Exposure Position		FCC Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	8+7	8+9	7+8+9
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	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	0.456	0.319	0.254	0.799	0.088	0.034	0.207	**0.544**	**0.775**	**0.342**	**1.053**	**1.141**	**0.122**	**0.241**	**0.329**

TB

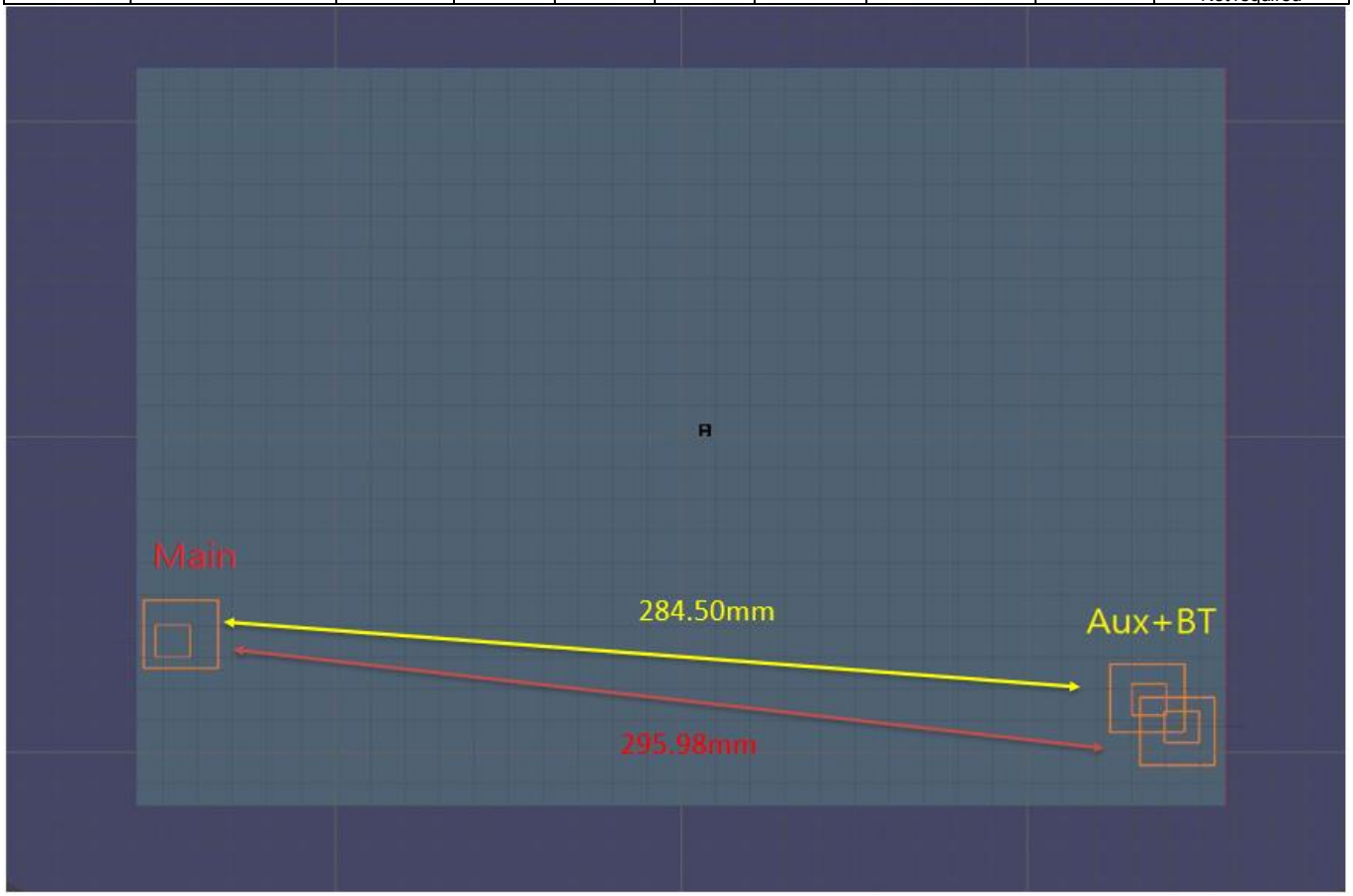
Exposure Position		FCC Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	8+7	8+9	7+8+9
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	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)
Back Surface	0	0.874	0.825	1.185	1.193	0.372	0.643	0.475	**1.246**	1.699	**1.557**	2.378	2.750	**1.015**	**1.118**	**1.490**
Top Edge	0	0.117	0.100	0.089	0.094	0.025	0.068	0.046	**0.142**	**0.217**	**0.114**	**0.183**	**0.208**	**0.093**	**0.114**	**0.139**
Bottom Edge	0	0.001	0.001	0.002	0.001	0.001	0.001	0.001	**0.002**	**0.002**	**0.003**	**0.003**	**0.004**	**0.002**	**0.002**	**0.003**
Right Edge	0	0.005	0.214	0.002	0.257	0.012	0.053	0.161	**0.017**	**0.219**	**0.014**	**0.259**	**0.271**	**0.065**	**0.214**	**0.226**
Left Edge	0	0.235	0.001	0.163	0.002	0.001	0.150	0.040	**0.236**	**0.236**	**0.164**	**0.165**	**0.166**	**0.151**	**0.190**	**0.191**

Scenario : 2+3

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.874	9.48	-12.92	-17.70	-	-	-	-
	WLAN 2.4G Aux	0.825	8.54	13.52	-17.98	1.699	264.58	0.008	SPLSR ≤ 0.04, Not required



Scenario: 4+5+7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	1.185	6.54	-14.86	-18.02	-	-	-	-
	WLAN 5G Aux	1.193	9.18	14.62	-17.97	2.378	295.98	0.012	SPLSR ≤ 0.04, Not required
	BT Aux	0.372	8.54	13.52	-17.98	1.557	284.50	0.007	SPLSR ≤ 0.04, Not required
	WLAN5G + BT Aux	1.565	8.54	13.52	-17.98	2.750	284.50	0.016	SPLSR ≤ 0.04, Not required



9.4 Conclusion

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

10 INSTRUMENTS LIST

Equipment List					
Manufacturer	**Device**	**Type**	**Serial number**	**Date of last calibration**	**Date of next calibration**
SPEAG	Data acquisition Electronics	DAE4	558	Nov/20/2023	Nov/19/2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Sep/21/2023	Sep/20/2024
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9635	Apr/16/2024	Apr/15/2025
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/24/2024	Jan/23/2025
SPEAG	System Validation Dipole	D6.5GHzV2	1029	Jun/11/2024	Jun/10/2025
SPEAG	System Validation Dipole	D7GHzV2	1009	Jun/11/2024	Jun/10/2025
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/17/2024	Jan/16/2025
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/21/2024	Feb/20/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY46151258	Sep/26/2023	Sep/25/2024
Agilent	Dual-directional coupler	778D	MY46151242	Sep/26/2023	Sep/25/2024
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Meter	NRX	105651	Nov/24/2023	Nov/23/2024
R&S	Power Sensor	NRP6A	104247	Nov/24/2023	Nov/23/2024
R&S	Power Sensor	NRP6A	104246	Nov/24/2023	Nov/23/2024
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 8 mmWave V3.0.0.841	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
R&S	Spectrum Analyzer	FSV3044	101487	Apr/09/2024	Apr/08/2025
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	3896	Dec/26/2023	Dec/25/2024
TECPEL	Digital thermometer	DTM-303A	TP130077	Sep/25/2023	Sep/24/2024

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.)	0.87%	N	1	1	0.64	0.43	0.56%	0.37%	M
Liquid Conductivity (mea.)	0.34%	N	1	1	0.6	0.49	0.20%	0.17%	M
Combined standard uncertainty		RSS					11.73%	11.71%	
Expant uncertainty (95% confidence interval), K=2							23.46%	23.43%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
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.)	0.73%	N	1	1	0.64	0.43	0.47%	0.31%	M
Liquid Conductivity (mea.)	1.45%	N	1	1	0.6	0.49	0.87%	0.71%	M
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.92%	22.87%	

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

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

cDASY6 Module mmWave Uncertainty Budget for PD Evaluation Distances to the Antennas ≧λ/ 5 In Compliance with IEC/IEEE 63195

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

12 SAR MEASUREMENT RESULTS

ID: 001
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Main
Ambient temperature: 22.1°C; Liquid temperature: 21.5°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	2437.0, 6	8.05	1.813	38.938

Hardware Setup

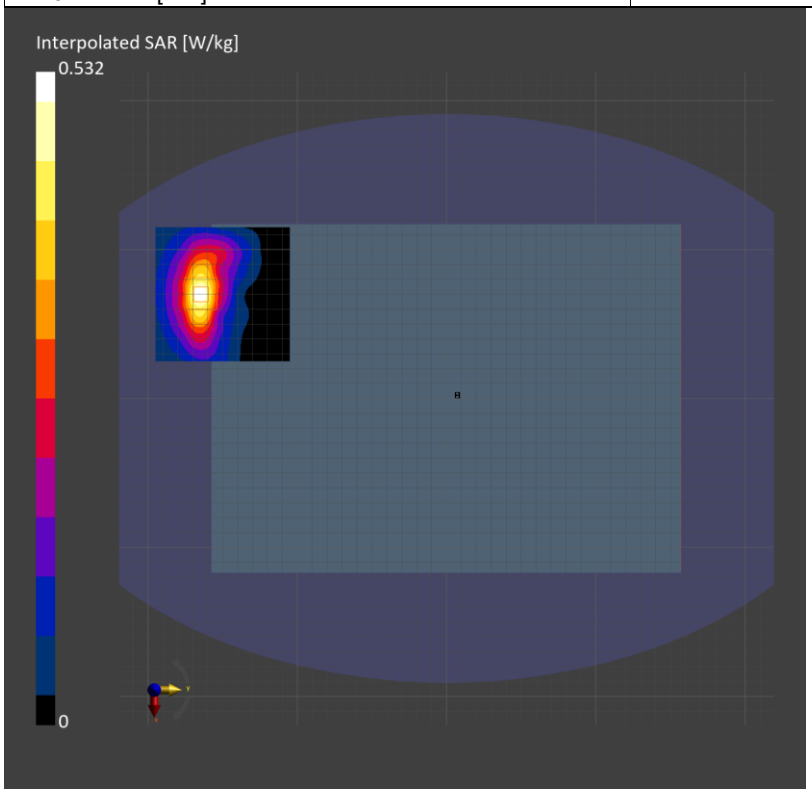
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.413	0.451
psSAR8g [W/kg]	0.230	0.251
psSAR10g [W/kg]	0.211	0.230
Power Drift [dB]	0.03	0.02
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		9.9



ID: 002
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.2G_Body_Front Edge of Keyboard_CH 42_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5210.0, 42	5.95	4.654	35.689

Hardware Setup

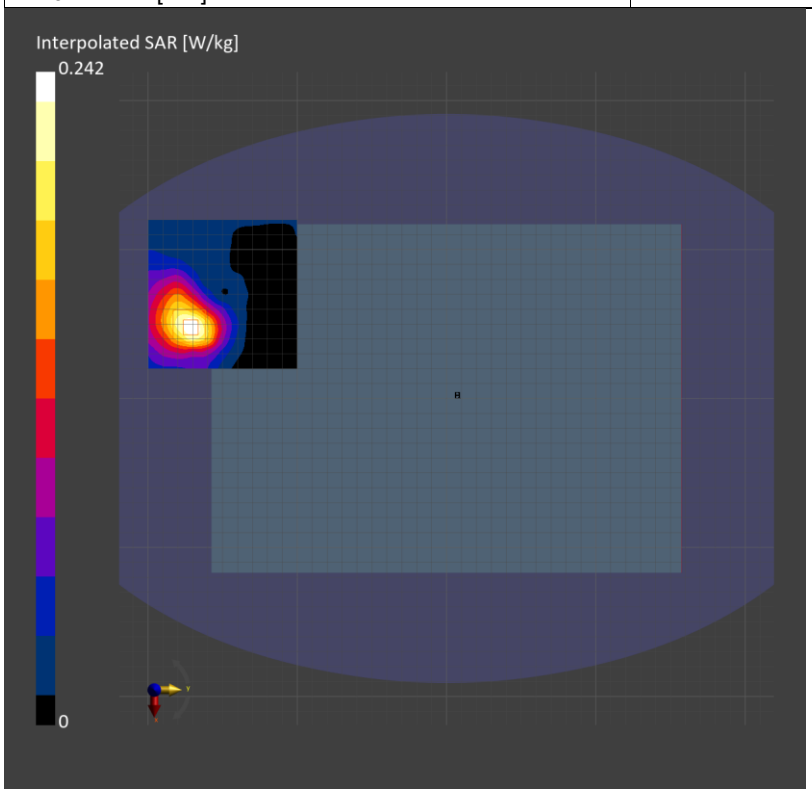
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.181	0.194
psSAR8g [W/kg]	0.085	0.096
psSAR10g [W/kg]	0.077	0.088
Power Drift [dB]	0.03	0.06
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		11.9



ID: 003
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5290.0, 58	5.95	4.736	35.598

Hardware Setup

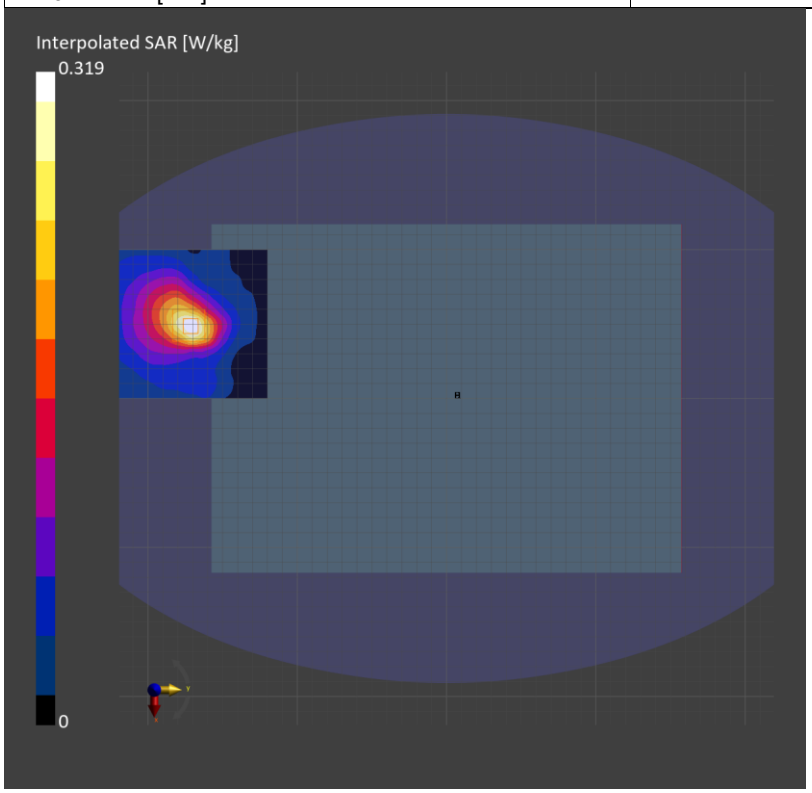
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.236	0.250
psSAR8g [W/kg]	0.108	0.122
psSAR10g [W/kg]	0.098	0.112
Power Drift [dB]	0.04	0.03
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		12.0



ID: 004
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5690.0, 138	5.36	5.146	35.141

Hardware Setup

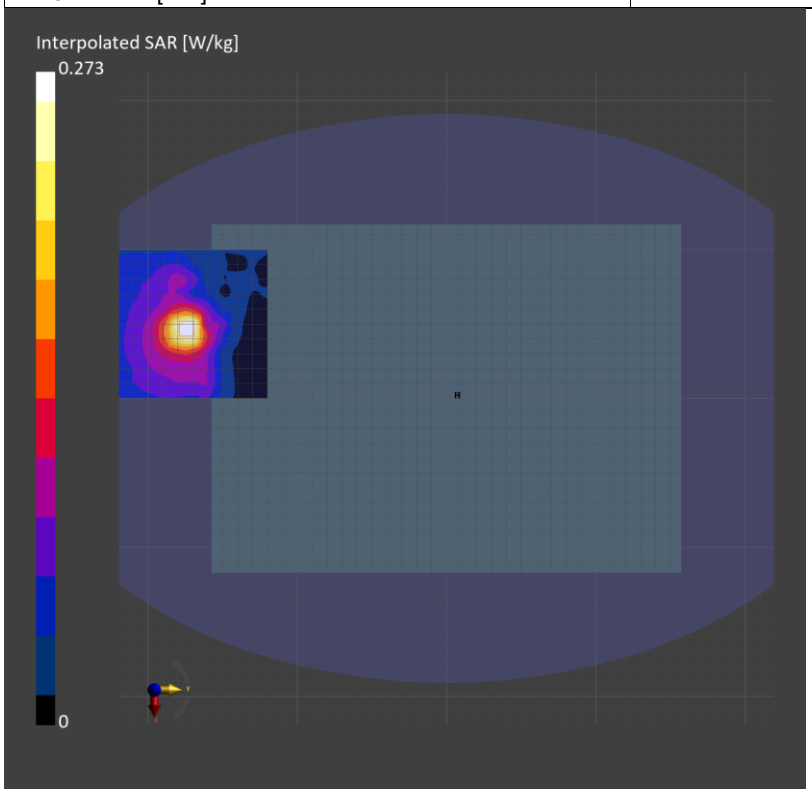
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.206	0.233
psSAR8g [W/kg]	0.092	0.112
psSAR10g [W/kg]	0.083	0.101
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		8.7



ID: 005
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5775.0, 155	5.10	5.233	35.044

Hardware Setup

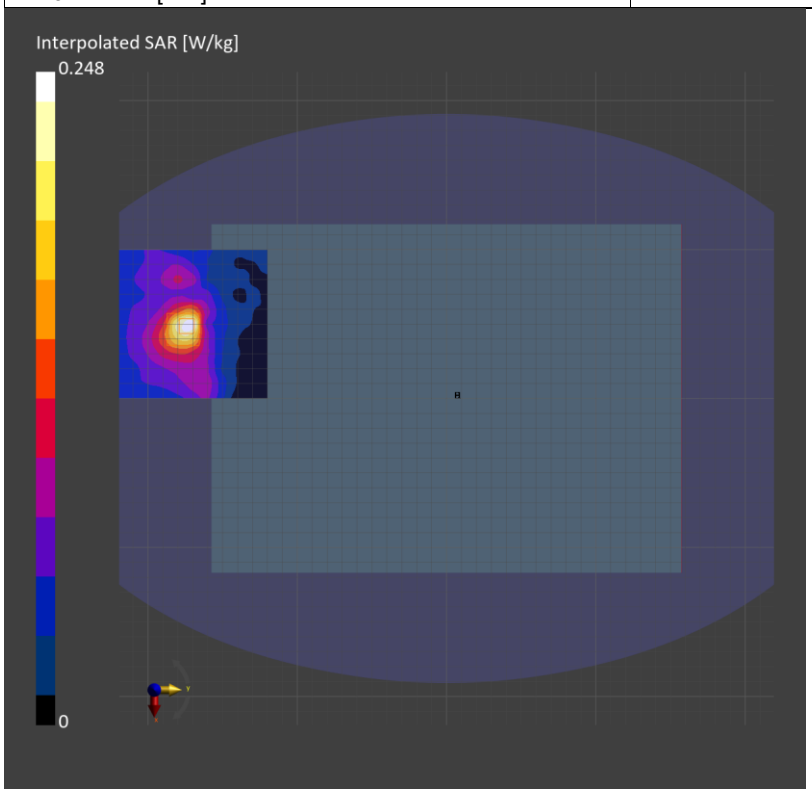
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.183	0.196
psSAR8g [W/kg]	0.080	0.094
psSAR10g [W/kg]	0.072	0.086
Power Drift [dB]	0.04	0.02
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		7.2



ID: 006
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.9G_Body_Bottom Surface_CH 163_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5815.0, 163	5.10	5.274	34.998

Hardware Setup

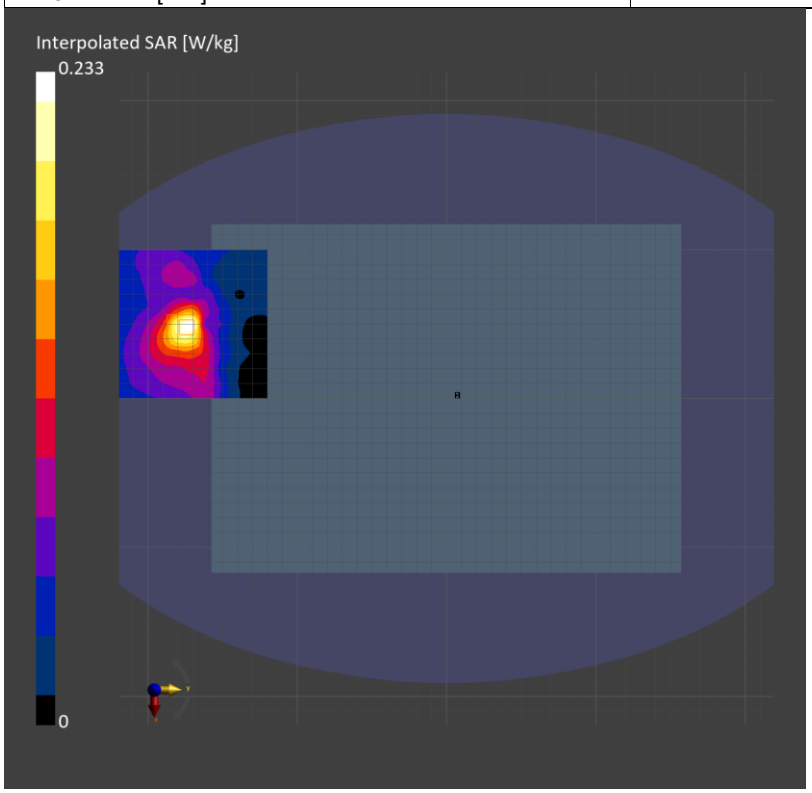
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.174	0.192
psSAR8g [W/kg]	0.077	0.093
psSAR10g [W/kg]	0.069	0.085
Power Drift [dB]	0.04	0.03
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		7.2



ID: 007
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux
Ambient temperature: 22.1°C; Liquid temperature: 21.5°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	2437.0, 6	8.05	1.813	38.938

Hardware Setup

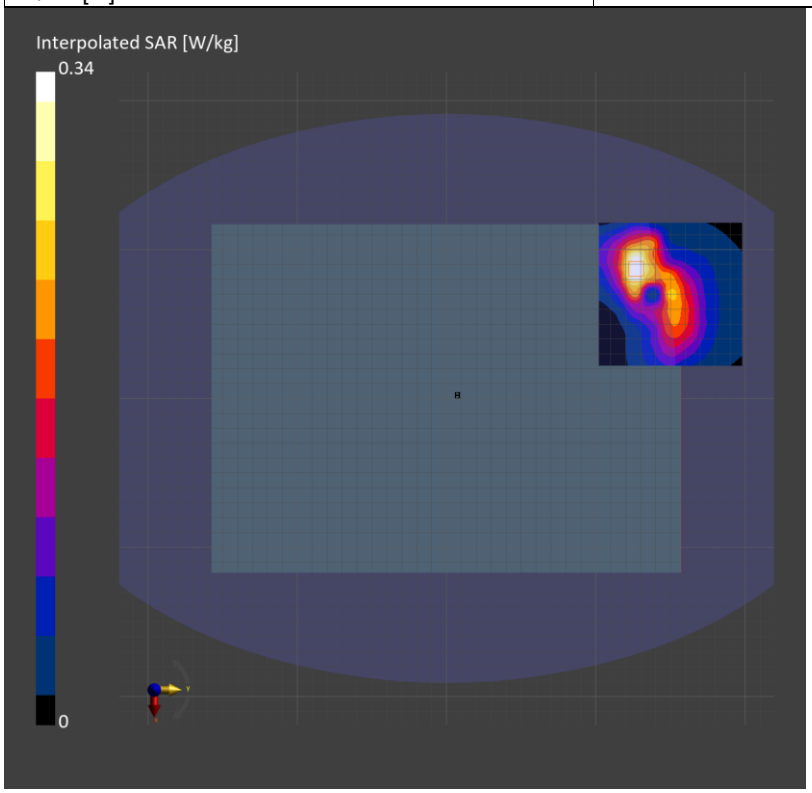
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.272	0.316
psSAR8g [W/kg]	0.151	0.165
psSAR10g [W/kg]	0.139	0.151
Power Drift [dB]	0.02	0.02
M2/M1 [%]		53.3



ID: 008
Report No. :TESA2407000466E5
Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH 0_0mm_Aux
Ambient temperature: 22.1°C; Liquid temperature: 21.5°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	2402.0, 0	8.05	1.783	39.000

Hardware Setup

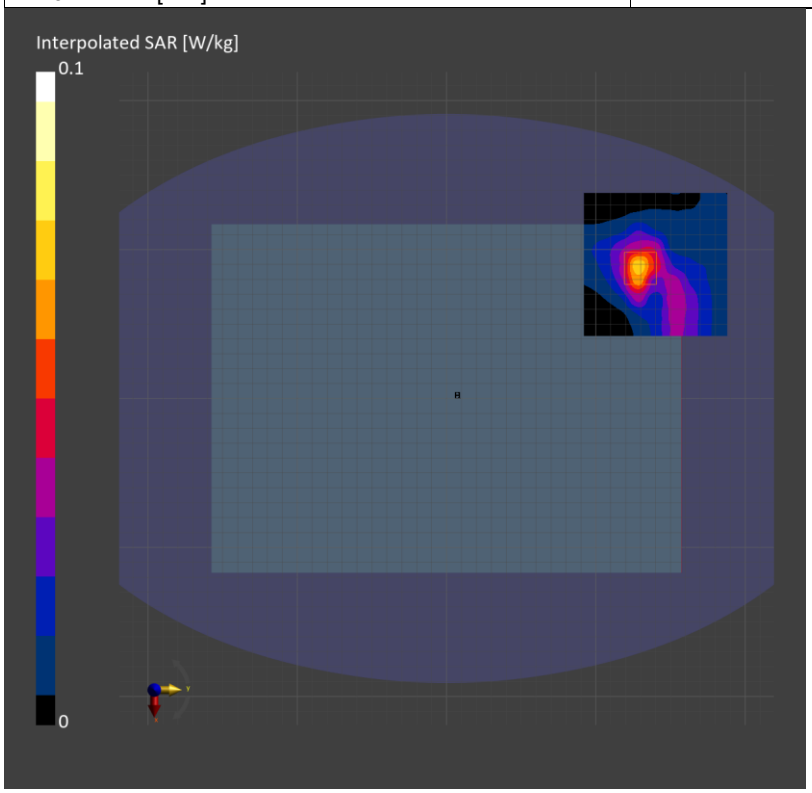
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.057	0.061
psSAR8g [W/kg]	0.031	0.033
psSAR10g [W/kg]	0.029	0.030
Power Drift [dB]	0.04	0.05
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		9.9



ID: 009
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.2G_Body_Front Edge of Keyboard_CH 50_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5250.0, 50	5.95	4.695	35.644

Hardware Setup

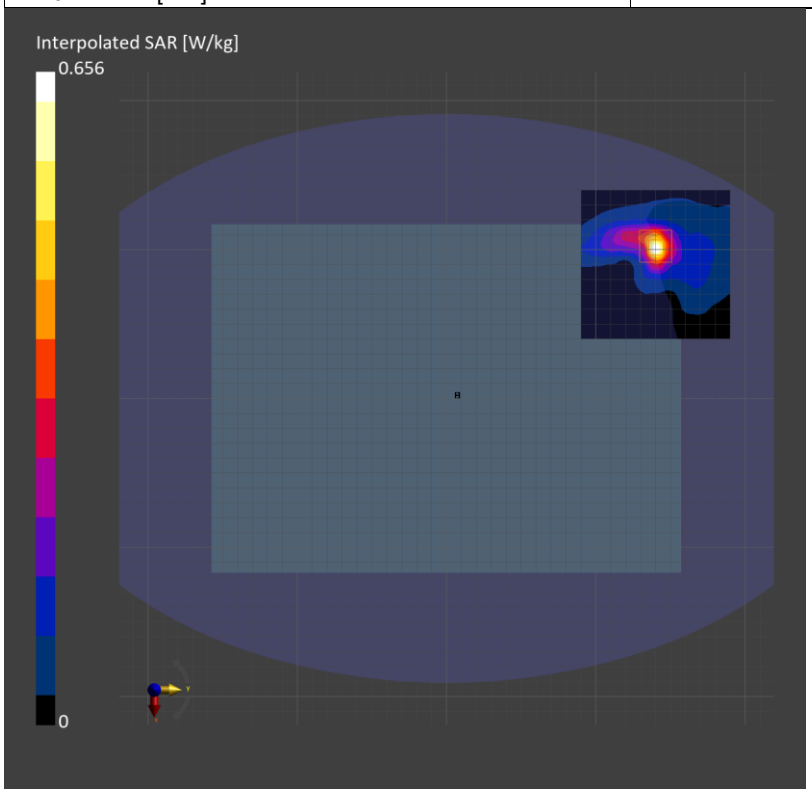
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.430	0.495
psSAR8g [W/kg]	0.166	0.194
psSAR10g [W/kg]	0.147	0.172
Power Drift [dB]	0.02	0.01
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		7.4



ID: 010
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5290.0, 58	5.95	4.736	35.598

Hardware Setup

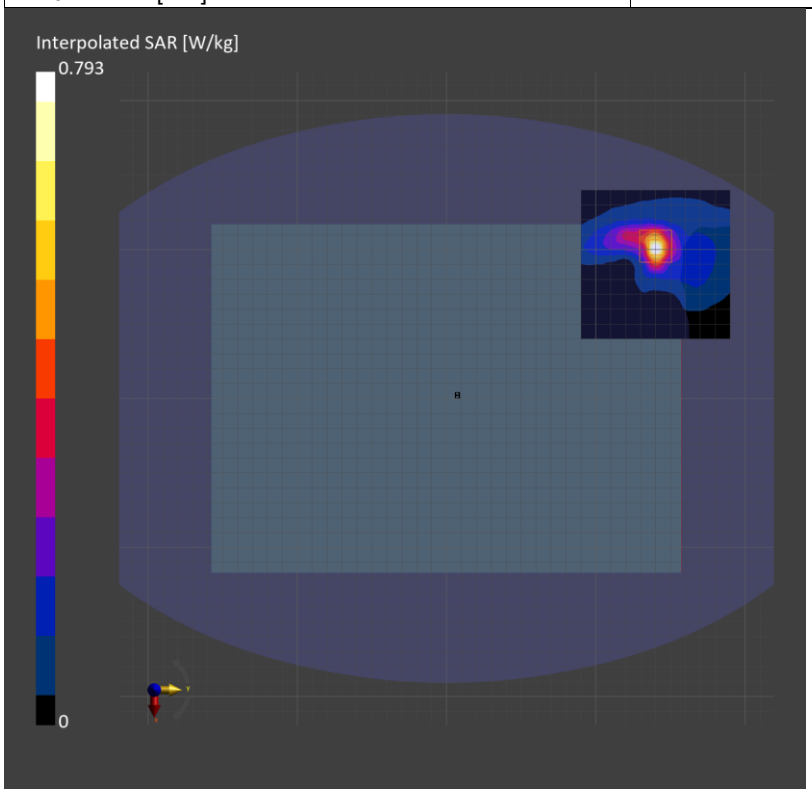
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.522	0.600
psSAR8g [W/kg]	0.201	0.231
psSAR10g [W/kg]	0.177	0.203
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		7.6



ID: 011
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5690.0, 138	5.36	5.146	35.141

Hardware Setup

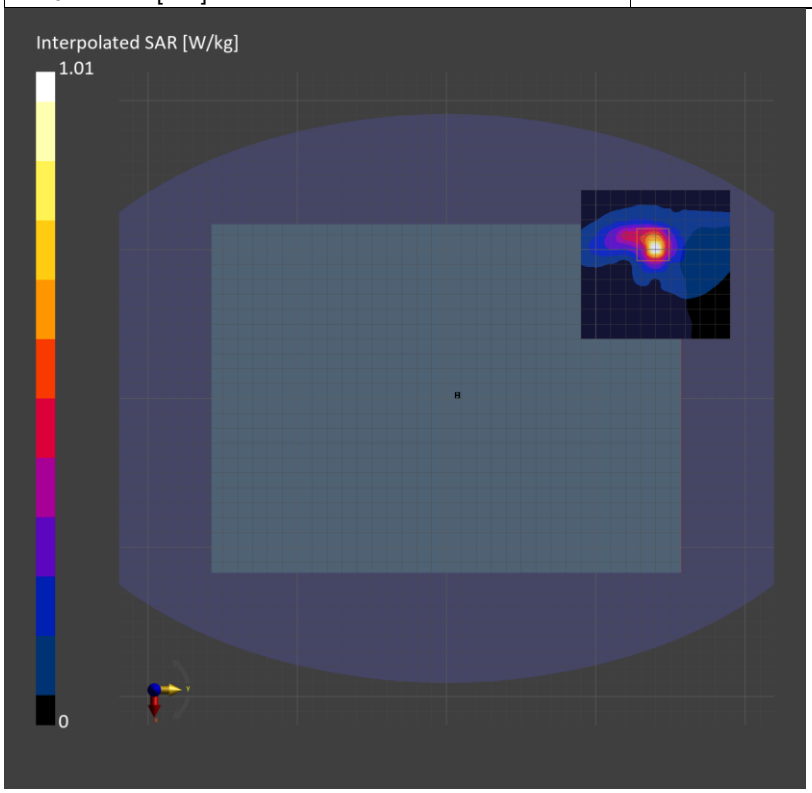
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.650	0.767
psSAR8g [W/kg]	0.238	0.278
psSAR10g [W/kg]	0.210	0.243
Power Drift [dB]	0.01	0.04
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		7.6



ID: 012
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5775.0, 155	5.10	5.233	35.044

Hardware Setup

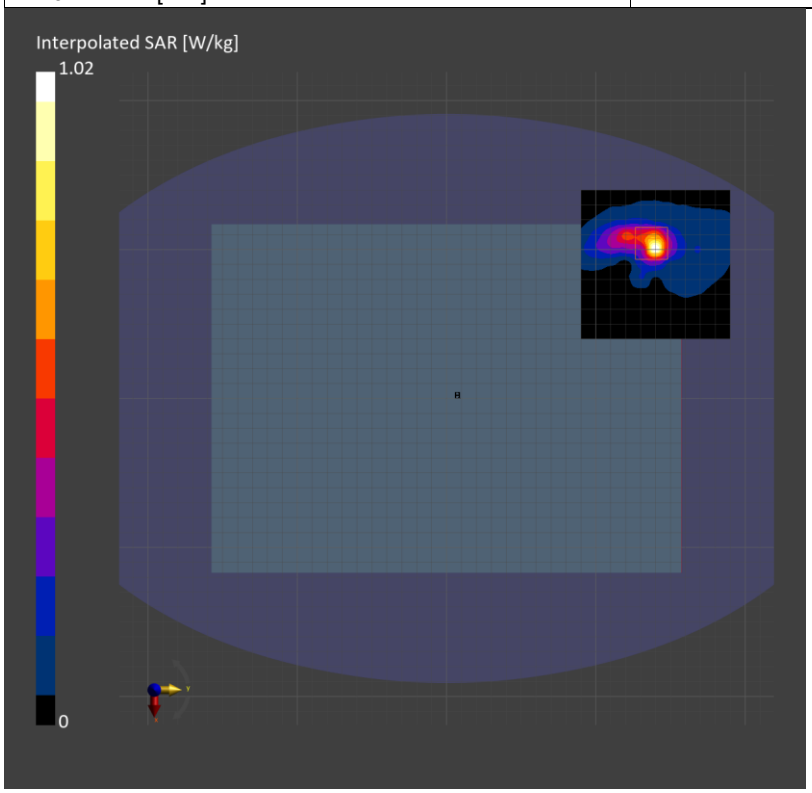
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.652	0.782
psSAR8g [W/kg]	0.238	0.281
psSAR10g [W/kg]	0.210	0.246
Power Drift [dB]	0.05	0.03
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		7.6



ID: 013
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.9G_Body_Bottom Surface_CH 163_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°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	5815.0, 163	5.10	5.274	34.998

Hardware Setup

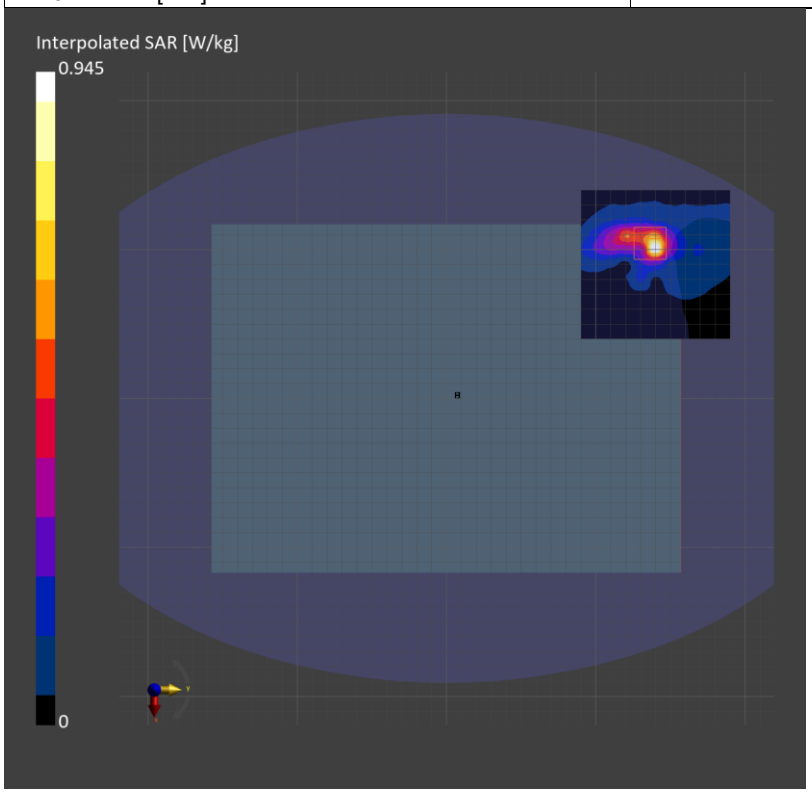
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.612	0.723
psSAR8g [W/kg]	0.227	0.263
psSAR10g [W/kg]	0.201	0.231
Power Drift [dB]	0.04	0.03
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		7.6



ID: 014
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11b_Body_Back Surface_CH 1_0mm_Main
Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	2412.0, 1	8.05	1.791	38.983

Hardware Setup

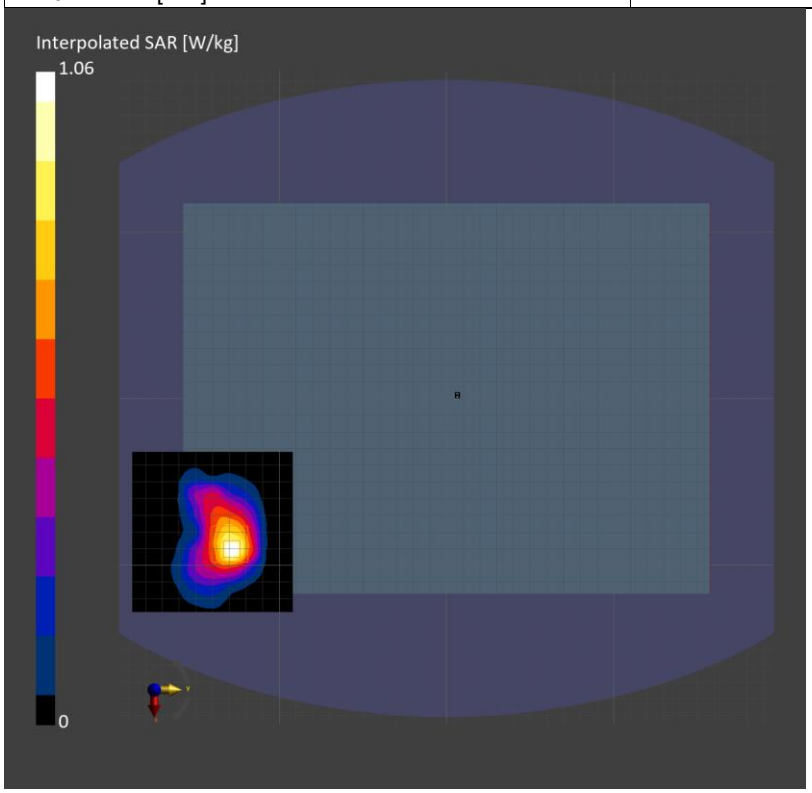
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.808	0.865
psSAR8g [W/kg]	0.441	0.496
psSAR10g [W/kg]	0.404	0.456
Power Drift [dB]	0.02	-0.05
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		9.5



ID: 015
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5250.0, 50	5.95	4.695	35.644

Hardware Setup

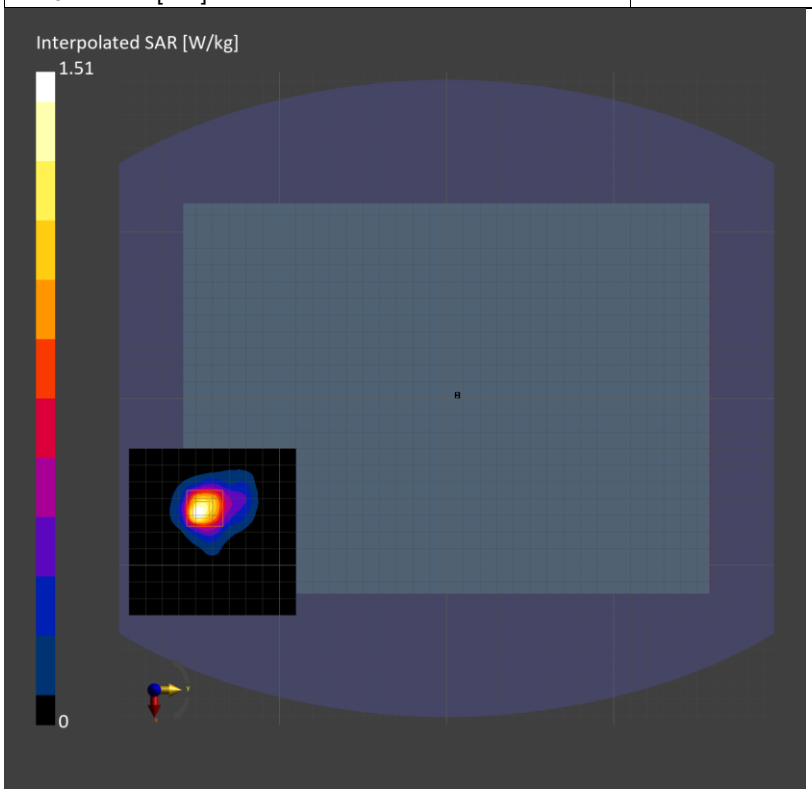
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	24.0 x 22.0 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	2024-08-23	2024-08-23
psSAR1g [W/kg]	1.05	1.16
psSAR8g [W/kg]	0.420	0.464
psSAR10g [W/kg]	0.370	0.409
Power Drift [dB]	0.02	0.03
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		6.8



ID: 016
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5290.0, 58	5.95	4.736	35.598

Hardware Setup

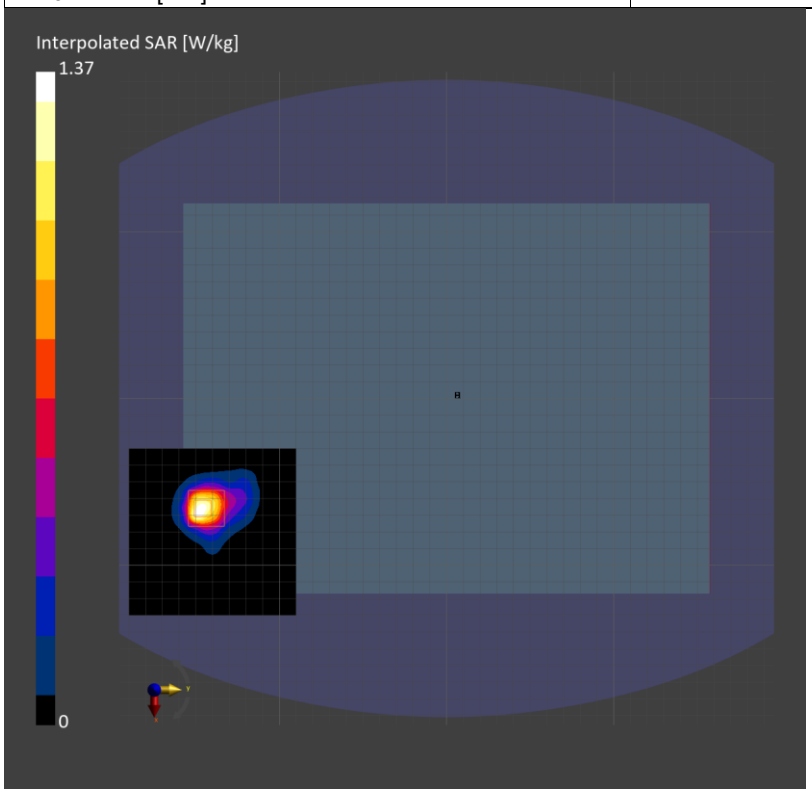
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.987	1.16
psSAR8g [W/kg]	0.397	0.454
psSAR10g [W/kg]	0.350	0.399
Power Drift [dB]	0.04	0.03
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		7.2



ID: 017
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 138_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5690.0, 138	5.36	5.146	35.141

Hardware Setup

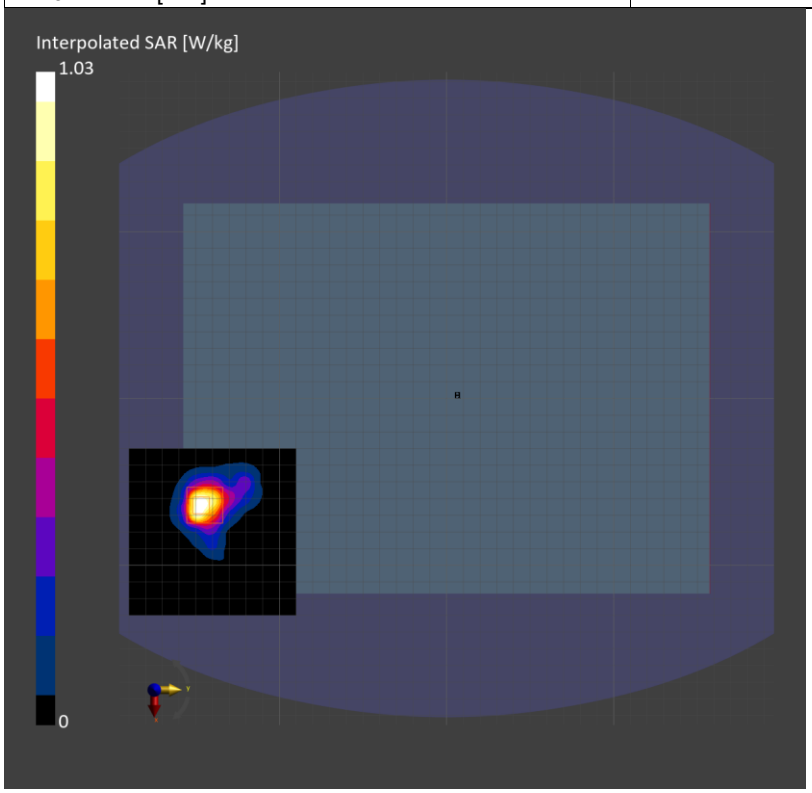
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.770	0.967
psSAR8g [W/kg]	0.307	0.349
psSAR10g [W/kg]	0.270	0.307
Power Drift [dB]	0.03	0.04
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		6.1



ID: 018
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5775.0, 155	5.10	5.233	35.044

Hardware Setup

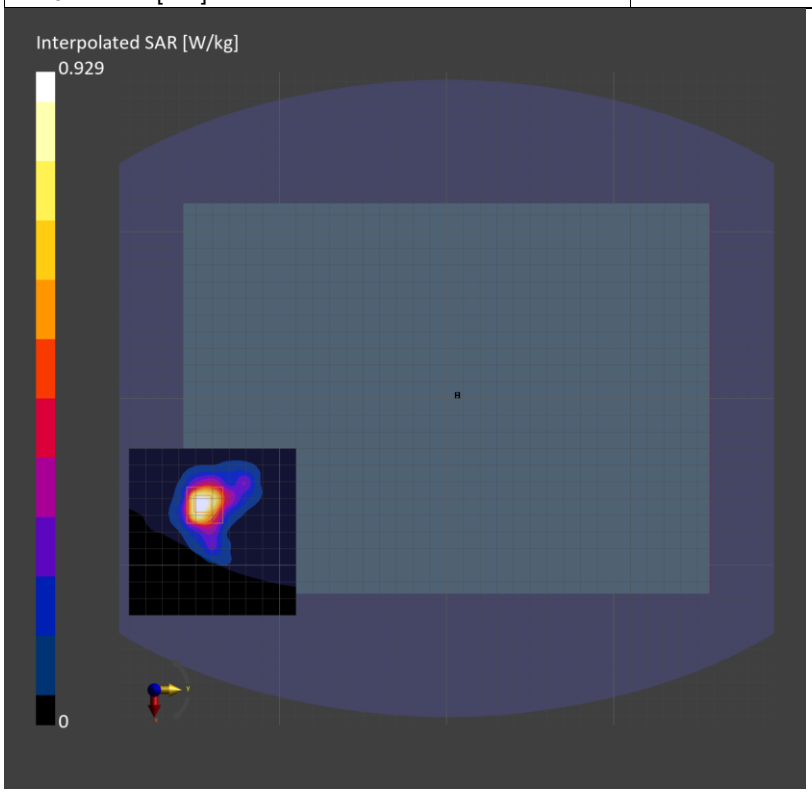
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 90.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.694	1.04
psSAR8g [W/kg]	0.279	0.371
psSAR10g [W/kg]	0.246	0.326
Power Drift [dB]	0.04	0.01
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		6.1



ID: 019
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.9G_Body_Back Surface_CH 163_0mm_Main
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5815.0, 163	5.10	5.274	34.998

Hardware Setup

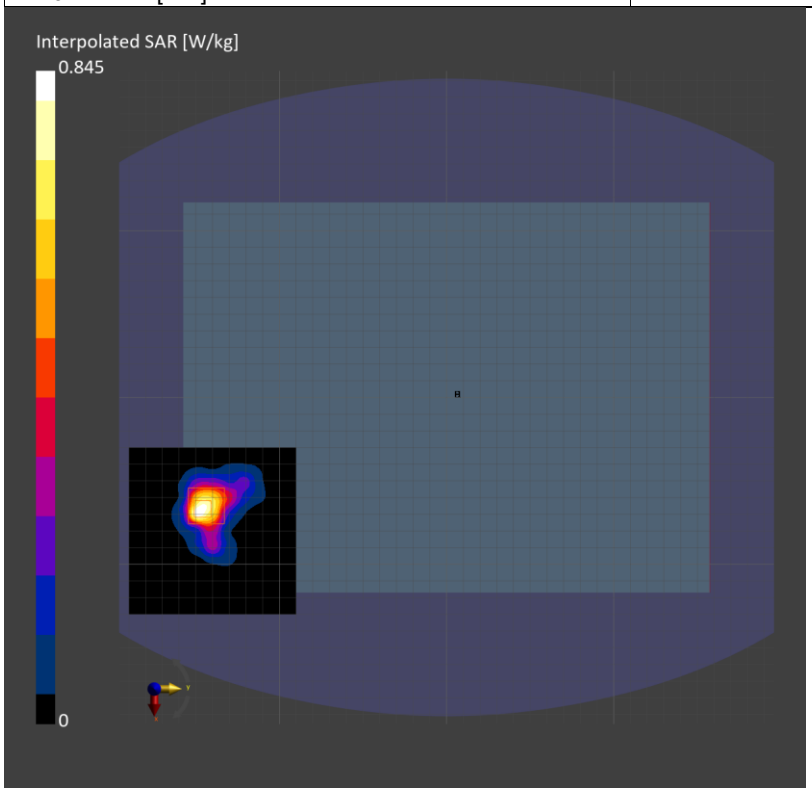
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.615	0.763
psSAR8g [W/kg]	0.246	0.274
psSAR10g [W/kg]	0.218	0.241
Power Drift [dB]	0.04	0.05
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		5.7



ID: 020
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11b_Body_Back Surface_CH 1_0mm_Aux
Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	2412.0, 1	8.05	1.791	38.983

Hardware Setup

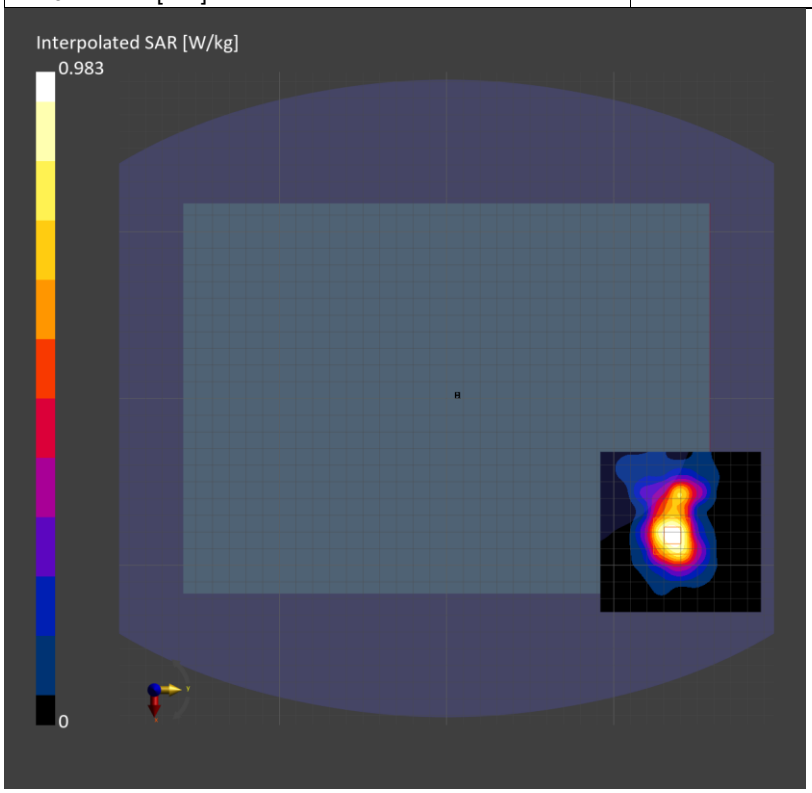
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 84.0	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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.807	0.817
psSAR8g [W/kg]	0.451	0.448
psSAR10g [W/kg]	0.413	0.429
Power Drift [dB]	0.04	-0.04
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		13.1



ID: 021
Report No. :TESA2407000466E5
Measurement Report_Bluetooth(GFSK)_Body_Back Surface_CH 0_0mm_Aux
Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	2402.0, 0	8.05	1.783	39.000

Hardware Setup

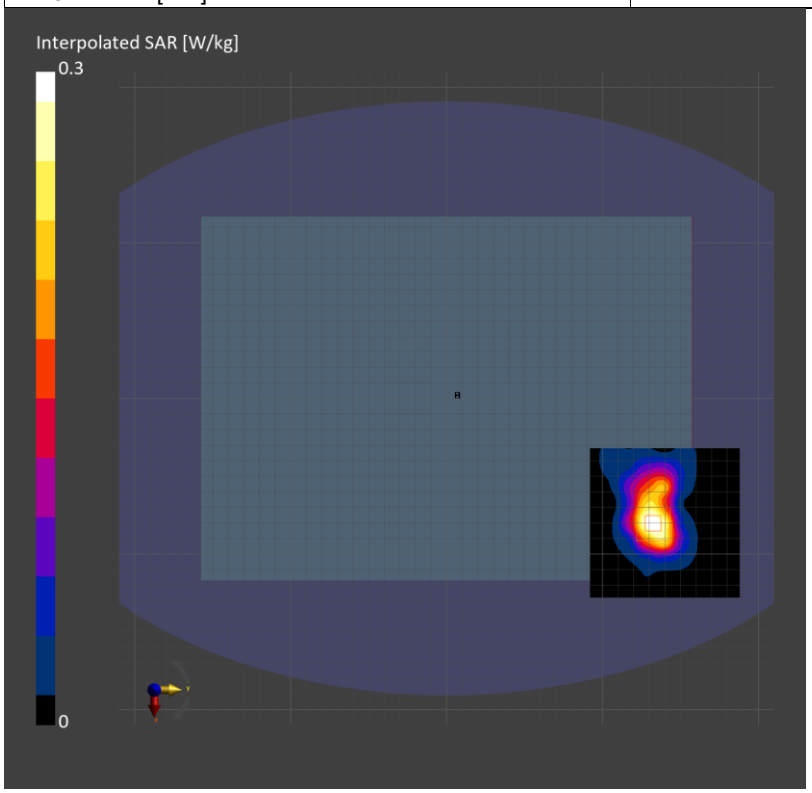
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-22	2024-08-22
psSAR1g [W/kg]	0.244	0.257
psSAR8g [W/kg]	0.137	0.148
psSAR10g [W/kg]	0.125	0.136
Power Drift [dB]	0.04	0.03
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		12.1



ID: 022
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5250.0, 50	5.95	4.695	35.644

Hardware Setup

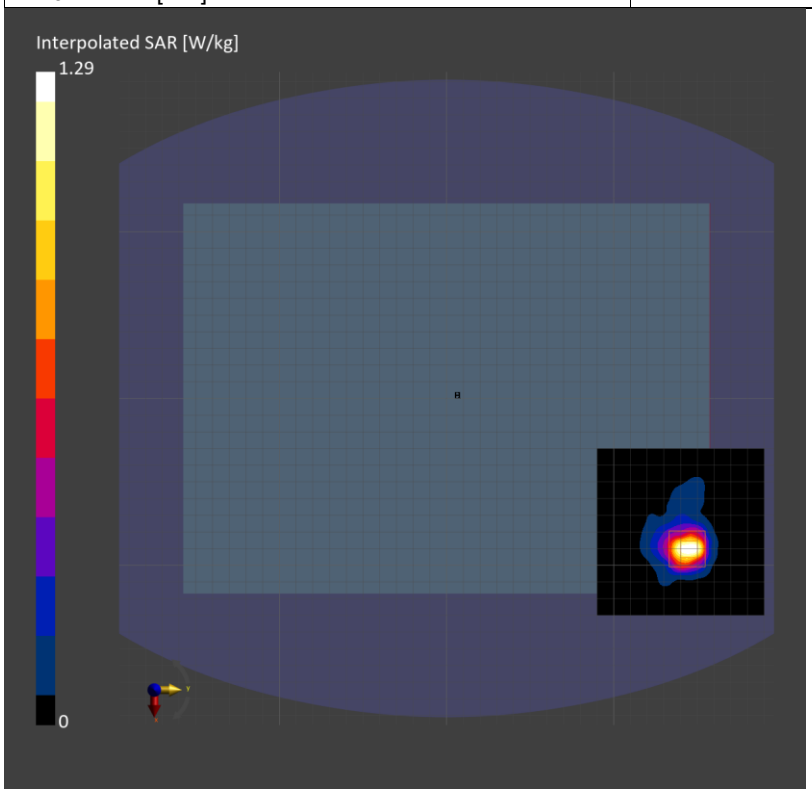
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.927	1.17
psSAR8g [W/kg]	0.351	0.427
psSAR10g [W/kg]	0.307	0.372
Power Drift [dB]	0.03	0.01
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		7.3



ID: 023
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5290.0, 58	5.95	4.736	35.598

Hardware Setup

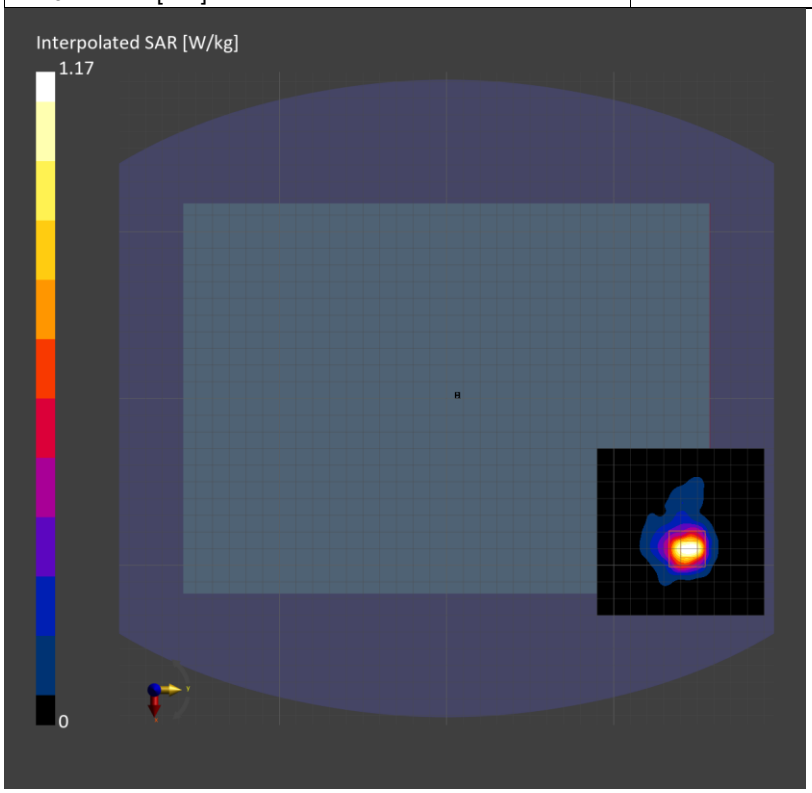
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.842	1.02
psSAR8g [W/kg]	0.317	0.370
psSAR10g [W/kg]	0.277	0.322
Power Drift [dB]	0.05	0.02
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		6.5



ID: 024
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 106_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5530.0, 106	5.18	4.983	35.324

Hardware Setup

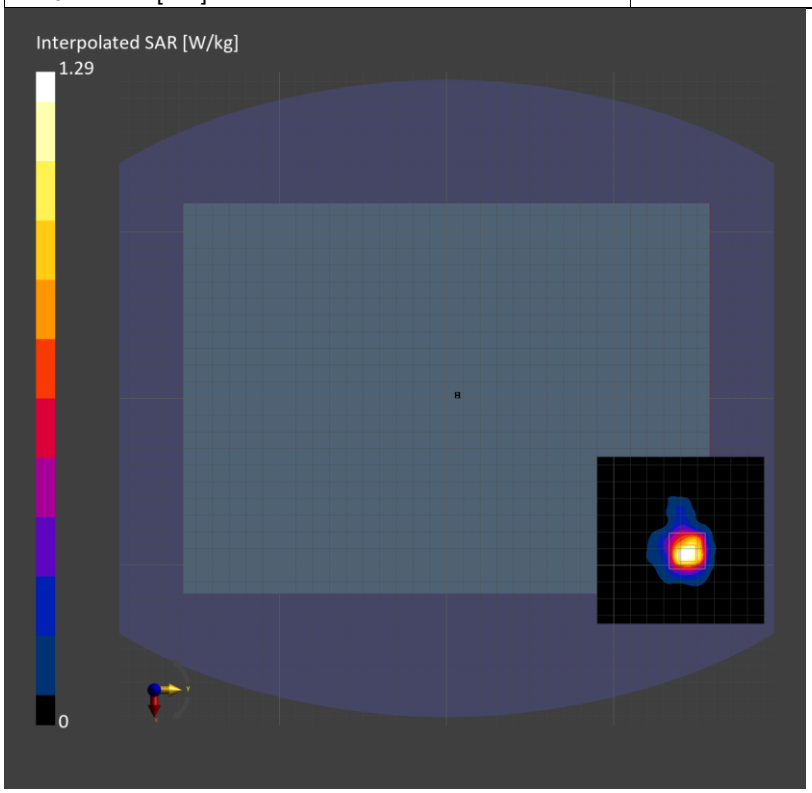
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.942	1.17
psSAR8g [W/kg]	0.356	0.411
psSAR10g [W/kg]	0.310	0.356
Power Drift [dB]	0.05	0.02
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		6.5



ID: 025
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5775.0, 155	5.10	5.233	35.044

Hardware Setup

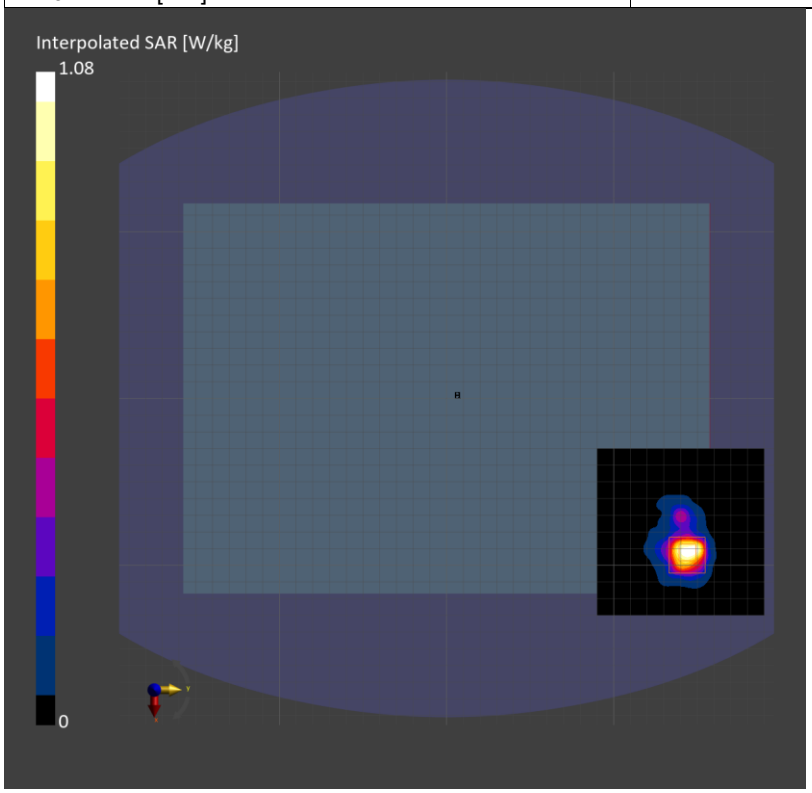
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.801	0.895
psSAR8g [W/kg]	0.295	0.321
psSAR10g [W/kg]	0.256	0.279
Power Drift [dB]	0.01	0.04
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		6.5



ID: 026
Report No. :TESA2407000466E5
Measurement Report_WLAN 802.11ac(160M) 5.9G_Body_Back Surface_CH 163_0mm_Aux
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	5815.0, 163	5.10	5.274	34.998

Hardware Setup

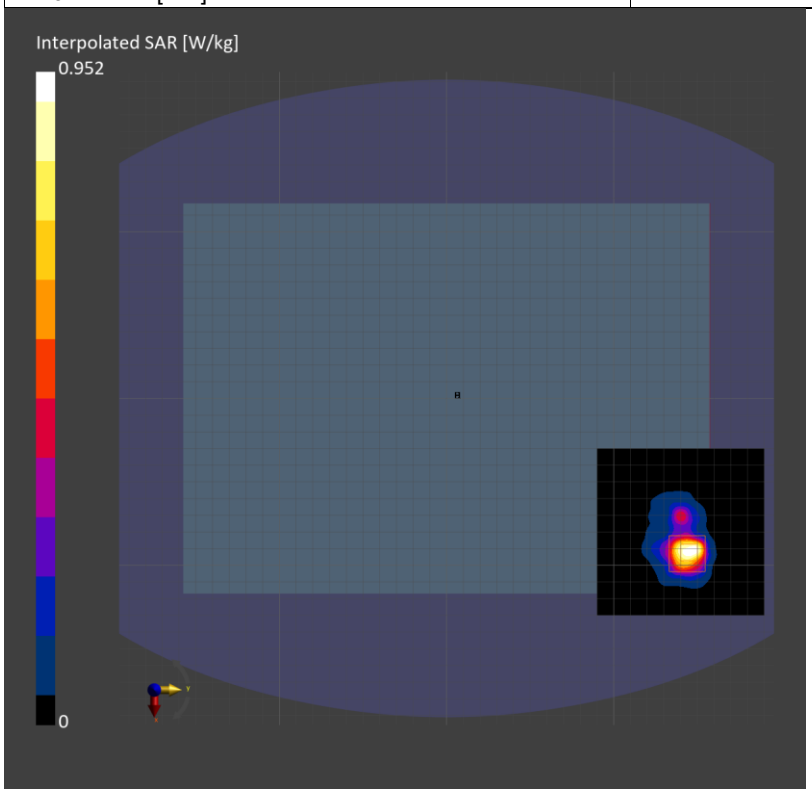
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	0.699	0.812
psSAR8g [W/kg]	0.258	0.291
psSAR10g [W/kg]	0.224	0.253
Power Drift [dB]	0.02	0.03
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		6.5



ID: 027
Report No. :TESA2407000466E5
Measurement Report_U-NII-5 6.2GHz 802.11be(320M)_Body_Bottom Surface_CH 63_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6265.0, 63	6.21	5.740	34.468

Hardware Setup

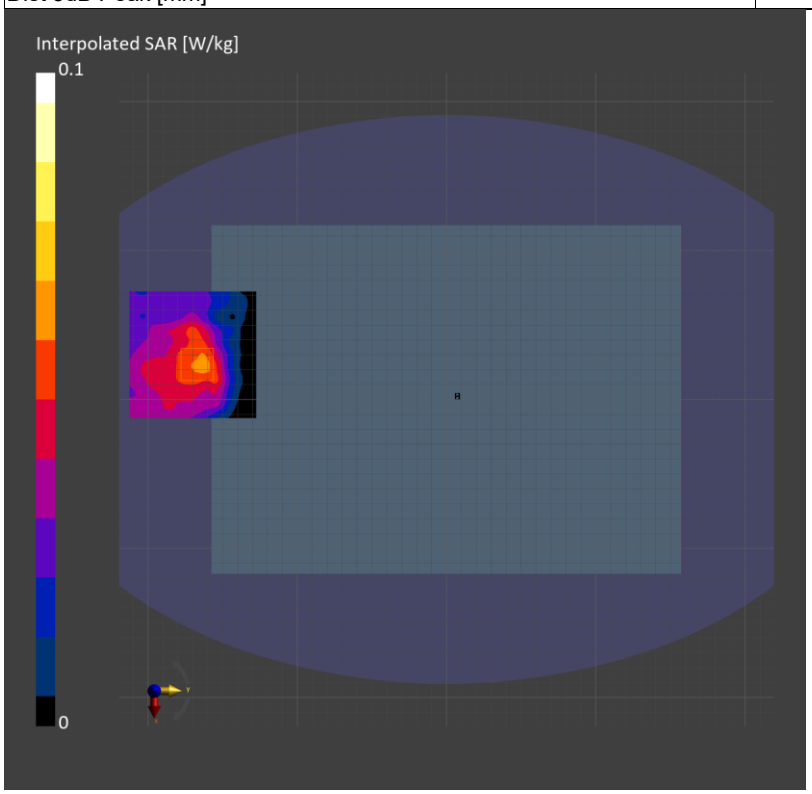
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.049	0.033
psSAR8g [W/kg]	0.024	0.016
psSAR10g [W/kg]	0.022	0.014
psPDab (4.0cm2, sq) [W/m2]		0.314
Power Drift [dB]	0.02	0.03
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		9.2



ID: 028
Report No. :TESA2407000466E5
Measurement Report_U-NII-6 6.5GHz 802.11be(320M)_Body_Bottom Surface_CH 111_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6.21	5.992	34.180

Hardware Setup

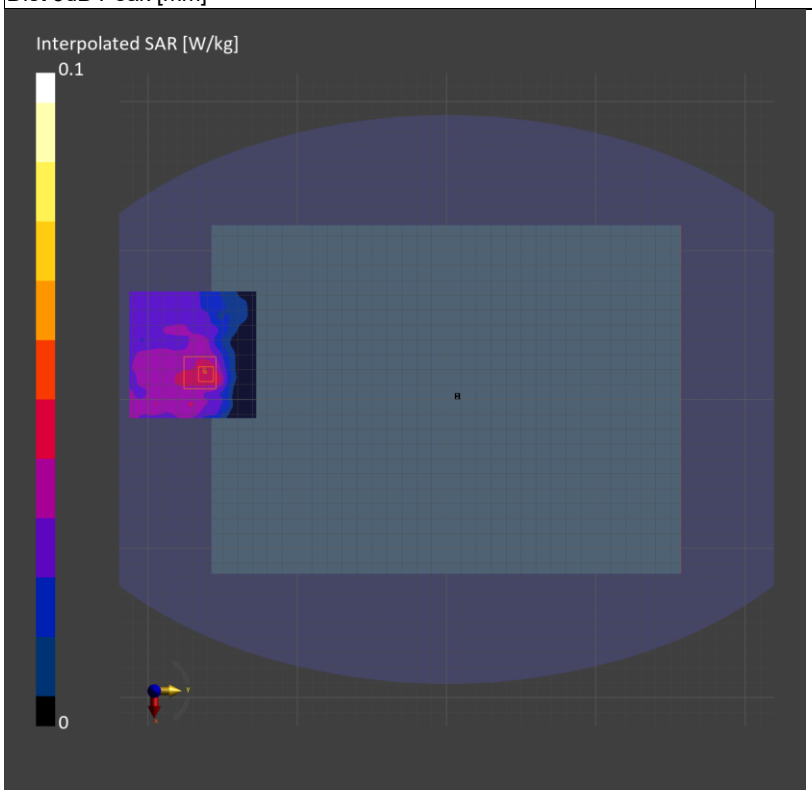
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.040	0.026
psSAR8g [W/kg]	0.019	0.012
psSAR10g [W/kg]	0.018	0.011
psPDab (4.0cm2, sq) [W/m2]		0.236
Power Drift [dB]	0.05	0.03
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		11.4



ID: 029
Report No. :TESA2407000466E5
Measurement Report_U-NII-7 6.7GHz 802.11be(320M)_Body_Bottom Surface_CH 159_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6745.0, 159	6.21	6.246	33.892

Hardware Setup

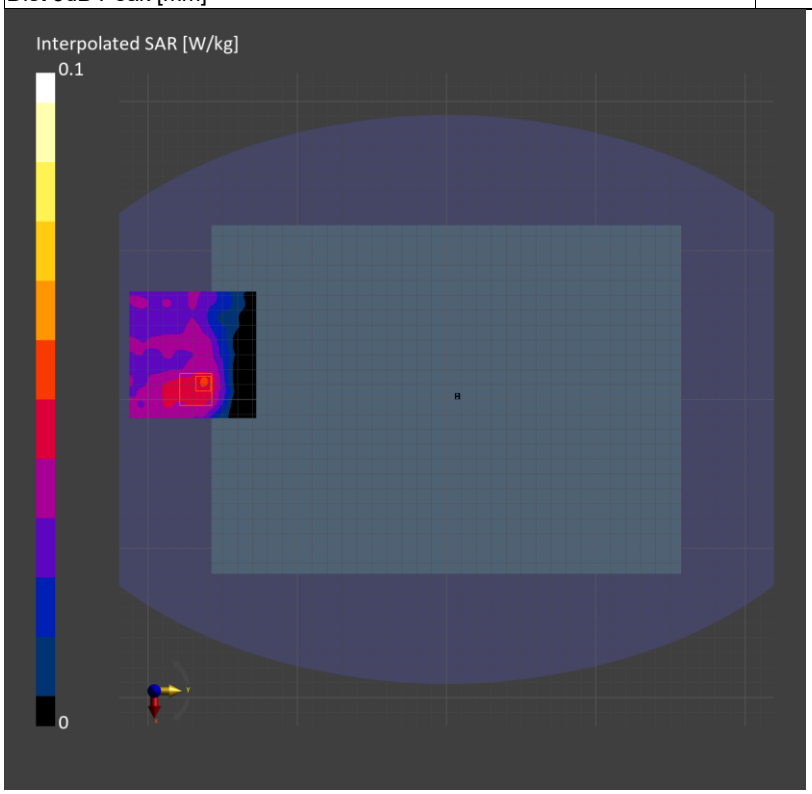
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.042	0.026
psSAR8g [W/kg]	0.020	0.012
psSAR10g [W/kg]	0.018	0.011
psPDab (4.0cm2, sq) [W/m2]		0.236
Power Drift [dB]	0.04	0.02
M2/M1 [%]		52.6
Dist 3dB Peak [mm]		13.9



ID: 030
Report No. :TESA2407000466E5
Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Bottom Surface_CH 191_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6905.0, 191	6.46	6.417	33.700

Hardware Setup

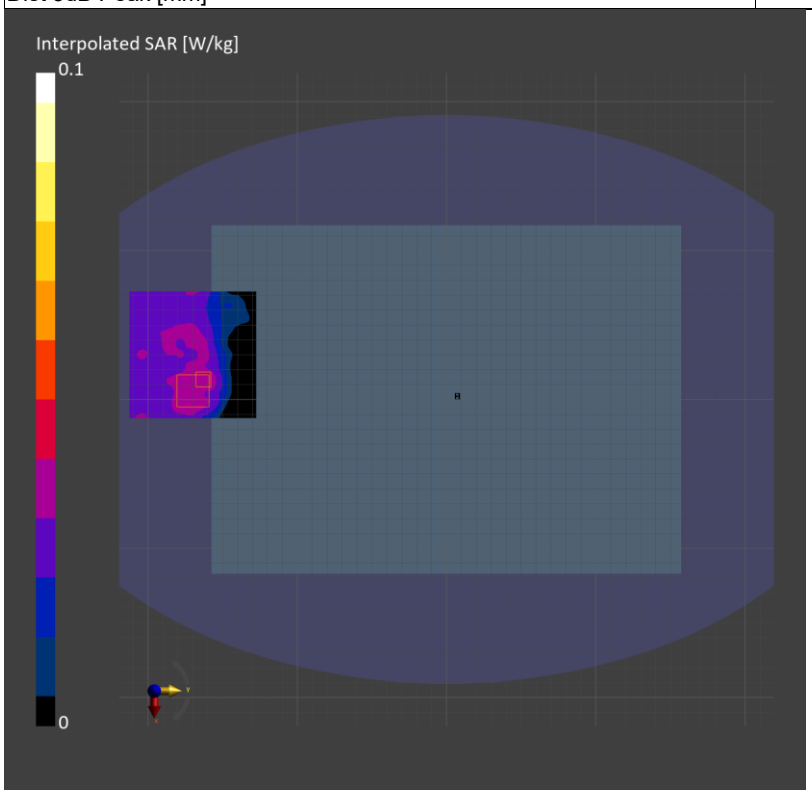
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.034	0.021
psSAR8g [W/kg]	0.016	0.009
psSAR10g [W/kg]	0.015	0.008
psPDab (4.0cm2, sq) [W/m2]		0.180
Power Drift [dB]	0.05	0.03
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		14.1



ID: 031
Report No. :TESA2407000466E5
Measurement Report_U-NII-5 6.2GHz 802.11be(320M)_Body_Bottom Surface_CH 31_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6105.0, 31	6.21	5.573	34.660

Hardware Setup

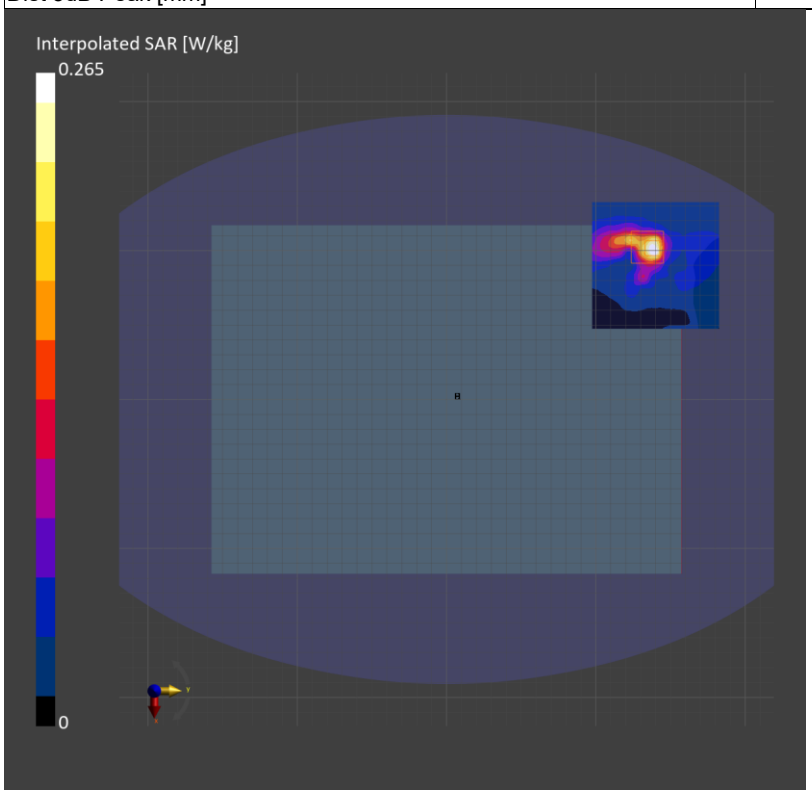
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.191	0.203
psSAR8g [W/kg]	0.072	0.067
psSAR10g [W/kg]	0.064	0.058
psPDab (4.0cm2, sq) [W/m2]		1.34
Power Drift [dB]	0.05	-0.03
M2/M1 [%]		57.1
Dist 3dB Peak [mm]		6.9



ID: 032
Report No. :TESA2407000466E5
Measurement Report_U-NII-6 6.5GHz 802.11ac(160M)_Body_Front Edge of Laptop_CH 111_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6.21	5.992	34.180

Hardware Setup

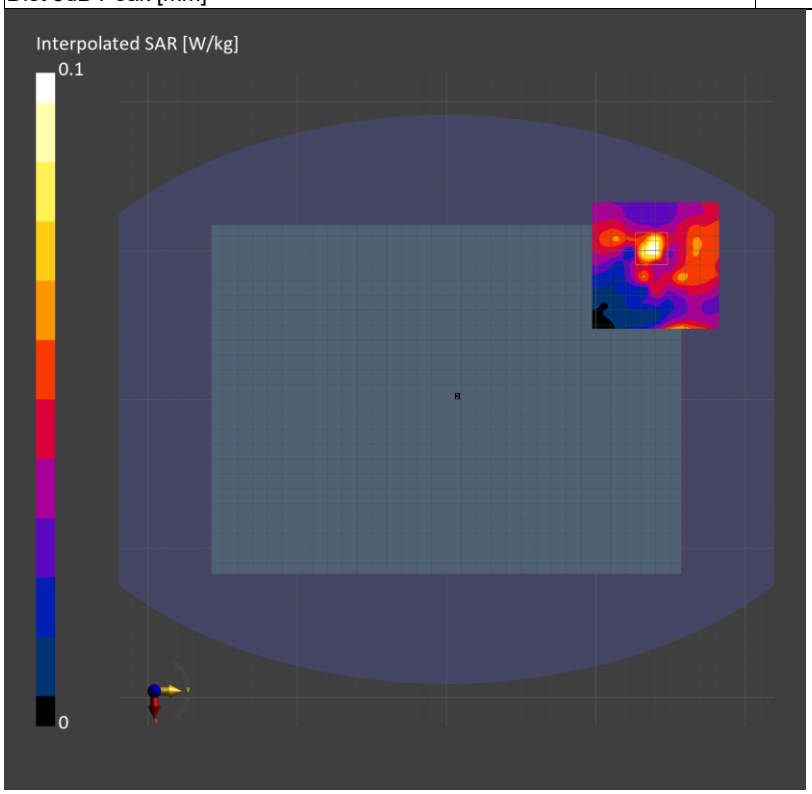
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.074	0.071
psSAR8g [W/kg]	0.028	0.021
psSAR10g [W/kg]	0.025	0.018
psPDab (4.0cm2, sq) [W/m2]		0.429
Power Drift [dB]	0.04	0.02
M2/M1 [%]		53.4
Dist 3dB Peak [mm]		5.8



ID: 033
Report No. :TESA2407000466E5
Measurement Report_U-NII-7 6.7GHz 802.11be(320M)_Body_Bottom Surface_CH 127_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6585.0, 127	6.21	6.076	34.084

Hardware Setup

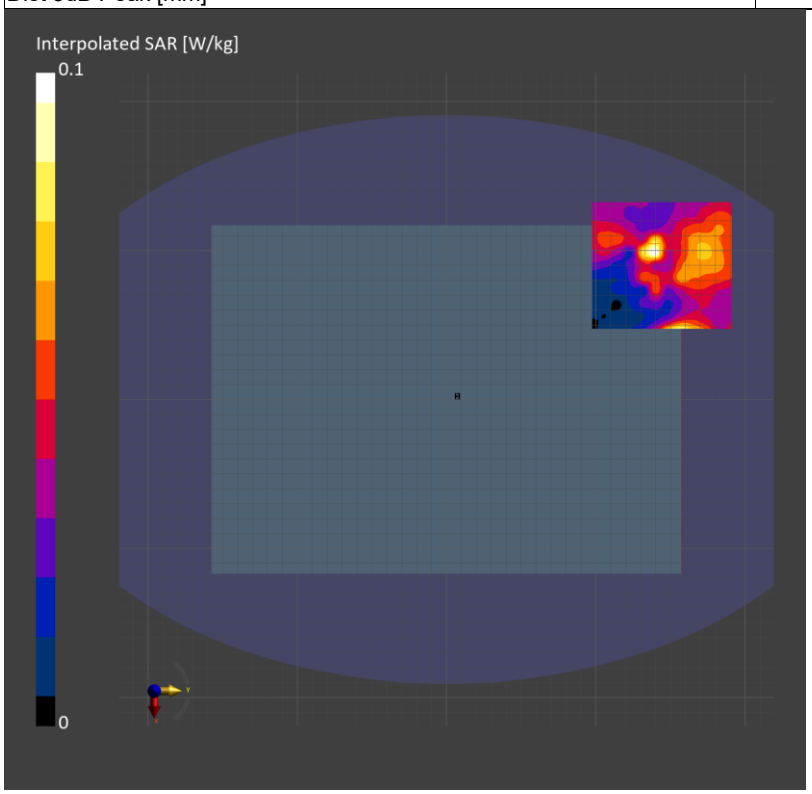
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.072	0.063
psSAR8g [W/kg]	0.028	0.018
psSAR10g [W/kg]	0.026	0.016
psPDab (4.0cm2, sq) [W/m2]		0.367
Power Drift [dB]	0.03	0.05
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		6.1



ID: 034
Report No. :TESA2407000466E5
Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Bottom Surface_CH 191_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°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	6905.0, 191	6.46	6.417	33.700

Hardware Setup

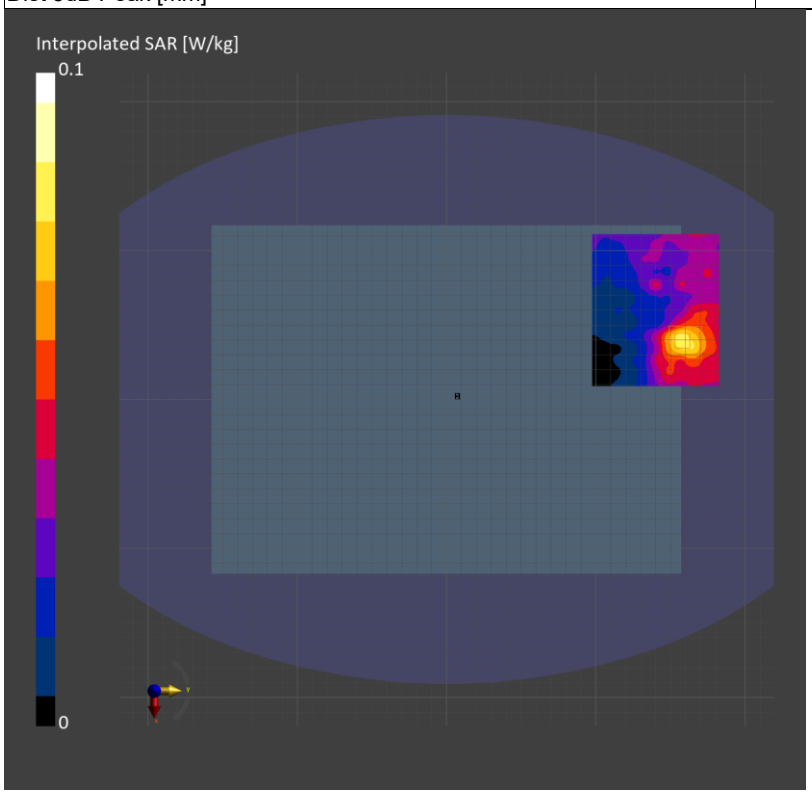
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 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	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.070	0.056
psSAR8g [W/kg]	0.031	0.024
psSAR10g [W/kg]	0.028	0.021
psPDab (4.0cm2, sq) [W/m2]		0.471
Power Drift [dB]	0.04	0.05
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		10.3



ID: 035
Report No. :TESA2407000466E5
Measurement Report_U-NII-5 6.2GHz 802.11be(320M)_Body_Back Surface_CH 63_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6265.0, 63	6.21	5.740	34.468

Hardware Setup

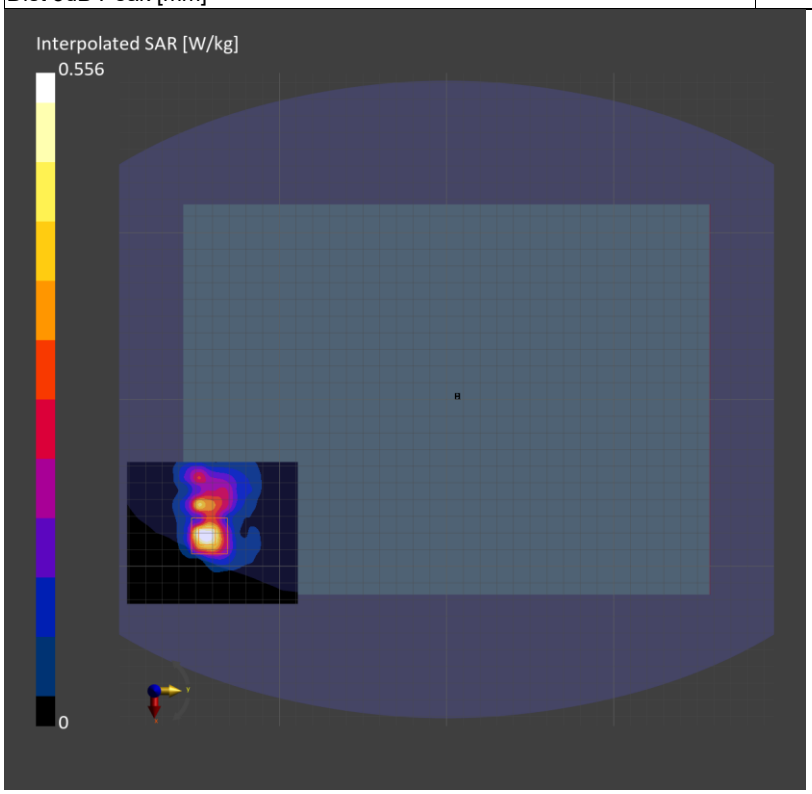
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.423	0.507
psSAR8g [W/kg]	0.153	0.164
psSAR10g [W/kg]	0.134	0.142
psPDab (4.0cm2, sq) [W/m2]		3.28
Power Drift [dB]	0.02	0.05
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		6.1



ID: 036
Report No. :TESA2407000466E5
Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Back Surface_CH 111_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6505.0, 111	6.21	5.992	34.180

Hardware Setup

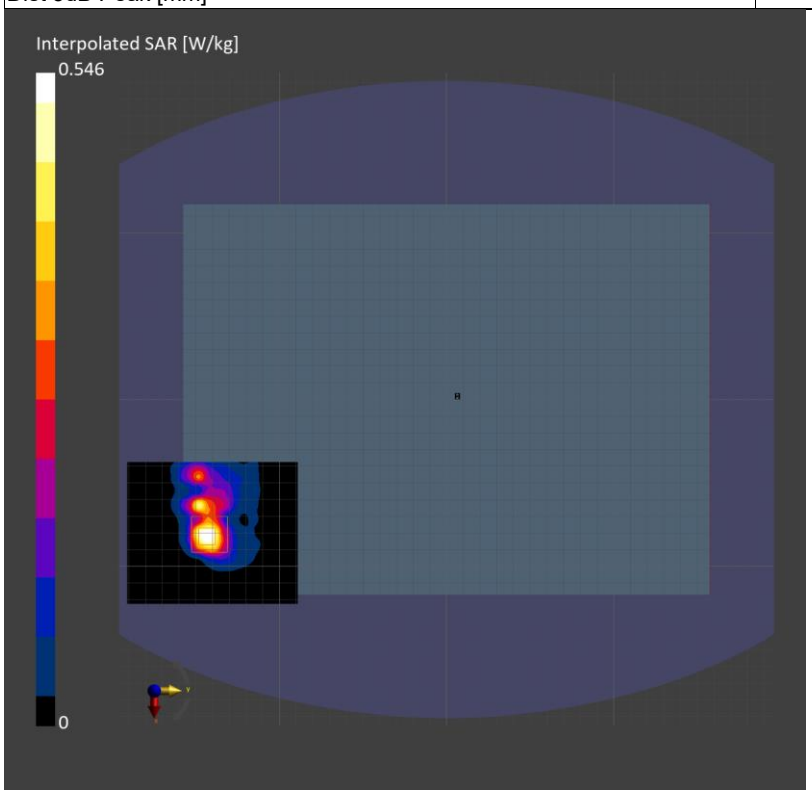
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.430	0.517
psSAR8g [W/kg]	0.156	0.169
psSAR10g [W/kg]	0.137	0.147
psPDab (4.0cm2, sq) [W/m2]		3.38
Power Drift [dB]	0.04	0.02
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		6.5



ID: 037
Report No. :TESA2407000466E5
Measurement Report_U-NII-7 6.7GHz 802.11be(320M)_Body_Back Surface_CH 159_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6745.0, 159	6.21	6.246	33.892

Hardware Setup

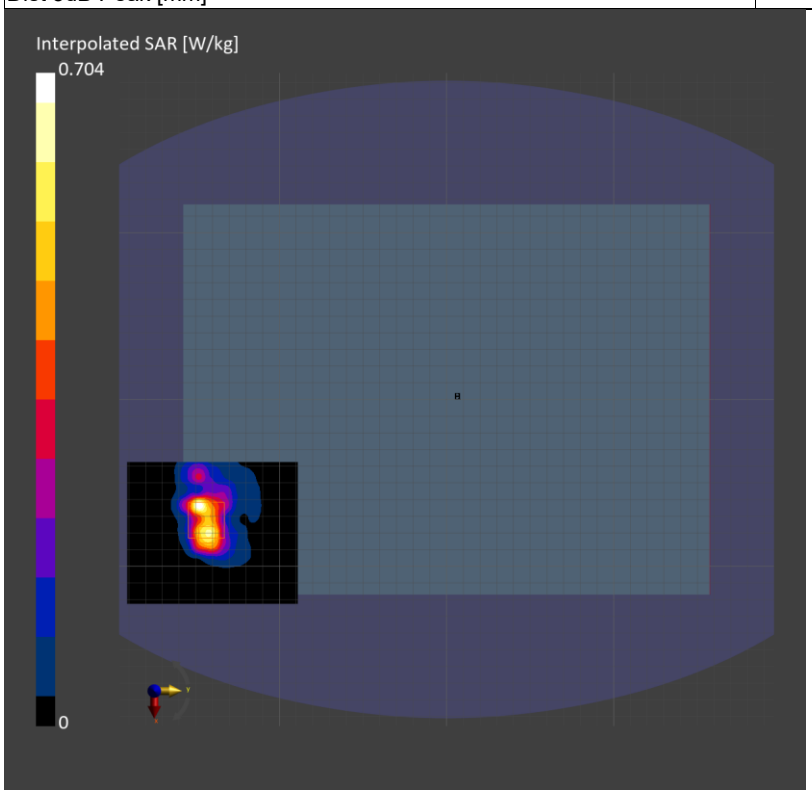
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.483	0.541
psSAR8g [W/kg]	0.192	0.192
psSAR10g [W/kg]	0.174	0.183
psPDab (4.0cm2, sq) [W/m2]		3.84
Power Drift [dB]	0.05	0.05
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		7.0



ID: 038
Report No. :TESA2407000466E5
Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Back Surface_CH 191_0mm_Main
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6905.0, 191	6.46	6.417	33.700

Hardware Setup

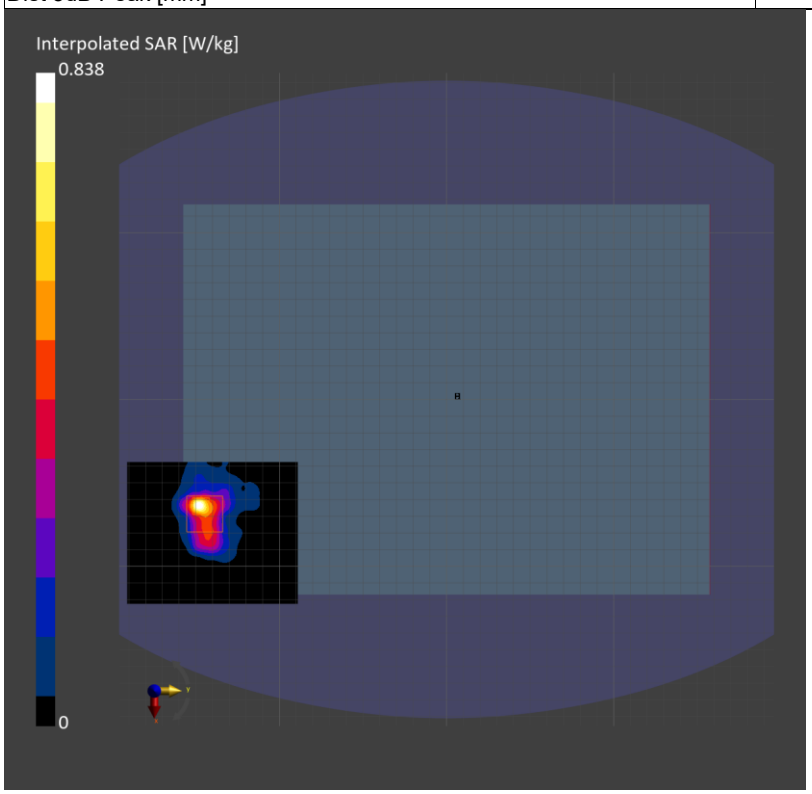
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.563	0.631
psSAR8g [W/kg]	0.200	0.204
psSAR10g [W/kg]	0.178	0.178
psPDab (4.0cm2, sq) [W/m2]		4.09
Power Drift [dB]	0.03	0.03
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		6.5



ID: 039
Report No. :TESA2407000466E5
Measurement Report_U-NII-5 6.2GHz 802.11be(320M)_Body_Back Surface_CH 31_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6105.0, 31	6.21	5.573	34.660

Hardware Setup

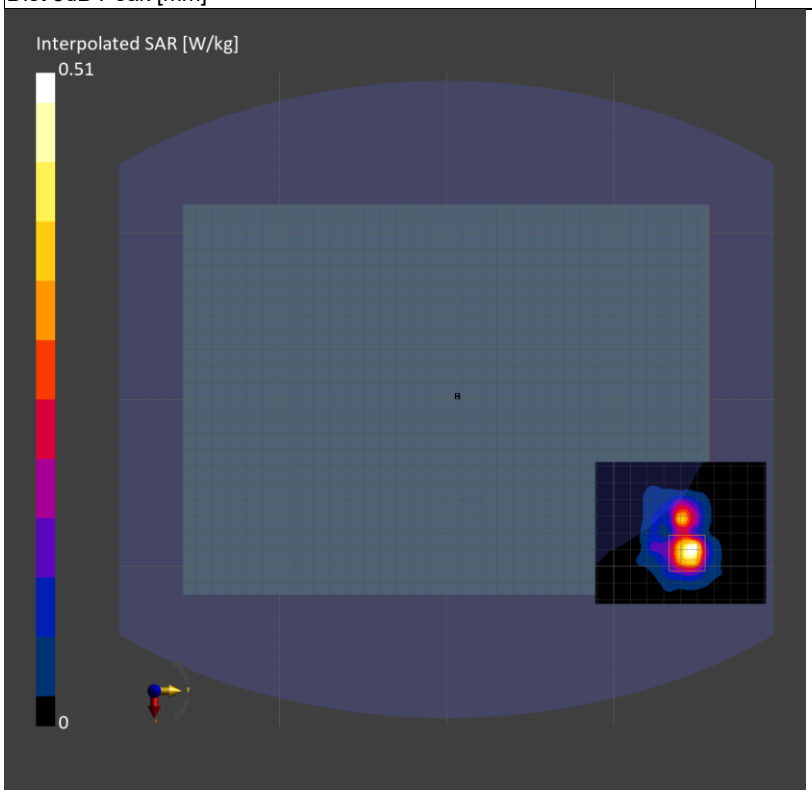
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.361	0.394
psSAR8g [W/kg]	0.130	0.135
psSAR10g [W/kg]	0.113	0.116
psPDab (4.0cm2, sq) [W/m2]		2.69
Power Drift [dB]	0.04	0.03
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		6.2



ID: 040
Report No. :TESA2407000466E5
Measurement Report_U-NII-6 6.5GHz 802.11ax(160M)_Body_Back Surface_CH 111_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6505.0, 111	6.21	5.992	34.180

Hardware Setup

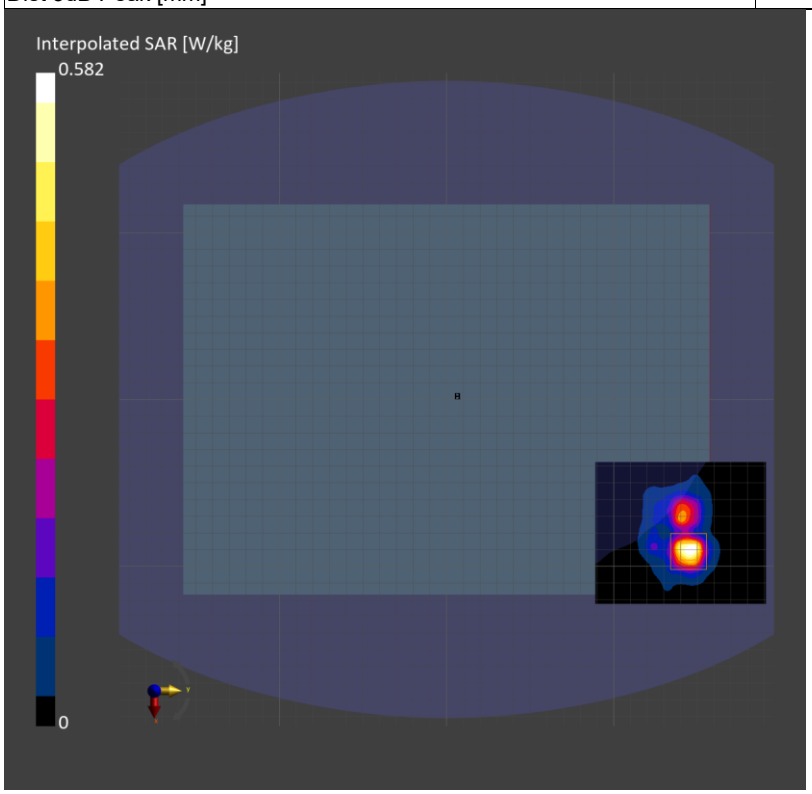
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.437	0.467
psSAR8g [W/kg]	0.148	0.151
psSAR10g [W/kg]	0.128	0.129
psPDab (4.0cm2, sq) [W/m2]		3.03
Power Drift [dB]	0.05	0.04
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		6.3



ID: 041
Report No. :TESA2407000466E5
Measurement Report_U-NII-7 6.7GHz 802.11be(320M)_Body_Back Surface_CH 159_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6745.0, 159	6.21	6.246	33.892

Hardware Setup

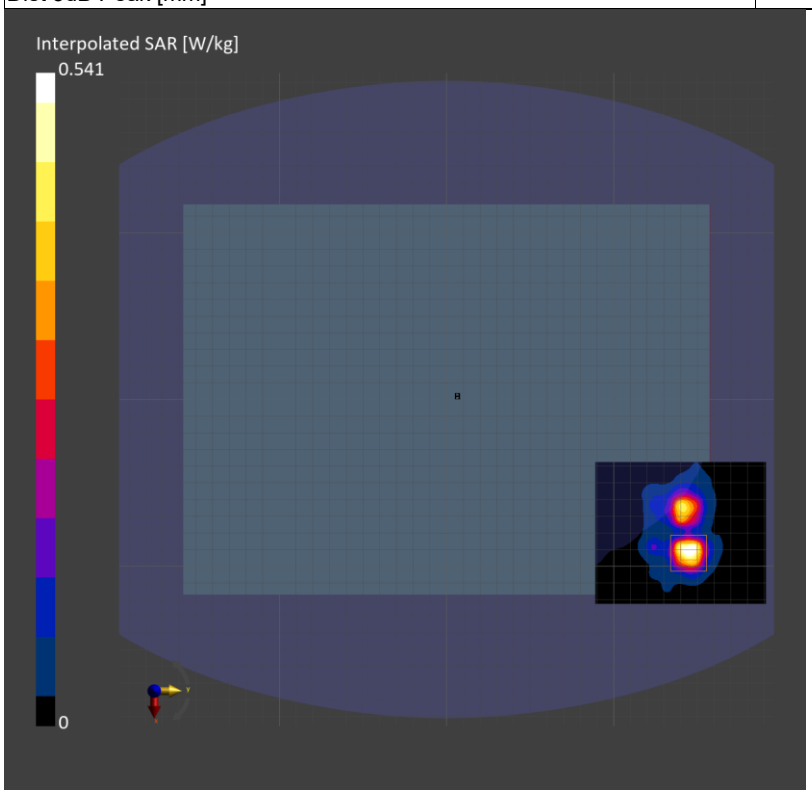
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.427	0.451
psSAR8g [W/kg]	0.142	0.142
psSAR10g [W/kg]	0.121	0.121
psPDab (4.0cm2, sq) [W/m2]		2.84
Power Drift [dB]	0.05	0.04
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		6.3



ID: 042
Report No. :TESA2407000466E5
Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Back Surface_CH 191_0mm_Aux
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6905.0, 191	6.46	6.417	33.700

Hardware Setup

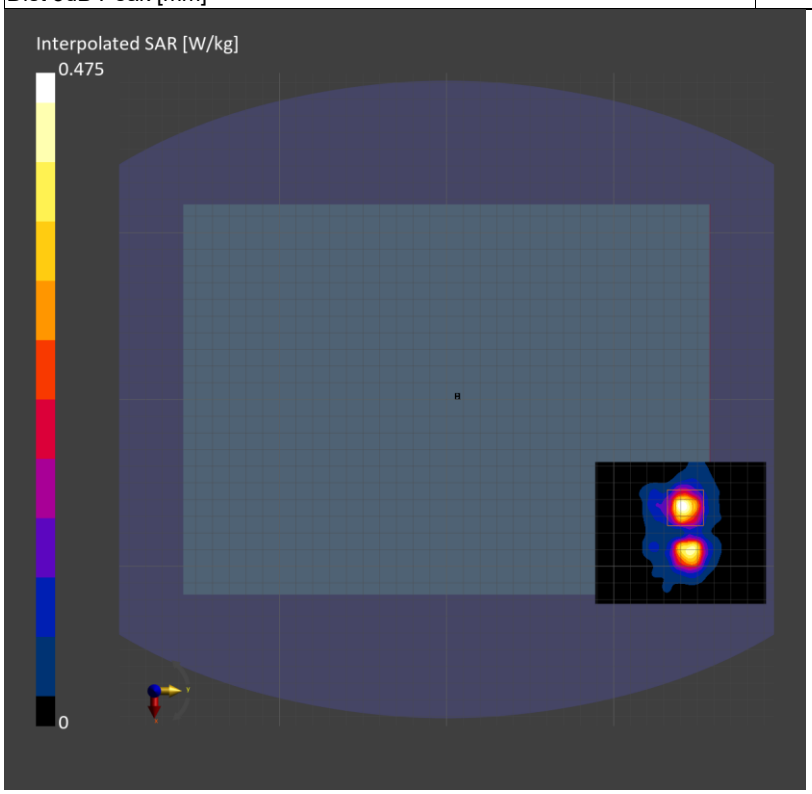
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	0.360	0.378
psSAR8g [W/kg]	0.122	0.121
psSAR10g [W/kg]	0.105	0.103
psPDab (4.0cm2, sq) [W/m2]		2.42
Power Drift [dB]	0.01	0.03
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		6.9



13 PD MEASUREMENT RESULTS

ID: 043
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-5,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 63 (6265.0 MHz)

Exposure Conditions

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

Hardware Setup

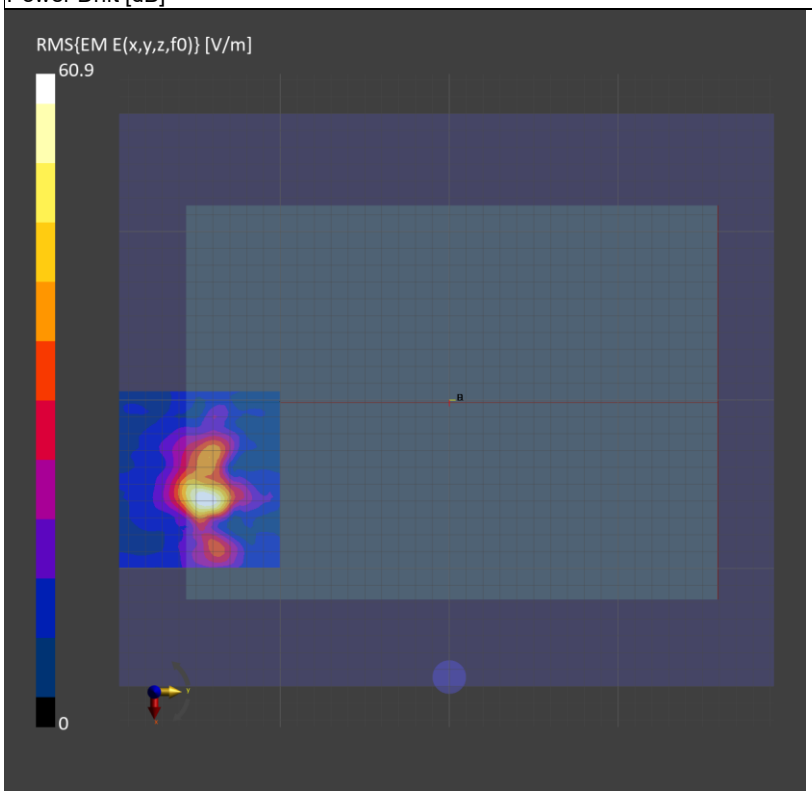
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-25
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	3.77
psPDtot+ [W/m^2]	4.53
psPDmod+ [W/m^2]	4.90
E_{max} [V/m]	60.9
Power Drift [dB]	0.04



ID: 044
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

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

Hardware Setup

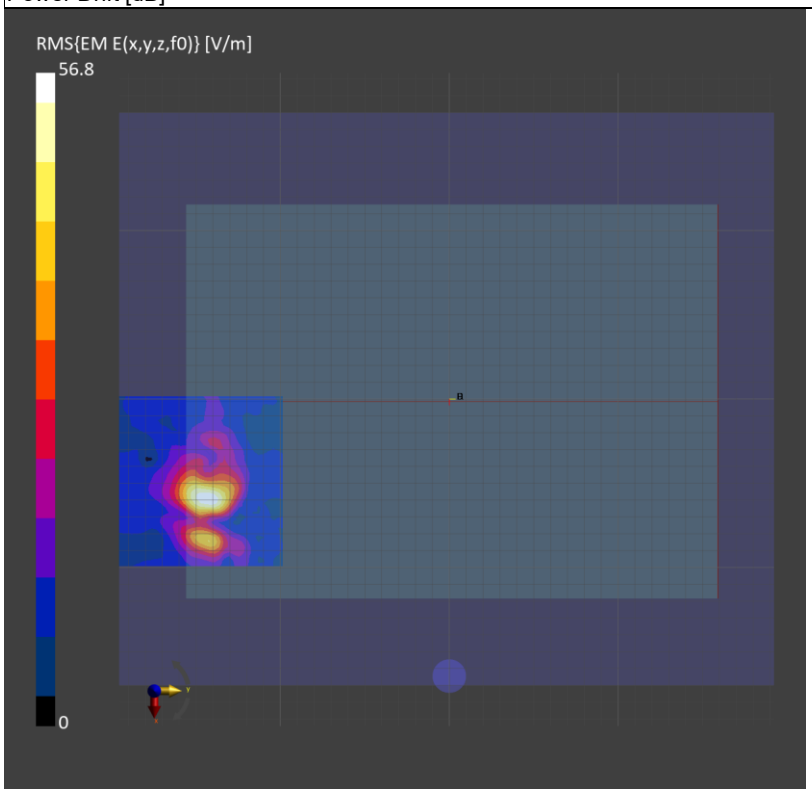
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-25
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.66
psPDtot+ [W/m^2]	3.47
psPDmod+ [W/m^2]	3.94
E_{max} [V/m]	56.8
Power Drift [dB]	0.04



ID: 045
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-7,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 159 (6745.0 MHz)

Exposure Conditions

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

Hardware Setup

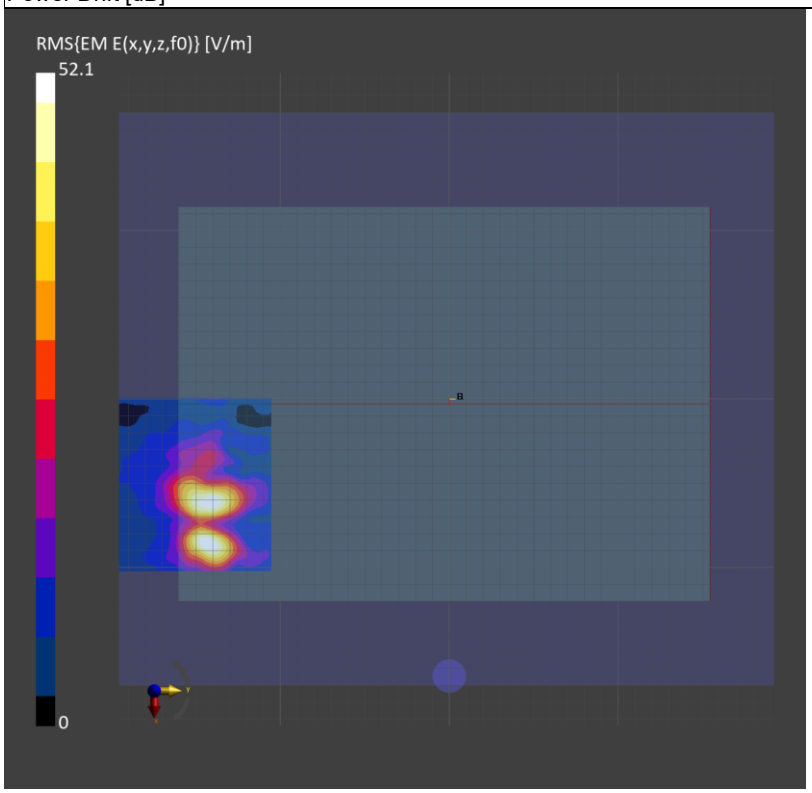
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-25
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.44
psPDtot+ [W/m^2]	3.27
psPDmod+ [W/m^2]	3.58
E_{max} [V/m]	52.1
Power Drift [dB]	0.03



ID: 046
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-8,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)

Exposure Conditions

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

Hardware Setup

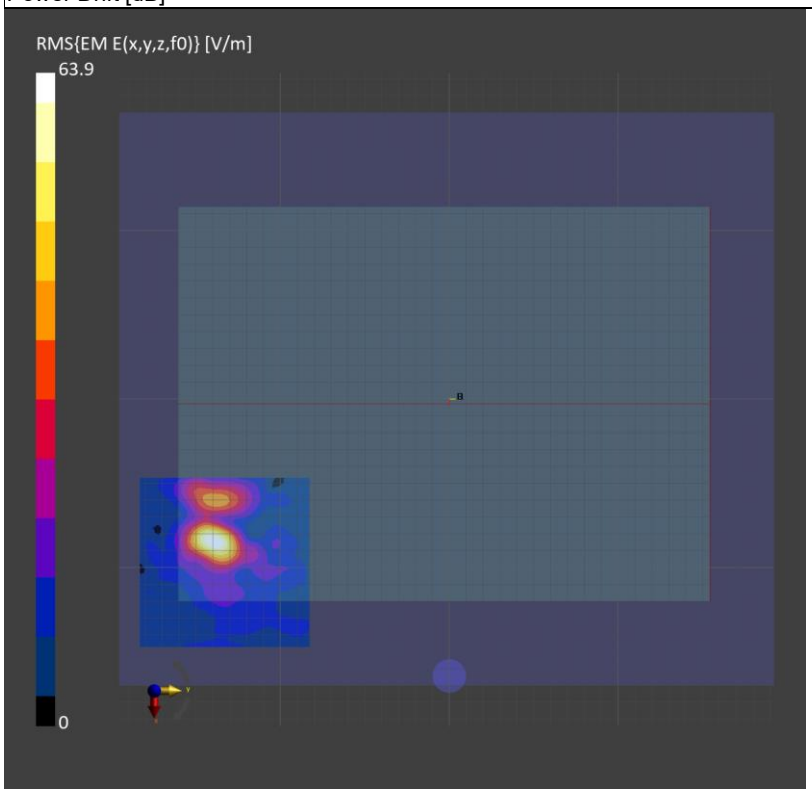
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-25
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	3.78
psPDtot+ [W/m^2]	4.92
psPDmod+ [W/m^2]	5.40
E_{max} [V/m]	63.9
Power Drift [dB]	0.03



ID: 047
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-5,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 31 (6105.0 MHz)

Exposure Conditions

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

Hardware Setup

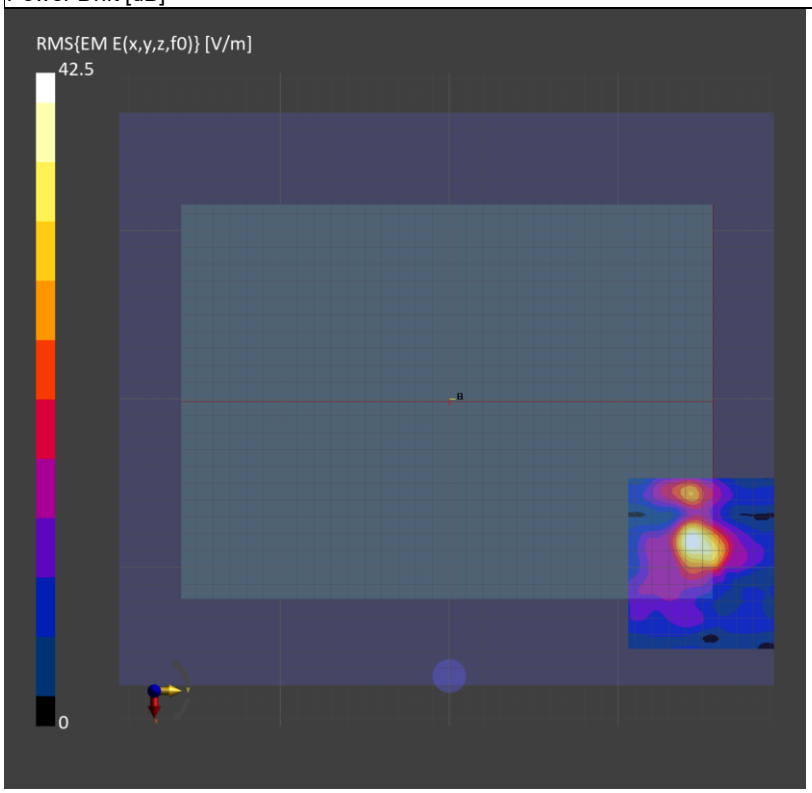
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-26
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	1.26
psPDtot+ [W/m^2]	1.53
psPDmod+ [W/m^2]	1.80
E_{max} [V/m]	52.5
Power Drift [dB]	-0.02



ID: 048
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

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

Hardware Setup

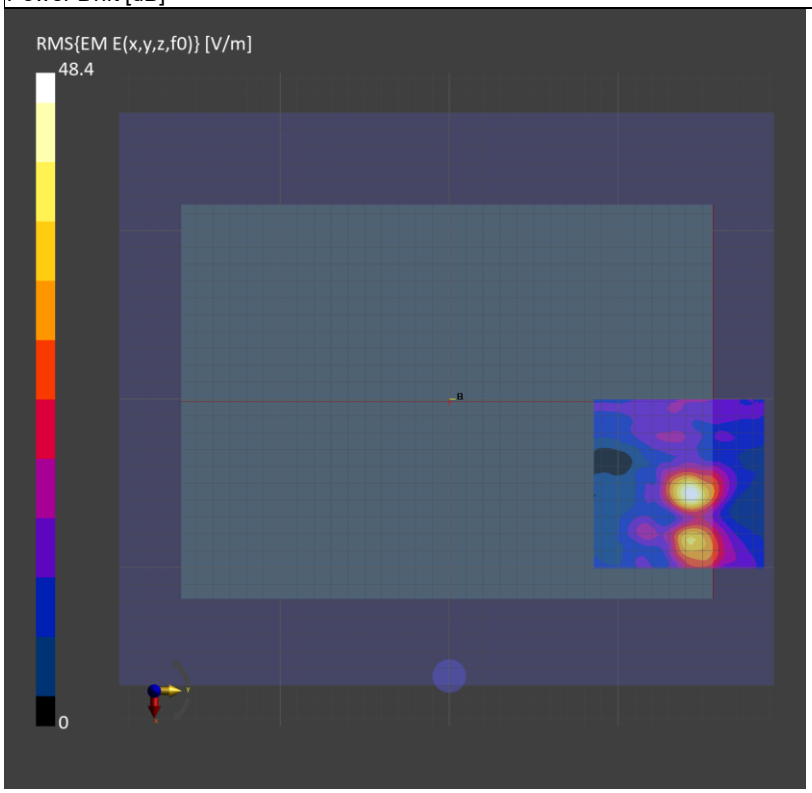
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-26
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.30
psPDtot+ [W/m^2]	3.05
psPDmod+ [W/m^2]	3.37
E_{max} [V/m]	58.4
Power Drift [dB]	-0.02



ID: 049
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-7,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 159 (6745.0 MHz)

Exposure Conditions

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

Hardware Setup

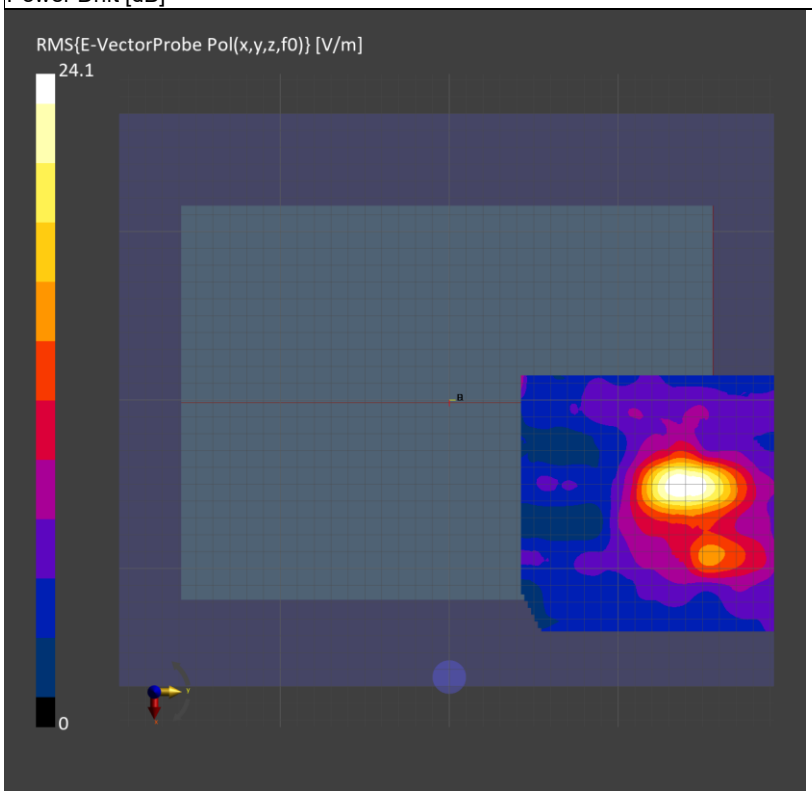
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

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
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-08-26
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	1.94
psPDtot+ [W/m^2]	2.41
psPDmod+ [W/m^2]	2.97
E_{max} [V/m]	58.2
Power Drift [dB]	-0.04



ID: 050
Report No. :TESA2407000466E5
Measurement Report_Back Surface, U-NII-8,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)

Exposure Conditions

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

Hardware Setup

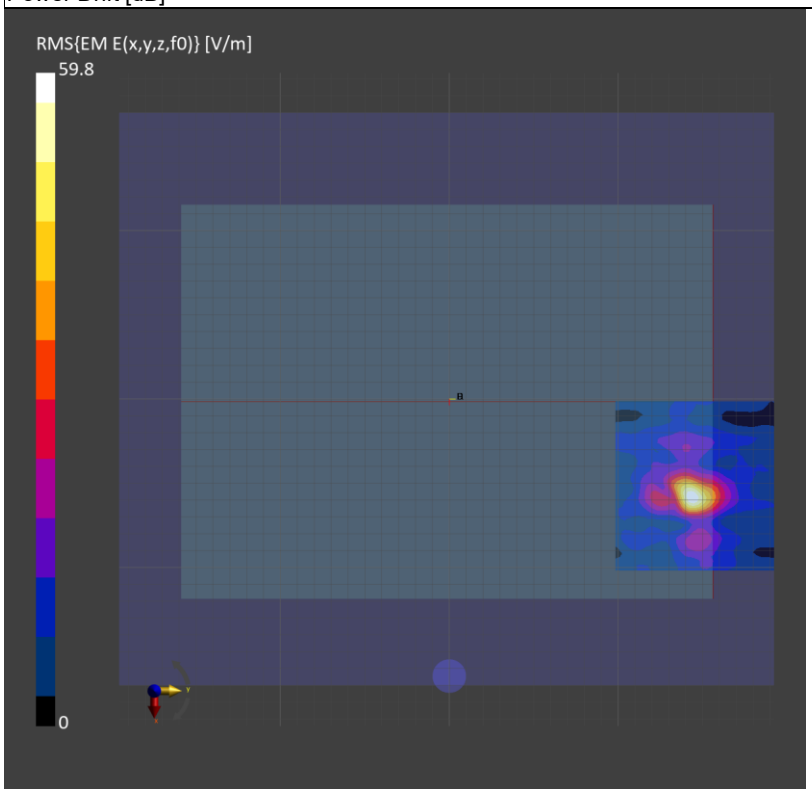
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2024-08-26
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	2.32
psPDtot+ [W/m^2]	2.85
psPDmod+ [W/m^2]	3.31
E_{max} [V/m]	59.8
Power Drift [dB]	-0.05



14 SAR SYSTEM CHECK RESULTS

Report No. :TESA2407000466E5
Measurement Report
Dipole_D6500-SN:1029
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	6.21	5.986	34.186

Hardware Setup

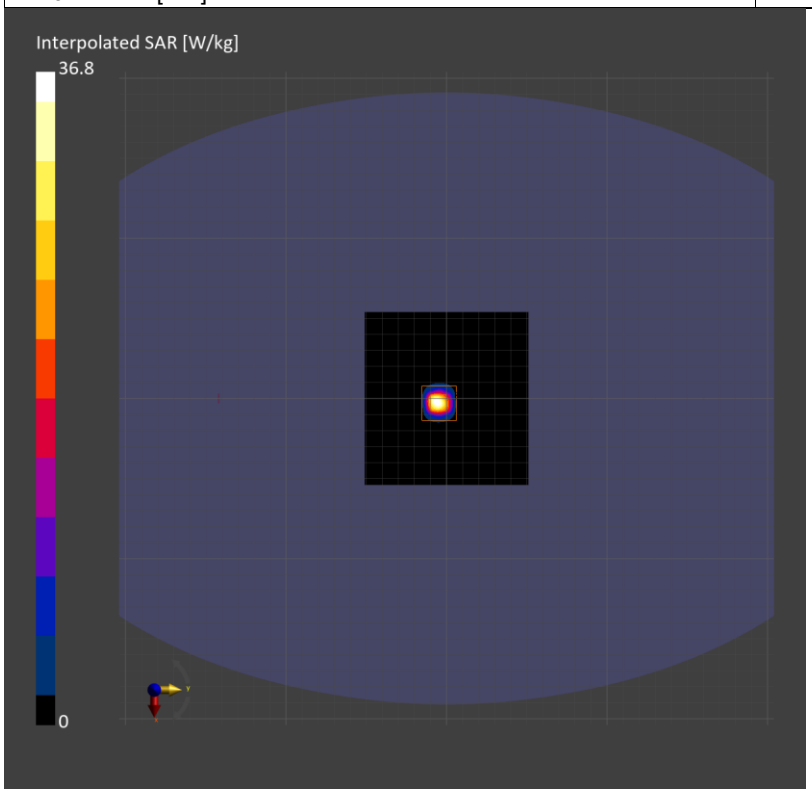
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	24.0	28.8
psSAR8g [W/kg]	6.28	6.67
psSAR10g [W/kg]	5.21	5.48
psPDab (4.0cm2, sq) [W/m2]		132
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		4.8



Report No. : TESA2407000466E5
Measurement Report
Dipole_D7000-SN:1009
Ambient temperature: 22.4°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	6.46	6.518	33.586

Hardware Setup

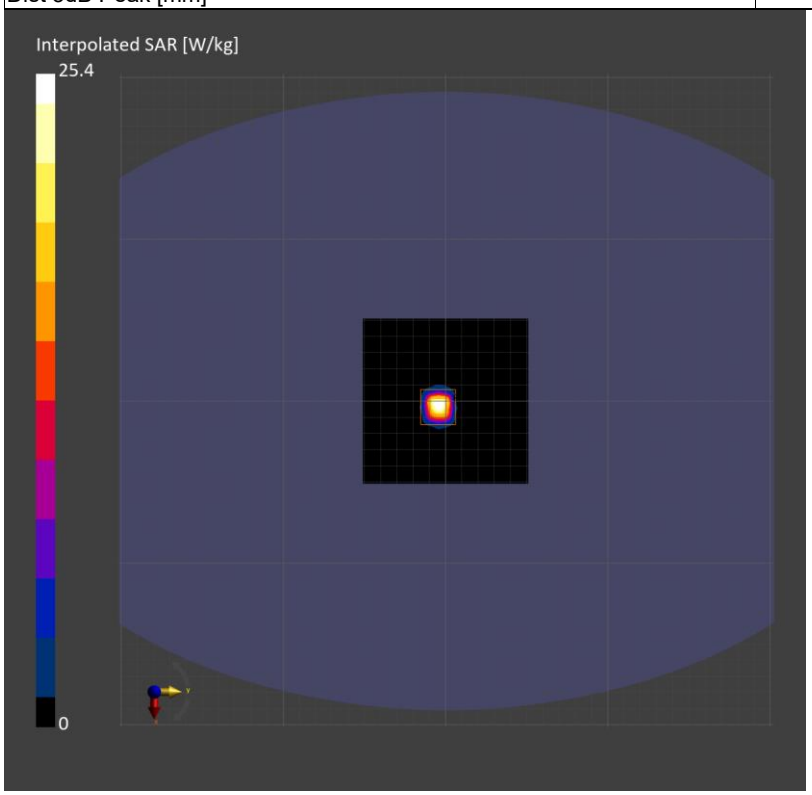
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-24	2024-08-24
psSAR1g [W/kg]	20.4	27.6
psSAR8g [W/kg]	5.80	6.21
psSAR10g [W/kg]	4.83	5.10
psPDab (4.0cm2, sq) [W/m2]		124
Power Drift [dB]	-0.05	-0.01
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		4.8



Report No. :TESA2407000466E5
Measurement Report
Dipole_D2450-SN:727
Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	8.05	1.824	38.915

Hardware Setup

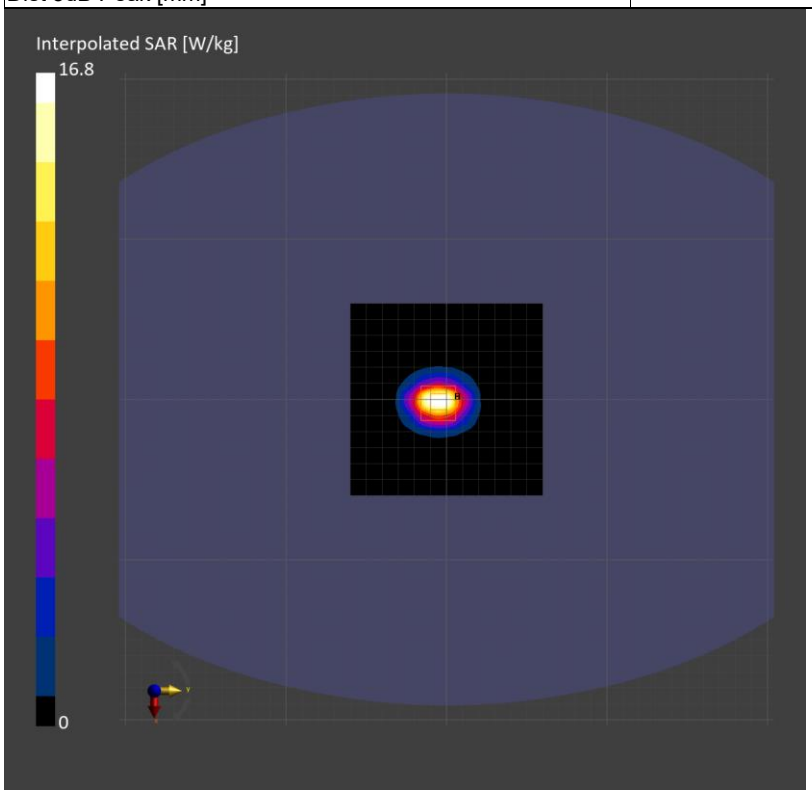
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2024-08-23	2024-08-24
psSAR1g [W/kg]	13.3	13.7
psSAR8g [W/kg]	6.86	7.02
psSAR10g [W/kg]	6.20	6.35
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		9.3



Report No. :TESA2407000466E5
Measurement Report
Dipole_D5250-SN:1023
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.95	4.695	35.644

Hardware Setup

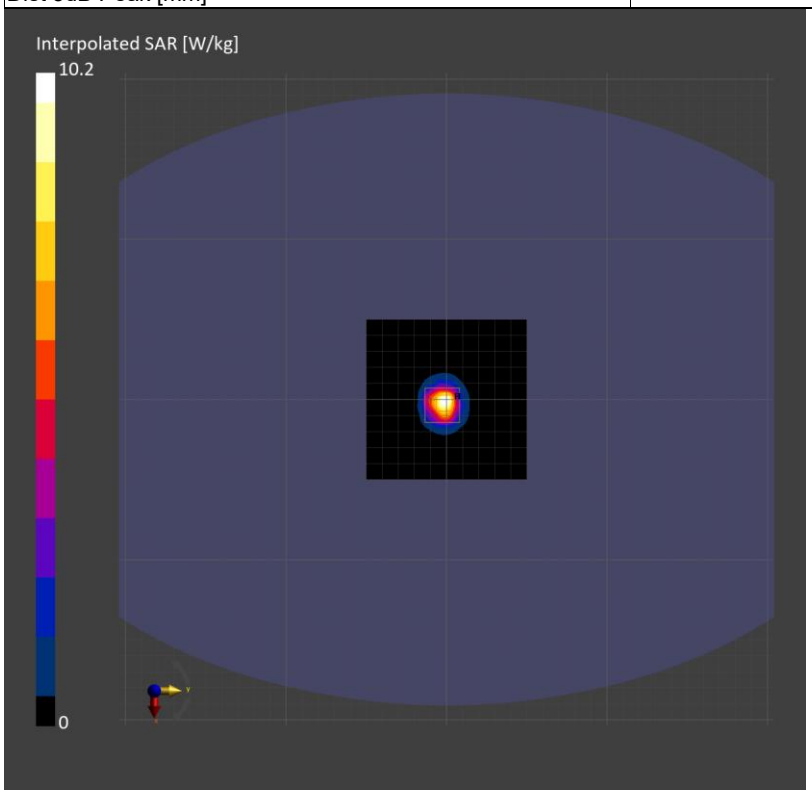
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	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	2024-08-23	2024-08-23
psSAR1g [W/kg]	6.75	7.84
psSAR8g [W/kg]	2.39	2.61
psSAR10g [W/kg]	2.07	2.24
Power Drift [dB]	-0.03	-0.04
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		7.2



Report No. :TESA2407000466E5
Measurement Report
Dipole_D5600-SN:1023
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.18	5.054	35.244

Hardware Setup

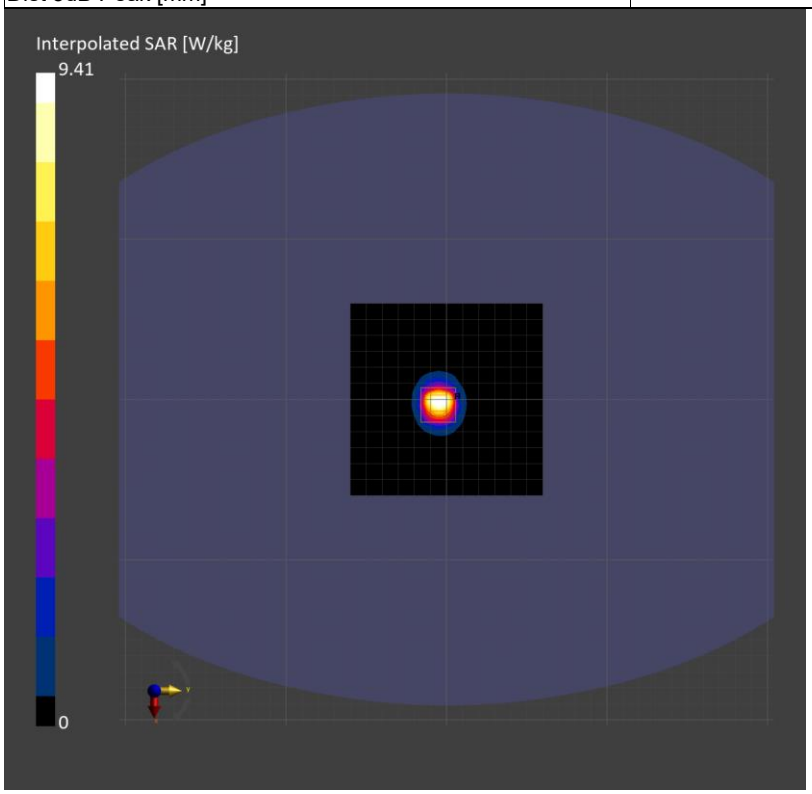
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 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	2024-08-23	2024-08-23
psSAR1g [W/kg]	6.87	8.00
psSAR8g [W/kg]	2.51	2.70
psSAR10g [W/kg]	2.17	2.32
Power Drift [dB]	-0.02	-0.04
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		7.9



Report No. :TESA2407000466E5
Measurement Report
Dipole_D5750-SN:1023
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.36	5.207	35.072

Hardware Setup

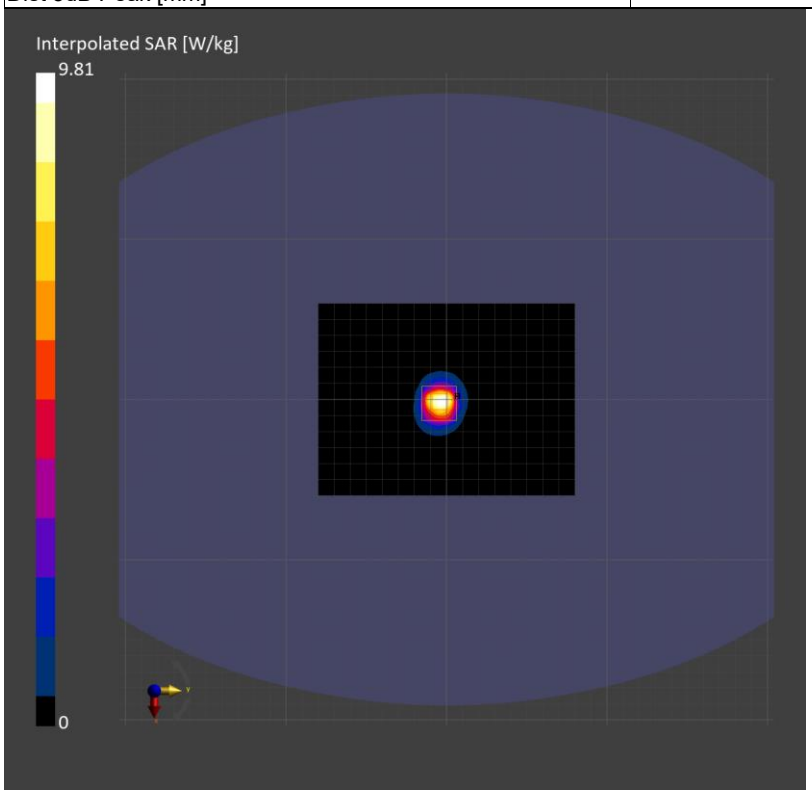
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	7.03	8.17
psSAR8g [W/kg]	2.53	2.72
psSAR10g [W/kg]	2.19	2.31
Power Drift [dB]	0.04	-0.03
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		7.4



Report No. :TESA2407000466E5
Measurement Report
Dipole_D5850-SN:1023
Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.10	5.310	34.958

Hardware Setup

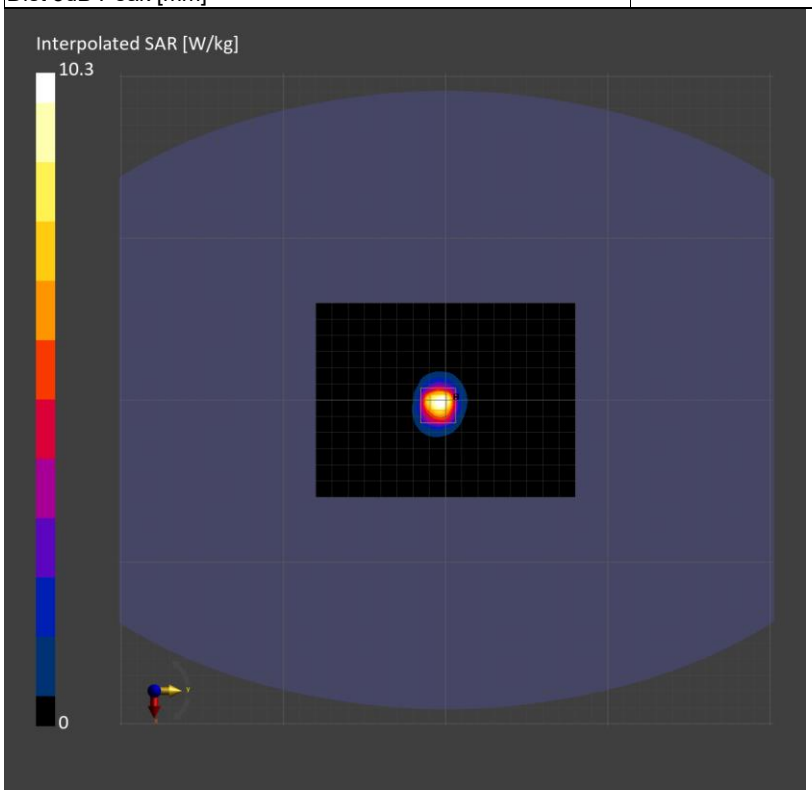
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2023-09-21	DAE4 Sn558, 2023-11-20

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	2024-08-24	2024-08-24
psSAR1g [W/kg]	7.02	8.16
psSAR8g [W/kg]	2.57	2.75
psSAR10g [W/kg]	2.21	2.32
Power Drift [dB]	0.06	0.04
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		7.6



15 PD SYSTEM CHECK RESULTS

Report No. :TESA2407000466E5
Measurement Report
5G Verification Souce 10GHz-SN:1021

Exposure Conditions

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

Hardware Setup

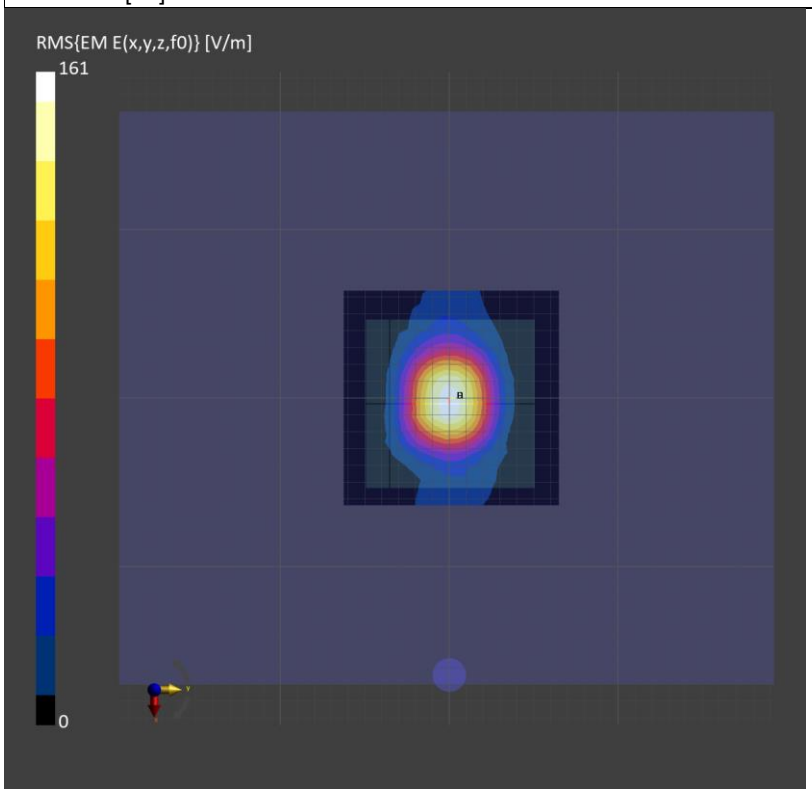
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9635_F1-55GHz, 2024-04-16	DAE4 Sn558, 2023-11-20

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
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2024-08-25
Avg. Area [cm^2]	4.00
psPDn+ [W/m^2]	55.2
psPDtot+ [W/m^2]	55.3
psPDmod+ [W/m^2]	55.4
E_{max} [V/m]	156
Power Drift [dB]	0.04



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 -