

RF Exposure report



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

Product Name Qualcomm WiFi 7/BT Combo module
Brand Name Qualcomm
Model No. QCNCM825
Applicant ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID MSQ-QCNCM825
Date of EUT Receipt Mar. 26, 2024
Date of Test(s) Apr. 15, 2024 ~ Apr. 21, 2024
Date of Issue Apr. 26, 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.

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Signed on behalf of SGS

| Clerk / Kimmy Chiou | PM / Kiki Lin | Approved By / John Yeh |
|---------------------|---------------|------------------------|
| | | |

Date: Apr. 26, 2024

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|------------------------------|---------------|-------------|--------|
| TESA2403000149ES | 00 | Initial creation of document | Apr. 26, 2024 | Kimmy Chiou | |
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Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

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

IEC TR 63170:2018

IEC 62479:2010

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1.2 Description of EUT

| | | |
|--|--|--|
| Product Name: | Qualcomm WiFi 7/BT Combo module | |
| Brand Name: | Qualcomm | |
| Model No.: | QCNCM825 | |
| FCC ID | MSQ-QCNCM825 | |
| Host Information | Product Type: Notebook PC Brand Name: ASUS Model Name: S5507Q, S5507QA, S5507QAD, K5507Q, V5507Q, P5507CQ All models are electrically identical, different model names are for marketing purpose. | |
| 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) |
| | | |

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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 | 0.65 | N/A | N/A |
| 5.2G WLAN | 0.76 | N/A | N/A |
| 5.3G WLAN | 0.8 | N/A | N/A |
| 5.6G WLAN | 0.79 | N/A | N/A |
| 5.8G WLAN | 0.78 | N/A | N/A |
| 5.9G WLAN | 0.73 | N/A | N/A |
| 6G WLAN | 0.97 | 6.76 | 9.88 |

1.4 Antenna Information

| | | | | | | | | | | |
|----------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Vendor | Luxshare-ICT | | | | | | | | | |
| Antenna | Main | | | | | | | | | |
| Part Number | LA9RF566-CS-H | | | | | | | | | |
| Frequency(MHz) | 2400~2500 | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 | 5850~5895 | 5925~6425 | 6425~6525 | 6525~6875 | 6875~7125 |
| Gain (dBi) | -0.76 | 2.95 | 2.98 | 3.79 | 3.88 | 3.37 | 4.01 | 3.30 | 2.83 | 2.11 |
| Antenna | Aux | | | | | | | | | |
| Part Number | LA9RF567-CS-H | | | | | | | | | |
| Frequency(MHz) | 2400~2500 | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 | 5850~5895 | 5925~6425 | 6425~6525 | 6525~6875 | 6875~7125 |
| Gain (dBi) | -1.49 | 1.29 | 1.29 | 2.01 | 2.07 | 2.52 | 2.28 | 0.95 | 2.74 | 4.01 |

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan. | SAR 2 | TW0029 | TW3702 |
| | | SAR 6 | | |
| | | 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.

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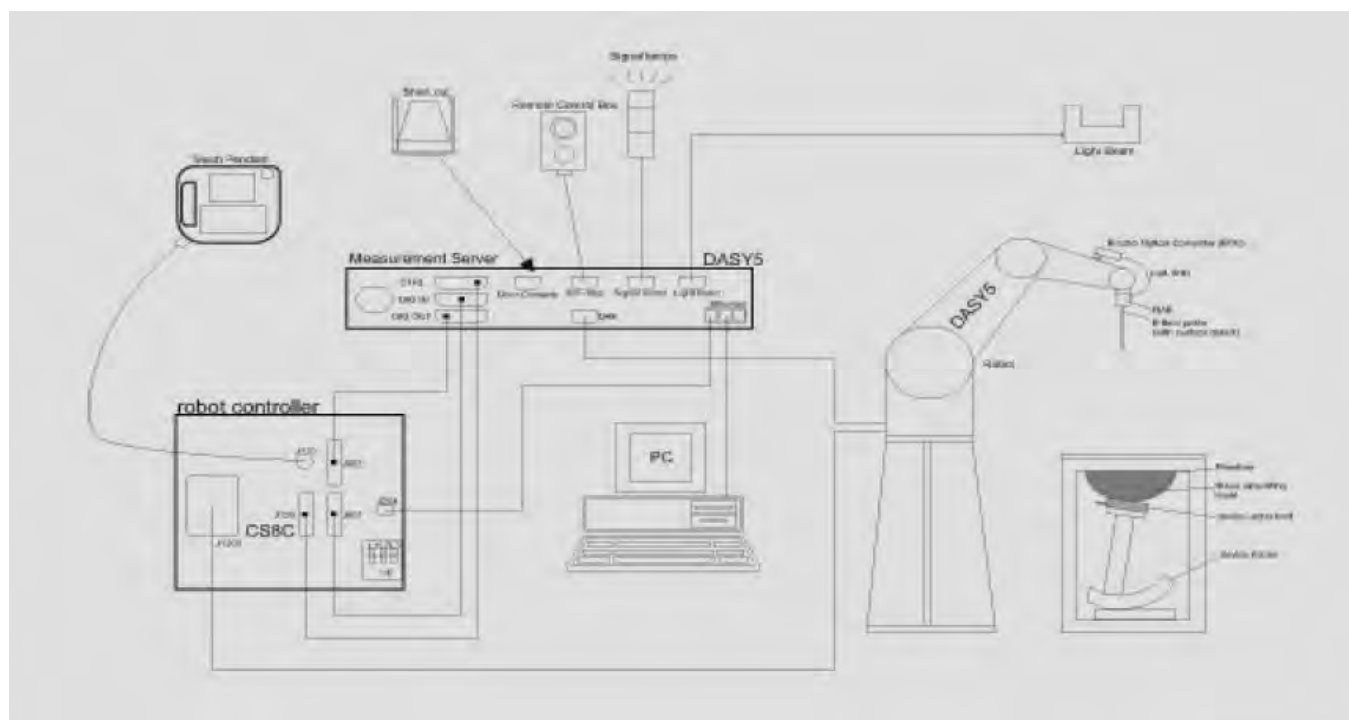
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2.2 SAR System

Block Diagram (DASY5)

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



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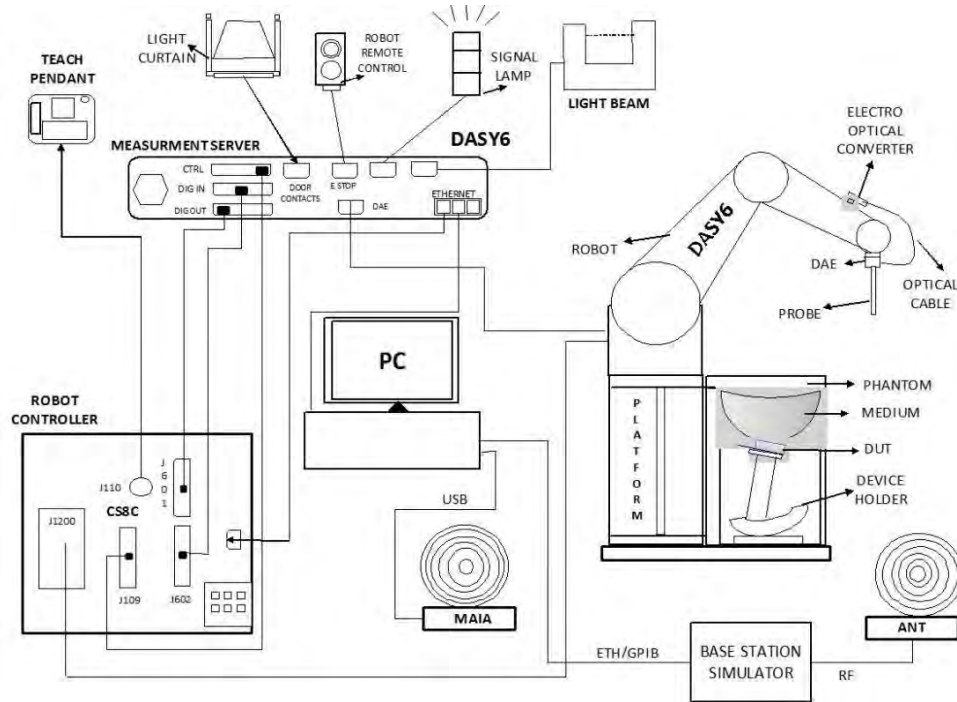
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Block Diagram (DASY6)

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




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

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EX3DV4 E-Field Probe

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

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PHANTOM (ELI)

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

DEVICE HOLDER

| | | |
|--------------|---|--|
| 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 various kind of notebooks. |  |
| | | Device Holder |

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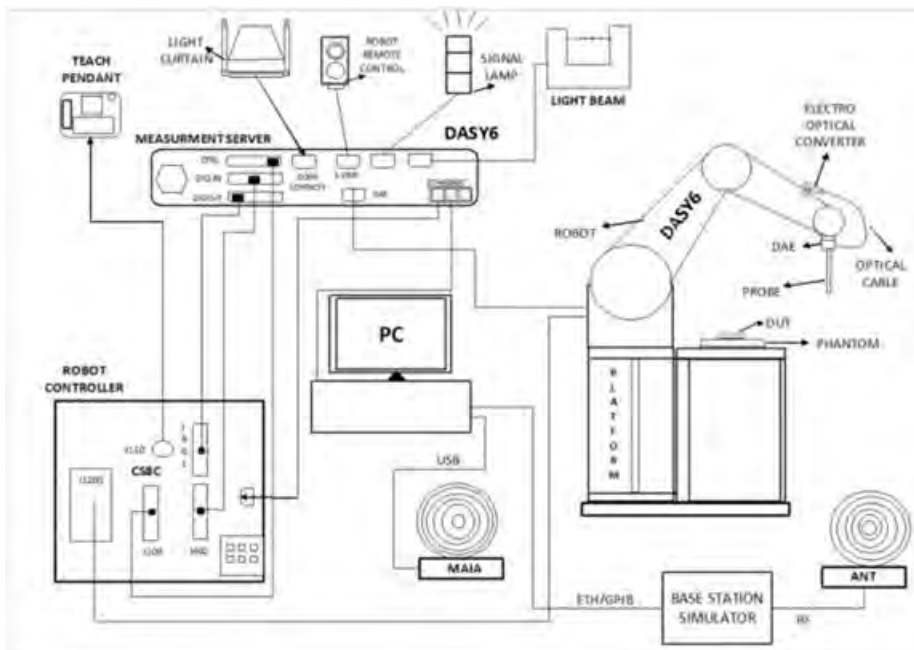
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2.3 PD system

Block Diagram (DASY6)

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



EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consist of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

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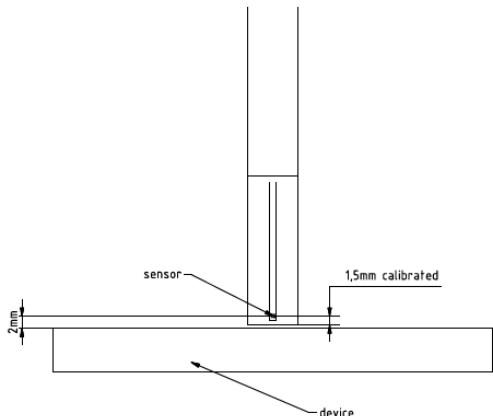
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| | |
|---|---|
|  | <p>Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/point, 120° rotated around probe axis.</p> <p>Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.</p> |
| 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 | <p>Overall length: 337 mm (tip: 20 mm)</p> <p>Tip diameter: encapsulation 8 mm (internal sensor < 1mm)</p> <p>Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm</p> |
| <p>Applications</p>  | <p>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)</p> |
| Compatibility | cDASY6 + 5G-Module SW1.0 and higher |

mmWave Phantom

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

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAK-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

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3.3 Measurement results of Tissue Simulant Liquid

| Measured Frequency (MHz) | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ | Limit | Measurement Date |
|--------------------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|-----------|------------------|
| 2402 | 39.282 | 1.757 | 40.133 | 1.713 | 2.17% | -2.50% | $\pm 5\%$ | Apr. 16, 2024 |
| 2412 | 39.265 | 1.766 | 40.118 | 1.731 | 2.17% | -1.98% | $\pm 5\%$ | |
| 2417 | 39.257 | 1.771 | 40.105 | 1.743 | 2.16% | -1.58% | $\pm 5\%$ | |
| 2437 | 39.222 | 1.788 | 40.087 | 1.755 | 2.21% | -1.85% | $\pm 5\%$ | |
| 2441 | 39.215 | 1.792 | 40.021 | 1.770 | 2.06% | -1.23% | $\pm 5\%$ | |
| 2450 | 39.200 | 1.800 | 40.017 | 1.789 | 2.08% | -0.61% | $\pm 5\%$ | |
| 2457 | 39.191 | 1.807 | 39.939 | 1.810 | 1.91% | 0.17% | $\pm 5\%$ | |
| 2462 | 39.184 | 1.813 | 39.865 | 1.833 | 1.74% | 1.10% | $\pm 5\%$ | |
| 2480 | 39.160 | 1.832 | 39.853 | 1.856 | 1.77% | 1.31% | $\pm 5\%$ | Apr. 17, 2024 |
| 5250 | 35.950 | 4.710 | 36.847 | 4.676 | 2.50% | -0.72% | $\pm 5\%$ | |
| 5290 | 35.910 | 4.750 | 36.732 | 4.803 | 2.29% | 1.12% | $\pm 5\%$ | |
| 5530 | 35.605 | 4.997 | 36.467 | 5.027 | 2.42% | 0.60% | $\pm 5\%$ | |
| 5570 | 35.545 | 5.039 | 36.428 | 5.043 | 2.48% | 0.08% | $\pm 5\%$ | |
| 5600 | 35.500 | 5.070 | 36.395 | 5.104 | 2.52% | 0.67% | $\pm 5\%$ | |
| 5610 | 35.490 | 5.080 | 36.365 | 5.217 | 2.47% | 2.70% | $\pm 5\%$ | |
| 5690 | 35.410 | 5.160 | 36.309 | 5.261 | 2.54% | 1.96% | $\pm 5\%$ | |
| 5750 | 35.350 | 5.220 | 36.110 | 5.302 | 2.15% | 1.57% | $\pm 5\%$ | Apr. 18, 2024 |
| 5775 | 35.325 | 5.245 | 36.061 | 5.364 | 2.08% | 2.27% | $\pm 5\%$ | |
| 5815 | 35.285 | 5.286 | 35.904 | 5.382 | 1.75% | 1.82% | $\pm 5\%$ | |
| 5250 | 35.950 | 4.710 | 36.809 | 4.609 | 2.39% | -2.14% | $\pm 5\%$ | |
| 5290 | 35.910 | 4.750 | 36.612 | 4.770 | 1.95% | 0.42% | $\pm 5\%$ | |
| 5530 | 35.605 | 4.997 | 36.399 | 4.909 | 2.23% | -1.76% | $\pm 5\%$ | |
| 5570 | 35.545 | 5.039 | 36.350 | 4.924 | 2.26% | -2.28% | $\pm 5\%$ | |
| 5600 | 35.500 | 5.070 | 36.296 | 4.949 | 2.24% | -2.39% | $\pm 5\%$ | |
| 5610 | 35.490 | 5.080 | 36.284 | 5.048 | 2.24% | -0.63% | $\pm 5\%$ | Apr. 19, 2024 |
| 5690 | 35.410 | 5.160 | 36.204 | 5.153 | 2.24% | -0.14% | $\pm 5\%$ | |
| 5750 | 35.350 | 5.220 | 36.021 | 5.186 | 1.90% | -0.65% | $\pm 5\%$ | |
| 5775 | 35.325 | 5.245 | 35.929 | 5.217 | 1.71% | -0.53% | $\pm 5\%$ | |
| 5815 | 35.285 | 5.286 | 35.891 | 5.222 | 1.72% | -1.21% | $\pm 5\%$ | |
| 6105 | 34.974 | 5.604 | 35.334 | 5.703 | 1.03% | 1.77% | $\pm 5\%$ | |
| 6265 | 34.782 | 5.793 | 35.158 | 5.977 | 1.08% | 3.18% | $\pm 5\%$ | |
| 6425 | 34.590 | 5.982 | 34.878 | 6.060 | 0.83% | 1.30% | $\pm 5\%$ | Apr. 20, 2024 |
| 6500 | 34.500 | 6.070 | 34.770 | 6.256 | 0.78% | 3.06% | $\pm 5\%$ | |
| 6585 | 34.398 | 6.169 | 34.681 | 6.339 | 0.82% | 2.76% | $\pm 5\%$ | |
| 6745 | 34.206 | 6.354 | 34.598 | 6.436 | 1.15% | 1.29% | $\pm 5\%$ | |
| 6905 | 34.014 | 6.540 | 34.401 | 6.652 | 1.14% | 1.71% | $\pm 5\%$ | |
| 6985 | 33.918 | 6.633 | 34.378 | 6.732 | 1.36% | 1.49% | $\pm 5\%$ | |
| 7000 | 33.900 | 6.650 | 34.342 | 6.792 | 1.30% | 2.14% | $\pm 5\%$ | |
| 6105 | 34.974 | 5.604 | 35.167 | 5.528 | 0.55% | -1.36% | $\pm 5\%$ | Apr. 20, 2024 |
| 6265 | 34.782 | 5.793 | 35.065 | 5.945 | 0.81% | 2.62% | $\pm 5\%$ | |
| 6425 | 34.590 | 5.982 | 34.851 | 6.032 | 0.75% | 0.84% | $\pm 5\%$ | |
| 6500 | 34.500 | 6.070 | 34.700 | 6.177 | 0.58% | 1.76% | $\pm 5\%$ | |
| 6585 | 34.398 | 6.169 | 34.585 | 6.247 | 0.54% | 1.26% | $\pm 5\%$ | |
| 6745 | 34.206 | 6.354 | 34.541 | 6.414 | 0.98% | 0.94% | $\pm 5\%$ | |
| 6905 | 34.014 | 6.540 | 34.371 | 6.552 | 1.05% | 0.18% | $\pm 5\%$ | |
| 6985 | 33.918 | 6.633 | 34.239 | 6.633 | 0.95% | 0.00% | $\pm 5\%$ | |
| 7000 | 33.900 | 6.650 | 34.149 | 6.651 | 0.73% | 0.02% | $\pm 5\%$ | |

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3.4 The composition of the tissue simulating liquid:

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

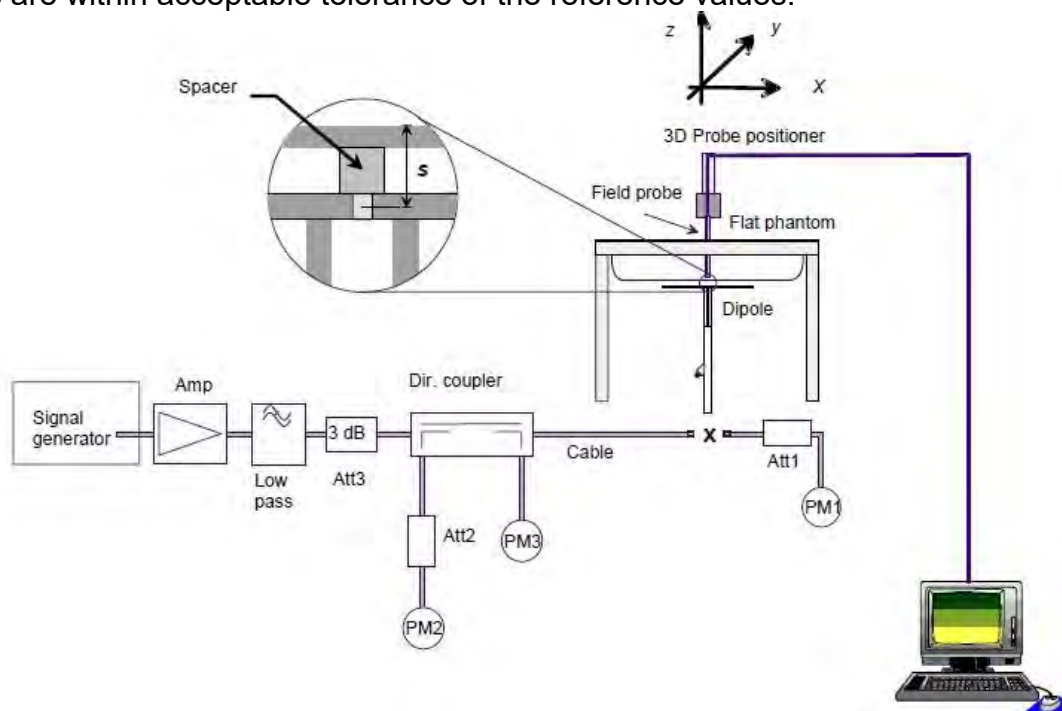
| Broad-band head tissue simulating liquids | SPEAG Product | Frequency range (MHz) | Main Ingredients |
|---|-----------------|-----------------------|------------------|
| | HBBL600-10000V6 | 600 - 10000 | Water, Oil |

3.5 System check

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

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

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



The block diagram of system check

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3.6 System check results

| Validation Kit | S/N | Frequency (MHz) | 1W Target 1g-SAR (W/kg) | pin=250mW Measured 1g-SAR (W/kg) | Normalized to 1W 1g-SAR (W/kg) | Deviation (%) | Limit | Measurement Date |
|----------------|------|-----------------|-------------------------|----------------------------------|--------------------------------|---------------|-------|------------------|
| D2450V2 | 728 | 2450 | 53.4 | 12.9 | 51.6 | -3.37 | ± 10% | Apr.16,2024 |
| 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 | 7.71 | 77.1 | -2.16 | ± 10% | Apr.17,2024 |
| D5GHzV2 | 1023 | 5250 | 78.8 | 7.81 | 78.1 | -0.89 | ± 10% | Apr.18,2024 |
| D5GHzV2 | 1023 | 5600 | 81.3 | 8.71 | 87.1 | 7.13 | ± 10% | Apr.17,2024 |
| D5GHzV2 | 1023 | 5600 | 81.3 | 8.49 | 84.9 | 4.43 | ± 10% | Apr.18,2024 |
| D5GHzV2 | 1023 | 5750 | 78 | 7.78 | 77.8 | -0.26 | ± 10% | Apr.17,2024 |
| D5GHzV2 | 1023 | 5750 | 78 | 8.1 | 81 | 3.85 | ± 10% | Apr.18,2024 |
| Validation Kit | S/N | Frequency (MHz) | 1W Target 1g-SAR (W/kg) | pin=100mW Measured 1g-SAR (W/kg) | Normalized to 1W 1g-SAR (W/kg) | Deviation (%) | Limit | Measurement Date |
| D6.5GHzV2 | 1006 | 6500 | 296 | 29.1 | 291 | -1.69 | ± 10% | Apr.19,2024 |
| D6.5GHzV2 | 1006 | 6500 | 296 | 29.9 | 299 | 1.01 | ± 10% | Apr.20,2024 |
| D7GHzV2 | 1007 | 7000 | 281 | 26.8 | 268 | -4.63 | ± 10% | Apr.19,2024 |
| D7GHzV2 | 1007 | 7000 | 281 | 27.1 | 271 | -3.56 | ± 10% | Apr.20,2024 |

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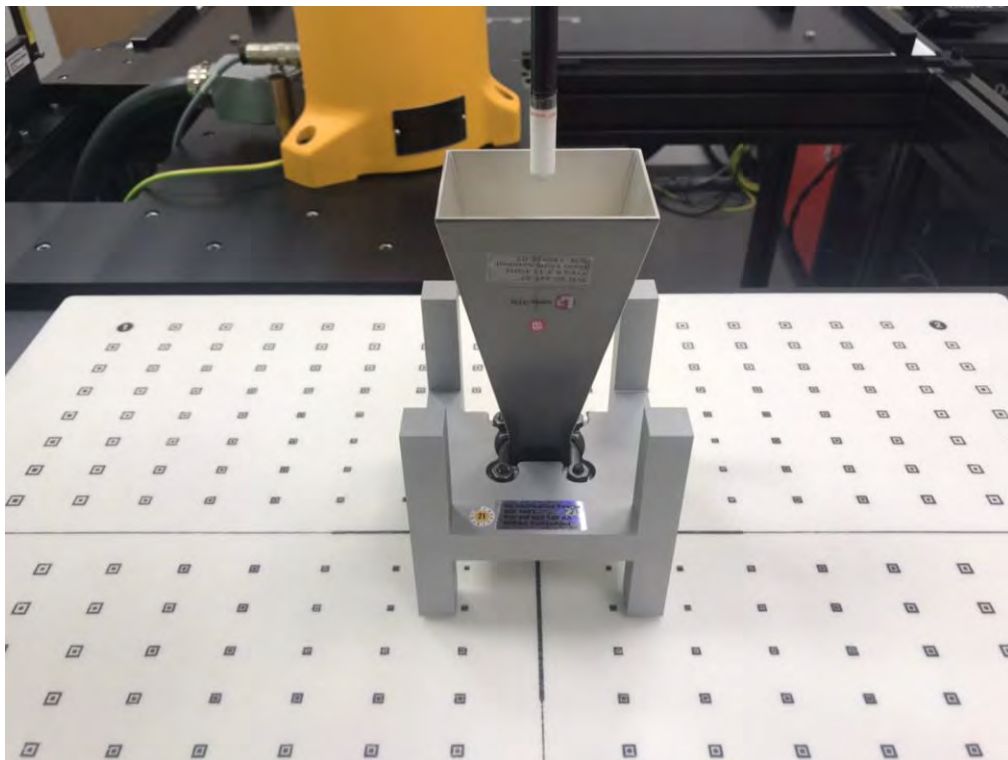
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4 PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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4.2 System check result

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

| Frequency (MHz) | PD Verification Source (MHz) | Probe S/N | DAE S/N | Distance (mm) | Prad (mW) | Measured 4cm ² (W/m ²) | Target 4cm ² (W/m ²) | Deviation (dB) | Date |
|-----------------|------------------------------|-----------|---------|---------------|-----------|---|---|----------------|-------------|
| 10000 | 10000 | 9399 | 1719 | 10 | 93.3 | 51.8 | 56.4 | -0.37 | Apr.21,2024 |

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

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

5.2 Test Note

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

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

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

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

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

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

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

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5.3 Test position

Laptop mode SAR test position (0mm)

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

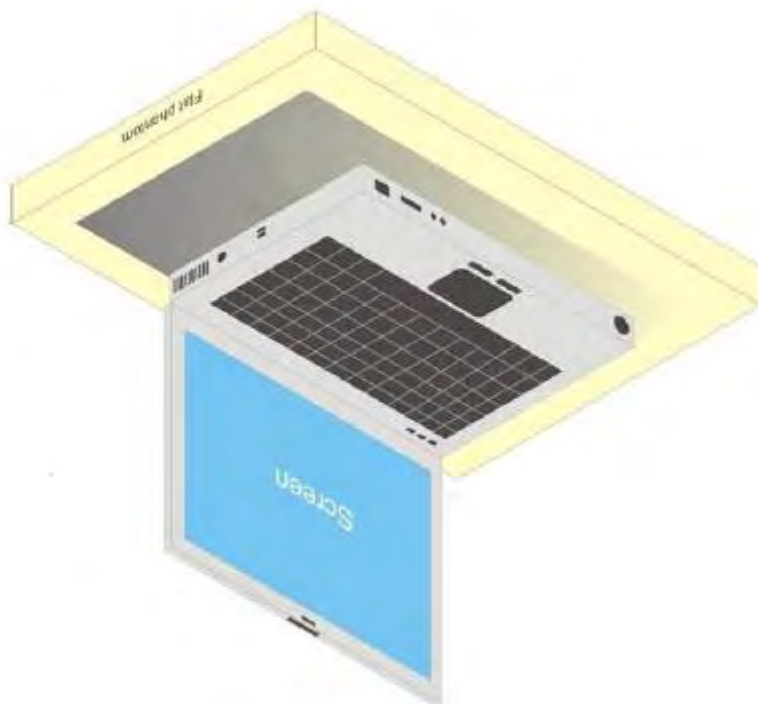


Illustration for Laptop Setup

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5.4 Test limit

§ 2.1093(d)(1)

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

Radiofrequency radiation exposure limits.

§ 1.1310(a)

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

§ 1.1310(b)

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

§ 1.1310(c)

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

Note to paragraphs (a) through (c):

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

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

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

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

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

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

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

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

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6 MAXIMUM OUTPUT POWER

6.1 WLAN

DS10_SISO

| 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 | 15.00 | 14.51 |
| | | 6 | 2437 | | 15.00 | 14.93 |
| | | 11 | 2462 | | 15.00 | 14.91 |
| | | 12 | 2467 | | 15.00 | 14.25 |
| | | 13 | 2472 | | 15.00 | 14.31 |
| | 802.11g | 1 | 2412 | 6Mbps | 15.00 | 14.40 |
| | | 6 | 2437 | | 15.00 | 14.36 |
| | | 11 | 2462 | | 15.00 | 14.44 |
| | | 12 | 2467 | | 15.00 | 14.27 |
| | | 13 | 2472 | | 13.75 | 13.05 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 15.00 | 14.39 |
| | | 6 | 2437 | | 15.00 | 14.42 |
| | | 11 | 2462 | | 15.00 | 14.32 |
| | | 12 | 2467 | | 14.50 | 13.93 |
| | | 13 | 2472 | | 10.50 | 9.78 |
| | 802.11ac20-VHT0 | 1 | 2412 | MCS0 | 15.00 | 14.40 |
| | | 6 | 2437 | | 15.00 | 14.34 |
| | | 11 | 2462 | | 15.00 | 14.35 |
| | | 12 | 2467 | | 14.50 | 13.77 |
| | | 13 | 2472 | | 10.50 | 9.94 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 15.00 | 14.27 |
| | | 6 | 2437 | | 15.00 | 14.43 |
| | | 11 | 2462 | | 15.00 | 14.40 |
| | | 12 | 2467 | | 14.50 | 13.88 |
| | | 13 | 2472 | | 10.50 | 9.79 |
| | 802.11be20-EHT0 | 1 | 2412 | MCS0 | 15.00 | 14.29 |
| | | 6 | 2437 | | 15.00 | 14.41 |
| | | 11 | 2462 | | 15.00 | 14.36 |
| | | 12 | 2467 | | 14.50 | 13.89 |
| | | 13 | 2472 | | 10.50 | 9.93 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 15.00 | 14.31 |
| | | 6 | 2437 | | 15.00 | 14.29 |
| | | 9 | 2452 | | 15.00 | 14.25 |
| | | 10 | 2457 | | 13.25 | 12.66 |
| | | 11 | 2462 | | 8.00 | 7.36 |
| | 802.11ac40-VHT0 | 3 | 2422 | MCS0 | 15.00 | 14.38 |
| | | 6 | 2437 | | 15.00 | 14.34 |
| | | 9 | 2452 | | 15.00 | 14.45 |
| | | 10 | 2457 | | 13.25 | 12.54 |
| | | 11 | 2462 | | 8.00 | 7.36 |
| | 802.11ax40-HE0 | 3 | 2422 | MCS0 | 15.00 | 14.37 |
| | | 6 | 2437 | | 15.00 | 14.31 |
| | | 9 | 2452 | | 15.00 | 14.44 |
| | | 10 | 2457 | | 13.25 | 12.53 |
| | | 11 | 2462 | | 8.00 | 7.33 |
| | 802.11be40-EHT0 | 3 | 2422 | MCS0 | 15.00 | 14.28 |
| | | 6 | 2437 | | 15.00 | 14.40 |
| | | 9 | 2452 | | 15.00 | 14.39 |
| | | 10 | 2457 | | 13.25 | 12.59 |
| | | 11 | 2462 | | 8.00 | 7.29 |

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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 | 15.00 | 14.76 |
| | | 6 | 2437 | | 15.00 | 14.91 |
| | | 11 | 2462 | | 15.00 | 14.85 |
| | | 12 | 2467 | | 15.00 | 14.70 |
| | | 13 | 2472 | | 15.00 | 14.71 |
| | 802.11g | 1 | 2412 | 6Mbps | 15.00 | 14.60 |
| | | 6 | 2437 | | 15.00 | 14.63 |
| | | 11 | 2462 | | 15.00 | 14.65 |
| | | 12 | 2467 | | 15.00 | 14.67 |
| | | 13 | 2472 | | 13.75 | 13.31 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 15.00 | 14.58 |
| | | 6 | 2437 | | 15.00 | 14.53 |
| | | 11 | 2462 | | 15.00 | 14.63 |
| | | 12 | 2467 | | 14.50 | 14.11 |
| | | 13 | 2472 | | 10.50 | 10.16 |
| | 802.11ac20-VHT0 | 1 | 2412 | MCS0 | 15.00 | 14.60 |
| | | 6 | 2437 | | 15.00 | 14.57 |
| | | 11 | 2462 | | 15.00 | 14.50 |
| | | 12 | 2467 | | 14.50 | 14.16 |
| | | 13 | 2472 | | 10.50 | 10.10 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 15.00 | 14.68 |
| | | 6 | 2437 | | 15.00 | 14.64 |
| | | 11 | 2462 | | 15.00 | 14.66 |
| | | 12 | 2467 | | 14.50 | 14.11 |
| | | 13 | 2472 | | 10.50 | 10.11 |
| | 802.11be20-EHT0 | 1 | 2412 | MCS0 | 15.00 | 14.66 |
| | | 6 | 2437 | | 15.00 | 14.61 |
| | | 11 | 2462 | | 15.00 | 14.52 |
| | | 12 | 2467 | | 14.50 | 14.11 |
| | | 13 | 2472 | | 10.50 | 10.06 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 15.00 | 14.64 |
| | | 6 | 2437 | | 15.00 | 14.68 |
| | | 9 | 2452 | | 15.00 | 14.55 |
| | | 10 | 2457 | | 13.25 | 12.85 |
| | | 11 | 2462 | | 8.00 | 7.66 |
| | 802.11ac40-VHT0 | 3 | 2422 | MCS0 | 15.00 | 14.50 |
| | | 6 | 2437 | | 15.00 | 14.53 |
| | | 9 | 2452 | | 15.00 | 14.51 |
| | | 10 | 2457 | | 13.25 | 12.88 |
| | | 11 | 2462 | | 8.00 | 7.65 |
| | 802.11ax40-HE0 | 3 | 2422 | MCS0 | 15.00 | 14.68 |
| | | 6 | 2437 | | 15.00 | 14.52 |
| | | 9 | 2452 | | 15.00 | 14.60 |
| | | 10 | 2457 | | 13.25 | 12.87 |
| | | 11 | 2462 | | 8.00 | 7.64 |
| | 802.11be40-EHT0 | 3 | 2422 | MCS0 | 15.00 | 14.63 |
| | | 6 | 2437 | | 15.00 | 14.50 |
| | | 9 | 2452 | | 15.00 | 14.49 |
| | | 10 | 2457 | | 13.25 | 12.80 |
| | | 11 | 2462 | | 8.00 | 7.60 |

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DSI0_MIMO

| 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 | 15.00 | 14.75 |
| | | 6 | 2437 | | 15.00 | 14.85 |
| | | 11 | 2462 | | 15.00 | 14.81 |
| | | 12 | 2467 | | 12.75 | 12.26 |
| | | 13 | 2472 | | 12.75 | 12.40 |
| | 802.11g | 1 | 2412 | 6Mbps | 15.00 | 14.61 |
| | | 6 | 2437 | | 15.00 | 14.51 |
| | | 11 | 2462 | | 15.00 | 14.60 |
| | | 12 | 2467 | | 14.50 | 14.14 |
| | | 13 | 2472 | | 10.75 | 10.35 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 15.00 | 14.58 |
| | | 6 | 2437 | | 15.00 | 14.67 |
| | | 11 | 2462 | | 15.00 | 14.62 |
| | | 12 | 2467 | | 14.50 | 14.06 |
| | | 13 | 2472 | | 10.50 | 10.04 |
| | 802.11ac20-VHT0 | 1 | 2412 | MCS0 | 15.00 | 14.62 |
| | | 6 | 2437 | | 15.00 | 14.64 |
| | | 11 | 2462 | | 15.00 | 14.59 |
| | | 12 | 2467 | | 14.50 | 14.07 |
| | | 13 | 2472 | | 10.50 | 10.12 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 15.00 | 14.69 |
| | | 6 | 2437 | | 15.00 | 14.54 |
| | | 11 | 2462 | | 15.00 | 14.52 |
| | | 12 | 2467 | | 14.50 | 14.17 |
| | | 13 | 2472 | | 10.50 | 10.19 |
| | 802.11be20-EHT0 | 1 | 2412 | MCS0 | 15.00 | 14.66 |
| | | 6 | 2437 | | 15.00 | 14.60 |
| | | 11 | 2462 | | 15.00 | 14.56 |
| | | 12 | 2467 | | 14.50 | 14.06 |
| | | 13 | 2472 | | 10.50 | 10.07 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 15.00 | 14.60 |
| | | 6 | 2437 | | 15.00 | 14.65 |
| | | 9 | 2452 | | 15.00 | 14.52 |
| | | 10 | 2457 | | 13.25 | 12.75 |
| | | 11 | 2462 | | 8.00 | 7.56 |
| | 802.11ac40-VHT0 | 3 | 2422 | MCS0 | 15.00 | 14.52 |
| | | 6 | 2437 | | 15.00 | 14.53 |
| | | 9 | 2452 | | 15.00 | 14.61 |
| | | 10 | 2457 | | 13.25 | 12.85 |
| | | 11 | 2462 | | 8.00 | 7.52 |
| | 802.11ax40-HE0 | 3 | 2422 | MCS0 | 15.00 | 14.56 |
| | | 6 | 2437 | | 15.00 | 14.62 |
| | | 9 | 2452 | | 15.00 | 14.60 |
| | | 10 | 2457 | | 13.25 | 12.89 |
| | | 11 | 2462 | | 8.00 | 7.68 |
| | 802.11be40-EHT0 | 3 | 2422 | MCS0 | 15.00 | 14.64 |
| | | 6 | 2437 | | 15.00 | 14.49 |
| | | 9 | 2452 | | 15.00 | 14.57 |
| | | 10 | 2457 | | 13.25 | 12.78 |
| | | 11 | 2462 | | 8.00 | 7.69 |

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| 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 | 10.75 | 9.20 |
| | | 40 | 5200 | | 10.75 | 9.23 |
| | | 44 | 5220 | | 10.75 | 9.17 |
| | | 48 | 5240 | | 10.75 | 9.33 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 10.75 | 9.19 |
| | | 40 | 5200 | | 10.75 | 9.27 |
| | | 44 | 5220 | | 10.75 | 9.30 |
| | | 48 | 5240 | | 10.75 | 9.16 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 10.75 | 9.30 |
| | | 40 | 5200 | | 10.75 | 9.33 |
| | | 44 | 5220 | | 10.75 | 9.27 |
| | | 48 | 5240 | | 10.75 | 9.25 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 10.75 | 9.32 |
| | | 40 | 5200 | | 10.75 | 9.16 |
| | | 44 | 5220 | | 10.75 | 9.18 |
| | | 48 | 5240 | | 10.75 | 9.27 |
| | 802.11be20-EHT0 | 36 | 5180 | MCS0 | 10.75 | 9.24 |
| | | 40 | 5200 | | 10.75 | 9.31 |
| | | 44 | 5220 | | 10.75 | 9.33 |
| | | 48 | 5240 | | 10.75 | 9.18 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 10.75 | 9.31 |
| | | 46 | 5230 | | 10.75 | 9.29 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 10.75 | 9.25 |
| | | 46 | 5230 | | 10.75 | 9.19 |
| | 802.11ax40-HE0 | 38 | 5190 | MCS0 | 10.75 | 9.29 |
| | | 46 | 5230 | | 10.75 | 9.34 |
| | 802.11be40-EHT0 | 38 | 5190 | MCS0 | 10.75 | 9.35 |
| | | 46 | 5230 | | 10.75 | 9.27 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 10.75 | 9.15 |
| | 802.11ax80-HE0 | 42 | 5210 | MCS0 | 10.75 | 9.27 |
| | 802.11be80-EHT0 | 42 | 5210 | MCS0 | 10.75 | 9.25 |
| | 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.75 | 9.43 |
| | 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.75 | 9.16 |
| | 802.11be160-EHT0 | 50 | 5250 | MCS0 | 10.75 | 9.21 |

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| Aux | | | | | | |
|---------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 10.75 | 9.35 |
| | | 56 | 5280 | | 10.75 | 9.31 |
| | | 60 | 5300 | | 10.75 | 9.16 |
| | | 64 | 5320 | | 10.75 | 9.28 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 10.75 | 9.30 |
| | | 56 | 5280 | | 10.75 | 9.23 |
| | | 60 | 5300 | | 10.75 | 9.15 |
| | | 64 | 5320 | | 10.75 | 9.19 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 10.75 | 9.29 |
| | | 56 | 5280 | | 10.75 | 9.34 |
| | | 60 | 5300 | | 10.75 | 9.18 |
| | | 64 | 5320 | | 10.75 | 9.25 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 10.75 | 9.31 |
| | | 56 | 5280 | | 10.75 | 9.15 |
| | | 60 | 5300 | | 10.75 | 9.22 |
| | | 64 | 5320 | | 10.75 | 9.33 |
| | 802.11be20-EHT0 | 52 | 5260 | MCS0 | 10.75 | 9.25 |
| | | 56 | 5280 | | 10.75 | 9.23 |
| | | 60 | 5300 | | 10.75 | 9.15 |
| | | 64 | 5320 | | 10.75 | 9.27 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 10.75 | 9.15 |
| | | 62 | 5310 | | 10.75 | 9.21 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 10.75 | 9.24 |
| | | 62 | 5310 | | 10.75 | 9.34 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 10.75 | 9.27 |
| | | 62 | 5310 | | 10.75 | 9.16 |
| | 802.11be40-EHT0 | 54 | 5270 | MCS0 | 10.75 | 9.20 |
| | | 62 | 5310 | | 10.75 | 9.22 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 10.75 | 9.41 |
| | 802.11ax80-HE0 | 58 | 5290 | MCS0 | 10.75 | 9.18 |
| | 802.11be80-EHT0 | 58 | 5290 | MCS0 | 10.75 | 9.28 |

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| Aux | | | | | | |
|--------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.6GHz | 802.11a | 100 | 5500 | 6Mbps | 11.00 | 9.29 |
| | | 116 | 5580 | | 11.00 | 9.33 |
| | | 140 | 5700 | | 11.00 | 9.30 |
| | | 144 | 5720 | | 11.00 | 9.37 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 11.00 | 9.22 |
| | | 116 | 5580 | | 11.00 | 9.29 |
| | | 140 | 5700 | | 11.00 | 9.40 |
| | | 144 | 5720 | | 11.00 | 9.19 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 11.00 | 9.22 |
| | | 116 | 5580 | | 11.00 | 9.27 |
| | | 140 | 5700 | | 11.00 | 9.26 |
| | | 144 | 5720 | | 11.00 | 9.21 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 11.00 | 9.11 |
| | | 116 | 5580 | | 11.00 | 9.27 |
| | | 140 | 5700 | | 11.00 | 9.13 |
| | | 144 | 5720 | | 11.00 | 9.17 |
| | 802.11be20-EHT0 | 100 | 5500 | MCS0 | 11.00 | 9.15 |
| | | 116 | 5580 | | 11.00 | 9.16 |
| | | 140 | 5700 | | 11.00 | 9.18 |
| | | 144 | 5720 | | 11.00 | 9.31 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 11.00 | 9.17 |
| | | 110 | 5550 | | 11.00 | 9.27 |
| | | 134 | 5670 | | 11.00 | 9.39 |
| | | 142 | 5710 | | 11.00 | 9.16 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 11.00 | 9.25 |
| | | 110 | 5550 | | 11.00 | 9.29 |
| | | 134 | 5670 | | 11.00 | 9.23 |
| | | 142 | 5710 | | 11.00 | 9.30 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 11.00 | 9.29 |
| | | 110 | 5550 | | 11.00 | 9.28 |
| | | 134 | 5670 | | 11.00 | 9.18 |
| | | 142 | 5710 | | 11.00 | 9.20 |
| | 802.11be40-EHT0 | 102 | 5510 | MCS0 | 11.00 | 9.39 |
| | | 110 | 5550 | | 11.00 | 9.11 |
| | | 134 | 5670 | | 11.00 | 9.37 |
| | | 142 | 5710 | | 11.00 | 9.23 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 11.00 | 9.45 |
| | | 122 | 5610 | | 11.00 | 9.39 |
| | | 138 | 5690 | | 11.00 | 9.59 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 11.00 | 9.25 |
| | | 122 | 5610 | | 11.00 | 9.21 |
| | | 138 | 5690 | | 11.00 | 9.11 |
| | 802.11be80-EHT0 | 106 | 5530 | MCS0 | 11.00 | 9.14 |
| | | 122 | 5610 | | 11.00 | 9.13 |
| | | 138 | 5690 | | 11.00 | 9.32 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 11.00 | 9.40 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 11.00 | 9.36 |
| | 802.11be160-EHT0 | 114 | 5570 | MCS0 | 11.00 | 9.34 |

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|--------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.8GHz | 802.11a | 149 | 5745 | 6Mbps | 10.25 | 8.52 |
| | | 157 | 5785 | | 10.25 | 8.41 |
| | | 165 | 5825 | | 10.25 | 8.40 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 10.25 | 8.35 |
| | | 157 | 5785 | | 10.25 | 8.49 |
| | | 165 | 5825 | | 10.25 | 8.50 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 10.25 | 8.43 |
| | | 157 | 5785 | | 10.25 | 8.33 |
| | | 165 | 5825 | | 10.25 | 8.57 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 10.25 | 8.38 |
| | | 157 | 5785 | | 10.25 | 8.55 |
| | | 165 | 5825 | | 10.25 | 8.46 |
| | 802.11be20-EHT0 | 149 | 5745 | MCS0 | 10.25 | 8.35 |
| | | 157 | 5785 | | 10.25 | 8.51 |
| | | 165 | 5825 | | 10.25 | 8.36 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 10.25 | 8.55 |
| | | 159 | 5795 | | 10.25 | 8.57 |
| | | 151 | 5755 | MCS0 | 10.25 | 8.49 |
| | 802.11ac40-VHT0 | 159 | 5795 | | 10.25 | 8.42 |
| | | 151 | 5755 | MCS0 | 10.25 | 8.35 |
| | | 159 | 5795 | | 10.25 | 8.39 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 10.25 | 8.54 |
| | | 159 | 5795 | | 10.25 | 8.50 |
| | | 151 | 5755 | MCS0 | 10.25 | 8.62 |
| | 802.11ac80-VHT0 | 155 | 5775 | | 10.25 | 8.31 |
| | | 155 | 5775 | | 10.25 | 8.31 |
| | | 155 | 5775 | | 10.25 | 8.53 |

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|--------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.9GHz | 802.11a | 169 | 5845 | 6Mbps | 11.00 | 9.04 |
| | | 173 | 5865 | | 11.00 | 9.01 |
| | | 177 | 5885 | | 11.00 | 9.03 |
| | 802.11n20-HT0 | 169 | 5845 | MCS0 | 11.00 | 9.09 |
| | | 173 | 5865 | | 11.00 | 9.13 |
| | | 177 | 5885 | | 11.00 | 9.08 |
| | 802.11ac20-VHT0 | 169 | 5845 | MCS0 | 11.00 | 9.12 |
| | | 173 | 5865 | | 11.00 | 9.04 |
| | | 177 | 5885 | | 11.00 | 9.07 |
| | 802.11ax20-HE0 | 169 | 5845 | MCS0 | 11.00 | 9.03 |
| | | 173 | 5865 | | 11.00 | 9.12 |
| | | 177 | 5885 | | 11.00 | 9.07 |
| | 802.11be20-EHT0 | 169 | 5845 | MCS0 | 11.00 | 9.13 |
| | | 173 | 5865 | | 11.00 | 9.11 |
| | | 177 | 5885 | | 11.00 | 9.14 |
| | 802.11n40-HT0 | 167 | 5835 | MCS0 | 11.00 | 9.02 |
| | | 175 | 5875 | | 11.00 | 9.09 |
| | | 167 | 5835 | MCS0 | 11.00 | 9.11 |
| | 802.11ac40-VHT0 | 175 | 5875 | | 11.00 | 9.03 |
| | | 167 | 5835 | MCS0 | 11.00 | 9.05 |
| | | 175 | 5875 | | 11.00 | 9.14 |
| | 802.11ax40-HE0 | 167 | 5835 | MCS0 | 11.00 | 9.08 |
| | | 175 | 5875 | | 11.00 | 9.10 |
| | | 167 | 5835 | MCS0 | 11.00 | 9.05 |
| | 802.11be40-EHT0 | 175 | 5875 | | 11.00 | 9.02 |
| | | 171 | 5855 | | 11.00 | 9.07 |
| | | 171 | 5855 | MCS0 | 11.00 | 9.15 |
| | 802.11ac80-VHT0 | 163 | 5815 | | 11.00 | 9.11 |
| | | 163 | 5815 | | 11.00 | 9.06 |
| | | 163 | 5815 | | 11.00 | 9.06 |

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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 | 15.00 | 14.49 |
| | | 6 | 2437 | | 15.00 | 14.87 |
| | | 11 | 2462 | | 15.00 | 14.83 |
| | | 12 | 2467 | | 12.75 | 11.99 |
| | | 13 | 2472 | | 12.75 | 12.16 |
| | 802.11g | 1 | 2412 | 6Mbps | 15.00 | 14.41 |
| | | 6 | 2437 | | 15.00 | 14.28 |
| | | 11 | 2462 | | 15.00 | 14.38 |
| | | 12 | 2467 | | 14.50 | 13.79 |
| | | 13 | 2472 | | 10.75 | 10.13 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 15.00 | 14.36 |
| | | 6 | 2437 | | 15.00 | 14.30 |
| | | 11 | 2462 | | 15.00 | 14.38 |
| | | 12 | 2467 | | 14.50 | 13.90 |
| | | 13 | 2472 | | 10.50 | 9.92 |
| | 802.11ac20-VHT0 | 1 | 2412 | MCS0 | 15.00 | 14.41 |
| | | 6 | 2437 | | 15.00 | 14.31 |
| | | 11 | 2462 | | 15.00 | 14.27 |
| | | 12 | 2467 | | 14.50 | 13.86 |
| | | 13 | 2472 | | 10.50 | 9.92 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 15.00 | 14.43 |
| | | 6 | 2437 | | 15.00 | 14.35 |
| | | 11 | 2462 | | 15.00 | 14.39 |
| | | 12 | 2467 | | 14.50 | 13.86 |
| | | 13 | 2472 | | 10.50 | 9.74 |
| | 802.11be20-EHT0 | 1 | 2412 | MCS0 | 15.00 | 14.43 |
| | | 6 | 2437 | | 15.00 | 14.30 |
| | | 11 | 2462 | | 15.00 | 14.40 |
| | | 12 | 2467 | | 14.50 | 13.76 |
| | | 13 | 2472 | | 10.50 | 9.80 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 15.00 | 14.37 |
| | | 6 | 2437 | | 15.00 | 14.26 |
| | | 9 | 2452 | | 15.00 | 14.28 |
| | | 10 | 2457 | | 13.25 | 12.66 |
| | | 11 | 2462 | | 8.00 | 7.38 |
| | 802.11ac40-VHT0 | 3 | 2422 | MCS0 | 15.00 | 14.43 |
| | | 6 | 2437 | | 15.00 | 14.40 |
| | | 9 | 2452 | | 15.00 | 14.34 |
| | | 10 | 2457 | | 13.25 | 12.51 |
| | | 11 | 2462 | | 8.00 | 7.31 |
| | 802.11ax40-HE0 | 3 | 2422 | MCS0 | 15.00 | 14.30 |
| | | 6 | 2437 | | 15.00 | 14.40 |
| | | 9 | 2452 | | 15.00 | 14.37 |
| | | 10 | 2457 | | 13.25 | 12.59 |
| | | 11 | 2462 | | 8.00 | 7.39 |
| | 802.11be40-EHT0 | 3 | 2422 | MCS0 | 15.00 | 14.43 |
| | | 6 | 2437 | | 15.00 | 14.30 |
| | | 9 | 2452 | | 15.00 | 14.36 |
| | | 10 | 2457 | | 13.25 | 12.59 |
| | | 11 | 2462 | | 8.00 | 7.24 |

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| Main | | | | | | |
|---------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 10.75 | 10.11 |
| | | 40 | 5200 | | 10.75 | 10.19 |
| | | 44 | 5220 | | 10.75 | 10.20 |
| | | 48 | 5240 | | 10.75 | 10.27 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 10.75 | 10.16 |
| | | 40 | 5200 | | 10.75 | 10.24 |
| | | 44 | 5220 | | 10.75 | 10.13 |
| | | 48 | 5240 | | 10.75 | 10.18 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 10.75 | 10.27 |
| | | 40 | 5200 | | 10.75 | 10.15 |
| | | 44 | 5220 | | 10.75 | 10.18 |
| | | 48 | 5240 | | 10.75 | 10.21 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 10.75 | 10.19 |
| | | 40 | 5200 | | 10.75 | 10.30 |
| | | 44 | 5220 | | 10.75 | 10.25 |
| | | 48 | 5240 | | 10.75 | 10.27 |
| | 802.11be20-EHT0 | 36 | 5180 | MCS0 | 10.75 | 10.15 |
| | | 40 | 5200 | | 10.75 | 10.23 |
| | | 44 | 5220 | | 10.75 | 10.38 |
| | | 48 | 5240 | | 10.75 | 10.21 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 10.75 | 10.25 |
| | | 46 | 5230 | | 10.75 | 10.11 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 10.75 | 10.10 |
| | | 46 | 5230 | | 10.75 | 10.26 |
| | 802.11ax40-HE0 | 38 | 5190 | MCS0 | 10.75 | 10.14 |
| | | 46 | 5230 | | 10.75 | 10.23 |
| | 802.11be40-EHT0 | 38 | 5190 | MCS0 | 10.75 | 10.27 |
| | | 46 | 5230 | | 10.75 | 10.21 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 10.75 | 10.29 |
| | 802.11ax80-HE0 | 42 | 5210 | MCS0 | 10.75 | 10.12 |
| | 802.11be80-EHT0 | 42 | 5210 | MCS0 | 10.75 | 10.15 |
| | 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.75 | 10.41 |
| | 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.75 | 10.26 |
| | 802.11be160-EHT0 | 50 | 5250 | MCS0 | 10.75 | 10.15 |

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| 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 | 10.75 | 10.29 |
| | | 56 | 5280 | | 10.75 | 10.15 |
| | | 60 | 5300 | | 10.75 | 10.28 |
| | | 64 | 5320 | | 10.75 | 10.32 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 10.75 | 10.18 |
| | | 56 | 5280 | | 10.75 | 10.14 |
| | | 60 | 5300 | | 10.75 | 10.19 |
| | | 64 | 5320 | | 10.75 | 10.21 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 10.75 | 10.25 |
| | | 56 | 5280 | | 10.75 | 10.30 |
| | | 60 | 5300 | | 10.75 | 10.16 |
| | | 64 | 5320 | | 10.75 | 10.22 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 10.75 | 10.34 |
| | | 56 | 5280 | | 10.75 | 10.21 |
| | | 60 | 5300 | | 10.75 | 10.19 |
| | | 64 | 5320 | | 10.75 | 10.29 |
| | 802.11be20-EHT0 | 52 | 5260 | MCS0 | 10.75 | 10.15 |
| | | 56 | 5280 | | 10.75 | 10.25 |
| | | 60 | 5300 | | 10.75 | 10.21 |
| | | 64 | 5320 | | 10.75 | 10.16 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 10.75 | 10.14 |
| | | 62 | 5310 | | 10.75 | 10.32 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 10.75 | 10.27 |
| | | 62 | 5310 | | 10.75 | 10.25 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 10.75 | 10.23 |
| | | 62 | 5310 | | 10.75 | 10.16 |
| | 802.11be40-EHT0 | 54 | 5270 | MCS0 | 10.75 | 10.31 |
| | | 62 | 5310 | | 10.75 | 10.19 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 10.75 | 10.46 |
| | 802.11ax80-HE0 | 58 | 5290 | MCS0 | 10.75 | 10.23 |
| | 802.11be80-EHT0 | 58 | 5290 | MCS0 | 10.75 | 10.28 |

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| Main | | | | | | |
|--------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.6GHz | 802.11a | 100 | 5500 | 6Mbps | 11.00 | 10.57 |
| | | 116 | 5580 | | 11.00 | 10.61 |
| | | 140 | 5700 | | 11.00 | 10.48 |
| | | 144 | 5720 | | 11.00 | 10.55 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 11.00 | 10.40 |
| | | 116 | 5580 | | 11.00 | 10.62 |
| | | 140 | 5700 | | 11.00 | 10.61 |
| | | 144 | 5720 | | 11.00 | 10.46 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 11.00 | 10.49 |
| | | 116 | 5580 | | 11.00 | 10.47 |
| | | 140 | 5700 | | 11.00 | 10.62 |
| | | 144 | 5720 | | 11.00 | 10.67 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 11.00 | 10.68 |
| | | 116 | 5580 | | 11.00 | 10.62 |
| | | 140 | 5700 | | 11.00 | 10.48 |
| | | 144 | 5720 | | 11.00 | 10.57 |
| | 802.11be20-EHT0 | 100 | 5500 | MCS0 | 11.00 | 10.69 |
| | | 116 | 5580 | | 11.00 | 10.57 |
| | | 140 | 5700 | | 11.00 | 10.59 |
| | | 144 | 5720 | | 11.00 | 10.68 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 11.00 | 10.68 |
| | | 110 | 5550 | | 11.00 | 10.51 |
| | | 134 | 5670 | | 11.00 | 10.52 |
| | | 142 | 5710 | | 11.00 | 10.56 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 11.00 | 10.70 |
| | | 110 | 5550 | | 11.00 | 10.44 |
| | | 134 | 5670 | | 11.00 | 10.62 |
| | | 142 | 5710 | | 11.00 | 10.66 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 11.00 | 10.63 |
| | | 110 | 5550 | | 11.00 | 10.55 |
| | | 134 | 5670 | | 11.00 | 10.52 |
| | | 142 | 5710 | | 11.00 | 10.62 |
| | 802.11be40-EHT0 | 102 | 5510 | MCS0 | 11.00 | 10.47 |
| | | 110 | 5550 | | 11.00 | 10.54 |
| | | 134 | 5670 | | 11.00 | 10.44 |
| | | 142 | 5710 | | 11.00 | 10.42 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 11.00 | 10.94 |
| | | 122 | 5610 | | 11.00 | 10.82 |
| | | 138 | 5690 | | 11.00 | 10.96 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 11.00 | 10.69 |
| | | 122 | 5610 | | 11.00 | 10.55 |
| | | 138 | 5690 | | 11.00 | 10.61 |
| | 802.11be80-EHT0 | 106 | 5530 | MCS0 | 11.00 | 10.52 |
| | | 122 | 5610 | | 11.00 | 10.61 |
| | | 138 | 5690 | | 11.00 | 10.62 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 11.00 | 10.85 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 11.00 | 10.61 |
| | 802.11be160-EHT0 | 114 | 5570 | MCS0 | 11.00 | 10.48 |

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| 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 | 10.25 | 9.84 |
| | | 157 | 5785 | | 10.25 | 9.75 |
| | | 165 | 5825 | | 10.25 | 9.81 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 10.25 | 9.77 |
| | | 157 | 5785 | | 10.25 | 9.89 |
| | | 165 | 5825 | | 10.25 | 9.94 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 10.25 | 9.93 |
| | | 157 | 5785 | | 10.25 | 10.01 |
| | | 165 | 5825 | | 10.25 | 9.97 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 10.25 | 10.00 |
| | | 157 | 5785 | | 10.25 | 9.90 |
| | | 165 | 5825 | | 10.25 | 9.89 |
| | 802.11be20-EHT0 | 149 | 5745 | MCS0 | 10.25 | 9.92 |
| | | 157 | 5785 | | 10.25 | 9.81 |
| | | 165 | 5825 | | 10.25 | 9.92 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 10.25 | 9.93 |
| | | 159 | 5795 | | 10.25 | 9.85 |
| | | 151 | 5755 | MCS0 | 10.25 | 9.98 |
| | 802.11ac40-VHT0 | 159 | 5795 | | 10.25 | 9.94 |
| | | 151 | 5755 | MCS0 | 10.25 | 9.80 |
| | | 159 | 5795 | | 10.25 | 9.83 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 10.25 | 9.79 |
| | | 159 | 5795 | | 10.25 | 9.77 |
| | | 151 | 5755 | MCS0 | 10.25 | 10.14 |
| | 802.11ac80-VHT0 | 155 | 5775 | | 10.25 | 9.91 |
| | | 155 | 5775 | | 10.25 | 9.91 |
| | | 155 | 5775 | | 10.25 | 10.00 |

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|--------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.9GHz | 802.11a | 169 | 5845 | 6Mbps | 11.00 | 10.53 |
| | | 173 | 5865 | | 11.00 | 10.42 |
| | | 177 | 5885 | | 11.00 | 10.58 |
| | 802.11n20-HT0 | 169 | 5845 | MCS0 | 11.00 | 10.40 |
| | | 173 | 5865 | | 11.00 | 10.49 |
| | | 177 | 5885 | | 11.00 | 10.57 |
| | 802.11ac20-VHT0 | 169 | 5845 | MCS0 | 11.00 | 10.41 |
| | | 173 | 5865 | | 11.00 | 10.56 |
| | | 177 | 5885 | | 11.00 | 10.44 |
| | 802.11ax20-HE0 | 169 | 5845 | MCS0 | 11.00 | 10.42 |
| | | 173 | 5865 | | 11.00 | 10.56 |
| | | 177 | 5885 | | 11.00 | 10.58 |
| | 802.11be20-EHT0 | 169 | 5845 | MCS0 | 11.00 | 10.52 |
| | | 173 | 5865 | | 11.00 | 10.45 |
| | | 177 | 5885 | | 11.00 | 10.51 |
| | 802.11n40-HT0 | 167 | 5835 | MCS0 | 11.00 | 10.53 |
| | | 175 | 5875 | | 11.00 | 10.46 |
| | | 167 | 5835 | MCS0 | 11.00 | 10.41 |
| | 802.11ac40-VHT0 | 175 | 5875 | | 11.00 | 10.42 |
| | | 167 | 5835 | MCS0 | 11.00 | 10.43 |
| | | 175 | 5875 | | 11.00 | 10.55 |
| | 802.11ax40-HE0 | 167 | 5835 | MCS0 | 11.00 | 10.40 |
| | | 175 | 5875 | | 11.00 | 10.59 |
| | | 167 | 5835 | MCS0 | 11.00 | 10.44 |
| | 802.11be40-EHT0 | 175 | 5875 | | 11.00 | 10.57 |
| | | 171 | 5855 | | 11.00 | 10.47 |
| | 802.11ac80-VHT0 | 171 | 5855 | MCS0 | 11.00 | 10.69 |
| | | 163 | 5815 | | 11.00 | 10.40 |
| | | 163 | 5815 | MCS0 | 11.00 | 10.48 |
| | 802.11ax160-HE0 | 163 | 5815 | | 11.00 | 10.48 |
| | | 163 | 5815 | | 11.00 | 10.48 |
| | | 163 | 5815 | | 11.00 | 10.48 |

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6.2 WIFI 6E

DS10_MIMO

| Aux | | | | | | |
|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-5 6.2GHz | 802.11a | 1 | 5955 | 6Mbps | 12.50 | 10.76 |
| | | 45 | 6175 | | 12.50 | 10.77 |
| | | 93 | 6415 | | 12.50 | 10.64 |
| | 802.11ax20-HE0 | 1 | 5955 | MCS0 | 12.50 | 10.69 |
| | | 45 | 6175 | | 12.50 | 10.66 |
| | | 93 | 6415 | | 12.50 | 10.76 |
| | 802.11be20-EHT0 | 1 | 5955 | MCS0 | 12.50 | 10.79 |
| | | 45 | 6175 | | 12.50 | 10.75 |
| | | 93 | 6415 | | 12.50 | 10.73 |
| | 802.11ax40-HE0 | 3 | 5965 | MCS0 | 12.50 | 10.67 |
| | | 43 | 6165 | | 12.50 | 10.60 |
| | | 91 | 6405 | | 12.50 | 10.61 |
| | 802.11be40-EHT0 | 3 | 5965 | MCS0 | 12.50 | 10.69 |
| | | 43 | 6165 | | 12.50 | 10.66 |
| | | 91 | 6405 | | 12.50 | 10.62 |
| | 802.11ax80-HE0 | 7 | 5985 | MCS0 | 12.50 | 10.77 |
| | | 39 | 6145 | | 12.50 | 10.70 |
| | | 87 | 6385 | | 12.50 | 10.78 |
| | 802.11be80-EHT0 | 7 | 5985 | MCS0 | 12.50 | 10.73 |
| | | 39 | 6145 | | 12.50 | 10.69 |
| | | 87 | 6385 | | 12.50 | 10.72 |
| | 802.11ax160-HE0 | 15 | 6025 | MCS0 | 12.50 | 10.64 |
| | | 47 | 6185 | | 12.50 | 10.73 |
| | | 79 | 6345 | | 12.50 | 10.74 |
| | 802.11be160-EHT0 | 15 | 6025 | MCS0 | 12.50 | 10.72 |
| | | 47 | 6185 | | 12.50 | 10.68 |
| | | 79 | 6345 | | 12.50 | 10.69 |
| | 802.11be320-EHT0 | 31 | 6105 | MCS0 | 12.50 | 10.85 |
| | | 63 | 6265 | | 12.50 | 11.13 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-6 6.5GHz | 802.11a | 97 | 6435 | 6Mbps | 0.00 | 0.00 |
| | | 105 | 6475 | | 0.00 | 0.00 |
| | | 113 | 6515 | | 0.00 | 0.00 |
| | 802.11ax20-HE0 | 97 | 6435 | MCS0 | 3.75 | 3.52 |
| | | 105 | 6475 | | 3.75 | 3.60 |
| | | 113 | 6515 | | 3.75 | 3.64 |
| | 802.11be20-EHT0 | 97 | 6435 | MCS0 | 3.75 | 3.61 |
| | | 105 | 6475 | | 3.75 | 3.65 |
| | | 113 | 6515 | | 3.75 | 3.57 |
| | 802.11ax40-HE0 | 99 | 6445 | MCS0 | 6.25 | 6.01 |
| | | 107 | 6485 | | 6.25 | 6.04 |
| | 802.11be40-EHT0 | 99 | 6445 | MCS0 | 6.25 | 6.06 |
| | | 107 | 6485 | | 6.25 | 6.05 |
| | 802.11ax80-HE0 | 103 | 6465 | MCS0 | 9.50 | 9.38 |
| | | 119 | 6545 | | 9.00 | 8.76 |
| | 802.11be80-EHT0 | 103 | 6465 | MCS0 | 9.50 | 9.34 |
| | | 119 | 6545 | | 9.00 | 8.75 |
| | 802.11ax160-HE0 | 111 | 6505 | MCS0 | 13.25 | 13.17 |
| | 802.11be160-EHT0 | 111 | 6505 | MCS0 | 13.25 | 13.09 |
| | 802.11be320-EHT0 | 95 | 6425 | MCS0 | 13.25 | 13.23 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-7 6.7GHz | 802.11a | 117 | 6535 | 6Mbps | 12.25 | 11.80 |
| | | 149 | 6695 | | 12.25 | 11.81 |
| | | 181 | 6855 | | 12.25 | 11.73 |
| | 802.11ax20-HE0 | 117 | 6535 | MCS0 | 12.25 | 11.78 |
| | | 149 | 6695 | | 12.25 | 11.79 |
| | | 181 | 6855 | | 12.25 | 11.80 |
| | 802.11be20-EHT0 | 117 | 6535 | MCS0 | 12.25 | 11.69 |
| | | 149 | 6695 | | 12.25 | 11.79 |
| | | 181 | 6855 | | 12.25 | 11.67 |
| | 802.11ax40-HE0 | 115 | 6525 | MCS0 | 6.25 | 5.79 |
| | | 147 | 6685 | | 12.25 | 11.80 |
| | | 179 | 6845 | | 12.25 | 11.67 |
| | 802.11be40-EHT0 | 115 | 6525 | MCS0 | 6.25 | 5.70 |
| | | 147 | 6685 | | 12.25 | 11.74 |
| | | 179 | 6845 | | 12.25 | 11.75 |
| | 802.11ax80-HE0 | 135 | 6625 | MCS0 | 12.25 | 11.67 |
| | | 151 | 6705 | | 12.25 | 11.85 |
| | | 167 | 6785 | | 12.25 | 11.66 |
| | 802.11be80-EHT0 | 135 | 6625 | MCS0 | 12.25 | 11.74 |
| | | 151 | 6705 | | 12.25 | 11.70 |
| | | 167 | 6785 | | 12.25 | 11.66 |
| | 802.11ax160-HE0 | 143 | 6665 | MCS0 | 12.25 | 11.73 |
| | | 175 | 6825 | | 12.25 | 11.83 |
| | 802.11be160-EHT0 | 143 | 6665 | MCS0 | 12.25 | 11.83 |
| | | 175 | 6825 | | 12.25 | 11.66 |
| | 802.11be320-EHT0 | 127 | 6585 | MCS0 | 12.25 | 12.20 |
| | | 159 | 6745 | | 12.25 | 11.87 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-8 7.0GHz | 802.11a | 185 | 6875 | 6Mbps | 0.25 | 0.11 |
| | | 209 | 6995 | | 0.25 | 0.07 |
| | | 233 | 7115 | | 0.25 | 0.04 |
| | 802.11ax20-HE0 | 185 | 6875 | MCS0 | 3.50 | 3.18 |
| | | 209 | 6995 | | 3.50 | 3.22 |
| | | 233 | 7115 | | -7.75 | -7.83 |
| | 802.11be20-EHT0 | 185 | 6875 | MCS0 | 3.50 | 3.21 |
| | | 209 | 6995 | | 3.50 | 3.16 |
| | | 233 | 7115 | | -7.75 | -7.93 |
| | 802.11ax40-HE0 | 187 | 6885 | MCS0 | 6.50 | 6.34 |
| | | 227 | 7085 | | 6.50 | 6.24 |
| | 802.11be40-EHT0 | 187 | 6885 | MCS0 | 6.50 | 6.31 |
| | | 227 | 7085 | | 6.50 | 6.25 |
| | 802.11ax80-HE0 | 183 | 6865 | MCS0 | 9.00 | 8.74 |
| | | 199 | 6945 | | 9.25 | 9.06 |
| | | 215 | 7025 | | 9.25 | 9.05 |
| | 802.11be80-EHT0 | 183 | 6865 | MCS0 | 9.00 | 8.66 |
| | | 199 | 6945 | | 9.25 | 8.91 |
| | | 215 | 7025 | | 9.25 | 8.98 |
| | 802.11ax160-HE0 | 207 | 6985 | MCS0 | 12.75 | 12.59 |
| | 802.11be160-EHT0 | 207 | 6985 | MCS0 | 12.75 | 12.54 |
| | 802.11be320-EHT0 | 191 | 6905 | MCS0 | 12.75 | 12.63 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-5 6.2GHz | 802.11a | 1 | 5955 | 6Mbps | 12.50 | 12.10 |
| | | 45 | 6175 | | 12.50 | 12.18 |
| | | 93 | 6415 | | 12.50 | 12.09 |
| | 802.11ax20-HE0 | 1 | 5955 | MCS0 | 12.50 | 12.12 |
| | | 45 | 6175 | | 12.50 | 12.16 |
| | | 93 | 6415 | | 12.50 | 12.20 |
| | 802.11be20-EHT0 | 1 | 5955 | MCS0 | 12.50 | 12.00 |
| | | 45 | 6175 | | 12.50 | 12.10 |
| | | 93 | 6415 | | 12.50 | 12.11 |
| | 802.11ax40-HE0 | 3 | 5965 | MCS0 | 12.50 | 12.20 |
| | | 43 | 6165 | | 12.50 | 12.18 |
| | | 91 | 6405 | | 12.50 | 12.17 |
| | 802.11be40-EHT0 | 3 | 5965 | MCS0 | 12.50 | 12.14 |
| | | 43 | 6165 | | 12.50 | 12.09 |
| | | 91 | 6405 | | 12.50 | 12.03 |
| | 802.11ax80-HE0 | 7 | 5985 | MCS0 | 12.50 | 12.16 |
| | | 39 | 6145 | | 12.50 | 12.05 |
| | | 87 | 6385 | | 12.50 | 12.18 |
| | 802.11be80-EHT0 | 7 | 5985 | MCS0 | 12.50 | 12.11 |
| | | 39 | 6145 | | 12.50 | 12.17 |
| | | 87 | 6385 | | 12.50 | 12.13 |
| | 802.11ax160-HE0 | 15 | 6025 | MCS0 | 12.50 | 12.06 |
| | | 47 | 6185 | | 12.50 | 12.01 |
| | | 79 | 6345 | | 12.50 | 12.02 |
| | 802.11be160-EHT0 | 15 | 6025 | MCS0 | 12.50 | 12.16 |
| | | 47 | 6185 | | 12.50 | 12.17 |
| | | 79 | 6345 | | 12.50 | 12.09 |
| | 802.11be320-EHT0 | 31 | 6105 | MCS0 | 12.50 | 12.23 |
| | | 63 | 6265 | | 12.50 | 12.45 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-6 6.5GHz | 802.11a | 97 | 6435 | 6Mbps | 0.00 | 0.00 |
| | | 105 | 6475 | | 0.00 | 0.00 |
| | | 113 | 6515 | | 0.00 | 0.00 |
| | 802.11ax20-HE0 | 97 | 6435 | MCS0 | 3.75 | 3.51 |
| | | 105 | 6475 | | 3.75 | 3.46 |
| | | 113 | 6515 | | 3.75 | 3.53 |
| | 802.11be20-EHT0 | 97 | 6435 | MCS0 | 3.75 | 3.52 |
| | | 105 | 6475 | | 3.75 | 3.51 |
| | | 113 | 6515 | | 3.75 | 3.49 |
| | 802.11ax40-HE0 | 99 | 6445 | MCS0 | 6.25 | 6.09 |
| | | 107 | 6485 | | 6.25 | 5.95 |
| | 802.11be40-EHT0 | 99 | 6445 | MCS0 | 6.25 | 5.99 |
| | | 107 | 6485 | | 6.25 | 6.13 |
| | 802.11ax80-HE0 | 103 | 6465 | MCS0 | 9.50 | 9.35 |
| | | 119 | 6545 | | 9.00 | 8.88 |
| | 802.11be80-EHT0 | 103 | 6465 | MCS0 | 9.50 | 9.26 |
| | | 119 | 6545 | | 9.00 | 8.77 |
| | 802.11ax160-HE0 | 111 | 6505 | MCS0 | 13.25 | 13.03 |
| | 802.11be160-EHT0 | 111 | 6505 | MCS0 | 13.25 | 13.11 |
| | 802.11be320-EHT0 | 95 | 6425 | MCS0 | 13.25 | 13.19 |

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|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-7 6.7GHz | 802.11a | 117 | 6535 | 6Mbps | 12.25 | 11.96 |
| | | 149 | 6695 | | 12.25 | 11.88 |
| | | 181 | 6855 | | 12.25 | 11.92 |
| | 802.11ax20-HE0 | 117 | 6535 | MCS0 | 12.25 | 11.96 |
| | | 149 | 6695 | | 12.25 | 11.81 |
| | | 181 | 6855 | | 12.25 | 11.92 |
| | 802.11be20-EHT0 | 117 | 6535 | MCS0 | 12.25 | 11.96 |
| | | 149 | 6695 | | 12.25 | 11.94 |
| | | 181 | 6855 | | 12.25 | 11.83 |
| | 802.11ax40-HE0 | 115 | 6525 | MCS0 | 6.25 | 5.86 |
| | | 147 | 6685 | | 12.25 | 11.99 |
| | | 179 | 6845 | | 12.25 | 11.88 |
| | 802.11be40-EHT0 | 115 | 6525 | MCS0 | 6.25 | 5.83 |
| | | 147 | 6685 | | 12.25 | 11.83 |
| | | 179 | 6845 | | 12.25 | 11.94 |
| | 802.11ax80-HE0 | 135 | 6625 | MCS0 | 12.25 | 11.87 |
| | | 151 | 6705 | | 12.25 | 11.94 |
| | | 167 | 6785 | | 12.25 | 11.92 |
| | 802.11be80-EHT0 | 135 | 6625 | MCS0 | 12.25 | 11.91 |
| | | 151 | 6705 | | 12.25 | 11.82 |
| | | 167 | 6785 | | 12.25 | 11.90 |
| | 802.11ax160-HE0 | 143 | 6665 | MCS0 | 12.25 | 11.97 |
| | | 175 | 6825 | | 12.25 | 11.84 |
| | 802.11be160-EHT0 | 143 | 6665 | MCS0 | 12.25 | 11.89 |
| | | 175 | 6825 | | 12.25 | 11.94 |
| | 802.11be320-EHT0 | 127 | 6585 | MCS0 | 12.25 | 12.13 |
| | | 159 | 6745 | | 12.25 | 12.05 |

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| Main | | | | | | |
|-------------------|------------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| U-NII-8 7.0GHz | 802.11a | 185 | 6875 | 6Mbps | 0.25 | 0.12 |
| | | 209 | 6995 | | 0.25 | 0.16 |
| | | 233 | 7115 | | 0.25 | 0.17 |
| | 802.11ax20-HE0 | 185 | 6875 | MCS0 | 3.50 | 2.73 |
| | | 209 | 6995 | | 3.50 | 2.77 |
| | | 233 | 7115 | | -7.75 | -7.85 |
| | 802.11be20-EHT0 | 185 | 6875 | MCS0 | 3.50 | 2.72 |
| | | 209 | 6995 | | 3.50 | 2.80 |
| | | 233 | 7115 | | -7.75 | -7.87 |
| | 802.11ax40-HE0 | 187 | 6885 | MCS0 | 6.50 | 5.82 |
| | | 227 | 7085 | | 6.50 | 5.79 |
| | 802.11be40-EHT0 | 187 | 6885 | MCS0 | 6.50 | 5.72 |
| | | 227 | 7085 | | 6.50 | 5.88 |
| | 802.11ax80-HE0 | 183 | 6865 | MCS0 | 9.00 | 8.30 |
| | | 199 | 6945 | | 9.25 | 8.56 |
| | | 215 | 7025 | | 9.25 | 8.50 |
| | 802.11be80-EHT0 | 183 | 6865 | MCS0 | 9.00 | 8.37 |
| | | 199 | 6945 | | 9.25 | 8.58 |
| | | 215 | 7025 | | 9.25 | 8.53 |
| | 802.11ax160-HE0 | 207 | 6985 | MCS0 | 12.75 | 12.10 |
| | 802.11be160-EHT0 | 207 | 6985 | MCS0 | 12.75 | 12.00 |
| | 802.11be320-EHT0 | 191 | 6905 | MCS0 | 12.75 | 12.13 |

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6.3 Bluetooth

DSI0_SISO_Aux

| 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 | 11.50 | 9.61 | 11.50 | 8.78 | 11.50 | 8.72 |
| | CH 39 | 2441 | | 9.67 | | 8.58 | | 8.61 |
| | CH 78 | 2480 | | 9.64 | | 8.63 | | 8.55 |

DSI0_SISO_Main

| 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 | 13.50 | 13.34 | 12.00 | 9.18 | 12.00 | 9.15 |
| | CH 39 | 2441 | | 13.46 | | 9.21 | | 9.17 |
| | CH 78 | 2480 | | 13.19 | | 9.14 | | 9.11 |

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6.4 BLE

DS10_SISO_Aux

| Mode | Channel | Frequency (MHz) | GFSK | |
|--------|---------|-----------------|---|----------------------------|
| | | | Max. Rated Avg.Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| BLE_1M | CH 00 | 2402 | 11.5 | 10.97 |
| | CH 19 | 2440 | | 10.82 |
| | CH 39 | 2480 | | 10.59 |
| Mode | Channel | Frequency (MHz) | GFSK | |
| | | | Max. Rated Avg.Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| BLE_2M | CH 00 | 2402 | 11.5 | 8.29 |
| | CH 19 | 2440 | | 8.16 |
| | CH 39 | 2480 | | 7.93 |

DS10_SISO_Main

| Mode | Channel | Frequency (MHz) | GFSK | |
|--------|---------|-----------------|---|----------------------------|
| | | | Max. Rated Avg.Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| BLE_1M | CH 00 | 2402 | 13.5 | 13.56 |
| | CH 19 | 2440 | | 13.93 |
| | CH 39 | 2480 | | 13.19 |
| Mode | Channel | Frequency (MHz) | GFSK | |
| | | | Max. Rated Avg.Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| BLE_2M | CH 00 | 2402 | 13.5 | 10.92 |
| | CH 19 | 2440 | | 11.41 |
| | CH 39 | 2480 | | 10.57 |

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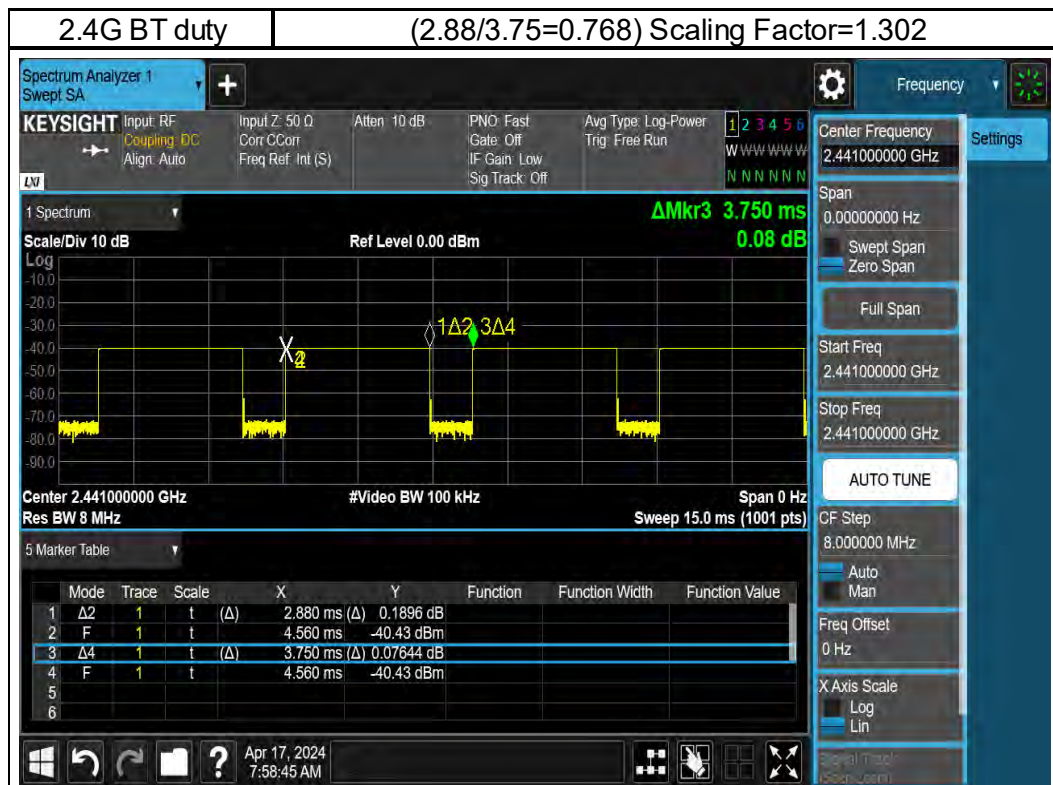
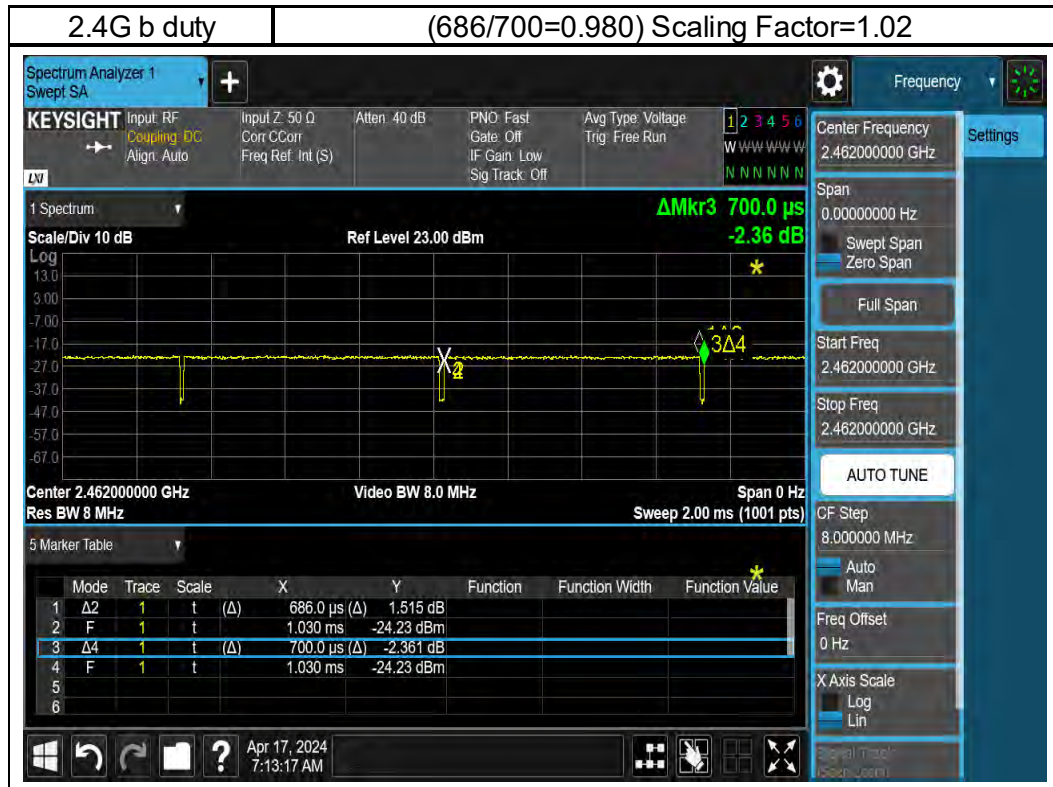
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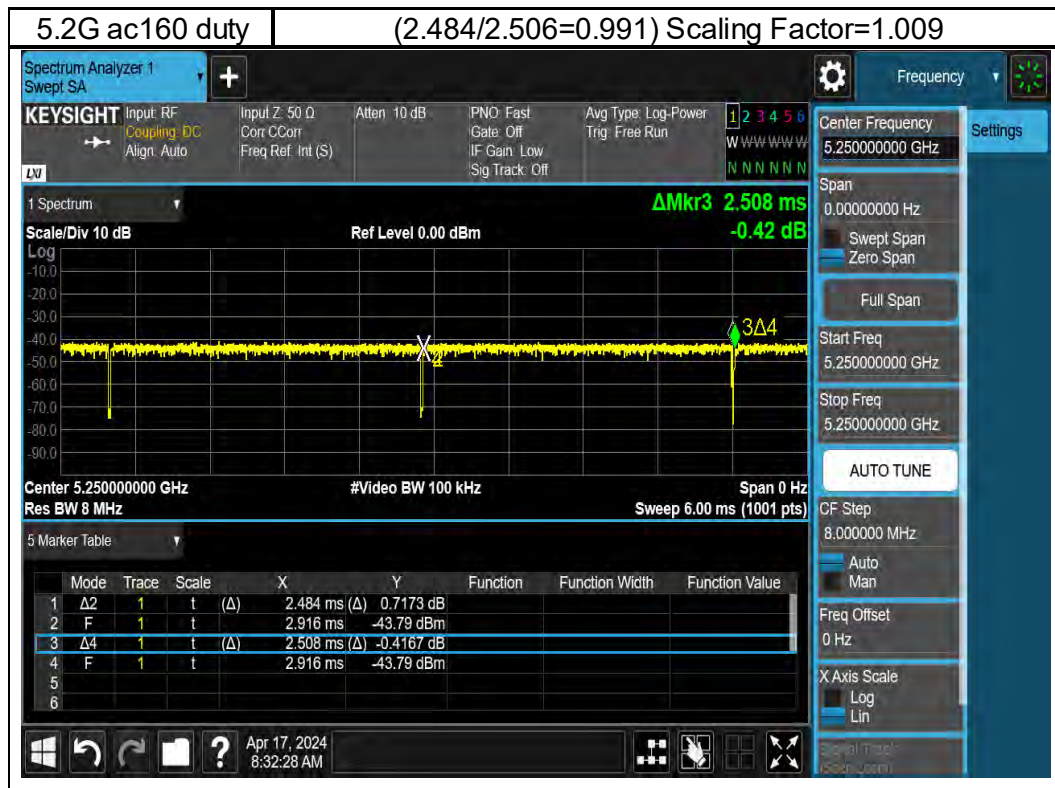
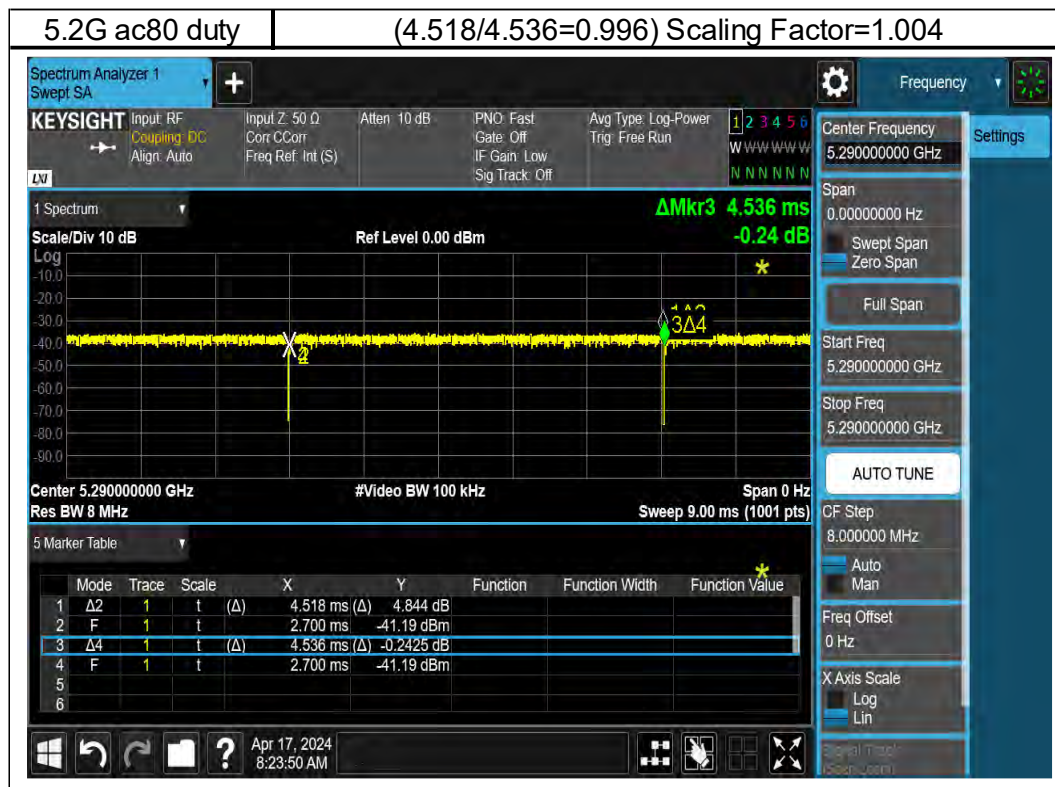
7 DUTY CYCLE



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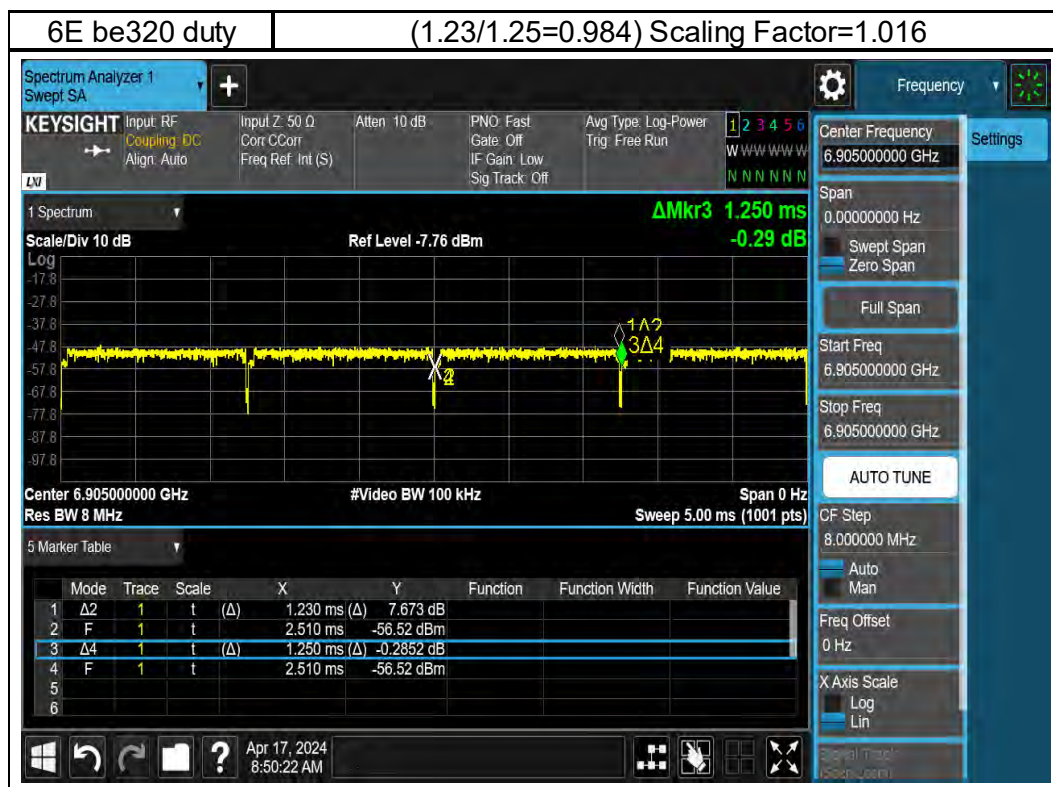
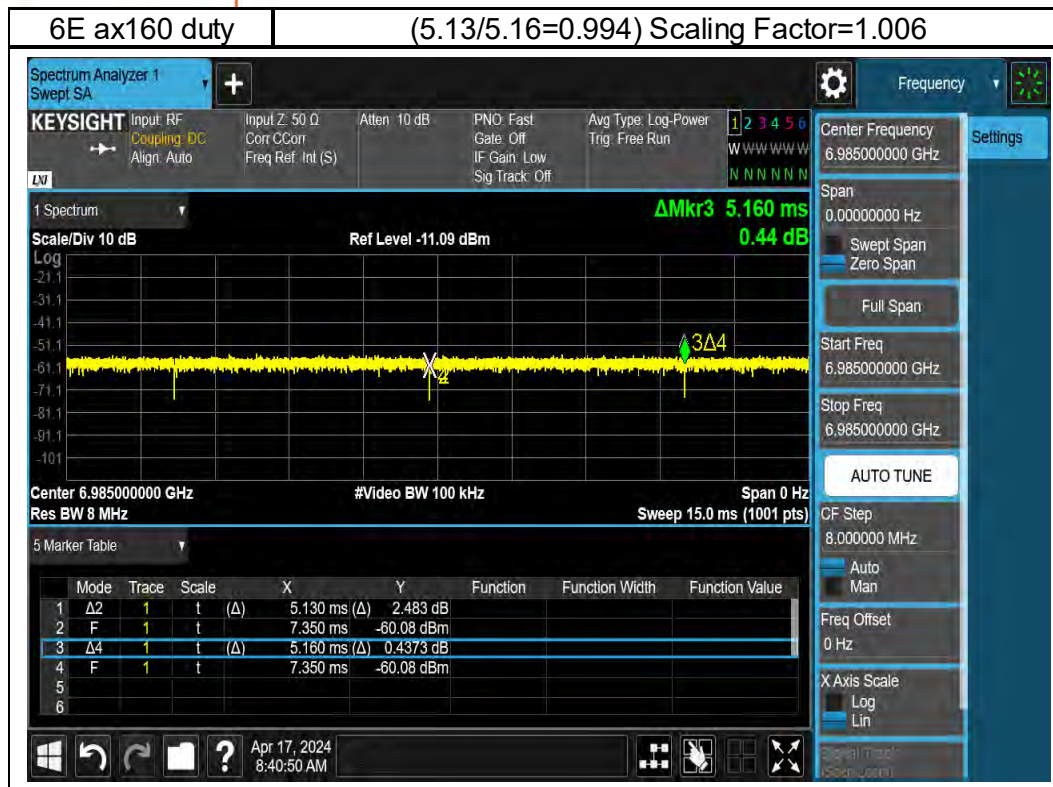
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8 SUMMARY OF RESULTS

8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

8.2 Summary of SAR Results

WLAN

DSI0_SISO_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 | Aux | Bottom Surface | 0 | 1 | 2412 | 15.00 | 14.51 | 1.02 | 111.94% | 0.532 | 0.607 | - |
| WLAN 802.11b | Aux | Bottom Surface | 0 | 6 | 2437 | 15.00 | 14.93 | 1.02 | 101.62% | 0.604 | 0.626 | 001 |
| WLAN 802.11b | Aux | Bottom Surface | 0 | 11 | 2462 | 15.00 | 14.91 | 1.02 | 102.09% | 0.577 | 0.601 | - |
| | | | | | | | | | | | | |
| 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 | 39 | 2441 | 11.50 | 9.67 | 1.30 | 152.41% | 0.188 | 0.373 | 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 802.11b | Main | Bottom Surface | 0 | 6 | 2437 | 15.00 | 14.91 | 1.02 | 102.09% | 0.524 | 0.546 | 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 | |
| Bluetooth(GFSK) | Main | Bottom Surface | 0 | 39 | 2441 | 13.50 | 13.46 | 1.30 | 100.93% | 0.224 | 0.294 | 004 |

DSI0_SISO_Edge

| 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 | Edge Front | 0 | 1 | 2412 | 15.00 | 14.51 | 1.02 | 111.94% | 0.411 | 0.469 | - |
| WLAN 802.11b | Aux | Edge Front | 0 | 6 | 2437 | 15.00 | 14.93 | 1.02 | 101.62% | 0.456 | 0.473 | 005 |
| WLAN 802.11b | Aux | Edge Front | 0 | 11 | 2462 | 15.00 | 14.91 | 1.02 | 102.09% | 0.442 | 0.460 | - |
| | | | | | | | | | | | | |
| 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 | Edge Front | 0 | 39 | 2441 | 11.50 | 9.67 | 1.30 | 152.41% | 0.104 | 0.206 | 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 | Main | Edge Front | 0 | 6 | 2437 | 15.00 | 14.91 | 1.02 | 102.09% | 0.269 | 0.280 | 007 |
| | | | | | | | | | | | | |
| Band | Antenna | Position | Distance (mm) | Channel | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Duty cycle scaling | Power scaling | Averaged SAR over 1g (W/kg) | | ID |
| | | | | | | | | | | Measured | Reported | |
| Bluetooth(GFSK) | Main | Edge Front | 0 | 39 | 2441 | 13.50 | 13.46 | 1.30 | 100.93% | 0.182 | 0.239 | 008 |

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DSI0_MIMO_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 | Aux | Bottom Surface | 0 | 6 | 2437 | 15.00 | 14.85 | 1.02 | 103.51% | 0.614 | 0.648 | 009 |
| | Main | | | | | 15.00 | 14.87 | | 103.04% | | | |
| 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 | 10.75 | 9.43 | 1.01 | 135.52% | 0.557 | 0.762 | 010 |
| | Main | | | | | 10.75 | 10.41 | | 108.14% | | | |
| 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 | 10.75 | 9.41 | 1.00 | 136.14% | 0.588 | 0.804 | 011 |
| | Main | | | | | 10.75 | 10.46 | | 106.91% | | | |
| 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) 5.6G | Aux | Bottom Surface | 0 | 114 | 5570 | 11.00 | 9.40 | 1.01 | 144.54% | 0.539 | 0.786 | 012 |
| | Main | | | | | 11.00 | 10.85 | | 103.51% | | | |
| 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 | 10.25 | 8.62 | 1.00 | 145.55% | 0.531 | 0.776 | 014 |
| | Main | | | | | 10.25 | 10.14 | | 102.57% | | | |
| 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 | 11.00 | 9.15 | 1.01 | 153.11% | 0.475 | 0.734 | 015 |
| | Main | | | | | 11.00 | 10.69 | | 107.40% | | | |

DSI0_MIMO_Edge

| 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 | Edge Front | 0 | 6 | 2437 | 15.00 | 14.85 | 1.02 | 103.51% | 0.251 | 0.265 | 016 |
| | Main | | | | | 15.00 | 14.87 | | 103.04% | | | |
| 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 | Edge Front | 0 | 50 | 5250 | 10.75 | 9.43 | 1.01 | 135.52% | 0.268 | 0.366 | 017 |
| | Main | | | | | 10.75 | 10.41 | | 108.14% | | | |
| 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 | Edge Front | 0 | 58 | 5290 | 10.75 | 9.41 | 1.00 | 136.14% | 0.133 | 0.182 | 018 |
| | Main | | | | | 10.75 | 10.46 | | 106.91% | | | |
| 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) 5.6G | Aux | Edge Front | 0 | 114 | 5570 | 11.00 | 9.40 | 1.01 | 144.54% | 0.335 | 0.489 | 019 |
| | Main | | | | | 11.00 | 10.85 | | 103.51% | | | |
| 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 | Edge Front | 0 | 155 | 5775 | 10.25 | 8.62 | 1.00 | 145.55% | 0.393 | 0.574 | 021 |
| | Main | | | | | 10.25 | 10.14 | | 102.57% | | | |
| 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 | Edge Front | 0 | 163 | 5815 | 11.00 | 9.15 | 1.01 | 153.11% | 0.245 | 0.378 | 022 |
| | Main | | | | | 11.00 | 10.69 | | 107.40% | | | |

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WLAN 6E_DSIO_MIMO_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) | | 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 | 12.50 | 10.85 | 1.02 | 146.22% | 0.652 | 0.969 | 4.55 | 6.759 | 023 |
| | Main | | | | | 12.50 | 12.23 | | 106.41% | | | | | |
| U-NII-5 6.2GHz 802.11be(320M) | Aux | Bottom Surface | 0 | 63 | 6265 | 12.50 | 11.13 | 1.02 | 137.09% | 0.559 | 0.779 | 3.95 | 5.502 | 024 |
| | Main | | | | | 12.50 | 12.45 | | 101.16% | | | | | |
| 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 802.11be(320M) | Aux | Bottom Surface | 0 | 95 | 6425 | 13.25 | 13.23 | 1.02 | 100.46% | 0.898 | 0.925 | 6.42 | 6.613 | 025 |
| | Main | | | | | 13.25 | 13.19 | | 101.39% | | | | | |
| Repeat | Aux | Bottom Surface | 0 | 95 | 6425 | 13.25 | 13.23 | 1.02 | 100.46% | 0.886 | 0.913 | 6.31 | 6.500 | - |
| | Main | | | | | 13.25 | 13.19 | | 101.39% | | | | | |
| 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 | 12.25 | 12.20 | 1.02 | 101.16% | 0.608 | 0.635 | 4.52 | 4.721 | 026 |
| | Main | | | | | 12.25 | 12.13 | | 102.80% | | | | | |
| 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 | 12.75 | 12.63 | 1.02 | 102.80% | 0.698 | 0.818 | 4.88 | 5.719 | 027 |
| | Main | | | | | 12.75 | 12.13 | | 115.35% | | | | | |

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

WLAN 6E_DSIO_MIMO_Edge

| 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 | Edge Front | 0 | 31 | 6105 | 12.50 | 10.85 | 1.02 | 146.22% | 0.356 | 0.529 | 2.33 | 3.461 | 028 |
| | Main | | | | | 12.50 | 12.23 | | 106.41% | | | | | |
| U-NII-5 6.2GHz 802.11be(320M) | Aux | Edge Front | 0 | 63 | 6265 | 12.50 | 11.13 | 1.02 | 137.09% | 0.397 | 0.553 | 2.66 | 3.705 | 029 |
| | Main | | | | | 12.50 | 12.45 | | 101.16% | | | | | |
| 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 802.11be(320M) | Aux | Edge Front | 0 | 95 | 6425 | 13.25 | 13.23 | 1.02 | 100.46% | 0.714 | 0.736 | 4.94 | 5.089 | 030 |
| | Main | | | | | 13.25 | 13.19 | | 101.39% | | | | | |
| 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 | Edge Front | 0 | 127 | 6585 | 12.25 | 12.20 | 1.02 | 101.16% | 0.602 | 0.629 | 4.26 | 4.449 | 031 |
| | Main | | | | | 12.25 | 12.13 | | 102.80% | | | | | |
| 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 | Edge Front | 0 | 191 | 6905 | 12.75 | 12.63 | 1.02 | 102.80% | 0.670 | 0.785 | 4.68 | 5.485 | 032 |
| | Main | | | | | 12.75 | 12.13 | | 115.35% | | | | | |

Note:

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

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

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8.3 Summary of PD Results

| Band | 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) | |
| U-NII-5 6.2GHz 802.11be(320M) | Bottom Surface | 2 | 31 | 6105 | 12.50 | 10.85 | 146.22% | 1.02 | 1.55 | 4.290 | 9.878 | 3.550 | 8.174 | 033 |
| | | | | | 12.50 | 12.23 | 106.41% | | | | | | | |
| | Bottom Surface | 2 | 63 | 6265 | 12.50 | 11.13 | 137.09% | 1.02 | 1.55 | 2.400 | 5.181 | 1.990 | 4.296 | 034 |
| | | | | | 12.50 | 12.45 | 101.16% | | | | | | | |
| U-NII-6 6.5GHz 802.11be(320M) | Bottom Surface | 2 | 95 | 6425 | 13.25 | 13.23 | 100.46% | 1.02 | 1.55 | 4.340 | 6.930 | 3.530 | 5.636 | 035 |
| | | | | | 13.25 | 13.19 | 101.39% | | | | | | | |
| U-NII-7 6.7GHz 802.11be(320M) | Bottom Surface | 2 | 127 | 6585 | 12.25 | 12.20 | 101.16% | 1.02 | 1.55 | 3.630 | 5.877 | 3.030 | 4.905 | 036 |
| | | | | | 12.25 | 12.13 | 102.80% | | | | | | | |
| U-NII-8 7.0GHz 802.11be(320M) | Bottom Surface | 2 | 191 | 6905 | 12.75 | 12.63 | 102.80% | 1.02 | 1.55 | 3.510 | 6.376 | 3.050 | 5.540 | 037 |
| | | | | | 12.75 | 12.13 | 115.35% | | | | | | | |

Note:

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

8.4 Reporting statements of conformity

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

8.5 Conclusion

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

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9 SIMULTANEOUS TRANSMISSION ANALYSIS

9.1 Simultaneous Transmission Scenarios:

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

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9.2 Estimated SAR calculation

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

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

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

9.3 SPLSR evaluation and analysis

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

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

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

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

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

Simultaneous Transmission Combination

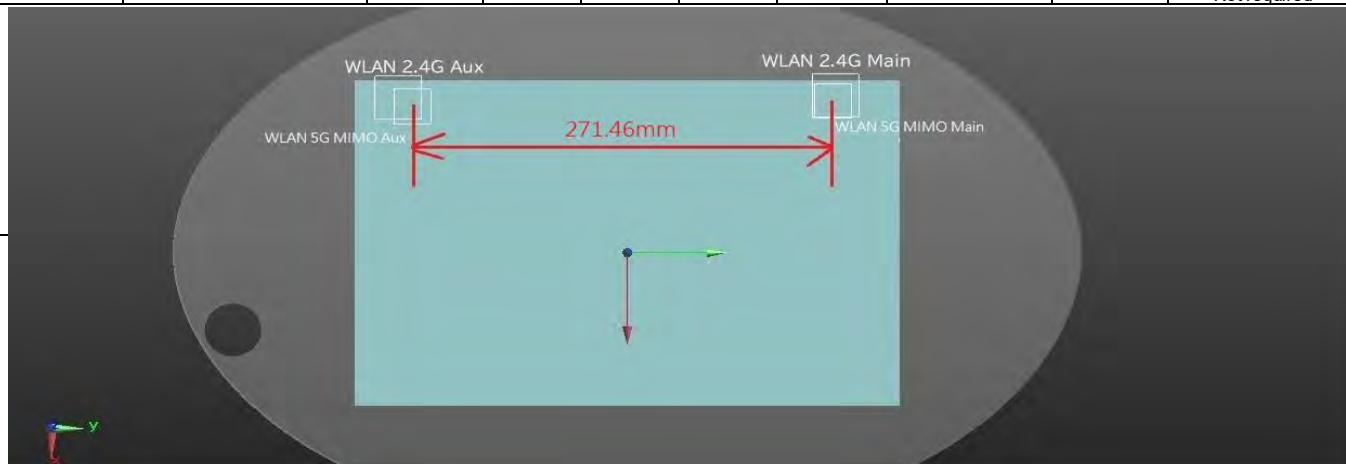
| Exposure Position | FCC Reported SAR | | | | | | | Scenario1 | Scenario2 | Scenario3 | Scenario4 | Scenario5 | Scenario6 | Scenario7 | Scenario8 |
|-------------------|------------------|------------------|------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 4+5 | 4+6 | 5+7 | 6+7 | 1+6 | 2+5 | 1+2+4 | 1+2+7 |
| | 2.4GHz WLAN Aux | 2.4GHz WLAN Main | 2.4GHz WLAN MIMO | 5GHz WLAN MIMO | Bluetooth Aux | Bluetooth Main | 6GHz WLAN MIMO | 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 | 0.626 | 0.546 | 0.648 | 0.804 | 0.373 | 0.294 | 0.969 | 1.177 | 1.098 | 1.342 | 1.263 | 0.920 | 0.919 | 1.976 |
| Edge Front | 0 | 0.473 | 0.280 | 0.265 | 0.489 | 0.206 | 0.239 | 0.785 | 0.695 | 0.728 | 0.961 | 1.024 | 0.712 | 0.486 | 1.242 |
| | | | | | | | | | | | | | | | 1.538 |

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| Scenario 7: | | | | | | | | | |
|----------------|-------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position | Conditions | SAR Value (W/kg) | Coordinates (cm) | | | Σ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
| | | | x | y | z | | | | |
| Bottom Surface | WLAN 2.4G Main | 0.546 | -10.90 | 13.64 | -0.20 | - | - | - | - |
| | WLAN 2.4G Aux | 0.626 | -10.60 | -14.50 | -0.13 | - | - | - | - |
| | WLAN 5G MIMO Main | 0.466 | -10.44 | 13.14 | -2.62 | - | - | - | - |
| | WLAN 5G MIMO Aux | 0.804 | -10.28 | -13.90 | -0.23 | 2.442 | 271.46 | 0.014 | SPLSR \leq 0.04, Not required |

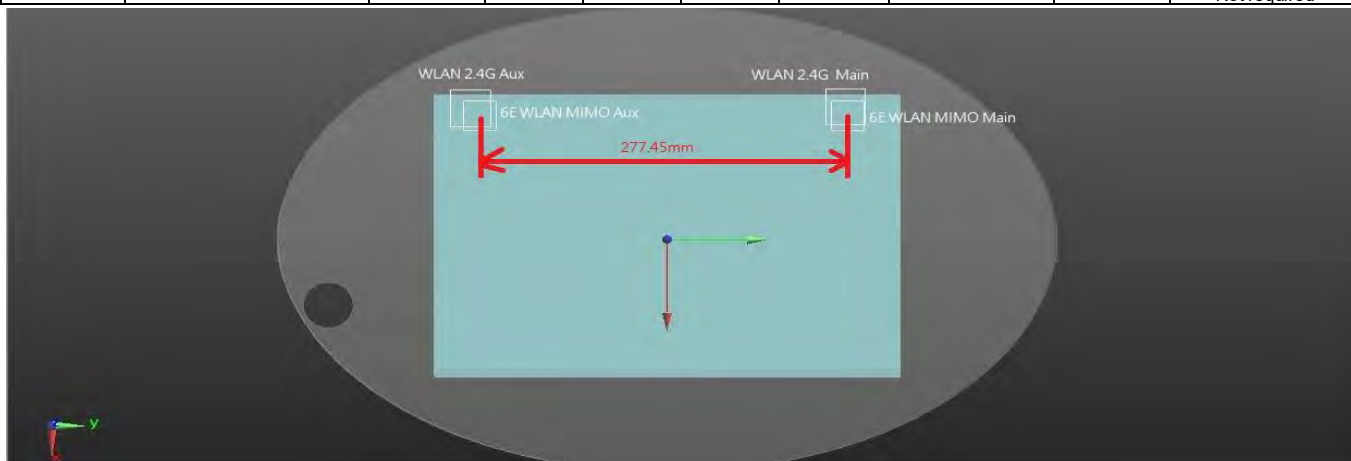


| Conditions | SAR Value (W/kg) | Σ SAR < 1.6 (W/kg) |
|-------------------|------------------|---------------------------|
| WLAN 2.4G Aux | 0.626 | - |
| WLAN 5G MIMO Aux | 0.804 | 1.430 |
| WLAN 2.4G Main | 0.546 | - |
| WLAN 5G MIMO Main | 0.466 | 1.012 |

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| Scenario 8: | | | | | | | | | |
|----------------|-------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position | Conditions | SAR Value (W/kg) | Coordinates (cm) | | | Σ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
| | | | x | y | z | | | | |
| Bottom Surface | WLAN 2.4G Aux | 0.626 | -10.60 | -14.50 | -0.13 | - | - | - | - |
| | WLAN 2.4G Main | 0.546 | -10.90 | 13.64 | -0.20 | - | - | - | - |
| | 6G WLAN MIMO Aux | 0.707 | -10.12 | -14.18 | -4.46 | - | - | - | - |
| | 6G WLAN MIMO Main | 0.969 | -10.12 | 13.28 | -0.49 | 2.848 | 277.45 | 0.017 | SPLSR \leq 0.04, Not required |



| Conditions | SAR Value (W/kg) | Σ SAR < 1.6 (W/kg) |
|-------------------|------------------|---------------------------|
| WLAN 2.4G Aux | 0.626 | - |
| WLAN 6G MIMO Aux | 0.707 | 1.333 |
| WLAN 2.4G Main | 0.546 | - |
| WLAN 6G MIMO Main | 0.969 | 1.515 |

9.4 Conclusion

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

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10 INSTRUMENTS LIST

| Equipment List | | | | | |
|----------------|--|-------------------------|---------------|--------------------------|--------------------------|
| Manufacturer | Device | Type | Serial number | Date of last calibration | Date of next calibration |
| SPEAG | Data acquisition Electronics | DAE4 | 1719 | Jan/17/2024 | Jan/16/2025 |
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 7642 | Feb/21/2024 | Feb/20/2025 |
| SPEAG | E-field Probe for Near Field Application | EUmmWV3 | 9399 | Jan/23/2024 | Jan/22/2025 |
| SPEAG | System Validation Dipole | D2450V2 | 728 | Aug/28/2023 | Aug/27/2024 |
| SPEAG | System Validation Dipole | D5GHzV2 | 1023 | Jan/24/2024 | Jan/23/2025 |
| SPEAG | System Validation Dipole | D6.5GHzV2 | 1006 | Aug/16/2023 | Aug/15/2024 |
| SPEAG | System Validation Dipole | D7GHzV2 | 1007 | Aug/16/2023 | Aug/15/2024 |
| SPEAG | 5G Verification Source 10GHz | 5G-Veri10 | 1070 | Aug/08/2023 | Aug/07/2024 |
| R&S | MXG Analog Signal Generator | SMB100A03 | 182012 | May/23/2023 | May/22/2024 |
| 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 | ZVE-8G | 980190 | Calibration not required | Calibration not required |
| R&S | Power Meter | NRX | 102034 | Dec/13/2023 | Dec/12/2024 |
| R&S | Power Sensor | NRP18S | 101974 | Nov/21/2023 | Nov/20/2024 |
| R&S | Power Sensor | NRP18S | 109066 | Oct/23/2023 | Oct/22/2024 |
| SPEAG | Dielectric Assessment Kit | DAK-3.5 | 1342 | May/23/2023 | May/22/2024 |
| Agilent | Network Analyzer | E5071C | MY46107530 | Jun/01/2023 | May/31/2024 |
| Keysight | Economy calibration kit | 85032E | MY61410222 | Mar/18/2024 | Mar/17/2025 |
| SPEAG | Software | DASY 6 V16.0.0.116 | N/A | Calibration not required | Calibration not required |
| SPEAG | Software | DASY 52 V52.10.4.152 7 | N/A | Calibration not required | Calibration not required |
| SPEAG | Software | DASY 6 mmWave V2.4.2.62 | N/A | Calibration not required | Calibration not required |
| SPEAG | Phantom | ELI | N/A | Calibration not required | Calibration not required |
| SPEAG | Phantom | mmWave Phantom | N/A | Calibration not required | Calibration not required |
| TECPEL | Digital thermometer | DTM-303A | TP190085 | Dec/19/2023 | Dec/18/2024 |

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11 UNCERTAINTY BUDGET

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

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|---|---------------------------|----------------------------|-----|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard uncertainty | vi, or Veff |
| Measurement system | | | | | | | | | |
| Probe calibration | 6.55% | N | 1 | 1 | 1 | 1 | 6.55% | 6.55% | ∞ |
| Isotropy , Axial | 3.50% | R | √3 | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| Isotropy, Hemispherical | 9.60% | R | √3 | 1.732 | 1 | 1 | 5.54% | 5.54% | ∞ |
| Modulation Response | 2.40% | R | √3 | 1.732 | 1 | 1 | 1.40% | 1.40% | ∞ |
| Boundary Effect | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Linearity | 4.70% | R | √3 | 1.732 | 1 | 1 | 2.71% | 2.71% | ∞ |
| Detection Limits | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Readout Electronics | 0.30% | N | 1 | 1 | 1 | 1 | 0.30% | 0.30% | ∞ |
| Response time | 0.80% | R | √3 | 1.732 | 1 | 1 | 0.46% | 0.46% | ∞ |
| Integration Time | 2.60% | R | √3 | 1.732 | 1 | 1 | 1.50% | 1.50% | ∞ |
| Measurement drift (class A evaluation) | 1.75% | R | √3 | 1.732 | 1 | 1 | 1.01% | 1.01% | ∞ |
| RF ambient condition - noise | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| RF ambient conditions - reflections | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| Probe positioner Mechanical restrictions | 0.40% | R | √3 | 1.732 | 1 | 1 | 0.23% | 0.23% | ∞ |
| Probe Positioning with respect to phantom shell | 2.90% | R | √3 | 1.732 | 1 | 1 | 1.67% | 1.67% | ∞ |
| Post-processing | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Max SAR Eval | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| | | | | | | | | | |
| Test Sample related | | | | | | | | | |
| Test sample positioning | 2.90% | N | 1 | 1 | 1 | 1 | 2.90% | 2.90% | M-1 |
| Device Holder Uncertainty | 3.60% | N | 1 | 1 | 1 | 1 | 3.60% | 3.60% | M-1 |
| Drift of output power | 5.00% | R | √3 | 1.732 | 1 | 1 | 2.89% | 2.89% | ∞ |
| | | | | | | | | | |
| Phantom and Setup | | | | | | | | | |
| Phantom Uncertainty | 4.00% | R | √3 | 1.732 | 1 | 1 | 2.31% | 2.31% | ∞ |
| Liquid permittivity (mea.) | 2.54% | N | 1 | 1 | 0.64 | 0.43 | 1.63% | 1.09% | M |
| Liquid Conductivity (mea.) | 3.18% | N | 1 | 1 | 0.6 | 0.49 | 1.91% | 1.56% | M |
| Combined standard uncertainty | | RSS | | | | | 11.98% | 11.86% | |
| Expan uncertainty (95% confidence interval), K=2 | | | | | | | 23.96% | 23.72% | |

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

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|---|---------------------------|----------------------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard uncertainty | vi, or Veff |
| Measurement system | | | | | | | | | |
| Probe calibration | 6.00% | N | 1 | 1 | 1 | 1 | 6.00% | 6.00% | ∞ |
| Isotropy , Axial | 3.50% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| Isotropy, Hemispherical | 9.60% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 5.54% | 5.54% | ∞ |
| Modulation Response | 2.40% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.40% | 1.40% | ∞ |
| Boundary Effect | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Linearity | 4.70% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.71% | 2.71% | ∞ |
| Detection Limits | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Readout Electronics | 0.30% | N | 1 | 1 | 1 | 1 | 0.30% | 0.30% | ∞ |
| Response time | 0.80% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.46% | 0.46% | ∞ |
| Integration Time | 2.60% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.50% | 1.50% | ∞ |
| Measurement drift (class A evaluation) | 1.75% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.01% | 1.01% | ∞ |
| RF ambient condition - noise | 3.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| RF ambient conditions - reflections | 3.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| Probe positioner Mechanical restrictions | 0.40% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.23% | 0.23% | ∞ |
| Probe Positioning with respect to phantom shell | 2.90% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.67% | 1.67% | ∞ |
| Post-processing | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Max SAR Eval | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Test Sample related | | | | | | | | | |
| Test sample positioning | 2.90% | N | 1 | 1 | 1 | 1 | 2.90% | 2.90% | M-1 |
| Device Holder Uncertainty | 3.60% | N | 1 | 1 | 1 | 1 | 3.60% | 3.60% | M-1 |
| Drift of output power | 5.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.89% | 2.89% | ∞ |
| Phantom and Setup | | | | | | | | | |
| Phantom Uncertainty | 4.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.31% | 2.31% | ∞ |
| Liquid permittivity (mea.) | 2.21% | N | 1 | 1 | 0.64 | 0.43 | 1.41% | 0.95% | M |
| Liquid Conductivity (mea.) | 2.50% | N | 1 | 1 | 0.6 | 0.49 | 1.50% | 1.23% | M |
| Combined standard uncertainty | | RSS | | | | | 11.60% | 11.51% | |
| Expan uncertainty (95% confidence interval), K=2 | | | | | | | 23.20% | 23.03% | |

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

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

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**cDASY6 Module mmWave Uncertainty Budget for PD
Evaluation Distances to the Antennas $\geq \lambda/5$
In Compliance with IEC/IEEE 63195**

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

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12 SAR MEASUREMENT RESULTS

Date: 2024/4/16

ID: 001

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Aux

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.737 W/kg

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

Reference Value = 11.12 V/m; Power Drift = -0.11 dB

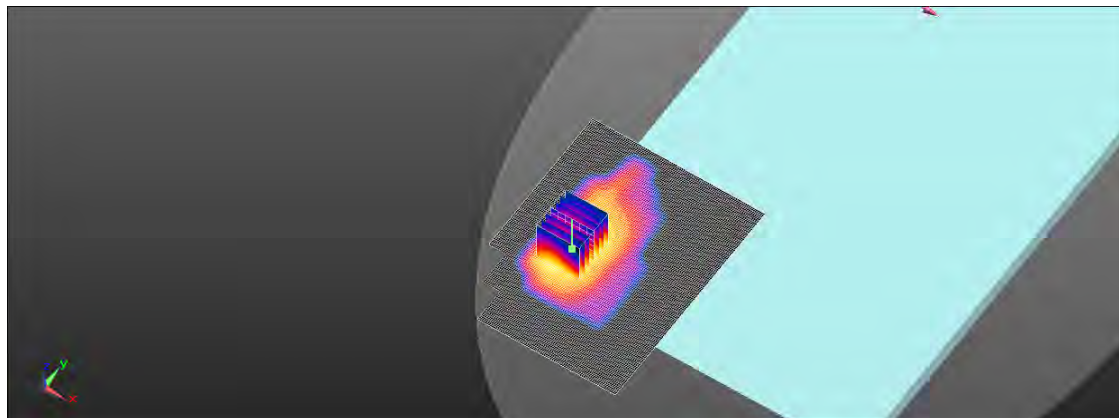
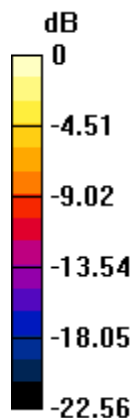
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.268 W/kg

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

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

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



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

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Date: 2024/4/16

ID: 002

Report No. :TESA2403000149ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle=1:1.302

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2441 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.226 W/kg

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

Reference Value = 6.542 V/m; Power Drift = -0.06 dB

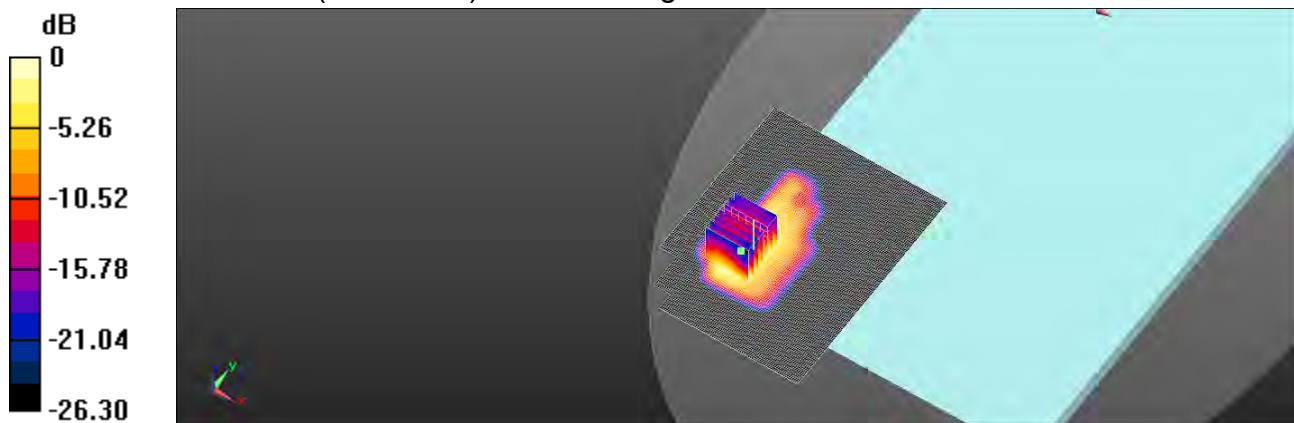
Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.081 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

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



0 dB = 0.288 W/kg = -5.40 dBW/kg

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Date: 2024/4/16

ID: 003

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Main

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.828 W/kg

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

Reference Value = 13.27 V/m; Power Drift = -0.13 dB

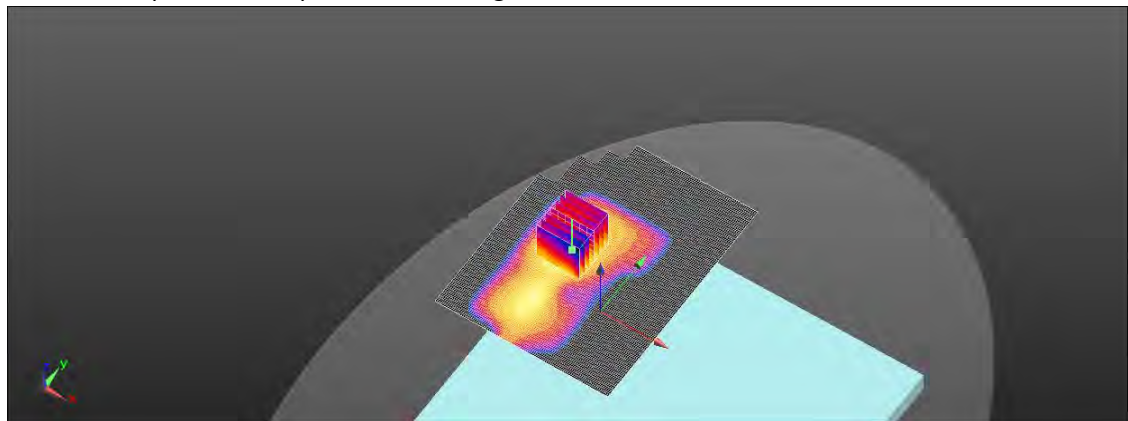
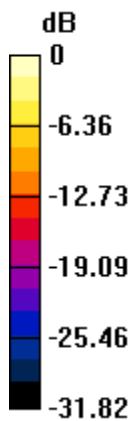
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.210 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 0.844 W/kg



0 dB = 0.844 W/kg = -0.74 dBW/kg

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Date: 2024/4/16

ID: 004

Report No. :TESA2403000149ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Main

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle=1:1.302

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.77 \text{ S/m}$; $\epsilon_r = 40.021$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2441 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x141x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.272 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.622 V/m; Power Drift = 0.12 dB

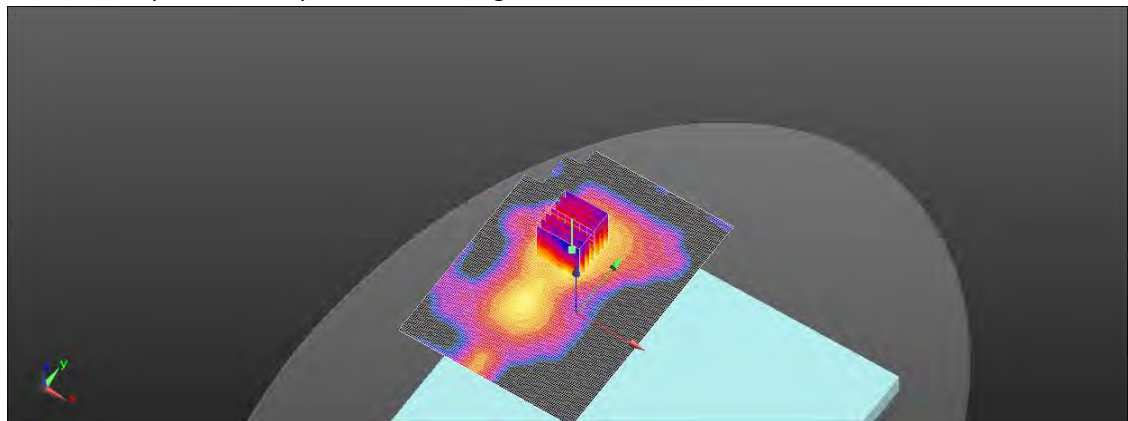
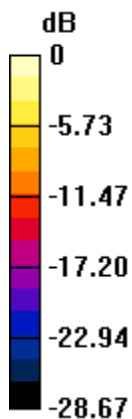
Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.093 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.372 W/kg = -4.30 dBW/kg

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Date: 2024/4/16

ID: 005

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Edge Front_CH 6_0mm_Aux

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.755 W/kg

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

Reference Value = 12.73 V/m; Power Drift = 0.04 dB

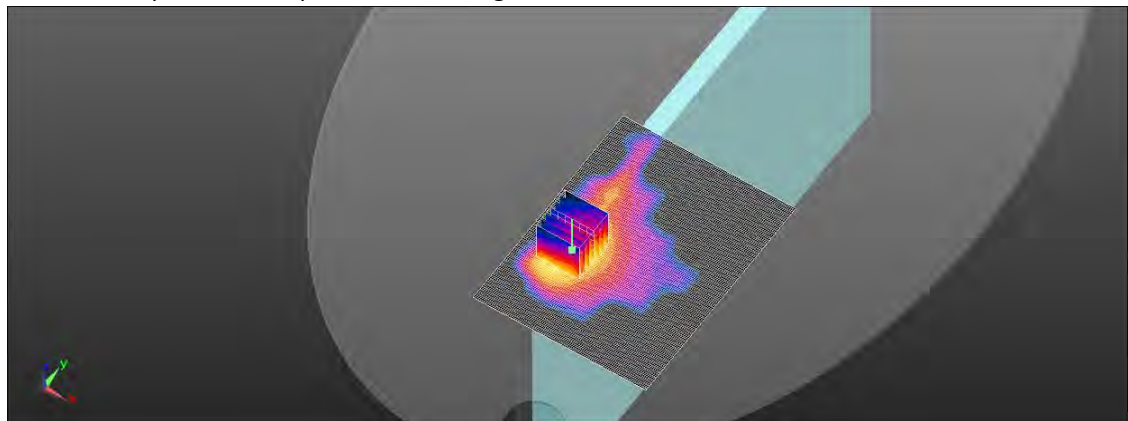
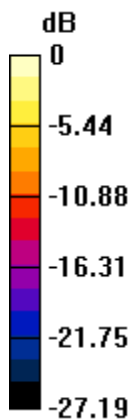
Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.176 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 0.766 W/kg



0 dB = 0.766 W/kg = -1.16 dBW/kg

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Date: 2024/4/16

ID: 006

Report No. :TESA2403000149ES

Bluetooth(GFSK)_Body_Edge Front_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle=1:1.302

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2441 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 5.829 V/m; Power Drift = 0.14 dB

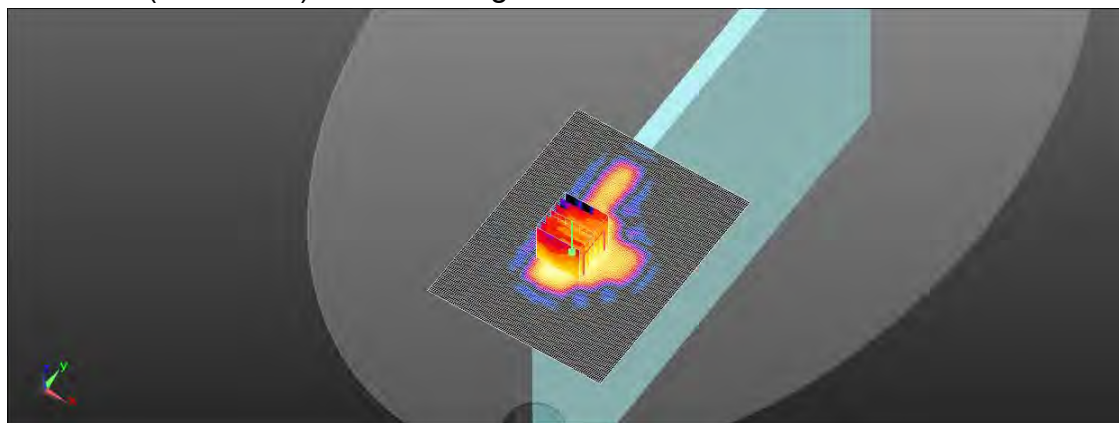
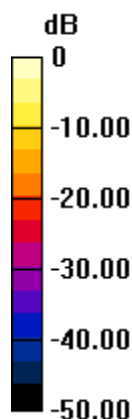
Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.036 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 0.183 W/kg



0 dB = 0.183 W/kg = -7.37 dBW/kg

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Date: 2024/4/16

ID: 007

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Edge Front_CH 6_0mm_Main

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.472 W/kg

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

Reference Value = 9.325 V/m; Power Drift = 0.07 dB

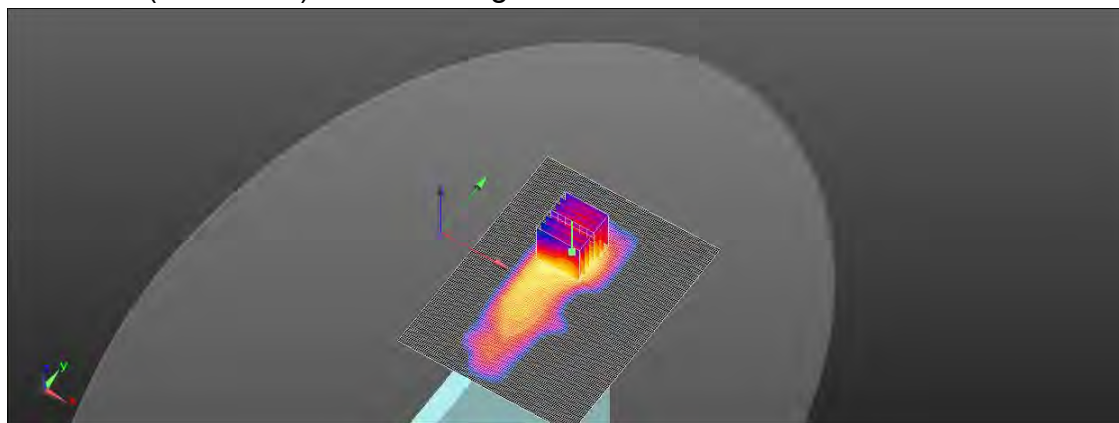
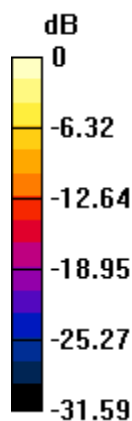
Peak SAR (extrapolated) = 0.664 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.104 W/kg

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

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

Maximum value of SAR (measured) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Date: 2024/4/16

ID: 008

Report No. :TESA2403000149ES

Bluetooth(GFSK)_Body_Edge Front_CH 39_0mm_Main

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle=1:1.302

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2441 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.321 W/kg

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

Reference Value = 7.312 V/m; Power Drift = 0.11 dB

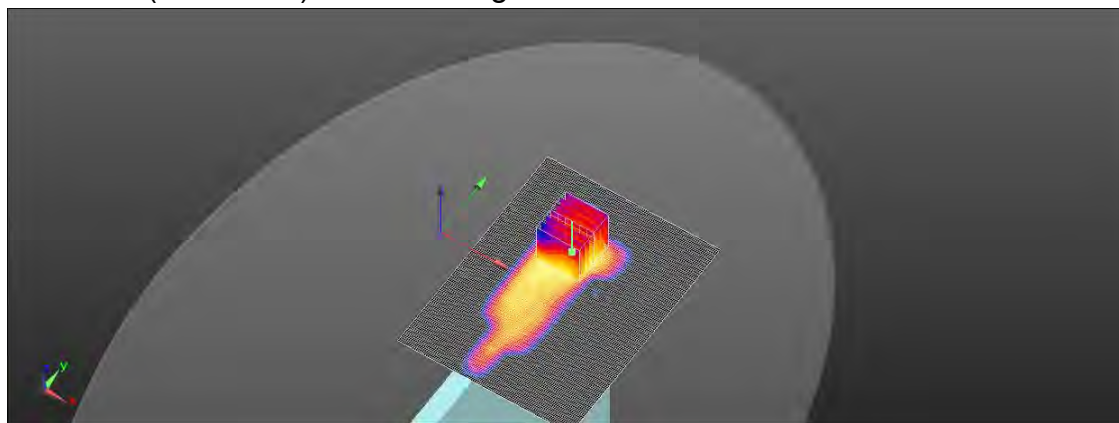
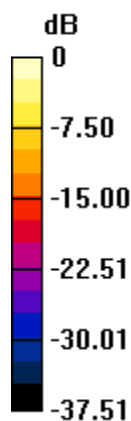
Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.069 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.312 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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Date: 2024/4/16

ID: 009

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_MIMO

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x341x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.846 W/kg

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

Reference Value = 12.28 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.280 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.911 W/kg

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

Reference Value = 12.28 V/m; Power Drift = -0.07 dB

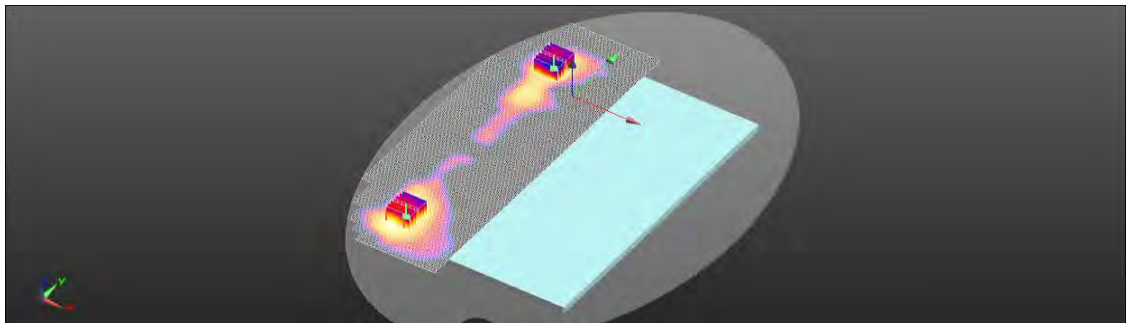
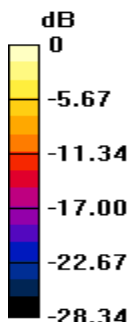
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.188 W/kg

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

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

Maximum value of SAR (measured) = 0.751 W/kg



0 dB = 0.751 W/kg = -1.24 dBW/kg

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Date: 2024/4/17

ID: 010

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_0mm_MIMO

Communication System: WLAN; Frequency: 5250 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.676 \text{ S/m}$; $\epsilon_r = 36.847$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5250 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.10 W/kg

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

Reference Value = 7.013 V/m; Power Drift = 0.11 dB

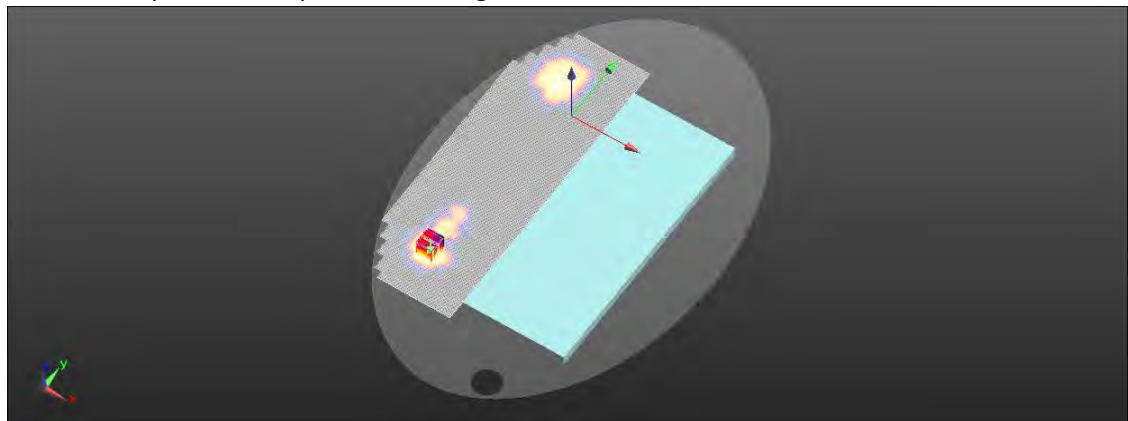
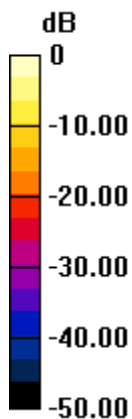
Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.150 W/kg

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

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

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.46 dBW/kg

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Date: 2024/4/17

ID: 011

Report No. :TESA2403000149ES

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_MIMO

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle=1:1.004

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.803 \text{ S/m}$; $\epsilon_r = 36.732$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5290 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.17 W/kg

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

Reference Value = 7.437 V/m; Power Drift = 0.17 dB

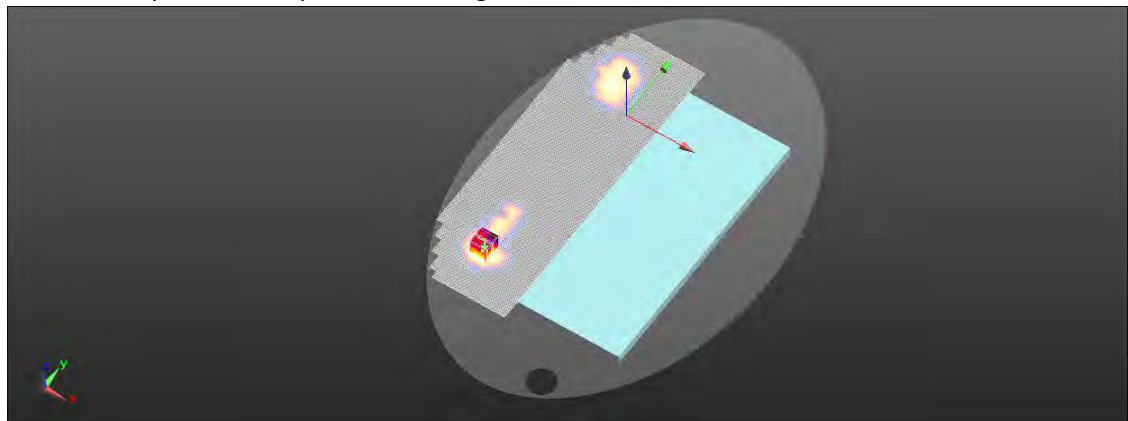
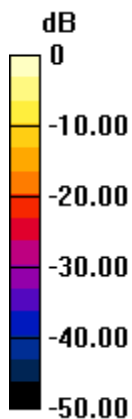
Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.160 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

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Date: 2024/4/17

ID: 012

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_MIMO

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.043 \text{ S/m}$; $\epsilon_r = 36.428$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.04, 4.93, 4.88) @ 5570 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.920 W/kg

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

Reference Value = 7.157 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.166 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 0.931 W/kg

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

Reference Value = 7.157 V/m; Power Drift = 0.09 dB

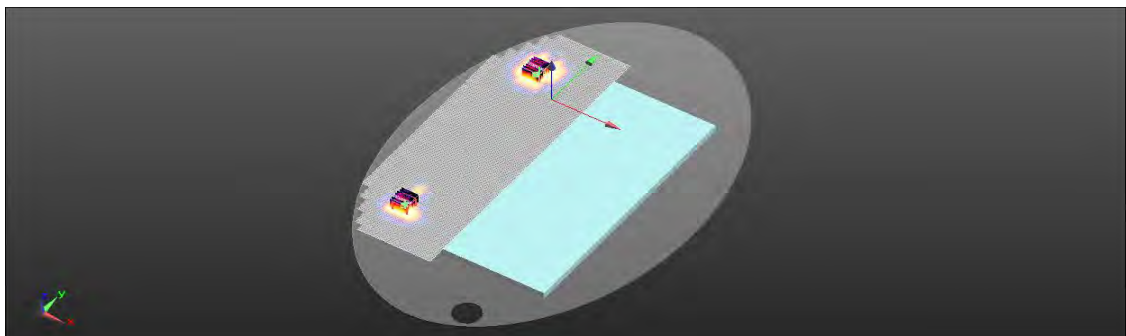
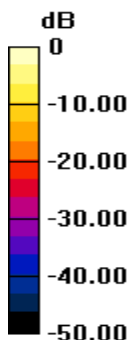
Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.115 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.700 W/kg



0 dB = 0.700 W/kg = -1.55 dBW/kg

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Date: 2024/4/17

ID: 014

Report No. :TESA2403000149ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_MIMO

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle=1:1.004

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.364 \text{ S/m}$; $\epsilon_r = 36.061$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5775 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.26 W/kg

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

Reference Value = 7.825 V/m; Power Drift = -0.02 dB

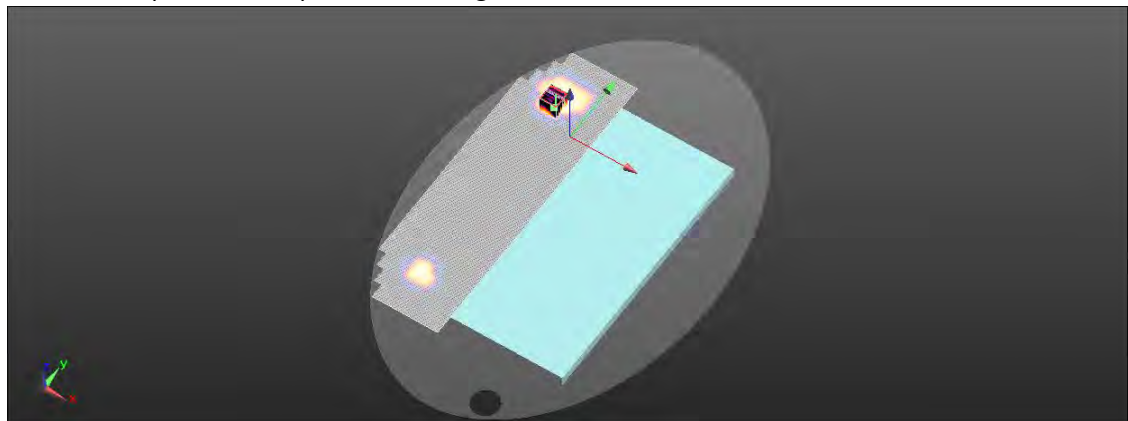
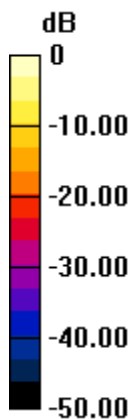
Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.149 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.8%

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



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

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Date: 2024/4/17

ID: 015

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.9G_Body_Bottom Surface_CH 163_0mm_MIMO

Communication System: WLAN; Frequency: 5815 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.382 \text{ S/m}$; $\epsilon_r = 35.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5815 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (141x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.861 W/kg

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

Reference Value = 7.728 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.153 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

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

Maximum value of SAR (measured) = 0.902 W/kg

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

Reference Value = 7.728 V/m; Power Drift = -0.05 dB

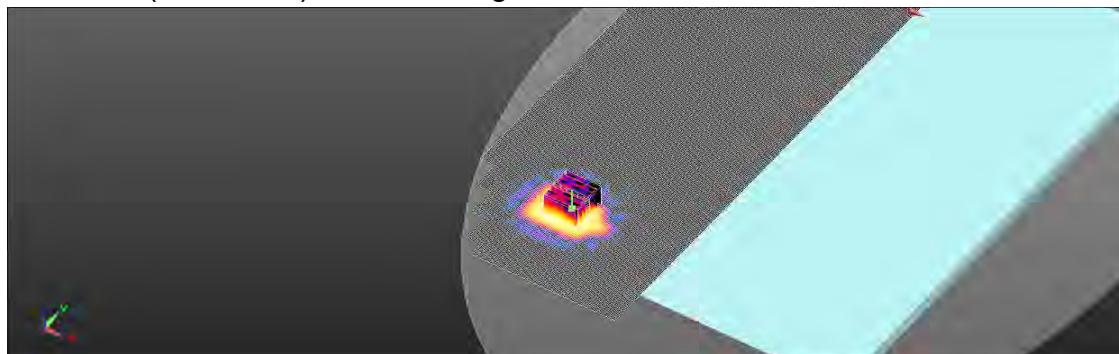
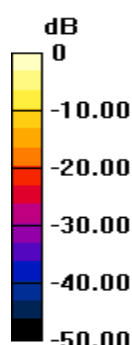
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.093 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

Date: 2024/4/16

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ID: 016

Report No. :TESA2403000149ES

WLAN 802.11b_Body_Edge Front_CH 6_0mm_MIMO

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle=1:1.02

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 40.087$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2437 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x341x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.346 W/kg

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

Reference Value = 5.278 V/m; Power Drift = 0.12 dB

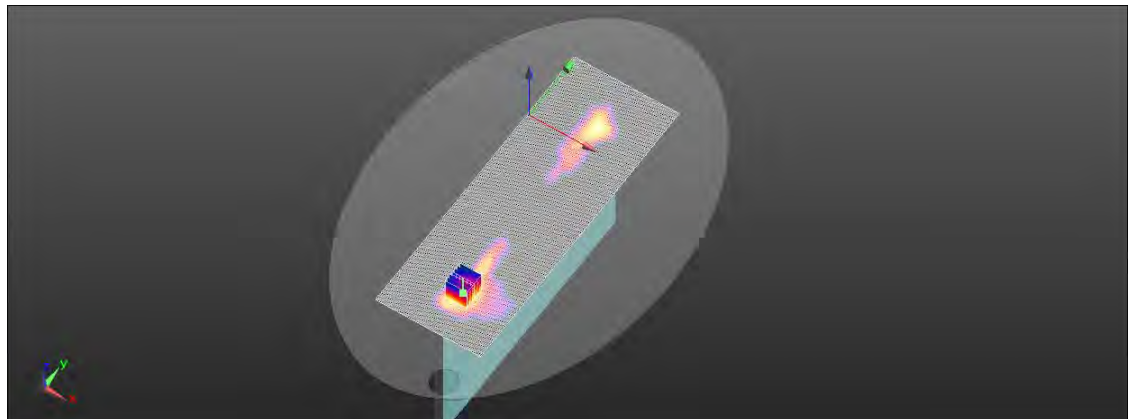
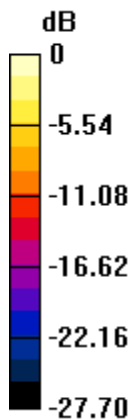
Peak SAR (extrapolated) = 0.608 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.095 W/kg

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

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

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



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

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Date: 2024/4/18

ID: 017

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.2G_Body_Edge Front_CH 50_0mm_MIMO

Communication System: WLAN; Frequency: 5250 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.609$ S/m; $\epsilon_r = 36.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5250 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x411x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.456 W/kg

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

Reference Value = 5.234 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.099 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.410 W/kg

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

Reference Value = 5.234 V/m; Power Drift = -0.05 dB

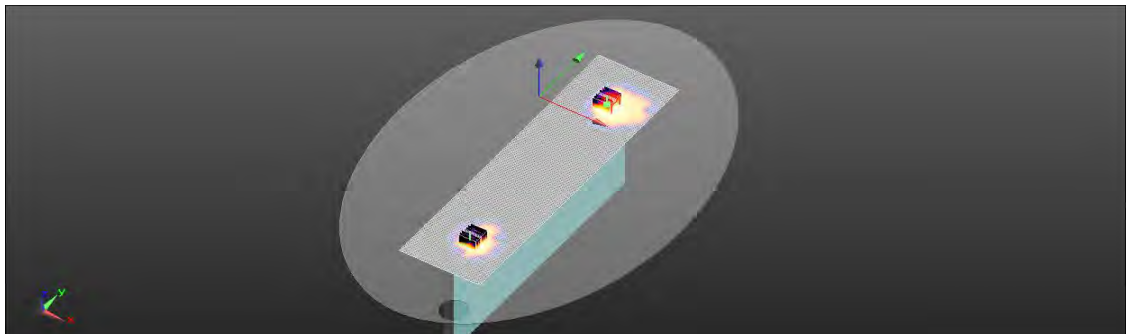
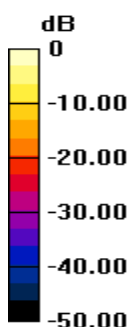
Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.056 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

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Date: 2024/4/18

ID: 018

Report No. :TESA2403000149ES

WLAN 802.11ac(80M) 5.3G_Body_Edge Front_CH 58_0mm_MIMO

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle=1:1.004

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.77$ S/m; $\epsilon_r = 36.612$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5290 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x411x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.254 W/kg

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

Reference Value = 3.782 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

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

Maximum value of SAR (measured) = 0.208 W/kg

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

Reference Value = 3.782 V/m; Power Drift = 0.09 dB

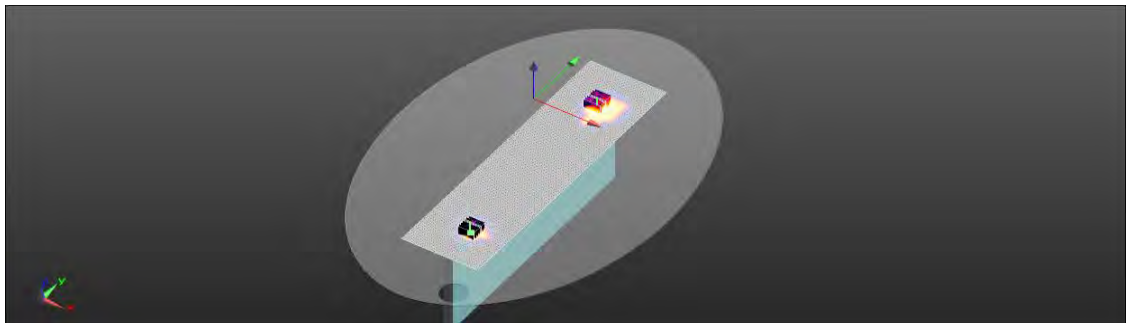
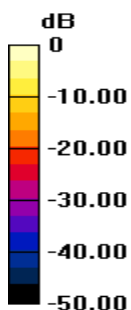
Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.049 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.208 W/kg = -6.83 dBW/kg

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Date: 2024/4/18

ID: 019

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.6G_Body_Edge Front_CH 114_0mm_MIMO

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5570$ MHz; $\sigma = 4.924$ S/m; $\epsilon_r = 36.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.04, 4.93, 4.88) @ 5570 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x411x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.911 W/kg

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

Reference Value = 4.232 V/m; Power Drift = 0.01 dB

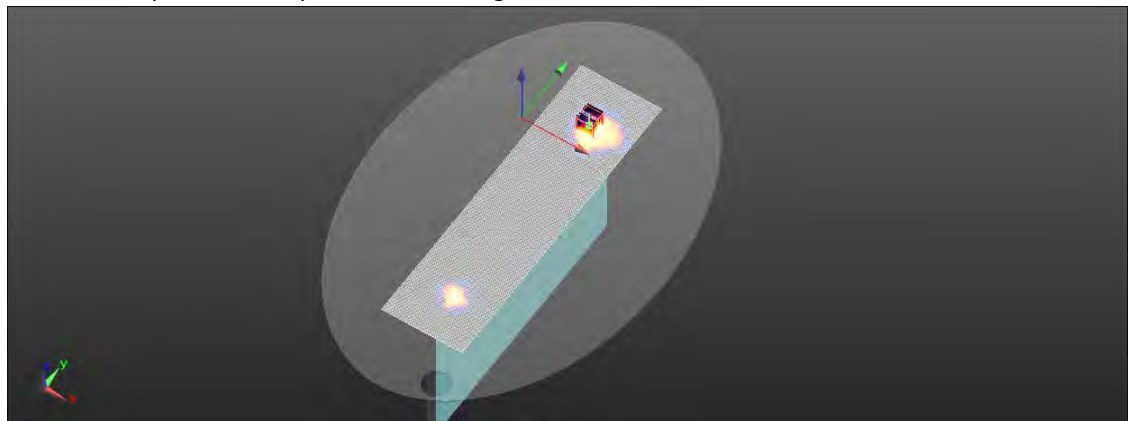
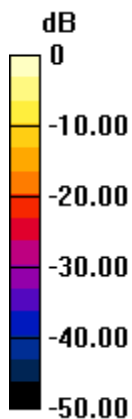
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.097 W/kg

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

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

Maximum value of SAR (measured) = 0.662 W/kg



0 dB = 0.662 W/kg = -1.79 dBW/kg

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Date: 2024/4/18

ID: 021

Report No. :TESA2403000149ES

WLAN 802.11ac(80M) 5.8G_Body_Edge Front_CH 155_0mm_MIMO

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle=1:1.004

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 35.929$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5775 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x411x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

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

Reference Value = 6.403 V/m; Power Drift = -0.08 dB

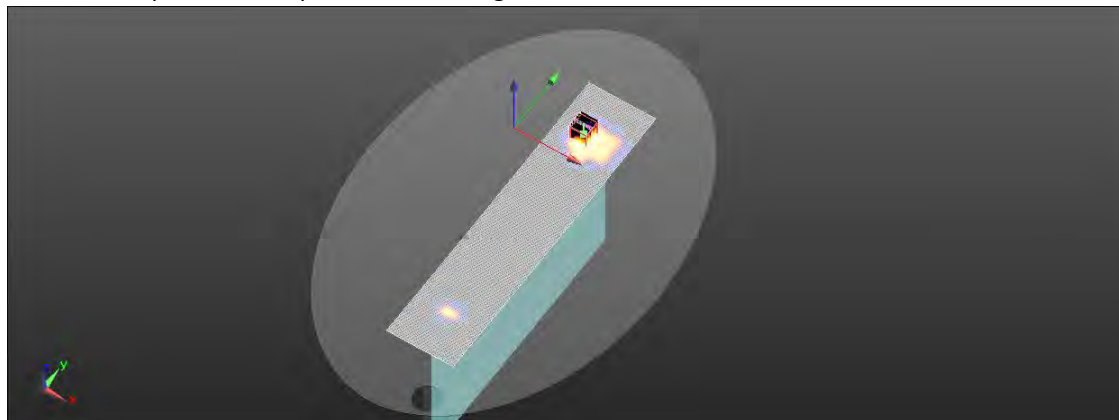
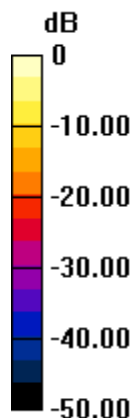
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.115 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg = -1.27 dBW/kg

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Date: 2024/4/18

ID: 022

Report No. :TESA2403000149ES

WLAN 802.11ac(160M) 5.9G_Body_Edge Front_CH 163_0mm_MIMO

Communication System: WLAN; Frequency: 5815 MHz;Duty Cycle=1:1.009

Medium parameters used: $f = 5815 \text{ MHz}$; $\sigma = 5.222 \text{ S/m}$; $\epsilon_r = 35.891$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5815 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x411x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 7.291 V/m; Power Drift = -0.07 dB

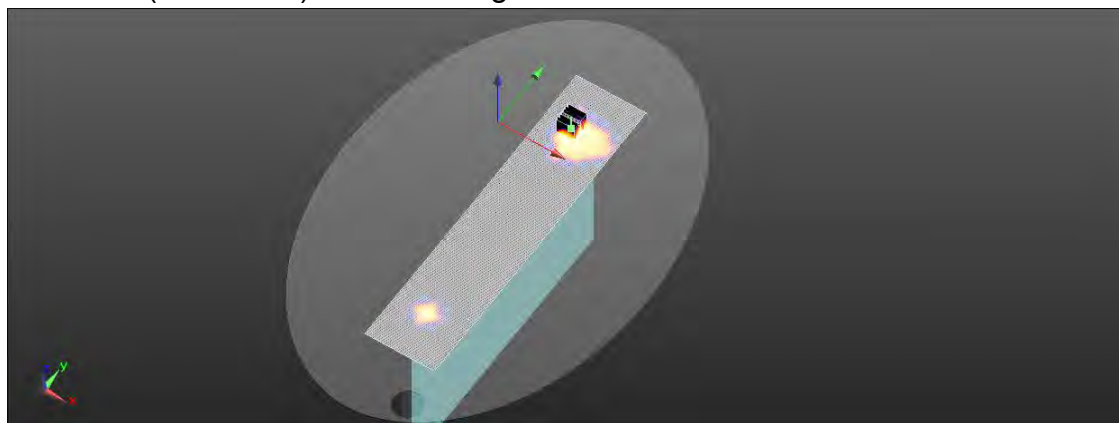
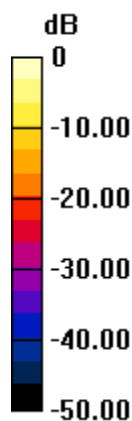
Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.096 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.337 W/kg



0 dB = 0.337 W/kg = -4.73 dBW/kg

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ID: 023

Report No. :TESA2403000149ES

Measurement Report U-NII-5 IEEE 802.11be(320M)_Body_Bottom Surface_CH31_0mm_MIMO

Ambient temperature: 22.3; Liquid temperature: 22.2

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 | 5.64 | 5.703 | 35.334 |

Hardware Setup

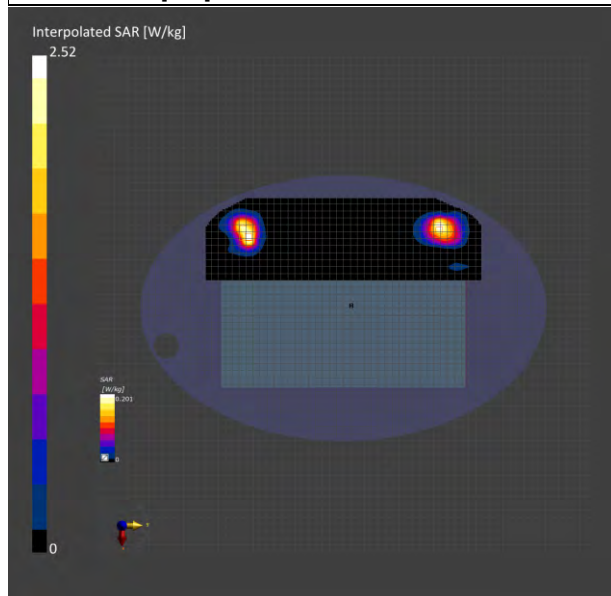
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 0.519 | 0.652 |
| psSAR8g [W/kg] | 0.180 | 0.228 |
| psSAR10g [W/kg] | 0.158 | 0.198 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.55 |
| Power Drift [dB] | 0.01 | -0.14 |
| M2/M1 [%] | | 58.2 |
| Dist 3dB Peak [mm] | | 9.4 |



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Report No. :TESA2403000149ES

Measurement Report U-NII-5 IEEE 802.11be(320M)_Body_Bottom Surface_CH63_0mm_MIMO

Ambient temperature: 22.3; Liquid temperature: 22.2

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 | 5.64 | 5.977 | 35.158 |

Hardware Setup

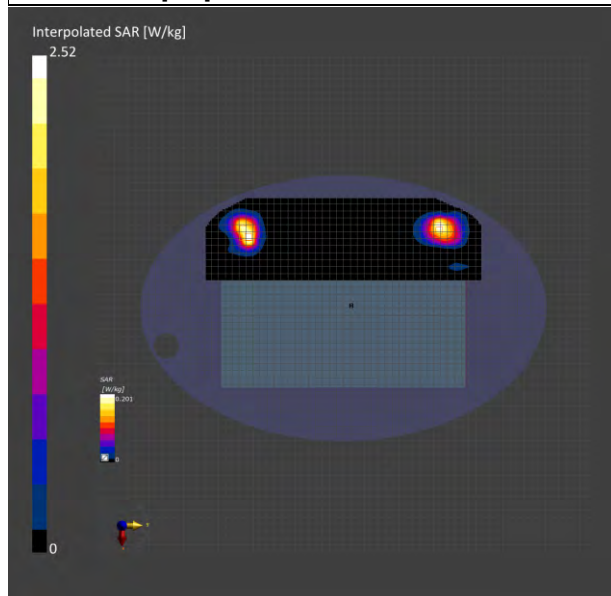
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 0.453 | 0.559 |
| psSAR8g [W/kg] | 0.168 | 0.198 |
| psSAR10g [W/kg] | 0.148 | 0.172 |
| psPDab (4.0cm2, sq) [W/m2] | | 3.95 |
| Power Drift [dB] | -0.07 | -0.02 |
| M2/M1 [%] | | 57.5 |
| Dist 3dB Peak [mm] | | 9.9 |



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ID: 025

Report No. :TESA2403000149ES

Measurement Report U-NII-6 IEEE 802.11be(320M)_Body_Bottom Surface_CH95_0mm_MIMO

Ambient temperature: 22.3; Liquid temperature: 22.2

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 | 6425.0, 95 | 5.64 | 6.06 | 34.878 |

Hardware Setup

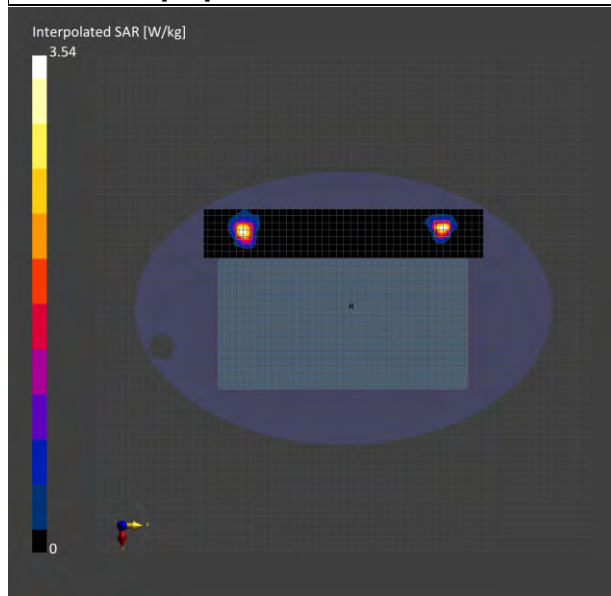
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 0.751 | 0.898 |
| psSAR8g [W/kg] | 0.287 | 0.321 |
| psSAR10g [W/kg] | 0.254 | 0.279 |
| psPDab (4.0cm2, sq) [W/m2] | | 6.42 |
| Power Drift [dB] | -0.17 | -0.11 |
| M2/M1 [%] | | 57.0 |
| Dist 3dB Peak [mm] | | 8.4 |



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Report No. :TESA2403000149ES

Measurement Report U-NII-7 IEEE 802.11be(320M)_Body_Bottom Surface_CH127_0mm_MIMO

Ambient temperature: 22.3; Liquid temperature: 22.2

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 | 5.64 | 6.339 | 34.681 |

Hardware Setup

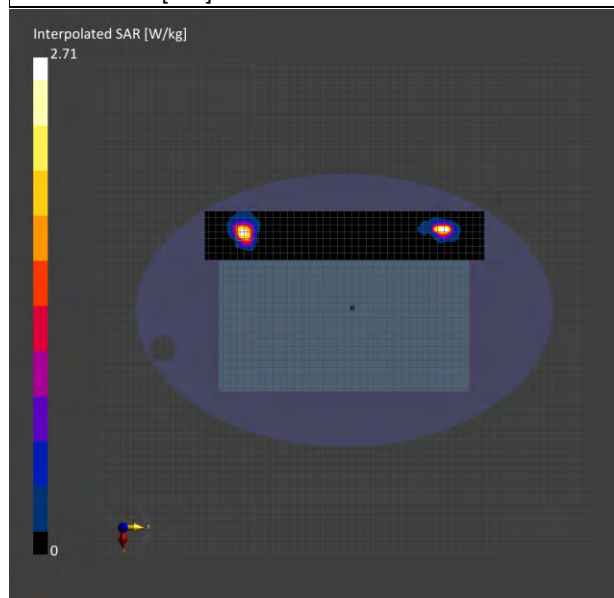
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 0.592 | 0.608 |
| psSAR8g [W/kg] | 0.230 | 0.226 |
| psSAR10g [W/kg] | 0.202 | 0.199 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.52 |
| Power Drift [dB] | -0.14 | -0.07 |
| M2/M1 [%] | | 56.2 |
| Dist 3dB Peak [mm] | | 9.6 |



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ID: 027

Report No. :TESA2403000149ES

Measurement Report U-NII-8 IEEE 802.11be(320M)_Body_Bottom Surface_CH191_0mm_MIMO

Ambient temperature: 22.3; Liquid temperature: 22.2

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 | 5.75 | 6.652 | 34.401 |

Hardware Setup

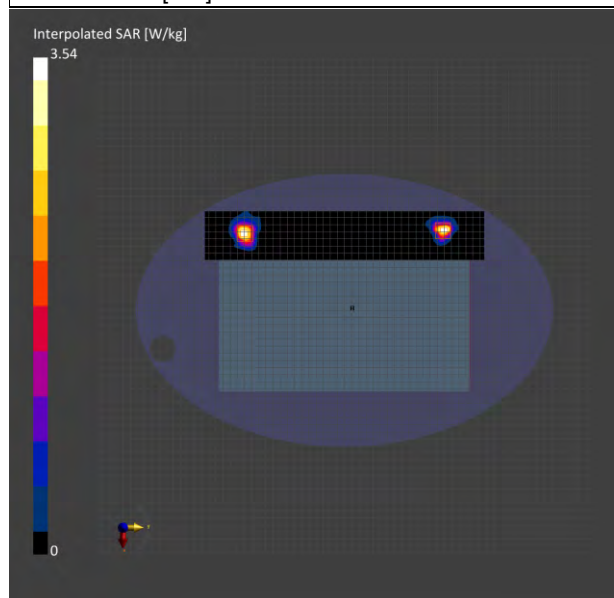
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 0.635 | 0.698 |
| psSAR8g [W/kg] | 0.249 | 0.244 |
| psSAR10g [W/kg] | 0.219 | 0.212 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.88 |
| Power Drift [dB] | -0.14 | -0.12 |
| M2/M1 [%] | | 52.4 |
| Dist 3dB Peak [mm] | | 9.7 |



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Report No. :TESA2403000149ES

Measurement Report U-NII-5 IEEE 802.11be(320M)_Body_Edge Front_CH31_0mm_MIMO

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Frequency [MHZ],Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|---------------------------------|-----------------------------------|----------------------|---------------------------|---------------------|
| Flat, HSL | Edge Front, 0.00 | 6105.0, 31 | 5.64 | 5.528 | 35.167 |

Hardware Setup

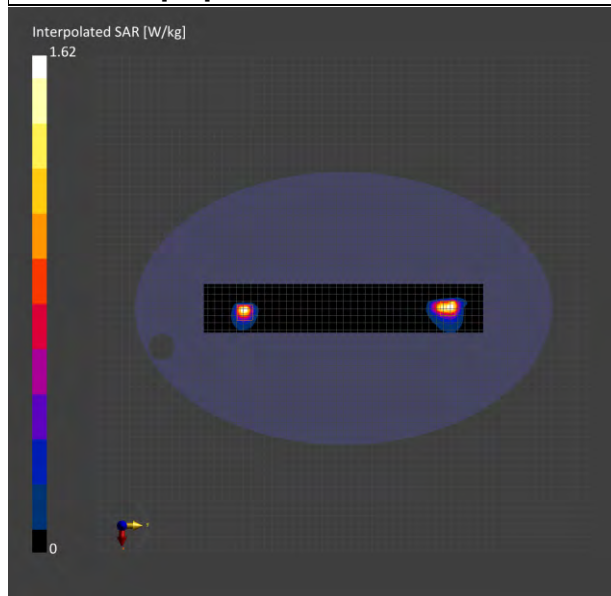
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 0.335 | 0.356 |
| psSAR8g [W/kg] | 0.133 | 0.117 |
| psSAR10g [W/kg] | 0.118 | 0.101 |
| psPDab (4.0cm2, sq) [W/m2] | | 2.33 |
| Power Drift [dB] | -0.06 | 0.02 |
| M2/M1 [%] | | 59.9 |
| Dist 3dB Peak [mm] | | 8.8 |



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ID: 029

Report No. :TESA2403000149ES

Measurement Report U-NII-5 IEEE 802.11be(320M)_Body_Edge Front_CH63_0mm_MIMO

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Frequency [MHZ],Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|---------------------------------|-----------------------------------|----------------------|---------------------------|---------------------|
| Flat, HSL | Edge Front, 0.00 | 6265.0, 63 | 5.64 | 5.945 | 35.065 |

Hardware Setup

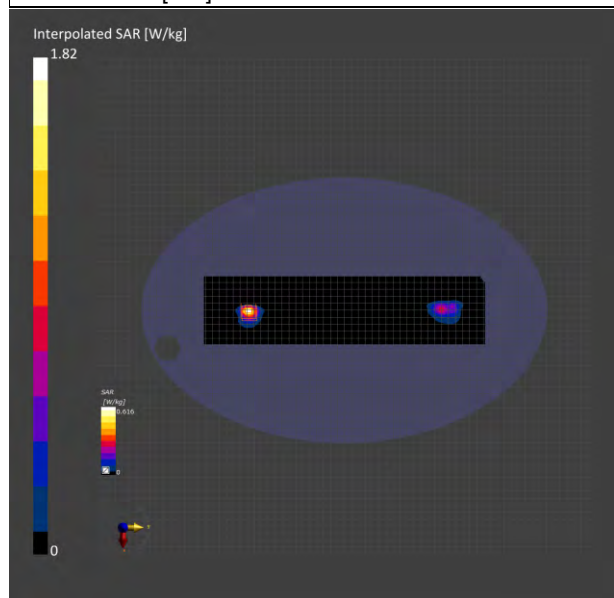
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 0.411 | 0.397 |
| psSAR8g [W/kg] | 0.136 | 0.133 |
| psSAR10g [W/kg] | 0.118 | 0.115 |
| psPDab (4.0cm2, sq) [W/m2] | | 2.66 |
| Power Drift [dB] | -0.11 | 0.15 |
| M2/M1 [%] | | 57.5 |
| Dist 3dB Peak [mm] | | 7.8 |



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Measurement Report U-NII-6 IEEE 802.11be(320M)_Body_Edge Front_CH95_0mm_MIMO

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Frequency [MHZ],Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|---------------------------------|-----------------------------------|----------------------|---------------------------|---------------------|
| Flat, HSL | Edge Front, 0.00 | 6425.0, 95 | 5.64 | 6.032 | 34.851 |

Hardware Setup

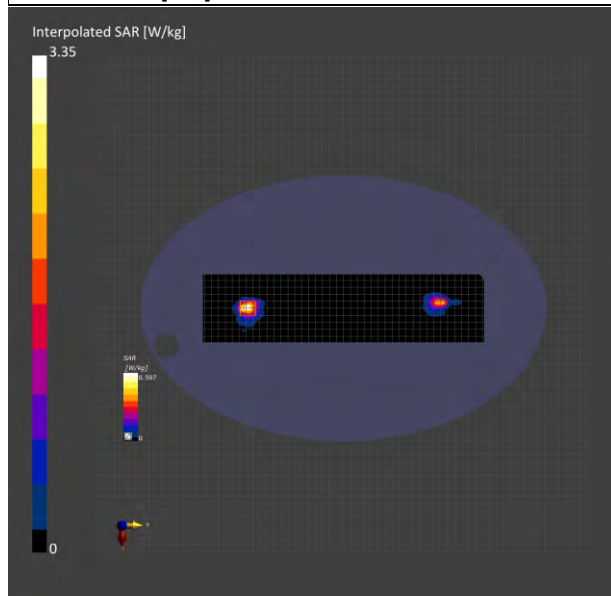
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 0.641 | 0.714 |
| psSAR8g [W/kg] | 0.227 | 0.247 |
| psSAR10g [W/kg] | 0.198 | 0.214 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.94 |
| Power Drift [dB] | 0.15 | -0.13 |
| M2/M1 [%] | | 56.3 |
| Dist 3dB Peak [mm] | | 9.1 |



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Report No. :TESA2403000149ES

Measurement Report U-NII-7 IEEE 802.11be(320M)_Body_Edge Front_CH127_0mm_MIMO

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Frequency [MHZ],Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|---------------------------------|-----------------------------------|----------------------|---------------------------|---------------------|
| Flat, HSL | Edge Front, 0.00 | 6585.0, 127 | 5.64 | 6.247 | 34.585 |

Hardware Setup

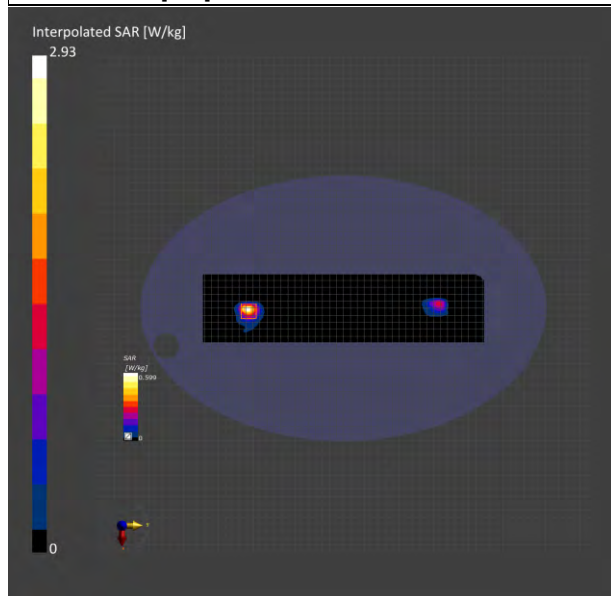
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 0.594 | 0.602 |
| psSAR8g [W/kg] | 0.208 | 0.213 |
| psSAR10g [W/kg] | 0.181 | 0.185 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.26 |
| Power Drift [dB] | -0.05 | -0.15 |
| M2/M1 [%] | | 56.1 |
| Dist 3dB Peak [mm] | | 9.4 |



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ID: 032

Report No. :TESA2403000149ES

Measurement Report U-NII-8 IEEE 802.11be(320M)_Body_Edge Front_CH191_0mm_MIMO

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Frequency [MHZ],Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|---------------------------------|-----------------------------------|----------------------|---------------------------|---------------------|
| Flat, HSL | Edge Front, 0.00 | 6905.0, 191 | 5.75 | 6.552 | 34.371 |

Hardware Setup

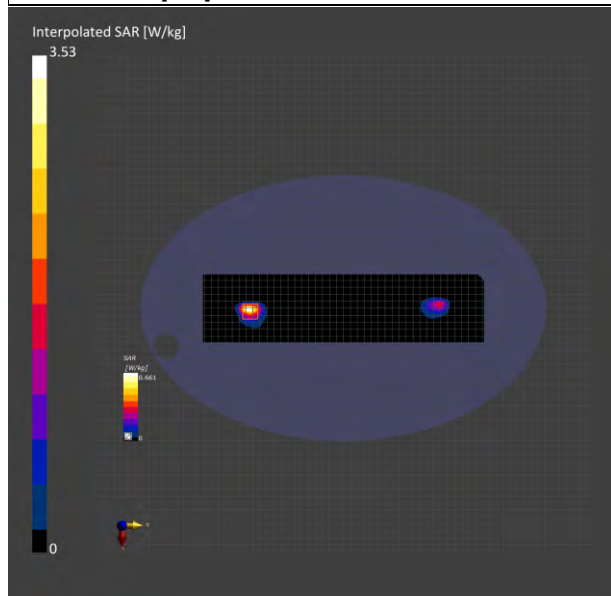
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------------|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 68.0 x 391.0 | 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 | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 0.729 | 0.670 |
| psSAR8g [W/kg] | 0.263 | 0.258 |
| psSAR10g [W/kg] | 0.231 | 0.226 |
| psPDab (4.0cm2, sq) [W/m2] | | 4.68 |
| Power Drift [dB] | -0.10 | 0.07 |
| M2/M1 [%] | | 52.9 |
| Dist 3dB Peak [mm] | | 9.6 |



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13 PD MEASUREMENT RESULTS

ID: 033

Report No. :TESA2403000149ES

Measurement Report_Bottom Surface, U-NII-5, MIMO

IEEE 802.11be(320MHz, MCS0, 99pc duty cycle), Channel 31 (6105.0 MHz)

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Conversion Factor |
|-----------------|------------------------------|-------------------|
| 5G | Bottom Surface, 2.00 | 1.0 |

Hardware Setup

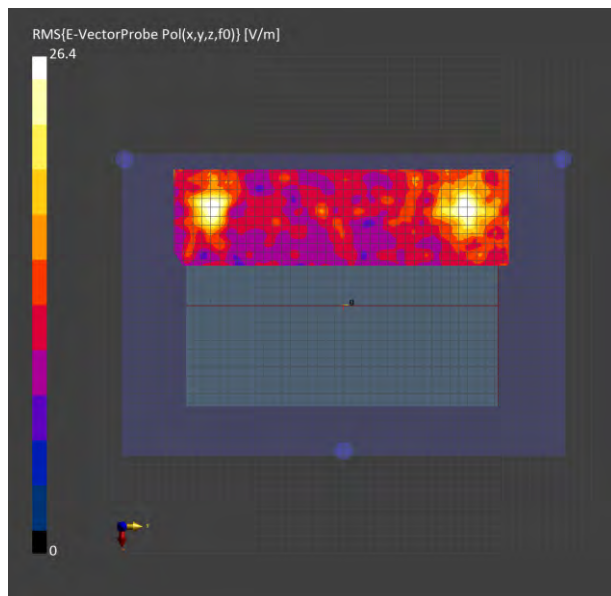
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|---------------|--------|---------------------------------------|-------------------------|
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 90.0 x 380.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-16 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 3.55 |
| psPDtot+ [W/m ²] | 4.29 |
| psPDmod+ [W/m ²] | 4.78 |
| E _{max} [V/m] | 53.3 |
| Power Drift [dB] | -0.07 |



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ID: 034

Report No. :TESA2403000149ES

Measurement Report_Bottom Surface, U-NII-5, MIMO

IEEE 802.11be(320MHz, MCS0, 99pc duty cycle), Channel 63 (6265.0 MHz)

Exposure Conditions

| | | |
|-----------------|------------------------------|-------------------|
| Phantom Section | Position, Test Distance [mm] | Conversion Factor |
| 5G | Bottom Surface, 2.00 | 1.0 |

Hardware Setup

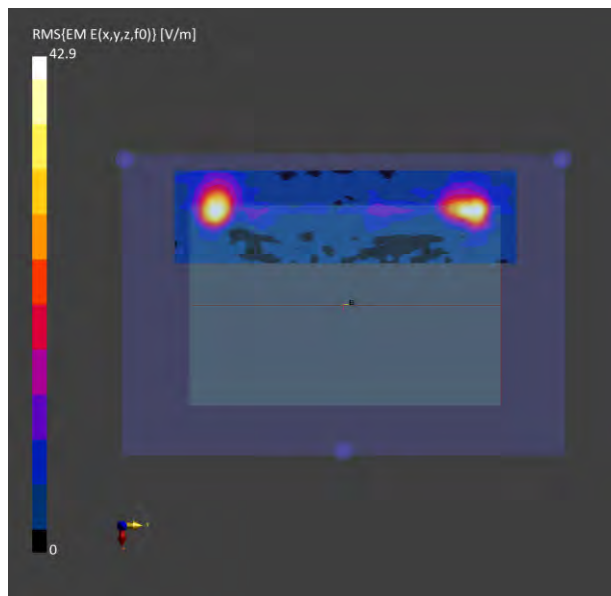
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 100.0 x 380.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 1.99 |
| psPDtot+ [W/m ²] | 2.40 |
| psPDmod+ [W/m ²] | 2.61 |
| E _{max} [V/m] | 42.9 |
| Power Drift [dB] | 0.12 |



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ID: 035

Report No. :TESA2403000149ES

Measurement Report_Bottom Surface, U-NII-6, MIMO

IEEE 802.11be(320MHz, MCS0, 99pc duty cycle), Channel 95 (6425.0 MHz)

Exposure Conditions

| | | |
|-----------------|------------------------------|-------------------|
| Phantom Section | Position, Test Distance [mm] | Conversion Factor |
| 5G | Bottom Surface, 2.00 | 1.0 |

Hardware Setup

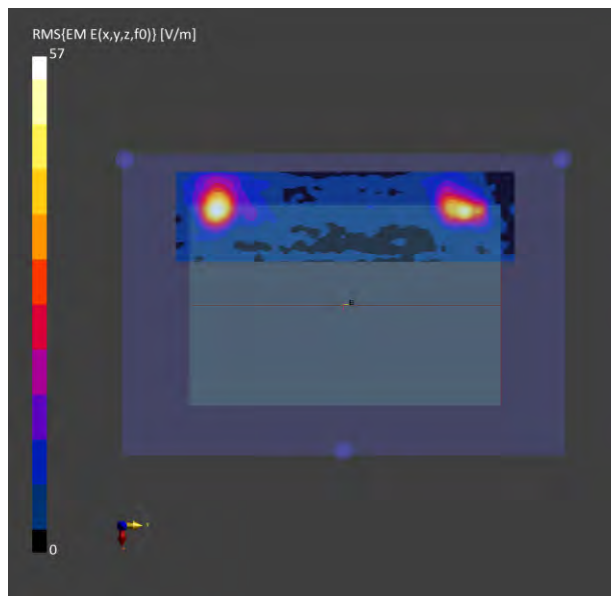
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 100.0 x 380.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 3.53 |
| psPDtot+ [W/m ²] | 4.34 |
| psPDmod+ [W/m ²] | 4.75 |
| E _{max} [V/m] | 57.0 |
| Power Drift [dB] | -0.07 |



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ID: 036

Report No. :TESA2403000149ES

Measurement Report_Bottom Surface, U-NII-7, MIMO

IEEE 802.11be(320MHz, MCS0, 99pc duty cycle), Channel 127 (6585.0 MHz)

Exposure Conditions

| | | |
|-----------------|------------------------------|-------------------|
| Phantom Section | Position, Test Distance [mm] | Conversion Factor |
| 5G | Bottom Surface, 2.00 | 1.0 |

Hardware Setup

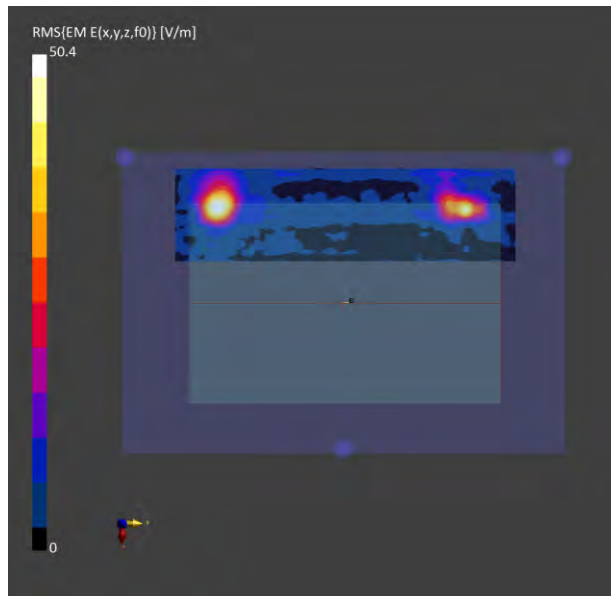
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 100.0 x 380.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 3.03 |
| psPDtot+ [W/m ²] | 3.63 |
| psPDmod+ [W/m ²] | 3.92 |
| E _{max} [V/m] | 50.4 |
| Power Drift [dB] | -0.15 |



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ID: 037

Report No. :TESA2403000149ES

Measurement Report_Bottom Surface, U-NII-8, MIMO

IEEE 802.11be(320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)

Exposure Conditions

| | | |
|-----------------|------------------------------|-------------------|
| Phantom Section | Position, Test Distance [mm] | Conversion Factor |
| 5G | Bottom Surface, 2.00 | 1.0 |

Hardware Setup

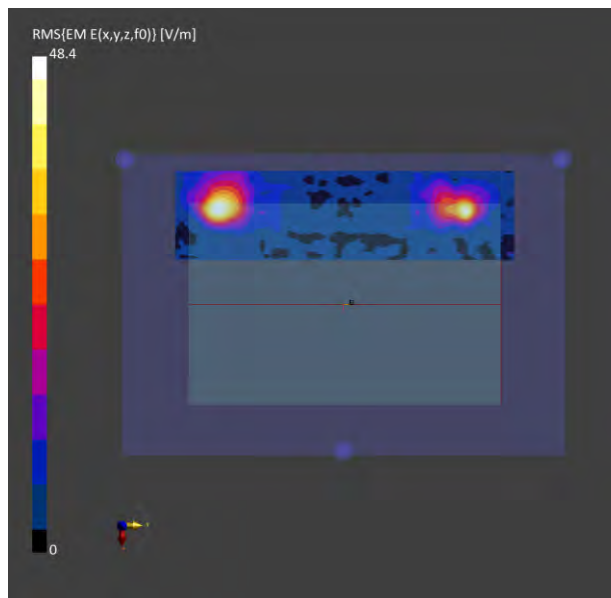
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 100.0 x 380.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 3.05 |
| psPDtot+ [W/m ²] | 3.51 |
| psPDmod+ [W/m ²] | 3.79 |
| E _{max} [V/m] | 68.4 |
| Power Drift [dB] | 0.09 |



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14 SAR SYSTEM CHECK RESULTS

Date: 2024/4/16

Report No. : TESA2403000149ES

Dipole 2450 MHz_SN:728

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.789$ S/m; $\epsilon_r = 40.017$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(7.74, 7.66, 7.62) @ 2450 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 18.1 W/kg

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

Reference Value = 97.14 V/m; Power Drift = 0.13 dB

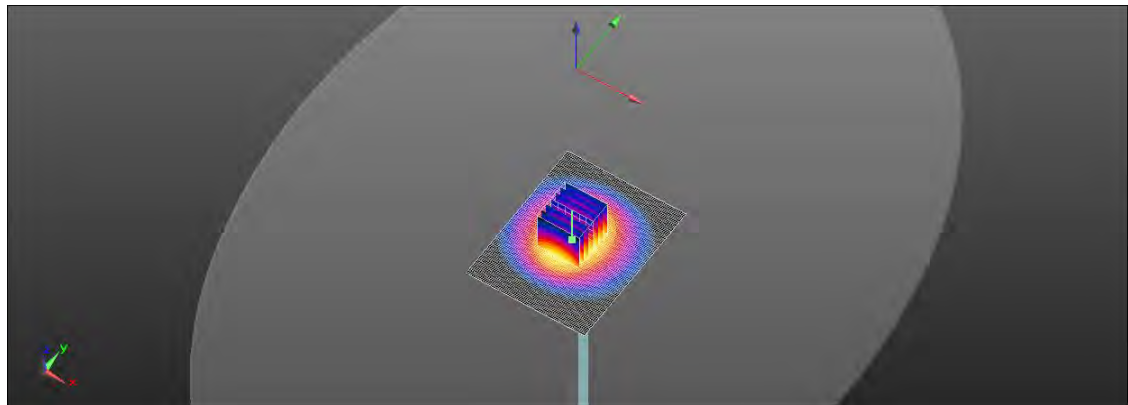
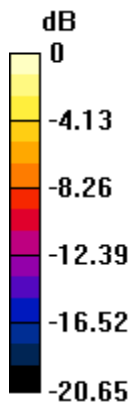
Peak SAR (extrapolated) = 23.0 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.46 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

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



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2024/4/17

Report No. : TESA2403000149ES**Dipole 5250 MHz_SN:1023**

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.676$ S/m; $\epsilon_r = 36.847$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5250 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 69.57 V/m; Power Drift = 0.04 dB

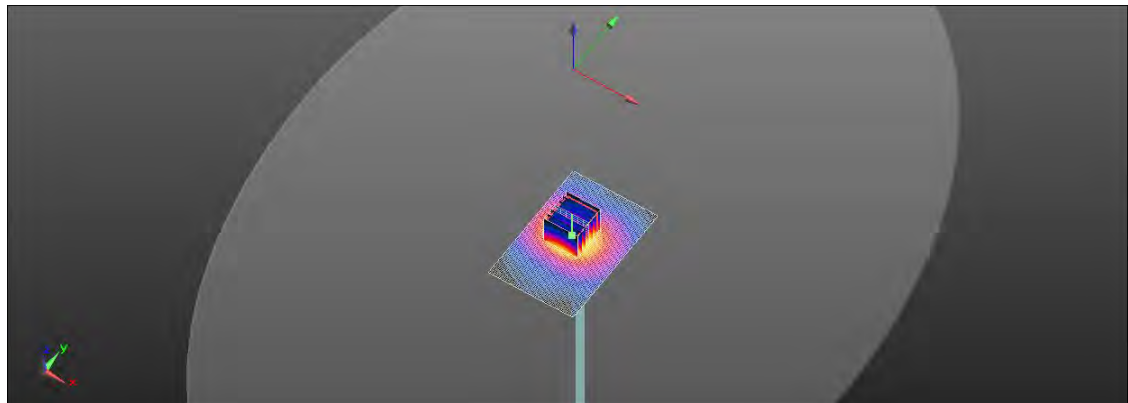
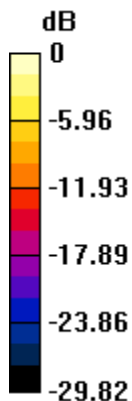
Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.22 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.1%

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



0 dB = 16.4 W/kg = 12.15 dBW/kg

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Date: 2024/4/18

Report No. : TESA2403000149ES**Dipole 5250 MHz_SN:1023**

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.609$ S/m; $\epsilon_r = 36.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.78, 5.7, 5.67) @ 5250 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 70.86 V/m; Power Drift = -0.01 dB

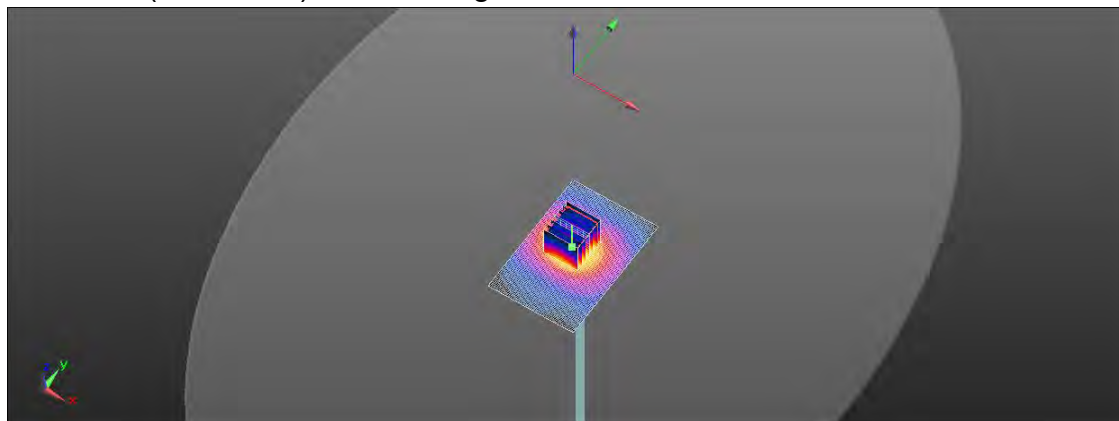
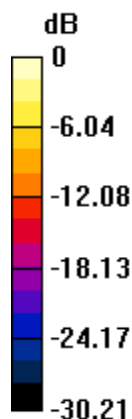
Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.25 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 16.7 W/kg



0 dB = 16.7 W/kg = 12.22 dBW/kg

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Date: 2024/4/17

Report No. : TESA2403000149ES

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.104$ S/m; $\epsilon_r = 36.395$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.04, 4.93, 4.88) @ 5600 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

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

Reference Value = 72.28 V/m; Power Drift = 0.04 dB

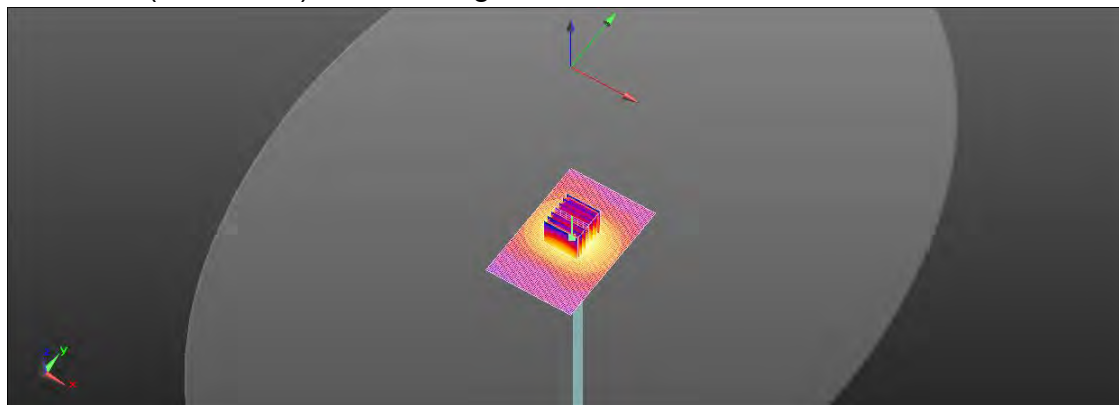
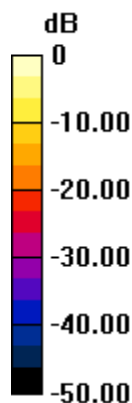
Peak SAR (extrapolated) = 37.7 W/kg

SAR(1 g) = 8.71 W/kg; SAR(10 g) = 2.43 W/kg

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

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

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg

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Date: 2024/4/18

Report No. : TESA2403000149ES**Dipole 5600 MHz_SN:1023**

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.949$ S/m; $\epsilon_r = 36.296$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.04, 4.93, 4.88) @ 5600 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 69.23 V/m; Power Drift = 0.12 dB

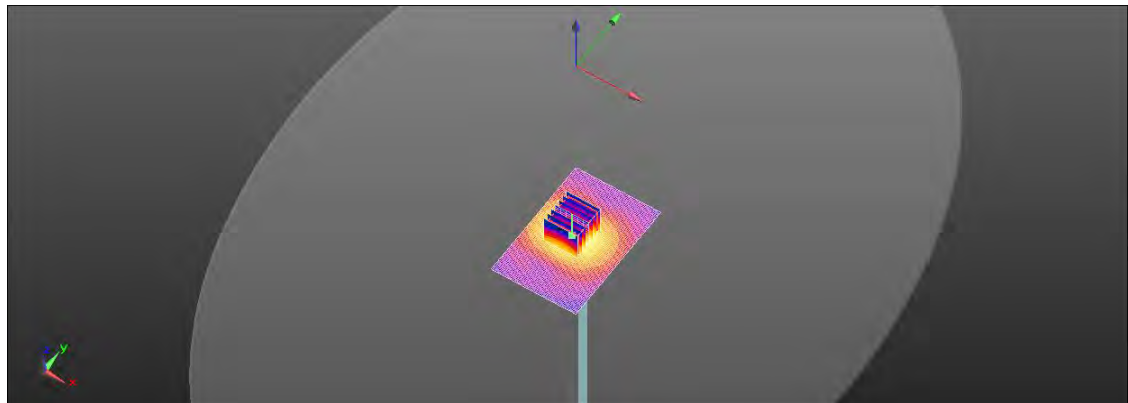
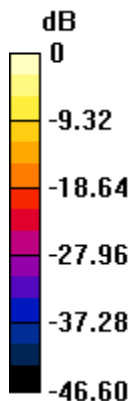
Peak SAR (extrapolated) = 37.3 W/kg

SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.39 W/kg

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

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

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



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2024/4/17

Report No. : TESA2403000149ES

Dipole 5750 MHz_SN:1023

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.302$ S/m; $\epsilon_r = 36.11$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5750 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

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

Reference Value = 67.68 V/m; Power Drift = -0.03 dB

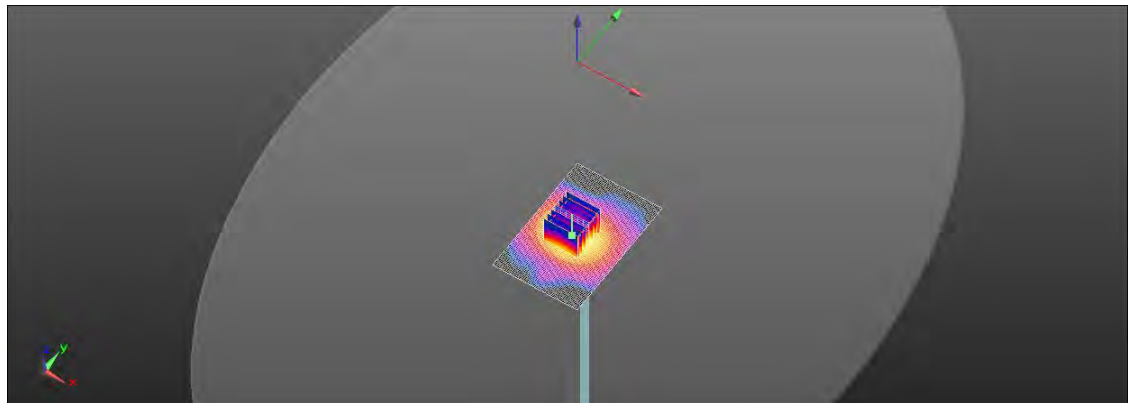
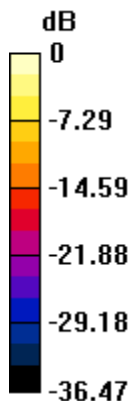
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2024/4/18

Report No. : TESA2403000149ES

Dipole 5750 MHz_SN:1023

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.186$ S/m; $\epsilon_r = 36.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.19, 5.1, 5.07) @ 5750 MHz; Calibrated: 2024/2/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2024/1/17
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

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

Reference Value = 68.53 V/m; Power Drift = 0.08 dB

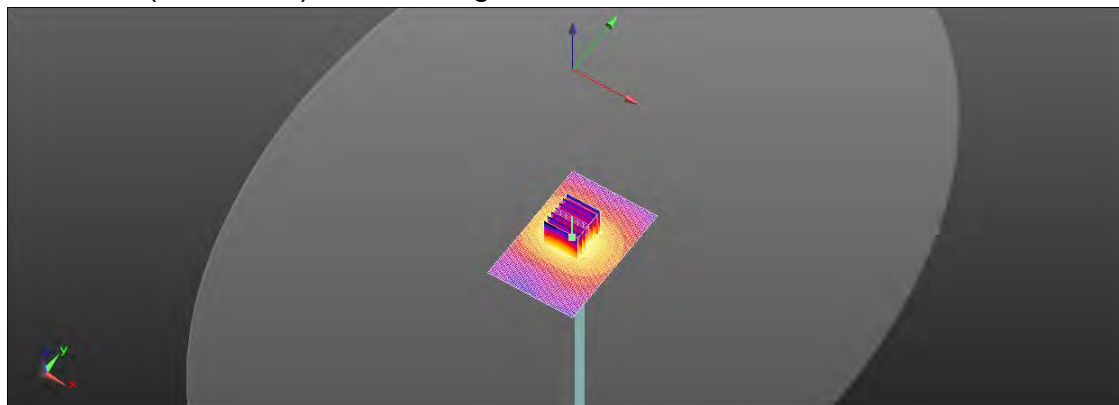
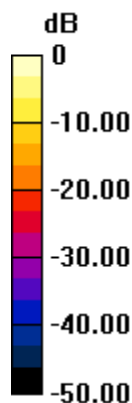
Peak SAR (extrapolated) = 36.0 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.27 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg

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Report No. : TESA2403000149ES

Measurement Report

Dipole_D6500-SN:1006

Ambient temperature: 22.3; Liquid temperature: 22.2

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 5.00 | 5.64 | 6.256 | 34.77 |

Hardware Setup

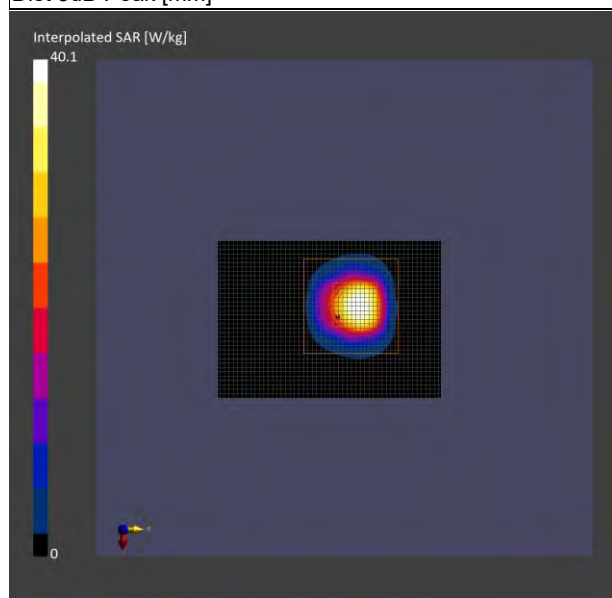
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---------|-----------------------------|-------------------------|
| ELI | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 36.0 x 51.0 | 28.0 x 28.0 x 24.0 |
| Grid Steps [mm] | 6.0 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|----------------------------|------------|------------|
| Date | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 25.3 | 29.1 |
| psSAR8g [W/kg] | 6.33 | 6.53 |
| psSAR10g [W/kg] | 5.23 | 5.35 |
| psPDab (4.0cm2, sq) [W/m2] | | 131 |
| Power Drift [dB] | -0.11 | -0.02 |
| M2/M1 [%] | | 50.8 |
| Dist 3dB Peak [mm] | | 6.8 |



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Report No. : TESA2403000149ES

Measurement Report

Dipole_D6500-SN:1006

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 5.00 | 5.64 | 6.177 | 34.7 |

Hardware Setup

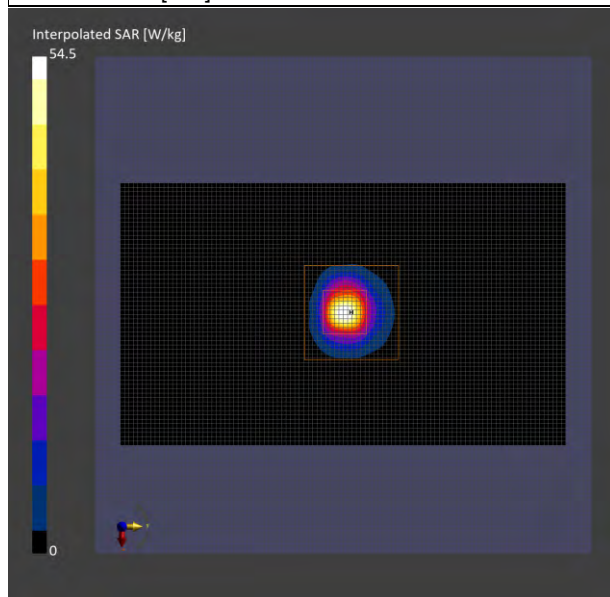
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---------|-----------------------------|-------------------------|
| ELI | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 60.0 x 102.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 6.0 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|----------------------------|------------|------------|
| Date | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 27.4 | 29.9 |
| psSAR8g [W/kg] | 6.37 | 6.64 |
| psSAR10g [W/kg] | 5.26 | 5.45 |
| psPDab (4.0cm2, sq) [W/m2] | | 133 |
| Power Drift [dB] | 0.02 | 0.06 |
| M2/M1 [%] | | 50.7 |
| Dist 3dB Peak [mm] | | 5.6 |



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Report No. : TESA2403000149ES

Measurement Report

Dipole_D7000-SN:1007

Ambient temperature: 22.3; Liquid temperature: 22.2

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 5.00 | 5.75 | 6.792 | 34.342 |

Hardware Setup

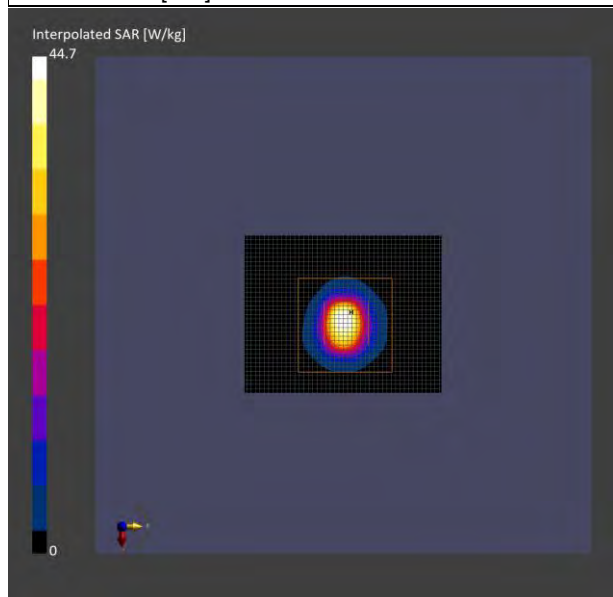
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---------|-----------------------------|-------------------------|
| ELI | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 36.0 x 45.0 | 28.0 x 28.0 x 24.0 |
| Grid Steps [mm] | 6.0 x 7.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|----------------------------|------------|------------|
| Date | 2024-04-19 | 2024-04-19 |
| psSAR1g [W/kg] | 25.7 | 26.8 |
| psSAR8g [W/kg] | 5.71 | 5.75 |
| psSAR10g [W/kg] | 4.70 | 4.71 |
| psPDab (4.0cm2, sq) [W/m2] | | 120 |
| Power Drift [dB] | 0.06 | 0.01 |
| M2/M1 [%] | | 48.4 |
| Dist 3dB Peak [mm] | | 5.8 |



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Report No. : TESA2403000149ES

Measurement Report

Dipole_D7000-SN:1007

Ambient temperature: 22.7; Liquid temperature: 22.5

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 5.00 | 5.75 | 6.651 | 34.149 |

Hardware Setup

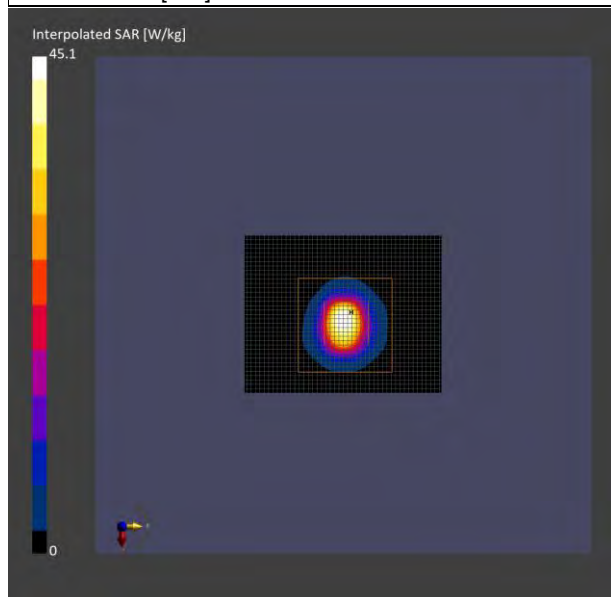
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|---------|-----------------------------|-------------------------|
| ELI | EX3DV4 - SN7642, 2024-02-21 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 36.0 x 45.0 | 28.0 x 28.0 x 24.0 |
| Grid Steps [mm] | 6.0 x 7.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|----------------------------|------------|------------|
| Date | 2024-04-20 | 2024-04-20 |
| psSAR1g [W/kg] | 25.9 | 27.1 |
| psSAR8g [W/kg] | 5.75 | 5.80 |
| psSAR10g [W/kg] | 4.74 | 4.75 |
| psPDab (4.0cm2, sq) [W/m2] | | 116 |
| Power Drift [dB] | 0.05 | 0.09 |
| M2/M1 [%] | | 48.4 |
| Dist 3dB Peak [mm] | | 6.4 |



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15 PD SYSTEM CHECK RESULTS

Report No. : TESA2043000149ES

Measurement Report

5G Verification Source 10GHz-SN:1070

Exposure Conditions

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

Hardware Setup

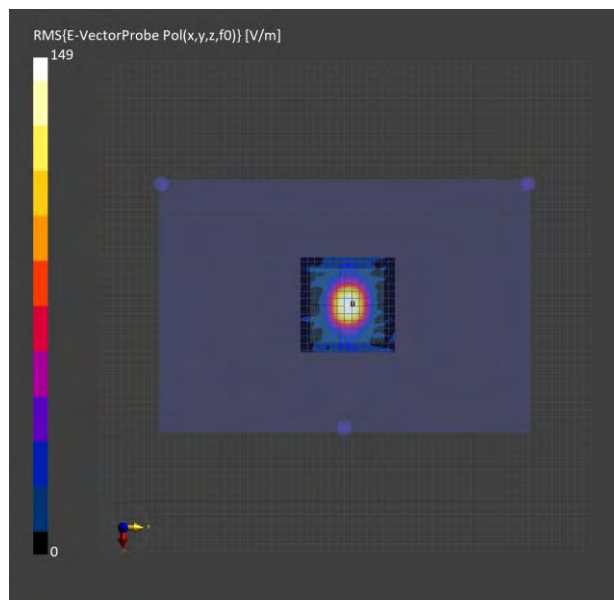
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - xxxx | Air - | EUmmWV3 - SN9399_F1-55GHz, 2024-01-23 | DAE4 Sn1719, 2024-01-17 |

Scans Setup

| | |
|---------------------|---------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 120.0 x 120.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0 |

Measurement Results

| | |
|------------------------------|------------|
| Scan Type | 5G Scan |
| Date | 2024-04-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 51.6 |
| psPDtot+ [W/m ²] | 51.8 |
| psPDmod+ [W/m ²] | 52.6 |
| E _{max} [V/m] | 148 |
| Power Drift [dB] | -0.03 |



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16 APPENDIXES

Refer to separated files for the following appendixes.

16.1 SAR_Appendix A Photographs

16.2 SAR_Appendix B DAE & Probe Cal. Certificate

16.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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