

RF Exposure report



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

Product Name Notebook Computer
Brand Name acer
Model No. N23Q21
Applicant Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID HLZQCNCM865
Date of EUT Receipt Jul. 04, 2023
Date of Test(s) Jul. 20, 2023 ~ Jul. 24, 2023
Date of Issue Jul. 31, 2023

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Bond Tsai	Approved By / John Yeh

Date: Jul. 31, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2307000392E5	00	Initial creation of document	Jul. 31, 2023	Cindy Chou	

Note:

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

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

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

IEC TR 63170:2018

IEC 62479:2010

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1.2 Description of EUT

Product Name	Notebook Computer	
Brand Name	<i>acer</i>	
Model No.	N23Q21	
FCC ID	HLZQCNCM865	
Integrated WLAN Module	Brand Name: Qualcomm Model Name: QCNCM865	
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 5.2	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)	0.52	N/A	N/A
2.4G WLAN	0.57	N/A	N/A
5G WLAN	0.25	N/A	N/A
6G WLAN	0.11	0.86	0.92

1.4 Antenna Information

Vendor	WNC									
Antenna	Main									
Part Number	DQ6U15GAQ00 (81EABU15.GAQ)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.34	2.73	2.79	2.82	2.88	2.88	2.95	2.78	2.98	2.93
Antenna	Aux									
Part Number	DQ6U15GAQ00 (81EABU15.GAQ)									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.08	2.83	2.83	2.93	2.98	2.90	2.92	2.83	2.87	2.88
Note: Antenna information is provided by the applicant.										

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

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

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

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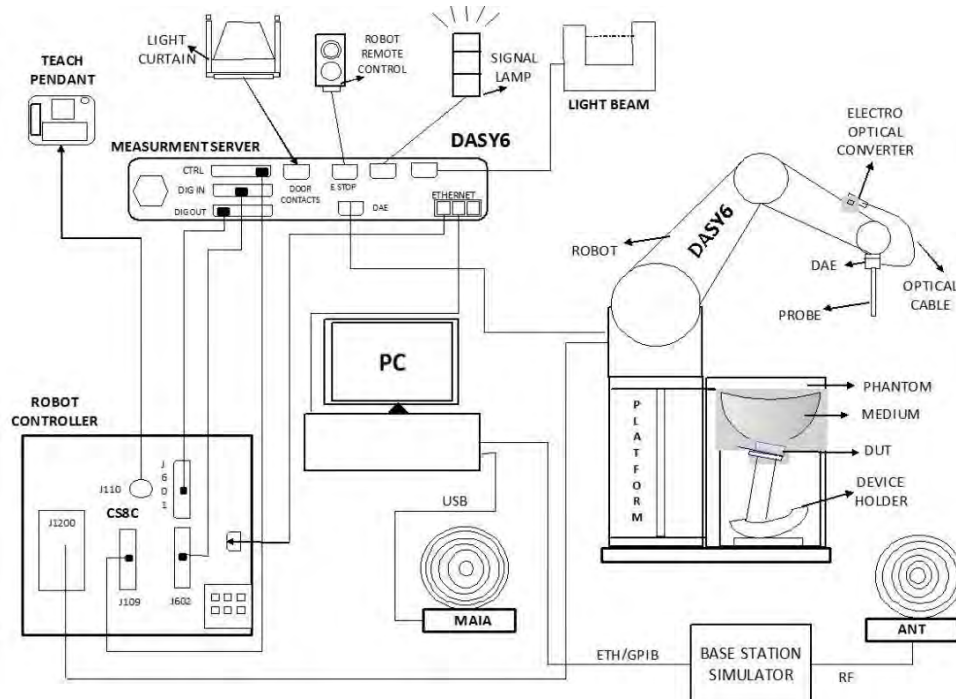
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2.2 SAR System

Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

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

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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 varies kind of notebooks.
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Device Holder

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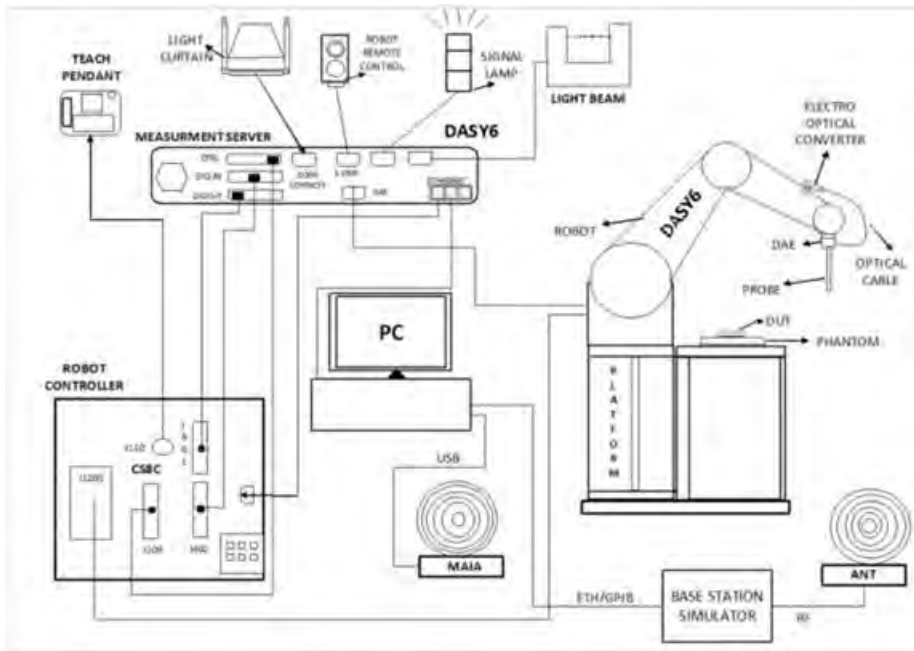
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2.3 PD system

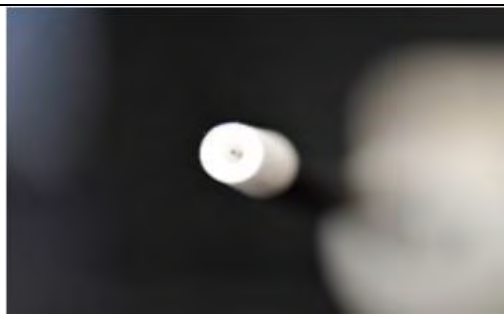
Block Diagram (DASY6)

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



EUmmWVx probe

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

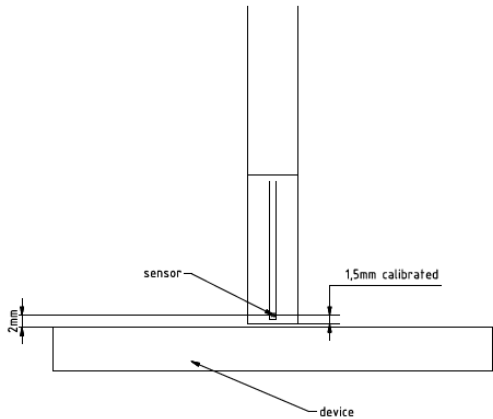


Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.

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

mmWave Phantom

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

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear 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 (DAKS-3.5)

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

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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	Liquid Temp. (°C)	Ambient Temp (°C)
2402	39.282	1.757	40.232	1.839	2.42%	4.64%	± 5%	Jul. 20, 2023	21.3	22.1
2412	39.265	1.766	40.215	1.848	2.42%	4.62%	± 5%	Jul. 20, 2023	21.3	22.1
2437	39.222	1.788	40.170	1.870	2.42%	4.56%	± 5%	Jul. 20, 2023	21.3	22.1
2441	39.215	1.792	40.163	1.874	2.42%	4.57%	± 5%	Jul. 20, 2023	21.3	22.1
2450	39.200	1.800	40.147	1.882	2.42%	4.56%	± 5%	Jul. 20, 2023	21.3	22.1
2462	39.184	1.813	40.132	1.893	2.42%	4.42%	± 5%	Jul. 20, 2023	21.3	22.1
2480	39.160	1.832	40.109	1.909	2.42%	4.20%	± 5%	Jul. 20, 2023	21.3	22.1
5180	36.020	4.639	36.956	4.782	2.60%	3.08%	± 5%	Jul. 21, 2023	21.6	22.8
5190	36.010	4.650	36.944	4.793	2.59%	3.09%	± 5%	Jul. 21, 2023	21.6	22.8
5220	35.980	4.680	36.910	4.824	2.58%	3.08%	± 5%	Jul. 21, 2023	21.6	22.8
5230	35.970	4.690	36.898	4.835	2.58%	3.09%	± 5%	Jul. 21, 2023	21.6	22.8
5240	35.960	4.700	36.887	4.845	2.58%	3.09%	± 5%	Jul. 21, 2023	21.6	22.8
5250	35.950	4.710	36.876	4.856	2.58%	3.10%	± 5%	Jul. 21, 2023	21.6	22.8
5260	35.940	4.720	36.864	4.867	2.57%	3.11%	± 5%	Jul. 21, 2023	21.6	22.8
5270	35.930	4.730	36.853	4.877	2.57%	3.11%	± 5%	Jul. 21, 2023	21.6	22.8
5300	35.900	4.760	36.818	4.909	2.56%	3.13%	± 5%	Jul. 21, 2023	21.6	22.8
5310	35.890	4.770	36.807	4.919	2.56%	3.12%	± 5%	Jul. 21, 2023	21.6	22.8
5320	35.880	4.780	36.796	4.930	2.55%	3.14%	± 5%	Jul. 21, 2023	21.6	22.8
5510	35.635	4.976	36.578	5.132	2.65%	3.15%	± 5%	Jul. 21, 2023	21.6	22.8
5600	35.500	5.070	36.476	5.226	2.75%	3.08%	± 5%	Jul. 21, 2023	21.6	22.8
5670	35.430	5.140	36.396	5.299	2.73%	3.09%	± 5%	Jul. 21, 2023	21.6	22.8
5710	35.390	5.180	36.350	5.341	2.71%	3.11%	± 5%	Jul. 21, 2023	21.6	22.8
5745	35.355	5.215	36.310	5.378	2.70%	3.13%	± 5%	Jul. 21, 2023	21.6	22.8
5750	35.350	5.220	36.304	5.383	2.70%	3.12%	± 5%	Jul. 21, 2023	21.6	22.8
5755	35.345	5.225	36.298	5.389	2.70%	3.14%	± 5%	Jul. 21, 2023	21.6	22.8
5785	35.315	5.255	36.264	5.420	2.69%	3.14%	± 5%	Jul. 21, 2023	21.6	22.8
5825	35.275	5.296	36.218	5.462	2.67%	3.13%	± 5%	Jul. 21, 2023	21.6	22.8
5845	35.255	5.317	36.196	5.484	2.67%	3.14%	± 5%	Jul. 21, 2023	21.6	22.8
5865	35.235	5.338	36.173	5.505	2.66%	3.12%	± 5%	Jul. 21, 2023	21.6	22.8
5885	35.215	5.359	36.150	5.526	2.66%	3.11%	± 5%	Jul. 21, 2023	21.6	22.8
5955	35.145	5.433	36.070	5.600	2.63%	3.08%	± 5%	Jul. 21, 2023	21.6	22.8
5965	35.135	5.443	36.058	5.611	2.63%	3.08%	± 5%	Jul. 22, 2023	21.5	22.5
6165	34.902	5.675	35.820	5.824	2.63%	2.63%	± 5%	Jul. 22, 2023	21.5	22.5
6175	34.890	5.687	35.808	5.835	2.63%	2.61%	± 5%	Jul. 22, 2023	21.5	22.5
6405	34.614	5.958	35.532	6.082	2.65%	2.08%	± 5%	Jul. 22, 2023	21.5	22.5
6415	34.602	5.970	35.520	6.093	2.65%	2.07%	± 5%	Jul. 22, 2023	21.5	22.5
6445	34.566	6.005	35.484	6.126	2.66%	2.01%	± 5%	Jul. 22, 2023	21.5	22.5
6485	34.518	6.052	35.436	6.169	2.66%	1.93%	± 5%	Jul. 22, 2023	21.5	22.5
6500	34.500	6.070	35.418	6.185	2.66%	1.89%	± 5%	Jul. 22, 2023	21.5	22.5
6535	34.458	6.111	35.376	6.223	2.66%	1.84%	± 5%	Jul. 22, 2023	21.5	22.5
6565	34.422	6.145	35.340	6.256	2.67%	1.80%	± 5%	Jul. 22, 2023	21.5	22.5
6695	34.266	6.296	35.184	6.398	2.68%	1.62%	± 5%	Jul. 22, 2023	21.5	22.5
6855	34.074	6.482	34.992	6.573	2.69%	1.41%	± 5%	Jul. 22, 2023	21.5	22.5
6905	34.014	6.540	34.932	6.628	2.70%	1.35%	± 5%	Jul. 22, 2023	21.5	22.5
7000	33.900	6.650	34.818	6.733	2.71%	1.25%	± 5%	Jul. 22, 2023	21.5	22.5

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3.4 The composition of the tissue simulating liquid:

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

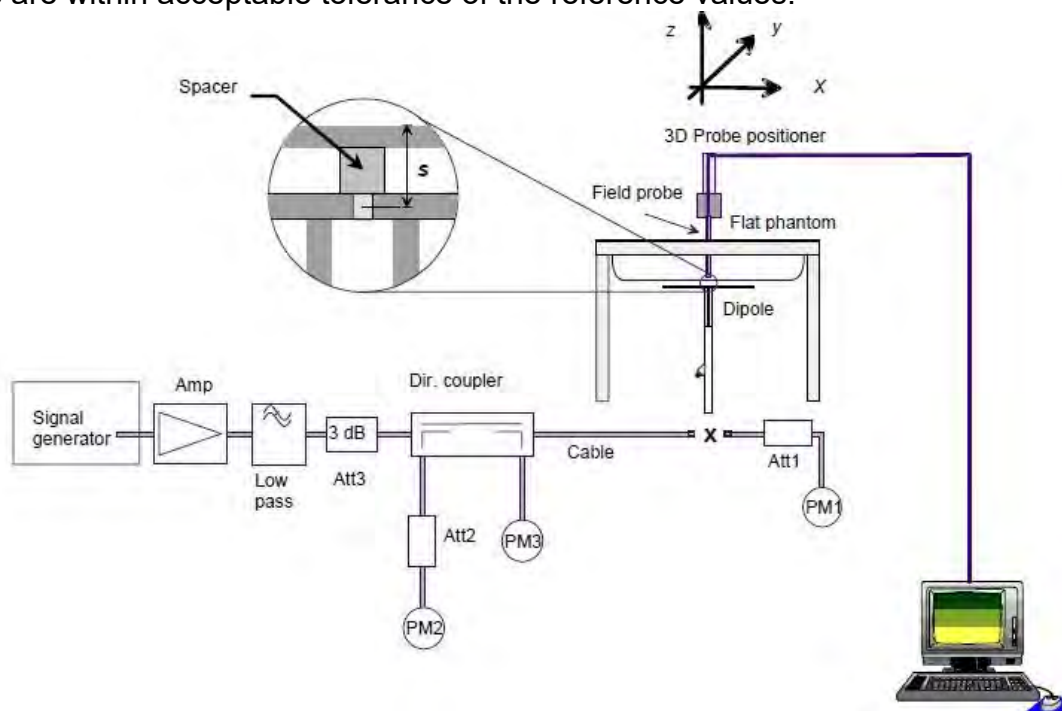
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	727	2450	53.1	13	52	-2.07	± 10%	Jul.20,2023

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	80.5	7.86	78.6	-2.36	± 10%	Jul.21,2023
D5GHzV2	1023	5600	83.8	8.18	81.8	-2.39	± 10%	Jul.21,2023
D5GHzV2	1023	5750	80.4	8.11	81.1	0.87	± 10%	Jul.21,2023

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	292	28.2	282	-3.42	± 10%	Jul.22,2023
D7GHzV2	1007	7000	278	27	270	-2.88	± 10%	Jul.22,2023

Validation Kit	S/N	Frequency (MHz)	1W Target APD (W/m ²) (4cm ²)	pin=100mW Measured APD (W/m ²) (4cm ²)	Normalized to 1W APD (W/m ²) (4cm ²)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	1320	129	1290	-2.27	± 10%	Jul.22,2023
D7GHzV2	1007	7000	1210	119	1190	-1.65	± 10%	Jul.22,2023

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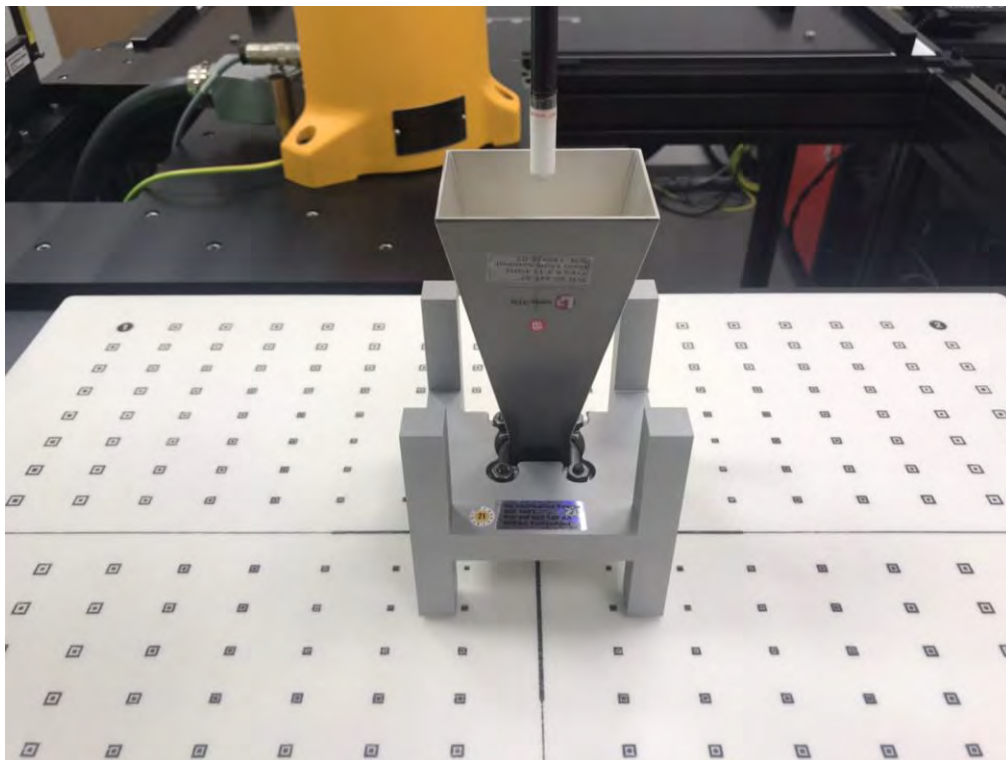
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4 PD SYSTEM VERIFICATION

4.1 System check

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

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



System Verification Setup Photo

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4.2 System check result

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

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9616	1260	10	86.1	48.3	55.6	-0.61	Jul.23,2023

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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 $\leq 100 \text{ MHz}$. 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

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

- **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.
- **WLAN 6GHz:** Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209- 1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- **WLAN 6GHz:** Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ 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.

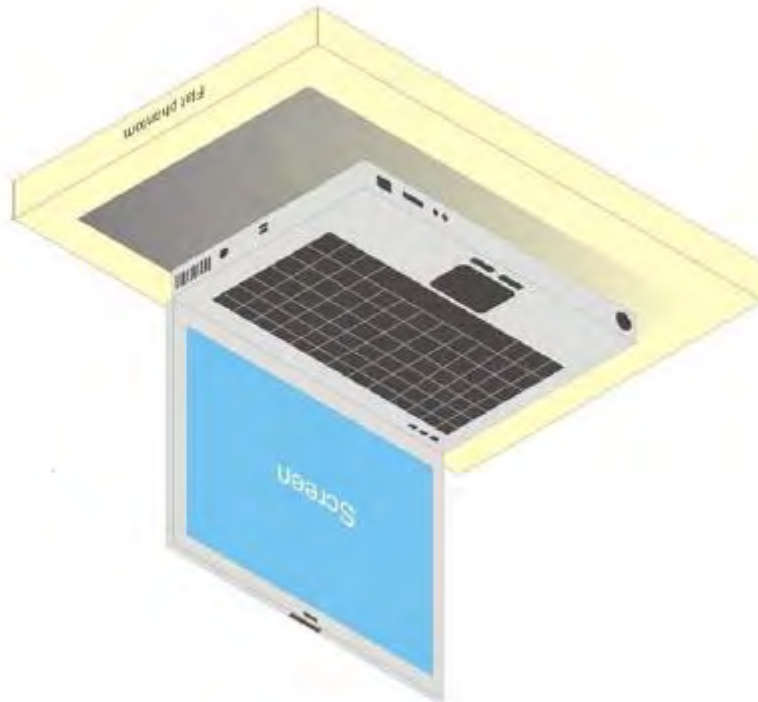


Illustration for Laptop Setup

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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 Electromagnetic Fields,” NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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

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

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

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for 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

Main(Chain2)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.50	18.03
		6	2437		18.00	17.89
		11	2462		18.00	17.76
	802.11g	1	2412	6Mbps	18.00	17.41
		6	2437		18.00	17.32
		11	2462		15.50	15.28
	802.11n20-HT0	1	2412	MCS0	17.50	17.42
		6	2437		18.00	17.67
		11	2462		13.50	13.42
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.31
		6	2437		18.00	17.88
		11	2462		15.00	14.55
	802.11ax20-HE0	1	2412	MCS0	17.50	17.32
		6	2437		18.00	17.57
		11	2462		15.00	14.65
	802.11be20-EHT	1	2412	MCS0	18.00	17.82
		6	2437		19.00	18.64
		11	2462		17.50	17.26
	802.11n40-HT0	3	2422	MCS0	14.50	14.26
		6	2437		16.00	15.78
		9	2452		14.00	13.41
	802.11ac40-VHT0	3	2422	MCS0	14.50	14.25
		6	2437		16.00	15.82
		9	2452		14.00	13.92
	802.11ax40-HE0	3	2422	MCS0	14.50	14.42
		6	2437		16.00	15.72
		9	2452		14.00	13.79
	802.11be40-EHT	3	2422	MCS0	13.00	12.88
		6	2437		16.50	16.16
		9	2452		15.00	14.66

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Main(Chain2)						
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	11.00	10.72
		44	5220		12.00	11.87
		48	5240		12.00	11.99
	802.11n20-HT0	36	5180	MCS0	12.00	11.83
		44	5220		12.50	12.03
		48	5240		12.00	11.88
	802.11ac20-VHT0	36	5180	MCS0	12.50	12.33
		44	5220		12.50	12.11
		48	5240		12.25	12.03
	802.11ax20-HE0	36	5180	MCS0	12.50	12.11
		44	5220		12.50	12.06
		48	5240		12.50	12.18
	802.11be20-EHT	36	5180	MCS0	12.50	12.33
		44	5220		12.50	12.21
		48	5240		12.50	12.23
	802.11n40-HT0	38	5190	MCS0	15.50	13.83
		46	5230		16.00	15.88
	802.11ac40-VHT0	38	5190	MCS0	16.00	15.77
		46	5230		16.00	15.62
	802.11ax40-HE0	38	5190	MCS0	16.00	15.71
		46	5230		16.00	15.87
	802.11be40-EHT	38	5190	MCS0	16.00	15.73
		46	5230		16.00	15.91
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.25
	802.11ax80-HE0	42	5210	MCS0	13.50	13.32
	802.11be80-EHT	42	5210	MCS0	13.50	13.37
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.38
	802.11ax160-HE0	50	5250	MCS0	12.50	12.22
802.11be160-EHT	50	5250	MCS0	12.50	12.11	
Main(Chain2)						
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	16.50	16.44
		60	5300		17.00	16.53
		64	5320		16.50	16.01
	802.11n20-HT0	52	5260	MCS0	17.00	16.52
		60	5300		17.00	16.66
		64	5320		16.50	15.82
	802.11ac20-VHT0	52	5260	MCS0	16.50	16.11
		60	5300		17.00	16.48
		64	5320		16.50	16.34
	802.11ax20-HE0	52	5260	MCS0	16.50	16.25
		60	5300		17.00	16.33
		64	5320		16.50	16.23
	802.11be20-EHT	52	5260	MCS0	16.50	16.34
		60	5300		16.50	16.02
		64	5320		14.50	14.30
	802.11n40-HT0	54	5270	MCS0	16.00	15.93
		62	5310		13.50	13.35
	802.11ac40-VHT0	54	5270	MCS0	16.00	15.76
		62	5310		13.50	13.24
	802.11ax40-HE0	54	5270	MCS0	16.00	15.62
		62	5310		13.50	13.27
	802.11be40-EHT	54	5270	MCS0	16.50	16.04
		62	5310		17.00	16.57
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.22
	802.11ax80-HE0	58	5290	MCS0	13.50	13.11
	802.11be80-EHT	58	5290	MCS0	12.50	12.25

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Main(Chain2)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	15.92
		116	5580		16.50	16.22
		140	5700		16.50	15.73
		144	5720		16.50	16.43
	802.11n20-HT0	100	5500	MCS0	16.50	15.47
		116	5580		17.00	16.67
		140	5700		16.50	15.34
		144	5720		17.00	16.53
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.17
		140	5700		16.50	16.32
		144	5720		17.00	16.45
	802.11ax20-HE0	100	5500	MCS0	16.50	16.28
		140	5700		16.50	16.21
		144	5720		17.00	16.44
	802.11be20-EHT	100	5500	MCS0	15.00	14.65
		116	5580		16.50	16.13
		140	5700		15.00	14.98
		144	5720		16.50	16.21
	802.11n40-HT0	102	5510	MCS0	14.50	14.12
		110	5550		16.00	15.77
		134	5670		16.00	15.83
		142	5710		16.00	15.72
	802.11ac40-VHT0	102	5510	MCS0	14.50	14.18
		110	5550		16.00	15.67
		134	5670		16.00	15.89
		142	5710		16.00	15.64
	802.11ax40-HE0	102	5510	MCS0	14.50	14.19
		110	5550		16.00	15.64
		134	5670		16.00	15.78
		142	5710		16.00	15.84
	802.11be40-EHT	102	5510	MCS0	16.00	15.81
		110	5550		16.00	15.88
		134	5670		17.00	16.51
		142	5710		16.00	15.78
	802.11ac80-VHT0	106	5530	MCS0	13.00	12.94
		122	5610		14.50	14.41
		138	5690		15.00	14.53
	802.11ax80-HE0	106	5530	MCS0	13.00	12.77
		122	5610		14.50	14.34
		138	5690		15.00	14.76
	802.11be80-EHT	106	5530	MCS0	12.50	12.23
		122	5610		15.50	15.37
		138	5690		15.50	15.43
	802.11ac160-VHT0	114	5570	MCS0	11.50	10.79
	802.11ax160-HE0	114	5570	MCS0	11.50	11.31
	802.11be160-EHT	114	5570	MCS0	11.50	10.95

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Main(Chain2)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	16.50	15.52
		157	5785		16.50	16.25
		165	5825		16.50	15.41
	802.11n20-HT0	149	5745	MCS0	16.50	15.35
		157	5785		16.50	16.37
		165	5825		16.50	15.27
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.33
		157	5785		16.50	16.24
		165	5825		16.50	16.32
	802.11ax20-HE0	149	5745	MCS0	16.50	16.31
		157	5785		16.50	16.09
		165	5825		16.50	16.11
	802.11be20-EHT	149	5745	MCS0	17.00	16.66
		157	5785		16.50	16.16
		165	5825		16.50	16.44
	802.11n40-HT0	151	5755	MCS0	16.00	15.23
		159	5795		16.00	15.38
		151	5755	MCS0	16.00	15.98
	802.11ac40-VHT0	151	5755		16.00	15.76
		159	5795		16.00	15.67
	802.11ax40-HE0	151	5755	MCS0	16.00	15.36
		159	5795		16.00	15.36
		151	5755	MCS0	16.50	16.45
	802.11be40-EHT	151	5755		16.50	16.34
		159	5795		16.50	16.34
	802.11ac80-VHT0	155	5775	MCS0	15.50	14.50
	802.11ax80-HE0	155	5775	MCS0	15.50	15.05
	802.11be80-EHT	155	5775	MCS0	12.75	12.52
Main(Chain2)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	15.00	14.62
		173	5865		15.00	14.56
		177	5885		15.00	14.52
	802.11n20-HT0	169	5845	MCS0	18.00	17.82
		173	5865		18.00	17.77
		177	5885		18.00	17.72
	802.11ac20-VHT0	169	5845	MCS0	18.00	17.63
		173	5865		18.00	17.69
		177	5885		18.00	17.53
	802.11ax20-HE0	169	5845	MCS0	18.00	17.62
		173	5865		18.00	17.61
		177	5885		18.00	17.64
	802.11n40-HT0	167	5835	MCS0	17.50	17.16
		175	5875		17.50	17.02
		167	5835	MCS0	17.50	17.13
	802.11ac40-VHT0	167	5835		17.50	17.20
		175	5875		17.50	17.18
	802.11ax40-HE0	167	5835	MCS0	17.50	17.18
		175	5875		17.50	17.13
		167	5835	MCS0	17.50	17.18
	802.11ac80-VHT0	171	5855		17.00	16.54
		171	5855		17.00	16.69
		163	5815	MCS0	14.00	13.57
	802.11ax160-HE0	163	5815		14.00	13.65

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Aux(Chain1)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.50	17.56
		6	2437		18.00	17.53
		11	2462		18.00	17.59
	802.11g	1	2412	6Mbps	18.00	17.52
		6	2437		18.00	16.91
		11	2462		16.00	15.52
	802.11n20-HT0	1	2412	MCS0	17.50	16.66
		6	2437		18.00	17.34
		11	2462		14.00	13.69
	802.11ac20-VHT0	1	2412	MCS0	17.50	17.42
		6	2437		18.00	17.87
		11	2462		15.00	14.56
	802.11ax20-HE0	1	2412	MCS0	17.50	17.23
		6	2437		18.00	17.83
		11	2462		15.00	14.65
	802.11be20-EHT	1	2412	MCS0	17.50	17.49
		6	2437		19.00	18.36
		11	2462		16.50	16.45
	802.11n40-HT0	3	2422	MCS0	14.50	14.37
		6	2437		16.00	15.62
		9	2452		14.00	13.61
	802.11ac40-VHT0	3	2422	MCS0	14.50	14.44
		6	2437		16.00	15.98
		9	2452		14.00	13.76
	802.11ax40-HE0	3	2422	MCS0	14.50	14.11
		6	2437		16.00	15.87
		9	2452		14.00	13.97
	802.11be40-EHT	3	2422	MCS0	13.00	12.62
		6	2437		16.00	15.93
		9	2452		14.50	14.20

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Aux(Chain1)						
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	11.00	10.07
		44	5220		11.50	11.13
		48	5240		11.50	11.43
	802.11n20-HT0	36	5180	MCS0	12.00	11.69
		44	5220		12.00	11.76
		48	5240		12.00	11.65
	802.11ac20-VHT0	36	5180	MCS0	12.00	11.87
		44	5220		12.00	11.78
		48	5240		12.00	11.66
	802.11ax20-HE0	36	5180	MCS0	12.00	11.83
		44	5220		12.00	11.77
		48	5240		12.00	11.87
	802.11be20-EHT	36	5180	MCS0	12.00	11.98
		44	5220		12.00	11.88
		48	5240		12.00	11.91
	802.11n40-HT0	38	5190	MCS0	13.50	13.47
		46	5230		16.00	15.61
	802.11ac40-VHT0	38	5190	MCS0	15.50	15.23
		46	5230		16.00	15.44
	802.11ax40-HE0	38	5190	MCS0	15.50	15.24
		46	5230		16.00	15.33
	802.11be40-EHT	38	5190	MCS0	15.50	15.21
		46	5230		15.50	15.43
	802.11ac80-VHT0	42	5210	MCS0	13.00	12.86
	802.11ax80-HE0	42	5210	MCS0	13.00	12.93
	802.11be80-EHT	42	5210	MCS0	13.00	12.88
	802.11ac160-VHT0	50	5250	MCS0	12.00	11.97
	802.11ax160-HE0	50	5250	MCS0	12.00	11.92
802.11be160-EHT	50	5250	MCS0	12.00	11.96	
Aux(Chain1)						
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	16.50	16.32
		60	5300		16.50	16.45
		64	5320		16.50	15.83
	802.11n20-HT0	52	5260	MCS0	16.50	16.41
		60	5300		17.00	16.58
		64	5320		16.50	15.63
	802.11ac20-VHT0	52	5260	MCS0	16.50	16.32
		60	5300		17.00	16.43
		64	5320		16.50	16.11
	802.11ax20-HE0	52	5260	MCS0	16.50	16.23
		60	5300		17.00	16.35
		64	5320		16.50	16.14
	802.11be20-EHT	52	5260	MCS0	16.50	15.97
		60	5300		16.50	15.88
		64	5320		14.00	13.58
	802.11n40-HT0	54	5270	MCS0	16.00	15.71
		62	5310		13.50	13.05
	802.11ac40-VHT0	54	5270	MCS0	16.00	15.78
		62	5310		13.50	13.24
	802.11ax40-HE0	54	5270	MCS0	16.00	15.67
		62	5310		13.50	13.13
	802.11be40-EHT	54	5270	MCS0	16.00	15.52
		62	5310		16.50	16.07
	802.11ac80-VHT0	58	5290	MCS0	13.00	12.80
	802.11ax80-HE0	58	5290	MCS0	13.00	12.86
	802.11be80-EHT	58	5290	MCS0	12.50	11.67

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Aux(Chain1)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	15.61
		116	5580		16.50	16.16
		140	5700		16.50	15.42
		144	5720		16.50	16.32
	802.11n20-HT0	100	5500	MCS0	16.50	15.21
		116	5580		16.50	16.41
		140	5700		16.50	15.46
		144	5720		16.50	16.44
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.16
		140	5700		16.50	16.03
		144	5720		16.50	16.22
	802.11ax20-HE0	100	5500	MCS0	16.50	16.32
		140	5700		16.50	16.03
		144	5720		16.50	16.14
	802.11be20-EHT	100	5500	MCS0	14.50	14.02
		116	5580		16.50	16.03
		140	5700		15.00	14.52
		144	5720		16.00	15.93
	802.11n40-HT0	102	5510	MCS0	14.00	13.86
		110	5550		16.00	15.57
		134	5670		15.50	15.44
		142	5710		16.00	15.59
	802.11ac40-VHT0	102	5510	MCS0	16.00	15.89
		110	5550		16.00	15.61
		134	5670		16.00	15.77
		142	5710		15.50	15.19
	802.11ax40-HE0	102	5510	MCS0	16.00	15.92
		110	5550		16.00	15.80
		134	5670		15.50	15.15
		142	5710		16.00	15.68
	802.11be40-EHT	102	5510	MCS0	16.00	15.33
		110	5550		15.50	15.23
		134	5670		16.50	16.11
		142	5710		16.00	15.13
	802.11ac80-VHT0	106	5530	MCS0	13.00	12.84
		122	5610		14.50	14.36
		138	5690		14.50	14.40
	802.11ax80-HE0	106	5530	MCS0	13.00	12.98
		122	5610		14.50	14.42
		138	5690		14.50	14.32
	802.11be80-EHT	106	5530	MCS0	12.50	11.53
		122	5610		15.50	14.63
		138	5690		15.50	14.68
	802.11ac160-VHT0	114	5570	MCS0	11.50	10.65
	802.11ax160-HE0	114	5570	MCS0	11.50	11.21
	802.11be160-EHT	114	5570	MCS0	11.50	10.83

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Aux(Chain1)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	16.50	15.26
		157	5785		16.50	16.14
		165	5825		16.50	15.17
	802.11n20-HT0	149	5745	MCS0	16.50	15.62
		157	5785		16.50	16.20
		165	5825		16.50	15.41
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.11
		157	5785		16.50	15.98
		165	5825		16.50	16.03
	802.11ax20-HE0	149	5745	MCS0	16.50	16.01
		157	5785		16.50	15.89
		165	5825		16.50	15.92
	802.11be20-EHT	149	5745	MCS0	16.50	16.23
		157	5785		16.00	15.88
		165	5825		16.50	16.22
	802.11n40-HT0	151	5755	MCS0	16.00	15.01
		159	5795		16.00	15.17
		151	5755	MCS0	16.00	15.78
	802.11ac40-VHT0	151	5755		16.00	15.87
		159	5795		16.00	15.67
	802.11ax40-HE0	151	5755	MCS0	16.00	15.81
		159	5795		16.00	15.81
		151	5755	MCS0	16.50	16.03
	802.11be40-EHT	151	5755		16.50	16.01
		159	5795		16.50	16.01
	802.11ac80-VHT0	155	5775	MCS0	15.50	14.31
	802.11ax80-HE0	155	5775	MCS0	15.50	15.33
	802.11be80-EHT	155	5775	MCS0	12.75	11.78
Aux(Chain1)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.9GHz	802.11a	169	5845	6Mbps	15.00	14.68
		173	5865		15.00	14.60
		177	5885		15.00	14.58
	802.11n20-HT0	169	5845	MCS0	18.00	17.77
		173	5865		18.00	17.78
		177	5885		18.00	17.82
	802.11ac20-VHT0	169	5845	MCS0	18.00	17.64
		173	5865		18.00	17.70
		177	5885		18.00	17.75
	802.11ax20-HE0	169	5845	MCS0	18.00	17.72
		173	5865		18.00	17.70
		177	5885		18.00	17.70
	802.11n40-HT0	167	5835	MCS0	17.50	17.06
		175	5875		17.50	17.15
		167	5835	MCS0	17.50	17.25
	802.11ac40-VHT0	167	5835		17.50	17.19
		175	5875		17.50	17.20
	802.11ax40-HE0	167	5835	MCS0	17.50	17.20
		175	5875		17.50	17.20
		167	5835	MCS0	17.50	17.20
	802.11ac80-VHT0	171	5855		17.00	16.69
		171	5855		17.00	16.73
		163	5815	MCS0	14.00	13.57
	802.11ax160-HE0	163	5815		14.00	13.75

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6.2 WIFI 6E

Main(Chain2)						
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	15.50	14.52
		45	6175		16.50	16.21
		93	6415		15.50	15.44
	802.11ax20-HE0	1	5955	MCS0	15.50	15.29
		45	6175		16.50	16.24
		93	6415		15.50	15.16
	802.11be20-EHT	1	5955		16.00	15.72
		45	6175		16.50	16.21
		93	6415		15.50	15.24
	802.11ax40-HE0	3	5965	MCS0	16.50	16.41
		43	6165		16.50	16.35
		91	6405		16.50	16.48
	802.11be40-EHT	3	5965	MCS0	16.50	16.10
		43	6165		16.50	16.23
		91	6405		16.50	16.14
	802.11ax80-HE0	7	5985	MCS0	14.50	14.21
		39	6145		15.50	15.37
		87	6385		15.50	15.31
	802.11be80-EHT	7	5985	MCS0	14.50	14.14
		39	6145		15.50	15.43
		87	6385		15.50	15.32
	802.11ax160-HE0	15	6025	MCS0	15.00	14.60
		47	6185		15.00	14.58
		79	6345		15.00	14.54
	802.11be160-EHT	15	6025	MCS0	15.00	14.67
		47	6185		15.00	14.88
		79	6345		15.00	14.77
	802.11 be 320-EHT	31	6105	MCS0	14.00	13.70
		63	6265	MCS0	14.00	13.60
		95	6425	MCS0	14.00	13.62

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Main(Chain2)						
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	2.00	1.88
		105	6475		3.50	3.19
		113	6515		2.00	1.76
	802.11ax20-HE0	97	6435	MCS0	2.00	1.78
		105	6475		3.50	3.42
		113	6515		2.00	1.87
	802.11be20-EHT	97	6435	MCS0	2.00	1.82
		105	6475		3.00	2.77
		113	6515		2.00	1.73
	802.11ax40-HE0	99	6445	MCS0	8.00	7.77
		107	6485		16.50	16.23
		123	6565		16.50	16.38
	802.11be40-EHT	99	6445	MCS0	8.00	7.93
		107	6485		16.50	16.42
		123	6565		16.50	16.11
	802.11ax160-HE0	111	6505	MCS0	12.50	12.17
	802.11be160-EHT	111	6505	MCS0	12.50	12.12
	802.11 be 320-EHT	127	6585	MCS0	14.00	13.55
Main(Chain2)						
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	16.50	16.23
		149	6695		16.50	16.25
		181	6855		16.50	16.46
	802.11ax20-HE0	117	6535	MCS0	16.50	16.28
		149	6695		16.50	16.03
		181	6855		16.50	16.17
	802.11be20-EHT	117	6535	MCS0	16.50	16.31
		149	6695		16.50	16.12
		181	6855		16.50	16.09
	802.11ax80-HE0	135	6625	MCS0	15.50	15.33
		151	6705		15.50	15.34
		167	6785		15.50	15.21
	802.11be80-EHT	135	6625	MCS0	15.50	15.11
		151	6705		15.50	15.34
		167	6785		15.50	15.03
	802.11ax160-HE0	143	6665	MCS0	15.00	14.60
		175	6825		11.50	11.01
	802.11be160-EHT	143	6665	MCS0	15.00	14.71
		175	6825		11.50	11.36
	802.11 be 320-EHT	159	6745	MCS0	14.00	13.52

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Main(Chain2)						
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	1.50	1.11
		209	6995		1.50	1.37
		233	7115		1.00	0.62
	802.11ax20-HE0	185	6875	MCS0	3.50	3.36
		209	6995		3.50	3.27
		233	7115		1.00	0.88
	802.11be20-EHT	185	6875	MCS0	3.50	3.25
		209	6995		3.50	3.18
		233	7115		-8.00	-8.32
	802.11ax40-HE0	187	6885	MCS0	7.50	7.24
		195	6925		7.50	7.31
		227	7085		5.00	4.89
	802.11be40-EHT	187	6885	MCS0	7.50	7.26
		195	6925		7.50	7.01
		227	7085		5.00	4.70
	802.11ax80-HE0	183	6865	MCS0	9.50	9.34
		199	6945		9.50	9.04
		215	7025		9.50	9.18
	802.11be80-EHT	183	6865	MCS0	9.50	9.36
		199	6945		9.50	9.37
		215	7025		9.50	9.10
	802.11ax160-HE0	207	6985	MCS0	12.00	11.64
	802.11be160-EHT	207	6985	MCS0	12.00	11.99
	802.11 be 320-EHT	191	6905	MCS0	13.50	13.38

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Aux(Chain1)						
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	15.50	14.87
		45	6175		16.50	16.13
		93	6415		15.50	15.43
	802.11ax20-HE0	1	5955	MCS0	15.50	15.31
		45	6175		16.50	15.99
		93	6415		15.50	15.44
	802.11be20_EHT	1	5955	MCS0	16.00	15.04
		45	6175		16.50	16.09
		93	6415		15.50	14.99
	802.11ax40-HE0	3	5965	MCS0	16.00	15.93
		43	6165		16.00	15.87
		91	6405		16.00	15.98
	802.11be40-EHT	3	5965	MCS0	16.00	15.74
		43	6165		16.00	15.92
		91	6405		16.00	15.78
	802.11ax80-HE0	7	5985	MCS0	14.50	14.23
		39	6145		15.50	15.09
		87	6385		15.50	15.26
	802.11be80-EHT	7	5985	MCS0	14.50	13.54
		39	6145		15.50	15.24
		87	6385		15.50	15.23
	802.11ax160-HE0	15	6025	MCS0	14.00	13.63
		47	6185		14.50	14.11
		79	6345		14.00	13.51
	802.11be160-EHT	15	6025	MCS0	14.00	13.98
		47	6185		14.50	14.05
		79	6345		14.00	13.91
	802.11 be 320-EHT	31	6105	MCS0	13.50	13.25
		63	6265	MCS0	13.50	13.23
		95	6425	MCS0	13.50	13.29
Aux(Chain1)						
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	3.00	2.78
		105	6475		3.00	2.55
		113	6515		3.00	2.65
	802.11ax20-HE0	97	6435	MCS0	3.00	2.84
		105	6475		3.00	2.38
		113	6515		3.00	2.89
	802.11be20-EHT	97	6435	MCS0	2.50	2.22
		105	6475		2.50	2.06
		113	6515		2.50	2.31
	802.11ax40-HE0	99	6445	MCS0	7.50	7.18
		107	6485		16.00	15.67
		123	6565		16.00	15.74
	802.11be40-EHT	99	6445	MCS0	7.50	7.41
		107	6485		16.00	15.83
		123	6565		16.00	15.82
	802.11ax160-HE0	111	6505	MCS0	12.50	12.04
	802.11be160-EHT	111	6505	MCS0	12.00	11.20
	802.11 be 320-EHT	127	6585	MCS0	13.50	13.08

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Aux(Chain1)						
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	16.50	16.38
		149	6695		16.50	16.16
		181	6855		16.50	16.41
	802.11ax20-HE0	117	6535	MCS0	16.50	16.31
		149	6695		16.50	16.27
		181	6855		16.50	16.15
	802.11be20-EHT	117	6535	MCS0	16.00	15.92
		149	6695		16.00	15.76
		181	6855		16.00	15.78
	802.11ax80-HE0	135	6625	MCS0	15.50	15.36
		151	6705		15.50	15.05
		167	6785		15.50	15.43
	802.11be80-EHT	135	6625	MCS0	15.50	14.99
		151	6705		15.50	15.19
		167	6785		15.50	15.14
	802.11ax160-HE0	143	6665	MCS0	14.00	13.54
		175	6825		11.50	11.17
	802.11be160-EHT	143	6665	MCS0	14.00	13.83
		175	6825		11.50	11.10
	802.11 be 320-EHT	159	6745	MCS0	13.50	13.13
Aux(Chain1)						
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	1.50	1.22
		209	6995		1.50	1.10
		233	7115		0.00	-0.08
	802.11ax20-HE0	185	6875	MCS0	3.00	2.89
		209	6995		3.00	2.75
		233	7115		0.00	0.00
	802.11be20-EHT	185	6875	MCS0	3.00	2.84
		209	6995		3.00	2.63
		233	7115		-9.00	-9.46
	802.11ax40-HE0	187	6885	MCS0	7.00	6.82
		195	6925		7.00	6.45
		227	7085		4.50	4.23
	802.11be40-EHT	187	6885	MCS0	7.00	6.84
		195	6925		7.00	6.89
		227	7085		4.50	4.29
	802.11ax80-HE0	183	6865	MCS0	9.50	9.08
		199	6945		9.50	9.25
		215	7025		8.50	8.46
	802.11be80-EHT	183	6865	MCS0	9.50	9.22
		199	6945		9.50	9.03
		215	7025		8.50	8.46
	802.11ax160-HE0	207	6985	MCS0	11.50	11.02
	802.11be160-EHT	207	6985	MCS0	11.50	11.42
	802.11 be 320-EHT	191	6905	MCS0	13.50	13.3

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6.3 Bluetooth

MAIN(Ch1)

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	16.00	14.05	12.00	11.84	12.00	11.85
	CH 39	2441		14.20		11.99		11.98
	CH 78	2480		14.01		11.65		11.64

AUX(Ch0)

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	16.00	14.32	12.00	10.15	12.00	10.16
	CH 39	2441		14.85		10.37		10.98
	CH 78	2480		14.02		10.12		10.00

6.4 BLE

MAIN(Ch1)

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	4.5	3.61
	CH 19	2440		4.15
	CH 39	2480		2.72

AUX(Ch0)

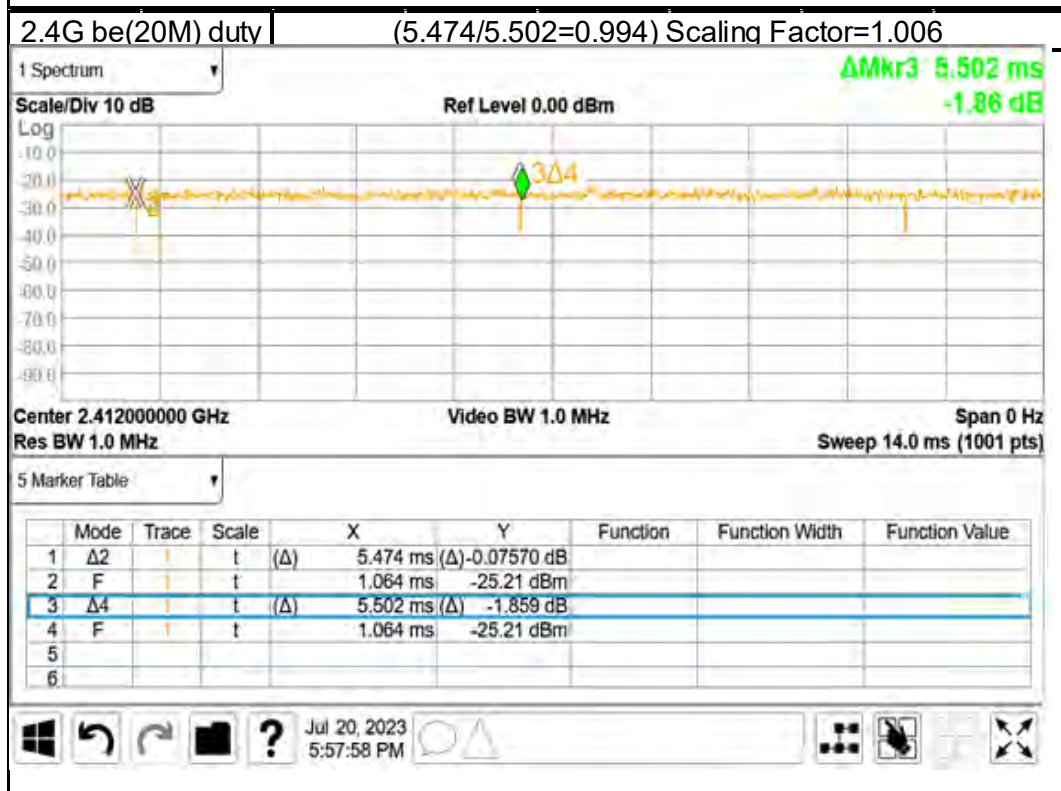
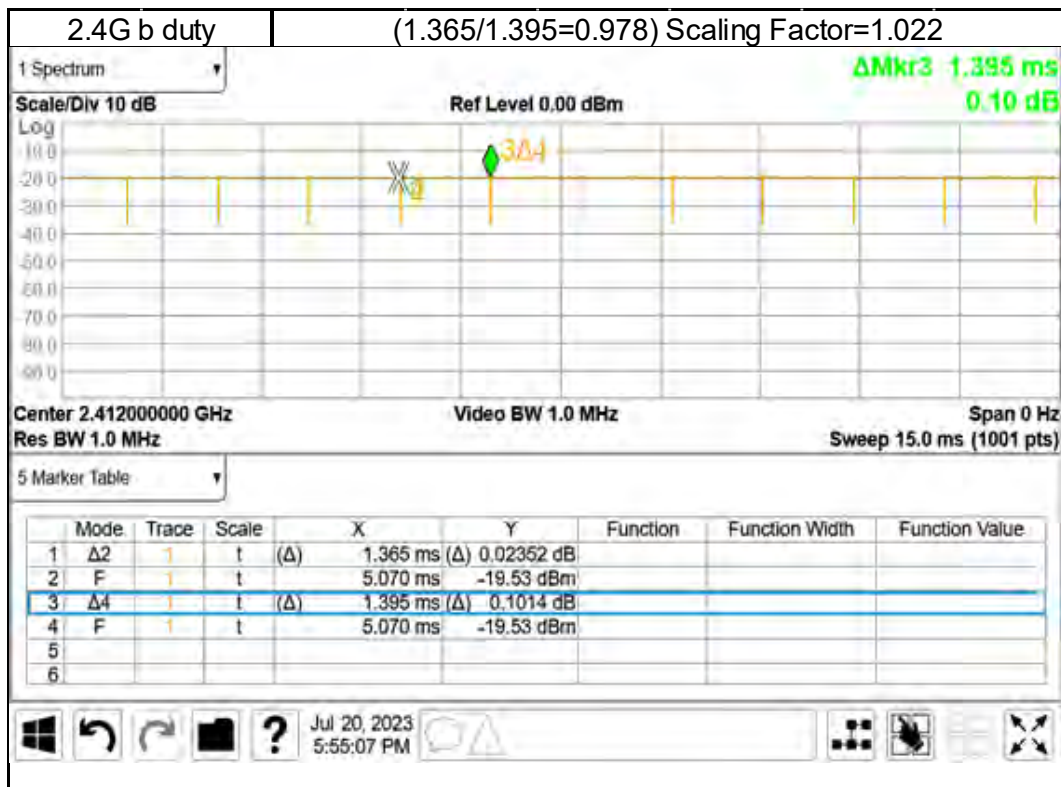
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	4	3.32
	CH 19	2440		3.61
	CH 39	2480		2.39

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7 DUTY CYCLE



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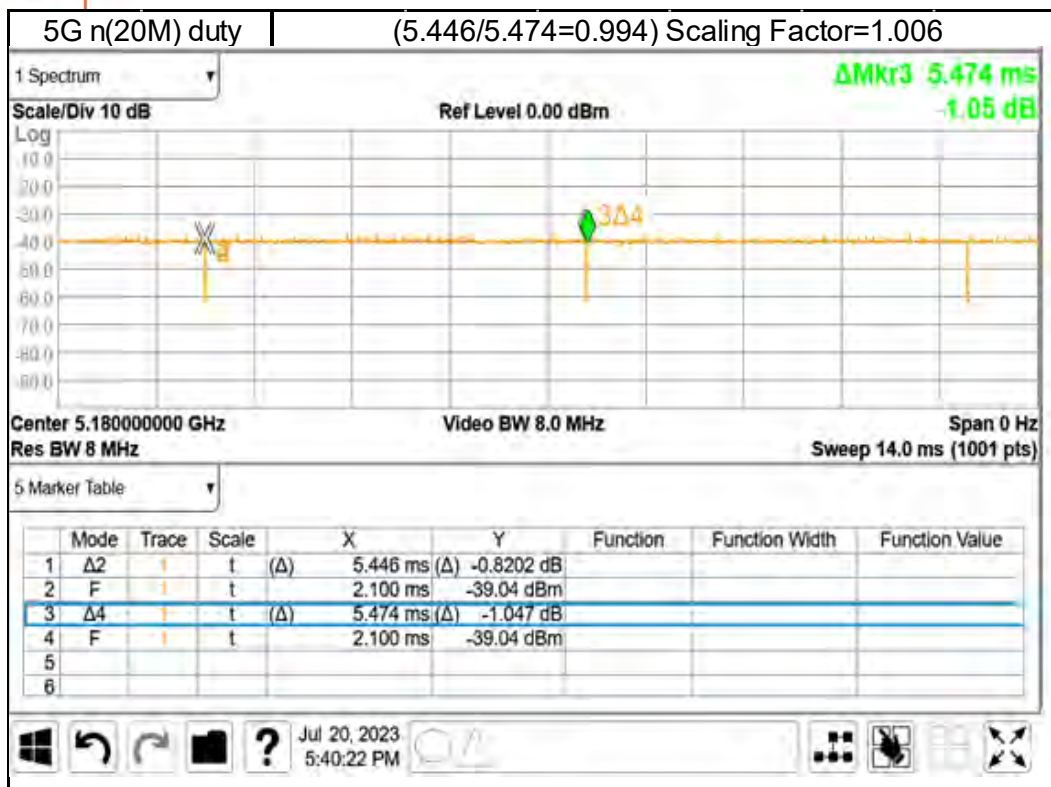
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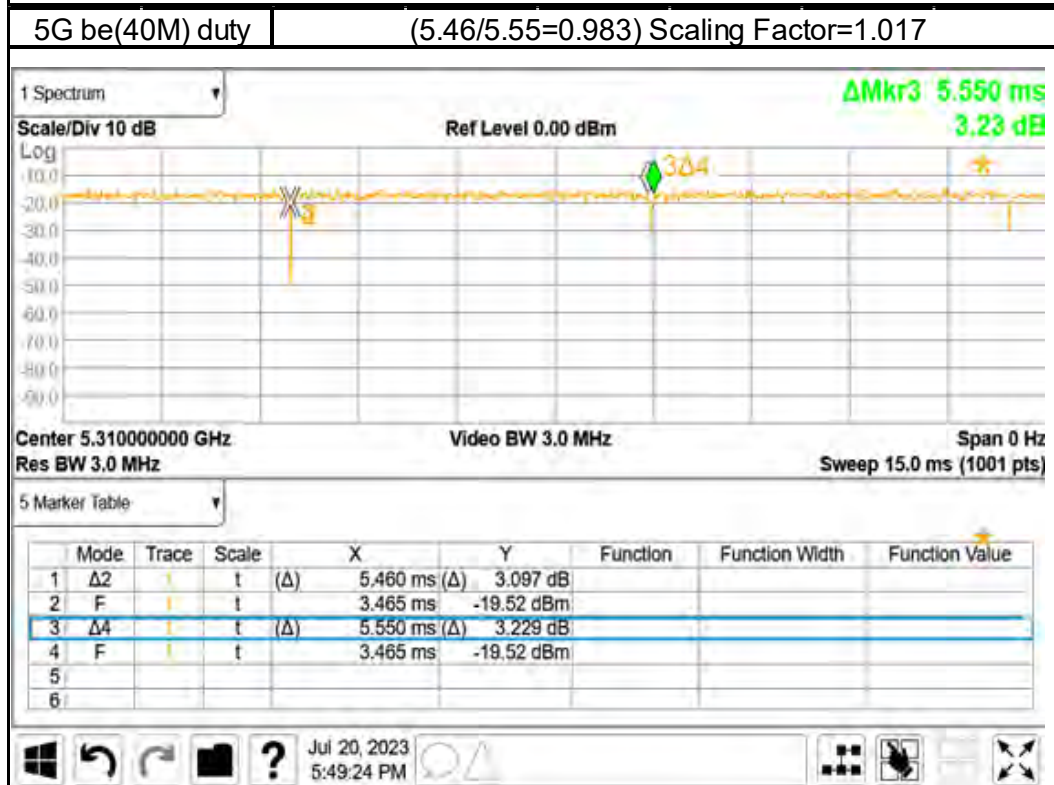
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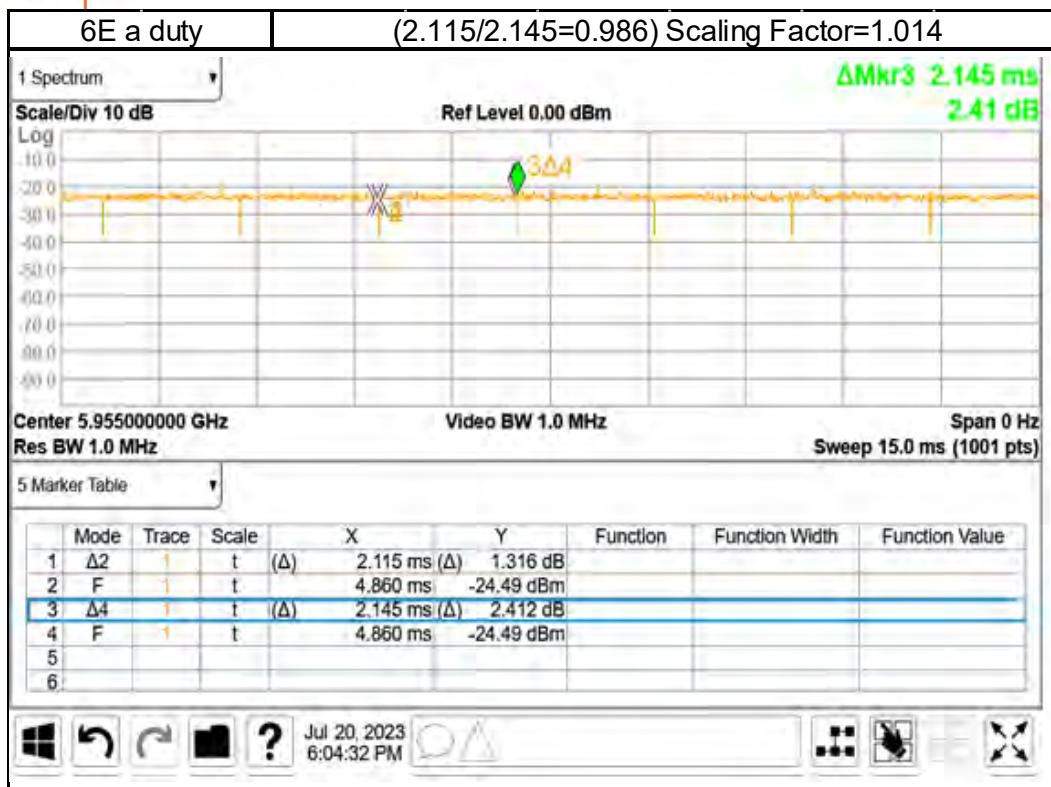
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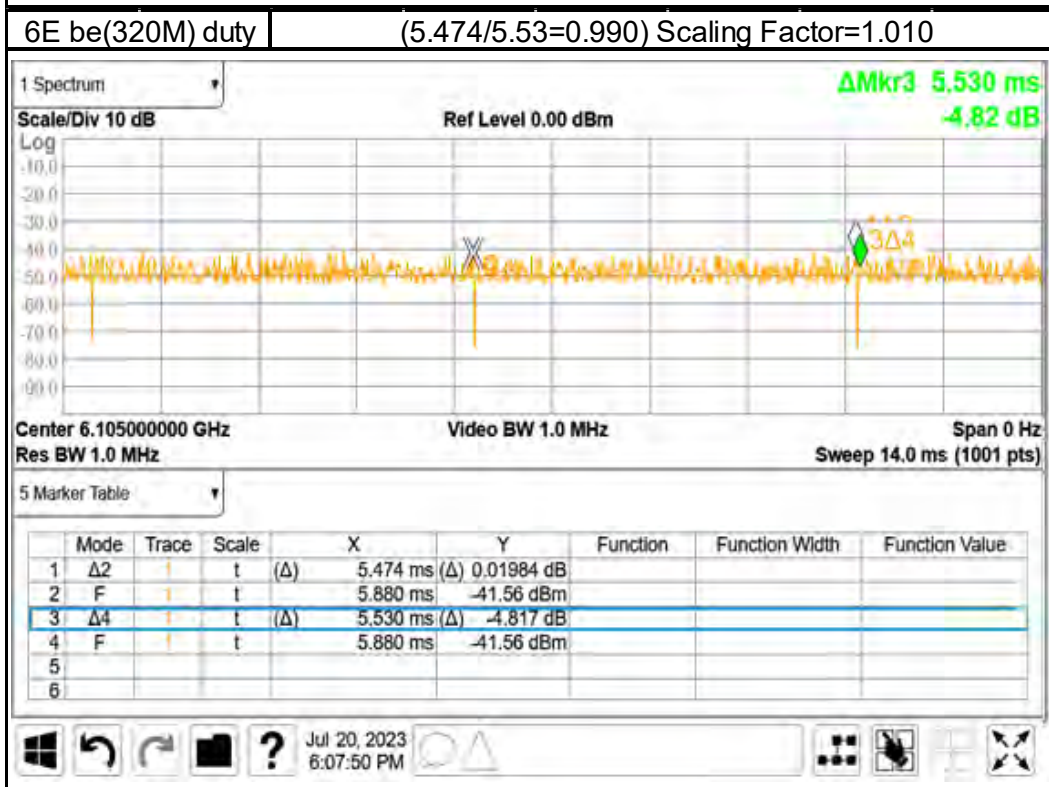
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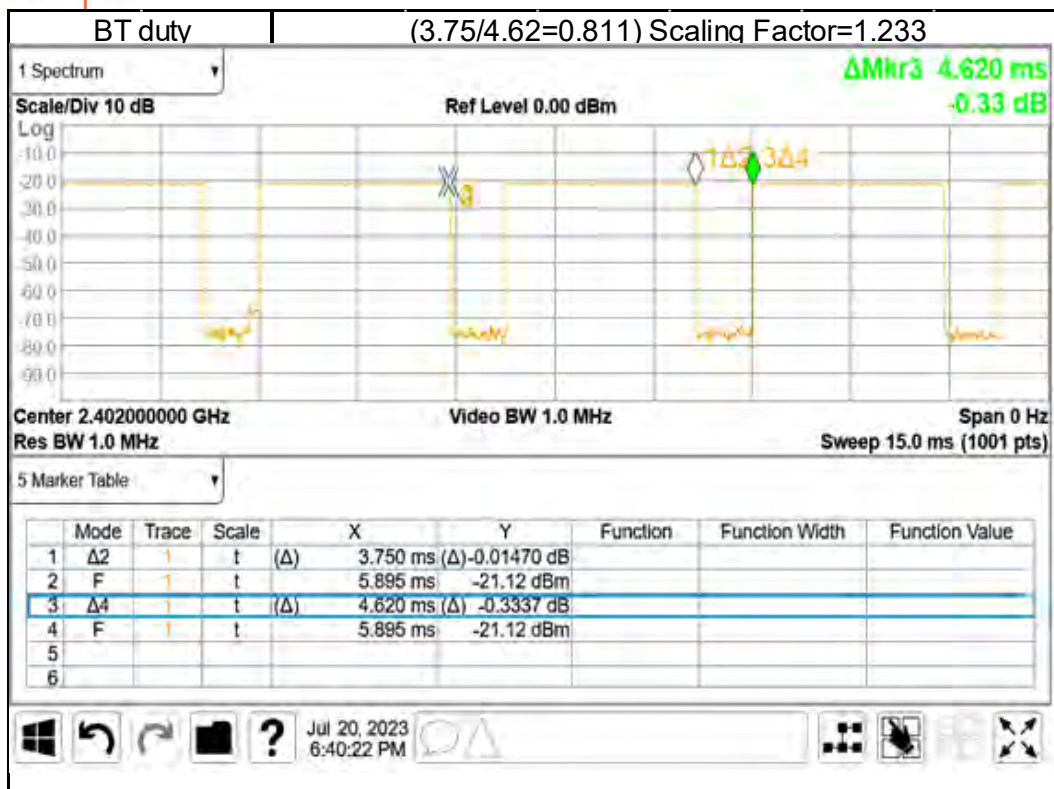
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8 SUMMARY OF RESULTS

8.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

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

8.2 Summary of SAR Results

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(Chain2)	Bottom Surface	0	1	2412	18.50	18.03	1.022	111.43%	0.504	0.574	001
WLAN 802.11be(20M) 2.4G	Main(Chain2)	Bottom Surface	0	6	2437	19.00	18.64	1.006	108.64%	0.401	0.438	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
Bluetooth(GFSK)	Main(Chain2)	Bottom Surface	0	39	2441	16.00	14.20	1.233	151.36%	0.278	0.519	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
WLAN 802.11n(40M) 5.2G	Main(Chain2)	Bottom Surface	0	46	5230	16.00	15.88	1.009	102.80%	0.230	0.239	004
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11be(40M) 5.3G	Main(Chain2)	Bottom Surface	0	62	5310	17.00	16.57	1.017	110.41%	0.219	0.246	005
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11be(40M) 5.6G	Main(Chain2)	Bottom Surface	0	134	5670	17.00	16.51	1.009	111.94%	0.146	0.165	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
WLAN 802.11be(20M) 5.8G	Main(Chain2)	Bottom Surface	0	149	5745	17.00	16.66	1.007	108.14%	0.147	0.160	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
WLAN 802.11n(20M) 5.9G	Main(Chain2)	Bottom Surface	0	169	5845	18.00	17.82	1.006	104.23%	0.148	0.155	008
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11b	Aux(Chain1)	Bottom Surface	0	11	2462	18.00	17.59	1.022	109.90%	0.302	0.339	009
WLAN 802.11be(20M) 2.4G	Aux(Chain1)	Bottom Surface	0	6	2437	19.00	18.36	1.006	115.88%	0.292	0.340	010
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
Bluetooth(GFSK)	Aux(Chain1)	Bottom Surface	0	39	2441	16.00	14.85	1.233	130.32%	0.169	0.272	011
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(40M) 5.2G	Aux(Chain1)	Bottom Surface	0	46	5230	16.00	15.61	1.009	109.40%	0.173	0.191	012
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
WLAN 802.11n(20M) 5.3G	Aux(Chain1)	Bottom Surface	0	60	5300	17.00	16.58	1.006	110.15%	0.165	0.183	013
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
WLAN 802.11be(40M) 5.6G	Aux(Chain1)	Bottom Surface	0	134	5670	16.50	16.11	1.017	109.40%	0.106	0.118	014
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
WLAN 802.11be(40M) 5.8G	Aux(Chain1)	Bottom Surface	0	151	5755	16.50	16.03	1.017	111.43%	0.093	0.105	015
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
WLAN 802.11n(20M) 5.9G	Aux(Chain1)	Bottom Surface	0	177	5885	18.00	17.82	1.006	104.23%	0.143	0.150	016

WIFI6E

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 6.2GHz802.11ax(40M)	Main(Chain2)	Bottom Surface	0	3	5965	16.50	16.41	1.009	102.09%	0.059	0.061	0.523	0.539	017
U-NII-5 6.2GHz802.11ax(40M)	Main(Chain2)	Bottom Surface	0	91	6405	16.50	16.48	1.009	100.46%	0.091	0.092	0.846	0.858	018
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 6.5GHz802.11be(40M)	Main(Chain2)	Bottom Surface	0	107	6485	16.50	16.42	1.012	101.86%	0.069	0.071	0.602	0.621	019
	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz802.11a	Main(Chain2)	Bottom Surface	0	181	6655	16.50	16.46	1.014	100.93%	0.104	0.106	0.838	0.858	020
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 7.0GHz802.11be(320M)	Main(Chain2)	Bottom Surface	0	191	6905	13.50	13.38	1.010	102.80%	0.036	0.037	0.241	0.250	021

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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD W/m ² (4cm ²)		ID
										Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11a	Aux(Chain1)	Bottom Surface	0	45	6175	16.50	16.13	1.014	108.89%	0.082	0.091	0.767	0.847	022
U-NII-5 6.2GHz802.11a	Aux(Chain1)	Bottom Surface	0	93	6415	15.50	15.43	1.014	101.62%	0.049	0.050	0.425	0.438	023
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(40M)	Aux(Chain1)	Bottom Surface	0	107	6485	16.00	15.83	1.012	103.99%	0.056	0.059	0.515	0.542	024
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 6.7GHz802.11a	Aux(Chain1)	Bottom Surface	0	181	6855	16.50	16.41	1.014	102.09%	0.059	0.061	0.506	0.524	025
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 7.0GHz802.11be(320M)	Aux(Chain1)	Bottom Surface	0	191	6905	13.50	13.30	1.010	104.71%	0.015	0.016	0.244	0.258	026

Note:

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

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

8.3 Summary of PD Results

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
U-NII-5 6.2GHz802.11a(40M)	Main(Chain2)	Bottom Surface	2	3	5965	16.5	16.31	104.47%	1.009	1.55	0.560	0.915	0.320	0.523	027
	Main(Chain2)	Bottom Surface	2	91	6405	16.5	16.38	102.80%	1.009	1.55	0.485	0.780	0.238	0.383	028
U-NII-6 6.5GHz802.11be40-EHT	Main(Chain2)	Bottom Surface	2	107	6485	16.5	16.42	101.86%	1.012	1.55	0.472	0.754	0.242	0.387	029
U-NII-7 6.7GHz802.11a	Main(Chain2)	Bottom Surface	2	181	6855	16.5	16.46	100.93%	1.014	1.55	0.323	0.512	0.163	0.259	030
U-NII-8 7.0GHz802.11be(320M)	Main(Chain2)	Bottom Surface	2	191	6905	13.5	13.38	102.80%	1.010	1.55	0.420	0.676	0.184	0.296	031
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
											Measured Total psPD (W/m ²)	Reported Total psPD (W/m ²)	Measured Normal psPD (W/m ²)	Reported Normal psPD (W/m ²)	
U-NII-5 6.2GHz802.11a	Aux(Chain1)	Bottom Surface	2	45	6175	16.5	16.13	108.89%	1.009	1.55	0.352	0.599	0.228	0.388	032
	Aux(Chain1)	Bottom Surface	2	93	6415	15.5	15.43	101.62%	1.009	1.55	0.376	0.598	0.170	0.270	033
U-NII-6 6.5GHz802.11be40-EHT	Aux(Chain1)	Bottom Surface	2	107	6485	16	15.83	103.99%	1.012	1.55	0.278	0.453	0.147	0.240	034
U-NII-7 6.7GHz802.11a	Aux(Chain1)	Bottom Surface	2	181	6855	16.5	16.41	102.09%	1.014	1.55	0.401	0.643	0.211	0.339	035
U-NII-8 7.0GHz802.11be(320M)	Aux(Chain1)	Bottom Surface	2	191	6905	13.5	13.3	104.71%	1.010	1.55	0.200	0.328	0.113	0.185	036

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:

Mode	Simultaneous Transmit Configurations	Body
Normal	WLAN 2.4GHz Main + BT Aux	Yes
Normal	WLAN 2.4GHz Aux + BT Main	Yes
Normal	WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
Normal	WLAN 5GHz Main + BT Aux	Yes
Normal	WLAN 5GHz aux + BT main	Yes
Normal	WLAN 5GHz Main + WLAN 5GHz Aux	Yes
Normal	WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes
Normal	WLAN 5GHz Main + WLAN 5GHz Aux + BT main	Yes
Normal	WLAN 6GHz Main + BT Aux	Yes
Normal	WLAN 6GHz aux + BT main	Yes
Normal	WLAN 6GHz Main + WLAN 6GHz Aux	Yes
Normal	WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux	Yes
Normal	WLAN 6GHz Main + WLAN 6GHz Aux + BT main	Yes
DBS	WLAN 2.4GHz Main+WLAN 2.4GHz Aux+WLAN 5GHz Main+WLAN 5GHz Aux	Yes
DBS	WLAN 2.4GHz Main+WLAN 2.4GHz Aux+WLAN 6GHz Main+WLAN 6GHz Aux	Yes
HBS	WLAN 5.2GHz Main+WLAN 5.3GHz Aux+WLAN 5.6GHz Main+WLAN 5.8GHz Aux	Yes
HBS	WLAN 5.2GHz Main+WLAN 5.3GHz Aux+WLAN 6GHz Main+WLAN 6GHz Aux	Yes
HBS	WLAN 5.2GHz Main+WLAN 5.3GHz Aux+WLAN 5.6GHz Main+WLAN 5.8GHz Aux+BT Main+BT Aux	Yes
HBS	WLAN 5.2GHz Main+WLAN 5.3GHz Aux+WLAN 6GHz Main+WLAN 6GHz Aux+BT Main+BT Aux	Yes

Note:

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

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9.2 Estimated SAR calculation

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

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

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

9.3 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination Body

Exposure Position		FCC Reported SAR								Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10	Scenario 11	Scenario 12	Scenario 13
		2	3	4	5	6	7	8	9	2+7	3+6	2+3	4+7	5+6	4+5	4+5+6	4+5+7	6+7	5+6	6+5	6+5+3	7+5+3
		2.4GHz WLAN Main(Chain2) 1g SAR (W/kg)	2.4GHz WLAN Aux(Chain1) 1g SAR (W/kg)	5GHz WLAN Main(Chain2) 1g SAR (W/kg)	5GHz WLAN Aux(Chain1) 1g SAR (W/kg)	Bluetooth Main(Chain2) 1g SAR (W/kg)	Bluetooth Aux(Chain1) 1g SAR (W/kg)	5GHz WLAN Main(Chain2) 1g SAR (W/kg)	5GHz WLAN Aux(Chain1) 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Bottom Surface	0	0.574	0.340	0.246	0.191	0.519	0.272	0.106	0.091	0.846	0.889	0.914	0.918	0.710	0.437	0.956	0.709	0.378	0.610	0.197	0.716	0.488

DBS+HBS

Exposure Position		FCC Reported SAR								Scenario 14	Scenario 15	Scenario 16	Scenario 17	Scenario 18	Scenario 19
		2	3	4	5	6	7	8	9	2+3+4+5	2+3+6+9	4+5+4+5	4+5+6+9	4+5+4+5+6+7	4+5+6+7+8+9
		2.4GHz WLAN Main(Chain2) 1g SAR (W/kg)	2.4GHz WLAN Aux(Chain1) 1g SAR (W/kg)	5GHz WLAN Main(Chain2) 1g SAR (W/kg)	5GHz WLAN Aux(Chain1) 1g SAR (W/kg)	Bluetooth Main(Chain2) 1g SAR (W/kg)	Bluetooth Aux(Chain1) 1g SAR (W/kg)	6GHz WLAN Main(Chain2) 1g SAR (W/kg)	6GHz WLAN Aux(Chain1) 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Bottom Surface	0	0.574	0.340	0.246	0.191	0.519	0.272	0.106	0.091	1.351	1.111	0.874	0.634	1.499	1.425

9.4 Conclusion

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

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10 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/21/2023	Feb/20/2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7466	Jan/26/2023	Jan/25/2024
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9635	Apr/20/2023	Apr/19/2024
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2023	Apr/24/2024
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/19/2023	Jan/18/2024
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/23/2022	Aug/22/2023
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/24/2022	Aug/23/2023
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/19/2023	Jan/18/2024
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/27/2023	Feb/26/2024
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/23/2023	May/22/2024
Agilent	Dual-directional coupler	772D	MY46151258	Oct/03/2022	Oct/02/2023
Agilent	Dual-directional coupler	778D	MY46151242	Aug/30/2022	Aug/29/2023
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Meter	NRX	105651	Nov/25/2022	Nov/24/2023
R&S	Power Sensor	NRP6A	104246	Nov/22/2022	Nov/21/2023
R&S	Power Sensor	NRP6A	104247	Nov/22/2022	Nov/21/2023
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 8 mmWave V3.0.0.841	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2022	Sep/26/2023
TECPEL	Digital thermometer	DTM-303A	TP130075	Jan/11/2023	Jan/10/2024

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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%	∞
<i>Isotropy , Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
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.)	2.75%	N	1	1	0.64	0.43	1.76%	1.18%	M
Liquid Conductivity (mea.)	3.15%	N	1	1	0.6	0.49	1.89%	1.54%	M
Combined standard uncertainty		RSS					12.00%	11.87%	
Expan uncertainty (95% confidence interval), K=2							23.99%	23.73%	

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

A	c	D	e		f	g	$h=c * f / e$	$i=c * g / e$	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	v_i , or V_{eff}
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.42%	N	1	1	0.64	0.43	1.55%	1.04%	M
Liquid Conductivity (mea.)	4.54%	N	1	1	0.6	0.49	2.72%	2.22%	M
Combined standard uncertainty		RSS					11.84%	11.67%	
Expant uncertainty (95% confidence interval), K=2							23.68%	23.34%	

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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 dependence	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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12 SAR MEASUREMENT RESULTS

ID: 001

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2412.0, 1	7.98	1.848	40.215

Hardware Setup

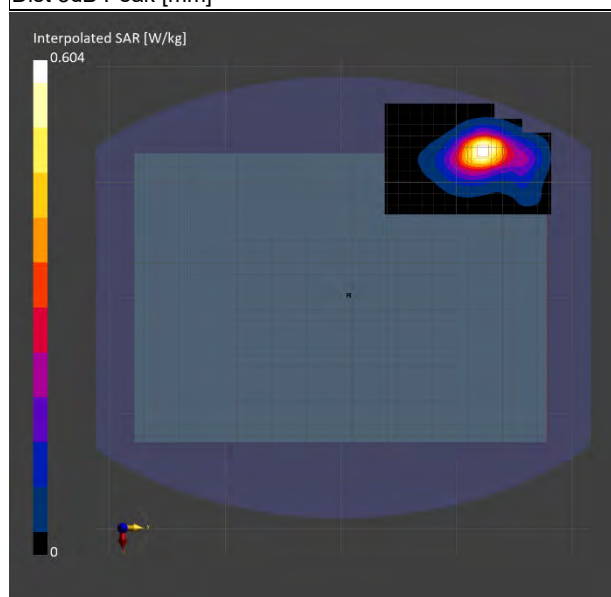
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.490	0.504
psSAR8g [W/kg]	0.283	0.280
psSAR10g [W/kg]	0.260	0.258
Power Drift [dB]	-0.05	-0.03
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		12.1



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ID: 002

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(20M) 2.4G_Body_Bottom Surface_CH 6_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2437.0, 6	7.98	1.87	40.17

Hardware Setup

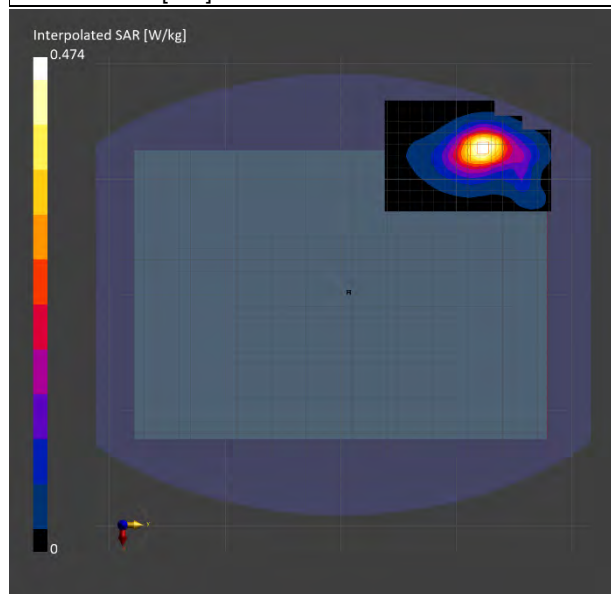
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.385	0.401
psSAR8g [W/kg]	0.223	0.226
psSAR10g [W/kg]	0.205	0.209
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		12.4



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ID: 003

Report No. : TESA2307000392E5

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Main

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2441.0, 39	7.98	1.874	40.163

Hardware Setup

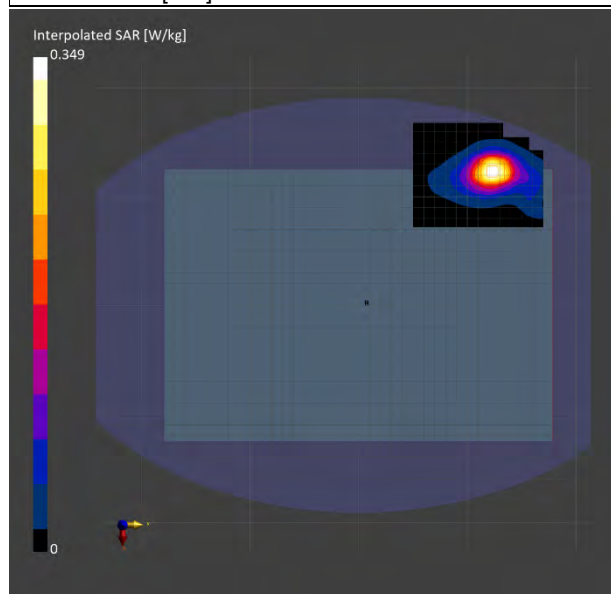
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.281	0.278
psSAR8g [W/kg]	0.159	0.151
psSAR10g [W/kg]	0.146	0.139
Power Drift [dB]	0.02	-0.01
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		11.8



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ID: 004

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.42	4.835	36.898

Hardware Setup

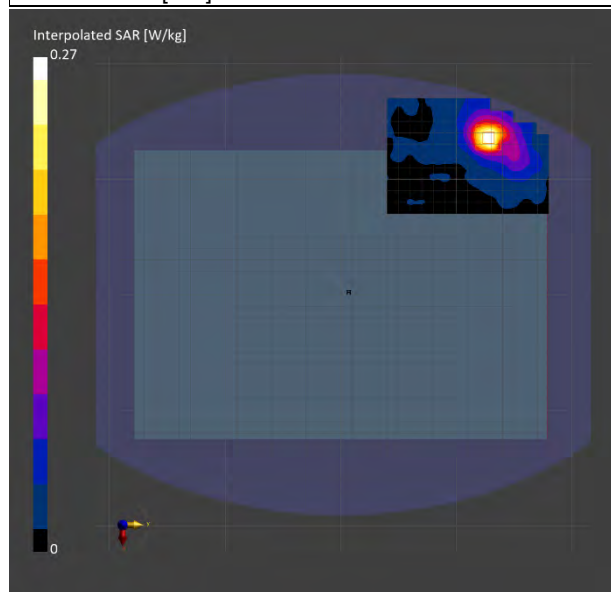
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.202	0.230
psSAR8g [W/kg]	0.087	0.106
psSAR10g [W/kg]	0.078	0.097
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		7.2



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ID: 005

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(40M) 5.3G_Body_Bottom Surface_CH 62_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5310.0, 62	5.42	4.919	36.807

Hardware Setup

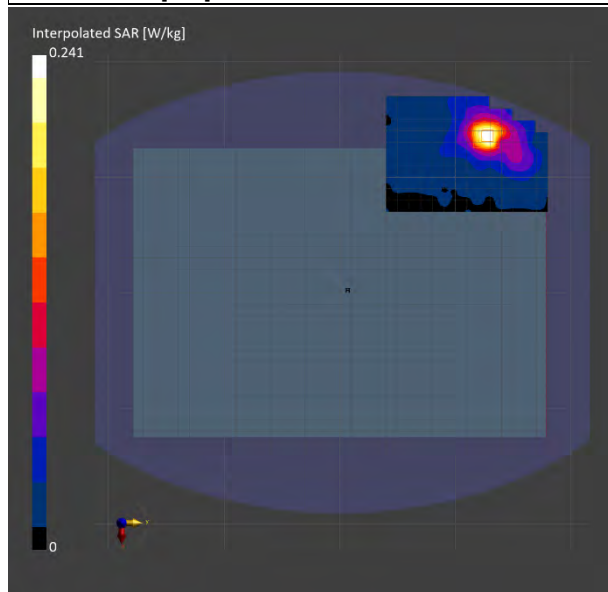
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.182	0.219
psSAR8g [W/kg]	0.079	0.102
psSAR10g [W/kg]	0.070	0.093
Power Drift [dB]	0.03	0.04
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		7.6



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ID: 006

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(40M) 5.6G_Body_Bottom Surface_CH 134_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5670.0, 134	5.05	5.299	36.396

Hardware Setup

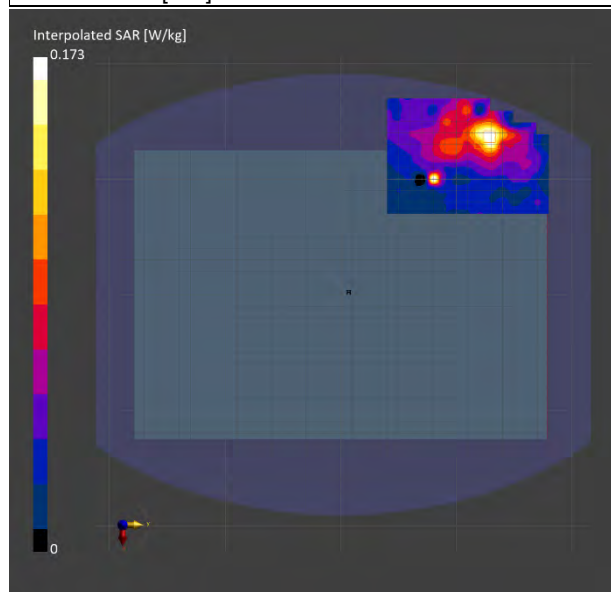
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.131	0.146
psSAR8g [W/kg]	0.057	0.084
psSAR10g [W/kg]	0.052	0.079
Power Drift [dB]	0.01	0.02
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		9.0



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ID: 007

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(20M) 5.8G_Body_Bottom Surface_CH 149_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5745.0, 149	5	5.378	36.31

Hardware Setup

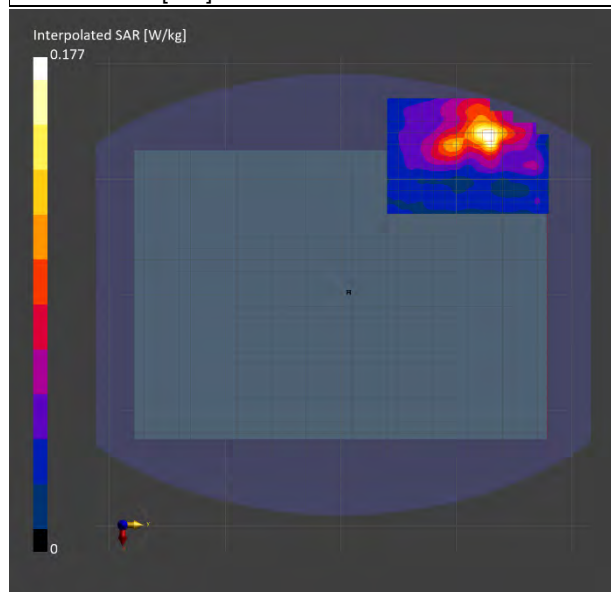
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.135	0.147
psSAR8g [W/kg]	0.060	0.084
psSAR10g [W/kg]	0.054	0.079
Power Drift [dB]	0.04	0.02
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		9.0



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ID: 008

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11n(20M) 5.9G_Body_Bottom Surface_CH 169_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5845.0, 169	5	5.484	36.196

Hardware Setup

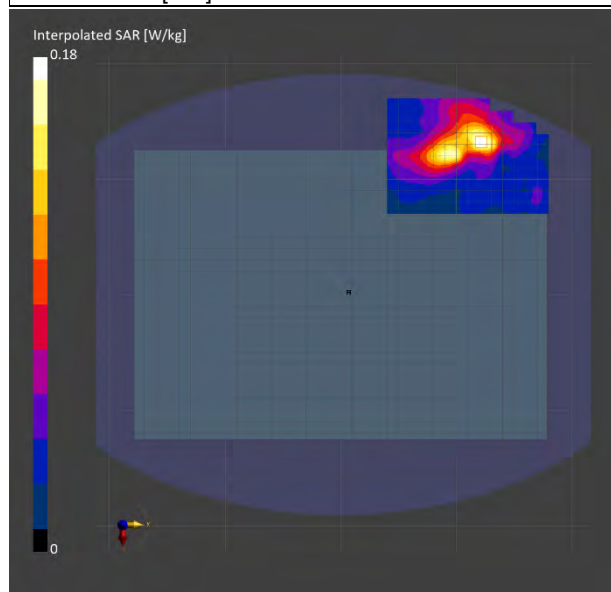
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.134	0.148
psSAR8g [W/kg]	0.059	0.086
psSAR10g [W/kg]	0.054	0.081
Power Drift [dB]	-0.05	-0.02
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		7.9



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ID: 009

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2462.0, 11	7.98	1.893	40.132

Hardware Setup

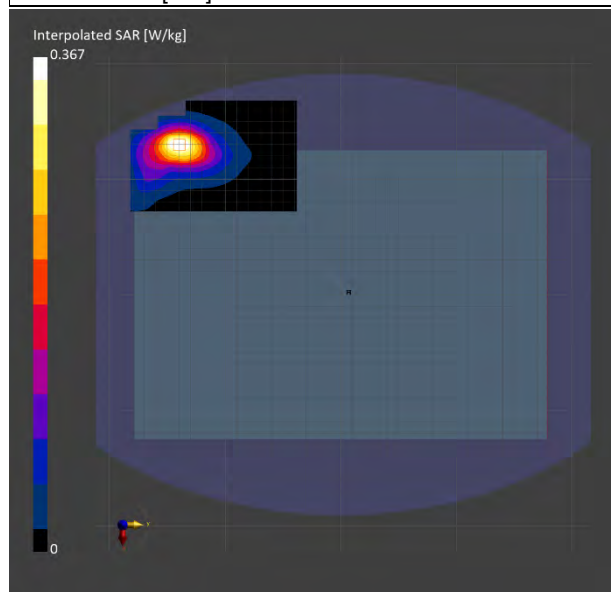
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.298	0.302
psSAR8g [W/kg]	0.170	0.169
psSAR10g [W/kg]	0.157	0.155
Power Drift [dB]	-0.02	0.05
M2/M1 [%]		56.8
Dist 3dB Peak [mm]		11.1



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ID: 010

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(20M) 2.4G_Body_Bottom Surface_CH 6_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2437.0, 6	7.98	1.87	40.17

Hardware Setup

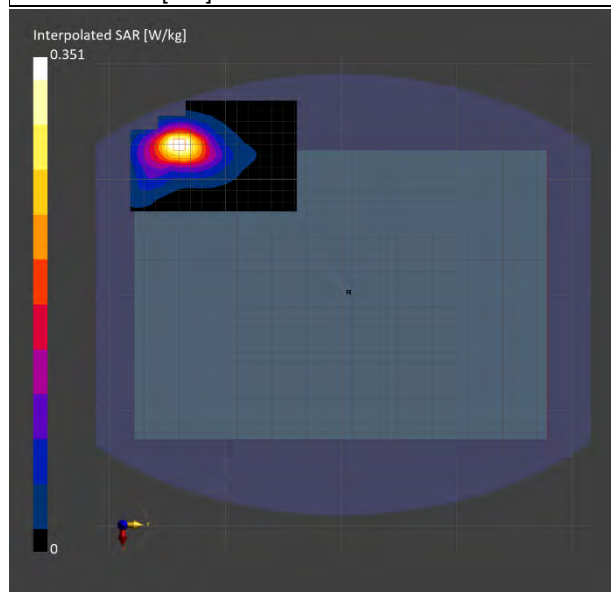
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.285	0.292
psSAR8g [W/kg]	0.163	0.164
psSAR10g [W/kg]	0.150	0.151
Power Drift [dB]	0.04	0.03
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		11.5



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ID: 011

Report No. : TESA2307000392E5

Measurement Report_Bluetooth(GFSK)_Body_Bottom Surface_CH 39_0mm_Aux

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2441.0, 39	7.98	1.874	40.163

Hardware Setup

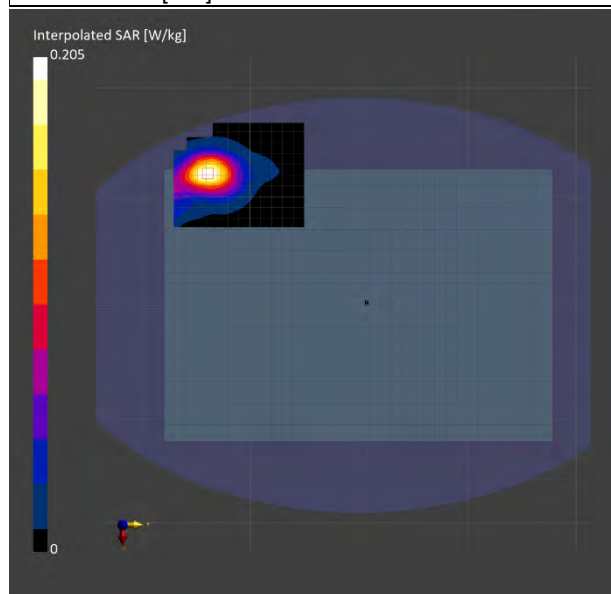
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	0.166	0.169
psSAR8g [W/kg]	0.094	0.096
psSAR10g [W/kg]	0.087	0.089
Power Drift [dB]	0.05	0.02
M2/M1 [%]		59.3
Dist 3dB Peak [mm]		11.8



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ID: 012

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Aux

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.42	4.835	36.898

Hardware Setup

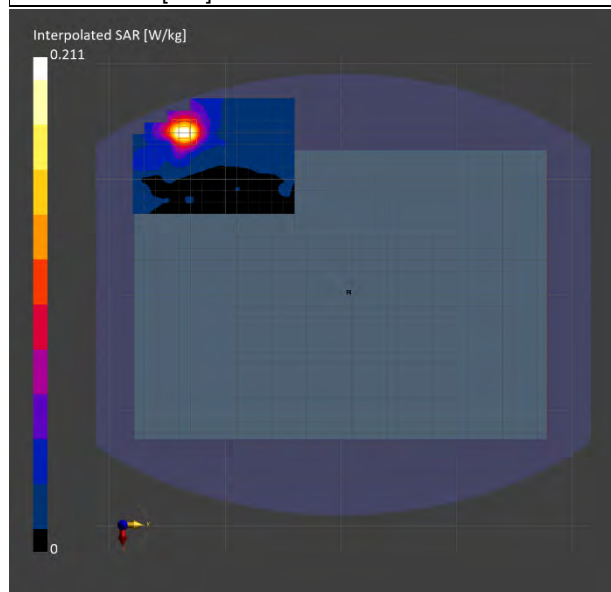
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.154	0.173
psSAR8g [W/kg]	0.064	0.088
psSAR10g [W/kg]	0.057	0.081
Power Drift [dB]	0.01	0.04
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		9.4



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ID: 013

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11n(20M) 5.3G_Body_Bottom Surface_CH 60_0mm_Aux

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5300.0, 60	5.42	4.909	36.818

Hardware Setup

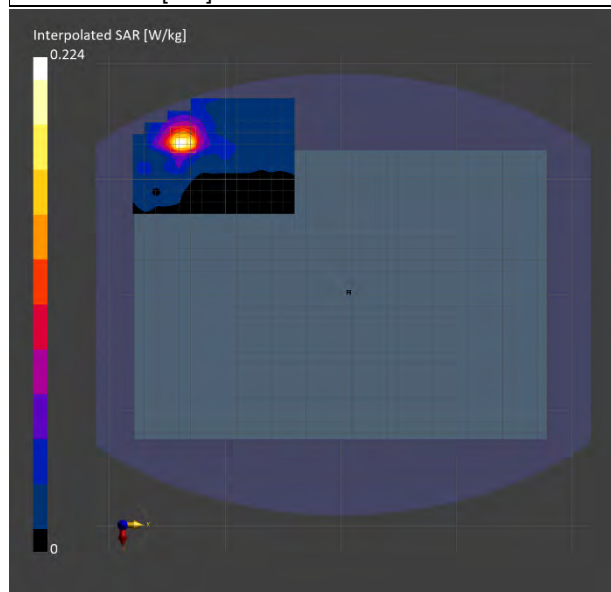
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.155	0.165
psSAR8g [W/kg]	0.063	0.083
psSAR10g [W/kg]	0.056	0.077
Power Drift [dB]	0.02	0.04
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		7.6



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ID: 014

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(40M) 5.6G_Body_Bottom Surface_CH 134_0mm_Aux

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5670.0, 134	5.05	5.299	36.396

Hardware Setup

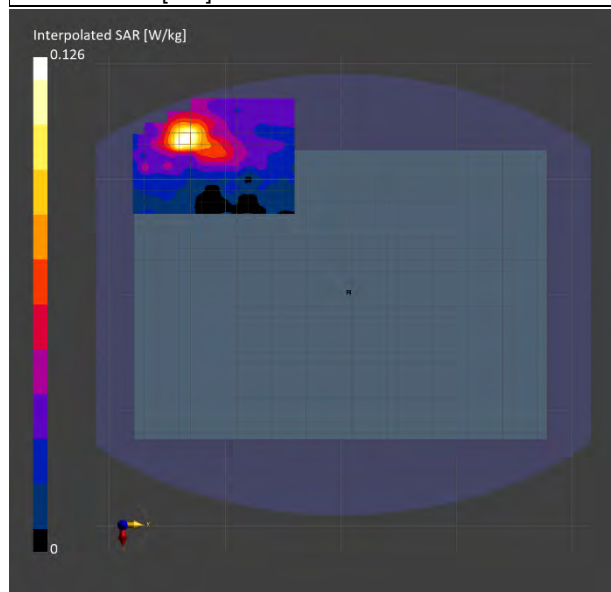
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.097	0.106
psSAR8g [W/kg]	0.044	0.065
psSAR10g [W/kg]	0.039	0.062
Power Drift [dB]	0.03	0.01
M2/M1 [%]		62.9
Dist 3dB Peak [mm]		8.3



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ID: 015

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11be(40M) 5.8G_Body_Bottom Surface_CH 151_0mm_Aux

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5755.0, 151	5	5.389	36.298

Hardware Setup

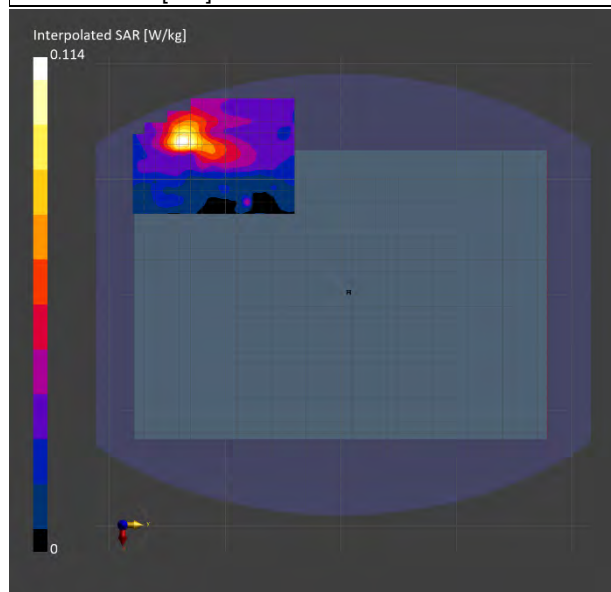
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.084	0.093
psSAR8g [W/kg]	0.037	0.059
psSAR10g [W/kg]	0.034	0.057
Power Drift [dB]	0.02	0.04
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		8.2



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ID: 016

Report No. : TESA2307000392E5

Measurement Report_WLAN 802.11n(20M) 5.9G_Body_Bottom Surface_CH 177_0mm_Aux

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5885.0, 177	4.9	5.526	36.15

Hardware Setup

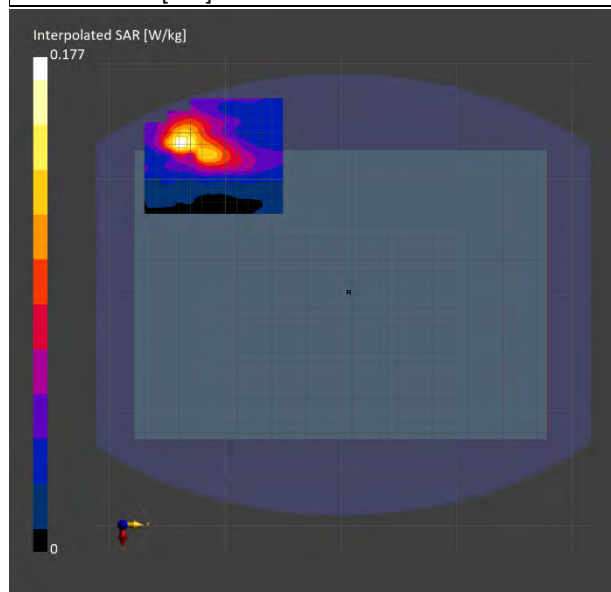
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	0.127	0.143
psSAR8g [W/kg]	0.056	0.085
psSAR10g [W/kg]	0.050	0.080
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		7.3



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ID: 017

Report No. : TESA2307000392E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(40M)_Body_Bottom Surface_CH 3_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5965.0, 3	5.65	5.611	36.058

Hardware Setup

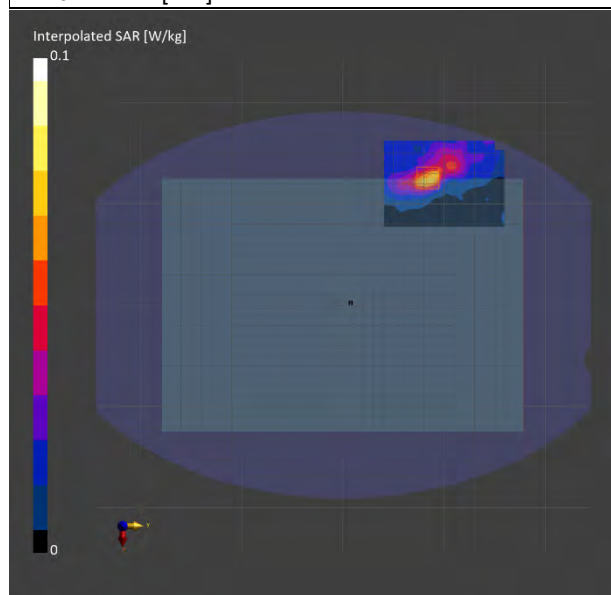
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	24.0. x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.058	0.059
psSAR8g [W/kg]	0.025	0.026
psSAR10g [W/kg]	0.023	0.023
psPDab (4.0cm2, sq) [W/m2]		0.523
Power Drift [dB]	0.05	0.04
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		8.4



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ID: 018

Report No. : TESA2307000392E5

Measurement Report_U-NII-5 6.2GHz 802.11ax(40M)_Body_Bottom Surface_CH 91_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6405.0,91	5.65	6.082	35.532

Hardware Setup

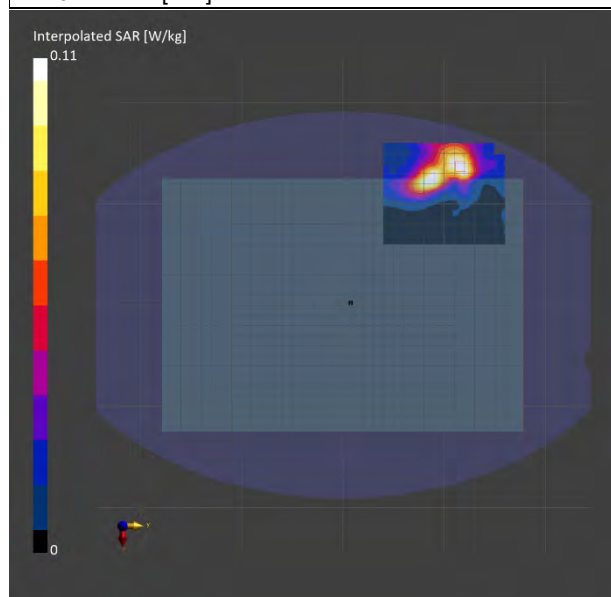
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.088	0.091
psSAR8g [W/kg]	0.040	0.042
psSAR10g [W/kg]	0.036	0.039
psPDab (4.0cm2, sq) [W/m2]		0.846
Power Drift [dB]	0.05	0.01
M2/M1 [%]		58.2
Dist 3dB Peak [mm]		8.1



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ID: 019

Report No. : TESA2307000392E5

Measurement Report_U-NII-6 6.5GHz 802.11be(40M)_Body_Bottom Surface_CH 107_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6485.0, 107	5.65	6.169	35.436

Hardware Setup

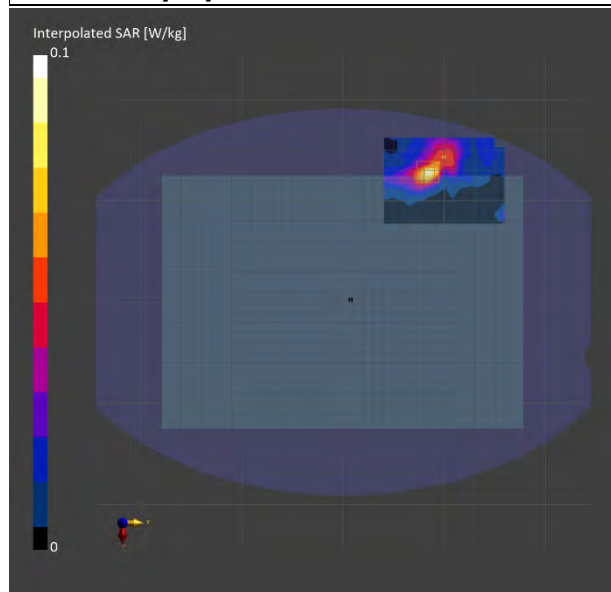
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.067	0.069
psSAR8g [W/kg]	0.028	0.030
psSAR10g [W/kg]	0.025	0.027
psPDab (4.0cm2, sq) [W/m2]		0.602
Power Drift [dB]	-0.05	0.03
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		7.6



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ID: 020

Report No. : TESA2307000392E5

Measurement Report_U-NII-7 6.7GHz 802.11a_Body_Bottom Surface_CH 181_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6855.0, 181	5.65	6.573	34.992

Hardware Setup

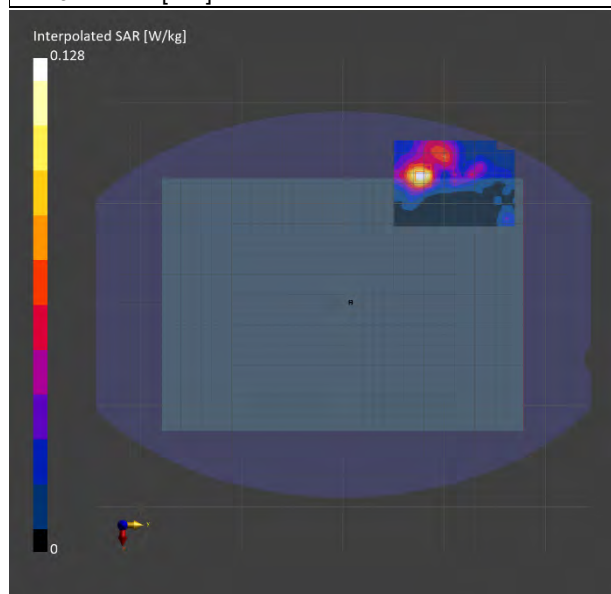
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.102	0.104
psSAR8g [W/kg]	0.041	0.042
psSAR10g [W/kg]	0.037	0.037
psPDab (4.0cm2, sq) [W/m2]		0.838
Power Drift [dB]	0.02	0.03
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		9.5



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ID: 021

Report No. : TESA2307000392E5

Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Bottom Surface_CH 191_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6905.0, 191	5.85	6.628	34.932

Hardware Setup

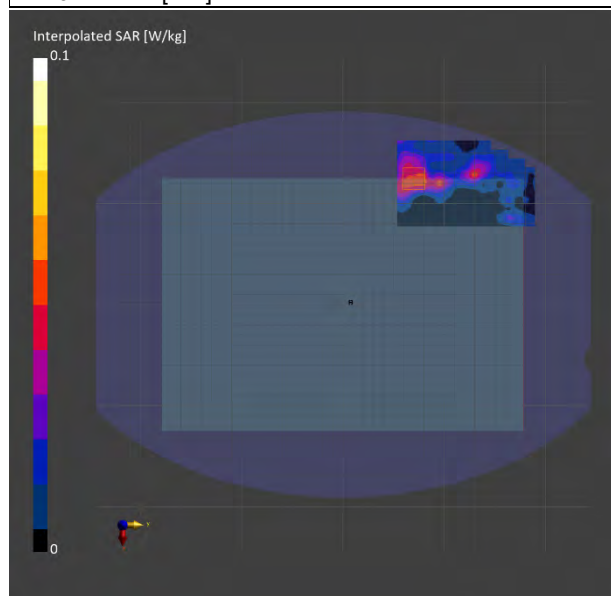
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.073	0.036
psSAR8g [W/kg]	0.034	0.012
psSAR10g [W/kg]	0.031	0.010
psPDab (4.0cm2, sq) [W/m2]		0.241
Power Drift [dB]	0.04	0.01
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		8.7



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ID: 022

Report No. : TESA2307000392E5

Measurement Report_U-NII-5 6.2GHz 802.11a_Body_Bottom Surface_CH 45_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6175.0, 45	5.65	5.835	35.808

Hardware Setup

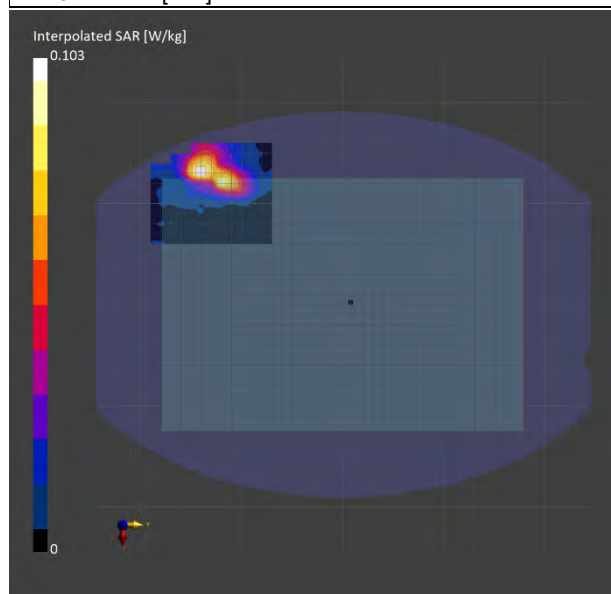
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.077	0.082
psSAR8g [W/kg]	0.033	0.038
psSAR10g [W/kg]	0.030	0.035
psPDab (4.0cm2, sq) [W/m2]		0.767
Power Drift [dB]	0.04	0.01
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		8.0



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ID: 023

Report No. : TESA2307000392E5

Measurement Report_U-NII-5 6.2GHz 802.11a_Body_Bottom Surface_CH 93_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6415.0, 93	5.65	6.093	35.52

Hardware Setup

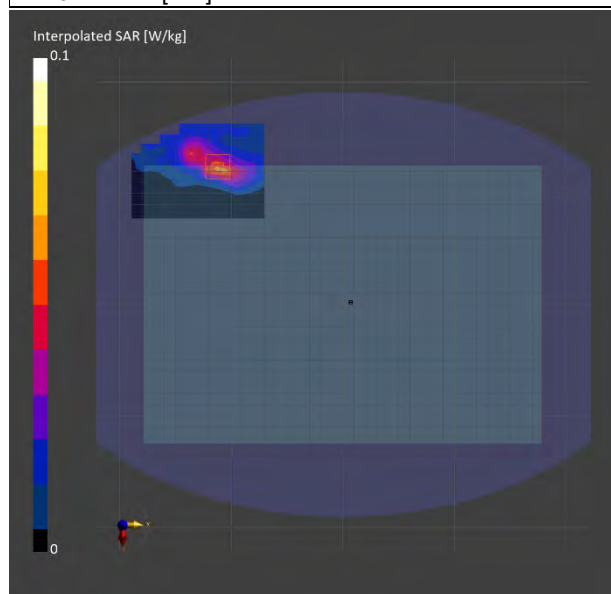
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.047	0.049
psSAR8g [W/kg]	0.020	0.021
psSAR10g [W/kg]	0.018	0.019
psPDab (4.0cm2, sq) [W/m2]		0.425
Power Drift [dB]	0.04	0.05
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		8.9



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ID: 024

Report No. : TESA2307000392E5

Measurement Report_U-NII-6 6.5GHz 802.11be(40M)_Body_Bottom Surface_CH 107_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6485.0, 107	5.65	6.169	35.436

Hardware Setup

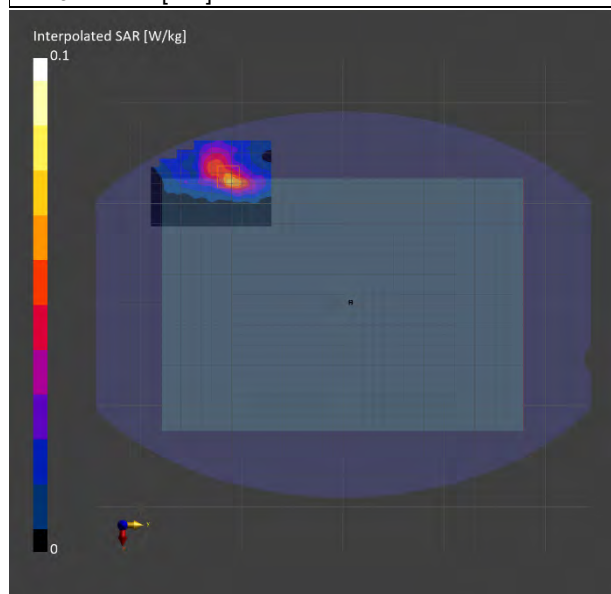
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.054	0.056
psSAR8g [W/kg]	0.023	0.026
psSAR10g [W/kg]	0.021	0.023
psPDab (4.0cm2, sq) [W/m2]		0.515
Power Drift [dB]	0.01	-0.02
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		9.3



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ID: 025

Report No. : TESA2307000392E5

Measurement Report_U-NII-7 6.7GHz 802.11a_Body_Bottom Surface_CH 181_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6855.0, 181	5.65	6.573	34.992

Hardware Setup

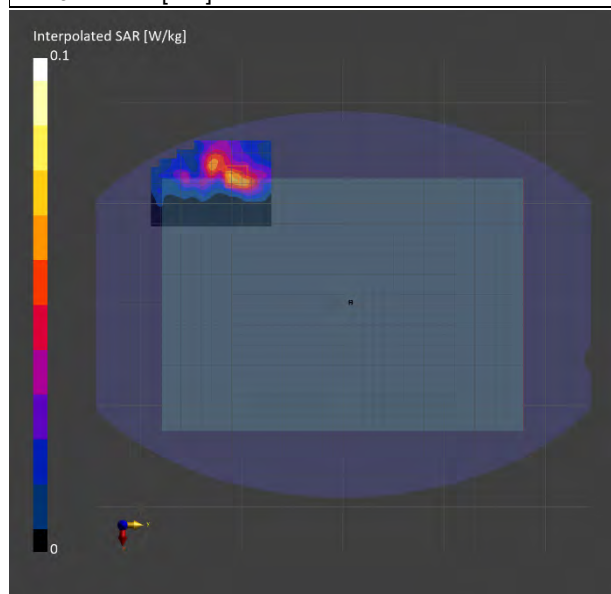
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.059	0.059
psSAR8g [W/kg]	0.026	0.025
psSAR10g [W/kg]	0.024	0.023
psPDab (4.0cm2, sq) [W/m2]		0.506
Power Drift [dB]	-0.06	0.03
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		10.7



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ID: 026

Report No. : TESA2307000392E5

Measurement Report_U-NII-8 7.0GHz 802.11be(320M)_Body_Bottom Surface_CH 191_0mm_Aux

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6905.0, 191	5.85	6.628	34.932

Hardware Setup

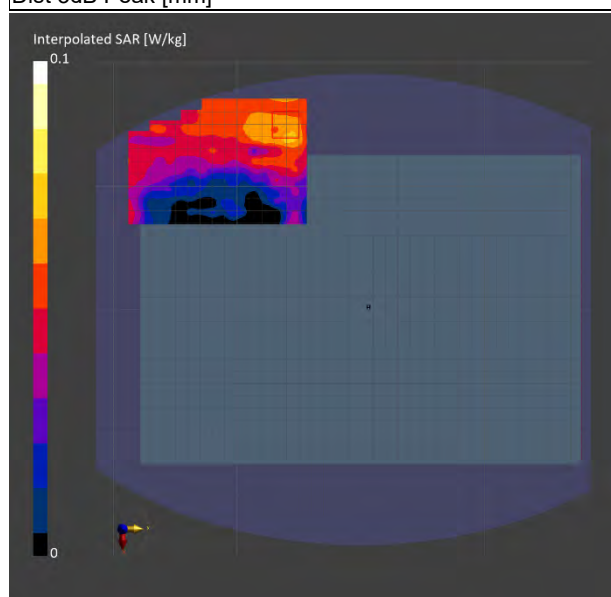
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	0.060	0.015
psSAR8g [W/kg]	0.029	0.012
psSAR10g [W/kg]	0.026	0.012
psPDab (4.0cm2, sq) [W/m2]		0.244
Power Drift [dB]	-0.01	-0.03
M2/M1 [%]		84.0
Dist 3dB Peak [mm]		7.5



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13 PD MEASUREMENT RESULTS

ID: 027

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-5,

IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle), Channel 3 (5965.0 MHz)_Main

Exposure Conditions

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

Hardware Setup

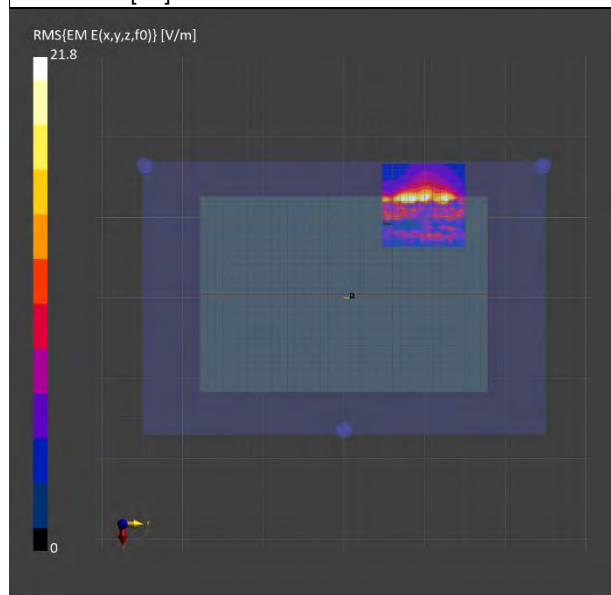
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.320
psPDtot+ [W/m ²]	0.560
psPDmod+ [W/m ²]	0.743
E _{max} [V/m]	21.8
Power Drift [dB]	-0.05



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ID: 028

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle), Channel 91 (6405.0 MHz) _Main
Exposure Conditions

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

Hardware Setup

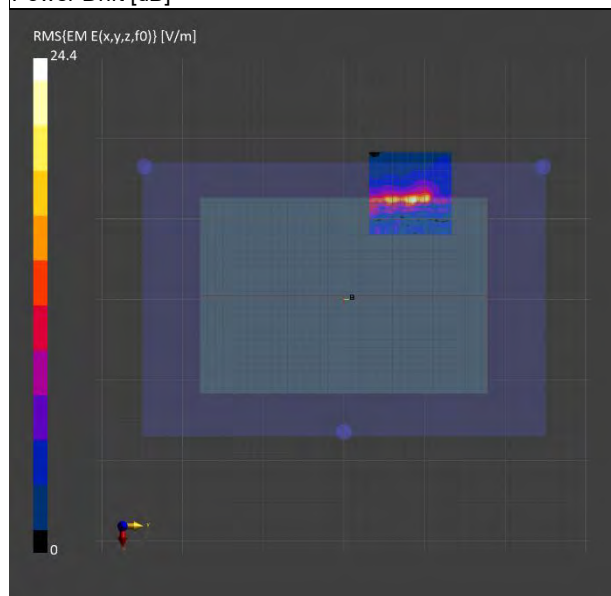
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.238
psPDtot+ [W/m ²]	0.485
psPDmod+ [W/m ²]	0.720
E _{max} [V/m]	24.4
Power Drift [dB]	0.01



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ID: 029

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-6,

IEEE 802.11be (40MHz, MCS0, 90pc duty cycle), Channel 107 (6485.0 MHz)_Main

Exposure Conditions

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

Hardware Setup

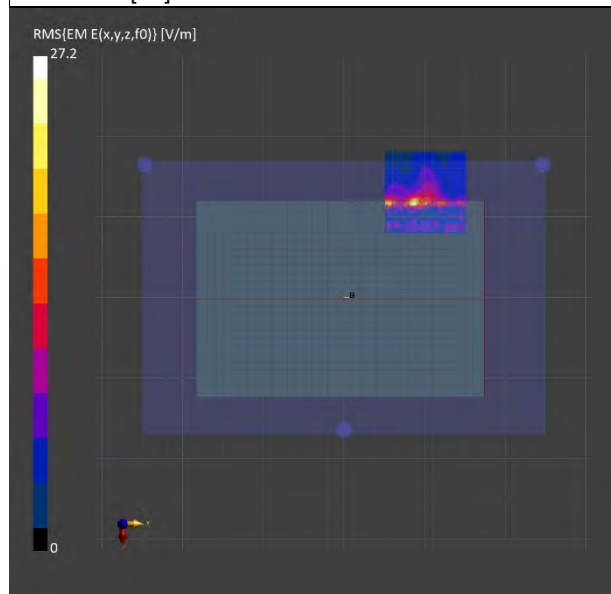
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.242
psPDtot+ [W/m ²]	0.472
psPDmod+ [W/m ²]	0.715
E _{max} [V/m]	27.2
Power Drift [dB]	-0.02



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ID: 030

Report No. : TESA2307000392E5

**Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11a (20MHz, OFDM, 99pc duty cycle), Channel 181 (6855.0 MHz)_Main****Exposure Conditions**

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

Hardware Setup

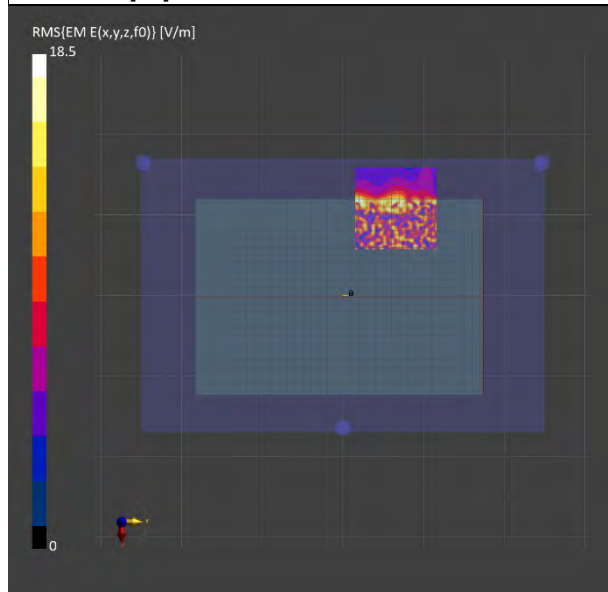
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.163
psPDtot+ [W/m ²]	0.323
psPDmod+ [W/m ²]	0.589
E _{max} [V/m]	18.5
Power Drift [dB]	0.03



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ID: 031

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)_Main**Exposure Conditions**

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

Hardware Setup

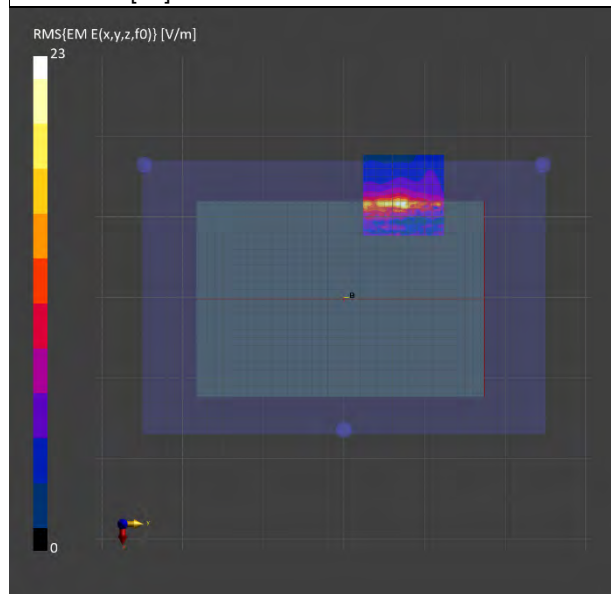
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.184
psPDtot+ [W/m ²]	0.420
psPDmod+ [W/m ²]	0.620
E _{max} [V/m]	23.0
Power Drift [dB]	0.01



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ID: 032

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11a (20MHz, OFDM, 90pc duty cycle), Channel 45 (6175.0 MHz)_Aux**Exposure Conditions**

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

Hardware Setup

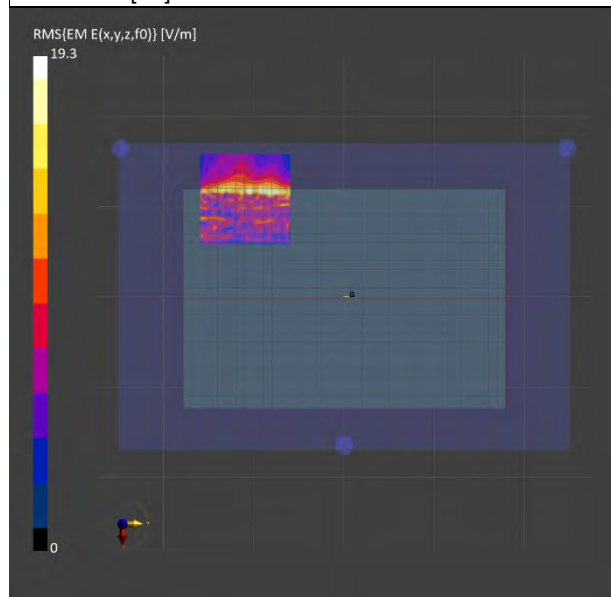
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.228
psPDtot+ [W/m ²]	0.352
psPDmod+ [W/m ²]	0.525
E _{max} [V/m]	19.3
Power Drift [dB]	-0.03



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Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11a (20MHz, OFDM, 90pc duty cycle), Channel 93 (6415.0 MHz)_Aux**Exposure Conditions**

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

Hardware Setup

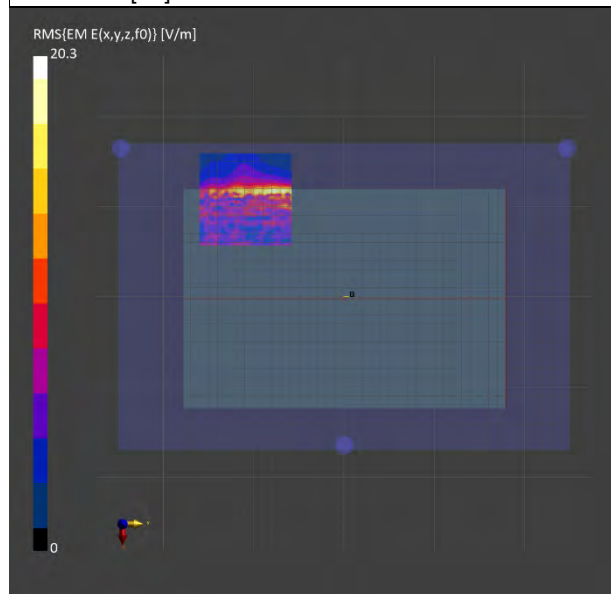
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.170
psPDtot+ [W/m ²]	0.376
psPDmod+ [W/m ²]	0.640
E _{max} [V/m]	20.3
Power Drift [dB]	0.04



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ID: 034

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-6,
IEEE 802.11be (40MHz, MCS0, 90pc duty cycle), Channel 107 (6485.0 MHz)_Aux**Exposure Conditions**

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

Hardware Setup

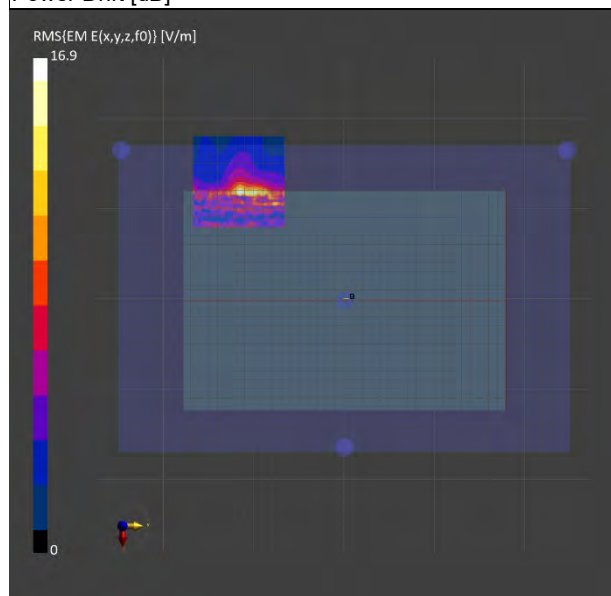
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.147
psPDtot+ [W/m ²]	0.278
psPDmod+ [W/m ²]	0.441
E _{max} [V/m]	16.9
Power Drift [dB]	0.03



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ID: 035

Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11a (20MHz, OFDM, 90pc duty cycle), Channel 181 (6855.0 MHz)_Aux**Exposure Conditions**

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

Hardware Setup

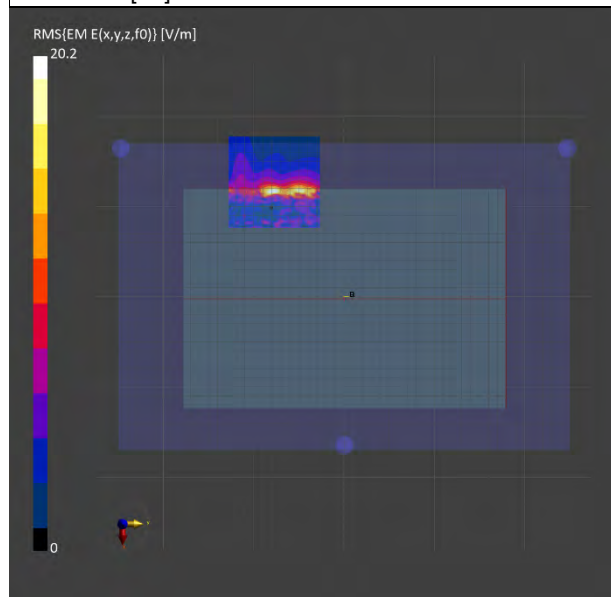
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.211
psPDtot+ [W/m ²]	0.401
psPDmod+ [W/m ²]	0.567
E _{max} [V/m]	20.2
Power Drift [dB]	-0.05



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Report No. : TESA2307000392E5

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11be (320MHz, MCS0, 99pc duty cycle), Channel 191 (6905.0 MHz)_Aux**Exposure Conditions**

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

Hardware Setup

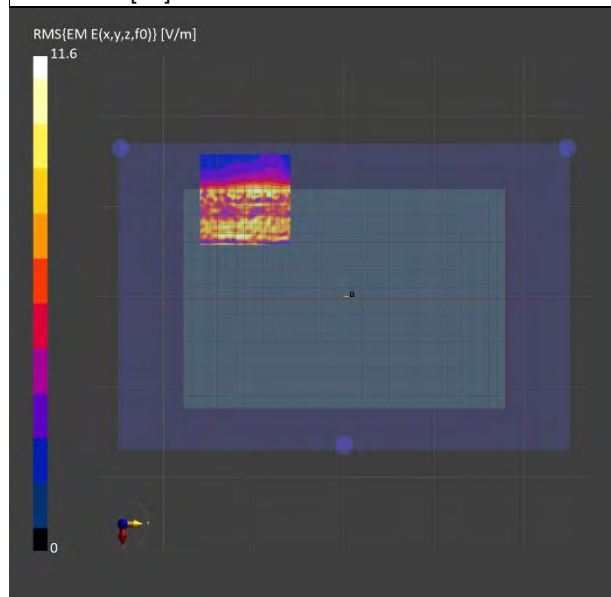
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

Scan Type	5G Scan
Date	2023-07-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.113
psPDtot+ [W/m ²]	0.200
psPDmod+ [W/m ²]	0.299
E _{max} [V/m]	11.6
Power Drift [dB]	0.02



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14 SAR SYSTEM CHECK RESULTS

Report No. : TESA2307000392E5

Measurement Report

Dipole_D2450-SN: 727

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.98	1.882	40.147

Hardware Setup

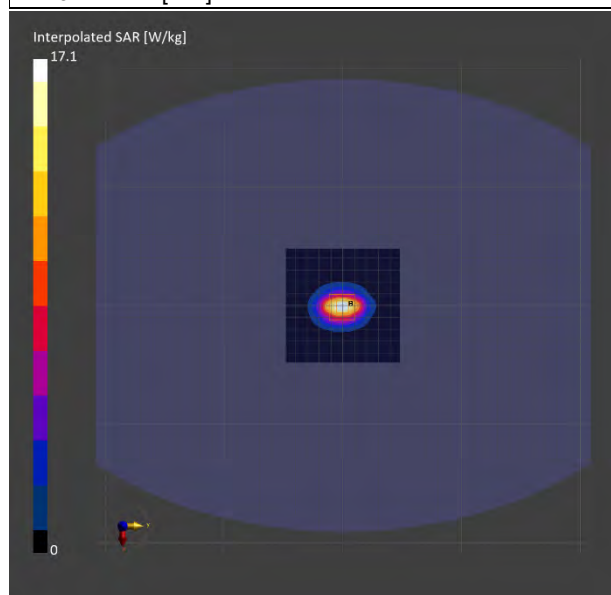
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-20	2023-07-20
psSAR1g [W/kg]	12.9	13.0
psSAR8g [W/kg]	6.58	6.72
psSAR10g [W/kg]	5.95	6.09
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		9.0



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Report No. : TESA2307000392E5

Measurement Report

Dipole_D5250-SN: 1023

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.42	4.856	36.876

Hardware Setup

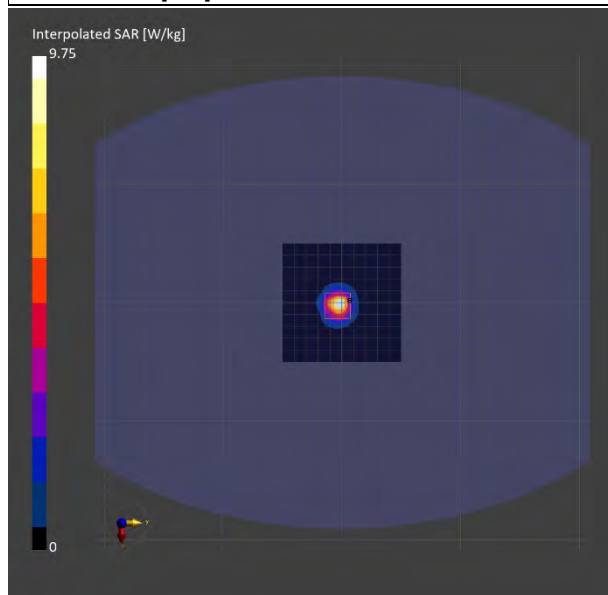
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	6.48	7.86
psSAR8g [W/kg]	2.33	2.72
psSAR10g [W/kg]	2.02	2.35
Power Drift [dB]	-0.02	-0.03
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		7.6



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Report No. : TESA2307000392E5

Measurement Report

Dipole_D5600-SN: 1023

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.05	5.226	36.476

Hardware Setup

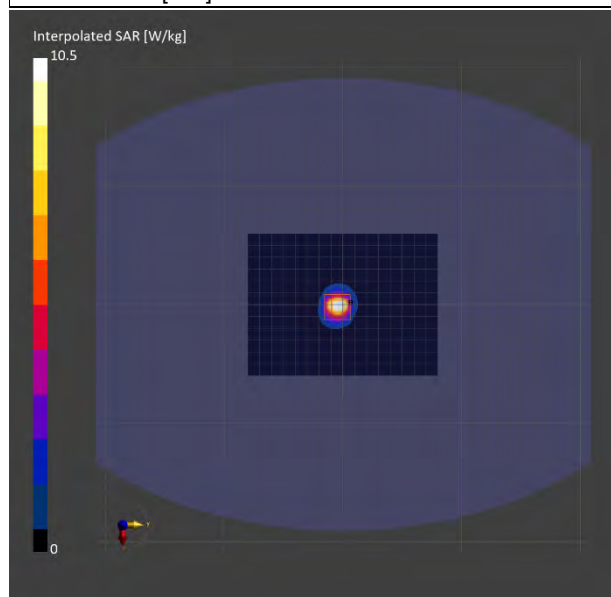
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	7.52	8.18
psSAR8g [W/kg]	2.67	2.73
psSAR10g [W/kg]	2.30	2.35
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		7.6



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Report No. : TESA2307000392E5

Measurement Report

Dipole_D5750-SN: 1023

Ambient temperature: 22.8°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	4.90	5.383	36.304

Hardware Setup

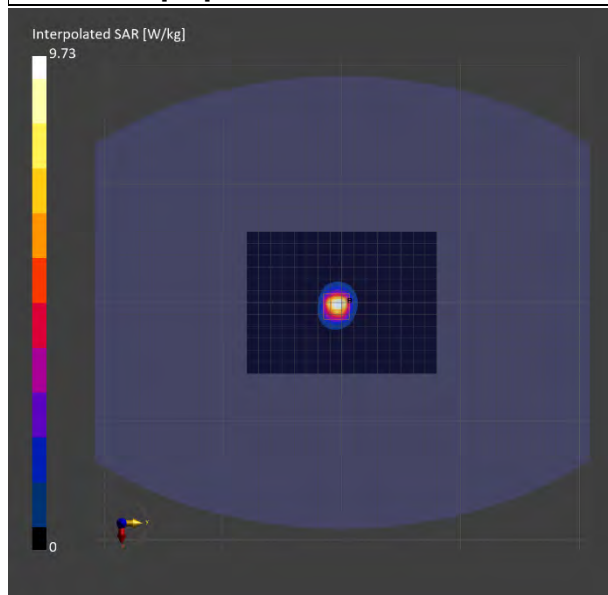
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-21	2023-07-21
psSAR1g [W/kg]	6.96	8.11
psSAR8g [W/kg]	2.51	2.70
psSAR10g [W/kg]	2.17	2.32
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		7.4



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Report No. : TESA2307000392E5

Measurement Report

Dipole_D6500-SN: 1006

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.65	6.185	35.418

Hardware Setup

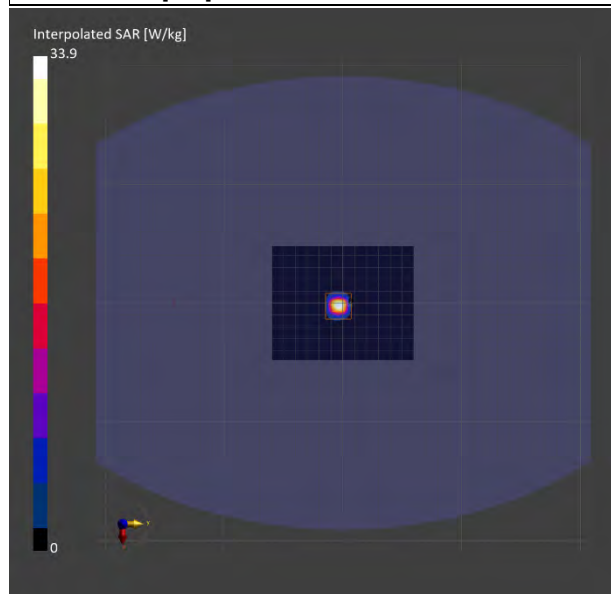
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	102.0 x 119.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	22.2	28.2
psSAR8g [W/kg]	5.81	6.47
psSAR10g [W/kg]	4.81	5.32
psPDab (4.0cm2, sq) [W/m2]		129
Power Drift [dB]	0.01	0.04
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		8.9



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Report No. : TESA2307000392E5

Measurement Report

Dipole_D7000-SN: 1007

Ambient temperature: 22.5°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.85	6.733	34.818

Hardware Setup

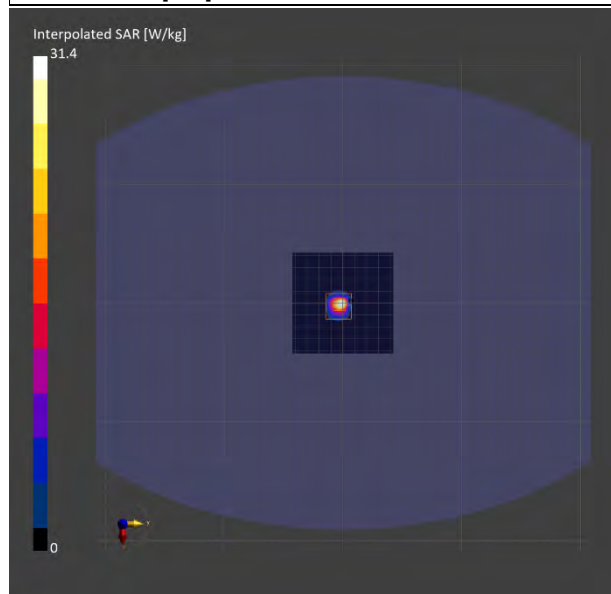
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2023-01-26	DAE4 Sn1665, 2023-02-21

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-22	2023-07-22
psSAR1g [W/kg]	20.7	27.0
psSAR8g [W/kg]	5.46	5.96
psSAR10g [W/kg]	4.54	4.89
psPDab (4.0cm2, sq) [W/m2]		119
Power Drift [dB]	0.04	0.04
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		8.6



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15 PD SYSTEM CHECK RESULTS

Report No. : TESA2307000393E5

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

Exposure Conditions

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

Hardware Setup

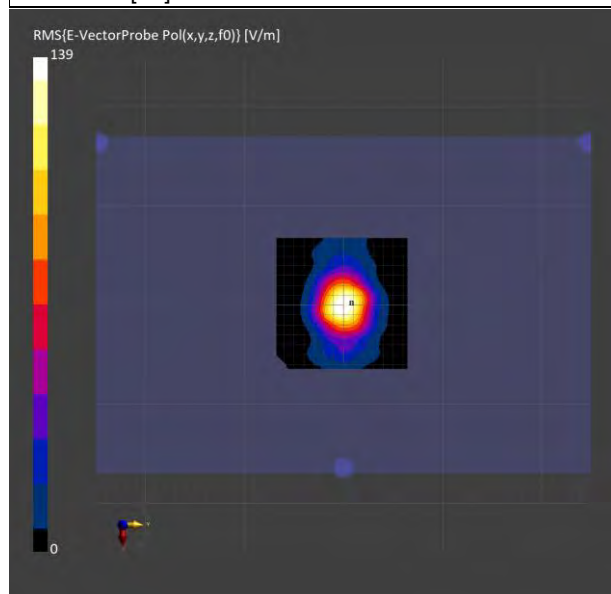
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1106	EUmmWV4 - SN9635_F1-55GHz, 2023-04-20	DAE4 Sn1665, 2023-02-21

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	2023-07-23
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	47.8
psPDtot+ [W/m ²]	48.3
psPDmod+ [W/m ²]	48.8
E _{max} [V/m]	139
Power Drift [dB]	-0.01



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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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