

SAR EVALUATION REPORT

FCC 47 CFR § 2.1093 IEEE Std 1528-2013

For Smart Phone

FCC ID: BCG-E8951A, BCG-E8952A, and BCG-E8953A Model Name: A3519, A3520, and A3521

> Report Number: 15496278-S1V1 Issue Date: 8/13/2025

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Revision History

Rev.	Date	Revisions	Revised By
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1. Attestation of Test Results

Applicant Name	APPLE INC	APPLE INC					
FCC ID	BCG-E8951A, BCG-	BCG-E8951A, BCG-E8952A, and BCG-E8953A					
Model Name	A3519, A3520, and A	\3521					
Applicable Standards	-	FCC 47 CFR § 2.1093 IEEE Std 1528-2013					
			SAR L	imits (W/Kg)			
Exposure Category		spatial-average		Extremities (hands, wrists, ankles, etc.) (10g of tissue)			
General population / Uncontrolled exposure		1.6			4		
DE Evacura Conditions		Exposure C	ondition - H	Highest Repo	rted SAR (W/kg)		
RF Exposure Conditions	Head	Body	Но	otspot	Extremity	NII for ANT 6	
Worst Case from BCG-E8947A (A3258)	1.189	1.168	1.	.190	2.882	1.159	
BCG-E8951A (A3519)	0.990	0.976	1.	.000	2.401	1.082	
BCG-E8952A (A3520)	0.987	0.967	1.	.041	2.500	1.140	
BCG-E8953A (A3521)	1.074	1.088	1.	.088	N/A	1.054	
		Radiofrequency (RF) Radiation Exposure (above 6GHz)					
Exposure Category /		Uncontrolled		☐ Occupational/controlled			
Applicable limit	(mW/cm² ove	(mW/cm² over 4 cm²) 30 min average			(mW/cm ² over 4 cm ²) 6 min average		
		1.0 5					
Worst Case from		Highest Re	ported PD	Result (mW/d	cm ² over 4cm ²)		
BCG-E8947A (A3258)				0.687			
BCG-E8951A (A3519)		0.699					
BCG-E8952A (A3520)		0.682					
BCG-E8953A (A3521)		0.693					
Date Tested	7/16/2025 to 8/13/20	7/16/2025 to 8/13/2025					
Test Results	Pass						

This application for certification is leveraging the data referencing procedure from KDB 484596 D01; Referencing Test Data (Remarks on Test Reductions via Data Referencing for Closely Related Products) based on reference FCC ID: BCG-E8947A (UL SAR report **15496277-S1**) to cover variants FCC ID: BCG-E8951A, BCG-E8952A and BCG-E8953A. The major difference between the reference model and the variant models is the depopulation of the mmWave transmitter in the variant models.

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not considered unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE Std 1528-2013, the following FCC Published RF exposure KDB procedures:

- o 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 484596 D01 Referencing Test Data v03
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- o 941225 D06 Hotspot Mode v02r01
- 941225 D07 UMPC Mini Tablet v01r02

In addition to the above, the following information was used:

- o TCB Workshop October 2014; RF Exposure Procedures (Other LTE Considerations)
- o TCB Workshop April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- TCB Workshop October 2015; RF Exposure Procedures (KDB 941225 D05A)
- TCB Workshop April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- TCB Workshop October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- o TCB Workshop October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- o TCB Workshop October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- TCB Workshop May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- o TCB Workshop May 2017; RF Exposure Procedures (Handheld RFID/Barcode Scanners)
- TCB Workshop May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- TCB Workshop November 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- TCB Workshop April 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion)
- TCB Workshop October 2018; RF Exposure Procedures (LTE Inter-Band Uplink Carrier Aggregation Interim Procedures)
- TCB Workshop April 2019; RF Exposure Procedures (802.11ax SAR Testing)
- TCB Workshop November 2019; RF Exposure Policy Updates (5G NR FR1 NSA EN-DCUE SAR Evaluations)
- TCB workshop October 2020; 5G and RF Exposure Procedures (U-NII 6-7 GHz SAR Testing)
- TCB Workshop April 2021; RF Exposure Procedures (Remarks on Test Reductions via Data Referencing for Closely Related Products)

PD

- 447498 D01 General RF Exposure Guidance v06
- 865664 D02 RF Exposure Reporting v01r02
- 388624 D02 Pre-Approval Guidance List v18r05
- 248227 D01 802.11 Wi-Fi SAR v02r02
- SPEAG DASY8 System Handbook; part 4 DASY8 Module mmWave
- SPEAG DASY8 Application Note: SAR, APD & PD at 6 10 GHz (Version 5), April 2022
- IEC/IEEE 63195-1:2022 Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) - Part 1: Measurement procedure
- o TCB workshop November 2017; RF Exposure Procedures (Power Density Evaluation)
- TCB workshop October 2018; RF Exposure Procedures (Millimeter Wave Assessment)
- o TCB workshop April 2019; RF Exposure Procedures (Millimeter Wave RF Exposure Evaluation)
- o TCB workshop November 2019; RF Exposure Procedures (Millimeter Wave Scan Requirements)
- o TCB workshop October 2020; RF Exposure Procedures (U NII 6-7 GHz RF Exposure)
- o <u>TCB workshop</u> October 2022; RF Exposure Policies and Procedures (f-above-6 GHz Portable Devices)

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

47173 Benicia Street	47266 Benicia Street
SAR Labs A to I	SAR Labs 1 to 26

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05

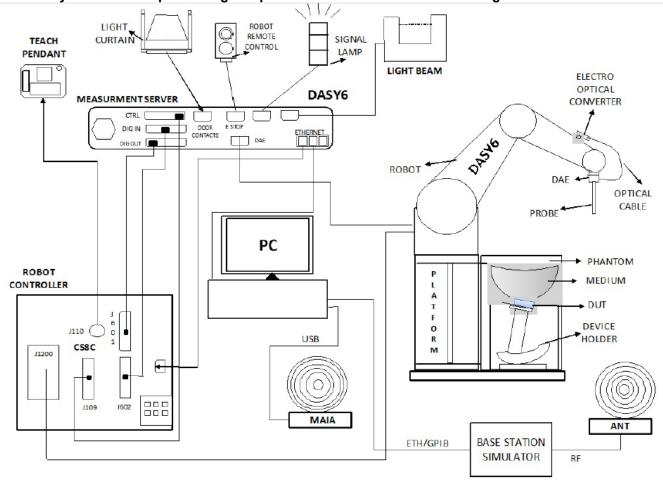
The Test Lab Conformity Assessment Body Identifier (CABID)

Location	CABID	Company Number
47173 Benicia Street, Fremont, CA, 94538 UNITED STATES	1100404	02044
47266 Benicia Street, Fremont, CA, 94538 UNITED STATES	US0104	2324A

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

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, ADconversion, 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 Win10 and the DASY6/8¹ 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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¹ DASY6/8 software used: DASY6.16.2 or DASY8.16.2 and older generations.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEC/IEEE 62209-1528, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°	
	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
		Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Z_{00m}}(n-1)$	
$\begin{array}{c} \text{Minimum zoom scan} \\ \text{volume} \end{array} x, y, z \\ \geq 30 \; \text{mm} \end{array}$		≥ 30 mm	$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

4.3. Power Density Measurement Procedures

4.3.1. System Verification Scan Procedures

cDASY6/8 Module mmWave supports "5G Scan", a fine resolution scan performed on two different planes which is used to reconstruct the E- and H-fields as well as the power density; the average power density is derived from this measurement.

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to devise under test.

Step 2: 5G Scan

The steps in the X, Y, and Z directions are specified in terms of fractions of the signal wavelength, lambda. Area Scan Parameters extracted from SPEAG cDASY6 System Handbook; part 4 cDASY6/8 Module mmWave.

Recommended settings for measurement of verification sources

Frequency	Grid		Grid extent X/Y	Measurement
[GHz]	step		[mm]	points
10	0.125	$\left(\frac{\lambda}{8}\right)$	60/60	18×18
30	0.25	$\left(\frac{\lambda}{4}\right)$	60/60	26×26
45	0.25	$\left(\frac{\lambda}{4}\right)$	42/42	28×28
60	0.25	$\left(\frac{\lambda}{4}\right)$	32.5/32.5	28×28
90	0.25	$\left(\frac{\lambda}{4}\right)$	30/30	38×38

The minimum distance of probe sensors to the verification source surface, horn antenna, is 10 mm for 10 GHz and 5.55mm for 30 GHz and above.

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

When the drift is larger than ± 5 %, the test is repeated from step1.

4.3.2. Scan Procedures

Step 1: Power Reference Measurement

Same as System Verification Scan Procedures step 1.

Step 2: 5G Scan

Same as System Verification Scan Procedures step 2. But measurement area is defined based on TCB workshop April 2019, "A sufficiently large measurement region and proper measurement spatial resolution are required to maintain field reconstruction accuracy".

-Fields at the measurement region boundary should be ~20-30 dB below the peaks

Step 3: Power drift measurement

Same as System Verification Scan Procedures step 3.

When the drift is smaller than ± 5 %, it is considered in the uncertainty budget if drifts larger than 5%, uncertainty is re-calculated.

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4.4. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations and is traceable to recognized national standards.

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
S-Parameter Network Analyzer	Rohde & Schwarz	ZNLE6	171919	2/28/2026
Dielectric Probe kit	SPEAG	DAK-3.5 Probe	1087	9/4/2025
Shorting Block	SPEAG	DAK-3.5 Short	T059	N/A
Thermometer	Fisher Scientific	Traceable	240054866	1/31/2026
Dielectric Probe kit	SPEAG	DAK-12 Probe	167145	1/31/2026
Shorting Block	SPEAG	DAK-12 Short	167145	1/31/2026
Vector Network Analyzer	Copper Mountain Tech	R140N	21130078	1/1/2026
Dielectric Probe kit	SPEAG	DAK-3.5	1103	2/10/2026
Shorting Block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	2/28/2026
Thermometer	Fisher Scientific	Traceable	240029160	1/31/2026
S-Parameter Network Analyzer	Rohde & Schwarz	ZNLE6	3.0012K56-101274	2/28/2026
Dielectric Probe kit	SPEAG	DAK-3.5	1082	4/14/2026
Shorting Block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	4/14/2026
Thermometer	Fisher Scientific	Traceable	240029257	1/31/2026

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	R&S	SMB100A	168412	1/31/2026
Wideband Pow er Sensor	Agilent	N1921A	80119	1/31/2026
Pow er Sensor	R&S	NRP18A	171443	2/28/2026
Pow er Meter	HP	437B	82600	1/31/2026
Directional coupler	Mini-circuits	ZUDC10-183+	PRE0181620	N/A
Multimeter	Fluke	26111	81103	1/31/2026
Multimeter	Fluke	87	29458	1/31/2026
Pow er Meter	Keysight	N1911A	1684412	1/31/2026
DC Pow er Supply	HP	6296A	T1363	N/A
DC Pow er Supply	Sorensen	XT 15-4	PRE0178948	N/A
Pow er Source	SPEAG	POWERSOURCE1	4371	4/1/2025
Pow er Source	SPEAG	POWERSOURCE1	4378	5/9/2025
Pow er Source	SPEAG	POWERSOURCE1	4348	12/11/2025
Signal Generator	R&S	SMB100A	6.6000K03-180968	2/28/2026
DC Pow er Supply	Sorensen Ametek	XT 15-4	1319A02780	N/A
Pow er Sensor	Agilent	8481A	2349A36506	9/16/2016
Pow er Sensor	Agilent	8481A	3318A92374	9/16/2016
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Bi-directional coupler	Werlatone	C8060-102	4062	N/A
Bi-directional coupler	Mini-Circuits	ZUDC10-183+	1722	N/A
Bi-directional coupler	Werlatone	C8060-102	2149	N/A

Note(s):

^{*}Equipment not used past calibration due date.

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3686	1/13/2026
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	3990	2/7/2026
E-Field Probe (SAR Lab 2)	SPEAG	EX3DV4	7914	3/17/2026
E-Field Probe (SAR Lab 14)	SPEAG	EX3DV4	7356	3/10/2026
E-Field Probe (SAR Lab 24)	SPEAG	EX3DV4	7335	1/13/2026
E-Field Probe (SAR Lab 22)	SPEAG	EUmmWV4	9619	3/5/2026
E-Field Probe (SAR Lab 23)	SPEAG	EUmmWV4	9532	2/17/2026
E-Field Probe (SAR Lab 25)	SPEAG	EUmmWV4	9493	1/13/2026
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1357	1/13/2026
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1545	2/6/2026
Data Acquisition Electronics (SAR Lab 2)	SPEAG	DAE4ip	1893	3/18/2026
Data Acquisition Electronics (SAR Lab 14)	SPEAG	DAE4	1239	3/10/2026
Data Acquisition ⊟ectronics (SAR Lab 24)	SPEAG	DAE4ip	1892	3/4/2026
Data Acquisition Electronics (SAR Lab 22)	SPEAG	DAE4	1540	1/8/2026
Data Acquisition Electronics (SAR Lab 23)	SPEAG	DAE4	1548	2/7/2026
Data Acquisition Electronics (SAR Lab 25)	SPEAG	DAE4	1716	3/11/2026
System Validation Dipole	SPEAG	D1640V2	324	6/13/2026
System Validation Dipole	SPEAG	D1750V2	1050	4/19/2026
System Validation Dipole	SPEAG	D2600V2	1006	10/13/2025
System Validation Dipole	SPEAG	D3700V2	1039	4/11/2026
System Validation Dipole	SPEAG	D5GHzV2	1168	2/6/2026
System Validation Dipole	SPEAG	D5GHzV2	1138	2/3/2026
5G Verification Source	SPEAG	10GHz	1015	9/6/2025

Note(s):

Dipole Calibration Date has been extended past 1 year. Impedance measurements have been performed to validate Dipole performance.

Other

<u>Ouiei</u>				
Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R&S	CMW500	124593-SS	2/28/2026
Base Station Simulator	R&S	CMW500	135384	2/28/2026
Base Station Simulator	R&S	CMW500	137873	2/28/2026
Base Station Simulator	R&S	CMW500	259688	3/31/2026
Pow er Meter	Keysight	N1911A	MY55196015	1/31/2026
Pow er Meter	Keysight	N1921A	MY55296004	1/31/2026
Pow er Sensor	Aligent	N1921A	MY53260010	1/31/2026

5. Measurement Uncertainty

SAR

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. Therefore, the measurement uncertainty is not required.

Power Density

	<u></u>						
	а	b	С	d f(d,k)	е	f = b×e/d	g
	Error Description	Unc.Value (±dB)	Probab. Distri.	Div.	ci	Std. Unc. (±dB)	vi
Uncertain	ty terms dependent on the measuremer	nt system					
CAL	Calibration Repeatability	0.49	Normal	1	1	0.49	8
COR	Probe correction	0	Rectangular	1.732	1	0.00	∞
FRS	Frequency response (BW 1 GHz)	0.20	Rectangular	1.732	1	0.12	∞
SCC	Sensor cross coupling	0	Rectangular	1.732	1	0.00	∞
ISO	Isotropy	0.50	Rectangular	1.732	1	0.29	∞
LIN	Linearity	0.20	Rectangular	1.732	1	0.12	∞
PSC	Probe scattering	0	Rectangular	1.732	1	0.00	∞
PPO	Probe positioning o set	0.30	Rectangular	1.732	1	0.17	∞
PPR	Probe positioning repeatability	0.04	Rectangular	1.732	1	0.02	∞
SMO	Sensor mechanical o set	0	Rectangular	1.732	1	0.00	∞
PSR	Probe spatial resolution	0	Rectangular	1.732	1	0.00	∞
FLD	Field impedance dependance	0	Rectangular	1.732	1	0.00	∞
APD	Amplitude and phase drift	0	Rectangular	1.732	1	0.00	∞
APN	Amplitude and phase noise	0.04	Rectangular	1.732	1	0.02	∞
TR	Measurement area truncation	0	Rectangular	1.732	1	0.00	∞
DAQ	Data acquisition	0.03	Normal	1	1	0.03	8
SMP	Sampling	0	Rectangular	1.732	1	0.00	8
REC	Field reconstruction	0.60	Rectangular	1.732	1	0.35	∞
TRA	Forward transformation	0	Rectangular	1.732	1	0.00	8
SCA	Power density scaling	-	Rectangular	1.732	1	-	∞
SAV	Spatial averaging	0.10	Rectangular	1.732	1	0.06	∞
SDL	System detection limit	0.04	Rectangular	1.732	1	0.02	∞
Uncertain	ty terms dependent on the DUT and env	rironmental fa	actors				
PC	Probe coupling with DUT	0	Rectangular	1.732	1	0	∞
MOD	Modulation response	0.40	Rectangular	1.732	1	0.23	∞
IT	Integration time	0	Rectangular	1.732	1	0	∞
RT	Response time	0	Rectangular	1.732	1	0	∞
DH	Device holder influence	0.10	Rectangular	1.732	1	0.06	∞
DAQ	DUT alignment	0	Rectangular	1.732	1	0	∞
AC	RF ambient conditions	0.04	Rectangular	1.732	1	0.02	∞
AR	Ambient reflections	0.04	Rectangular	1.732	1	0.02	∞
MSI	Immunity / secondary reception	0	Rectangular	1.732	1	0	∞
DRI	Drift of the DUT	0.21	Rectangular	1.732	1	0.12	∞
Combined	Standard Uncertainty Uc(f) =		RSS			0.76	∞
Expanded	Uncertainty U, Coverage Factor = 2, > 95	% Confidence	=			1.52	

6. Dielectric Property Measurements & System Check

6.1. SAR Dielectric Property Measurements and System Checks

The temperature of the tissue-equivalent medium used during measurement must also be within 18° C to 25° C and within $\pm 2^{\circ}$ C of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3-4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

The dielectric constant (ϵ r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within \pm 5% of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ r and σ may be relaxed to \pm 10%. This is limited to frequencies \leq 3 GHz.

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Н	ead	Во	dy
raiget Frequency (MHZ)	ε _r	σ (S/m)	$\epsilon_{\rm r}$	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

6.2. System Check

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking
 of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom).
 The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to
 the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole. For 5 GHz band The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
 For 5 GHz band Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

				Liq	uid Check											System C							
SAR		Tissue	Band	Freq.	Relation	ve Permittivi	ty (er)		Conductivity	(o)		Dipole Type	Dipole	Input		asured resu				asured resu			Plot
Lab	Date	Туре	(MHz)	(MHz)	Measured	Target	Delta	M easure d	Target	Delta	Date	& Serial Number	Cal. Due Date	Power (dBm)	Meas. Zoom	Normalize to 1 W	Target (Ref.	Delta ±10%	Meas. Zoom	Normalize to 1 W	Target (Ref.	Delta ±10%	No.
				2600	42.04	39.01	7.76%	1.91	1.96	-2.71%													
SARE	8/7/2025	Head	2600	2495	42.20	39.14	7.81%	1.82	1.85	-1.50%	8/8/2025	D2600V2 SN: 1006	10/13/2025	20.0	5.120	51.200	56.100	-8.73%	2.400	24.000	25.400	-5.51%	1
				2690	41.91	38.90	7.75%	1.98	2.06	-3.71%	1												
				3700	41.24	37.70	9.39%	2.84	3.12	-8.77%													
SARH	8/7/2025	Head	3700	3600	41.33	37.82	9.29%	2.76	3.01	-8.46%	8/7/2025	D3700V2 SN: 1039	4/11/2026	20.0	6.640	66.400	67.800	-2.06%	2.540	25.400	25.100	1.20%	2
				3800	41.08	37.59	9.29%	2.95	3.22	-8.37%	1												
				5750	35.15	35.36	-0.60%	4.93	5.21	-5.38%													
SAR 2	7/30/2025	Head	5750	5700	35.12	35.42	-0.85%	4.86	5.16	-5.82%	7/30/2025	D5GHzV2 SN: 1168 (5.75 GHz)	2/6/2026	17.0	3.790	75.620	79.400	-4.76%	1.100	21.948	22.500	-2.45%	3
				5850	34.96	35.30	-0.96%	5.11	5.32	-4.02%													
				5750	33.48	35.36	-5.32%	4.98	5.21	-4.52%													
SAR 2	8/13/2025	Head	5750	5700	33.50	35.42	-5.42%	4.90	5.16	-5.05%	8/13/2025	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2026	17.0	3.650	72.827	78.300	-6.99%	1.060	21.150	22.200	-4.73%	4
				5850	33.32	35.30	-5.61%	5.16	5.32	-3.01%													
				1640	40.00	40.25	-0.63%	1.21	1.31	-7.65%													
SAR 14	7/19/2025	Head	1640	1610	40.09	40.30	-0.52%	1.19	1.29	-7.60%	7/19/2025	D1640V2 SN: 324	6/13/2026	17.0	1.630	32.523	33.900	-4.06%	0.895	17.858	18.300	-2.42%	5
				1665	39.91	40.22	-0.76%	1.22	1.32	-7.57%													
				1750	38.84	40.08	-3.10%	1.31	1.37	-4.16%													
SAR 24	8/8/2025	Head	1750	1695	38.91	40.17	-3.13%	1.28	1.34	-4.11%	8/8/2025	D1750V2 SN: 1050	4/19/2026	17.0	1.790	35.715	36.100	-1.07%	0.968	19.314	18.900	2.19%	6
				1780	38.79	40.04	-3.12%	1.33	1.39	-4.25%													

6.3. Power Density System Performance Check

Per Nov 2017, TCB Workshop

System validation is required before a system is deployed for measurement.

System check is also required before each series of continuous measurement and, as applicable, repeated at least weekly.

Peak and spatially averaged power density at the peak location(s) must be compared to calibrated results according to the defined test conditions:

- The same spatial resolution and measurement region used in the waveguide calibration should be applied to system validation and system check.
- 1 cm² and 4 cm² spatial averaging have been recommended in the AHG10 draft TR with reference targets available for specific waveguide.
- power density distribution should also be verified, both spatially (shape) and numerically (level) through visual inspection for noticeable differences.
- the measured results should be within 10% of the calibrated targets.
- The measured power density (PD) value is within ±1.2 dB of the target level; for the 5G verification source's uncertainty, please refer to Appendix G.

The system components, software settings and other system parameters shall be the same as those used for the compliance tests. The system check shall be performed at the closest probe calibration frequency point as in the compliance tests, e.g., if the EUT operates at 35 GHz, it is recommended to perform the validation at 30 GHz.

System Validations

SAR Lab	Test Date	5G Verification Source	Source Cal. Due Date	Averaging Type	Input Power System Cart (dBm)		Meas. 4 cm ² psPDn+(W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² psPDn+(W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDtot+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDtot+ (W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDmod+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDm od+ (W/m ²)	Deviation (dB)
22	4/16/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	28.7	57.3	56.4	0.07	29.3	58.5	56.7	0.13	29.5	58.9	56.9	0.15
22	4/16/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	29.1	58.1	56.4	0.13	29.5	58.9	56.7	0.16	29.7	59.3	56.9	0.18
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.9	55.7	56.4	-0.06	28.1	56.1	56.7	-0.05	28.3	56.5	56.9	-0.03
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.8	55.5	56.4	-0.07	28.4	56.7	56.7	0.00	28.5	56.9	56.9	0.00
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.5	54.9	56.4	-0.12	27.6	55.1	56.7	-0.13	27.7	55.3	56.9	-0.13
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.6	55.1	56.4	-0.10	27.8	55.5	56.7	-0.10	28.0	55.9	56.9	-0.08
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	28.1	56.1	56.4	-0.03	28.3	56.5	56.7	-0.02	28.4	56.7	56.9	-0.02
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.8	55.5	56.4	-0.07	28.4	56.7	56.7	0.00	28.5	56.9	56.9	0.00
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.7	55.3	56.4	-0.09	27.8	55.5	56.7	-0.10	28.0	55.9	56.9	-0.08
22	4/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	17.0	20.0	27.3	54.5	56.4	-0.15	27.6	55.1	56.7	-0.13	27.7	55.3	56.9	-0.13
						Average	28.0	55.8	56.4	-0.05	28.3	56.4	56.7	-0.02	28.4	56.7	56.9	-0.01
SAR Lab	Test Date	5G Verification Source	Source Cal. Due Date	Averaging Type	Input Power System Cart (dBm)	Input Power Source Cal. (dBm)	Meas. 4 cm ² psPDn+(W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² psPDn+(W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDtot+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDtot+ (W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDmod+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDm od+ (W/m ²)	Deviation (dB)
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	34.9	55.3	56.4	-0.08	35.2	55.8	56.7	-0.07	35.4	56.1	56.9	-0.06
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	36.1	57.2	56.4	0.06	36.3	57.5	56.7	0.06	36.5	57.8	56.9	0.07
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	34.2	54.2	56.4	-0.17	35.1	55.6	56.7	-0.08	35.3	55.9	56.9	-0.07
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	35.7	56.6	56.4	0.01	36.1	57.2	56.7	0.04	36.2	57.4	56.9	0.04
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	35.7	56.6	56.4	0.01	35.8	56.7	56.7	0.00	36.0	57.1	56.9	0.01
23	4/22/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	35.8	56.7	56.4	0.03	36.4	57.7	56.7	0.08	36.7	58.2	56.9	0.10
23	4/23/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	35.3	55.9	56.4	-0.04	35.7	56.6	56.7	-0.01	35.9	56.9	56.9	0.00
23	4/23/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	37.4	59.3	56.4	0.22	37.5	59.4	56.7	0.20	37.7	59.8	56.9	0.21
23	4/23/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	36.6	58.0	56.4	0.12	36.9	58.5	56.7	0.13	37.1	58.8	56.9	0.14
23	4/23/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	18.0	20.0	36.8	58.3	56.4	0.15	37.0	58.6	56.7	0.15	37.2	59.0	56.9	0.15
						Average	35.9	56.8	56.4	0.03	36.2	57.4	56.7	0.05	36.4	57.7	56.9	0.06
SAR Lab	Test Date	5G Verification Source	Source Cal. Due Date	Averaging Type	Input Power System Cart (dBm)	Input Power Source Cal. (dBm)	Meas. 4 cm ² psPDn+(W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² psPDn+(W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDtot+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDtot+ (W/m ²)	Deviation (dB)	Meas. 4 cm ² psPDmod+ (W/m ²)	Normalized to 20 dBm (W/m²)	Target 4 cm ² ps PDm od+ (W/m ²)	Deviation (dB)
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	44.1	55.5	56.4	-0.07	44.4	55.9	56.7	-0.06	44.7	56.3	56.9	-0.05
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	43.8	55.1	56.4	-0.10	44.6	56.1	56.7	-0.04	44.9	56.5	56.9	-0.03
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	44.2	55.6	56.4	-0.06	44.5	56.0	56.7	-0.05	44.7	56.3	56.9	-0.05
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	42.0	52.9	56.4	-0.28	42.3	53.3	56.7	-0.27	42.6	53.6	56.9	-0.26
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	41.3	52.0	56.4	-0.35	41.5	52.2	56.7	-0.36	41.7	52.5	56.9	-0.35
25	5/13/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	43.1	54.3	56.4	-0.17	43.3	54.5	56.7	-0.17	43.6	54.9	56.9	-0.16
25	5/14/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	48.4	60.9	56.4	0.34	49.9	62.8	56.7	0.45	50.3	63.3	56.9	0.46
25	5/15/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	46.6	58.7	56.4	0.17	47.4	59.7	56.7	0.22	47.8	60.2	56.9	0.24
25	5/16/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	46.9	59.0	56.4	0.20	47.6	59.9	56.7	0.24	47.9	60.3	56.9	0.25
25	5/17/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.0	20.0	45.7	57.5	56.4	0.09	47.7	60.1	56.7	0.25	47.9	60.3	56.9	0.25
						Average	44.6	56.2	56.4	-0.02	45.3	57.1	56.7	0.03	45.6	57.4	56.9	0.04

System Check

Date	SAR Lab	5G Verification Source	Source Cal. Due Date	Averaging Type	Input Power (dBm)	Prad (mW)	Ohmic & Mismatch Loss (dB)	Meas. 4 cm ² psPDn+ (W/m ²)	Normalized to 20 dBm (W/m)	Target 4 cm ² psPDn+ (W/m ²)	Deviation (dB)	Meas. 4 cm ² ps PDtot+ (W/m ²)	Normalized to 20 dBm (W/m)	Target 4 cm ² psPDtot+ (W/m ²)	Deviation (dB)	Plot
7/16/2025	SAR 22	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	46.6	58.7	55.8	0.22	46.9	59.0	56.4	0.20	
7/20/2025	SAR 22	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	44.4	55.9	55.8	0.01	44.6	56.1	56.4	-0.02	
7/24/2025	SAR 22	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	40.3	50.7	55.8	-0.41	40.7	51.2	56.4	-0.42	7
7/15/2025	SAR 23	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	43.4	54.6	56.8	-0.17	44.6	56.1	57.4	-0.10	
7/19/2025	SAR 23	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	54.5	54.5	56.8	-0.18	55.1	55.1	57.4	-0.18	8
7/23/2025	SAR 23	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.50	93.30	0.30	51.3	57.6	56.8	0.06	52.3	58.7	57.4	0.10	
7/15/2025	SAR 25	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	43.7	55.0	56.2	-0.09	43.9	55.3	57.1	-0.14	
7/19/2025	SAR 25	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	55.0	55.0	56.2	-0.09	55.2	55.2	57.1	-0.15	
7/23/2025	SAR 25	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.50	93.30	0.30	53.8	60.4	56.2	0.31	54.4	61.0	57.1	0.29	9

7. Test Rationale

7.1. Purpose

This application for certification is leveraging the data referencing procedure from KDB 484596 D01; Referencing Test Data (Remarks on Test Reductions via Data Referencing for Closely Related Products) based on reference FCC ID: **BCG-E8947A** (UL SAR report **15496277-S1**) to cover variants FCC ID: **BCG-E8951A**, **BCG-E8952A** and **BCG-E8953A**. The major difference between the reference model and the variant models is the depopulation of the mmWave transmitter in the variant models.

7.2. Data Reuse Approach

Full RF exposure testing was performed on the reference model. The configurations with the highest SAR results for each exposure condition and highest PD result were identified. These configurations were tested on the variant models.

The variation in SAR/PD results was well within the uncertainty budget of the SAR/PD test equipment. The variant SAR/PD results and worst-case reference model SAR/PD results are summarized in § 1.

As it was determined that the removal of the mmWave module had some impact on far-field performance of antennas 5 and 6 for the NII bands, additional spot checks were made in UNII bands 1, 2A, 2C, and 3. The UNII bands 5 – 8 were fully tested for iPD and those results (0.682 – 0.699 mW/ m²) are within -0.01% to + 0.02% of the reference model (0.687 mW/cm²). These checks confirmed that the near-field performance and rf exposure values were not impacted and the reference FCC ID's SAR test results for all UNII bands could be referenced for the variant models.

8. Measured and Reported (Scaled) Results

SAR Spot Check Results 8.1.

A3519

															A3258						A3519						Con Data ha
Antenna(s)	Technology	Band	RF Exposure Condition(s)	Mode(s)	Power Mode(s)	Test Position(s)	Channel	Freq. (MHz)	RB Allocation	RB Offset	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot	d _{TER}	d _{TERmax} (M)	Can Data be Referenced?
ANT 8	LTE	B48	Head	QPSK	Mode A	Right Cheek	56207	3646.7	100	0	N/A	24.0	22.5	0.842	1.189	0.315	0.445	24.0	22.5	0.701	0.990	0.282	0.398	1	0.17	0.25	Yes
ANT 3	LTE	B66	Body & Hotspot	QPSK	Mode B	Back	132322	1745	1	49	N/A	22.8	21.2	0.808	1.168	0.454	0.656	22.8	21.2	0.675	0.976	0.385	0.556	2	0.16	0.25	Yes
ANT 3	LTE	B41 PC3	Hotspot	QPSK	Mode B	Edge Left	40620	2593	100	0	N/A	22.7	21.4	0.882	1.190	0.371	0.500	22.7	21.4	0.741	1.000	0.348	0.469	3	0.16	0.25	Yes
ANT 4	MSS	(L-Band)	Extremity	1-PRB SC-FDMA	Mode B	Front	Low	1610.17	N/A	NA	N/A	25.0	23.5	4.730	6.681	2.040	2.882	25.0	23.5	3.97	5.608	1.700	2.401	4	0.17	0.25	Yes
ANT 6	NB-UNI	UNII-3	Body & Hotspot	GFSK (BDR)	Mode B	Back	Mid	5788	N/A	NA	76.09%	16.0	14.4	0.610	1.159	0.187	0.355	16.0	14.5	0.583	1.082	0.195	0.362	5	0.07	0.25	Yes

A3520

															AJZ38						A3520						Can Data be
Antenna(s)	Technology	Band	RF Exposure Condition(s)	Mode(s)	Power Mode(s)	Test Position(s)	Channel	Freq. (MHz)	RB Allocation	RB Offset	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (Wlkg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot	d _{TER}	d _{TERmax} (M)	Referenced?
ANT 8	LTE	B48	Head	QPSK	Mode A	Right Cheek	56207	3646.7	100	0	N/A	24.0	22.5	0.842	1.189	0.315	0.445	24.0	22.5	0.699	0.987	0.280	0.396	6	0.17	0.25	Yes
ANT 3	LTE	B66	Body & Hotspot	QPSK	Mode B	Back	132322	1745	1	49	N/A	22.8	21.2	0.808	1.168	0.454	0.656	22.8	21.2	0.669	0.967	0.391	0.565	7	0.17	0.25	Yes
ANT 3	LTE	B41 PC3	Hotspot	QPSK	Mode B	Edge Left	40620	2593	100	0	N/A	22.7	21.4	0.882	1.190	0.371	0.500	22.7	21.4	0.772	1.041	0.332	0.448	8	0.12	0.25	Yes
ANT 4	MSS	(L-Band)	Extremity	1-PRB SC-FDMA	Mode B	Front	Low	1610.2	N/A	N/A	N/A	25.0	23.5	4.730	6.681	2.040	2.882	25.0	23.5	4.150	5.862	1.770	2.500	9	0.13	0.25	Yes
ANT 6	NB-UNI	UNII-3	Body & Hotspot	GFSK (BDR)	Mode B	Back	Mid	5788	N/A	N/A	76.09%	16.0	14.4	0.610	1.159	0.187	0.355	16.0	14.4	0.600	1.140	0.187	0.355	10	0.02	0.25	Yes

A3521

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Antenna(s)	Technology		RF Exposure Condition(s)	Mode(s)	Power Mode(s)	Test Position(s)	Channel	Freq. (MHz)	RB Allocation	RB Offset	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot	d _{TER}	d _{TERmax} (M)	Can Data be Referenced?
ANT 8	LTE	B48	Head	QPSK	Mode A	Right Cheek	56207	3646.7	100	0	N/A	24.0	22.5	0.842	1.189	0.315	0.445	24.0	22.5	0.760	1.074	0.299	0.422	11	0.10	0.25	Yes
ANT 3	LTE	B66	Body & Hotspot	QPSK	Mode B	Back	132322	1745	- 1	49	N/A	22.8	21.2	0.808	1.168	0.454	0.656	22.8	21.2	0.753	1.088	0.430	0.622	12	0.07	0.25	Yes
ANT 3	LTE	B41 PC3	Hotspot	QPSK	Mode B	Edge Left	40620	2593	100	0	N/A	22.7	21.4	0.882	1.190	0.371	0.500	22.7	21.4	0.788	1.063	0.336	0.453		0.11	0.25	Yes
ANT 6	NB-UNI	UNII-3	Body & Hotspot	GFSK (BDR)	Mode B	Back	Mid	5788	N/A	N/A	76.09%	16.0	14.4	0.610	1.159	0.187	0.355	16.0	14.4	0.555	1.054	0.173	0.329	13	0.09	0.25	Yes

8.2. Wi-Fi 6 GHz (U-NII 5-8 Bands) Power Density

Per TCB workshop October 2018, 4 cm² averaging area is considered. psPD value (mW/cm²) used the psPD_{tot+} avg value (W/m²) of test result plot.

Wi-Fi 6GHz Test Rationale:

- Following KDB 388624 D02 Pre-Approval Guidance List v18r05, Appendix OVER6G Step 4:
 - The process of steps 3.1 to 3.4 shall be repeated for at least five channels, at the channel center frequency, selected to cover uniformly the largest frequency ranges used in the device, between 5925 MHz and 7125 MHz, and consistent with KDB Publication 248227 test configuration provisions.
- No channels that could transmit below 6GHz were selected for testing to use the PTP-PR Test Methodology.
- The initial test position for iPD was determined using the worst-case 1-g SAR, please refer to §10.39.

iPDn Investigation Results

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RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NI Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	IPD,	Meas. psPD _{kx} (W/m²)	Scaled ps PD _{iot} (W/m²)	Grid Step Size (λ)	Dist. (mm)	PD,	Meas. psPD _{kx} (W/m²)	Scaled ps PD _{sz} (W/m²)	Criterion 1: ≥ -1	Criterion 2: 10% of Limit
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-5	15	6025.0	802.11ax HE160	98.45%	12.5	12.5	1.584	0.0412	2	1.210	3.070	4.864	0.2500	9.952	1.130	1.400	2.218	0.297	Continue to 2. Full Testing
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNI-8	207	6985.0	802.11ax HE160	98.45%	13.5	13.5	1.564	0.0412	2	1.440	2.580	4.035	0.2500	8.584	1.780	1.680	2.627	-0.921	Continue to 2. Full Testing

Note(s):

MU scaling applied due to total uncertainty (1.52 dB, 41.9%) exceeds the 30% budget. Scaling applied for the amount exceeding the 30% budget (11.9%).

Doc. No.: 1.0

PTP-PR PD Results

A3522

RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD _n (W/m²)	Scaled psPD _n (mW/cm ²)	Meas. psPD _{tot} (W/m²)	Scaled psPD _{tot} (mW/cm ²)	Meas. psPD _{mod} (W/m²)		Plot No.
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-5	47	6185.0	802.11ax HE160	98.45%	18.25	17.53	1.581	0.0516	2	2.710	0.514	3.250	0.616	4.200	0.796	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	2.850	0.534	3.230	0.605	4.040	0.757	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-6	111	6505.0	802.11ax HE160	98.45%	15.25	14.60	1.574	0.0542	2	2.940	0.546	3.540	0.657	5.180	0.962	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-7	143	6665.0	802.11ax HE160	98.45%	15.25	14.55	1.571	0.0556	2	3.120	0.585	3.500	0.656	3.930	0.737	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	3.320	0.615	3.770	0.699	4.890	0.906	14
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Front	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	1.040	0.193	1.250	0.232	1.820	0.337	П
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Edge Top	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	0.164	0.030	0.165	0.031	0.178	0.033	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Edge Right	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	0.093	0.017	0.095	0.018	0.109	0.020	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Edge Bottom	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	1.040	0.193	1.140	0.211	1.320	0.245	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Edge Left	UNII-8	207	6985.0	802.11ax HF160	98.45%	15.50	14.83	1.564	0.0582	2	0.910	0.169	1.040	0.193	1.190	0.221	
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-5	47	6185.0	802.11ax HE160	98.45%	9.75	8.45	1.581	0.0516	2	2.780	0.602	3.220	0.697	4.980	1.079	
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	2.180	0.493	2.630	0.595	5.110	1.157	
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-6	111	6505.0	802.11ax HE160	98.45%	10.50	9.00	1.574	0.0542	2	2.030	0.458	2.830	0.639	4.980	1.125	П
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	2.320	0.509	3.180	0.698	5.710	1.253	
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Back	UNII-8	207	6985.0	802.11ax HE160	98.45%	9.75	8.25	1.564	0.0582	2	2.210	0.496	2.600	0.583	4.370	0.981	
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Front	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	0.289	0.063	0.294	0.065	0.299	0.066	П
Body & Hotspot	ANT 6	Wi-Fi Pow er Mode 1	Edge Top	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	0.505	0.111	0.522	0.115	0.541	0.119	П
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Edge Right	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	0.474	0.104	0.476	0.104	0.479	0.105	П
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Edge Bottom	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	0.310	0.068	0.311	0.068	0.312	0.068	П
Body & Hotspot	ANT 6	Wi-Fi Power Mode 1	Edge Left	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	0.502	0.110	0.516	0.113	0.554	0.122	

A3523

RF Exposure Conditions	Transmitter	Pow er Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD _n (W/m²)	Scaled psPD _n (mW/cm²)	Meas. psPD _{lot} (W/m²)	Scaled psPD _{tot} (mW/cm ²)	Meas. psPD _{mod} (W/m²)	Scaled psPD _{mod} (mW/cm²)	Plot No.
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-5	47	6185.0	802.11ax HE160	98.45%	18.25	17.53	1.581	0.0516	2	2.820	0.534	3.260	0.618	4.060	0.769	
Body & Hotspot	ANT 5	Wi-Fi Power Mode 1	Back	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	3.100	0.581	3.640	0.682	4.450	0.834	15
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1	Back	UNII-6	111	6505.0	802.11ax HE160	98.45%	15.25	14.60	1.574	0.0542	2	3.050	0.566	3.410	0.633	3.940	0.732	
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1	Back	UNII-7	143	6665.0	802.11ax HE160	98.45%	15.25	14.55	1.571	0.0556	2	3.130	0.587	3.590	0.673	5.050	0.947	
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1	Back	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	2.830	0.525	3.590	0.665	4.200	0.779	
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1	Front	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.984	0.184	1.270	0.238	1.900	0.356	
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1	Edge Top	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.108	0.020	0.111	0.021	0.118	0.022	
Body & Hotspot	ANT 5	Wi-Fi Pow er Mode 1 Wi-Fi Pow er	Edge Right	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.464	0.087	0.471	0.088	0.491	0.092	
Body & Hotspot	ANT 5	Mode 1 Wi-Fi Pow er	Edge Bottom	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.868	0.163	0.999	0.187	1.080	0.202	
Body & Hotspot	ANT 5	Mode 1 Wi-Fi Pow er	Edge Left	UNII-5	79	6345.0	802.11ax HE160 802.11ax	98.45%	17.25	16.57	1.577	0.0529	2	1.800	0.337	2.160	0.405	2.430	0.455	丄
Body & Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Back	UNII-5	47	6185.0	HE160 802.11ax	98.45%	9.75	8.45	1.581	0.0516	2	2.480	0.537	2.850	0.617	4.550	0.986	L
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Back	UNII-5	79	6345.0	HE160 802.11ax	98.45%	9.50	8.00	1.577	0.0529	2	1.620	0.367	2.490	0.564	3.540	0.801	L
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Back	UNII-6	111	6505.0	HE160 802.11ax	98.45%	10.50	9.00	1.574	0.0542	2	1.770	0.400	2.860	0.646	4.890	1.104	┸
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Back	UNIF7	119	6545.0	HE80 802.11ax	97.82%	10.50	9.15	1.573	0.0546	2	2.400	0.527	3.050	0.669	4.710	1.034	┺
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Back	UNII-8	207	6985.0	HE160 802.11ax	98.45%	9.75	8.25	1.564	0.0582	2	2.420	0.543	2.990	0.671	4.060	0.911	₽
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Front	UNII-8	207	6985.0	HE160 802.11ax	98.45%	9.75	8.25	1.564	0.0582	2	0.189	0.042	0.194	0.044	0.210	0.047	╙
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Edge Top	UNII-8	207	6985.0	HE160 802.11ax	98.45%	9.75	8.25	1.564	0.0582	2	0.066	0.015	0.067	0.015	0.070	0.016	₽
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Edge Right	UNII-8	207	6985.0	HE160 802.11ax	98.45%	9.75	8.25	1.564	0.0582	2	0.091	0.020	0.092	0.021	0.104	0.023	L!
Hotspot Body &	ANT 6	Mode 1 Wi-Fi Pow er	Edge Bottom	UNII-8	207	6985.0	HE160 802.11ax	98.45%	9.75	8.25	1.564	0.0582	2	0.145	0.033	0.146	0.033	0.154	0.035	ـــــ
Hotspot	ANT 6	Mode 1	Edge Left	UNII-8	207	6985.0	802.118X HE160	98.45%	9.75	8.25	1.564	0.0582	2	0.220	0.049	0.245	0.055	0.277	0.062	L

A3524

RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD _n (W/m²)	Scaled psPD _n (mW/cm ²)	Meas. psPD _{tot} (W/m²)	Scaled psPD _{tot} (mW/cm ²)	Meas. psPD _{mod} (W/m²)	Scaled psPD _{mod} (mW/cm ²)	Plot No.
Body & Hotspot	ANIS	Wi-Fi Power Mode 1	Back	UNII-5	47	6185.0	802.11ax HE160	98.45%	18.25	17.53	1.581	0.0516	2	3.160	0.599	3.530	0.669	4.390	0.832	П
Body & Hotspot	ANIS	Wi-Fi Power Mode 1	Back	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	2.970	0.557	3.630	0.680	4.550	0.853	П
Body & Hotspot	ANI 5	Wi-Fi Power Mode 1	Back	UNII-6	111	6505.0	802.11ax HE160	98.45%	15.25	14.60	1.574	0.0542	2	3.110	0.578	3.270	0.607	4.230	0.786	П
Body & Hotspot		Wi-Fi Power Mode 1 Wi-Fi Power	Back	UNII-7	143	6665.0	802.11ax HE160	98.45%	15.25	14.55	1.571	0.0556	2	3.100	0.581	3.540	0.664	5.230	0.980	
Body & Hotspot	ANIS	Mode 1	Back	UNII-8	207	6985.0	802.11ax HE160	98.45%	15.50	14.83	1.564	0.0582	2	2.930	0.543	3.620	0.671	4.360	0.808	
Body & Hotspot	ANI 5	Wi-Fi Pow er Mode 1	Front	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	1.650	0.309	2.030	0.380	2.480	0.465	
Body & Hotspot	ANIS	Wi-Fi Power Mode 1	Edge Top	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.102	0.019	0.117	0.022	0.145	0.027	
Bodý & Hotspot	ANI 5	Wi-Fi Power Mode 1	Edge Right	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.667	0.125	0.709	0.133	0.814	0.153	
Body & Hotspot	ANIS	Wi-Fi Pow er Mode 1	Edge Bottom	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	0.607	0.114	0.682	0.128	0.851	0.159	
Body & Hotspot	ANIS	Wi-Fi Power Mode 1	Edge Left	UNII-5	79	6345.0	802.11ax HE160	98.45%	17.25	16.57	1.577	0.0529	2	2.190	0.410	2.740	0.513	3.120	0.585	
Bodý & Hotspot	ANI 6	Wi-Fi Pow er Mode 1	Back	UNII-5	47	6185.0	802.11ax HE160	98.45%	9.75	8.45	1.581	0.0516	2	2.390	0.518	3.180	0.689	4.630	1.003	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Back	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	2.020	0.457	3.060	0.693	5.550	1.256	16
Body & Hotspot	ANI 6	Wi-Fi Pow er Mode 1	Back	UNII-6	111	6505.0	802.11ax HE160	98.45%	10.50	9.00	1.574	0.0542	2	2.170	0.490	2.720	0.614	5.210	1.177	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Back	UNII-7	119	6545.0	802.11ax HE80	97.82%	10.50	9.15	1.573	0.0546	2	1.920	0.421	2.540	0.557	5.000	1.097	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Back	UNII-8	207	6985.0	802.11ax HE160	98.45%	9.75	8.25	1.564	0.0582	2	2.090	0.469	2.670	0.599	3.760	0.844	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Front	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	0.408	0.092	0.418	0.095	0.439	0.099	
Body & Hotspot	ANT 6	Wi-Fi Pow er Mode 1	Edge Top	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	0.460	0.104	0.471	0.107	0.514	0.116	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Edge Right	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	0.370	0.084	0.379	0.086	0.386	0.087	
Body & Hotspot	ANI 6	Wi-Fi Power Mode 1	Edge Bottom	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	0.216	0.049	0.219	0.050	0.225	0.051	
Body & Hotspot	ANT 6	Wi-Fi Pow er Mode 1	Edge Left	UNII-5	79	6345.0	802.11ax HE160	98.45%	9.50	8.00	1.577	0.0529	2	0.330	0.075	0.334	0.076	0.347	0.079	

Note(s):

MU scaling applied due to total uncertainty (1.52 dB, 41.9%) exceeds the 30% budget. Scaling applied for the amount exceeding the 30% budget

Testing was performed at the most conservative Grid Step Size of 0.041 lambda. Conversion Factor: W/m² to mW/cm² = 0.1

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Appendixes

Refer to separated files for the following appendixes.

Appendix A: SAR Setup Photos

Appendix B: SAR System Check Plots

Appendix C: SAR Highest Test Plots

Appendix D: SAR Tissue Ingredients

Appendix E: SAR Probe Certificates

Appendix F: SAR Dipole Certificates

Appendix G: 5G Verification source Certificate

END OF REPORT