

### **SAR EVALUATION REPORT**

### FCC 47 CFR § 2.1093 **IEEE Std 1528-2013**

For **Smart Phone** 

FCC ID: BCG-E8954A, BCG-E8955A, BCG-E8956A Model Name: A3516, A3517, A3518

> Report Number: 15496283-S1V1 Issue Date: 8/5/2025

Prepared for APPLE INC. 1 APPLE PARK WAY **CUPERTINO, CA 95014-2084** 

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## **Revision History**

Rev.	Date	Revisions	Revised By
V1	8/5/2025	Initial Issue	

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## 1. Attestation of Test Results

Applicant Name	APPLE INC						
FCC ID	BCG-E8954A, BCG-E8955	BCG-E8954A, BCG-E8955A, BCG-E8956A					
Model Name	A3516, A3517, A3518						
Applicable Standards	FCC 47 CFR § 2.1093 IEEE Std 1528-2013	•					
		SAR Limi	ts (W/Kg)				
Exposure Category	· ·	ial-average tissue)	,	, wrists, ankles, etc.) f tissue)			
General population / Uncontrolled exposure	1	.6		4			
RF Exposure Conditions		Exposure Condition - High	hest Reported SAR (W/kg)				
RF Exposure Conditions	Head	Body	Hotspot	Extremity			
Worst Case from BCG-E8948A (A3260)	1.190	1.189	1.189	2.719			
BCG-E8954A (A3516)	0.931	1.184	1.184	2.354			
BCG-E8955A (A3517)	1.103	1.082	1.082	2.744			
BCG-E8956A (A3518)	1.006	1.090	1.090	N/A			
		Radiofrequency (RF) Radiat	ion Exposure (above 6GHz)				
Exposure Category /	⊠ Unco			☐ Occupational/controlled			
Applicable limit	(mW/cm <sup>2</sup> over 4 cr	(mW/cm² over 4 cm²) 30 min average		(mW/cm² over 4 cm²) 6 min average			
	1	.0	5				
Worst Case from		Highest Reported PD Re	sult (mW/cm <sup>2</sup> over 4cm <sup>2</sup> )				
BCG-E8948A (A3260)		0.6	883				
BCG-E8954A (A3516)		0.6	<del>373</del>				
BCG-E8955A (A3517)		0.685					
BCG-E8956A (A3518)		0.674					
Date Tested	5/30/2025 to 7/30/2025	5/30/2025 to 7/30/2025					
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-E8948A** (UL SAR report **15496282-S1**) to cover variants FCC ID: **BCG-E8954A**, **BCG-E8955A** and **BCG-E8956A**. 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.

Approved & Released By:	Prepared By:
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UL Verification Services Inc.	UL Verification Services Inc.

## 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
- o 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
- o 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)
- o TCB Workshop October 2015; RF Exposure Procedures (KDB 941225 D05A)
- TCB Workshop April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- o TCB Workshop October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- TCB Workshop October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- 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

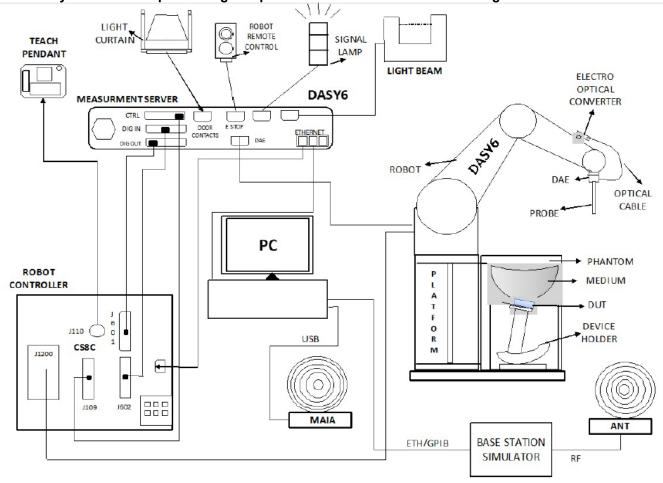
47173 Benicia Street	47266 Benicia Street
SAR Labs A to I	SAR Labs 1 to 26

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

## 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 DASY6/8<sup>1</sup> 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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<sup>&</sup>lt;sup>1</sup> 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	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$	When the x or y dimension of the test device, in measurement plane orientation, is smaller than the measurement resolution must be $\leq$ the correst x or y dimension of the test device with at least 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: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			$\leq$ 2 GHz: $\leq$ 8 mm 2 – 3 GHz: $\leq$ 5 mm <sup>*</sup>	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform grid: $\Delta z_{Z_{000m}}(n)$		≤ 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 <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
		between subsequent	≤ 1.5·Δz	Z <sub>Coom</sub> (n-1)
Minimum zoom scan volume	x, y, z		$3 - 4 \text{ GHz: } \ge 28 \text{ mm}$ $\ge 30 \text{ mm}$ $4 - 5 \text{ GHz: } \ge 25 \text{ mm}$ $5 - 6 \text{ GHz: } \ge 22 \text{ mm}$	

Note:  $\delta$  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.

<sup>\*</sup> 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 Power 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):

<sup>\*</sup>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 I)	SPEAG	EX3DV4	7897	10/30/2025
E-Field Probe (SAR Lab 24)	SPEAG	EX3DV4	7335	1/13/2026
E-Field Probe (SAR Lab 22)	SPEAG	EUmmWV4	9619	3/5/2026
Data Acquisition Electronics (SAR Lab I)	SPEAG	DAE4	1798	5/9/2026
Data Acquisition Electronics (SAR Lab 24)	SPEAG	DA E4ip	1892	3/4/2026
Data Acquisition Electronics (SAR Lab 22)	SPEAG	DAE4	1540	1/8/2026
System Validation Dipole	SPEAG	D1640V2	324	6/13/2026
System Validation Dipole	SPEAG	D1750V2	1050	4/19/2026
System Validation Dipole	SPEAG	D3500V2	1060	2/7/2026
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**

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

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# 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**

Uncertainty terms dependent on the measurement system		a	b	С	d f(d,k)	е	f = b×e/d	g
CAL         Calibration Repeatability         0.49         Normal         1         1         0.49         ∞           COR         Probe correction         0         Rectangular         1.732         1         0.00         ∞           FRS         Frequency response (BW 1 GHz)         0.20         Rectangular         1.732         1         0.00         ∞           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         0.02         ∞           PSC         Probe scattering         0         Rectangular         1.732         1         0.00         ∞           PPC         Probe positioning oset         0.30         Rectangular         1.732         1         0.00         ∞           SMO         Sensor mechanical oset         0         Rectangular         1.732         1         0.00         ∞           PSR         Probe spatial resolution         0         Rectangular         1.732         1		Error Description	_		Div.	ci		vi
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         0.10         ∞           PPO         Probe positioning oset         0.30         Rectangular         1.732         1         0.00         ∞           SMO         Sensor mechanical oset         0         Rectangular         1.732         1         0.00         ∞           SMO         Sensor mechanical oset         0         Rectangular         1.732         1         0.00         ∞           SMP Probe spatial resolution         0         Rectangular         1.732         1         0.00 <td>Uncertain</td> <td>ty terms dependent on the measuremer</td> <td>nt system</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Uncertain	ty terms dependent on the measuremer	nt system					
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 oset         0.30         Rectangular         1.732         1         0.07         ∞           SMO         Sensor mechanical oset         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         <	CAL	Calibration Repeatability	0.49	Normal	1	1	0.49	∞
SCC   Sensor cross coupling   0   Rectangular   1.732   1   0.00   ∞	COR	Probe correction	0	Rectangular	1.732	1	0.00	$\infty$
ISO   Isotropy   0.50   Rectangular   1.732   1   0.29   ∞	FRS	Frequency response (BW 1 GHz)	0.20	Rectangular	1.732	1	0.12	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular	SCC	Sensor cross coupling	0	Rectangular		1	0.00	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           DAQ         Data acquisition         0.03         Normal	ISO		0.50	Rectangular		1	0.29	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           TR         Measurement area truncation         0 <td< td=""><td></td><td></td><td>0.20</td><td>Rectangular</td><td>1.732</td><td>1</td><td>0.12</td><td><math>\infty</math></td></td<>			0.20	Rectangular	1.732	1	0.12	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           DAQ         Data acquisition         0.03         Normal         1         1         0.00         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732 </td <td>PSC</td> <td></td> <td></td> <td>Rectangular</td> <td></td> <td>1</td> <td>0.00</td> <td><math>\infty</math></td>	PSC			Rectangular		1	0.00	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           DAQ         Data acquisition         0.03         Normal         1         1         0.00         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.35         ∞           TRA         Forward transformation         0         Rectangular         1.732	PPO	<u> </u>	0.30	Rectangular		1	0.17	$\infty$
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         0.00         ∞           TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           DAQ         Data acquisition         0.03         Normal         1         1         0.03         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0         Rectangular         1.732 <t< td=""><td></td><td></td><td>0.04</td><td></td><td>1.732</td><td>1</td><td>0.02</td><td><math>\infty</math></td></t<>			0.04		1.732	1	0.02	$\infty$
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         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0         Rectangular         1.732         1         0.00         ∞           SCA         Power density scaling         -         Rectangular         1.732         1 <td>SMO</td> <td>Sensor mechanical o set</td> <td>0</td> <td>Rectangular</td> <td>1.732</td> <td>1</td> <td>0.00</td> <td><math>\infty</math></td>	SMO	Sensor mechanical o set	0	Rectangular	1.732	1	0.00	$\infty$
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         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.35         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           SCA         Power density scaling         -         Rectangular         1.732         1         0.00         ∞           SAV         Spatial averaging         0.10         Rectangular         1.732         1 <td></td> <td>·</td> <td>0</td> <td></td> <td></td> <td></td> <td>0.00</td> <td><math>\infty</math></td>		·	0				0.00	$\infty$
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         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           SCA         Power density scaling         -         Rectangular         1.732         1         0.00         ∞           SAV         Spatial averaging         0.10         Rectangular         1.732         1         0.06         ∞           SDL         System detection limit         0.04         Rectangular         1.732         1         0.02         ∞           Uncertainty terms dependent on the DUT and environmental factors         Transpart factors         1		·	0	Rectangular				∞
TR         Measurement area truncation         0         Rectangular         1.732         1         0.00         ∞           DAQ         Data acquisition         0.03         Normal         1         1         0.03         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.00         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           SCA         Power density scaling         -         Rectangular         1.732         1         0.00         ∞           SAV         Spatial averaging         0.10         Rectangular         1.732         1         0.06         ∞           SDL         System detection limit         0.04         Rectangular         1.732         1         0.06         ∞           BC         Probe coupling with DUT         0         Rectangular         1.732         1         0.02         ∞           MOD         Modulation response         0.40         Rectangular         1.732         1	APD	Amplitude and phase drift	0	Rectangular	1.732	1	0.00	∞
DAQ         Data acquisition         0.03         Normal         1         1         0.03         ∞           SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.35         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           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         ∞           Uncertainty terms dependent on the DUT and environmental factors           PC         Probe coupling with DUT         0         Rectangular         1.732         1         0.02         ∞           MOD         Modulation response         0.40         Rectangular         1.732         1         0.23         ∞           IT         Integration time </td <td>APN</td> <td>Amplitude and phase noise</td> <td>0.04</td> <td>Rectangular</td> <td>1.732</td> <td>1</td> <td>0.02</td> <td><math>\infty</math></td>	APN	Amplitude and phase noise	0.04	Rectangular	1.732	1	0.02	$\infty$
SMP         Sampling         0         Rectangular         1.732         1         0.00         ∞           REC         Field reconstruction         0.60         Rectangular         1.732         1         0.35         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           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         ∞           Uncertainty terms dependent on the DUT and environmental factors           PC         Probe coupling with DUT         0         Rectangular         1.732         1         0.02         ∞           MOD         Modulation response         0.40         Rectangular         1.732         1         0.23         ∞           IT         Integration time         0         Rectangular         1.732         1         0         ∞           RT         Response time <td>TR</td> <td>Measurement area truncation</td> <td>0</td> <td>Rectangular</td> <td>1.732</td> <td>1</td> <td>0.00</td> <td><math>\infty</math></td>	TR	Measurement area truncation	0	Rectangular	1.732	1	0.00	$\infty$
REC         Field reconstruction         0.60         Rectangular         1.732         1         0.35         ∞           TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           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         ∞           Uncertainty terms dependent on the DUT and environmental factors           PC         Probe coupling with DUT         0         Rectangular         1.732         1         0.02         ∞           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         0.06         ∞           DAQ         DUT alignme	DAQ	Data acquisition	0.03	Normal	1	1	0.03	$\infty$
TRA         Forward transformation         0         Rectangular         1.732         1         0.00         ∞           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         ∞           Uncertainty terms dependent on the DUT and environmental factors           PC         Probe coupling with DUT         0         Rectangular         1.732         1         0.02         ∞           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         ∞           DAQ         DUT alignment         0         Rectangular         1.732         1         0         ∞           AC         RF ambient conditions	SMP	Sampling	0	Rectangular	1.732	1	0.00	$\infty$
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         ∞           Uncertainty terms dependent on the DUT and environmental factors           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         0.02         ∞           AC         RF ambient conditions <td>REC</td> <td>Field reconstruction</td> <td>0.60</td> <td>Rectangular</td> <td>1.732</td> <td>1</td> <td>0.35</td> <td><math>\infty</math></td>	REC	Field reconstruction	0.60	Rectangular	1.732	1	0.35	$\infty$
SAV         Spatial averaging         0.10         Rectangular         1.732         1         0.06         ∞           SDL         System detection limit         0.04         Rectangular         1.732         1         0.02         ∞           Uncertainty terms dependent on the DUT and environmental factors           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         0.06         ∞           AC         RF ambient conditions         0.04         Rectangular         1.732         1         0.02         ∞           AR         Ambient reflections<	TRA	Forward transformation	0	Rectangular	1.732	1	0.00	$\infty$
SDL         System detection limit         0.04         Rectangular         1.732         1         0.02         ∞           Uncertainty terms dependent on the DUT and environmental factors         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         0.06         ∞           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	SCA	Power density scaling	-	Rectangular	1.732	1	-	$\infty$
SDL         System detection limit         0.04         Rectangular         1.732         1         0.02         ∞           Uncertainty terms dependent on the DUT and environmental factors         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	SAV	Spatial averaging	0.10	Rectangular	1.732	1	0.06	$\infty$
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         0.12         ∞           DRI         Drift of the DUT         0.21         Rectangular         1.732         1         0.	SDL	System detection limit	0.04	Rectangular	1.732	1	0.02	$\infty$
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         0.12         ∞           DRI         Drift of the DUT         0.21         Rectangular         1.732         1         0.	Uncertain		rironmental fa	•			<u> </u>	
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         ∞					1.732	1	0	$\infty$
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         ∞	MOD		0.40		1.732	1	0.23	$\infty$
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         ∞	IT	-	0	_	1.732	1	0	$\infty$
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         ∞			0			1	0	00
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         ∞		<u>'</u>	0.10				-	
ACRF ambient conditions $0.04$ Rectangular $1.732$ $1$ $0.02$ $\infty$ ARAmbient reflections $0.04$ Rectangular $1.732$ $1$ $0.02$ $\infty$ MSIImmunity / secondary reception $0$ Rectangular $1.732$ $1$ $0$ $\infty$ DRIDrift of the DUT $0.21$ Rectangular $1.732$ $1$ $0.12$ $\infty$ Combined Standard Uncertainty Uc(f) =RSS $0.766$ $\infty$								
AR Ambient reflections 0.04 Rectangular 1.732 1 0.02 $\infty$ MSI Immunity / secondary reception 0 Rectangular 1.732 1 0 $\infty$ DRI Drift of the DUT 0.21 Rectangular 1.732 1 0.12 $\infty$ Combined Standard Uncertainty Uc(f) = RSS 0.76 $\infty$	_							
MSIImmunity / secondary reception0Rectangular1.73210 $\infty$ DRIDrift of the DUT0.21Rectangular1.73210.12 $\infty$ Combined Standard Uncertainty Uc(f) =RSS0.76 $\infty$								
DRI Drift of the DUT 0.21 Rectangular 1.732 1 0.12 $\infty$ Combined Standard Uncertainty Uc(f) = RSS 0.76 $\infty$								
Combined Standard Uncertainty Uc(f) = RSS 0.76 ∞								
			V.Z I		1.702	'		
			% Confidence				1.52	<b>5</b> 0

## 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  $18^{\circ}$ C to  $25^{\circ}$ 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 ( $\epsilon$ r) and conductivity ( $\sigma$ ) 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  $\epsilon$ r and  $\sigma$  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

Torget Frequency (MHz)	Н	lead	Bod	у
Target Frequency (MHz)	ε <sub>r</sub>	σ (S/m)	ε <sub>r</sub>	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				Conductivity (σ)						System Cl								
SAR		Tissue	Band	Freq.	Relati	ve Permittivi			Conductivity	(o)		Dipole Type	Dipole	Input		asured resu				asured resu			Plot
Lab	Date	Туре	(MHz)	(MHz)	M easured	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.
				3500	35.43	37.93	-6.59%	2.77	2.91	-4.73%													
SARI	7/24/2025	Head	3500	3400	35.61	38.04	-6.40%	2.69	2.81	-4.28%	7/24/2025	D3500V2 SN: 1060	2/7/2026	17.0	3.330	66.442	65.700	1.13%	1.280	25.539	24.900	2.57%	
				3600	35.26	37.82	-6.76%	2.87	3.01	-4.81%	1												
				3500	35.95	37.93	-5.22%	2.86	2.91	-1.70%													
SARI	7/28/2025	Head	3500	3400	36.18	38.04	-4.90%	2.74	2.81	-2.54%	7/28/2025	D3500V2 SN: 1060	2/7/2026	20.0	6.930	69.300	65.700	5.48%	2.670	26.700	24.900	7.23%	1
				3600	35.70	37.82	-5.59%	2.93	3.01	-2.78%	1												ıl
				1640	40.35	40.25	0.24%	1.30	1.31	-0.68%													
SAR 24	7/26/2025	Head	1640	1610	40.42	40.30	0.30%	1.28	1.29	-0.47%	7/26/2025	D1640V2 SN: 324	6/13/2026	17.0	1.680	33.520	33.900	-1.12%	0.919	18.336	18.300	0.20%	2
				1665	40.29	40.22	0.19%	1.31	1.32	-0.83%	1												ıl
				1750	40.16	40.08	0.19%	1.35	1.37	-1.68%													
SAR 24	7/26/2025	Head	1750	1695	40.23	40.17	0.15%	1.32	1.34	-1.04%	7/26/2025	D1750V2 SN: 1050	4/19/2026	17.0	1.740	34.718	36.100	-3.83%	0.933	18.622	18.900	-1.47%	3
				1780	40.17	40.04	0.33%	1.36	1.39	-1.87%	1												. 1

## 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 <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDtot+ (W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDm od+ (W/m <sup>2</sup> )	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 <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDtot+ (W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDm od+ (W/m <sup>2</sup> )	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 <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> psPDn+(W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDtot+ (W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m²)	Target 4 cm <sup>2</sup> ps PDm od+ (W/m <sup>2</sup> )	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**

SAR Lab	Date	5G Verification Source	Source Cal. Due Date	Averaging Type	Input Power (dBm)	Prad (mW)	Ohmic & Mismatch Loss (dB)	Meas. 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m)	Target 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> )	Deviation (dB)	Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> )	Normalized to 20 dBm (W/m)	Target 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> )	Deviation (dB)	Plot
SAR Lab 22	5/28/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	57.9	57.9	55.8	0.16	58.1	58.1	56.4	0.13	
SAR Lab 22	6/1/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	53.9	53.9	55.8	-0.15	54.1	54.1	56.4	-0.18	
SAR Lab 22	6/5/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	56.2	56.2	55.8	0.03	56.4	56.4	56.4	0.00	
SAR Lab 22	6/10/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	20.00	93.30	0.30	56.2	56.2	55.8	0.03	56.4	56.4	56.4	0.00	
SAR Lab 22	6/18/2025	5G Verification Source 10 GHz SN: 1015	9/6/2025	Square	19.00	93.30	0.30	42.3	53.3	55.8	-0.20	42.8	53.9	56.4	-0.20	4

## 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-E8948A (UL SAR report 15496282-S1) to cover variants FCC ID: BCG-E8954A, BCG-E8955A and BCG-E8956A. 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.

## 8. Measured and Reported (Scaled) Results

## 8.1. SAR Spot Check Results

#### A3516

															A3260						A3516					. an	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 (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. (Wikg)	10-g Scaled (W/kg)	Plot No.	UER	USiknax(M)	Referenced?
ANT 4	FR1	n77 Block A	Head	DFT-s-OFDM π/2 BPSK	Mode A	Left Cheek	633334	3500.01	135	69		17.8	16.5	0.882	1.190	0.306	0.413	17.8	16.5	0.690	0.931	0.254	0.343	1	0.22	0.25	Yes
ANT 3	W-CDMA	4	Body & Hotspot	Rel. 99	Mode B	Back (Offset)	1513	1752.6				23.9	21.9	0.750	1.189	0.375	0.594	23.9	21.9	0.747	1.184	0.386	0.612	2	0.00	0.25	Yes
ANT 2	MSS	(L-Band)	Extremity	1-PRB SC-FDMA	Mode B	Edge Left	High	1626.03				26.0	25.0	5.430	6.836	2.160	2.719	26.0	25.0	4.220	5.313	1.870	2.354	3	0.13	0.25	Yes

#### A3517

															A3260						A3517				_		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. (Wikg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (Wikg)	1-g Scaled (W/kg)	10-g Meas. (Wikg)	10-g Scaled (W/kg)	Plot No.	a <sub>se</sub>	d <sub>Eikmax</sub> (M)	Referenced?
ANT 4	FR1	n77 Block A	Head	DFT-s-OFDM π/2 BPSK	Mode A	Left Cheek	633334	3500.01	135	69		17.8	16.5	0.882	1.190	0.306	0.413	17.8	16.5	0.818	1.103	0.290	0.391	4	0.07	0.25	Yes
ANT 3	W-CDMA	4	Body & Hotspot	Rel. 99	Mode B	Back (Offset)	1513	1752.6				23.9	21.9	0.750	1.189	0.375	0.594	23.9	21.9	0.683	1.082	0.358	0.567	5	0.09	0.25	Yes
ANT 2	MSS	(L-Band)	Extremity	1-PRB SC-FDMA	Mode B	Edge Left	High	1626.03				26.0	25.0	5.430	6.836	2.160	2.719	26.0	25.0	5.120	6.446	2.180	2.744	6	0.01	0.25	Yes

#### A3518

															A3260						A3518				_		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 (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	TuP Limit (dBm)	Meas. (dBm)	1-g Meas. (Wkg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.	G <sub>ER</sub>	d <sub>Eiknax</sub> (M)	Referenced?
ANT 4	FR1	n77 Block A	Head	DFT-s-OFDM π/2 BPSK	Mode A	Left Cheek	633334	3500.01	135	69		17.8	16.5	0.882	1.190	0.306	0.413	17.8	16.5	0.746	1.006	0.276	0.372	7	0.15	0.25	Yes
ANT 3	W-CDMA	4	Body & Hotspot	Rel. 99	Mode B	Back (Offset)	1513	1752.6				23.9	21.9	0.750	1.189	0.375	0.594	23.9	21.9	0.688	1.090	0.356	0.564	8	0.08	0.25	Yes

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

Per TCB workshop October 2018, 4 cm<sup>2</sup> averaging area is considered.

psPD value (mW/cm<sup>2</sup>) used the psPD<sub>tot+</sub> avg value (W/m<sup>2</sup>) 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 <u>channel center</u> frequency, selected to <u>cover uniformly the largest frequency ranges used in the device</u>, 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

Body ANT6 Mode A Back UNB-5 15 6025 802.1182 94.84% 12.8 11.3 1.584 0.0502 2 8.35 2.62 5.756 0.2500 9.952 1.470 0.709 1.558 7.544 Continue to 2.Full Testing Body ANT6 Mode A Back UNB-8 207 6985 802.1182 94.84% 12.5 11.3 1.564 0.0592 2 5.04 3.52 7.257 0.2500 8.584 4.870 1.730 3.567 0.149 Continue to 2.Full Testing	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 <sub>kx</sub> (W/m²)	Scaled psPD <sub>sz</sub> (W/m²)	Grid Step Size (λ)	Dist. (mm)	IPD,	Meas. psPD <sub>kx</sub> (W/m²)	Scaled ps PD <sub>iot</sub> (W/m²)	Criterion 1: ≥ -1	Criterion 2: 10% of Limit
	Body	ANT 6	Mode A	Back	UNII-5	15	6025.0	HE160	94.84%	12.8	11.3	1.584	0.0502	2	8.35	2.62	5.796	0.2500	9.952	1.470	0.709	1.568	7.544	Continue to 2. Full Testing
	Body	ANT 6	Mode A	Back	UNII-8	207	6985.0		94.84%	12.5	11.3	1.564	0.0582	2	5.04	3.52	7.257	0.2500	8.584	4.870	1.730	3.567	0.149	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%).

#### PTP-PR PD Results

#### 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%).

Testing was performed at the most conservative Grid Step Size of 0.041 lambda.

Conversion Factor: W/m<sup>2</sup> to mW/cm<sup>2</sup> = 0.1

## A3522

RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>n</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm <sup>2</sup> )	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm <sup>2</sup> )	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>mod</sub> (mW/cm <sup>2</sup> )	Plot No.
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	2.55	0.595	2.79	0.651	3.48	0.812	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	2.50	0.512	2.81	0.575	3.360	0.688	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	12.50	11.50	1.574	0.0412	2	2.54	0.531	2.91	0.608	3.370	0.704	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.25	12.40	1.571	0.0412	2	2.79	0.562	3.34	0.673	4.040	0.814	9
Body & Hotspot	ANT 5	Power State 1	Back	UNII-8	207	6985.0	802.11ax HE160	94.84%	0.10	12.50	11.30	1.564	0.0412	2	2.41	0.524	2.88	0.626	3.170	0.689	
Body & Hotspot	ANT 5	Power State 1	Front	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.30	12.40	1.571	0.0412	2	0.162	0.033	0.212	0.043	0.340	0.069	
Body & Hotspot	ANT 5	Power State 1	Edge Top	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.30	12.40	1.571	0.0412	2	0.562	0.115	0.575	0.117	0.605	0.123	
Body & Hotspot	ANT 5	Power State 1	Edge Right	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.30	12.40	1.571	0.0412	2	1.970	0.401	2.340	0.477	3.260	0.664	
Body & Hotspot	ANT 5	Power State 1	Edge Left	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.30	12.40	1.571	0.0412	2	0.146	0.030	0.157	0.032	0.176	0.036	
RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>n</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm²)	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm²)	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>mod</sub> (mW/cm²)	Plot No.
	Transmitter ANT 6		Test Position  Back		Ch No.	Freq. (MHz) 6025.0	Mode 802.11ax HE160														
Conditions Body &		Mode Power		Band		11111	802.11ax	(%)	Factor	(dBm)	(dBm)	Scaling Factor	(A)	(mm)	(W/m²)	(mW/cm²)	(W/m²)	(mW/cm²)	(W/m²)	(mW/cm²)	
Body & Hotspot Body &	ANT 6	Mode Power State 1 Power	Back	Band UNII-5	15	6025.0	802.11ax HE160 802.11ax	94.84%	Factor 0.10	(dBm) 12.00	(dBm) 11.20	Scaling Factor 1.584	(A) 0.0412	(mm) 2	(W/m²)	(mW/cm²) 0.394	(W/m²)	(mW/cm²) 0.550	(W/m²)	(mW/cm²) 0.713	
Body & Hotspot Body & Hotspot Body &	ANT 6	Mode Power State 1 Power State 1 Power	Back Back	UNII-5 UNII-5	15 47	6025.0 6185.0	802.11ax HE160 802.11ax HE160 802.11ax	94.84% 94.84%	0.10 0.10	(dBm) 12.00 12.25	(dBm) 11.20 11.80	1.584 1.581	(A) 0.0412 0.0412	(mm) 2 2	(W/m²) 1.96 2.25	(mW/cm²) 0.394 0.416	(W/m²) 2.74 3.09	(mW/cm²) 0.550 0.571	(W/m²) 3.55 3.60	(mW/cm²) 0.713 0.666	
Body & Hotspot Body & Bod	ANT 6 ANT 6	Power State 1 Power State 1 Power State 1 Power	Back Back Back	UNII-5 UNII-5 UNII-6	15 47 111	6025.0 6185.0 6505.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160	(%) 94.84% 94.84% 94.84%	0.10 0.10 0.10	(dBm) 12.00 12.25 10.25	(dBm) 11.20 11.80 9.00	1.584 1.581 1.574	(A) 0.0412 0.0412 0.0412	(mm) 2 2 2	(W/m²) 1.96 2.25 2.35	0.394 0.416 0.520	(W/m²) 2.74 3.09 2.59	0.550 0.571 0.573	3.55 3.60 3.34	0.713 0.666 0.739	
Body & Hotspot Body &	ANT 6 ANT 6 ANT 6 ANT 6	Power State 1 Power	Back Back Back	Band UNII-5 UNII-5 UNII-6 UNII-7	15 47 111 143	6025.0 6185.0 6505.0 6665.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax	94.84% 94.84% 94.84% 94.84%	0.10 0.10 0.10 0.10 0.10	(dBm) 12.00 12.25 10.25 12.25	(dBm) 11.20 11.80 9.00 11.40	1.584 1.581 1.574 1.571	(A) 0.0412 0.0412 0.0412 0.0412	(mm) 2 2 2 2	(W/m²)  1.96  2.25  2.35  2.44	0.394 0.416 0.520 0.491	(W/m²)  2.74  3.09  2.59  2.84	(mWicm²)  0.550  0.571  0.573  0.572	3.55 3.60 3.34 3.73	(mW/cm²)  0.713  0.666  0.739  0.751	
Conditions  Body & Hotspot	ANT 6 ANT 6 ANT 6 ANT 6 ANT 6	Mode Pow er State 1 Pow er	Back Back Back Back Back	Band UNII-5 UNII-5 UNII-6 UNII-7 UNII-8	15 47 111 143 207	6025.0 6185.0 6505.0 6665.0 6985.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160	94.84% 94.84% 94.84% 94.84% 94.84%	0.10 0.10 0.10 0.10 0.10 0.10	(dBm) 12.00 12.25 10.25 12.25 11.50	(dBm) 11.20 11.80 9.00 11.40 10.30	1.584 1.581 1.574 1.571 1.564	(A) 0.0412 0.0412 0.0412 0.0412 0.0412	(mm) 2 2 2 2 2	(Wm²)  1.96  2.25  2.35  2.44  2.36	0.394 0.416 0.520 0.491 0.513	(Wm²)  2.74  3.09  2.59  2.84  2.71	(mWicm²)  0.550  0.571  0.573  0.572  0.589	3.55 3.60 3.34 3.73 3.30	0.713 0.666 0.739 0.751	
Conditions  Body & Hotspot	ANT 6	Mode  Pow er State 1  Pow er State 1	Back Back Back Back Front	Band UNII-5 UNII-5 UNII-6 UNII-7 UNII-8 UNII-8	15 47 111 143 207 207	6025.0 6185.0 6505.0 6665.0 6985.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax	94.84% 94.84% 94.84% 94.84% 94.84% 94.84%	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	(dBm) 12.00 12.25 10.25 12.25 11.50 11.50	(dBm) 11.20 11.80 9.00 11.40 10.30	1.584 1.584 1.574 1.574 1.571 1.564	0.0412 0.0412 0.0412 0.0412 0.0412 0.0412	(mm) 2 2 2 2 2 2 2	(Wim²)  1.96  2.25  2.35  2.44  2.36  0.075	(mWcm²)  0.394  0.416  0.520  0.491  0.513  0.016	(Winr)  2.74  3.09  2.59  2.84  2.71  0.075	(nWicm²)  0.550  0.571  0.573  0.572  0.589  0.016	(Wim²)  3.55  3.60  3.34  3.73  3.30  0.095	(mW/cm²)  0.713  0.666  0.739  0.751  0.717  0.021	

### A3523

RF Exposure Conditions	Transmitter	Pow er Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>n</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm²)	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm²)	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>mod</sub> (mW/cm²)
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	2.44	0.569	2.77	0.646	3.69	0.861
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	2.87	0.587	3.30	0.675	3.800	0.778
Body & Hotspot	ANT 5	Power State 1	Back	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	12.50	11.50	1.574	0.0412	2	2.76	0.577	3.14	0.656	3.580	0.748
Body & Hotspot	ANT 5	Power State 1	Back	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.25	12.40	1.571	0.0412	2	2.70	0.544	3.08	0.620	3.590	0.723
Body & Hotspot	ANT 5	Power State 1	Back	UNII-8	207	6985.0	802.11ax HE160	94.84%	0.10	12.50	11.30	1.564	0.0412	2	2.29	0.498	2.55	0.554	2.880	0.626
Body & Hotspot	ANT 5	Power State 1	Front	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	0.205	0.042	0.236	0.048	0.372	0.076
Body & Hotspot	ANT 5	Power State 1	Edge Top	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	0.226	0.046	0.266	0.054	0.287	0.059
Body & Hotspot	ANT 5	Power State 1	Edge Right	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	0.531	0.109	0.664	0.136	0.859	0.176
Body & Hotspot	ANT 5	Power State 1	Edge Left	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	0.175	0.036	0.181	0.037	0.193	0.039
RF Exposure Conditions	Transmitter	Power Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>n</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm²)	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm²)	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>mod</sub> (mW/cm²)
Body & Hotspot	ANT 6	Power State 1	Back	UNII-5	15	6025.0	802.11ax	94.84%												
Body & Hotspot	ANT 6	Pow er					HE160	34.0470	0.10	12.00	11.20	1.584	0.0412	2	2.76	0.554	3.41	0.685	4.80	0.964
		State 1	Back	UNII-5	47	6185.0	HE160 802.11ax HE160	94.84%	0.10	12.00	11.20	1.584	0.0412 0.0412	2	2.76 3.14	0.554	3.41 3.49	<b>0.685</b> 0.645	4.80 4.68	0.964 0.865
Body & Hotspot	ANT 6	State 1 Power State 1	Back Back	UNII-5 UNII-6	47 111	6185.0 6505.0	802.11ax HE160 802.11ax HE160													
	ANT 6	Pow er					802.11ax HE160 802.11ax HE160 802.11ax HE160	94.84%	0.10	12.25	11.80	1.581	0.0412	2	3.14	0.581	3.49	0.645	4.68	0.865
Hotspot Body &		Power State 1 Power	Back	UNII-6	111	6505.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160	94.84%	0.10	12.25	11.80 9.00	1.581	0.0412	2	3.14 2.35	0.581	3.49	0.645 0.553	4.68	0.865 0.733
Hotspot Body & Hotspot Body &	ANT 6	Power State 1 Power State 1 Power	Back Back	UNII-6 UNII-7	111	6505.0 6665.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160	94.84% 94.84% 94.84%	0.10 0.10 0.10	12.25 10.25 12.25	9.00 11.40	1.581 1.574 1.571	0.0412 0.0412 0.0412	2 2 2	3.14 2.35 2.83	0.581 0.520 0.570	3.49 2.50 3.10	0.645 0.553 0.624	4.68 3.31 4.16	0.865 0.733 0.838
Hotspot  Body & Hotspot	ANT 6	Power State 1 Power State 1 Power State 1 Power State 1 Power State 1	Back Back Back	UNII-6 UNII-7 UNII-8	111 143 207	6505.0 6665.0 6985.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160	94.84% 94.84% 94.84% 94.84%	0.10 0.10 0.10 0.10	12.25 10.25 12.25 11.50	9.00 11.40 10.30	1.581 1.574 1.571 1.564	0.0412 0.0412 0.0412 0.0412	2 2 2 2	3.14 2.35 2.83 2.69	0.581 0.520 0.570 0.585	3.49 2.50 3.10 2.93	0.645 0.553 0.624 0.637	4.68 3.31 4.16 3.56	0.865 0.733 0.838 0.774
Hotspot Body & Body &	ANT 6 ANT 6	Power State 1 Power State 1 Power State 1 Power State 1 Power	Back Back Back Front	UNII-6 UNII-7 UNII-8 UNII-5	111 143 207 15	6505.0 6665.0 6985.0 6025.0	802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax HE160 802.11ax	94.84% 94.84% 94.84% 94.84%	0.10 0.10 0.10 0.10 0.10	12.25 10.25 12.25 11.50	11.80 9.00 11.40 10.30 11.20	1.581 1.574 1.571 1.564 1.584	0.0412 0.0412 0.0412 0.0412 0.0412	2 2 2 2 2	3.14 2.35 2.83 2.69 0.122	0.581 0.520 0.570 0.585 0.025	3.49 2.50 3.10 2.93 0.136	0.645 0.553 0.624 0.637 0.027	4.68 3.31 4.16 3.56 0.147	0.865 0.733 0.838 0.774 0.030

### A3524

1002																					_
F Exposure Conditions	Transmitter	Pow er Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>h</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm²)	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm²)	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>moc</sub> (mW/cm²)	Plo No
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	2.59	0.604	2.89	0.674	3.79	0.884	11
Body & Hotspot	ANT 5	Power State 1	Back	UNII-5	79	6345.0	802.11ax HE160	94.84%	0.10	12.50	11.60	1.577	0.0412	2	2.36	0.483	2.78	0.569	3.340	0.683	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	12.50	11.50	1.574	0.0412	2	2.46	0.514	2.82	0.589	3.460	0.723	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	13.25	12.40	1.571	0.0412	2	2.61	0.526	2.88	0.580	3.770	0.759	
Body & Hotspot	ANT 5	Power State 1	Back	UNII-8	207	6985.0	802.11ax HE160	94.84%	0.10	12.50	11.30	1.564	0.0412	2	2.39	0.520	2.59	0.563	3.120	0.678	
Body & Hotspot	ANT 5	Power State 1	Front	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	0.308	0.072	0.326	0.076	0.381	0.089	
Body & Hotspot	ANT 5	Power State 1	Edge Top	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	0.175	0.041	0.184	0.043	0.203	0.047	
Body & Hotspot	ANT 5	Power State 1	Edge Right	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	0.395	0.092	0.413	0.096	0.563	0.131	
Body & Hotspot	ANT 5	Power State 1	Edge Left	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.75	11.30	1.584	0.0412	2	0.050	0.012	0.054	0.013	0.064	0.015	
F Exposure Conditions	Transmitter	Pow er Mode	Test Position	U-NII Band	Ch No.	Freq. (MHz)	Mode	Duty Cycle (%)	Conversion Factor	TuP Limit (dBm)	Meas. (dBm)	Uncertainty Scaling Factor	Grid Step Size (λ)	Dist. (mm)	Meas. psPD <sub>n</sub> (W/m²)	Scaled psPD <sub>n</sub> (mW/cm²)	Meas. psPD <sub>tot</sub> (W/m²)	Scaled psPD <sub>tot</sub> (mW/cm²)	Meas. psPD <sub>mod</sub> (W/m²)	Scaled psPD <sub>moc</sub> (mW/cm²)	Pk No
Body & Hotspot	ANT 6	Power State 1	Back	UNII-5	15	6025.0	802.11ax HE160	94.84%	0.10	12.00	11.20	1.584	0.0412	2	2.14	0.430	2.86	0.574	4.18	0.840	
Body & Hotspot	ANT 6	Power State 1	Back	UNII-5	47	6185.0	802.11ax HE160	94.84%	0.10	12.25	11.80	1.581	0.0412	2	2.16	0.399	2.92	0.540	4.29	0.793	
Body & Hotspot	ANT 6	Power State 1	Back	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	10.25	9.00	1.574	0.0412	2	2.68	0.593	2.93	0.649	3.98	0.881	
Body & Hotspot	ANT 6	Power State 1	Back	UNII-7	143	6665.0	802.11ax HE160	94.84%	0.10	12.25	11.40	1.571	0.0412	2	2.55	0.514	2.92	0.588	3.81	0.767	Ī
Body & Hotspot	ANT 6	Power State 1	Back	UNII-8	207	6985.0	802.11ax HE160	94.84%	0.10	11.50	10.30	1.564	0.0412	2	2.23	0.485	2.60	0.565	3.28	0.713	
Body & Hotspot	ANT 6	Power State 1	Front	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	10.25	9.00	1.574	0.0412	2	0.10	0.021	0.10	0.022	0.11	0.025	
Body & Hotspot	ANT 6	Power State 1	Edge Top	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	10.25	9.00	1.574	0.0412	2	0.291	0.064	0.292	0.065	0.301	0.067	
Body & Hotspot	ANT 6	Power State 1	Edge Right	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	10.25	9.00	1.574	0.0412	2	0.051	0.011	0.055	0.012	0.075	0.017	
Body & Hotspot	ANT 6	Power State 1	Edge Left	UNII-6	111	6505.0	802.11ax HE160	94.84%	0.10	10.25	9.00	1.574	0.0412	2	0.18	0.040	0.19	0.042	0.20	0.044	

## **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**