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WIFI 6 GHZ RF EXPOSURE EVALUATION

Applicant Name

Apple, Inc. One Apple Park Way Cupertino, CA 95014 Date of Testing 07/07/2022 – 09/20/2022 Test Site/Location Element Washington DC LLC Morgan Hill, CA, USA Document Serial No: 1C2205090028-33.BCG (Rev 1)

FCC ID:	BCGA2764	
APPLICANT:	APPLE, INC.	
DUT Type: Application Type:	Tablet Device Certification	

Application Type: FCC Rule Part(s): Model: Certification CFR §2.1093 A2764

Band & Mode	Tx Frequency	SAR	APD	PD
	MHz	1g Body - Tablet (W/kg)	Body - Tablet (W/m ²)	psPD (W/m²)
WIFI 6 GHz	5955-7115	1.19	6.13	6.68

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.







Executive Vice President

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Tx Frequency
U-NII-5	5955 - 6415 MHz
U-NII-6	6435 - 6515 MHz
U-NII-7	6535 - 6875 MHz
U-NII-8	6895 - 7115 MHz

1.2 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for WLAN operations. When WLAN is operating simultaneously with certain combinations of 3G/4G, 5 GHz WLAN, and 6 GHz WLAN antennas, the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. WIFI time-averaged SAR verification appendix includes verification data for this time-averaged SAR mechanism.

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1.3 Nominal and Maximum Output Power Specifications

The device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01.

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix of Measurement Report SN 1C2205090028-26.BCG.

1		Maximur		ime-Averag	ed Outp
		IEEE 802.11 (I	Maximum in dBm	n) - Ant 5b (Tolerar	ice +0/-3.00dl
Mode	Channel	SISO		MI	мо
		а	ax (SU)	ax (SU) CDD	ax (SU) SDN
	1	3.50	3.50	-1.50	1.50
	5	3.50	3.50	-1.50	1.50
	9-29	3.50	3.50	-1.50	1.50
	33-61	3.25	3.25	-1.50	1.50
6 GHz	65-85	2.75	2.75	-1.75	1.00
WIFI	89	2.75	2.75	-1.75	1.00
(20MHz	93	2.75	2.75	-1.75	1.00
BW)	97-113	3.00	3.00	-1.75	1.25
Бүүј	117-181	3.25	3.25	-1.50	1.50
	185	3.25	3.25	-1.50	1.50
	189-225	5.00	5.00	1.00	3.75
	229	5.00	5.00	1.00	3.75
	233	4.50	4.50	1.00	3.75
	3		6.50	1.50	4.50
	11		6.50	1.50	4.50
	19-27		6.50	1.50	4.50
	35-59		6.25	1.50	4.50
6 GHz	67-75		5.75	1.25	4.00
WIFI	83		5.75	1.25	4.00
(40MHz	91		5.75	1.25	4.00
BW)	99-107		6.00	1.25	4.25
БVV)	115		6.00	1.25	4.25
	123-179		6.25	1.50	4.50
	187		6.25	1.50	4.50
	195-219		8.00	4.00	6.75
	227		8.00	4.00	6.75
	7		9.50	4.50	7.50
	23		9.50	4.50	7.50
	39-55		9.25	4.50	7.50
6 GHz	71		8.75	4.25	7.00
WIFI	87		8.75	4.25	7.00
(80MHz	103		9.00	4.25	7.25
BW)	119		9.00	4.25	7.25
500)	135-167		9.25	4.50	7.50
	183		9.25	4.50	7.50
	199		11.00	7.00	9.75
	215		11.00	7.00	9.75
	15		12.50	7.50	10.50
6 GHz	47		12.25	7.50	10.50
WIFI (160MHz	79		12.75	8.25	11.00
	111		13.00	8.25	11.25
BW)	143		12.75	8.00	11.00
,	175		13.25	8.50	11.50
	207		13.25	10.50	13.25

1.3.1 Maximum WLAN Time-Averaged Output Power

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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			laximum in dBm)	-	
Mode	Channel	SI	SO	MI	
		а	ax (SU)	ax (SU) CDD	ax (SU) SDM
	1	3.50	3.50	-1.50	1.50
	5	3.50	3.50	-1.50	1.50
	9-29	3.50	3.50	-1.50	1.50
	33-61	3.25	3.25	-1.50	1.50
6 GHz	65-85	2.75	2.75	-1.75	1.00
WIFI	89	2.75	2.75	-1.75	1.00
(20MHz	93	2.75	2.75	-1.75	1.00
BW)	97-113	3.00	3.00	-1.75	1.25
511)	117-181	3.25	3.25	-1.50	1.50
	185	3.25	3.25	-1.50	1.50
	189-225	5.00	5.00	1.00	3.75
	229	5.00	5.00	1.00	3.75
	233	4.50	4.50	1.00	3.75
	3		6.50	1.50	4.50
	11		6.50	1.50	4.50
	19-27		6.50	1.50	4.50
	35-59		6.25	1.50	4.50
	67-75		5.75	1.25	4.00
6 GHz	83		5.75	1.25	4.00
WIFI	91		5.75	1.25	4.00
(40MHz	99-107		6.00	1.25	4.25
BW)	115		6.00	1.25	4.25
	123-179		6.25	1.50	4.50
	187		6.25	1.50	4.50
	195-219		8.00	4.00	6.75
	227		8.00	4.00	6.75
	7		9.00	4.50	7.50
	23		9.00	4.50	7.50
	39-55		8.25	4.25	7.00
	71		8.25	4.25	7.00
6 GHz	87		8.75	4.25	7.00
WIFI	103		9.00	4.25	7.25
(80MHz	119		9.00	4.25	7.25
BW)	135-167		9.25	4.50	7.50
	183		9.25	4.50	7.50
	199		10.50	7.00	9.75
	215		10.50	7.00	9.75
	15		9.00	7.50	9.00
6.01	47		8.25	7.50	8.25
6 GHz WIFI	79		10.25	8.25	10.25
	111		9.75	8.25	9.75
160MHz	143		9.75	8.00	9.75
BW)	175		9.75	8.50	9.75
	207		10.50	10.50	10.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.2 Reduced WLAN Time-Averaged Output Power

The below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2a/2b active
- Simultaneous conditions with Inter-Band ULCA active
- Simultaneous conditions with mmW Active

	IS CONDITIONS WITH MMW ACTIVE					
Mode	Channel	SISO		MIMO		
	channer	а	ax (SU)	ax (SU) CDD	ax (SU) SDM	
	1	3.50	3.50	-1.50	1.50	
	5	3.50	3.50	-1.50	1.50	
	9-29	3.50	3.50	-1.50	1.50	
	33-61	3.25	3.25	-1.50	1.50	
	65-85	2.75	2.75	-1.75	1.00	
6 GHz	89	2.75	2.75	-1.75	1.00	
WIFI	93	2.75	2.75	-1.75	1.00	
(20MHz	97-113	3.00	3.00	-1.75	1.25	
BW)	117-181	3.25	3.25	-1.50	1.50	
	185	3.25	3.25	-1.50	1.50	
	189-225	5.00	5.00	1.00	3.75	
	229	5.00	5.00	1.00	3.75	
	233	4.50	4.50	1.00	3.75	
	3	4.50	6.50	1.50	4.50	
	11		6.50	1.50	4.50	
	19-27		6.50	1.50	4.50	
	35-59		6.25	1.50	4.50	
	67-75		5.75	1.25	4.00	
6 GHz	83		5.75	1.25	4.00	
WIFI	91		5.75	1.25	4.00	
(40MHz	99-107		6.00	1.25	4.00	
BW)	115		6.00	1.25	4.25	
	123-179		6.25	1.50	4.23	
	123-175		6.25	1.50	4.50	
	195-219		8.00	4.00	6.75	
	227		8.00	4.00	6.75	
	7		9.50	4.50	7.50	
	23		9.50	4.50	7.50	
	39-55		9.25	4.50	7.50	
	71		8.75	4.25	7.00	
6 GHz	87		8.75	4.25	7.00	
WIFI	103		9.00	4.25	7.00	
(80MHz	103		9.00	4.25	7.25	
BW)	135-167		9.25	4.50	7.50	
	183		9.25	4.50	7.50	
	199 215		9.25	7.00	9.25	
	215		9.25	7.00	9.25	
	15		10.50	7.50	10.50	
6 GHz	47		9.75	7.50	9.75	
WIFI	79		9.75	8.25	9.75	
(160MHz	111		11.25	8.25	11.25	
BW)	143		11.25	8.00	11.00	
-	175		11.25	8.50	11.25	
0 anara	207		9.25	9.25	9.25	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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The below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 4b active
- Simultaneous conditions with Inter-Band ULCA active
- Simultaneous conditions with mmW Active

		IEEE 802.11 (M	aximum in dBm)	- Ant 4a (Toleran	ce +0/-3.00dB)
Mode	Channel	SIS	SISO MIMO		мо
		а	ax (SU)	ax (SU) CDD	ax (SU) SDM
	1	3.50	3.50	-1.50	1.50
	5	3.50	3.50	-1.50	1.50
	9-29	3.50	3.50	-1.50	1.50
	33-61	3.25	3.25	-1.50	1.50
	65-85	2.75	2.75	-1.75	1.00
6 GHz	89	2.75	2.75	-1.75	1.00
WIFI	93	2.75	2.75	-1.75	1.00
(20MHz	97-113	3.00	3.00	-1.75	1.25
BW)	117-181	3.25	3.25	-1.50	1.50
	185	3.25	3.25	-1.50	1.50
	189-225	5.00	5.00	1.00	3.75
	229	5.00	5.00	1.00	3.75
	233	4.50	4.50	1.00	3.75
	3		4.75	1.50	4.50
	11		4.75	1.50	4.50
	19-27		4.75	1.50	4.50
	35-59		4.75	1.50	4.50
	67-75		4.75	1.25	4.00
6 GHz	83		4.75	1.25	4.00
WIFI	91		4.75	1.25	4.00
(40MHz	99-107		4.25	1.25	4.25
BW)	115		4.25	1.25	4.25
	123-179		4.25	1.50	4.25
	123 175		5.00	1.50	4.50
	195-219		5.00	4.00	5.00
	227		5.00	4.00	5.00
	7		4.75	4.50	4.75
	23		4.75	4.50	4.75
	39-55		4.75	4.25	4.75
6 GHz	71		4.75	4.25	4.75
WIFI	87		4.75	4.25	4.75
(80MHz	103 119		4.25 4.25	4.25	4.25 4.25
BW)	135-167		4.25	4.25	4.25
				4.25	
	183		4.25		4.25
	199		5.00	5.00	5.00
	215		5.00	5.00	5.00
	15		4.75	4.75	4.75
6 GHz	47		4.75	4.75	4.75
WIFI	79		4.75	4.75	4.75
160MHz	111		4.25	4.25	4.25
BW)	143		4.25	4.25	4.25
,	175		4.25	4.25	4.25
	207		5.00	5.00	5.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in SAR Part 1 Report, DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

Table 1-1

Device Surfaces - Tablet						
Device Sides/Edges for Testing						
Mode	Back	Front	Тор	Bottom	Right	Left
6 GHz WLAN Ant 5B	Yes	No	No	No	Yes	No
6 GHz WLAN Ant 4A	Yes	No	Yes	No	No	Yes

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01. Additional edges may have been evaluated for simultaneous transmission analysis.

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1.5 Miscellaneous Testing Considerations

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d= λ /5mm is \geq -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

6 GHz WIFI SAR results are used for simultaneous transmission analysis with the other WWAN/BT/WIFI transmitters. Analysis can be found in SAR report.

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T, 996T, and 996T*2.

Per FCC Guidance, 802.11ax RU was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax RU based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please see Measurement Report SN 1C2205090028-26.BCG for 802.11ax RU output powers.

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN SAR/APD worst case configuration was tested for Variant 1 and Variant 2.

1.6 Guidance Applied

- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D02 v01r02
- FCC KDB 248227 D01 v02r02
- FCC KDB 447498 D01
- FCC KDB 865664 D01 v01r04
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- FCC KDB Publication 616217 D04v01r02
- FCC KDB 616217 D04 v01r02

1.7 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 9.

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2 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996, and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [15]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [44] and Health Canada RF Exposure Guidelines Safety Code 6 [35]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [17] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1 SAR Mathematical Equation

SAR =	d	$\left(\underline{dU} \right)$	d	$\left(dU \right)$
SAN -	dt	dm	$\frac{-dt}{dt}$	$\left(\overline{\rho dv} \right)$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:		
σ	=	conductivity of the tissue-simulating material (S/m)
ρ	=	mass density of the tissue-simulating material (kg/m ³)
E	=	Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[20]

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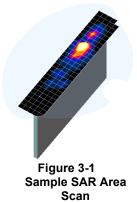


3 DOSIMETRIC ASSESSMENT

3.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE1528-2013:

- The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.



3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points ($10 \times 10 \times 10$) were obtained through interpolation, in order to calculate the averaged SAR.

c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Maximum Area Scan	Maximum Zoom Scan		imum Zoom Scan Spatial Resolution (mm)		Minimum Zoom Scan
$(\Delta x_{area}, \Delta y_{area})$	$(\Delta x_{200m}, \Delta y_{200m})$	Uniform Grid	Graded Grid		Volume (mm) (x,y,z)
		∆z _{zoom} (n)	$\Delta z_{zoom}(1)^*$	$\Delta z_{zoom}(n>1)^*$	
≤ 15	≤8	≤5	≤4	≤1.5*∆z _{zoom} (n-1)	≥ 30
≤ 12	≤5	≤5	≤4	≤1.5*∆z _{zoom} (n-1)	≥ 30
≤ 12	≤5	≤4	≤3	≤1.5*Δz _{zoom} (n-1)	≥ 28
≤ 10	≤4	≤ 3	≤ 2.5	≤1.5*Δz _{zoom} (n-1)	≥ 25
≤ 10	≤4	≤2	≤2	≤1.5*∆z _{zoom} (n-1)	≥ 22
	Resolution (mm) $(\Delta x_{area}, \Delta y_{area})$ ≤ 15 ≤ 12 ≤ 12 ≤ 10	Resolution (mm) ($\Delta x_{arear}, \Delta y_{arear}$) Resolution (mm) ($\Delta x_{arear}, \Delta y_{arear}$) ≤ 15 ≤ 8 ≤ 12 ≤ 5 ≤ 10 ≤ 4 ≤ 10 ≤ 4	$\begin{array}{c c} \text{Resolution (mm)} \\ (\Delta x_{arear} \Delta y_{arear}) \\ \hline \end{array} \\ \begin{array}{c} \text{Resolution (mm)} \\ (\Delta x_{zoom}, \Delta y_{zoom}) \\ \hline \end{array} \\ \begin{array}{c} \text{Uniform Grid} \\ \hline \Delta z_{zoom}(n) \\ \hline \Delta z_{zoom}(n) \\ \hline \\ \\ $	$\begin{array}{c c} \text{Resolution (mm)}\\ (\Delta x_{areav}, \Delta y_{areav})\\ (\Delta x_{areav}, \Delta y_{areav})\\ \hline \end{array} \begin{array}{c} \text{Resolution (mm)}\\ (\Delta x_{areav}, \Delta y_{areav})\\ \hline \end{array} \begin{array}{c} \text{Uniform Grid} & \text{Grid} \\ \hline \\ \Delta z_{areav}(m) & \Delta z_{areav}(1)^* \\ \hline \\ \leq 12 & \leq 5 & \leq 4 \\ \leq 12 & \leq 5 & \leq 4 \\ \hline \\ \leq 12 & \leq 5 & \leq 4 \\ \leq 12 & \leq 2 & \leq 2 \\ \hline \\ \leq 10 & \leq 4 & \leq 2 & \leq 2 \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Table 3-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

*Also compliant to IEEE 1528-2013 Table 6

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4 TEST CONFIGURATION POSITIONS

4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity ϵ = 3 and loss tangent δ = 0.02.

4.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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5 RF EXPOSURE LIMITS

5.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e., as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

5.3 RF Exposure Limits for Frequencies Below 6 GHz

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

 Table 5-1

 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2. The Spatial Average value of the SAR averaged over the whole body.

3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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5.4 **RF Exposure Limits for Frequencies Above 6 GHz**

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

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

Table 5-2 Human Exposure Limits Specified in FCC 47 CFR §1.1310			
Human Exposure to Radiofrequency (RF) Radiation Limits			
Frequency Range [MHz]Power Density [mW/cm²]Average Time [Minutes]			
(A) Limi	ts For Occupational / Controlled E	nvironments	
1,500 - 100,000	5.0	6	
(B) Limits For General Population / Uncontrolled Environments			
1,500 – 100,000	1.0	30	
Note: 1.0 mW/cm ² is 10 W/m ²			

Note: 1.0 mW/cm² is 10 W/m²

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6 MEASUREMENT PROCEDURES

6.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

6.2 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

6.2.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

6.2.2 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

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6.2.3 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 6.2.2). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.4 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.5 MIMO SAR Considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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7 RF CONDUCTED POWERS

Table 7-1 6 GHz WLAN Maximum Average RF Power – 802.11ax 160 MHz BW, Antenna 5B, Variant 1

6GHz (160MHz) Conducted Power [dBm]		
		IEEE Transmission
	Channel	Mode
Freq [MHz]		802.11ax
		Average
6025	15	10.88
6185	47	10.67
6505	111	12.02
6825	175	12.25
6985	207	12.51

Table 7-2 6 GHz WLAN Reduced Average RF Power – 802.11ax 160 MHz BW, Antenna 5B, Variant 1 6GHz (160MHz) Conducted Power [dBm]

6GHZ (1601MHZ) Conducted Power [dBm]		
	Channel	IEEE Transmission Mode
Freq [MHz]		802.11ax
		Average
6025	15	9.64
6185	47	7.37
6505	111	10.66
6665	143	10.46
6825	175	10.45
6985	207	8.57

Table 7-3 6 GHz WLAN Maximum Average RF Power – 802.11ax 160 MHz BW, Antenna 5B, Variant 2 6 GHz (160MHz) Conducted Power IdBml

6GHz (160MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ax
		Average
6025	15	10.91
6185	47	10.67
6505	111	12.04
6825	175	12.26
6985	207	12.51

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Table 7-46 GHz WLAN Reduced Average RF Power – 802.11ax 160 MHz BW, Antenna 5B, Variant 2

6GHz (160MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ax Average
6025	15	9.80
6185	47	7.89
6505	111	10.25
6825	175	10.27
6985	207	8.64



6 GHz WLAN Maximum Average RF Power – 802.11ax 160 MHz BW, Antenna 4A, Variant 1 6GHz (160MHz) Conducted Power [dBm]

Channel	IEEE Transmission	
	Mode	
	802.11ax	
	Average	
15	7.16	
47	7.80	
111	8.94	
175	9.19	
207	9.98	
	Channel 15 47 111 175	

 Table 7-6

 6 GHz WLAN Reduced Average RF Power – 802.11ax 160 MHz BW, Antenna 4A, Variant 1

 GGHz (160MHz) Conducted Power IdBm1

6GHZ (1601MHZ) Conducted Power [dBm]									
		IEEE Transmission							
Freq [MHz]	Channel	Mode							
	Channel	802.11ax							
		Average							
6025	15	3.61							
6185	47	3.89							
6505	111	3.32							
6825	175	3.54							
6985	207	4.19							

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Table 7-7 6 GHz WLAN Maximum Average RF Power – 802.11ax 160 MHz BW, Antenna 4A, Variant 2 6GHz (160MHz) Conducted Power [dBm]

6GHz (160MHz) Conducted Power [dBm]										
		IEEE Transmission								
	Channel	Mode								
Freq [MHz]	Channel	802.11ax								
		Average								
6025	15	7.30								
6185	47	7.56								
6505	111	8.85								
6825	175	8.98								
6985	207	9.77								

Table 7-8 6 GHz WLAN Reduced Average RF Power – 802.11ax 160 MHz BW, Antenna 4A, Variant 2 Output (100 MHz) Output Descent Descen Descent Descent Descent Descent Descent Desce

6GHz (160MHz) Conducted Power [dBm]									
		IEEE Transmission							
		Mode							
Freq [MHz]	Channel	802.11ax							
		Average							
6025	15	3.67							
6185	47	3.64							
6505	111	3.24							
6825	175	3.53							
6985	207	4.15							

Table 7-9
WLAN Power Reduction Verification

			Maximum Target Power	Reduced Target Power	Maximum	Reduced	
Antenna	Mode/Band	Condition (s)	[dBm]	[dBm]	Measured Power	Measured Power	Verdict
			(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]	
Ant 4A	6.5 GHz WLAN (Ch. 47)	Main Band Ant 4B ON	6.75 (+1.5/-1.5)	3.25 (+1.5/-1.5)	7.21	2.27	Pass
Ant 4A	6.5 GHz WLAN (Ch. 47)	mmW/ULCA On	6.75 (+1.5/-1.5)	3.25 (+1.5/-1.5)	7.21	2.24	Pass
	6E GHz WLAN (Ch. 207)	Main Band Ant 2A ON	11.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.92	8.75	PASS
Ant 5B	6E GHz WLAN (Ch. 207)	Main Band Ant 2B ON	11.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.92	8.19	PASS
	6E GHz WLAN (Ch. 207)	mmW/ULCA On	11.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.92	8.10	PASS

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

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Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spot checked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN configurations.

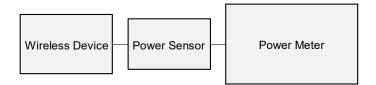


Figure 7-1 Power Measurement Setup

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8 SYSTEM VERIFICATION

8.1 SAR Test System Verification

Table 8-1 **Measured Tissue Properties** TARGET Calibrated for Tissue Temp Measured Measured Measured TARGET Tests Tissue Type During Conductivity, Dielectric Conductivity, Dielectric % dev σ % dev ε Frequency Calibration (°C) (MHz) Performed on: σ (S/m) Constant, ɛ σ (S/m) Constant, a 5935 5.227 35.377 5.411 35.143 -3.40% 0.67% 5970 5.276 35.296 5.448 35.120 -3.16% 0.50% 5.295 35.288 -3.09% 0.51% 5985 5.464 35.110 6000 5.313 35.272 5.480 35.100 -3.05% 0.49% 5.510 -2.94% 0.44% 6025 5.348 35.070 6065 5.391 35.185 5.557 35.022 -2.99% 0.47% 5 403 35 163 5.569 -2.98% 0.44% 6075 35.010 6085 5.415 35.143 5.580 34.998 -2.96% 0.41% 6275 5.660 34,775 5.805 34,770 -2.50% 0.01% 5.816 34.758 6285 5.671 34.773 -2.49% 0.04% 6305 5.683 34.752 5.840 34.734 -2.69% 0.05% 6345 5.727 34.659 5.887 34.686 -2.72% -0.08% -0 25% 6475 5.881 34.444 6.041 34.530 -2.65% 07/07/2022 6500 Head 21.0 6485 5.891 34.424 6.052 34.518 -2.66% -0.27% 6500 5.911 34.403 6.070 34.500 -2.62% -0.28% 5.918 34.393 -2.60% -0.29% 6505 6.076 34.494 6545 5.978 34.323 6.122 34.446 -2.35% -0.36% 6675 6.146 34.125 6.273 34.290 -2.02% -0.48% -2.13% -0.52% 6685 6.151 34.099 6.285 34.278 6715 6 1 7 6 34 007 6.319 34.242 -2.26% -0.69% 33.932 -2.25% -0.66% 6785 6.256 6.400 34.158 6825 6.304 33.790 6.447 34.110 -2.22% -0.94% 6985 6.486 6.633 33.918 -2.22% -0.91% 33.609 6995 6.487 33.604 6.644 33.906 -2.36% -0.89% 7000 6.490 33.593 6.650 33.900 -2.41% -0.91% 7005 6.494 33.580 6.656 33.894 -2.43% -0.93% 7025 6.680 33.870 -2.32% -1.09% 6.525 33,502 5.201 34.972 5935 5.411 35.143 -3.88% -0.49% 5.245 34.888 5.448 35.120 -3.73% -0.66% 5970 5985 5.262 34.870 5.464 35.110 -3.70% -0.68% -3.70% -0.73% 6000 5.277 34.844 5.480 35.100 6025 5.313 34.806 5.510 35.070 -3.58% -0.75% 34.726 5.356 5.557 6065 35.022 -3.62% -0.85% 5.368 34.705 5.569 35.010 -3.61% -0.87% 6075 6085 5.382 34.686 5.580 34.998 -3.55% -0.89% 6275 34.360 5.805 34.770 -3.34% -1.18% 5.611 6285 5.625 34.3<u>38</u> 5.816 34.758 -3.28% -1.21% 5.644 34.306 6305 5.840 34.734 -3.36% -1.23% 6345 5.706 34.259 34.686 -3.07% -1.23% 5.887 6475 5.844 34 029 6.041 34.530 -3.26% -1.45% 07/15/2022 6500 Head 20.3 6485 5.855 34.008 6.052 34.518 -3.26% -1.48% 6500 5.870 33.981 6.070 34.500 -3.29% -1.50% 5.875 33.969 6.076 34.494 -3.31% -1.52% 6505 6545 5.941 33.900 6.122 34.446 -2.96% -1.59% <u>6.</u>273 -1.71% 6675 6.098 33.704 34.290 -2.79% 6685 6.098 33.680 6.285 34.278 -2.98% -1.74% 33.578 6.132 34.242 -2.96% -1.94% 6715 6.319 6785 6.215 33.549 6.400 34.158 -2.89% -1.78% 6825 6.447 34.110 33.398 -2.87% -2.09% 6.262 6985 6.447 33.189 33.918 -2.80% -2.15% 6.633 6995 6 4 5 0 33 179 -2.14% 6 6 4 4 33.906 -2.92% 6.450 33.177 -3.01% -2.13% 7000 6.650 33.900 -2.12% -3.03% 7005 6 4 5 4 33.174 6.656 33.894 -2.24% 7025 6.479 33.112 6.680 33.870 -3.01%

FCC ID: BCGA2764	WIFI 6 GHZ RF EXPOSURE EVALUATION	Approved by: Technical Manager
Document S/N: 1C2205090028-33.BCG (Rev 1)	DUT Type: Tablet Device	Page 21 of 38
		REV 2.0

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Tesue Type on: During Calibritity (C) During Prequency (MMR) Measure Ordital (MMR) (C) Measure Constant, C) DarkCell (C) DarkCell (C) <thd< th=""><th colspan="14">Measured Tissue Properties (cont.)</th></thd<>	Measured Tissue Properties (cont.)													
99/07/2022 6500 Head 22.5 590 Head 22.5 590 Head 22.5 590 Head 22.5 590 Head 23.5 590 Head 23.5 590 Head 24.5 590 Head 25.5 590 Head 590 Head 590 590 Head 590 Head 590 He	Performed	Tissue Type	During Calibration	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε				
99/07/2022 6500 Head 92.5 7 6500 Head 92.5 7 6500 Head 92.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				5935	5.413	35.739	5.411	35.143	0.04%	1.70%				
99/07/2022 6500 Head 22.5 5.527 35.567 5.510 35.000 0.28% 1.48% 09/07/2022 6500 Head 22.5 5.527 35.501 35.010 0.38% 1.38% 09/07/2022 6500 Head 22.5 5.527 35.846 5.580 34.798 0.97% 0.97% 6500 Head 22.5 5.833 35.106 5.800 34.778 0.67% 0.97% 6900 5.438 35.106 5.800 34.778 0.67% 0.97% 6345 5.930 35.028 5.887 34.686 0.73% 0.99% 6475 6.070 34.779 6.027 3.4580 0.63% 0.69% 6500 6.117 34.726 6.076 34.490 0.63% 0.69% 6675 6.339 34.455 6.273 34.200 0.6% 0.6% 6675 6.339 34.455 6.273 34.242 1.72% 0.8% 6675 6.339 34				5970	5.455	35.662	5.448	35.120	0.13%	1.54%				
99/07/2022 6500 Head 52.5 55.57 35.501 55.57 35.001 0.37% 1.42% 99/07/2022 6500 Head 5.527 35.501 5.557 35.001 0.34% 1.38% 99/07/2022 6500 Head 22.5 5.83 35.101 5.840 34.778 0.67% 0.97% 69/07/2022 6500 Head 22.5 6485 6.090 34.757 6.052 34.518 0.68% 0.69% 69/07/2022 6500 Head 22.5 6485 6.090 34.757 6.052 34.518 0.68% 0.69% 69/07/2022 6500 6.111 34.737 6.076 34.494 0.67% 0.68% 0.68% 0.69% 0.67% 0.67% 0.67% 0.67% 0.68% 0.68% 0.639 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.67% 0.66%				5985	5.475	35.642	5.464	35.110	0.20%	1.52%				
09/07/2022 6500 Head 22.5 6095 5.574 35.010 5.588 5.588 5.588 5.588 5.500 5.583 5.510 5.580 34.780 0.47% 0.99% 0.610 34.757 0.602 34.501 0.502 34.501 0.502 0.451 0.659 0.511 34.472 0.502 34.481 0.67% 0.97% 0				6000	5.494	35.614	5.480	35.100	0.26%	1.46%				
99/07/2022 6500 Head 22.5 6500 Head 22.5 6265 5.603 35.463 5.569 34.998 0.41% 1.38% 6225 5.633 35.101 5.816 34.770 0.57% 0.97% 0.67% 0.97% 0.67% 0.67 34.777 6.070 34.510 0.67%				6025	5.527	35.567	5.510	35.070	0.31%	1.42%				
09/07/2022 6500 Head 22.5 6633 5633 563 35.106 5805 34.770 0.57% 0.97% 6.97% 6285 5.633 35.101 5.816 34.78 0.47% 0.97% 6395 633 5.30 35.064 5.840 34.78 0.67% 0.99% 6435 5.830 35.064 5.840 34.78 0.63% 0.99% 6435 5.930 34.787 6.041 34.53 0.57% 0.99% 6475 6.074 34.477 6.041 34.530 0.69% 0.69% 6505 6.110 34.726 6.076 34.494 0.67% 0.69% 6505 6.110 34.726 6.076 34.494 0.67% 0.69% 0.69% 6655 6.333 34.455 6.273 34.220 1.05% 0.49% 6695 6.718 33.918 6.633 33.918 1.12% 0.29% 6995 6.718 33.918 6.680 33.890 1.07% 0.09% 7005 6.723 33.918 1.08% 0.99% 7025 6.750 33.918 1.08% 0.09% 7025 6.750 33.918 1.08% 0.09% 7025 6.750 33.918 1.08% 0.09% 7025 6.750 33.910				6065	5.574	35.501	5.557	35.022	0.31%	1.37%				
99/07/2022 6500 Head 22.5 5.833 35.101 5.816 34.778 0.67% 0.99% 6305 5.877 35.064 5.840 34.738 0.64% 0.99% 6345 5.930 35.028 5.887 34.666 0.73% 0.99% 6475 6.074 34.777 6.041 34.530 0.65% 0.72% 6485 6.090 34.737 6.070 34.500 0.66% 0.69% 6505 6.110 34.737 6.070 34.494 0.67% 0.69% 6505 6.110 34.737 6.070 34.494 0.67% 0.69% 6655 6.333 34.455 6.273 34.290 1.09% 0.49% 6685 6.343 34.450 6.285 34.291 0.404% 0.99% 6.29% 6725 6.465 34.291 6.400 34.130 1.12% 0.29% 6895 6.712 33.912 6.656 33.891 1.00%				6075	5.588	35.483	5.569	35.010	0.34%	1.35%				
09/07/2022 6500 Head 22.5 6305 5.877 35.064 5.840 34.734 0.63% 0.99% 6435 5.830 35.028 5.840 34.734 0.63% 0.99% 6435 5.930 35.028 5.840 34.734 0.63% 0.99% 6435 6.074 34.777 6.041 34.530 0.55% 0.73% 0.99% 66505 6.110 34.777 6.070 34.500 0.66% 0.63% 6699 66505 6.117 34.737 6.070 34.500 0.66% 0.63% 66505 6.110 34.737 6.070 34.500 0.66% 0.63% 6650 6.11 34.737 6.070 34.500 0.66% 0.63% 6650 6.11 34.731 6.07 34.200 1.0% 0.69% 6675 6.330 34.405 6223 34.21 1.2% 0.2% 695 6715 6.390 34.31 6.319 34.22 1.12% 0.2% 695 6.712 33.912 6.650 33.390 1.07% 0.09% 695 5.61 33.917 6.644 33.900 1.07% 0.09% 595 5.61 35.43 5.10 2.79% 0.79% 595 5.62 35.303 5.448 35.10 2.9%				6085	5.603	35.466	5.580	34.998	0.41%	1.34%				
99/07/2022 6500 Head 22.5 6305 5.930 35.028 5.887 34.686 0.73% 0.99% 6500 Head 22.5 6500 Head 22.5 6500 6.117 34.777 6.052 34.434 0.65% 0.67% 6.076 34.494 0.65% 0.67% 6.076 34.494 0.65% 0.67% 6.076 34.444 0.65% 0.67% 6.059 6.117 34.726 6.076 34.494 0.65% 0.67% 0.48% 6.685 6.130 34.693 6.122 34.440 0.65% 0.67% 0.48% 6685 6.130 34.310 6.223 34.220 1.05% 0.48% 6685 6.519 34.310 6.310 34.321 6.631 32.90 1.17% 0.09% 6995 6.712 33.911 6.644 33.90 1.07% 0.09% 7000 6.723 33.912 6.650 33.390 1.07% 0.09% 7005 6.723 33.912 6.653 33.890 1.07% 0.09% 7005 6.723 33.912 6.650 33.894 1.07% 0.07% 7005 6.723 33.912 6.650 33.894 1.07% 0.				6275	5.838	35.106	5.805	34.770	0.57%	0.97%				
99/07/2022 6500 Head 22.5 6345 5.930 35.028 5.887 34.686 0.75% 0.09% 09/07/2022 6500 Head 22.5 6.645 6.090 34.757 6.02 34.518 0.65% 0.69% 0.69% 0.69% 0.66% 0.69% 0.69% 0.69% 0.66% 0.69% 0.66% 0.69% 0.66% 0.69% 0.66% 0.69% 0.67% 0.69% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.69% 0.67% 0.89% 0.67% 0.29% 0.29% 0.29% 0.29% 0.29%				6285	5.853	35.101	5.816	34.758	0.64%	0.99%				
09/07/2022 6500 Head 22.5 6475 6.074 34.777 6.041 34.530 0.65% 0.72% 6485 6.090 34.757 6.052 34.518 0.63% 0.69% 6500 6.110 34.737 6.076 34.494 0.67% 0.65% 6505 6.110 34.737 6.076 34.494 0.67% 0.65% 6675 6.339 34.455 6.273 34.290 1.05% 0.68% 6675 6.390 34.455 6.273 34.290 1.05% 0.26% 6785 6.465 34.291 6.400 34.158 1.02% 0.29% 6825 6.512 33.917 6.644 33.906 1.17% 0.04% 6995 6.712 33.912 6.656 33.890 1.07% 0.04% 7005 6.723 33.912 6.656 33.801 1.06% -0.03% 6025 5.614 35.283 5.480 35.100 2.4% <				6305	5.877	35.064	5.840	34.734	0.63%	0.95%				
09/07/2022 6500 Head 22.5 6485 6.090 34.757 6.052 34.518 0.63% 0.69% 6500 6.110 34.737 6.070 34.490 0.67% 0.67% 6505 6.117 34.726 6.076 34.490 0.67% 0.67% 6545 6.180 34.653 6.122 34.446 0.95% 0.69% 6675 6.330 34.450 6.228 34.290 1.05% 0.49% 6675 6.343 34.450 6.228 34.110 1.12% 0.29% 6715 6.390 34.311 6.400 34.118 1.02% 0.39% 6825 6.519 34.140 6.447 34.110 1.17% 0.09% 7000 6.721 33.912 6.650 33.900 1.07% 0.04% 7025 6.750 33.8161 6.680 33.894 1.01% 0.05% 6005 5.721 35.184 5.557 35.02 2.95% <				6345	5.930	35.028	5.887	34.686	0.73%	0.99%				
6500 6.110 34.737 6.070 34.500 0.66% 0.69% 6505 6.117 34.726 6.076 34.494 0.67% 0.67% 6545 6.180 34.653 6.212 34.446 0.98% 0.63% 6675 6.330 34.450 6.285 34.278 0.92% 0.89% 6685 6.343 34.450 6.285 34.278 0.92% 0.28% 6785 6.465 34.291 6.400 34.158 1.02% 0.39% 6885 6.712 33.918 6.633 33.913 1.17% 0.09% 6985 6.712 33.912 6.650 33.801 1.07% 0.09% 7005 6.723 33.912 6.656 33.801 1.07% 0.09% 7025 6.750 33.801 1.07% 0.09% 0.598 5.612 35.441 5.110 35.10 2.69% 0.67% 5905 5.612 35.269 5.510 35.010				6475	6.074	34.777	6.041	34.530	0.55%	0.72%				
09/20/2022 6500 Head 20.3 6505 6.117 34.726 6.076 34.494 0.67% 0.67% 6545 6.130 34.653 6.122 34.426 0.98% 0.63% 6675 6.339 34.455 6.273 34.220 1.05% 0.49% 6715 6.390 34.331 6.319 34.242 1.12% 0.29% 6785 6.455 34.291 6.400 34.158 1.02% 0.39% 6825 6.519 34.140 6.441 33.906 1.17% 0.09% 6985 6.712 33.918 6.633 33.900 1.07% 0.09% 7005 6.723 33.912 6.656 33.870 1.07% 0.09% 7005 6.723 33.912 6.656 33.870 1.07% 0.07% 5930 5.600 35.365 5.448 35.100 2.9% 0.7% 5930 5.622 35.303 5.544 35.100 2.9%	09/07/2022	6500 Head	22.5	6485	6.090	34.757	6.052	34.518	0.63%	0.69%				
09/20/2022 6500 Head 20.3				6500	6.110	34.737	6.070	34.500	0.66%	0.69%				
09/20/2022 6500 Head 603 34.455 6.273 34.290 1.05% 0.48% 6685 6.330 34.455 6.285 34.278 0.92% 0.80% 6715 6.390 34.331 6.319 34.242 1.72% 0.28% 6785 6.465 34.291 6.400 34.158 1.02% 0.39% 6825 6.519 34.140 6.447 34.100 1.12% 0.08% 6985 6.712 33.912 6.663 33.906 1.11% 0.03% 7000 6.721 33.912 6.656 33.800 1.07% 0.04% 7005 6.723 33.912 6.656 33.801 1.05% -0.03% 7005 6.723 33.912 6.656 33.870 1.05% -0.03% 5970 5.600 35.365 5.448 35.100 2.96% 0.57% 6005 5.721 35.363 5.448 35.100 2.96% 0.47% <td< td=""><td></td><td></td><td></td><td>6505</td><td>6.117</td><td>34.726</td><td>6.076</td><td>34.494</td><td>0.67%</td><td>0.67%</td></td<>				6505	6.117	34.726	6.076	34.494	0.67%	0.67%				
09/20/2022 6500 Head 20.3 6685 6.343 34.450 6.285 34.278 0.92% 0.50% 09/20/2022 6500 Head 20.3 66825 6.465 34.331 6.319 34.242 1.12% 0.29% 6825 6.519 34.140 6.447 34.110 1.12% 0.09% 6995 6.712 33.918 6.650 33.3906 1.07% 0.09% 7000 6.721 33.912 6.650 33.894 1.07% 0.09% 7005 6.723 33.912 6.650 33.894 1.07% 0.09% 7005 6.723 33.912 6.650 33.894 1.07% 0.09% 7025 6.750 33.861 6.680 33.870 1.07% 0.09% 5970 5.600 35.365 5.448 35.100 2.9% 0.7% 6005 5.721 35.161 2.9% 0.7% 6065 5.721 35.101 2.9% 0.43%				6545	6.180	34.663	6.122	34.446	0.95%	0.63%				
09/20/2022 6500 Head 20.3 66115 66.390 34.331 66.319 34.242 1.12% 0.28% 6785 6.465 34.291 6.400 34.158 1.02% 0.09% 6825 6.519 33.918 6.633 33.918 1.12% 0.09% 6985 6.712 33.917 6.644 33.900 1.17% 0.09% 7000 6.721 33.912 6.650 33.900 1.07% 0.09% 7005 6.750 33.861 6.680 33.870 1.07% 0.09% 7025 6.750 33.861 6.680 33.870 1.07% 0.07% 5970 5.600 35.464 35.100 2.97% 0.76% 6005 5.721 35.184 5.557 35.022 2.95% 0.43% 6025 5.733 35.102 2.96% 0.43% 6025 5.596 34.198 3.26% 0.02% 6055 6.721 35.184 5.557				6675	6.339	34.455	6.273	34.290	1.05%	0.48%				
99/20/2022 6500 Head 20.3 6500 Head 20.3 6500 Head 20.3 6500 Head 20.3 34.429 6.447 34.110 1.12% 0.03% 6995 6.712 33.918 6.633 33.918 1.07% 0.00% 6995 6.718 33.917 6.644 33.906 1.11% 0.03% 7000 6.721 33.912 6.650 33.890 1.07% 0.04% 7005 6.723 33.912 6.656 33.890 1.07% 0.03% 5935 5.561 35.447 5.411 35.143 2.77% 0.87% 6000 5.641 35.283 5.448 35.100 2.94% 0.55% 6025 5.774 35.144 5.510 35.000 2.95% 0.44% 6025 5.734 35.132 5.580 34.988 3.00% 0.38% 6475 6.243 34.439 6.041 34.734 3.27% 0.02% 6305 6.031				6685	6.343	34.450	6.285	34.278	0.92%	0.50%				
6825 6.519 34.140 6.447 34.110 1.12% 0.09% 6985 6.712 33.918 6.633 33.918 1.19% 0.00% 6995 6.712 33.917 6.644 33.906 1.11% 0.03% 7000 6.723 33.912 6.656 33.894 1.07% 0.04% 7005 6.750 33.861 6.680 33.870 1.05% -0.03% 7025 6.750 33.861 6.680 33.870 1.05% -0.03% 5935 5.622 35.303 5.464 35.110 2.89% 0.55% 6000 5.641 35.269 5.510 35.002 2.95% 0.65% 6025 5.676 35.160 5.569 35.010 2.96% 0.05% 6055 5.734 35.160 5.569 35.010 2.96% 0.07% 6055 5.734 35.160 5.478 3.28% 0.02% 6305 6.031 3.475 <td></td> <td></td> <td></td> <td>6715</td> <td>6.390</td> <td>34.331</td> <td>6.319</td> <td>34.242</td> <td>1.12%</td> <td>0.26%</td>				6715	6.390	34.331	6.319	34.242	1.12%	0.26%				
09/20/2022 6500 Head 20.3 7000 6.723 33.912 6500 Head 20.3 6500 Head 20.3 7000 6.721 35.141 7000 5.611 35.269 7000 5.611 35.269 7000 5.611 35.269 7000 5.611 35.269 7000 6.721 35.184 7000 5.721 35.184 7000 5.733 35.120 7000 5.734 35.100 7000 6.825 5.793 7000 5.60631 34.775 <tr< td=""><td rowspan="4"></td><td></td><td></td><td>6785</td><td>6.465</td><td>34.291</td><td>6.400</td><td>34.158</td><td>1.02%</td><td>0.39%</td></tr<>				6785	6.465	34.291	6.400	34.158	1.02%	0.39%				
09/20/2022 6500 Head 20.3 6500 Head 20.3 6500 Head 20.3 6500 Fead 20.3 6500 Fead 33.912 6.654 33.900 1.11% 0.03% 09/20/2022 6550 Head 20.3 6550 33.812 6.656 33.894 1.01% 0.03% 09/20/2022 6750 33.861 6.680 33.870 1.05% 0.03% 5935 5.561 35.447 5.411 35.143 2.77% 0.87% 5970 5.600 35.365 5.488 35.100 2.94% 0.52% 6000 5.641 35.283 5.480 35.100 2.94% 0.52% 6025 5.676 35.269 5.510 35.070 3.01% 0.38% 6075 5.734 35.160 5.569 34.700 3.26% 0.07% 6305 6.031 34.735 5.840 34.774 3.27% 0.00% 6435 6.243 34.423 6.052 34.518 3.33%				6825	6.519	34.140	6.447	34.110	1.12%	0.09%				
09/20/2022 6500 Head 20.3 7000 G 6.255 7000 G 6.265 7000 G 6.265 7000 G				6985	6.712	33.918	6.633	33.918	1.19%	0.00%				
09/20/2022 6500 Head 20.3 7005 6.625 7005 6.721 7005 6.721 7005 5.734 7005 5.734 7005 6.001 7005 6.021 7005 6.021 7005 6.021 7005 6.243 7005 6.243 <td< td=""><td></td><td></td><td>6995</td><td>6.718</td><td>33.917</td><td>6.644</td><td>33.906</td><td>1.11%</td><td>0.03%</td></td<>				6995	6.718	33.917	6.644	33.906	1.11%	0.03%				
09/20/2022 6500 Head 20.3 6.750 33.861 6.680 33.870 1.05% -0.03% 09/20/2022 6500 Head 20.3 5.561 35.447 5.411 35.143 2.77% 0.87% 5970 5.600 35.365 5.448 35.120 2.79% 0.70% 5985 5.622 35.303 5.464 35.110 2.89% 0.65% 6000 5.641 35.283 5.480 35.100 2.94% 0.55% 6005 5.721 35.184 5.557 35.022 2.95% 0.46% 6075 5.734 35.160 5.569 35.010 2.96% 0.07% 6085 5.753 35.132 5.580 34.770 3.26% 0.02% 6305 6.031 34.735 5.805 34.770 3.26% 0.02% 6475 6.243 34.481 5.887 34.686 3.33% -0.03% 6500 Head 20.3 6485 6.255 34.423<				7000	6.721	33.912	6.650	33.900	1.07%	0.04%				
09/20/2022 6500 Head 20.3 709/20/2022 6500 Head 709/20/2022 700 Head 709/20/2022 700 Head 709/20/2022 700 Head 700 700 Head <td></td> <td></td> <td></td> <td>7005</td> <td>6.723</td> <td>33.912</td> <td>6.656</td> <td>33.894</td> <td>1.01%</td> <td>0.05%</td>				7005	6.723	33.912	6.656	33.894	1.01%	0.05%				
09/20/2022 6500 Head 20.3 709/20/2022 6500 Head 20.3 35.000 20.3 35.000 20.3 35.000 20.3 5500 Head 20.4 20.				7025	6.750	33.861	6.680	33.870	1.05%	-0.03%				
6500 Head 20.3 5.622 35.303 5.464 35.110 2.89% 0.55% 6000 5.641 35.283 5.480 35.100 2.94% 0.52% 6025 5.676 35.269 5.510 35.070 3.01% 0.57% 6065 5.721 35.184 5.557 35.022 2.95% 0.46% 6075 5.734 35.160 5.569 35.010 2.96% 0.43% 6085 5.753 35.132 5.580 34.998 3.10% 0.38% 6275 5.994 34.775 5.805 34.770 3.26% 0.02% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.28% 6475 6.243 34.423 6.052 34.518 3.35% -0.28% 6500 6.265 34.385 6.070 34.464 3.48% -0.35% 65				5935	5.561	35.447	5.411	35.143	2.77%	0.87%				
09/20/2022 6500 Head 20.3 6000 5.641 35.283 5.480 35.100 2.94% 0.52% 6025 5.676 35.269 5.510 35.070 3.01% 0.57% 6065 5.721 35.184 5.557 35.022 2.95% 0.46% 6075 5.734 35.160 5.569 35.010 2.96% 0.43% 6085 5.753 35.132 5.800 34.998 3.10% 0.38% 6275 5.994 34.775 5.805 34.70 3.26% 0.02% 6285 6.007 34.764 5.816 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.02% 6500 Head 20.3 6485 6.255 34.423 6.052 34.518 3.27% 0.02% 6505 6.243 34.439 6.041 34.530 3.24% -0.28% 6505 6.272 34.377 6.070				5970	5.600	35.365	5.448	35.120	2.79%	0.70%				
6025 5.676 35.269 5.510 35.070 3.01% 0.57% 6065 5.721 35.184 5.557 35.022 2.95% 0.46% 6075 5.734 35.160 5.569 35.010 2.96% 0.43% 6085 5.753 35.132 5.580 34.998 3.10% 0.38% 6025 6.075 5.994 34.775 5.805 34.770 3.26% 0.01% 6285 6.007 34.764 5.816 34.734 3.27% 0.02% 6305 6.031 34.735 5.840 34.734 3.27% 0.02% 6345 6.083 34.681 5.887 34.686 3.33% -0.02% 6475 6.243 34.439 6.041 34.530 3.34% -0.28% 6505 6.255 34.423 6.052 34.518 3.35% -0.28% 6505 6.272 34.377 6.076 34.494 3.23% -0.38% 6505<				5985	5.622	35.303	5.464	35.110	2.89%	0.55%				
09/20/2022 6500 Head 20.3 6500 Fead 6065 5.721 35.184 5.557 35.022 2.95% 0.46% 09/20/2022 6500 Head 6075 5.734 35.160 5.569 35.010 2.96% 0.43% 6085 5.753 35.132 5.580 34.998 3.10% 0.38% 6275 5.994 34.775 5.805 34.770 3.26% 0.02% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.28% 6475 6.243 34.439 6.041 34.530 3.34% -0.28% 6500 6.265 34.385 6.070 34.686 3.33% -0.28% 6505 6.272 34.377 6.076 34.494 3.23% -0.38% 6575 6.486 34.062 6.273 34.290 3.40% -0.88% 6675 6.486 34.0				6000	5.641	35.283	5.480	35.100	2.94%	0.52%				
09/20/2022 6500 Head 20.3 6075 5.734 35.160 5.569 35.010 2.96% 0.43% 6085 5.753 35.132 5.580 34.998 3.10% 0.38% 6275 5.994 34.775 5.805 34.700 3.26% 0.01% 6285 6.007 34.764 5.816 34.734 3.27% 0.00% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.429 6.041 34.530 3.34% -0.26% 6500 6.255 34.423 6.052 34.518 3.35% -0.28% 6505 6.272 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6515 6.335 34.324 6.122 34.446				6025	5.676	35.269	5.510	35.070	3.01%	0.57%				
09/20/2022 6500 Head 20.3 6085 5.753 34.775 5.805 34.770 3.26% 0.01% 6285 6.007 34.764 5.816 34.758 3.28% 0.02% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.439 6.041 34.530 3.34% -0.26% 6500 6.265 34.423 6.052 34.518 3.35% -0.28% 6505 6.272 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.68% 6685 6.508 34.011 6.285 34.29 3.40% -0.82% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.820 33.512 6.644 33.900 3.55%				6065	5.721	35.184	5.557	35.022	2.95%	0.46%				
09/20/2022 6500 Head 20.3 6275 5.994 34.775 5.805 34.770 3.26% 0.01% 09/20/2022 6500 Head 20.3 6485 6.007 34.764 5.816 34.734 3.27% 0.00% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.439 6.041 34.530 3.34% -0.26% 6475 6.243 34.439 6.041 34.530 3.21% -0.33% 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6555 6.426 34.022 6.273 34.290 3.40% -0.85% 6675 6.486 34.061 6.285 34.278 3.55% -0.78% 6715 6.560 33.961<				6075	5.734	35.160	5.569	35.010	2.96%	0.43%				
09/20/2022 6500 Head 20.3 6285 6.007 34.764 5.816 34.758 3.28% 0.02% 6305 6.031 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.439 6.041 34.530 3.34% -0.26% 6485 6.255 34.423 6.052 34.518 3.35% -0.28% 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.68% 6615 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.826 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.900 3.65% -1.16% 7000 6.893 33.444				6085	5.753	35.132	5.580	34.998	3.10%	0.38%				
09/20/2022 6500 Head 20.3 6305 6.083 34.735 5.840 34.734 3.27% 0.00% 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.439 6.041 34.530 3.34% -0.26% 6485 6.255 34.423 6.052 34.518 3.35% -0.28% 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.68% 6675 6.486 34.062 6.273 34.290 3.40% -0.68% 6675 6.486 34.062 6.273 34.290 3.40% -0.68% 6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.444 6.65				6275	5.994	34.775	5.805	34.770	3.26%	0.01%				
09/20/2022 6500 Head 20.3 6345 6.083 34.681 5.887 34.686 3.33% -0.01% 6475 6.243 34.439 6.041 34.530 3.34% -0.26% 6485 6.255 34.423 6.052 34.518 3.35% -0.28% 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6505 6.272 34.377 6.076 34.494 3.23% -0.35% 6505 6.272 34.377 6.076 34.494 3.23% -0.35% 6505 6.272 34.377 6.076 34.494 3.23% -0.35% 6575 6.486 34.062 6.273 34.290 3.40% -0.66% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6715 6.560 33.961 6.319 34.242 3.81%				6285	6.007	34.764	5.816	34.758	3.28%	0.02%				
6475 6.243 34.439 6.041 34.530 3.34% -0.26% 09/20/2022 6500 Head 20.3 6485 6.255 34.423 6.052 34.518 3.35% -0.26% 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.224 3.81% -0.82% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6995 6.880 33.512 6.644 33.906 3.55%				6305	6.031	34.735	5.840	34.734	3.27%	0.00%				
09/20/2022 6500 Head 20.3 6485 6.255 34.423 6.052 34.518 3.35% -0.28% 6500 Head 6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.224 3.81% -0.82% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.444 6.656 33.894<				6345	6.083	34.681	5.887	34.686	3.33%	-0.01%				
6500 6.265 34.385 6.070 34.500 3.21% -0.33% 6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.224 3.81% -0.82% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.444 6.656 33.894 3.70% -1.33%				6475	6.243	34.439	6.041	34.530	3.34%	-0.26%				
6505 6.272 34.377 6.076 34.494 3.23% -0.34% 6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%	09/20/2022	6500 Head	20.3	6485	6.255	34.423	6.052	34.518	3.35%	-0.28%				
6545 6.335 34.324 6.122 34.446 3.48% -0.35% 6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%				6500	6.265	34.385	6.070	34.500	3.21%	-0.33%				
6675 6.486 34.062 6.273 34.290 3.40% -0.66% 6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%				6505	6.272	34.377	6.076	34.494	3.23%	-0.34%				
6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%				6545	6.335	34.324	6.122	34.446	3.48%	-0.35%				
6685 6.508 34.011 6.285 34.278 3.55% -0.78% 6715 6.560 33.961 6.319 34.242 3.81% -0.82% 6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%										-0.66%				
67156.56033.9616.31934.2423.81%-0.82%67856.62133.8556.40034.1583.45%-0.89%68256.69533.7706.44734.1103.85%-1.00%69856.85633.5706.63333.9183.36%-1.03%69956.88033.5126.64433.9063.55%-1.16%70006.89333.4786.65033.9003.65%-1.24%70056.90233.4446.65633.8943.70%-1.33%										-0.78%				
6785 6.621 33.855 6.400 34.158 3.45% -0.89% 6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%										-0.82%				
6825 6.695 33.770 6.447 34.110 3.85% -1.00% 6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%										-0.89%				
6985 6.856 33.570 6.633 33.918 3.36% -1.03% 6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%										-1.00%				
6995 6.880 33.512 6.644 33.906 3.55% -1.16% 7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%										-1.03%				
7000 6.893 33.478 6.650 33.900 3.65% -1.24% 7005 6.902 33.444 6.656 33.894 3.70% -1.33%														
7005 6.902 33.444 6.656 33.894 3.70% -1.33%														
				7005	6.928	33.396	6.680	33.870	3.70%	-1.40%				

Table 8-2Measured Tissue Properties (cont.)

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in SAR System Validation Appendix.

Table 8-3 System Verification Results

	System vernication TARGET & MESSURED																			
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)	Measured SAR10g (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR ^{10g} (W/kg)	Deviation _{10g} (%)	Measured 4cm ² APD (W/m ²)	1W Target 4cm ² APD (W/m ²)	1 W Normalized 4cm ² APD (W/m ²)	Deviation 4cm ² APD (%)
AM2	6500	Head	07/07/2022	21.9	19.9	0.025	1019	7421	7.320	285.000	292.800	2.74%	1.350	52.600	54.000	2.66%	33.0000	1300.0000	1320.000	1.54%
AM2	6500	Head	07/15/2022	21.9	20.6	0.025	1019	7421	7.270	285.000	290.800	2.04%	1.330	52.600	53.200	1.14%	32.4000	1300.0000	1296.000	-0.31%
AM7	6500	Head	09/07/2022	20.0	20.9	0.025	1019	7416	7.430	285.000	297.200	4.28%	1.380	52.600	55.200	4.94%	33.6000	1300.0000	1344.000	3.38%
AM2	6500	Head	09/20/2022	21.5	20.1	0.025	1019	7421	7.650	285.000	306.000	7.37%	1.390	52.600	55.600	5.70%	34.0000	1300.0000	1360.000	4.62%

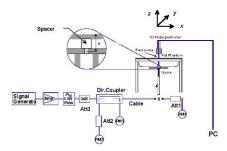


Figure 8-1 System Verification Setup Diagram



Figure 8-2 System Verification Setup Photo

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8.2 Power Density Test System Verification

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

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

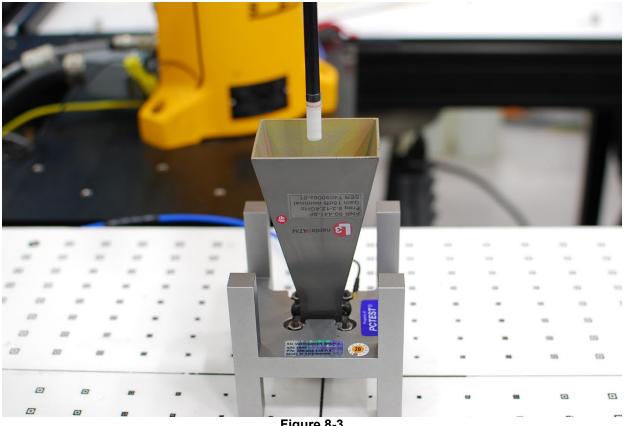


Figure 8-3 System Verification Setup Photo

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Table 8-4
10 GHz Verifications

	System Verification														
System	Frequency	Date	Source	Probe	Prad	Normal psPD (W	/m² over 4 cm²)	Deviation (dB)	Total psPD (W	//m² over 4 cm²)	Deviation (dB)				
eystem	(GHz)	2410	S/N	S/N	(mW)	Measured	Target	2001aa.on (a2)	Measured	Target	20010000 (02)				
AM5	10	07/07/2022	1006	9416	86.1	53.80	50.80	0.25	54.00	50.80	0.27				
AM5	10	08/26/2022	1006	9364	86.1	49.60	50.80	-0.10	49.90	50.80	-0.08				

Note: A 10 mm distance spacing was used from the reference horn antenna aperture to the probe element.

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9 DATA SUMMARY

9.1 SAR and Absorbed Power Density Results

	6 GHZ WLAN BOUY SISO SAR – Tablet																				
									MEASU	REMENT	RESULTS										
FREQU	UENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing (mm)	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g)	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Reported SAR (10g)	Piot#
MHz	Ch.								-			,			(W/kg)	(W/kg)	(Power)	Cycle)	(W/kg)	(W/kg)	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.10	0	5B	V2	1YH0QD	68.1	Back	97.95	0.078	0.027	1.186	1.021	0.094	0.033	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	0	5B	V2	1YH0QD	68.1	Тор	97.95	0.000	0.000	1.186	1.021	0.000	0.000	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	-0.05	0	5B	V2	1YH0QD	68.1	Bottom	97.95	0.006	0.000	1.186	1.021	0.007	0.000	
6025.00	15	802.11ax	OFDM	160	12.50	10.91	-0.17	0	5B	V2	1YH0QD	68.1	Right	97.95	0.242	0.084	1.442	1.021	0.356	0.124	
6185.00	47	802.11ax	OFDM	160	12.25	10.67	0.05	0	5B	V2	1YH0QD	68.1	Right	97.95	0.216	0.077	1.439	1.021	0.317	0.113	
6505.00	111	802.11ax	OFDM	160	13.00	12.04	0.18	0	5B	V2	1YH0QD	68.1	Right	97.95	0.392	0.135	1.247	1.021	0.499	0.172	
6825.00	175	802.11ax	OFDM	160	13.25	12.26	0.06	0	5B	V2	1YH0QD	68.1	Right	97.95	0.471	0.164	1.256	1.021	0.604	0.210	
6825.00	175	802.11ax	OFDM	160	13.25	12.25	0.10	0	5B	V1	0Y2WCW	68.1	Right	97.95	0.418	0.141	1.259	1.021	0.537	0.181	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	0	5B	V2	1YH0QD	68.1	Right	97.95	0.468	0.153	1.186	1.021	0.567	0.185	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.03	0	5B	V2	1YH0QD	68.1	Left	97.95	0.000	0.000	1.186	1.021	0.000	0.000	
6025.00	15	802.11ax	OFDM	160	9.00	7.16	0.15	0	4A	V1	FYYC62	68.1	Back	97.95	0.754	0.164	1.528	1.021	1.176	0.256	
6185.00	47	802.11ax	OFDM	160	8.25	7.80	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	1.050	0.222	1.109	1.021	1.189	0.251	A1
6185.00	47	802.11ax	OFDM	160	8.25	7.56	0.04	0	4A	V2	2M7YLH	68.1	Back	97.95	0.993	0.208	1.172	1.021	1.188	0.249	
6185.00	47	802.11ax	OFDM	160	8.25	7.80	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	0.994	0.208	1.109	1.021	1.125	0.236	
6505.00	111	802.11ax	OFDM	160	9.75	8.94	-0.06	0	4A	V1	FYYC62	68.1	Back	97.95	0.748	0.150	1.205	1.021	0.920	0.185	
6825.00	175	802.11ax	OFDM	160	9.75	9.19	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	0.806	0.159	1.138	1.021	0.936	0.185	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.07	0	4A	V1	FYYC62	68.1	Back	97.95	1.010	0.197	1.127	1.021	1.162	0.227	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.04	0	4A	V1	FYYC62	68.1	Тор	97.95	0.100	0.022	1.127	1.021	0.115	0.025	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.05	0	4A	V1	FYYC62	68.1	Bottom	97.95	0.003	0.001	1.127	1.021	0.003	0.001	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.04	0	4A	V1	FYYC62	68.1	Right	97.95	0.004	0.001	1.127	1.021	0.005	0.001	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.17	0 4A V1 FYYC62 68.1 Left 97.95 0.117 0.030 1.127 1.021 0.135 0.035													
		ANS		5.1 1992 - S. batial Peak	AFETY LIMIT			Body 1.6 W/kg (mW/g)													
	Uncontrolled Exposure/General Population													averaged ov	· •						

Table 9-1
6 GHz WLAN Body SISO SAR – Tablet

Note: Blue entry represents variability measurement

	Table 9-2	
6 GHz WLAN Body	/ SISO Reduced	SAR – Tablet

									MEASU	JREMENT	RESULTS	i									
FREQ	JENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing (mm)	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle	SAR (1g)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Reported SAR (10g)	Plot#
MHz	Ch.								-						(W/kg)	(W/kg)	(Power)	Cycle)	(W/kg)	(W/kg)	
6825.00	175	802.11ax	OFDM	160	11.25	10.27	0.10	0	5B	V2	1YH0QD	68.1	Right	97.95	0.270	0.094	1.253	1.021	0.345	0.120	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	-0.02	0	4A	V1	FYYC62	68.1	Back	97.95	0.189	0.034	1.205	1.021	0.233	0.042	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	0.00	0	4A	V1	FYYC62	68.1	Тор	97.95	0.023	0.006	1.205	1.021	0.028	0.007	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	0.03	0	4A	V1	FYYC62	68.1	Left	97.95	0.022	0.005	1.205	1.021	0.027	0.006	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak							Body 1.6 W/kg (mW/g)													
	Uncontrolled Exposure/General Population						averaged over 1 gram														

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								MEASU	JREMENT	RESULTS	5								
FREQU	JENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power	Power Drift		Antenna	Variant	Device Serial	Data Rate	Side	Duty Cycle	Measured APD	Scaling Factor	Scaling	Reported APD	Plot #
MHz	Ch.	Mode	Service	[MHz]	Power [dBm]	[dBm]	[dB]	Spacing (mm)	Config.	variant	Number	(Mbps)	Side	(%)	W/m ² (4cm ²)	(Power)	Factor (Duty Cycle)	W/m ² (4cm ²)	Plot #
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.10	0	5B	V2	1YH0QD	68.1	Back	97.95	0.603	1.186	1.021	0.730	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	0	5B	V2	1YH0QD	68.1	Тор	97.95	0.004	1.186	1.021	0.005	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	-0.05	0	5B	V2	1YH0QD	68.1	Bottom	97.95	0.023	1.186	1.021	0.028	
6025.00	15	802.11ax	OFDM	160	12.50	10.91	-0.17	0	5B	V2	1YH0QD	68.1	Right	97.95	1.890	1.442	1.021	2.783	
6185.00	47	802.11ax	OFDM	160	12.25	10.67	0.05	0	5B	V2	1YH0QD	68.1	Right	97.95	1.730	1.439	1.021	2.542	
6505.00	111	802.11ax	OFDM	160	13.00	12.04	0.18	0	5B	V2	1YH0QD	68.1	Right	97.95	3.050	1.247	1.021	3.883	
6825.00	175	802.11ax	OFDM	160	13.25	12.26	0.06	0	5B	V2	1YH0QD	68.1	Right	97.95	3.670	1.256	1.021	4.706	
6825.00	175	802.11ax	OFDM	160	13.25	12.25	0.10	0	5B	V1	0Y2WCW	68.1	Right	97.95	3.190	1.259	1.021	4.101	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	0	5B	V2	1YH0QD	68.1	Right	97.95	3.500	1.186	1.021	4.238	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.03	0	5B	V2	1YH0QD	68.1	Left	97.95	0.000	1.186	1.021	0.000	
6025.00	15	802.11ax	OFDM	160	9.00	7.16	0.15	0	4A	V1	FYYC62	68.1	Back	97.95	3.930	1.528	1.021	6.131	
6185.00	47	802.11ax	OFDM	160	8.25	7.80	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	5.310	1.109	1.021	6.012	A1
6185.00	47	802.11ax	OFDM	160	8.25	7.56	0.04	0	4A	V2	2M7YLH	68.1	Back	97.95	4.990	1.172	1.021	5.971	
6185.00	47	802.11ax	OFDM	160	8.25	7.80	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	4.990	1.109	1.021	5.650	
6505.00	111	802.11ax	OFDM	160	9.75	8.94	-0.06	0	4A	V1	FYYC62	68.1	Back	97.95	3.620	1.205	1.021	4.454	
6825.00	175	802.11ax	OFDM	160	9.75	9.19	-0.03	0	4A	V1	FYYC62	68.1	Back	97.95	3.850	1.138	1.021	4.473	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.07	0	4A	V1	FYYC62	68.1	Back	97.95	4.760	1.127	1.021	5.477	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.04	0	4A	V1	FYYC62	68.1	Тор	97.95	0.540	1.127	1.021	0.621	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.05	0	4A	V1	FYYC62	68.1	Bottom	97.95	0.034	1.127	1.021	0.039	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.04	0	4A	V1	FYYC62	68.1	Right	97.95	0.030	1.127	1.021	0.035	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.17	0	4A	V1	FYYC62	68.1	Left	97.95	0.717	1.127	1.021	0.825	
		•		•	N.L. 4												•	<u> </u>	

 Table 9-3

 6 GHz WLAN Body SISO Absorbed Power Density - Tablet

Note: Blue entry represents variability measurement

 Table 9-4

 6 GHz WLAN Body SISO Reduced Absorbed Power Density – Tablet

	MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth	Maximum Allowed Power (Ant 1)	Conducted Power		Spacing (mm)	Antenna	Variant	Device Serial	Data Rate	Side	Duty Cycle	Measured APD	Scaling Factor	Scaling Factor (Duty	Reported APD	Plot #
MHz	Ch.	mode	Service	[MHz]	[dBm]	(Ant 1) [dBm]	[dB]	Spacing (mm)	Config.	Vanant	Number	(Mbps)		(%)	W/m ² (4cm ²)	(Power)		W/m ² (4cm ²)	PIOC #
6825.00	175	802.11ax	OFDM	160	11.25	10.27	0.10	0	5B	V2	1YH0QD	68.1	Right	97.95	2.130	1.253	1.021	2.725	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	-0.02	0	4A	V1	FYYC62	68.1	Back	97.95	0.831	1.205	1.021	1.022	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	0.00	0	4A	V1	FYYC62	68.1	Тор	97.95	0.146	1.205	1.021	0.180	
6985.00	207	802.11ax	OFDM	160	5.00	4.19	0.03	0	4A	V1	FYYC62	68.1	Left	97.95	0.111	1.205	1.021	0.137	

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SAR and Absorbed Power Density General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR and APD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01.
- Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- 7. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 10 for variability analysis.

WLAN Notes:

- 1. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
- 2. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
- 3. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

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9.2 Power Density Results

	0 0112 W											AN SISO Power Delisity - Tablet												
												MEASURE	MENT RESUL	TS										
Frequency (MHz)	Channel	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m ⁱ)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ⁱ)	Scaled Total psPD (W/m ¹)	Plot #
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.04	2	5B	V2	1YH0QD	68.1	Back	97.95	0.25		1.554	1.186	1.021	0.254	0.478	0.302	0.568	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	2	5B	V2	1YH0QD	68.1	Тор	97.95	0.25		1.554	1.186	1.021	0.168	0.316	0.175	0.329	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.03	2	5B	V2	1YH0QD	68.1	Bottom	97.95	0.25		1.554	1.186	1.021	0.546	1.027	0.567	1.067	
6025.00	15	802.11ax	OFDM	160	12.50	10.91	-0.07	2	5B	V2	1YH0QD	68.1	Right	97.95	0.25		1.554	1.442	1.021	1.180	2.700	1.840	4.210	
6185.00	47	802.11ax	OFDM	160	12.25	10.67	0.04	2	5B	V2	1YH0QD	68.1	Right	97.95	0.25		1.554	1.439	1.021	1.830	4.178	2.130	4.863	
6505.00	111	802.11ax	OFDM	160	13.00	12.04	0.16	2	5B	V2	1YH0QD	68.1	Right	97.95	0.25		1.554	1.247	1.021	1.830	3.621	2.140	4.234	
6825.00	175	802.11ax	OFDM	160	13.25	12.26	0.15	2	5B	V2	1YH0QD	68.1	Right	97.95	0.25		1.554	1.256	1.021	1.680	3.348	1.980	3.946	
6985.00	207	802.11ax	OFDM	160	13.25	12.51	-0.04	2	5B	V2	1YH0QD	68.1	Right	97.95	0.25		1.554	1.186	1.021	2.820	5.307	3.550	6.680	A2
6985.00	207	802.11ax	OFDM	160	13.25	12.51	0.00	2	5B	V2	1YH0QD	68.1	Left	97.95	0.25		1.554	1.186	1.021	0.218	0.410	0.236	0.444	
6025.00	15	802.11ax	OFDM	160	9.00	7.16	0.08	2	4A	V1	FYYC62	68.1	Back	97.95	0.25		1.554	1.528	1.021	1.830	4.437	2.210	5.358	
6185.00	47	802.11ax	OFDM	160	8.25	7.80	0.09	2	4A	V1	FYYC62	68.1	Back	97.95	0.25		1.554	1.109	1.021	1.390	2.446	1.620	2.851	
6505.00	111	802.11ax	OFDM	160	9.75	8.94	0.07	2	4A	V1	FYYC62	68.1	Back	97.95	0.25		1.554	1.205	1.021	2.050	3.919	2.590	4.952	
6825.00	175	802.11ax	OFDM	160	9.75	9.19	-0.09	2	4A	V1	FYYC62	68.1	Back	97.95	0.25		1.554	1.138	1.021	2.590	4.676	2.830	5.110	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.15	2	4A	V1	FYYC62	68.1	Back	97.95	0.25		1.554	1.127	1.021	1.500	2.682	1.800	3.219	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.03	2	4A	V1	FYYC62	68.1	Тор	97.95	0.25		1.554	1.127	1.021	0.460	0.823	0.534	0.955	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.03	2	4A	V1	FYYC62	68.1	Right	97.95	0.25		1.554	1.127	1.021	0.246	0.440	0.269	0.481	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	0.15	2	4A	V1	FYYC62	68.1	Left	97.95	0.25	3.010	1.554	1.127	1.021	0.622	1.112	0.668	1.194	
6985.00	207	802.11ax	OFDM	160	10.50	9.98	-0.18	8.58	4A	V1	FYYC62	68.1	Left	97.95	0.25	1.650	1.554	1.127	1.021	0.209	0.374	0.230	0.411	
47 OFR §1.1310 - SAFETY LMNT Bpath Average Uncontroted Expensive / Garana Population													Power Density 10 W/m ² raged over 4 cm ²											

 Table 9-5

 6 GHz WLAN SISO Power Density - Tablet

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Power Density General Notes

- 1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
- 3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- 4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- 5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
- 6. Per equipment manufacturer guidance, power density was measured at d=2mm and d=λ/5mm using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is ≥ -1dB, the grid step was sufficient for determining compliance at d=2mm.
- 7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01.
- 8. PTP-PR algorithm was used during psPD measurement and calculations.

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10 SAR MEASUREMENT VARIABILITY

10.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent media. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is \geq 0.80 W/kg, the measurement was repeated once.
- A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

							VARIABI		SULTS							
FREQU	JENCY	Mode	Service	Bandwidth [MHz]	Data Rate (Mbps)	Spacing [mm]	Antenna Config	Side	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio	
MHz	Ch.								(W/kg)	(W/kg)		(W/kg)		(W/kg)		
6185.00	47	802.11ax	OFDM	160	68.1	0	4A	Back	1.050	0.994	1.06	N/A	N/A	N/A	N/A	
	ANSI / IE	EE C95.1 1	992 - SAF	ETY LIMIT		Body										
	Spatial Peak						1.6 W/kg (mW/g)									
U	Uncontrolled Exposure/General Population									averaged c	ver 1 gram	ı				

Table 10-1 Body SAR Measurement Variability Results - Tablet

10.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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11 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL25-1	Conducted Cable Set (25GHz)	12/19/2021	Annual	12/19/2022	WL25-1
Agilent	N9038A	MXE EMI Receiver	N/A	N/A	N/A	MY51210133
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	N/A	N/A	N/A	103200
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	N/A	N/A	N/A	A051107
Emco	3115	Horn Antenna (1-18GHz)	N/A	N/A	N/A	9704-5182
Amplifier Research	15S1G6	Amplifier	СВТ	N/A	СВТ	433975
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	7/21/2021	Annual	7/21/2022	MY49430494
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	8/18/2022	Annual	8/18/2023	MY49430494
SPEAG	EUmmWV3	EUmmWV3 Probe	6/16/2022	Annual	6/16/2023	9364
SPEAG	EUmmWV3	EUmmWV3 Probe	12/13/2021	Annual	12/13/2022	9416
SPEAG	SM 003 100 AA	10 GHz System Verification Antenna	10/27/2021	Annual	10/27/2022	1006
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/20/2021	Annual	10/20/2022	1333
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7421
SPEAG	EX3DV4	SAR Probe	5/18/2022	Annual	5/18/2023	7416
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/22/2022	Annual	3/22/2023	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/16/2022	Annual	5/16/2023	701
SPEAG	D6.5GHzV2	6.5GHz SAR Dipole	1/14/2022	Annual	1/14/2023	1019
Control Company	4352	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774678
Control Company	4040	Therm./Clock/Humidity Monitor	3/12/2021	Biennial	3/12/2023	210202100
Agilent	SMF100A	Signal Generator	3/28/2022	Biennial	3/28/2024	101590
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/9/2021	Annual	11/9/2022	1277
Mitutoyo	500-196-30	CD-6"ASX 6Inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Anritsu	MS2038C	20 GHz Vector Network Analyzer	2/18/2022	Annual	2/18/2023	1214109
MCL	BW-N6W5+	6dB Attenuator	СВТ	N/A	СВТ	1139
Narda	BW-S3W2	Attenuator (3dB)	СВТ	N/A	СВТ	120
MiniCircuits	VLF-6000+	Low Pass Filter	СВТ	N/A	СВТ	N/A
MiniCircuits	ZUDC10-83-S+	Directional Coupler	9/15/2021	Annual	9/15/2022	2111
Pasternack	PE5011-1	Torque Wrench	12/21/2021	Biennial	12/21/2023	82475
Anritsu	MA2411B	Pulse Power Sensor	9/21/2021	Annual	9/21/2022	1315051
Anritsu	MA2411B	Pulse Power Sensor	9/21/2021	Annual	9/21/2022	1339008
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1520

Note:

- 1. Each equipment item was used solely within its respective calibration period.
- 2. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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12 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements:

					6				
a	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE 1528	Tol.	Prob.		ci	ci	1gm	10gms	
Uncertainty Component	Sec.	(± %)	Dist.	Div.	1gm	10 gms	ui	ui	vi
							(± %)	(± %)	
Measurement System									
Probe Calibration	E.2.1	9.3	Ν	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	Ν	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	8
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	~
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	8
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	~
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	~
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				13.8	13.6	191
Expanded Uncertainty			k=2				27.6	27.1	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for Power Density Measurements:

a	b	с	d	е	f =	g
					c x f/e	
	Unc.	Prob.			ui	
Uncertainty Component	$(\pm dB)$	Dist.	Div.	c _i	(± dB)	v _i
Measurement System	I	<u> </u>				
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	8
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	8
Sensor MechanicalOffset	0.00	R	1.73	1	0.00	8
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	0.00	R	1.73	1	0.00	8
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	8
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	8
DUT alignment	0.00	R	1.73	1	0.00	8
RF Ambient Conditions	0.04	R	1.73	1	0.02	8
Ambient Reflections	0.04	R	1.73	1	0.02	8
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)		RSS	•		1.34	8
Expanded Uncertainty		k=2			2.68	
(95% CONFIDENCE LEVEL)						

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14 CONCLUSION

14.1 Measurement Conclusion

The SAR and power density measurements indicate that the DUT complies with the RF radiation exposure limits of the FCC, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the RF Exposure and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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