FCC 47 CFR § 2.1093
IEC/IEEE Std 62209-1528 : 2020
Std IEC 62232 :2022

RF EVALUATION REPORT (Above 6GHz)

FOR

GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT

MODEL NUMBER: SM-S921U, SM-S921U1

FCC ID: A3LSMS921U

REPORT NUMBER: 4790976523-S2V1

ISSUE DATE: 10/27/2023

Prepared for
SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Prepared by

UL Korea, Ltd.

26th floor, 152, Teheran-ro, Gangnam-gu Seoul, 06236, Korea

Suwon Test Site: UL Korea, Ltd. Suwon Laboratory
218 Maeyeong-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16675, Korea
TEL: (031) 337-9902
FAX: (031) 213-5433

Testing Laboratory

TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	10/27/2023	Initial Issue	--

Table of Contents

1. Attestation of Test Results

Applicant Name		SAMSUNG ELECTRONICS CO.,LTD.				
FCC ID		A3LSMS921U				
Model Number		SM-S921U				
Applicable Standards		FCC 47 CFR § 2.1093 IEC/IEEE Std 62209-1528 : 2020 Std IEC 62232 :2022 Published RF exposure KDB procedures				
Exposure Category		SAR Limits (W/Kg)		Power Density Limits (mW/cm^2 over $4cm^2$)		
		Peak spatial-average (1g of tissue)	Product Specific 10g (10g of tissue)	APD (Absorbed Power Density)	IPD (Incident Power Density)	
General population / Uncontrolled exposure		1.6	4.0	N/A	1.0	
RF Exposure Conditions		Equipment Class				
		The Highest Reported SAR (W/kg)		APD (mW/cm^2)	IPD (mW/cm^2)	
		6CD		6CD	6CD	
Phablet-Head		0.30		0.14	0.89	
Phablet-Body-worn & Hotspot		0.08		0.05		
Phablet-Product Specific 10g		0.51		0.96		
Simultaneous TX of Phablet	Head	1.58				
	Body-worn & Hotspot	1.57				
	Product Specific 10g	3.10				
Date Tested		10/22/2023 to 10/25/2023				
Test Results		Pass				

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released By:	Prepared By:
	
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory	Seungyeon Kim Laboratory Engineer UL Korea, Ltd. Suwon Laboratory

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE Std 1528-2013, IEC TR 63170-2018, IEC 62479:2010, IEC/IEEE 63195-1:2022 the following FCC Published RF exposure KDB procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 941225 D07 UMPC Mini Tablet v01r02

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

- TCB workshop April, 2021; RF Exposure Policies (U-NII 6-7 GHz Interim Procedures)
- TCB workshop Oct, 2022; Mobile and Portable Device RF Exposure Policies and Procedures(IPD and SAR evaluation of f-above-6 GHz portable devices)
- SPEAG, 5G Module Application Note : 5G Compliance Testing
- SPEAG, DASY8 Module mmWave Manual, April 2023
- SPEAG DASY6 Application Note : Interim Procedures (Version 9.0) for Devices Operating at 6 – 10 GHz

3. Facilities and Accreditation

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

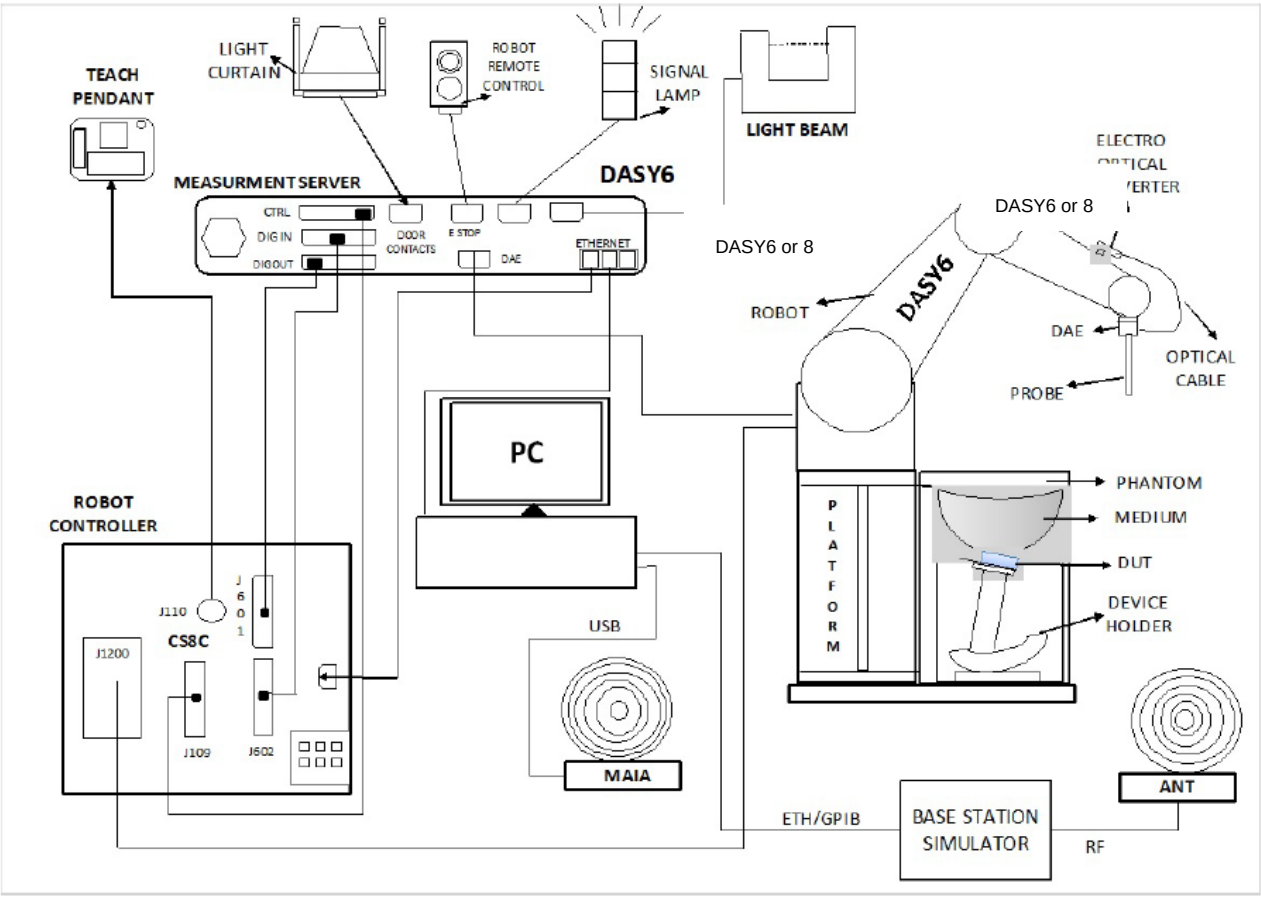
Suwon
SAR 8 Room
SAR 9 Room

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.
The full scope of accreditation can be viewed at https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf.

4. SAR and Power Density Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.1.1. SAR Scan Procedures

Step 1: Power Reference Measurement
The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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

Area Scan Parameters extracted from IEC/IEEE Standard 62209-1528.

Parameter	DUT transmit frequency being tested	
	$f \leq 3$ GHz	3 GHz < $f \leq 10$ GHz
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface (z_{M1} in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0{,}5$ [a]
Maximum spacing between adjacent measured points in mm (see O.8.3.1)[b]	20, or half of the corresponding zoom scan length, whichever is smaller	$60/f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)[c]	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°

[a] δ is the penetration depth for a plane-wave incident normally on a planar half-space.

[b] See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements.

[c] The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.

Step 3: Zoom Scan

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

Zoom Scan Parameters extracted from IEC/IEEE Standard 62209-1528.

Parameter	DUT transmit frequency being tested	
	$f \leq 3$ GHz	3 GHz $< f \leq 10$ GHz
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 20 and Table 3, in mm)	5	$\delta \ln(2)/2$ [a]
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x- and y-directions (Δx and Δy, in mm)	8	$24/f$ [b]
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	5	$10/(f-1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 20)	1,5	1,5
Minimum edge length of the zoom scan volume in the x- and y-directions (L_z in O.8.3.2, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_h in O.8.3.2 in mm)	30	22
Tolerance in the probe angle	1°	1°

[a] δ is the penetration depth for a plane-wave incident normally on a planar half-space.

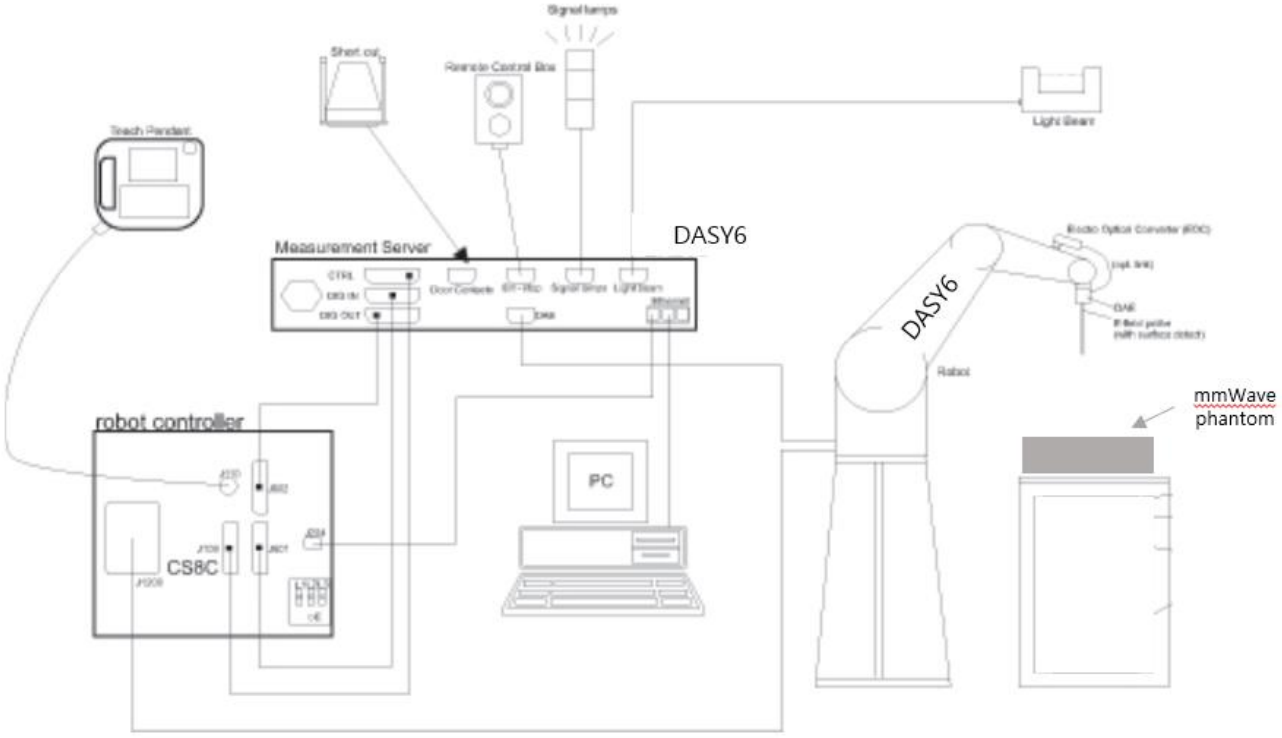
[b] This is the maximum spacing allowed, which might not work for all circumstances.

Step 4: Power drift measurement

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

4.2. Incident Power Density Measurement System

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom which is specialized for 5G other accessories according to the targeted measurement.

4.2.1. Power Density Scan Procedures

Step 1: Power Reference Measurement
The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to devise under test.

Step 2: 5G Scan
The steps in the X, Y, and Z directions are specified in terms of fractions of the signal wavelength ,lambda.
Area Scan Parameters extracted from DASY8 Module mmWave Manual.

Recommended settings for measurement of verification sources

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

The minimum distance of probe sensors to verification source surface, horn antenna, is 10 mm.

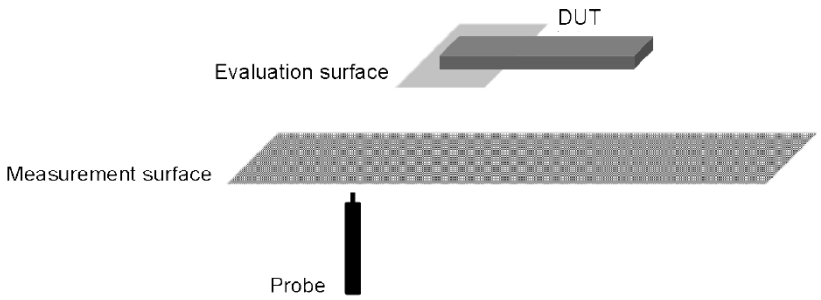
Per equipment manufacturer guidance for 6 – 10GHz, Power density was measured at d=2mm.

Step 3: Power drift measurement
The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1. When the drift is larger than ± 5 %, test is repeated from step1.

4.2.2. Total Field and Power Flux Density Reconstruction(measurement distance)

Reconstruction algorithms are used to project or transform the measured fields from the measurement surface to the evaluation surface (below fig) in order to determine power density or to compute spatial-average and/or local power density with known uncertainty.

Manufacture has developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-field polarization ellipse information obtained with the EUmmWVx probe. This reconstruction algorithm, together with the ability of the probe to measure extremely close to the source without perturbing the field, permits reconstruction of the E- and H-fields, as well as of the power density, on measurement planes.



4.3. Test Equipment

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

4.3.1. SAR Test Equipment

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	7-24-2024
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	7-17-2024
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	LKM	DTM3000	3851	7-25-2024
Thermometer	LKM	DTM3000	3862	7-25-2024

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	7-26-2024
Power Sensor	KEYSIGHT	U2000A	MY60180020	7-27-2024
Power Sensor	KEYSIGHT	U2000A	MY54260007	7-26-2024
Power Amplifier	EXODUS	AMP2027ADB	10002	1-6-2024
Directional Coupler	KRYTAR	100318010	215542	1-5-2024
Low Pass Filter	Wainwright Instruments	WLKX10-11000-13640-21000-60TS	1	7-25-2024
Attenuator	KEYSIGHT	8491B/010	MY39272011	7-25-2024
Attenuator	KEYSIGHT	8491B/020	MY39271973	7-25-2024
Attenuator	MINI-CIRCUITS	BW-S3W10+	N/A	1-6-2024
E-Field Probe	SPEAG	EX3DV4	7376	7-25-2024
E-Field Probe	SPEAG	EX3DV4	7545	8-25-2024
Data Acquisition Electronics	SPEAG	DAE4	1670	5-24-2024
Data Acquisition Electronics	SPEAG	DAE4	1468	8-24-2024
System Validation Dipole	SPEAG	D6.5GHz	1010	5-27-2024
Thermometer	Lutron	MHB-382SD	AK.12102	7-26-2024

Note(s):

1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
2. Refer to Appendix F that mentioned about justification for Extended SAR Dipole Calibrations (for blue box item).
3. All equipments were used until Cal.Due date.

4.3.2 Incident Power Density Test Equipment

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	7/26/2024
Pow er Sensor	KEYSIGHT	U2000A	MY60180020	7/27/2024
Pow er Sensor	KEYSIGHT	U2000A	MY54260007	7/26/2024
Pow er Amplifier	EXODUS	AMP2027ADB	10002	1/6/2024
Directional Coupler	KRYTAR	100318010	215542	1/5/2024
Low Pass Filter	Wainw right Instruments	WLKX10-11000-13640-21000-60TS	1	7/25/2024
Attenuator	KEYSIGHT	8491B/010	MY39272011	7/25/2024
Attenuator	KEYSIGHT	8491B/020	MY39271973	7/25/2024
Attenuator	MINI-CIRCUITS	BW-S3W10+	N/A	1/6/2024
5G probe	SPEAG	EummWV4	9559	2/16/2024
Data Acquisition Electronics	SPEAG	DAE4	1468	8/24/2024
Verification kit	SPEAG	5G verification source_10GHz	1022	2/20/2024
Thermometer	Lutron	MHB-382SD	AK.12102	7/26/2024

5. Measurement Uncertainty

5.1. SAR Measurement Uncertainty

Measurement uncertainty for 6 GHz to 10 GHz

(According to IEEE 62209-1528)

a	b	c		d	e	f	g	h =	l =	k
					f(d,k)			*c×f/e*	*c×g/e*	
Uncertainty component	Reference	Tol. 1 g (±%)	Tol. 10 g (±%)	Prob. Dist.	Div.	*ci* (1 g)	*ci* (10 g)	1 g *ui* (± %)	10 g *ui* (± %)	vi
Measurement System Errors										
Probe Calibration	8.4.1.1	18.6		Normal	2	1	1	9.3	9.3	∞
Probe Calibration Drift	8.4.1.2	1.7		Rectangular	1.732	1	1	1.0	1.0	∞
Probe Linearity	8.4.1.3	4.7		Rectangular	1.732	1	1	2.7	2.7	∞
Broadband Signal	8.4.1.4	2.8		Rectangular	1.732	1	1	1.6	1.6	∞
Probe Isotropy	8.4.1.5	7.6		Rectangular	1.732	1	1	4.4	4.4	∞
Data Acquisition	8.4.1.6	0.3		Normal	1	1	1	0.3	0.3	∞
RF Ambient	8.4.1.7	1.8		Normal	1	1	1	1.8	1.8	∞
Probe Positioning	8.4.1.8	0.005		Normal	1	0.50	0.50	0.25	0.25	∞
Data Processing	8.4.1.9	3.5		Normal	1	1	1	3.5	3.5	∞
Phantom and Device Errors										
Conductivity (meas.)DAK	8.4.2.1	2.5		Normal	1	0.78	0.71	2.0	1.8	∞
Conductivity (temp.)BB	8.4.2.2	2.4		Rectangular	1.732	0.78	0.71	1.1	1.0	∞
Phantom Permittivity	8.4.2.3	14.0		Rectangular	1.732	0	0	0.0	0.0	∞
Distance DUT -TSL	8.4.2.4	2.0		Normal	1	2	2	4.0	4.0	∞
Device Positioning	8.4.2.5	3.1	4.2	Normal	1	1	1	3.1	4.2	50
Device Holder	8.4.2.6	3.6		Normal	1	1	1	3.6	3.6	∞
DUT Modulation	8.4.2.7	2.4		Rectangular	1.732	1	1	1.4	1.4	∞
Time-average SAR	8.4.2.8	1.7		Rectangular	1.732	1	1	1.0	1.0	∞
DUT drift	8.4.2.9	5.0		Normal	1	1	1	5.0	5.0	∞
Correction to the SAR results										
Deviation to Target	8.4.3.1	1.9		Normal	1	1	0.84	1.9	1.6	∞
Combined Standard Uncertainty Uc(y) =				RSS				14.39	14.61	
Expanded Uncertainty U, Coverage Factor = 2, > 95 % Confidence =								**28.79**	**29.23**	

5.1.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

5.2. Uncertainty of psAPD (for 6GHz to 10GHz)

(According to SPEAG's Updated Interim Procedures for 6-10GHz)

Uncertainty Budget for psSAR / psAPD Assessments
(Frequency band : 6 - 10GHz range)

Symbol	Error Description	Uncert.	Prob. Dist	Div.	ci (1g) / (1 cm2)	ci (8g/10g) / (4 cm2)	Std. Unc. (1 g) / (1 cm2)	Std. Unc. (8g/10g) / (4 cm2)
psSAR	Module SAR V16.2 (Table 6.3.3)	±14.2/14.1%	N	1	1	1	±14.2%	±14.1%
PDC	Power Density Conversion	±13.5%	R	1.732	1	1	±7.8%	±7.8%
u(ΔSAR)	Combined Uncertainty						±16.2%	±16.9%
U	**Expanded Uncertainty** in dB						±32.4% ±1.2dB	±32.2% ±1.2dB

5.2.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

5.3. Incident Power Density Measurement Uncertainty

Measurement Uncertainty for cDASY8 Module mmWave						
Error Description	Uncertainty value (±dB)	Probe Dist.	Divisor	(Ci)	Std. Unc. (±dB)	(Vi)
Uncertainty terms dependent on the measurement system						
Calibration	**0.49**	Normal	1	1	0.49	Infinity
Probe correction	**0.00**	Rectangular	1.73	1	0.00	Infinity
Frequency response (BW =< 1 GHz)	**0.20**	Rectangular	1.73	1	0.12	Infinity
Sensor cross coupling	**0.00**	Rectangular	1.73	1	0.00	Infinity
Isotropy	**0.50**	Rectangular	1.73	1	0.29	Infinity
Linearity	**0.20**	Rectangular	1.73	1	0.12	Infinity
Probe scattering	**0.00**	Rectangular	1.73	1	0.00	Infinity
Probe positioning offset	**0.30**	Rectangular	1.73	1	0.17	Infinity
Probe positioning repeatability	**0.04**	Rectangular	1.73	1	0.02	Infinity
Sensor mechanical offset	**0.00**	Rectangular	1.73	1	0.00	Infinity
Probe spatial resolution	**0.00**	Rectangular	1.73	1	0.00	Infinity
Field impedance dependance	**0.00**	Rectangular	1.73	1	0.00	Infinity
Measurement drift	**0.05**	Rectangular	1.73	1	0.03	Infinity
Amplitude and phase noise	**0.04**	Rectangular	1.73	1	0.02	Infinity
Measurement area truncation	**0.00**	Rectangular	1.73	1	0.00	Infinity
Data acquisition	**0.03**	Normal	1.00	1	0.03	Infinity
Sampling	**0.00**	Rectangular	1.73	1	0.00	Infinity
Field reconstruction	**0.60**	Rectangular	1.73	1	0.35	Infinity
Signal-to-Noise Ratio	**0.00**	Rectangular	1.73	1	0.00	Infinity
FTE/MEO	**0.00**	Rectangular	1.73	1	0.00	Infinity
Power density scaling	**-**	Rectangular	1.73	1	-	Infinity
Spatial averaging	**0.10**	Rectangular	1.73	1	0.06	Infinity
Uncertainty terms dependent on the DUT and environmental factors						
Probe coupling with DUT	**0.00**	Rectangular	1.73	1	0.00	Infinity
Modulation response	**0.40**	Rectangular	1.73	1	0.23	Infinity
Integration time	**0.00**	Rectangular	1.73	1	0.00	Infinity
Response time	**0.00**	Rectangular	1.73	1	0.00	Infinity
Device holder influence	**0.10**	Rectangular	1.73	1	0.06	Infinity
DUT alignment	**0.00**	Rectangular	1.73	1	0.00	Infinity
RF ambient conditions	**0.04**	Rectangular	1.73	1	0.02	Infinity
Laboratory Temperature	**0.05**	Rectangular	1.73	1	0.03	Infinity
Laboratory Reflections	**0.04**	Rectangular	1.73	1	0.02	Infinity
Immunity / secondary reception	**0.00**	Rectangular	1.73	1	0.00	Infinity
Drift of the DUT	**-**	Rectangular	1.73	1	0.00	Infinity
Combined Std. Uncertainty					0.75	Infinity
Expanded Standard Uncertainty (95%)					**1.51**	

5.3.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension	Refer to Appendix A.		
Back Cover	☒ The Back Cover is not removable.		
Battery Options	☒ The rechargeable battery is not user accessible		
Test Sample Information	**No.**	**S/N**	**Notes**
	1	R3CW90BXLKA	Conducted
	2	R3CW90HRRPN	Radiated
	3	R3CW90BXLBE	Radiated

6.2. Wireless Technologies of UNII 6E

Wireless technologies	Frequency bands	Operating mode	Duty Cycle used for SAR & PD testing
Wi-Fi_UNII 6e (Above 6GHz)	UNII Band 5 (5925-6425 MHz) UNII Band 6 (6425-6525 MHz) UNII Band 7 (6525-6885 MHz) UNII Band 8 (6885-7125 MHz)	802.11a 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80) 802.11ax (HE160)	99.63% (802.11ax (HE160))

Notes:

Duty cycle for Wi-Fi is referenced from the UNII report.

6.3. Nominal Output Power

RF Air interface	Mode	Indoor AP					
		Pmax			Plimit (DSI=0,1)		
		WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1 + Ant.2)	WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1 + Ant.2)
WiFi 6 GHz (UNII - 5)	802.11a	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE20	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE40	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE80	14.0	14.0	17.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 6)	802.11a	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE20	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE40	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE80	14.0	14.0	17.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 7)	802.11a	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE20	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE40	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE80	14.0	14.0	17.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 8)	802.11a	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE20	10.0	10.0	13.0	10.0	10.0	13.0
	802.11ax HE40	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE80	14.0	14.0	17.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0

RF Air interface	Mode	Standard AP					
		Pmax			Plimit (DSI=0,1)		
		WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1 + Ant.2)	WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1 + Ant.2)
WiFi 6 GHz (UNII - 5)	802.11a	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE20	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE40	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE80	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 7)	802.11a	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE20	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE40	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE80	16.0	16.0	19.0	10.0	10.0	13.0
	802.11ax HE160	14.0	14.0	17.0	10.0	10.0	13.0

Notes:

1. This device has support Dual Client (6CD) in UNII 6-7GHz. So Indoor AP support to UNII 5-8, and Standard AP supports to UNII 5, 7.

7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

Forder Closed configuration

Wireless technologies	RF Exposure Conditions	Antena	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
UNII 6e	Head	WiFi 6G SISO Ant 1	0 mm	Left Touch	N/A	Yes	
				Left Tilt (15°)	N/A	Yes	
				Right Touch	N/A	Yes	
				Right Tilt (15°)	N/A	Yes	
	Body-worn & Hotspot		10 mm	Rear	N/A	Yes	
				Front	N/A	Yes	
	Product Specific 10-g		0 mm	Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
				Top	< 25 mm	Yes	
				Left	> 25 mm	No	1
				Bottom	> 25 mm	No	1
				Right	< 25 mm	Yes	
	Head	WiFi 6G SISO Ant 2	0 mm	Left Touch	N/A	Yes	
				Left Tilt (15°)	N/A	Yes	
				Right Touch	N/A	Yes	
				Right Tilt (15°)	N/A	Yes	
	Body-worn & Hotspot		10 mm	Rear	N/A	Yes	
				Front	N/A	Yes	
	Product Specific 10-g		0 mm	Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
				Top	< 25 mm	Yes	
				Left	< 25 mm	Yes	
				Bottom	> 25 mm	No	1
				Right	> 25 mm	No	1
	Head	WiFi 6G MIMO	0 mm	Left Touch	N/A	Yes	
				Left Tilt (15°)	N/A	Yes	
				Right Touch	N/A	Yes	
				Right Tilt (15°)	N/A	Yes	
	Body-worn & Hotspot		10 mm	Rear	N/A	Yes	
				Front	N/A	Yes	
	Product Specific 10-g		0 mm	Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
				Top	< 25 mm	Yes	
				Left	< 25 mm	Yes	
				Bottom	> 25 mm	No	1
				Right	< 25 mm	Yes	

Notes:

2. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
3. For Phablet devices: When hotspot mode applies, Product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.
4. For Phablet devices: When hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.

8. SAR System Check with Dielectric Property Measurements

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized.
The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after 1 days of use; for example, when the parameters are marginal at the beginning of the measurement series. Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

Tissue Dielectric Parameters

Refer to Table 2 within the IEC/IEEE Std 62209-1528 : 2020

Target Frequency (MHz)	Tissue parameters	
	ε_r	σ (S/m)
5800	35.3	5.27
6000	35.1	5.48
6500	34.5	6.07
7000	33.9	6.65

Dielectric Property Measurements Results:

SAR 8 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
10/22/2023	Head 6000	e'	35.3900	Relative Permittivity (ε_r):	35.39	35.10	0.83	5
		e"	16.1000	Conductivity (σ):	5.37	5.48	-1.98	5
	Head 6200	e'	35.2900	Relative Permittivity (ε_r):	35.29	34.86	1.23	5
		e"	16.3100	Conductivity (σ):	5.62	5.72	-1.63	5
	Head 6500	e'	34.9100	Relative Permittivity (ε_r):	34.91	34.50	1.19	5
		e"	16.8200	Conductivity (σ):	6.08	6.07	0.15	5
	Head 6600	e'	34.3400	Relative Permittivity (ε_r):	34.34	34.38	-0.12	5
		e"	17.0600	Conductivity (σ):	6.26	6.19	1.21	5
	Head 6800	e'	34.3000	Relative Permittivity (ε_r):	34.30	34.14	0.47	5
		e"	17.0300	Conductivity (σ):	6.44	6.42	0.33	5
	Head 7000	e'	34.0400	Relative Permittivity (ε_r):	34.04	33.90	0.41	5
		e"	16.9900	Conductivity (σ):	6.61	6.65	-0.56	5
10/23/2023	Head 6000	e'	35.7900	Relative Permittivity (ε_r):	35.79	35.10	1.97	5
		e"	16.1600	Conductivity (σ):	5.39	5.48	-1.62	5
	Head 6200	e'	35.6800	Relative Permittivity (ε_r):	35.68	34.86	2.35	5
		e"	16.3300	Conductivity (σ):	5.63	5.72	-1.51	5
	Head 6500	e'	35.1100	Relative Permittivity (ε_r):	35.11	34.50	1.77	5
		e"	16.8200	Conductivity (σ):	6.08	6.07	0.15	5
	Head 6600	e'	34.7100	Relative Permittivity (ε_r):	34.71	34.38	0.96	5
		e"	16.7400	Conductivity (σ):	6.14	6.19	-0.69	5
	Head 6800	e'	34.3600	Relative Permittivity (ε_r):	34.36	34.14	0.64	5
		e"	17.0300	Conductivity (σ):	6.44	6.42	0.33	5
	Head 7000	e'	33.9400	Relative Permittivity (ε_r):	33.94	33.90	0.12	5
		e"	16.9000	Conductivity (σ):	6.58	6.65	-1.08	5
10/24/2023	Head 6000	e'	35.9400	Relative Permittivity (ε_r):	35.94	35.10	2.39	5
		e"	16.2100	Conductivity (σ):	5.41	5.48	-1.31	5
	Head 6200	e'	35.7700	Relative Permittivity (ε_r):	35.77	34.86	2.61	5
		e"	16.4000	Conductivity (σ):	5.65	5.72	-1.09	5
	Head 6500	e'	35.1800	Relative Permittivity (ε_r):	35.18	34.50	1.97	5
		e"	16.8800	Conductivity (σ):	6.10	6.07	0.51	5
	Head 6600	e'	34.9000	Relative Permittivity (ε_r):	34.90	34.38	1.51	5
		e"	16.8000	Conductivity (σ):	6.17	6.19	-0.34	5
	Head 6800	e'	34.5300	Relative Permittivity (ε_r):	34.53	34.14	1.14	5
		e"	17.1500	Conductivity (σ):	6.48	6.42	1.04	5
	Head 7000	e'	34.1600	Relative Permittivity (ε_r):	34.16	33.90	0.77	5
		e"	17.0000	Conductivity (σ):	6.62	6.65	-0.50	5

SAR 9 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
10/22/2023	Head 6000	e'	34.3400	Relative Permittivity (ϵ_r):	34.34	35.10	-2.17	5
		e''	15.7500	Conductivity (σ):	5.25	5.48	-4.12	5
	Head 6200	e'	34.2500	Relative Permittivity (ϵ_r):	34.25	34.86	-1.75	5
		e''	15.9100	Conductivity (σ):	5.48	5.72	-4.04	5
	Head 6500	e'	33.7400	Relative Permittivity (ϵ_r):	33.74	34.50	-2.20	5
		e''	16.4300	Conductivity (σ):	5.94	6.07	-2.17	5
	Head 6600	e'	33.4300	Relative Permittivity (ϵ_r):	33.43	34.38	-2.76	5
		e''	16.3300	Conductivity (σ):	5.99	6.19	-3.12	5
	Head 6800	e'	33.1100	Relative Permittivity (ϵ_r):	33.11	34.14	-3.02	5
		e''	16.6400	Conductivity (σ):	6.29	6.42	-1.97	5
	Head 7000	e'	32.8100	Relative Permittivity (ϵ_r):	32.81	33.90	-3.22	5
		e''	16.4800	Conductivity (σ):	6.41	6.65	-3.54	5
10/23/2023	Head 6000	e'	34.3500	Relative Permittivity (ϵ_r):	34.35	35.10	-2.14	5
		e''	16.4000	Conductivity (σ):	5.47	5.48	-0.16	5
	Head 6200	e'	34.2900	Relative Permittivity (ϵ_r):	34.29	34.86	-1.64	5
		e''	16.6300	Conductivity (σ):	5.73	5.72	0.30	5
	Head 6500	e'	33.8000	Relative Permittivity (ϵ_r):	33.80	34.50	-2.03	5
		e''	17.1600	Conductivity (σ):	6.20	6.07	2.17	5
	Head 6600	e'	33.4500	Relative Permittivity (ϵ_r):	33.45	34.38	-2.71	5
		e''	17.1300	Conductivity (σ):	6.29	6.19	1.62	5
	Head 6800	e'	33.1100	Relative Permittivity (ϵ_r):	33.11	34.14	-3.02	5
		e''	17.4400	Conductivity (σ):	6.59	6.42	2.74	5
	Head 7000	e'	32.7100	Relative Permittivity (ϵ_r):	32.71	33.90	-3.51	5
		e''	17.3200	Conductivity (σ):	6.74	6.65	1.37	5

8.2. System Check

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

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 10.0 cm for measurements > 6 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 5 mm (above 6GHz) from dipole center to the simulating liquid surface.
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles.

System Dipole	Serial No.	Cal. Date	Freq. (MHz)	Target SAR Values (W/kg)	
				1g/10g	Head
D6.5GHzV2	1010	2022-05-27	6500	1g	285.00
				10g	52.90
				APD(4cm^2)	1300.00

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

SAR 4 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
10/22/2023	D6.5GHzV2	1010	Head	1g	29.7	297.0	285.00	4.21	1
				10g	5.7	57.3	52.90	8.32	
				APD(4cm^2)	135.0	1350.0	1300.00	3.85	
10/23/2023	D6.5GHzV2	1010	Head	1g	28.5	285.0	285.00	0.00	
				10g	5.6	55.8	52.90	5.48	
				APD(4cm^2)	135.0	1350.0	1300.00	3.85	
10/24/2023	D6.5GHzV2	1010	Head	1g	27.9	279.0	285.00	-2.11	
				10g	5.5	55.0	52.90	3.97	
				APD(4cm^2)	133.0	1330.0	1300.00	2.31	

SAR 9 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
10/22/2023	D6.5GHzV2	1010	Head	1g	28.70	287.0	285.00	0.70	
				10g	5.33	53.3	52.90	0.76	
				APD(4cm^2)	135.00	1350.0	1300.00	3.85	
10/23/2023	D6.5GHzV2	1010	Head	1g	29.40	294.0	285.00	3.16	2
				10g	5.69	56.9	52.90	7.56	
				APD(4cm^2)	138.00	1380.0	1300.00	6.15	

9. IPD(Incident Power Density) System with Dielectric Property

9.1. Dielectric Property

Media is air so Relative Permittivity (ϵr) and Conductivity (σ) is 1.

9.2. System Check

Per Nov 2017,TCB Workshop

System validation is required before a system is deployed for measurement
System check is also required before each series of continuous measurement and, as applicable, repeated at least weekly
Peak and spatially averaged power density at the peak location(s) must be compared to calibrated results according to the defined test conditions

- the same spatial resolution and measurement region used in the waveguide calibration should be applied to system validation and system check
- 4 cm^2 spatial averaging have been used according to FCC requirement.
- power density distribution should also be verified, both spatially (shape) and numerically (level) through visual inspection for noticeable differences
- The Horn antenna input power (forward power) was 100mW.
- The measured psPDn+, psPDtot+, and psPDmod+ values over 1 cm2 or 4 cm2 for the desired averaging geometry are compared to the calibrated value and expected to be below 0.66 dB

Reference Target PD Values

Per the manufacturer's guide, the target value of the calibration report was converted to a value of 100mW input power.

5G verification Source	Serial No.	Cal. Date	Freq. (MHz)	Averaging area	Prad (mW)	Input power (mW)	Target PD Values (W/m^2)		Note
							1 cm^2	4 cm^2	
10GHz	1022	2-20-2023	100000	Circular	89.1		58.60	53.90	Cal.report target
10GHz	1022	2-20-2023	100000	Circular		100	65.77	60.49	Convert target from Cal.report

SAR 9 Room

Date	Sorce SN	Sorce Cal. Due Data	Input Power (mW)	Measured Results for 1cm^2 (W/m^2)	**Target** (Ref. Value) (W/m^2)	**Delta** ±10 %	Measured Total psPD for 4cm^2 (W/m^2)	**Target** (Ref. Value) (W/m^2)	**Delta** ±10 %	visual inspection	Plot No.
10/24/2022	1022	3/1/2023	100.0	62.9	65.77	-4.36	57.9	60.49	-4.28	confirmed	3
10/25/2022	1022	3/1/2023	100.0	63.5	65.77	-3.45	57.9	60.49	-4.28	confirmed	

Note(s):

psPD value used the ps_{tot} avg value of test result plot.

9.3. Wi-Fi 6 GHz (U-NII Bands)

WLAN SISO Ant 1, 2

Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Plimit (DSI=0,1) Average Power				SAR Test (Yes/No)
					WLAN SISO Ant.1		WLAN SISO Ant.2		
					Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	
UNII 5 (5.925 - 6.425 GHz)	802.11a	6 Mbps	1	5955	Not Required	10.00	Not Required	10.00	No
			45	6175					
			93	6415					
	802.11ax (HE20)	7.3 Mbps	1	5935	Not Required	10.00	Not Required	10.00	No
			45	6175					
			93	6415					
	802.11ax (HE40)	14.6 Mbps	3	5965	Not Required	10.00	Not Required	10.00	No
			43	6165					
			91	6405					
	802.11ax (HE80)	36.0 Mbps	7	5985	Not Required	10.00	Not Required	10.00	No
			39	6145					
			87	6385					
	802.11ax (HE160)	72.0 Mbps	15	6025	8.90	10.00	9.14	10.00	Yes
			47	6185	9.06		9.16		
			79	6345	8.95		9.07		
UNII 6 (6.425 - 6.525 GHz)	802.11a	6 Mbps	97	6435	Not Required	10.00	Not Required	10.00	No
			105	6475					
			113	6515					
	802.11ax (HE20)	7.3 Mbps	97	6435	Not Required	10.00	Not Required	10.00	No
			105	6475					
			113	6515					
	802.11ax (HE40)	14.6 Mbps	99	6445	Not Required	10.00	Not Required	10.00	No
			115	6525					
	802.11ax (HE80)	36.0 Mbps	103	6465	Not Required	10.00	Not Required	10.00	No
	802.11ax (HE160)	72.0 Mbps	111	6505	9.13	10.00	8.97	10.00	Yes
UNII 7 (6.525 - 6.885 GHz)	802.11a	6 Mbps	117	6535	Not Required	10.00	Not Required	10.00	No
			149	6695					
			185	6875					
	802.11ax (HE20)	7.3 Mbps	117	6535	Not Required	10.00	Not Required	10.00	No
			149	6695					
			185	6875					
	802.11ax (HE40)	14.6 Mbps	123	6565	Not Required	10.00	Not Required	10.00	No
			147	6685					
			179	6845					
	802.11ax (HE80)	36.0 Mbps	119	6545	Not Required	10.00	Not Required	10.00	No
			151	6705					
			183	6865					
	802.11ax (HE160)	72.0 Mbps	143	6665	9.30	10.00	9.13	10.00	Yes
			175	6825	8.90		8.63		
UNII 8 (6.885 - 7.125 GHz)	802.11a	6 Mbps	189	5955	Not Required	10.00	Not Required	10.00	No
			209	6175					
			233	6415					
	802.11ax (HE20)	7.3 Mbps	189	5955	Not Required	10.00	Not Required	10.00	No
			209	6175					
			233	6415					
	802.11ax (HE40)	14.6 Mbps	187	6885	Not Required	10.00	Not Required	10.00	No
			203	6965					
			227	7085					
	802.11ax (HE80)	36.0 Mbps	199	6945	Not Required	10.00	Not Required	10.00	No
			215	7025					
	802.11ax (HE160)	72.0 Mbps	207	6985	9.28	10.00	9.18	10.00	Yes

Note(s):

1. Indoor AP for Plimit(DSI=0,1) target power is equal to Standard AP related all RF exposure conditions.
2. Per TCB workshop April.2021's guide, Channel power verification was performed for UNII 6e (5925MHz-7125MHz). So, 5 test channels of 802.11ax (HE160) were determined for SAR test. Refer to blue box in table.

WLAN MIMO Ant

Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Pmax (=Plimit) Average Power				SAR Test (Yes/No)
					WLAN MIMO Ant.1		WLAN MIMO Ant.2		
					Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	
UNII 5 (5.925 - 6.425 GHz)	802.11a	6 Mbps	1	5955	Not Required	10.00	Not Required	10.00	No
			45	6175					
			93	6415					
	802.11ax (HE20)	7.3 Mbps	1	5935	Not Required	10.00	Not Required	10.00	No
			45	6175					
			93	6415					
	802.11ax (HE40)	14.6 Mbps	3	5965	Not Required	10.00	Not Required	10.00	No
			43	6165					
			91	6405					
	802.11ax (HE80)	36.0 Mbps	7	5985	Not Required	10.00	Not Required	10.00	No
			39	6145					
			87	6385					
	802.11ax (HE160)	72.0 Mbps	15	6025	8.66	10.00	9.20	10.00	Yes
			47	6185	8.94		9.26		
			79	6345	9.08		9.10		
UNII 6 (6.425 - 6.525 GHz)	802.11a	6 Mbps	97	6435	Not Required	10.00	Not Required	10.00	No
			105	6475					
			113	6515					
	802.11ax (HE20)	7.3 Mbps	97	6435	Not Required	10.00	Not Required	10.00	No
			105	6475					
			113	6515					
	802.11ax (HE40)	14.6 Mbps	99	6445	Not Required	10.00	Not Required	10.00	No
			115	6525					
	802.11ax (HE80)	36.0 Mbps	103	6465	Not Required	10.00	Not Required	10.00	No
	802.11ax (HE160)	72.0 Mbps	111	6505	9.41	10.00	8.97	10.00	Yes
UNII 7 (6.525 - 6.885 GHz)	802.11a	6 Mbps	117	6535	Not Required	10.00	Not Required	10.00	No
			149	6695					
			185	6875					
	802.11ax (HE20)	7.3 Mbps	117	6535	Not Required	10.00	Not Required	10.00	No
			149	6695					
			185	6875					
	802.11ax (HE40)	14.6 Mbps	123	6565	Not Required	10.00	Not Required	10.00	No
			147	6685					
			179	6845					
	802.11ax (HE80)	36.0 Mbps	119	6545	Not Required	10.00	Not Required	10.00	No
			151	6705					
			183	6865					
	802.11ax (HE160)	72.0 Mbps	143	6665	9.59	10.00	9.15	10.00	Yes
			175	6825	9.10		8.70		
UNII 8 (6.885 - 7.125 GHz)	802.11a	6 Mbps	189	5955	Not Required	10.00	Not Required	10.00	No
			209	6175					
			233	6415					
	802.11ax (HE20)	7.3 Mbps	189	5955	Not Required	10.00	Not Required	10.00	No
			209	6175					
			233	6415					
	802.11ax (HE40)	14.6 Mbps	187	6885	Not Required	10.00	Not Required	10.00	No
			203	6965					
			227	7085					
	802.11ax (HE80)	36.0 Mbps	199	6945	Not Required	10.00	Not Required	10.00	No
			215	7025					
	802.11ax (HE160)	72.0 Mbps	207	6985	9.47	10.00	9.17	10.00	Yes

Note(s):

1. Indoor AP for Plimit(DSI=0,1) target power is equal to Standard AP related all RF exposure conditions.
2. Per TCB workshop April.2021's guide, Channel power verification was performed for UNII 6e (5925MHz-7125MHz). So, 5 test channels of 802.11ax (HE160) were determined for SAR test. Refer to blue box in table.

10. SAR and APD(Absorbed Power Density) Results

SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for Wi-Fi = Measured SAR * Tune-up scaling factor * Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm.
When hotspot mode does not apply, 10-g extremity SAR is required for all surfaces and edges with an antenna located at ≤ 25mm From that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, Including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Additional 1-g SAR testing at 5 mm is not required when hotspot mode 10-g extremity SAR is not required for the surfaces and edges; since all 1-g reported SAR < 1.2 W/kg.

10.1. WiFi (UNII Bands-Above 6GHz)

SISO Ant SAR test results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
									Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
WLAN SISO Ant.1	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.6%	10.00	9.30	0.011	0.013			
					Left Tilt	143	6665.0	99.6%	10.00	9.30	0.006	0.007			
					Right Touch	15	6025.0	99.6%	10.00	8.90	0.122	0.158			
						79	6345.0	99.6%	10.00	8.95	0.238	0.304			1
						111	6505.0	99.6%	10.00	9.13	0.148	0.181			
						143	6665.0	99.6%	10.00	9.30	0.073	0.086			
						207	6985.0	99.6%	10.00	9.28	0.038	0.045			
					Right Tilt	143	6665.0	99.6%	10.00	9.30	0.051	0.060			
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.6%	10.00	8.90	0.021	0.027			
						79	6345.0	99.6%	10.00	8.95	0.061	0.078			2
						111	6505.0	99.6%	10.00	9.13	0.048	0.059			
						143	6665.0	99.6%	10.00	9.30	0.044	0.052			
						207	6985.0	99.6%	10.00	9.28	0.017	0.020			
					Front	143	6665.0	99.6%	10.00	9.30	0.010	0.012			
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.6%	10.00	9.30			0.129	0.152	
					Front	143	6665.0	99.6%	10.00	9.30			0.026	0.031	
					Top	143	6665.0	99.6%	10.00	9.30			0.040	0.047	
					Right	15	6025.0	99.6%	10.00	8.90			0.308	0.398	
						79	6345.0	99.6%	10.00	8.95			0.401	0.513	3
						111	6505.0	99.6%	10.00	9.13			0.292	0.358	
						143	6665.0	99.6%	10.00	9.30			0.209	0.246	
						207	6985.0	99.6%	10.00	9.28			0.124	0.147	
WLAN SISO Ant.2	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	207	6985.0	99.6%	10.00	9.18	0.029	0.035			
					Left Tilt	207	6985.0	99.6%	10.00	9.18	0.031	0.038			
					Right Touch	207	6985.0	99.6%	10.00	9.18	0.029	0.035			
					Right Tilt	111	6505.0	99.6%	10.00	9.14	0.003	0.004			
						143	6665.0	99.6%	10.00	9.07	0.017	0.021			
						207	6985.0	99.6%	10.00	8.97	0.014	0.018			
						207	6985.0	99.6%	10.00	9.13	0.018	0.022			
						207	6985.0	99.6%	10.00	9.18	0.032	0.039			4
	Body		N/A	10	Rear	15	6025.0	99.6%	10.00	9.14	0.017	0.021			
						79	6345.0	99.6%	10.00	9.07	0.007	0.009			
						111	6505.0	99.6%	10.00	8.97	0.004	0.005			
						143	6665.0	99.6%	10.00	9.13	0.004	0.005			
						207	6985.0	99.6%	10.00	9.18	0.019	0.023			5
					Front	207	6985.0	99.6%	10.00	9.18	0.005	0.006			
	Product Specific 10-g		N/A	0	Rear	15	6025.0	99.6%	10.00	9.14			0.089	0.109	6
						79	6345.0	99.6%	10.00	9.07			0.035	0.044	
						111	6505.0	99.6%	10.00	8.97			0.024	0.031	
						143	6665.0	99.6%	10.00	9.13			0.017	0.021	
						207	6985.0	99.6%	10.00	9.18			0.023	0.028	
					Front	207	6985.0	99.6%	10.00	9.18			0.031	0.038	
					Top	207	6985.0	99.6%	10.00	9.18			0.010	0.012	
					Left	207	6985.0	99.6%	10.00	9.18			0.002	0.002	

MIMO Ant SAR test results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
									Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
WLAN MIMO Ant.1	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.6%	10.00	9.59	0.022	0.024			
					Left Tilt	143	6665.0	99.6%	10.00	9.59	0.028	0.031			
					Right Touch	15	6025.0	99.6%	10.00	8.66	0.105	0.143			
						79	6345.0	99.6%	10.00	9.08	0.180	0.223			7
						111	6505.0	99.6%	10.00	9.41	0.092	0.106			
						143	6665.0	99.6%	10.00	9.59	0.068	0.075			
						207	6985.0	99.6%	10.00	9.47	0.021	0.024			
					Right Tilt	143	6665.0	99.6%	10.00	9.59	0.045	0.050			
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.6%	10.00	8.66	0.027	0.037			
						79	6345.0	99.6%	10.00	9.08	0.053	0.066			8
						111	6505.0	99.6%	10.00	9.41	0.049	0.056			
						143	6665.0	99.6%	10.00	9.59	0.032	0.035			
						207	6985.0	99.6%	10.00	9.47	0.024	0.027			
					Front	143	6665.0	99.6%	10.00	9.59	0.003	0.003			
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.6%	10.00	9.59			0.517	0.570	
					Front	143	6665.0	99.6%	10.00	9.59			0.269	0.297	
					Top	143	6665.0	99.6%	10.00	9.59					
					Left	143	6665.0	99.6%	10.00	9.59					
					Right	15	6025.0	99.6%	10.00	8.66			0.269	0.368	
						79	6345.0	99.6%	10.00	9.08			0.304	0.377	9
						111	6505.0	99.6%	10.00	9.41			0.211	0.243	
						143	6665.0	99.6%	10.00	9.59			0.162	0.179	
						207	6985.0	99.6%	10.00	9.47			0.074	0.084	
WLAN MIMO Ant.2	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.6%	10.00	9.15					
					Left Tilt	143	6665.0	99.6%	10.00	9.15					
					Right Touch	15	6025.0	99.6%	10.00	9.20					
						79	6345.0	99.6%	10.00	9.10					
						111	6505.0	99.6%	10.00	8.97					
						143	6665.0	99.6%	10.00	9.15					
						207	6985.0	99.6%	10.00	9.17					
					Right Tilt	143	6665.0	99.6%	10.00	9.15					
	Body		N/A	10	Rear	15	6025.0	99.6%	10.00	9.20					
						79	6345.0	99.6%	10.00	9.10					
						111	6505.0	99.6%	10.00	8.97					
						143	6665.0	99.6%	10.00	9.15	0.032	0.039			
						207	6985.0	99.6%	10.00	9.17	0.024	0.029			
					Front	143	6665.0	99.6%	10.00	9.15					
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.6%	10.00	9.15					
					Front	143	6665.0	99.6%	10.00	9.15					
					Top	143	6665.0	99.6%	10.00	9.15			0.019	0.023	
					Left	143	6665.0	99.6%	10.00	9.15			0.013	0.016	
					Right	15	6025.0	99.6%	10.00	9.20					
						79	6345.0	99.6%	10.00	9.10					
						111	6505.0	99.6%	10.00	8.97					
						143	6665.0	99.6%	10.00	9.15					
						207	6985.0	99.6%	10.00	9.17					

APD (Absorbed Power Density) results

SISO Ant SAR test results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		Measured APD (mW/cm^2 over 4cm^2)	Plot No.
									Tune-up limit	Meas.		
WLAN SISO Ant.1	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.6%	10.00	9.30	0.0042	
					Left Tilt	143	6665.0	99.6%	10.00	9.30	0.0038	
					Right Touch	15	6025.0	99.6%	10.00	8.90	0.0674	
						79	6345.0	99.6%	10.00	8.95	0.1360	1
						111	6505.0	99.6%	10.00	9.13	0.0851	
						143	6665.0	99.6%	10.00	9.30	0.0379	
						207	6985.0	99.6%	10.00	9.28	0.0195	
					Right Tilt	143	6665.0	99.6%	10.00	9.30	0.0250	
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.6%	10.00	8.90	0.0155	
						79	6345.0	99.6%	10.00	8.95	0.0471	2
						111	6505.0	99.6%	10.00	9.13	0.0357	
						143	6665.0	99.6%	10.00	9.30	0.0325	
						207	6985.0	99.6%	10.00	9.28	0.0099	
					Front	143	6665.0	99.6%	10.00	9.30	0.0083	
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.6%	10.00	9.30	0.3070	
					Front	143	6665.0	99.6%	10.00	9.30	0.0607	
					Top	143	6665.0	99.6%	10.00	9.30	0.0919	
					Right	15	6025.0	99.6%	10.00	8.90	0.7360	
						79	6345.0	99.6%	10.00	8.95	0.9610	3
						111	6505.0	99.6%	10.00	9.13	0.7000	
						143	6665.0	99.6%	10.00	9.30	0.5030	
						207	6985.0	99.6%	10.00	9.28	0.2990	
WLAN SISO Ant.2	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	207	6985.0	99.6%	10.00	9.18	0.0113	
					Left Tilt	207	6985.0	99.6%	10.00	9.18	0.0142	
					Right Touch	207	6985.0	99.6%	10.00	9.18	0.0122	
					Right Tilt	15	6025.0	99.6%	10.00	9.14	0.0016	
						79	6345.0	99.6%	10.00	9.07	0.0066	
						111	6505.0	99.6%	10.00	8.97	0.0040	
						143	6665.0	99.6%	10.00	9.13	0.0065	
						207	6985.0	99.6%	10.00	9.18	0.0149	4
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.6%	10.00	9.14	0.0105	
						79	6345.0	99.6%	10.00	9.07	0.0034	
						111	6505.0	99.6%	10.00	8.97	0.0052	
						143	6665.0	99.6%	10.00	9.13	0.0029	
						207	6985.0	99.6%	10.00	9.18	0.0187	5
					Front	207	6985.0	99.6%	10.00	9.18	0.0072	
	Product Specific 10-g		N/A	0	Rear	15	6025.0	99.6%	10.00	9.14	0.2090	6
						79	6345.0	99.6%	10.00	9.07	0.0846	
						111	6505.0	99.6%	10.00	8.97	0.0561	
						143	6665.0	99.6%	10.00	9.13	0.0409	
						207	6985.0	99.6%	10.00	9.18	0.0557	
					Front	207	6985.0	99.6%	10.00	9.18	0.0762	
					Top	207	6985.0	99.6%	10.00	9.18	0.0248	
					Left	207	6985.0	99.6%	10.00	9.18	0.0053	

Note(s):

1. APD (Absorbed Power Density) over 4cm^2 averaging area is reported based on SAR measurements.
2. 10 W/m^2 = 1.0 mW/cm^2

MIMO Ant SAR test results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		Measured APD (mW/cm^2 over 4cm^2)	Plot No.
									Tune-up limit	Meas.		
WLAN MIMO Ant.1	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.63%	10.00	9.59	0.0079	
					Left Tilt	143	6665.0	99.63%	10.00	9.59	0.0093	
					Right Touch	15	6025.0	99.63%	10.00	8.66	0.0523	
						79	6345.0	99.63%	10.00	9.08	0.0891	7
						111	6505.0	99.63%	10.00	9.41	0.0474	
						143	6665.0	99.63%	10.00	9.59	0.0352	
						207	6985.0	99.63%	10.00	9.47	0.0092	
					Right Tilt	143	6665.0	99.63%	10.00	9.59	0.0244	
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.63%	10.00	8.66	0.0132	
						79	6345.0	99.63%	10.00	9.08	0.0326	8
						111	6505.0	99.63%	10.00	9.41	0.0283	
						143	6665.0	99.63%	10.00	9.59		
						207	6985.0	99.63%	10.00	9.47		
					Front	143	6665.0	99.63%	10.00	9.59	0.0000	
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.63%	10.00	9.59	0.2990	
					Front	143	6665.0	99.63%	10.00	9.59	0.1580	
					Top	143	6665.0	99.63%	10.00	9.59		
					Left	143	6665.0	99.63%	10.00	9.59		
					Right	15	6025.0	99.63%	10.00	8.66	0.6550	
						79	6345.0	99.63%	10.00	9.08	0.7410	9
						111	6505.0	99.63%	10.00	9.41	0.5080	
						143	6665.0	99.63%	10.00	9.59	0.3960	
						207	6985.0	99.63%	10.00	9.47	0.1810	
WLAN MIMO Ant.2	Head	802.11ax HE160 72.0 Mbps	N/A	0	Left Touch	143	6665.0	99.63%	10.00	9.20		
					Left Tilt	143	6665.0	99.63%	10.00	9.20		
					Right Touch	15	6025.0	99.63%	10.00	9.20		
						79	6345.0	99.63%	10.00	9.10		
						111	6505.0	99.63%	10.00	8.97		
						143	6665.0	99.63%	10.00	9.15		
						207	6985.0	99.63%	10.00	9.17		
					Right Tilt	143	6665.0	99.63%	10.00	9.20		
	Body-worn & Hotspot		N/A	10	Rear	15	6025.0	99.63%	10.00	9.20		
						79	6345.0	99.63%	10.00	9.10		
						111	6505.0	99.63%	10.00	8.97		
						143	6665.0	99.63%	10.00	9.15	0.0202	
						207	6985.0	99.63%	10.00	9.17	0.0086	
					Front	143	6665.0	99.63%	10.00	9.20	0.0000	
	Product Specific 10-g		N/A	0	Rear	143	6665.0	99.63%	10.00	9.20		
					Front	143	6665.0	99.63%	10.00	9.20		
					Top	143	6665.0	99.63%	10.00	9.20	0.0455	
					Left	143	6665.0	99.63%	10.00	9.20	0.0328	
					Right	15	6025.0	99.63%	10.00	9.20		
						79	6345.0	99.63%	10.00	9.10		
						111	6505.0	99.63%	10.00	8.97		
						143	6665.0	99.63%	10.00	9.15		
						207	6985.0	99.63%	10.00	9.17		

Note(s):

1. APD (Absorbed Power Density) over 4cm^2 averaging area is reported based on SAR measurements.
2. 10 W/m^2 = 1.0 mW/cm^2

11. IPD(Incident Power density) Results

11.1. WiFi (UNII Bands-Above 6GHz)

SISO Ant SAR test results

Antenna	Mode	Test Position	Dist. (mm)	Ch.	Freq. (MHz)	Duty Cycle	Grid Step (Lamda)	Power (dBm)		Measured. Normal psPD	Measured. Total psPD	Reported. Normal psPD Note.3	Reported. Total psPD Note.3	Scailing factor for Measurement Uncertainty per IEC 62479 Note.2	Scaled Normal psPD	Scaled Total psPD	Plot No.
								Tune-up limit	Meas.	mW/cm^2	mW/cm^2	mW/cm^2	mW/cm^2		mW/cm^2	mW/cm^2	
WLAN SISO Ant.1	802.11ax HE 160	Right	2.00	79	6345.0	99.6%	0.043	10.00	8.95	0.3200	0.6270	0.4070	0.7990	1.116	0.4542	0.8917	10
WLAN SISO Ant.2	802.11ax HE 160	Rear	2.00	207	6985.0	99.6%	0.048	10.00	9.18	0.0514	0.0722	0.0621	0.0872	1.116	0.0693	0.0973	11

MIMO Ant SAR test results

Antenna	Mode	Test Position	Dist. (mm)	Ch.	Freq. (MHz)	Duty Cycle	Grid Step (Lamda)	Power (dBm)		Measured. Normal psPD	Measured. Total psPD	Reported. Normal psPD Note.3	Reported. Total psPD Note.3	Scailing factor for Measurement Uncertainty per IEC 62479 Note.2	Scaled Normal psPD	Scaled Total psPD	Plot No.
								Tune-up limit	Meas.	mW/cm^2	mW/cm^2	mW/cm^2	mW/cm^2		mW/cm^2	mW/cm^2	
WLAN MIMO Ant.1	802.11ax HE 160	Rear	2.00	79	6345.0	99.6%	0.043	10.00	9.08	0.1280	0.1950	0.1610	0.2450	1.116	0.1797	0.2734	
		Front		79	6345.0	99.6%	0.043	10.00	9.08	0.0611	0.1120	0.0768	0.1400	1.116	0.0857	0.1562	
		Top		79	6345.0	99.6%	0.043	10.00	9.08	0.0671	0.1130	0.0843	0.1420	1.116	0.0941	0.1585	
		Left		79	6345.0	99.6%	0.043							1.116			
		Right		79	6345.0	99.6%	0.043	10.00	9.08	0.3100	0.5600	0.3890	0.7030	1.116	0.4341	0.7845	11
WLAN MIMO Ant.1	802.11ax HE 160	Rear	2.00	79	6345.0	99.6%	0.043							1.116			
		Front		79	6345.0	99.6%	0.043							1.116			
		Top		79	6345.0	99.6%	0.043	10.00	9.10	0.0671	0.1130	0.0826	0.1390	1.116	0.0922	0.1551	
		Left		79	6345.0	99.6%	0.043	10.00	9.10	0.0112	0.0211	0.0138	0.0260	1.116	0.0154	0.0290	
		Right		79	6345.0	99.6%	0.043							1.116			

Note(s):

1. 10 W/m^2 = 1.0 mW/cm^2
2. Per TCBC workshop guide, Incident power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 1.51 dB (41.6%) was used to determine the psPD measurement scailing factor.
3. Power density test data were scaled to tune-up limit using measurement system tool.
4. Per manufacturer guide, Grid Step setting were using the automatic grid step function of measurement system tool.
5. Per manufacturer guide, Incident power density was measured at d=2mm.
6. ESR Algorithm was used during psPD measurement and calculations.
7. SISO Ant mode was evaluated in the worst case configuration of SAR test results.
8. MIMO Ant mode was evaluated for the entire measurement position in the worst case configuration of SAR test results.

12. Simultaneous Transmission Analysis

Please refer to section.12 in FCC SAR report S1.

Appendixes

Refer to separated files for the following appendixes.

4790976523-S2 FCC Report Above 6GHz_App A_PD Photos & Ant. Locations

4790976523-S2 FCC Report Above 6GHz _App B_Highest SAR and PD Test Plots

4790976523-S2 FCC Report Above 6GHz _App C_System Check Plots

4790976523-S2 FCC Report Above 6GHz _App D_SAR Tissue Ingredients

4790976523-S2 FCC Report Above 6GHz _App E_Probe Cal. Certificates

4790976523-S2 FCC Report Above 6GHz _App F_Dipole and Horn antenna Cal. Certificates

END OF REPORT