

FCC 47 CFR § 2.1093 IEC/IEEE Std 62209-1528 : 2020 IEC TR 63170 : 2018

RF EVALUATION REPORT (Above 6GHz)

FOR

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

MODEL NUMBER: SM-S918B/DS, SM-S918B

FCC ID: A3LSMS918B

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Prepared for

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TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	10/28/2022	Initial Issue	
V2	11/9/2022	Added 6E SAR test at UNII-6 and UNII-8 Sec. 8 & 9.3 & 10.1	Seungyeon Kim
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1. Attestation of Test Results

Applicant Name	SAMSUNG ELECTRONICS CO.,LTD.					
FCC ID	A3LSMS918B					
Model Number	SM- S918B/DS	S, SM-S918B				
Applicable Standards	FCC 47 CFR § 2.1093 IEC/IEEE Std 62209-1528 : 2020 IEC TR 63170 : 2018 Published RF exposure KDB procedures					
	SAR Limit	s (W/Kg)		Power Density Limits (mW/cm² over 4cm²)		
Exposure Category	Peak spatial- average (1g of tissue)	Product Specific 10g (10g of tissue)	, ,	PD Power Density)	IP (Incident Por	_
General population / Uncontrolled exposure	1.6 4.0		N/A		1.0	
	Equipment Class					
RF Exposure Conditions	The Highest Reported SAR (W/kg)		APD (mW/cm ²)		IPD (mW/cm²)	
	6CD	UWB	6CD	UWB	6CD	UWB
Head	0.087	N/A	0.039	N/A		
Body-worn	0.146	N/A	0.098	N/A	0.436	0.012
Hotspot	N/A	N/A	N/A N/A		0.430	0.012
Product Specific 10g	0.217 0.002		0.433	0.004		
Date Tested	10/12/2022 to 11/7/2022					
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.

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UL Korea, Ltd. Suwon Laboratory	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 the following FCC Published RF exposure KDB procedures:

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

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

- o TCB workshop April, 2021; RF Exposure Policies (U-NII 6-7 GHz Interim Procedures)
- SPEAG, 5G Module Application Note: 5G Compliance Testing
- SPEAG DASY6 Application Note : Interim Procedures 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 7 Room
SAR 8 Room
SAR 9 Room

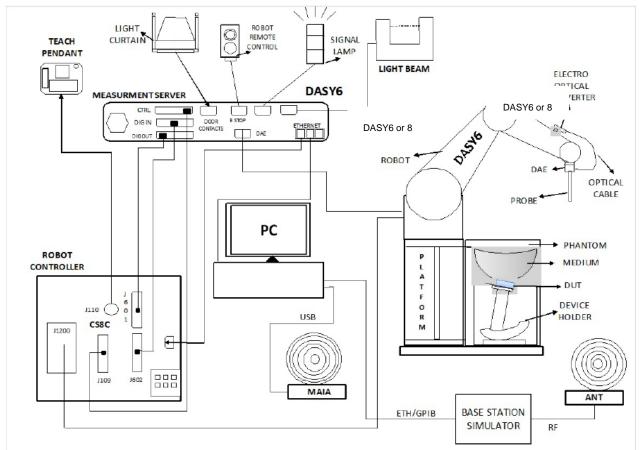
UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.

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, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 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.

Baramatar	DUT transmit frequency being tested			
Parameter	<i>f</i> ≤ 3 GHz	3 GHz < <i>f</i> ≤ 10 GHz		
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface ($z_{\rm M1}$ in Figure 20 in mm)	5 ± 1	δ ln(2)/2 ± 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 $(\alpha \text{ in Figure 20})^c$	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.

Danamatan	DUT transmit frequency being tested			
Parameter	<i>f</i> ≤ 3 GHz	3 GHz < f ≤ 10 GHz		
Maximum distance between the closest measured points and the phantom surface $(z_{\rm M1}$ in Figure 20 and Table 3, in mm)	5	δ In(2)/2 ^a		
Maximum angle between the probe axis and the	5° (flat phantom only)	5° (flat phantom only)		
phantom surface normal (α in Figure 20)	30° (other phantoms)	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 $(\Delta z_1$ 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 <i>lf</i>		
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 $(L_h \text{ in O.8.3.2 in mm})$	30	22		
Tolerance in the probe angle	1°	1°		
a δ is the penetration depth for a plane-wave inc	ident normally on a planar half-s	space.		

 $^{{\}mathcal S}$ is the penetration depth for a plane-wave incident normally on a planar half-space.

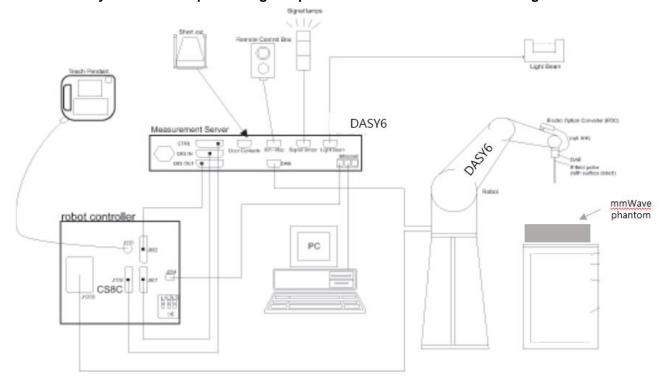
Step 4: Power drift measurement

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.

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

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, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 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 SPEAG, 5G Module V1.2 Application Note.

Recommended settings for measurement of verification sources

Frequency [GHz]	Grid step	Grid extent X/Y [mm]	Measurement points
10	$0.25 \left(\frac{\lambda}{4}\right)$	120/120	16 × 16
30	$0.25 \left(\frac{\lambda}{4}\right)$	60/60	24 × 24
60	$0.25 \left(\frac{\lambda}{4}\right)$	31/31	26 × 26
90	$0.25 \left(\frac{\lambda}{4}\right)$	29/29	35 × 35

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 and d= λ /5mm using 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.

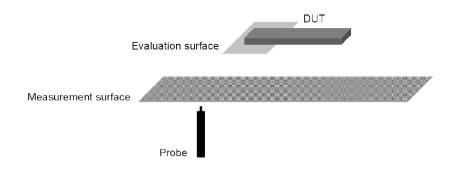
Step 3: Power drift measurement

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 \pm 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.



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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
Netw ork Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	8-5-2023
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	7-25-2023
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	LKM	DTM3000	3851	8-3-2023
Thermometer	LKM	DTM3000	3862	8-3-2023

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	8-4-2023
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	8-4-2023
Pow er Sensor	Keysight	U2000A	MY60180020	8-3-2023
Pow er Sensor	Agilent	U2000A	MY54260007	8-3-2023
Pow er Sensor	Keysight	U2000A	MY60490008	8-3-2023
Pow er Sensor	Keysight	U2000A	MY61060004	8-3-2023
Pow er Sensor	Keysight	U2000A	MY61010006	8-3-2023
Pow er Amplifier	MINI-CIRCUITS	ZVE-3W-183+	311602009	8-4-2023
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	8-3-2023
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	8-3-2023
Low Pass Filter	Wainw right Instruments	WLKX10-11000 -13640-21000-60TS	1	8-2-2023
Attenuator	KEYSIGHT	8491B/010	MY39271981	8-3-2023
Attenuator	KEYSIGHT	8491B/010	MY39272011	8-2-2023
Attenuator	KEYSIGHT	8491B/020	MY39271973	8-3-2023
Attenuator	MINI-CIRCUITS	BW-S3W10+	N/A	4-7-2023
E-Field Probe	SPEAG	EX3DV4	7376	7-27-2023
E-Field Probe	SPEAG	EX3DV4	7545	8-19-2023
Data Acquisition Electronics	SPEAG	DA E4	1591	3-24-2023
System Validation Dipole	SPEAG	D6.5GHzV2	1010	5-27-2023
System Validation Dipole	SPEAG	D8GHzV2	1008	6-10-2023
Thermometer	Lutron	MHB-382SD	AK.18789	8-9-2023

4.3.2 Incident Power Density Test Equipment

System Check

No see of For Second	Man fact and	T /8 A 1 - 1	O I NI-	0-1 D - D-1
Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	8-4-2023
Pow er Sensor	Keysight	U2000A	MY60180020	8-3-2023
Pow er Sensor	Agilent	U2000A	MY 54260007	8-3-2023
Pow er Amplifier	MINI-CIRCUITS	ZVE-3W-183+	311602009	8-4-2023
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	8-3-2023
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	8-3-2023
Low Pass Filter	Wainw right Instruments	WLKX10-11000-13640-21000-60TS	1	8-2-2023
Attenuator	KEYSIGHT	8491B/010	MY39271981	8-3-2023
Attenuator	KEYSIGHT	8491B/010	MY39272011	8-2-2023
Attenuator	KEYSIGHT	8491B/020	MY39271973	8-3-2023
Attenuator	MINI-CIRCUITS	BW-S3W10+	N/A	4-7-2023
5G Probe	SPEAG	EUmmWV4	9493	1-27-2023
5G Probe	SPEAG	EUmmWV4	9536	2-28-2023
Data Acquisition Electronics	SPEAG	DA E4	1670	6-7-2023
Data Acquisition Electronics	SPEAG	DA E4	1447	3-25-2023
5G Verification Source (10GHz)	SPEAG	5G Verification Source_10GHz	1022	3-1-2023
Thermometer	Lutron	MHB-382SD	AK12102	8-9-2023

Note(s):

1. For SÁR 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.

5. Measurement Uncertainty

5.1. SAR Measurement Uncertainty

Measurement uncertainty for 6 GHz to 10 GHz

(According to IEEE 62209-1528)

a	b		С	d	e f(d,k)	f	g	h = cxf/e	l = cxg/e	k
Uncertainty component	Reference	Tol. 1 g (±%)	Tol. 10 g (±%)	Prob. Dist.	Div.	<i>ci</i> (1 g)	<i>ci</i> (10 g)	1 g ui (± %)	10 g ui (± %)	vi
Measurement System Errors	·			•						•
Probe Calibration	8.4.1.1	18	3.6	Normal	2	1	1	9.3	9.3	00
Probe Calibration Drift	8.4.1.2	1	.7	Rectangular	1.732	1	1	1.0	1.0	00
Probe Linearity	8.4.1.3	4	.7	Rectangular	1.732	1	1	2.7	2.7	00
Broadband Signal	8.4.1.4	2	1.8	Rectangular	1.732	1	1	1.6	1.6	∞
Probe Isotropy	8.4.1.5	7	7.6	Rectangular	1.732	1	1	4.4	4.4	00
Data Acquisition	8.4.1.6	0	1.3	Normal	1	1	1	0.3	0.3	00
RF Ambient	8.4.1.7	1	.8	Normal	1	1	1	1.8	1.8	00
Probe Positioning	8.4.1.8	0.0	005	Normal	1	0.50	0.50	0.25	0.25	00
Data Processing	8.4.1.9	3	1.5	Normal	1	1	1	3.5	3.5	8
Phantom and Device Errors										
Conductivity (meas.)DAK	8.4.2.1	2	5	Normal	1	0.78	0.71	2.0	1.8	00
Conductivity (temp.)BB	8.4.2.2	2	4	Rectangular	1.732	0.78	0.71	1.1	1.0	00
Phantom Permittivity	8.4.2.3	14	4.0	Rectangular	1.732	0	0	0.0	0.0	00
Distance DUT -TSL	8.4.2.4	2	0	Normal	1	2	2	4.0	4.0	00
Device Positioning	8.4.2.5	3.8	4.5	Normal	1	1	1	3.8	4.5	50
Device Holder	8.4.2.6	3	3.6	Normal	1	1	1	3.6	3.6	00
DUT Modulation	8.4.2.7	2	.4	Rectangular	1.732	1	1	1.4	1.4	00
Time-average SAR	8.4.2.8	1	.7	Rectangular	1.732	1	1	1.0	1.0	00
DUT drift	8.4.2.9	5	i.0	Normal	1	1	1	5.0	5.0	00
Correction to the SAR results							<u> </u>			
Deviation to Target	8.4.3.1	1	.9	Normal	1	1	0.84	1.9	1.6	00
Combined Standard Uncertainty Uc(y) = RSS									14.68	
Expanded Uncertainty U, Coverage Factor = 2, > 9	5 % Confidence =							29.15	29.37	

5.1.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedures 1, Clause 4.4.2 in IEC Guide 115:2007.

5.2. Incident Power Density Measurement Uncertainty

Measurement Uncertainty for cDASY6 Module mmWave						
Error Description	Uncertainty	Probe Dist.	Divisor	(Ci)	Std. Unc.	(Vi)
·	value (±dB)	T TODG DIST.	DIVISOR	(OI)	(±dB)	(• 1)
Uncertainty terms dependent on the measurement system				1		1
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
Amplitude and phase drift	0.00	Rectangular	1.73	1	0.00	Infinity
Amplitude and phase noise	0.04	Rectangular	1.73	1	0.02	Infinity
Measurement area truncation	0.10	Rectangular	1.73	1	0.06	Infinity
Data acquisition	0.03	Normal	1.00	1	0.03	Infinity
Sampling	0.00	Rectangular	1.73	1	0.00	Infinity
Field reconstruction	1.97	Rectangular	1.73	1	1.14	Infinity
Forward transformation	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
System detection limit	0.04	Rectangular	1.73	1	0.02	Infinity
Uncertainty terms dependent on the DUT and environmenta	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
Ambient 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	0.22	Rectangular	1.73	1	0.13	Infinity
Combined Sto	d. Uncertainty				1.	33
Expanded Standar	d Uncertainty (95%	<u> </u>			2.	65

5.2.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedures 2, Clause 4.4.3 in IEC Guide 115:2007.

6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension	Refer to Appe	ndix A.								
Back Cover	⊠ The Back C	☐ The Back Cover is not removable.								
Battery Options		☑ The rechargeable battery is not user accessible								
Test Sample Information	No.	S/N	Notes							
	1	R3CT7081YTB	Conducted							
	2	R3CT7081XZJ	Conducted							
	3	R3CT70824NX	Radiated							
	4	R3CT90EYVXZ	Radiated							
	5	R3CT90WSH7P	Radiated							
	6	R3CT90WSG6T	Radiated							
	7	R3CT90WSFPW	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)	99.7% (802.11ax (HE40)) 99.7% (802.11ax (HE160))
UWB	Ch.5 (6489.6 MHz) Ch.9 (7987.2 MHz)	Signal Configurations(0/1/3), PRF modes(BPRF/HPRF)	100%

Notes:

^{1.} Duty cycle for Wi-Fi is referenced from the UNII report.

6.3. Nominal Maximum and Reduced Output Power

			Indoor A	.P			Stand	ard AP		
RF Air interface	Mode	M ax.	. RF Output Po	wer (dBm)	M ax	. RF Output Po	wer (dBm)	Reduc	ed. RF Output F	Power (dBm)
711 7111 1110 1000		WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1+Ant.2)	WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1+Ant.2)	WLAN Ant.1	WLAN Ant.2	MIMO (Ant.1+Ant.2)
	802.11a	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE20	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 5)	802.11ax HE40	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
(* ',	802.11ax HE80	9.0	9.0	12.0	11.0	11.0	14.0	10.0	10.0	13.0
	802.11ax HE160	9.0	9.0	12.0	11.0	11.0	14.0	10.0	10.0	13.0
	802.11a	9.0	9.0	12.0						
WiFi 6 GHz (UNII - 6)	802.11ax HE20	9.0	9.0	12.0						
	802.11ax HE40	9.0	9.0	12.0						
(802.11ax HE80	9.0	9.0	12.0						
	802.11ax HE160	9.0	9.0	12.0						
	802.11a	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
	802.11ax HE20	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
WiFi 6 GHz (UNII - 7)	802.11ax HE40	9.0	9.0	12.0	12.0	12.0	15.0	10.0	10.0	13.0
, ,	802.11ax HE80	9.0	9.0	12.0	11.0	11.0	14.0	10.0	10.0	13.0
	802.11ax HE160	9.0	9.0	12.0	11.0	11.0	14.0	10.0	10.0	13.0
	802.11a	9.0	9.0	12.0						
	802.11ax HE20	9.0	9.0	12.0						
WiFi 6 GHz (UNII - 8)	802.11ax HE40	9.0	9.0	12.0						
, ,	802.11ax HE80	9.0	9.0	12.0						
	802.11ax HE160	9.0	9.0	12.0						

Note(s):

- Only MIMO mode supports for UNII 6e Bands.
- 2. This device has support Dual Client (6CD) in UNII 6-7GHz. So Indoor AP support to UNII 5 8, and Standard AP supports to UNII5, 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.

Wireless	RF Exposure	A-4	DUT-to-User	Test	Antenna-to-	SAR	NI-4-
technologies	Conditions	Antena	Separation	Position	edge/surface	Required	Note
				Left Touch	N/A	Yes	
	Head		0 mm	Left Tilt (15°)	N/A	Yes	
	neau		O mim	Right Touch	N/A	Yes	
				Right Tilt (15°)	N/A	Yes	
	Body	1455.00	15 mm	Rear	N/A	Yes	
UNII 6e	Войу	WiFi 6G MIMO	15 111111	Front	N/A	Yes	
UNII 6e		IVIIIVIO		Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
	Product Specific 10-g		0	Edge 1 (Top)	< 25 mm	Yes	
			0 mm	Edge 2 (Right)	< 25 mm	Yes	
				Edge 3 (Bottom)	> 25 mm	No	1
				Edge 4 (Left)	< 25 mm	Yes	
		Antenna 1		Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
			0 mm	Edge 1 (Top)	> 25 mm	No	
		Alterna	0 111111	Edge 2 (Right)	> 25 mm	No	
				Edge 3 (Bottom)	> 25 mm	No	1
UWB	Product			Edge 4 (Left)	< 25 mm	Yes	
0,,,5	Specific 10-g			Rear	< 25 mm	Yes	
				Front	< 25 mm	Yes	
		Antenna 2	0 mm	Edge 1 (Top)	< 25 mm	Yes	
		Antenna 2	0	Edge 2 (Right)	> 25 mm	No	
				Edge 3 (Bottom)	> 25 mm	No	1
				Edge 4 (Left)	< 25 mm	Yes	

Notes:

- 1. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
- 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.
- 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.
- 4. Per manufacturer guide, UWB SAR was considered about only hand held condition (Product Specific 10-g).

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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 $\pm 2^{\circ}$ C of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after 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				
raiget i requeitcy (Mi iz)	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			
7500	33.3	7.24			
8000	32.7	7.84			
8500	32.1	8.46			

Dielectric Property Measurements Results: SAR 7 Room

Date	Freq. (MHz)		Li	quid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 6000	e'	35.7000	Relative Permittivity (ε _r):	35.70	35.10	1.71	5
	nead 6000	e"	15.7600	Conductivity (σ):	5.26	5.48	-4.05	5
	Head 6200	e'	35.3700	Relative Permittivity (ε _r):	35.37	34.86	1.46	5
	Head 0200	e"	16.0600	Conductivity (σ):	5.54	5.72	-3.14	5
	Head 6500	e'	34.9500	Relative Permittivity (ε_r):	34.95	34.50	1.30	5
10/11/2022	Head 0500	e"	16.3400	Conductivity (σ):	5.91	6.07	-2.71	5
10/11/2022	Head 6600	e'	34.8000	Relative Permittivity (ε_r) :	34.80	34.38	1.22	5
	Head 0000	e"	16.4600	Conductivity (σ):	6.04	6.19	-2.35	5
	Head 6800	e'	34.5400	Relative Permittivity (ε_r) :	34.54	34.14	1.17	5
	riead 0000	e"	16.6200	Conductivity (σ):	6.28	6.42	-2.09	5
	Head 7000	e'	34.3700	Relative Permittivity (ε_r):	34.37	33.90	1.39	5
	Tiead 7000	e"	16.3800	Conductivity (σ):	6.38	6.65	-4.13	5
	Head 7000	e'	33.6200	Relative Permittivity (ε_r) :	33.62	33.90	-0.83	5
	Head 7000	e"	17.2500	Conductivity (σ):	6.71	6.65	0.96	5
	Head 7250	e'	33.1900	Relative Permittivity (ε_r) :	33.19	33.60	-1.22	5
	Tieau 7230	e"	17.3800	Conductivity (σ):	7.01	6.95	0.88	5
	Head 7500	e'	32.8500	Relative Permittivity (ε_r) :	32.85	33.30	-1.35	5
10/11/2022	Tieau 7500	e"	17.4300	Conductivity (σ):	7.27	7.24	0.40	5
10/11/2022	Head 7800	e'	32.3400	Relative Permittivity (ε_r) :	32.34	32.94	-1.82	5
	rieau 7000	e"	17.5100	Conductivity (σ):	7.59	7.60	-0.08	5
	Head 8000	e'	32.1300	Relative Permittivity (ε_r) :	32.13	32.70	-1.74	5
	Tiead 0000	e"	17.5900	Conductivity (σ):	7.82	7.84	-0.20	5
	Head 8100	e'	31.9200	Relative Permittivity (ε_r) :	31.92	32.58	-2.03	5
	nead 6100	e"	17.6700	Relative Permittivity (e,): 35.37 34.86	-0.07	5		
	Head 6000	e'	35.9200	Relative Permittivity (ε_r) :	35.92	35.10	2.34	5
	riead 0000	e"	16.0700	Conductivity (σ):	5.36	5.48	-2.17	5
	Head 6200	e'	35.4900	Relative Permittivity (ε_r):	35.49	34.86	1.81	5
	Tiead 0200	e"	16.4000	Conductivity (σ):	5.65	5.72	-1.09	5
	Head 6500	e'	34.9700	Relative Permittivity (ε_r) :	34.97	34.50	1.36	5
10/17/2022	Head 0500	e"	16.7200	Conductivity (σ):	6.04	6.07	-0.45	5
10/17/2022	Head 6600	e'	34.8100	Relative Permittivity (ε_r) :	34.81	34.38	1.25	5
	i lead 0000	e"	16.7900	Conductivity (σ):	6.16	6.19	-0.39	5
	Head 6800	e'	34.4500	Relative Permittivity (e _r):	34.45	34.14	0.91	5
	neau 0000	e"	16.9500	Conductivity (σ):	6.41	6.42	-0.14	5
	Hood 7000	e'	34.1800	Relative Permittivity (e _r):	34.18	33.90	0.83	5
	Head 7000	e"	17.0600	Conductivity (σ):	6.64	6.65	-0.15	5

Date	Freq. (MHz)		Lic	quid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 6000	e'	34.4600	Relative Permittivity (ε_r):	34.46	35.10	-1.82	5
	nead 6000	e"	15.9400	Conductivity (σ):	5.32	5.48	-2.96	5
	Head 6200	e'	34.1400	Relative Permittivity (ε_r):	34.14	34.86	-2.07	5
	neau 0200	e"	16.1600	Conductivity (σ):	5.57	5.72	-2.54	5
	Head 6500	e'	33.7100	Relative Permittivity (ε_r):	33.71	34.50	-2.29	5
10/20/2022	neau 0500	e"	16.4400	Conductivity (σ):	5.94	6.07	-2.11	5
10/20/2022	Head 6600	e'	33.5400	Relative Permittivity (ε_r):	33.54	34.38	-2.44	5
	nead 6600	e"	16.5300	Conductivity (σ):	6.07	6.19	-1.94	5
	Head 6800	e'	33.2400	Relative Permittivity (ε_r):	33.24	34.14	-2.64	5
		e"	16.6800	Conductivity (σ):	6.31	6.42	-1.73	5
	Head 7000	e'	32.9200	Relative Permittivity (ε_r):	32.92	33.90	-2.89	5
	neau 7000	e"	16.8300	Conductivity (σ):	6.55	6.65	-1.49	5
	Head 6000	e'	36.1300	Relative Permittivity (ε_r):	36.13	35.10	2.93	5
		e"	15.9500	Conductivity (σ):	5.32	5.48	-2.90	5
	Hand 6000	e'	35.7600	Relative Permittivity (ε_r):	35.76	34.86	2.58	5
	Head 6200	e"	16.2000	Conductivity (σ):	5.58	5.72	-2.30	5
	Head 6500	e'	35.2600	Relative Permittivity (ε_r):	35.26	34.50	2.20	5
11/7/2022	neau 0500	e"	16.4700	Conductivity (σ):	5.95	6.07	-1.93	5
11/7/2022	Head 6600	e'	35.0800	Relative Permittivity (ε_r):	35.08	34.38	2.04	5
	nead 6600	e"	16.5900	Conductivity (σ):	6.09	6.19	-1.58	5
	Head 6800	e'	34.7300	Relative Permittivity (ε _r):	34.73	34.14	1.73	5
	nead 6600	e"	16.7400	Conductivity (σ):	6.33	6.42	-1.38	5
	Head 7000	e'	34.4400	Relative Permittivity (ε_r):	34.44	33.90	1.59	5
	nead 7000	e"	16.8600	Conductivity (σ):	6.56	6.65	-1.32	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)		
System Dipole	Seliai No.	Cal. Date	1 1eq. (IVII 12)	1g/10g	Head	
D6.5GHzV2 1010	1010	5/27/2023	6500	1g	285.00	
D0.5G112V2	1010	3/21/2023	0300	10g	52.90	
D8GHzV2	1008	6/10/2023	8000	1g	267.00	
D00112V2	1000	0/10/2023	5500	10g	45.00	

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 7 Room

	System	Dipole	т	T.S. Liquid		d Results	Target	Delta		
Date Tested	Туре	Serial#				Normalize to 1 W	(Ref. Value)	±10 %	Plot No.	
10/11/2022	D8GHzV2	1008	Head	1g	27.10	271.0	267.00	1.50	1	
10/11/2022	D0G1 12 V 2	1000	rieau	10g	4.79	47.9	45.00	6.44	'	
10/11/2022	D6.5G V2	1010	Head	1g	29.10	291.0	285.00	2.11		
10/11/2022	11/2022 D0.5G V2			10g	5.71	57.1	52.90	7.94		
10/17/2022	D6.5G V2	V2 1010	Head	1g	29.80	298.0	285.00	4.56		
10/11/2022	D0.50 V2	1010	ricau	10g	5.77	57.7	52.90	9.07		
10/20/2022	D6.5G V2	1010	Head	1g	27.30	273.0	285.00	-4.21		
10/20/2022	10/20/2022 D6.5G V2	1010	rieau	10g	5.19	51.9	52.90	-1.89		
11/7/2022	11/7/2022 D6.5G V2	1010	Head	1g	26.50	265.0	285.00	-7.02	2	
11/1/2022	D0.3G V2	1010	i ieau	10g	5.18	51.8	52.90	-2.08	2	

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

9.1. Dielectric Property

Media is air so Relative Permittivity (ε r) 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 cm² 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 86.1 mW.
- The measured results should be within 10% of the calibrated targets

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 Serial No.	Cal. Date	Freg. (MHz)	Averaging	Prad	Input power	Target PD Va	Note		
Source	Source Senai No.	Cal. Date	rieq. (IVIIIZ)	area	area (mW)	(dBm)	1 cm^2	4 cm^2	Note
10GHz	1022	3-1-2022	10000	Circular	86.1	19.35	59.60	54.80	Cal.report target / Probe SN:9536
10GHz	1022	3-1-2022	10000	Circular	86.1	19.35	55.10	51.30	Cal.report target Probe SN:9493

SAR 8 Room

OAIL O ILO	OIII										
Date	Sorce SN	Sorce Cal. Due Data	Input Pow er (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.
10/13/2022	1022	3/1/2023	86.1	54.20	59.60	-9.06	50.40	54.8	-8.03	confirmed	3
10/14/2022	1022	3/1/2023	86.1	55.00	59.60	-7.72	50.80	54.8	-7.30	confirmed	
10/15/2022	1022	3/1/2023	86.1	54.50	59.60	-8.56	50.50	54.8	-7.85	confirmed	
10/20/2022	1022	3/1/2023	86.1	60.40	59.60	1.34	55.70	54.8	1.64	confirmed	
10/21/2022	1022	3/1/2023	86.1	59.20	59.60	-0.67	53.10	54.8	-3.10	confirmed	4
10/22/2022	1022	3/1/2023	86.1	55.90	59.60	-6.21	51.30	54.8	-6.39	confirmed	
10/24/2022	1022	3/1/2023	86.1	64.40	59.60	8.05	58.50	54.8	6.75	confirmed	
10/25/2022	1022	3/1/2023	86.1	59.90	59.60	0.50	55.30	54.8	0.91	confirmed	

SAR 9 Room

	Date	Sorce SN	Sorce Cal. Due Data	Input Pow er (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	/12/2022	1022	3/1/2023	86.1	60.20	55.10	9.26	55.30	51.3	7.80	confirmed	5

Note(s):

psPD value used the pstot avg value of test result plot.

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

Indoor AP

						Max. Ave	rage Power		
Band				Freq.	WLAN	/IMO Ant.1	WLAN MIM	O Ant.2	SAR Test
(GHz)	Mode	Data Rate	Ch#	(MHz)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	(Yes/No)
	802.11a	6 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE20)	7.3 Mbps		Not Required	l	9.00	Not Required	9.00	No
UNII 5 (5.925 - 6.425	802.11ax (HE40)	14.6 Mbps	3 43 91	5965 6165 6405	8.15 8.25 8.08	9.00	8.09 8.72 8.40	9.00	No
GHz)	802.11ax (HE80)	36.0 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE160)	72.0 Mbps	15 47 79	6025 6185 6345	7.30 8.78 7.80	9.00	8.84 8.66 8.15	9.00	No
	802.11a	6 Mbps		Not Required		9.00	Not Required	9.00	No
UNII 6	802.11ax (HE20)	7.3 Mbps		Not Required	ı	9.00	Not Required	9.00	No
(6.425 - 6.525 GHz)	802.11ax (HE40)	14.6 Mbps		Not Required	ı	9.00	Not Required	9.00	No
,	802.11ax (HE80)	36.0 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE160)	72.0 Mbps	111	6505	7.76	9.00	8.36	9.00	No
	802.11a	6 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE20)	7.3 Mbps		Not Required	ı	9.00	Not Required	9.00	No
UNII 7 (6.525 - 6.885 GHz)	802.11ax (HE40)	14.6 Mbps	123 147 179	6565 6685 6845	8.20 7.84 8.22	9.00	8.22 8.60 8.03	9.00	No
	802.11ax (HE80)	36.0 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE160)	72.0 Mbps	143 175	6665 6825	8.48 8.66	9.00	8.89 8.52	9.00	No
	802.11a	6 Mbps		Not Required	1	9.00	Not Required	9.00	No
LINIII O	802.11ax (HE20)	7.3 Mbps		Not Required	1	9.00	Not Required	9.00	No
UNII 8 (6.885 - 7.125 GHz)	802.11ax (HE40)	14.6 Mbps		Not Required		9.00	Not Required	9.00	No
	802.11ax (HE80)	36.0 Mbps		Not Required	l	9.00	Not Required	9.00	No
	802.11ax (HE160)	72.0 Mbps	207	6985	8.50	9.00	8.11	9.00	No

Standard AP

						Max. Avera	age Power				R	educed. Av	erage Pow	er er	
Donal				F	WLANN	IIMO Ant.1	WLAN MI	MO Ant.2	CART		WLANM	IMO Ant.1	WLANM	IIMO Ant.2	CADT
Band (GHz)	Mode	Data Rate	Ch#	Freq. (MHz)	Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)	Ch#	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)
	802.11a	6 Mbps	1 45 91	5955 6175 6415	11.39 11.66 11.40	12.00	11.01 11.52 11.20	12.00	No	45		10.00		10.00	No
	802.11ax (HE20)	7.3 Mbps	1 45 93	5935 6175 6415	10.71 11.16 10.88	12.00	10.94 11.35 10.99	12.00	No	1 45		10.00		10.00	No
UNII 5 (5.925 - 6.425	802.11ax (HE40)	14.6 Mbps	3 43 91	5965 6165 6405	11.24 11.78 11.38	12.00	11.60 11.98 11.76	12.00	Yes	3 43 91		10.00		10.00	No
GHz)	802.11ax (HE80)	36.0 Mbps	7 39 87	5985 6145 6385	10.08 10.40 10.35	11.00	10.40 10.44 10.19	11.00	No	7 39 87		10.00		10.00	No
	802.11ax (HE160)	72.0 Mbps	15 47 79	6025 6185 6345	10.80 10.56 10.90	11.00	10.81 10.71 10.39	11.00	No	15 47 79	8.76 9.41 9.48	10.00	9.45 9.36 9.85	10.00	Yes
	802.11a	6 Mbps	117 149 185	6535 6695 6875	11.33 11.34 11.41	12.00	11.09 11.45 10.97	12.00	No	117 149 185		10.00		10.00	No
	802.11ax (HE20)	7.3 Mbps	117 149 185	6535 6695 6875	10.73 11.11 10.53	12.00	10.98 11.01 11.17	12.00	No	117 149 185		10.00		10.00	No
UNII 7 6.525 - 6.885 GHz)	802.11ax (HE40)	14.6 Mbps	123 147 179	6565 6685 6845	11.18 11.60 11.15	12.00	11.97 11.50 11.66	12.00	Yes	123 147 179		10.00		10.00	No
	802.11ax (HE80)	36.0 Mbps	119 151 183	6545 6705 6865	7.85 10.45 8.08	9.00 11.00 9.00	7.84 10.34 7.62	9.00 11.00 9.00	No	119 151 183		10.00		10.00	No
	802.11ax (HE160)	72.0 Mbps	143 175	6665 6825	10.35 8.66	11.00 9.00	10.36 8.52	11.00 9.00	No	143 175	8.33 9.25	10.00	9.80 9.32	10.00	Yes

Note(s):

Per TCB workshop April.2021's guide, SAR Test should be evaluated at least 5 channels in UNII 6-7GHz. For each Head, Body-worn and Product Specific 10-g, We evaluated SAR test of each 7 channels in UNII 6-7GHz.

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 \leq 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.

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10.1. WiFi (UNII Bands-Above 6GHz)

SAR test results

	RF Exposure		PWR	Dist.			Freq.	Duty		(dBm)	1-g SA	R (W/kg)	10-g SA	R (W/kg)	Ple
Antenna	Conditions	Mode	Back-off	(mm)	Test Position	Ch #.	(MHz)	Cycle (%)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No
					Left Touch	79	6345.0	99.65%	10.00	9.48	0.032	0.036			
					Left Tilt	79	6345.0	99.65%	10.00	9.48	0.033	0.037			
						15	6025.0	99.65%	10.00	8.76	0.038	0.051			
		200.44				47	6185.0	99.65%	10.00	9.41					
	Head	802.11ax HE160	On	0		79	6345.0	99.65%	10.00	9.48	0.054	0.061			
	riodd	72.0 Mbps	Oil		Right Touch	111	6505.0	99.65%	9.00	7.76	0.043	0.057			
						143	6665.0	99.65%	10.00	8.33	0.059	0.087			•
						175	6825.0	99.65%	10.00	9.25	0.051	0.061			
						207	6985.0	99.65%	9.00	8.50	0.050	0.056			
		<u> </u>		<u> </u>	Right Tilt	79 43	6345.0 6165.0	99.65% 99.67%	10.00 12.00	9.48 11.78	0.052	0.059 0.018			-
						91	6405.0	99.67%	12.00	11.78	0.017	0.016			
		802.11ax HE40			Rear	123	6565.0	99.67%	12.00	11.18	0.045	0.055			
		14.6 Mbps			, roui	147	6685.0	99.67%	12.00	11.60	0.071	0.078			
WLAN MIMO	Body-worn		Off	15		179	6845.0	99.67%	12.00	11.15	0.120	0.146			
Ant.1					Front	43	6165.0	99.67%	12.00	11.78	0.012	0.013			
		802.11ax	1			111	6505	99.65%	9.00	7.76	0.024	0.032			
		HE160			Rear	207	6985	99.65%	9.00	8.50	0.079	0.089			
		72.0 Mbps			Rear	43	6165.0	99.67%	12.00	11.78	0.010	0.000	0.086	0.091	┪
					Front	43	6165.0	99.67%	12.00	11.78			0.052	0.055	+
					Edge 1	43	6165.0	99.67%	12.00	11.78			0.041	0.043	╅
		802.11ax			Edge 2	43	6165.0	99.67%	12.00	11.78					
		HE40			- 3-	43	6165.0	99.67%	12.00	11.78			0.095	0.100	
	Product	14.6 Mbps	Off	_		91	6405.0	99.67%	12.00	11.38			0.092	0.106	
	Specific 10-g		Oll	0	Edge 4	123	6565.0	99.67%	12.00	11.18			0.122	0.148	
						147	6685.0	99.67%	12.00	11.60			0.143	0.157	1
						179	6845.0	99.67%	12.00	11.15			0.178	0.217	
		802.11ax	1			111	6505	99.65%	9.00	7.76			0.054	0.072	
		HE160			Edge 4	-							0.090	0.101	
		72.0 Mbps 207 6985 99.65% 9.00 8.50 Left Touch 79 6345.0 99.65% 10.00 9.85						I	0.090	0.101	-				
					Left Tilt	79	6345.0	99.65%	10.00	9.85					
					LOIC TIRE	15	6025.0	99.65%	10.00	9.45					
						47	6185.0	99.65%	10.00	9.36	0.021	0.024			
		802.11ax				79	6345.0	99.65%	10.00	9.85					
	Head	HE160 72.0 Mbps	On	0	Right Touch	111	6505.0	99.52%	9.00	8.36					
		72.0 WIDP3				143	6665.0	99.65%	10.00	9.80					
						175	6825.0	99.65%	10.00	9.32					
						207	6985.0	99.52%	9.00	8.11					
					Right Tilt	79	6345.0	99.65%	10.00	9.85					
						43	6165.0	99.67%	12.00	11.98					
		802.11ax				91	6405.0	99.67%	12.00	11.76					
		HE40			Rear	123	6565.0	99.67%	12.00	11.97					
WLAN	Body-worn	14.6 Mbps	Off	15		147	6685.0	99.67%	12.00	11.50					
MIMO	Body-wolli		Oil	15		179	6845.0	99.67%	12.00	11.66					
Ant.2		000 44av	1		Front	43	6165.0	99.67%	12.00	11.98					-
		802.11ax HE160			Rear	111	6505	99.65%	9.00	8.36					
		72.0 Mbps				207	6985	99.65%	9.00	8.11					
					Rear	43	6165.0	99.67%	12.00	11.98					
					Front	43	6165.0	99.67%	12.00	11.98					
					Edge 1	43	6165.0	99.67%	12.00	11.98					
		802.11ax			Edge 2	43	6165.0	99.67%	12.00	11.98			0.068	0.069	
	_	HE40				43	6165.0	99.67%	12.00	11.98					
	Product	14.6 Mbps	Off	0		91	6405.0	99.67%	12.00	11.76					
	Specific 10-g				Edge 4	123	6565.0	99.67%	12.00	11.97					
						147	6685.0	99.67%	12.00	11.50					
		200 11	4			179	6845.0	99.67%	12.00	11.66					
	-	802.11ax	1		l	111	6505	99.65%	9.00	8.36					
		HE160			Edge 4										333

APD (Absorbed Power Density) results

								Duty	Power	(dBm)	Measured	
Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Cycle	Tune-up		APD	Plot No.
	Conditions		Dack-Oil	(11111)			(1011 12)	(%)	limit	Meas.	(mW/cm^2 over 4cm^2)	NO.
					Left Touch	79	6345.0	99.65%	10.00	9.48	0.0209	
					Left Tilt	79	6345.0	99.65%	10.00	9.48	0.0218	
						15	6025.0	99.65%	10.00	8.76	0.0266	
		802.11ax				47	6185.0	99.65%	10.00	9.41	0.0250	
	Head	HE160	On	0	Right Touch	79 111	6345.0 6505.0	99.65% 99.65%	10.00	9.48	0.0356	
		72.0 Mbps			Right Touch	143	6665.0	99.65%	10.00			1
						175	6825.0	99.65%	10.00			<u>'</u>
						207	6985.0	99.65%	9.00			
					Right Tilt	79	6345.0	99.65%	10.00	9.48	0.0341	
						43	6165.0	99.67%	12.00	11.78	0.0149	
						91	6405.0	99.67%	12.00	11.38	0.0280	
		802.11ax HE40			Rear	123	6565.0	99.67%	12.00	11.18	0.0380	
WLAN	D. d	14.6 Mbps	0"	45		147	6685.0	99.67%	12.00	11.60	0.0557	
MIMO	Body-worn		Off	15		179	6845.0	99.67%	12.00	11.15	0.0977	2
Ant.1					Front	43	6165.0	99.67%	12.00	11.78	0.0105	
		802.11ax HE160			Rear	111	6505	99.65%	9.00	7.76	0.0214	
		72.0 Mbps		<u> </u>	- Koai	207	6985	99.65%	9.00	8.50	0.0641	
					Rear	43	6165.0	99.67%	12.00	11.78	0.2040	
					Front	43	6165.0	99.67%	12.00	11.78	0.1210	
					Edge 1	43	6165.0	99.67%	12.00	11.78	0.0965	
		802.11ax			Edge 2	43	6165.0	99.67%	12.00	11.78		
		HE40				43	6165.0	99.67%	12.00			
	Product Specific 10-g	14.6 Mbps	Off	0		91	6405.0	99.67%	12.00			
	Specific 10-g				Edge 4	123	6565.0	99.67%	12.00			ļ
						147	6685.0	99.67%	12.00			
		000.44	<u> </u>									3
	802.11ax HE160 72.0 Mbps			0.1290								
					9-	207	6985	99.65%	9.00	8.50	0.2140	
					Left Touch	79	6345.0	99.65%	10.00	9.85		
					Left Tilt	79	6345.0	99.65%	10.00	9.85		
						15	6025.0	99.65%	10.00			
		802.11ax				47	6185.0	99.65%	10.00		0.0148	
	Head	HE160	On	0	Diaht Tauah	79	6345.0	99.65%	10.00			
		72.0 Mbps			Right Touch	111 143	6505.0 6665.0	99.65% 99.65%	10.00			
						175	6825.0	99.65%	10.00			
						207	6985.0	99.65%	9.00			
					Right Tilt	79	6345.0	99.65%	10.00			
					- riigiii - iii	43	6165.0	99.67%	12.00			
						91	6405.0	99.67%	12.00	11.76		
		802.11ax			Rear	123	6565.0	99.67%	12.00	11.97		
WLAN		HE40 14.6 Mbps				147	6685.0	99.67%	12.00	11.50		
MIMO	Body-worn		Off	15		179	6845.0	99.67%	12.00	11.66		
Ant.2			ļ		Front	43	6165.0	99.67%	12.00	11.98		
		802.11ax HE160			Rear	111	6505	99.65%	9.00	8.36		
		72.0 Mbps		<u>L</u>	IVEGI	207	6985	99.65%	9.00	8.11		
					Rear	43	6165.0	99.67%	12.00	11.98		
					Front	43	6165.0	99.67%	12.00	11.98		
					Edge 1	43	6165.0	99.67%	12.00	11.98	0.0977 0.0105 0.0214 0.0641 0.2040 0.1210 0.0965 0.2310 0.2210 0.2930 0.3450 0.4330 0.1290	
		802.11ax			Edge 2	43	6165.0	99.67%	12.00	1.00		
	Dec de la	HE40 14.6 Mbps				43	6165.0	99.67%	12.00			
		14.0 IVIDPS	Off	0	Edes 4	91	6405.0	99.67%	12.00			
	HE				Edge 4	123	6565.0	99.67%	12.00			
						147 179	6685.0	99.67% 99.67%	12.00 12.00			
		802.11ax	†				6845.0					
		HE160			Edge 4	111	6505	99.65%	9.00			
		72.0 Mbps				207	6985	99.65%	9.00	8.11		

Note(s):

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

10.2. UWB

SAR test results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	10-g SAR (W/kg) Meas.	Plot No.
					Rear	5	6489.6	0.000	
1.04/5					Real	9	7987.2	0.000	
UWB Ant.1	Product	CW	N/A	0	Front	5	6489.6	0.000	
Ant.i	Specific 10-g	CVV	INA	U	FIOR	9 7987.2		0.000	4
			Edge 4 5 6489		6489.6	0.000			
					Euge 4	9	7987.2	0.000	
1 NA/ID					Rear	9	7987.2	0.002	5
UWB Ant.2	Product	CW	N/A	0	Front	nt 9 7987.2		0.002	
Ailt.2	Specific 10-g	CVV	14/74	J	Edge 1	9	7987.2	0.000	
					Edge 4	9	7987.2	0.000	

Note(s):

UWB Ant.1 has support to Ch.5 and Ch.9 and UWB Ant.2 has only support to Ch.9.

APD (Absorbed Power Density) results

Antenna	RF Exposure Conditions	Mode	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Measured A PD (mW/cm^2 over 4cm^2)	Plot No.
					Rear	5	6489.6	0.0018	
LIMA					Neai	9	7987.2	0.0017	
UWB Ant.1	Product	CW	N/A	0	Front	5	6489.6	0.0012	
Ant.i	Specific 10-g	CVV	INA		TIOII	9	7987.2	0.0022	4
					Edge 4	5	6489.6	0.0019	
					Luge 4	9	7987.2	0.0018	
1.0A/D					Rear	9	7987.2	0.0041	5
UWB Ant.2	Product	roduct CW N/A 0 Fro		Front	9	7987.2	0.0037		
AIII.2	Specific 10-g	CVV	IWA		Edge 1	9	7987.2	0.0023	
					Edge 4	9	7987.2	0.0017	

Note(s):

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

11. IPD(Incident Power density) Results

11.1. WiFi (UNII Bands-Above 6GHz)

Antenna	Mode	Test Position	Dist. (mm)	Ch.	Freq. (MHz)	Duty Cycle	Grid Step (Lamda)	iPD Note4 (mW/cm^2)	Power	(dBm)	Measured. Normal psPD	Measured. Total psPD	Reported. Normal psPD Note.3	Reported. Total psPD Note3	Scailing factor for Measurement Uncertainty per	Scaled Normal psPD	Scaled Total psPD	Note.	Plot
			()				(====	(Tune-up limit	Meas.	mW/cm^2	mW/cm^2	mW/cm^2	mW/cm^2	IEC 62479 Note2	mW/cm^2	mW/cm^2		
				43	6165.0	99.7%	0.05	0.0585	15.00	14.89	0.0937	0.1120	0.0961	0.1150	1.541	0.1481	0.1772	4	
				91	6405.0	99.7%	0.05	N/A	15.00	14.58	0.0873	0.1210	0.0961	0.1340	1.541	0.1481	0.2065		
		Rear		123	6565.0	99.7%	0.05	N/A	15.00	14.60	0.1080	0.1350	0.1180	0.1480	1.541	0.1818	0.2281		
WLAN				147	6685.0	99.7%	0.05	N/A	15.00	14.56	0.0848	0.1310	0.0938	0.1440	1.541	0.1445	0.2219		
MIMO	802.11ax		2.00	179	6845.0	99.7%	0.05	N/A	15.00	14.42	0.2150	0.2480	0.2460	0.2830	1.541	0.3791	0.4361		6
Ant.1 &	HE 40	Front		43	6165.0	99.7%	0.05	N/A	15.00	14.89	0.0647	0.0710	0.0663	0.0728	1.541	0.1022	0.1122		
Ant.2		Edge 1		43	6165.0	99.7%	0.05	N/A	15.00	14.89	0.0521	0.0567	0.0535	0.0582	1.541	0.0824	0.0897		
		Edge 2		43	6165.0	99.7%	0.05	N/A	15.00	14.89	0.0581	0.0722	0.0596	0.0741	1.541	0.0918	0.1142		
		Edge 4		43	6165.0	99.7%	0.05	N/A	15.00	14.89	0.0382	0.0494	0.0392	0.0506	1.541	0.0604	0.0780		
		Rear	9.73	43	6165.0	99.7%	0.05	0.0468	15.00	14.89	0.0184	0.0227	0.0189	0.0233	1.541	0.0291	0.0359	4	

Note(s):

- 1. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$
- 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 2.65 dB (84.1%) was used to determine the psPD measurement scalling factor.
- 3. Power density test data were scaled to tune-up limit using measurement system tool.
- 4. Per manufacturer guide, Incident power density was measured at d=2mm and d=Lamda/5mm using the same grid size and grid step size for some frequencies and surfaces. iPD(integrated Power Density) was calculated based on these measurements. Since iPD ratio between the two distance is < 1dB, the grid step was sufficient for determining compliance at d=2mm.

11.2. UWB

Antenna	Mode	Test Position	Dist. (mm)	Ch.	Freq. (MHz)	Grid Step (Lamda)	Meas. Normal psPD	Meas. Total psPD	Scailing factor for Measurement Uncertainty per	Scaled Normal psPD	Scaled Total ps PD	Note.	Plot No.
							m W/cm ^2	m W/cm ^2	IEC 62479 Note.2	m W/cm ^2	mW/cm^2		
		Rear		5	6489.60	0.05	0.0059	0.0062	1.541	0.0091	0.0096		
		ixeai		9	7987.20	0.05	0.0055	0.0056	1.541	0.0085	0.0086		
UWB		Front		5	6489.60	0.05	0.0026	0.0033	1.541	0.0040	0.0051		
Ant. 1		FIOIIL		9	7987.20	0.05	0.0040	0.0043	1.541	0.0062	0.0066		
	CW	Edge 4	2.00	5	6489.60	0.05	0.0070	0.0078	1.541	0.0108	0.0120		7
	CVV	Euge 4	2.00	9	7987.20	0.05	0.0052	0.0054	1.541	0.0080	0.0083		
		Rear		9	7987.20	0.05	0.0055	0.0063	1.541	0.0085	0.0097		8
UWB		Front		9	7987.20	0.05	0.0036	0.0040	1.541	0.0055	0.0062		
Ant. 2		Edge 1		9	7987.20	0.05	0.0036	0.0039	1.541	0.0055	0.0060		
		Edge 4		9	7987.20	0.05	0.0052	0.0055	1.541	0.0080	0.0085		

Note(s):

- 1. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$
- 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 2.65 dB (84.1%) was used to determine the psPD measurement scailing factor.

12. Simultaneous Transmission Analysis

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

Appendixes

Refer to separated files for the following appendixes.

4790541052-S2 FCC Report Above 6GHz_App A_PD Photos & Ant. Locations
4790541052-S2 FCC Report Above 6GHz_App B_Highest SAR and PD Test Plots
4790541052-S2 FCC Report Above 6GHz_App C_System Check Plots
4790541052-S2 FCC Report Above 6GHz_App D_SAR Tissue Ingredients
4790541052-S2 FCC Report Above 6GHz_App E_Probe Cal. Certificates
4790541052-S2 FCC Report Above 6GHz_App F_Dipole and Horn antenna Cal. Certificates

END OF REPORT