FCC WLAN 6GHz RF Exposure

Applicant : ASUSTeK COMPUTER INC.
Equipment : ASUS Phone (Mobile Phone)

Brand Name : ASUS

Model Name : ASUS_AI2205_E, ASUS_AI2205_F

FCC ID : MSQAI2205

Standard : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Si Zhang

IIAC-MRA



Report No.: FA2D3005B

Approved by: Si Zhang

Sporton International Inc. (Shenzhen)

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History of this test report

Report No.	Version	Description	Issued Date
FA2D3005B	01	Initial issue of report	Apr. 14, 2023

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for ASUSTEK COMPUTER INC., ASUS Phone (Mobile Phone), ASUS_AI2205_E, ASUS_AI2205_F, are as follows.

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	T. F.		Reported SAR		ı	Measured APD)	Scaled PD
Band	Tx Frequency (MHz)	Head	Body Worn (1g SAR W/kg)	Phablet (10g SAR W/kg)	Head (W/m^2)	Body Worn (W/m^2)	Phablet (W/m^2)	psPD (W/m^2)
WLAN 6GHz	5925-7125	1.01	0.21	0.70	4.43	1.25	11.3	7.53
Date	of Testing:	2023/2/27 ~ 2023/3/30						

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) and Power density exposure limits (1 mW/cm² = 10 W/m²) specified in FCC 47 CFR part 2 (2.1093), ANSI/IEEE C95.1-1992 and FCC 47 CFR Part1.1310, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

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2. Administration Data

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145 01

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	Testing Laboratory				
Test Firm	Sporton International Inc. (Shenzhen)				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595				
Sporton Site No. FCC Designation No. FCC Test Firm Registration					
Test Site No.	SAR02-SZ CN1256 421272				

Applicant Applicant		
Company Name	ASUSTeK COMPUTER INC.	
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan	

Manufacturer Manufacturer		
Company Name	ASUSTeK COMPUTER INC.	
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan	

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)
- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02

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4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification			
Equipment Name	ASUS Phone (Mobile Phone)		
Brand Name	ASUS		
Model Name			
	ASUS_AI2205_E, ASUS_AI2205_F		
FCC ID	MSQAI2205		
IMEI Code	Sample 1: SIM 1 : 355156850101230 SIM 2 : 355156850101248 Sample 2: SIM 1 : 350217060100936 SIM 2 : 350217060100944		
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band V: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1756 MHz LTE Band 4: 1710 MHz ~ 1756 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 17: 704 MHz ~ 176 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 2115 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2690 MHz LTE Band 38: 2570 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 2570 MHz SG NR n2: 1850 MHz ~ 2315 MHz SG NR n2: 1850 MHz ~ 2315 MHz SG NR n30: 2305 MHz ~ 2315 MHz SG NR n5: 824 MHz ~ 849 MHz SG NR n66: 1710 MHz ~ 180 MHz SG NR n66: 1710 MHz ~ 1910 MHz SG NR n66: 1710 MHz ~ 1910 MHz SG NR n66: 1710 MHz ~ 1910 MHz SG NR n72: 683 MHz ~ 2315 MHz SG NR n71: 663 MHz ~ 315 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n71: 2496 MHz ~ 2590 MHz SG NR n71: 2496 MHz ~ 2590 MHz SG NR n71: 2496 MHz ~ 2590 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n66: 1710 MHz ~ 1780 MHz SG NR n71: 663 MHz ~ 2500 MHz SG NR n71: 2496 MHz ~ 2500 MHz SG NR n71: 3450 MHz ~ 3550 MHz SG NR n71: 3550 MHz ~ 3500 MHz SG NR n71: 360 MHz ~ 3500 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5260 MHz ~ 5320 MHz WLAN 6GHz U-NII-7: 6525 MHz ~ 6425 MHz WLAN 6GHz U-NII-7: 6525 MHz ~ 6425 MHz WLAN 6GHz U-NII-7: 6525 MHz ~ 6425 MHz WLAN 6GHz U-NII-8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz		
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA		

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	DC-HSDPA HSPA+(16QAM uplink is not supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac/ax VHT20/VHT40/HE20/HE40 WLAN 2.4GHz 802.11be EHT20/EHT40 WLAN 5GHz/6GHz 802.11a/n HT20/HT40 WLAN 5GHz/6GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz/6GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz/6GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	R2.0
SW Version	Android 13
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
D I	

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Remark:

- 1. The 6GHz WLAN can transmit in SISO and MIMO mode.
- 2. The device implements receiver detect mechanism reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, extremity). It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for Wi-Fi antennas accordingly. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E power table.
- 3. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head exposure conditions.
- 4. The device has two bumpers. They have no metallic and do not contain any electronic circuitry. They have no effect on RF exposure, so no need to test with them.
- 5. There are four samples. The different between them can be referred to the following Sample list table. According to the differences, we choose sample 1 to perform full SAR testing and sample 2 to verify the worst case of sample 1. For sample 3/4, the differences do not affect the test, so sample 3/4 are not tested.

	Sample list					
	SKU1(Sample 1)	SKU2(Sample 2)	SKU3(Sample 3)	SKU4(Sample 4)		
Model name	ASUS_AI2205_F	ASUS_AI2205_E	ASUS_AI2205_F	ASUS_AI2205_E		
Config.	US(Pro)	US(Entry)	US(Pro)	US(Entry)		
RF module board	US(Pro)	US(Entry)	US(Pro)	US(Entry)		
LCD+Touch front frame	Al2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW		
DDR	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B		
UFS	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUFG8RHHD-B0G1	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUFG8RHHD-B0G1		
MB	AI2205_MB	AI2205_MB	Al2205_MB	AI2205_MB		
Back cover	WW-Dark-Ult	WW-Light-Entry	WW-Dark-Ult	WW-Light-Entry		
Battery	SCUD / C21P2101	SWD / C21P2101	SWD / C21P2101	SCUD / C21P2101		
Rear Camera 50+13M	SHINETECH/CDN60B	TRIPLEWIN/CASDA-002A1	TRIPLEWIN/CASDA-002A1	SHINETECH/CDN60B		
Front Camera 32M	TSPRECISION/TVHF2170	SHINETECH/ST-CMG07B	SHINETECH/ST-CMG07B	TSPRECISION/TVHF2170		
Rear Camera 5M	HUNAN KINGCOME/KBFE378	TSPRECISION/TV8F2224	TSPRECISION/TV8F2224	HUNAN KINGCOME/KBFE378		
PCB	COMPEQ	COMPEQ	COMPEQ	COMPEQ		
CPU	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS					

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4.2 Operating Mode for WLAN

General Note:

- 1. In order to get better user experience, the device implemented the dynamic antenna swapping which based on specific user interaction for WLAN bands.
- 2. The device has two using scenarios state, one is Normal Mode and the other is Camera Mode. Each mode will be triggered by different detection mechanism to realize the location exchanged by the antenna in different modes.
- 3. For normal mode, when the device is in default setting, the antenna for Chain1 is adapted on Ant4. For camera mode, when the device detect camera is active, the antenna for Chain1 is adapted on Ant6. Below table will summary of the relationship between mode, antenna location and detection mechanism.

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Mode	Antenna	Detection mechanism
IINORMAL MODE	Chain0 is adapted on Ant5 Chain1 is adapted on Ant4	Default setting
ICamera Mode	Chain0 is adapted on Ant5 Chain1 is adapted on Ant6	When the device Camera is active

For SAR report, the test mode mentioned as following table.

Bands	Head SAR	Body-worn SAR	Extremity SAR
WLAN/BT	Normal Mode	Normal Mode	Normal Mode
		Camera Mode	Camera Mode

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5. RF Exposure Limits

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

5.3 RF Exposure limit for below 6GHz

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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5.4 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310. The unit of power density evaluation is W/m² or mW/cm².

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
8.	(A) Limits for O	cupational/Controlled Expos	sures	W: 1111 142 21
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/1	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled I	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/1	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: 1.0 mW/cm² is 10 W/m²

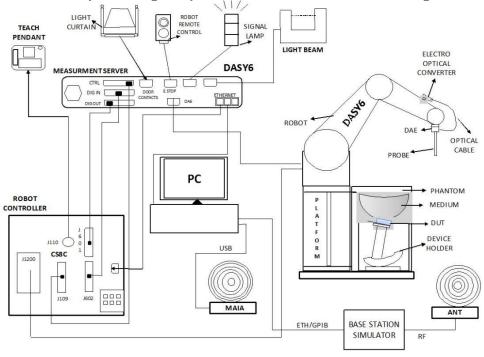
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6. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



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- 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 Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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7. Test Equipment List

	N (5)	- "	0 : 111 1	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1026	Jan. 29, 2021	Jan. 27, 2024
SPEAG	5G Verification Source	10GHz	2005	Dec. 07, 2022	Dec. 06, 2023
SPEAG	Data Acquisition Electronics	DAE4	1664	May 30, 2022	May 29, 2023
SPEAG	Data Acquisition Electronics	DAE4	1210	Apr. 12, 2022	Apr. 11, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3826	Aug. 08, 2022	Aug. 07, 2023
SPEAG	EUmmWV Probe	EUmmWV3	9424	Apr. 06, 2022	Apr. 05, 2023
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1670	NCR	NCR
Agilent	Network Analyzer	E5071C	MY46523671	Oct. 17, 2022	Oct. 16, 2023
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Feb. 20, 2023	Feb. 19, 2024
R&S	Spectrum Analyzer	FSV40	101893	Apr. 07, 2022	Apr. 06, 2023
Anymetre	Thermo-Hygrometer	JR593	2015030903	Dec. 30, 2022	Dec. 29, 2023
R&S	Signal Generator	SMB100A	175779	Dec. 28, 2022	Dec. 27, 2023
R&S	Power Sensor	NRP50S	101254	Apr. 07, 2022	Apr. 06, 2023
R&S	Power Sensor	NRP8S	109228	Apr. 07, 2022	Apr. 06, 2023
Anritsu	Power Sensor	MA2411B	1542004	Dec. 27, 2022	Dec. 26, 2023
Anritsu	Power Meter	ML2495A	1339473	Dec. 27, 2022	Dec. 26, 2023
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Weinschel	Attenuator 2	3M-20	N/A	Not	te 1
ET Industries	Dual Directional Coupler	C-058-10	N/A	Not	te 1
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Not	te 1
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4BMC1	Not	te 1
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Not	te 1
mini-circuits	Amplifier	ZVA-183W-S+	s+ 726202215 Note 1		

General Note:

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- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- 2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

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8. SAR System Verification

8.1 SAR Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18° C to 25° C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18° C to 25° C and within \pm 2° C of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

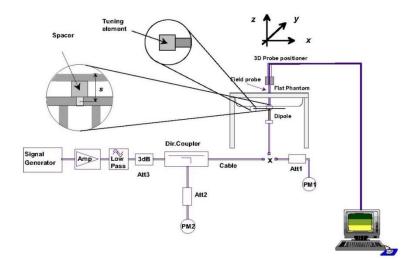
<Tissue Dielectric Parameter Check Results>

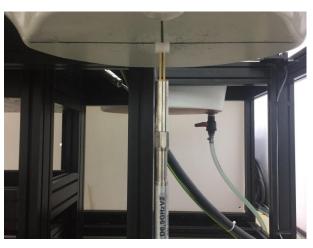
Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)		Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
6500	22.6	6.080	34.000	6.07	34.50	0.16	-1.45	±5	2023/3/28
6500	22.5	6.120	34.400	6.07	34.50	0.82	-0.29	±5	2023/3/30

8.2 SAR System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2023/3/28	6500	100	1026	3826	1664	27.800	290.000	278	-4.14
2023/3/30	6500	100	1026	3826	1664	27.500	290.000	275	-5.17





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System Performance Check Setup

Setup Photo

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FCC WLAN 6GHz RF Exposure

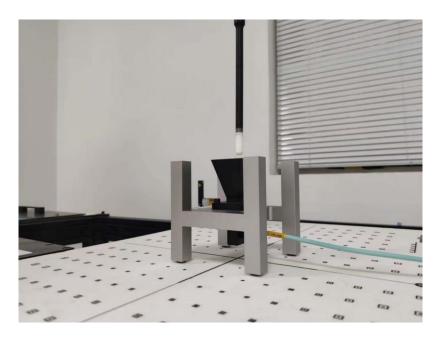
8.3 PD System Verification Results

The system was verified to be within ±0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

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Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4 cm^2 (W/m^2)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
10G	10GHz_2005	9424	1210	10mm	124	169	150	0.52	2023/2/27



System Verification Setup Photo

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9. RF Exposure Positions

9.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.



Fig 9.1.1 Front, back, and side views of SAM twin phantom

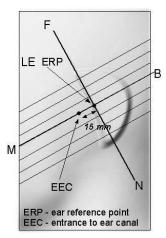
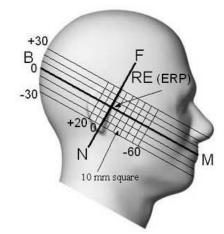


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

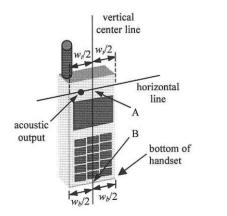
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9.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output: however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line. 6.
- While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

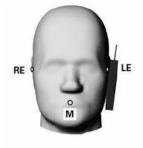


acoustic output bottom of handset

horizontal line

Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 9.2.2 Handset vertical and horizontal reference lines-"clam-shell case"







vertical

center line

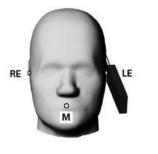
Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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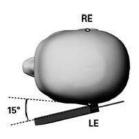


9.3 Definition of the tilt position

- 1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- 3. Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point







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Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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9.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. 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 handset attached to the handset.

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Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

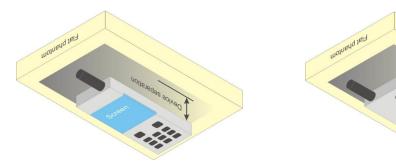


Fig 9.4 Body Worn Position

9.5 Product Specific/Extremity Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless mode and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- 2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. 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.

9.6 Miscellaneous Testing Considerations

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs. 648474 (handsets/phablets).
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)
 - Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

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10. WLAN 6GHz Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

General Note:

The 6GHz WLAN can transmit in SISO/MIMO antenna mode, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, SAR and PD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.

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- When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, 2. lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial 3. Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
- 4. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for
- 5. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
- 802.11a/be supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher 6. than full tone size power level, so chose full tone power to be measured in this report.
- When multiple transmission modes (802.11a/g/n/ac/ax/be) have the same specified maximum output power, largest channel 7. bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac then 802.11ax then 802.11be or 802.11g is chosen over 802.11n.

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11. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

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12. RF Exposure Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, 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
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
- Per KDB648474 D04v01r03, this device is considered a phablet since the display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm. Therefore, phablet SAR tests are required when wireless mode does not apply or if wireless router 1g SAR >1.2W/kg
- 6. For WLAN 6GHz doesn't support wireless router capability.
- 7. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
- 8. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
- Per October 2022 TCB Workshop, IPD and SAR test frequencies for 5.85-7.125 GHz portable devices, continue with adapt and apply conducted power-based channel picks and test reduction procedures of KDB 248227 (v02r02), also in case of 320 MHz (pre-802.11be).
- 10. Absorbed power density (APD) using a 4cm2 averaging area is reported based on SAR measurements.
- 11. Per FCC guidance, the WLAN 6GHz Sim-Tx analysis are using the SAR results with the conventional SPLSR etc procedures from KDB 447498 D01. And the Sim-Tx analysis result refer to Sporton SAR report no.: FA2D3005.

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FCC WLAN 6GHz RF Exposure

WLAN SAR Note:

1. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.

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- For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 3. The 6GHz WLAN can transmit in SISO/MIMO antenna mode, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO power to perform SAR testing. Per KDB 248227, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB 447498 by making a SAR measurement with both antennas transmitting simultaneously.
- 4. During SAR testing the WLAN 6GHz transmission was verified using a spectrum analyzer.
- 5. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel.
- 6. When multiple transmission modes (802.11a/g/n/ac/ax/be) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac then 802.11ax then 802.11be or 802.11g is chosen over 802.11n.

12.1 Head SAR Test Result

<WLAN SAR>

	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD W/m^2 (4cm^2)
					N	orma	al Mode										
WLAN6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+4	Rec on	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.05	0.514	0.763	3.97
WLAN6GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+4	Rec on	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.06	0.434	0.644	3.31
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.05	0.681	1.010	4.43
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	143	6665	2	15.80	17.50	1.478	99.63	1.004	0.04	0.333	0.494	2.45
WLAN6GHz AeroActive cooler	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.07	0.602	0.893	3.82
WLAN6GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4	Rec on	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.01	0.522	0.774	4.25
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	15	6025	1	13.74	15.50	1.501	99.63	1.004	-0.1	0.382	0.576	3.08
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	47	6185	1	13.53	15.50	1.573	99.63	1.004	-0.04	0.462	0.730	3.7
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	111	6505	1	14.88	16.50	1.451	99.63	1.004	0.03	0.542	0.789	4.36
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on	207	6985	1	13.47	15.00	1.424	99.63	1.004	-0.04	0.248	0.354	2.19
WLAN6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+4	Rec on Simultaneous	143	6665	1	12.37	14.00	1.455	99.63	1.004	0.11	0.118	0.172	0.949
WLAN6GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+4	Rec on Simultaneous	143	6665	1	12.37	14.00	1.455	99.63	1.004	0.12	0.116	0.170	0.893
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on Simultaneous	143	6665	1	12.37	14.00	1.455	99.63	1.004	-0.07	0.277	0.405	1.76
WLAN6GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4	Rec on Simultaneous	143	6665	1	12.37	14.00	1.455	99.63	1.004	0.04	0.169	0.247	1.26
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on Simultaneous	15	6025	1	10.20	12.00	1.514	99.63	1.004	-0.11	0.113	0.172	0.812
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on Simultaneous	47	6185	1	9.77	12.00	1.671	99.63	1.004	0.15	0.121	0.203	0.906
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4		111	6505	1	11.74	13.00	1.337	99.63	1.004	-0.07	0.206	0.276	1.53
WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4	Rec on Simultaneous	207	6985	1	10.17	11.50	1.358	99.63	1.004	0.07	0.068	0.093	0.588
	WLAN6GHZ	WLAN6GHZ 802.11ac-VHT160 MCS0 WLAN6GHZ 802.11ac-VHT160 MCS0	WLANGGHZ 802.11ac-VHT160 MCS0 Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Right Tilted WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Left Tilted WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Right Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Right Tilted WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek	WLANGGHZ 802.11ac-VHT160 MCS0 Right Tilted Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Cheek Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Cheek Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Cheek Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Tilted Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Cheek Omm WLANGGHZ 802.11ac-VHT160 MCS0 Right Cheek Omm WLANGGHZ 802.11ac-VHT160 MCS0 Right Tilted Omm WLANGGHZ 802.11ac-VHT160 MCS0 Left Cheek Omm	WLANGGHZ 802.11ac-VHT160 MCS0 Right Tilted Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Right Cheek Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Right Tilted Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0 Left Cheek Omm Ant 5+4 WLAN6GHZ 802.11ac-VHT160 MCS0	WLAN6GHz 802.11ac-VHT160 MCS0 Right Cheek Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Right Tilted 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Right Tilted 0mm Ant 5+4 Rec on WLAN6GHz 802.11ac-VHT160 MCS0 Left Cheek 0mm Ant 5+4 Rec on WLAN6GHz	WLAN6GHz 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 Issued Date: Apr. 14, 2023

 FCC ID: MSQAI2205
 Report Template No.: 200414



12.2 Body Worn SAR Test Result

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)		Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD W/m^2 (4cm^2)
							1	Normal	Mode									
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+4	Rec off	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.06	0.106	0.157	1.07
02	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.04	0.144	0.214	1.25
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	143	6665	2	15.80	17.50	1.478	99.63	1.004	-0.01	0.079	0.117	0.748
	WLAN6GHz - AeroActive cooler	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.07	0.028	0.042	0.189
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	15	6025	1	13.74	15.50	1.501	99.63	1.004	0.06	0.055	0.083	0.563
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	47	6185	1	13.53	15.50	1.573	99.63	1.004	0.13	0.051	0.081	0.493
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	111	6505	1	14.88	16.50	1.451	99.63	1.004	-0.07	0.114	0.166	1.09
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+4	Rec off	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.04	0.067	0.096	0.594
							(Camera	Mode									
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6	Rec off	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.18	0.113	0.148	1.03
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+6	Rec off	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.03	0.058	0.076	0.513
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6	Rec off	15	6025	1	11.93	13.50	1.436	99.81	1.002	-0.06	0.033	0.047	0.351
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6	Rec off	47	6185	1	11.77	13.50	1.491	99.81	1.002	0.11	0.028	0.042	0.318
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6	Rec off	111	6505	1	12.55	14.00	1.397	99.81	1.002	-0.04	0.034	0.048	0.35
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6	Rec off	143	6665	1	12.78	14.00	1.324	99.81	1.002	-0.01	0.037	0.049	0.377

12.3 Product Specific SAR Test Result

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cuala	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD W/m^2 (4cm^2)
							Nor	mal Mo	de									
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.06	0.340	0.504	8.49
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.02	0.263	0.390	6.59
03	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.04	0.474	0.703	11.3
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	143	6665	2	15.80	17.50	1.478	99.63	1.004	0.04	0.187	0.277	4.67
	WLAN6GHz - AeroActive cooler	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.04	0.289	0.429	6.33
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	-0.05	0.135	0.200	3.38
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	15	6025	1	13.74	15.50	1.501	99.63	1.004	0.14	0.237	0.357	5.94
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	47	6185	1	13.53	15.50	1.573	99.63	1.004	0.13	0.253	0.400	6.32
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	111	6505	1	14.88	16.50	1.451	99.63	1.004	0.12	0.315	0.459	7.88
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+4	Full	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.07	0.245	0.350	6.12
							Can	nera Mo	de									
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.11	0.288	0.377	7.21
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.11	0.098	0.128	2.46
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.08	0.089	0.116	2.22
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.08	0.366	0.479	9.15
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.06	0.023	0.030	0.565
	WLAN6GHz	802.11ac-VHT160 MCS0	Bottom Side	0mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.81	1.002	0.01	0.026	0.034	0.64
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6	Full	15	6025	1	11.93	13.50	1.436	99.81	1.002	0.15	0.206	0.296	5.15
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6	Full	47	6185	1	11.77	13.50	1.491	99.81	1.002	0.07	0.216	0.323	5.4
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6	Full	111	6505	1	12.55	14.00	1.397	99.81	1.002	0.15	0.223	0.312	5.58
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6	Full	143	6665	1	12.78	14.00	1.324	99.81	1.002	0.03	0.181	0.240	4.53

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12.4 PD Test Result

Power Density General Notes:

The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.

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- 2. Batteries are fully charged at the beginning of the measurements.
- Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by λ/4.
- The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
- Per April 2021 TCB Workshop, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
- Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover all exposure conditions of phablet.
- 9. IPD is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or
- 10. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and λ/5. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is≥ -1dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \ge -1$$

<WLAN PD>

Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)		Grip Step (λ)	iPD (W/m^2)	iPD ratio (≥ -1)		Total psPD(W/m^2)
					Nor	mal N	/lode						
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	15	6025	13.74	0.0625	1.95	-0.81	1.92	2.28
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	10mm	Ant 5+4	Full	15	6025	13.74	0.25	2.35	-0.81	0.515	0.64
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	207	6985	13.47	0.0625	2.83	-0.82	2.8	3.39
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	8.59mm	Ant 5+4	Full	207	6985	13.47	0.25	3.42	-0.82	0.985	1.13
					Carr	era I	Mode						
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	15	6025	11.93	0.0625	1.57	0.50	1.92	2.42
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	10mm	Ant 5+6	Full	15	6025	11.93	0.25	1.8	-0.59	0.541	0.61
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	207	6985	13.84	0.0625	2.49	0.97	2.56	3.03
WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	8.59mm	Ant 5+6	Full	207	6985	13.84	0.25	3.04	-0.87	1.32	1.43

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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grip Step (λ)	Scaling Factor for measurement uncertainty	Power Drift (dB)	Normal psPD (W/m^2)	Scaled Normal psPD (W/m^2)	Total psPD (W/m^2)	Scaled Total psPD (W/m^2)
										Normal	Mode										
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	15	6025	1	13.74	15.50	1.501	99.63	1.004	0.0625	1.5535	-0.08	1.92	4.49	2.28	5.34
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	47	6185	1	13.53	15.50	1.573	99.63	1.004	0.0625	1.5535	-0.03	2.31	5.67	2.91	7.14
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	111	6505	1	14.88	16.50	1.451	99.63	1.004	0.0625	1.5535	-0.1	1.45	3.28	1.94	4.39
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	143	6665	1	15.80	17.50	1.478	99.63	1.004	0.0625	1.5535	0.18	1.94	4.47	2.73	6.29
01	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.0625	1.5535	0.09	2.8	6.22	3.39	7.53
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+4	Full	207	6985	2	13.47	15.00	1.424	99.63	1.004	0.0625	1.5535	0.13	2.11	4.68	2.32	5.15
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	2mm	Ant 5+4	Full	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.0625	1.5535	0.1	1.31	2.91	1.52	3.37
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 5+4	Full	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.0625	1.5535	0.09	0.799	1.77	0.833	1.85
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	2mm	Ant 5+4	Full	207	6985	1	13.47	15.00	1.424	99.63	1.004	0.0625	1.5535	-0.01	0.279	0.62	0.336	0.75
	l .		ı							Camera	Mode										
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	15	6025	1	11.93	13.50	1.436	99.63	1.004	0.0625	1.5535	0.03	1.92	4.30	2.42	5.42
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	47	6185	1	11.77	13.50	1.491	99.63	1.004	0.0625	1.5535	0.15	0.809	1.88	1.39	3.23
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	111	6505	1	12.55	14.00	1.397	99.63	1.004	0.0625	1.5535	-0.02	1.24	2.70	1.41	3.07
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	143	6665	1	12.78	14.00	1.324	99.63	1.004	0.0625	1.5535	0.09	1.93	3.99	2	4.13
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	0.16	2.56	5.22	3.03	6.17
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 5+6	Full	207	6985	2	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	-0.14	1.6	3.26	1.86	3.79
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	2mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	-0.14	1.51	3.08	1.64	3.34
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	-0.16	0.345	0.70	0.408	0.83
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	2mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	0.03	0.416	0.85	0.481	0.98
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	2mm	Ant 5+6	Full	207	6985	1	13.84	15.00	1.306	99.63	1.004	0.0625	1.5535	-0.06	0.352	0.72	0.38	0.77

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13. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

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Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

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Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 4 MHz - 10 GHz range)										
Error Description	Uncert. Value (±%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)			
Measurement System errors										
Probe calibration	18.6	N	2	1	1	9.3	9.3			
Probe calibration drift	1.7	R	1.732	1	1	1.0	1.0			
Probe linearity and detection Limit	4.7	R	1.732	1	1	2.7	2.7			
Broadband signal	2.8	R	1.732	1	1	1.6	1.6			
Probe isotropy	7.6	R	1.732	1	1	4.4	4.4			
Other probe and data acquisition errors	2.4	N	1	1	1	2.4	2.4			
RF ambient and noise	1.8	N	1	1	1	1.8	1.8			
Probe positioning errors	0.006	N	1	0.5	0.5	0.0	0.0			
Data processing errors	4.0	N	1	1	1	4.0	4.0			
Phantom and Device Errors										
Measurement of phantom conductivity (σ)	2.5	N	1	0.78	0.71	2.0	1.8			
Temperature effects (medium)	5.4	R	1.732	0.78	0.71	2.4	2.2			
Shell permittivity	14.0	R	1.732	0.5	0.5	4.0	4.0			
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0			
Repeatability of positioning the DUT or source against the phantom	1.0	N	1	1	1	1.0	1.0			
Device holder effects	3.6	N	1	1	1	3.6	3.6			
Effect of operating mode on probe sensitivity	2.4	R	1.732	1	1	1.4	1.4			
Time-average SAR	1.7	R	1.732	1	1	1.0	1.0			
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5			
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0			
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0			
Correction to the SAR results										
Phantom deviation from target (ϵ', σ)	1.9	N	1	1	0.84	1.9	1.6			
SAR scaling	0.0	R	1.732	1	1	0.0	0.0			

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14.5%

K=2

29.0%

14.4%

K=2

28.8%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

Combined Std. Uncertainty

Coverage Factor for 95 %

Expanded STD Uncertainty

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cDASY6 Module mmWave Uncertainty Budget Evaluation Distances to the Antennas > $\lambda/2\pi$ In Compliance with IEC TR 63170

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in Compliance with IEC 1R 63170											
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)						
Uncertainty terms dep endent on the measurement system											
Probe Calibration	0.49	N	1	1	0.49						
Probe correction	0.00	R	1.732	1	0.00						
Frequency response	0.20	R	1.732	1	0.12						
Sensor cross coupling	0.00	R	1.732	1	0.00						
Isotropy	0.50	R	1.732	1	0.29						
Linearity	0.20	R	1.732	1	0.12						
Probe scattering	0.00	R	1.732	1	0.00						
Probe positioning offset	0.30	R	1.732	1	0.17						
Probe positioning repeatability	0.04	R	1.732	1	0.02						
Sensor mechanical offset	0.00	R	1.732	1	0.00						
Probe spatial resolution	0.00	R	1.732	1	0.00						
Field impedance dependence	0.00	R	1.732	1	0.00						
Amplitude and phase drift	0.00	R	1.732	1	0.00						
Amplitude and phase noise	0.04	R	1.732	1	0.02						
Measurement area truncation	0.00	R	1.732	1	0.00						
Data acquisition	0.03	N	1	1	0.03						
Sampling	0.00	R	1.732	1	0.00						
Field reconstruction	2.00	R	1.732	1	1.15						
Forward transformation	0.00	R	1.732	1	0.00						
Power density scaling	0.00	R	1.732	1	0.00						
Spatial averaging	0.10	R	1.732	1	0.06						
System detection limit	0.04	R	1.732	1	0.02						
Uncertainty terms dep endent on the DUT and environmental factors											
Probe coupling with DUT	0.00	R	1.732	1	0.0						
Modulation response	0.40	R	1.732	1	0.2						
Integration time	0.00	R	1.732	1	0.0						
Response time	0.00	R	1.732	1	0.0						
Device holder influence	0.10	R	1.732	1	0.1						
DUT alignment	0.00	R	1.732	1	0.0						
RF ambient conditions	0.04	R	1.732	1	0.0						
Ambient reflections	0.04	R	1.732	1	0.0						
Immunity / secondary reception	0.00	R	1.732	1	0.0						
Drift of the DUT		R	1.732	1							
Combined Std. Uncertainty 1.34 Expanded STD Uncertainty (95%) 2.68											
Expanded STD Uncertainty (95%)											

PD Uncertainty Budget

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