

FCC WLAN 6GHz RF Exposure

Applicant	:	Motorola Mobility LLC
Equipment	:	Mobile Cellular Phone
Brand Name	:	Motorola
Model Name	:	XT2407-2
FCC ID	:	IHDT56AS3
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

Approved by: Si Zhang



Sporton International Inc. (Shenzhen) 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China



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Report No.	Version	Description	Issued Date
FA441212C	01	Initial issue of report.	Jun. 03, 2024
FA441212C	02	Updated the description of the Power State column in the tables in Section 12 and appendix E	Jun. 04, 2024

History of this test report



1. <u>Statement of Compliance</u>

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC**, **Mobile Cellular Phone**, **XT2407-2**, are as follows.

	Reported SAR		Measured APD			Scaled PD		
Band	Tx Frequency (MHz)	Head (1g SAR W/kg)	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	0.45	0.37	0.38	2.04	1.85	6.05	7.97
Date	of Testing:	2024/5/12~ 2024/5/20						

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.



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.

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				
Toot Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	SAR02-SZ	CN1256	421272		

Applicant				
Company Name Motorola Mobility LLC				
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA			

Manufacturer				
Company Name Motorola Mobility LLC				
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA			

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
- 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
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)



4. Equipment Under Test (EUT) Information

4.1 General Information

	Product Feature & Specification			
Equipment Name	Mobile Cellular Phone			
Brand Name	Motorola			
Model Name	XT2407-2			
FCC ID	IHDT56AS3			
IMEI Code	Sample1 IMEI1: 358858730016291 IMEI2: 358858730016309 Sample2 IMEI1: 358858730016275 IMEI2: 358858730016283			
Wireless Technology and Frequency Range	WLAN U-NII 5: 5925 MHz ~ 6425 MHz WLAN U-NII 6: 6425 MHz ~ 6525 MHz WLAN U-NII 7: 6525 MHz ~ 6875 MHz WLAN U-NII 8: 6875 MHz ~ 7125 MHz			
Mode	WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160			
HW Version	DVT2			
SW Version	U3UW34.46			
EUT Stage	Identical Prototype			
Remark:				

1. The 6GHz WLAN can transmit in MIMO antenna mode only.

 There are two samples, the different between them refer to the XT2407-2_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, so sample 1 was chosen to perform full SAR testing and sample 2 verified the worst case of sample 1.



5. <u>RF Exposure Limits</u>

5.1 Uncontrolled Environment

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

5.2 Controlled Environment

0.08

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

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

Limits for Occupational/Controlled Exposure (W/kg)

Limits for General Population/Uncontrolled Exposure (W/kg)				
Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles		

1.6

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram 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.

4.0



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.

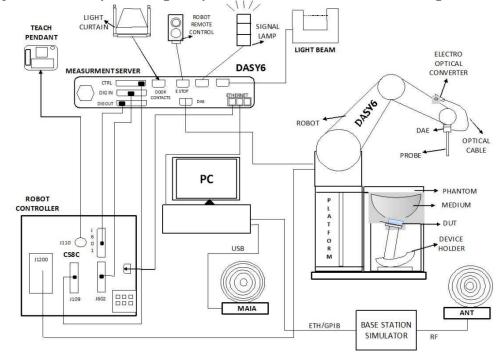
Peak Spatially Averaged Power Density was evaluated over a square area of 4cm2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
no hi	(A) Limits for O	ccupational/Controlled Expo	sures	
0.3-3.0	614	4 1.6	3 *(100)	6
3.0-30	1842/	(f 4.89)	/f *(900/f2)	6
30-300	61.4	4 0.163	3 1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3- <mark>1</mark> .34	614	4 1.6	3 *(100)	30
1.34-30	824/	(f 2.19)	/f *(180/f2)	30
30-300	27.5	5 0.07:	3 0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: 1.0 mW/cm² is 10 W/m²

6. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, 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⁽¹⁾ 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. Note: 1 DASY6 software used: DASY6 mmWave V3 0 0 841 and older generations and used the develope
- Note: 1. DASY6 software used: DASY6 mmWave V3.0.0.841 and older generations and used the developed Plane-to-Plane Phase Reconstruction (PTP-PR) Algorithm which was used in PD measurement.



7. Test Equipment List

Manufacture		Turne/Medel		Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1026	Jan. 25, 2024	Jan. 23, 2027
SPEAG	5G Verification Source	10GHz	2002	Feb. 12, 2024	Feb. 11, 2025
SPEAG	Data Acquisition Electronics	DAE4	1664	Jun. 06, 2023	Jun. 05, 2024
SPEAG	Data Acquisition Electronics	DAE4	1437	Mar. 14, 2024	Mar. 13, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7577	Dec. 13, 2023	Dec. 12, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9432	Dec. 13, 2023	Dec. 12, 2024
SPEAG	mmWave Phantom	mmWave	N/A	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P41 AA	2033	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anymetre	Thermo-Hygrometer	JR593	2015102801	Jan. 02, 2024	Jan. 01, 2025
R&S	Signal Generator	SMB100A	175779	Dec. 27, 2023	Dec. 26, 2024
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 16, 2023	Oct. 15, 2024
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Feb. 19, 2024	Feb. 18, 2025
TES	Hygrometer	1310	200505600	Jul. 08, 2023	Jul. 07, 2024
R&S	Power Sensor	NRP50S	101254	Apr. 08, 2024	Apr. 07, 2025
R&S	Power Sensor	NRP8S	109228	Apr. 08, 2024	Apr. 07, 2025
R&S	Spectrum Analyzer	FSV40	101164	Dec. 28, 2023	Dec. 27, 2024
SPEAG	Device Holder	N/A	N/A	N/A	N/A
ET Industries	Dual Directional Coupler	C-058-10	N/A	Not	te 1
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Not	te 1
mini-circuits	Amplifier	ZVA-183W-S+	726202215	Note 1	
Mini-Circuits	Amplifier	ZVE-3W-83+	599201528	Note 1	
Weinschel	Attenuator 2	3M-20	N/A	Note 1	
Jinkexinhua	Attenuator	10db-8G	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Not	te 1
MCL	Attenuation3	BW-S10W5+	N/A	Not	te 1

General Note:

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.

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.



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 $\pm 2^{\circ}$ 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>

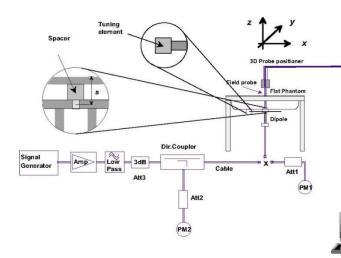
Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)		Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
6500	22.5	6.080	34.000	6.07	34.50	0.16	-1.45	±5	2024/5/20

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 (%)
2024/5/20	6500	100	1026	7577	1664	30.000	295.000	300	1.69

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/5/20	6500	100	1026	7577	1664	5.610	54.300	56.1	3.31





System Performance Check Setup

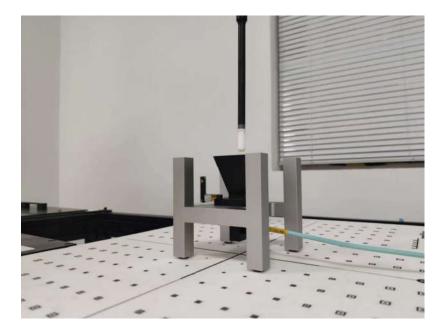
Setup Photo



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.

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	2002	9432	1437	10	138	178	179	-0.02	2024/5/12



System Verification Setup Photo



9. <u>RF Exposure Positions</u>

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.

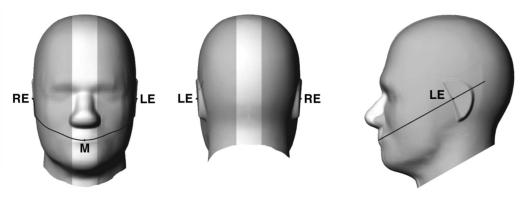


Fig 9.1.1 Front, back, and side views of SAM twin phantom

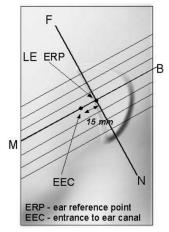


Fig 9.1.2 Close-up side view of phantom showing the ear region.

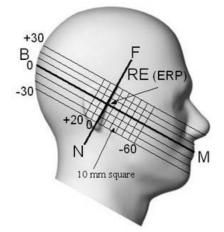
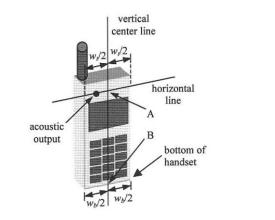


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations



9.2 Definition of the cheek 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. 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.
- 3. 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.
- 4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 5. 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.
- 6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. 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.



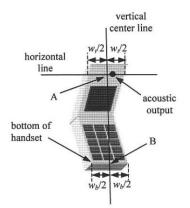


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

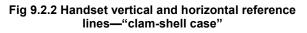




Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.



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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



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.



9.4 <u>Body Worn Accessory</u>

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.

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.

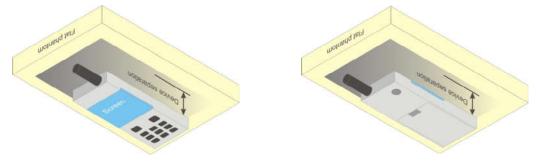


Fig 9.4 Body Worn Position

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 \leq 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)



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

The detailed conducted power table can refer to Appendix E.

General Note:

- 1. WLAN 6GHz operations are limited to MIMO operations only (does not supported standalone mode), SAR and PD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
- 2. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, 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 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 testing
- 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
- 6. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.



11. Antenna Location

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



12. <u>RF Exposure Test Results</u>

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.
 - 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
 - ≤ 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
 - \leq 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is \geq 200 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.
- 9. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- 10. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.
- 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.: FA441212.

WLAN SAR Note:

- 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.
- 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.
- WLAN 6GHz operations are limited to MIMO operations only (does not supported standalone mode) 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/ax) 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 802.11ax.



12.1 <u>Head SAR Test Result</u>

<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	Cycle		Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.04	0.131	0.198	1.24
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.13	0.125	0.189	1.15
01	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.03	0.301	0.454	2.04
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(8)	full	15	6025	2	10.76	12.50	1.491	98.77	1.012	0.11	0.268	0.405	2.01
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.13	0.223	0.337	1.95
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(8)	full	47	6185	1	9.23	11.00	1.502	98.77	1.012	-0.16	0.182	0.277	1.5
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(7)	full	111	6505	1	9.01	11.00	1.580	98.77	1.012	0.08	0.187	0.299	1.52
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(7)	full	143	6665	1	9.97	11.50	1.421	98.77	1.012	0.11	0.187	0.269	1.45
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 8+7(8)	full	207	6985	1	7.90	9.50	1.444	98.77	1.012	0.11	0.126	0.184	1.02

12.2 Body Worn 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			Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	5mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	0.14	0.117	0.177	0.99
02	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.1	0.248	0.374	1.85
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(8)	full	15	6025	2	10.76	12.50	1.491	98.77	1.012	0.08	0.209	0.315	1.69
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(8)	full	47	6185	1	9.23	11.00	1.502	98.77	1.012	0.16	0.138	0.210	1.28
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(7)	full	111	6505	1	9.01	11.00	1.580	98.77	1.012	0.01	0.231	0.369	1.76
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(7)	full	143	6665	1	9.97	11.50	1.421	98.77	1.012	0.04	0.170	0.244	1.53
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 8+7(8)	full	207	6985	1	7.90	9.50	1.444	98.77	1.012	-0.09	0.126	0.184	1.11

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)		Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.06	0.130	0.196	3.25
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.07	0.116	0.175	2.81
03	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	-0.09	0.254	0.383	6.05
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(8)	full	15	6025	2	10.76	12.50	1.491	98.77	1.012	0.05	0.227	0.343	5.97
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 8+7(8)	full	15	6025	1	10.76	12.50	1.491	98.77	1.012	0.04	0.174	0.263	4.35
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(8)	full	47	6185	1	9.23	11.00	1.502	98.77	1.012	-0.16	0.160	0.243	3.99
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(7)	full	111	6505	1	9.01	11.00	1.580	98.77	1.012	0.17	0.238	0.381	5.98
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(7)	full	143	6665	1	9.97	11.50	1.421	98.77	1.012	0.09	0.207	0.298	5.17
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 8+7(8)	full	207	6985	1	7.90	9.50	1.444	98.77	1.012	-0.08	0.201	0.294	5.03

12.4 <u>PD Test Result</u>

Power Density General Notes:

- 1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 2. Batteries are fully charged at the beginning of the measurements.
- 3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- 4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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 edge.
- 10. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
- 11. 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>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Dower	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m^2)	Total psPD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	15	6025	10.76	0.0625	2.28	0.25	2.68	3.4
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	10mm	Ant 8+7(8)	full	15	6025	10.76	0.15	2.15	0.25	0.999	1.13
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	207	6985	7.90	0.0625	1.59	-0.75	1.74	2.16
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	8.59mm	Ant 8+7(8)	full	207	6985	7.90	0.15	1.89	-0.75	0.774	0.812

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Limit	Tune-up Scaling Factor	Cycle	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Drift	Normal psPD (W/m^2)	Scaled Normal psPD (W/m^2)	psPD	Scaled Total psPD (W/m^2)
01	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	1	15	6025	10.76	12.50	1.491	98.77	1.012	0.0625	1.5535	0.04	2.68	6.28	3.4	7.97
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	2	15	6025	10.76	12.50	1.491	98.77	1.012	0.0625	1.5535	-0.05	1.21	2.84	1.64	3.85
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	1	47	6185	9.23	11.00	1.502	98.77	1.012	0.0625	1.5535	0.05	1.04	2.46	1.85	4.37
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(7)	full	1	111	6505	9.01	11.00	1.580	98.77	1.012	0.0625	1.5535	-0.04	1.15	2.86	1.63	4.05
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(7)	full	1	143	6665	9.97	11.50	1.421	98.77	1.012	0.0625	1.5535	-0.03	2.15	4.80	2.84	6.35
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 8+7(8)	full	1	207	6985	7.90	9.50	1.444	98.77	1.012	0.0625	1.5535	0.01	1.74	3.95	2.16	4.90
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 8+7(8)	full	1	15	6025	10.76	12.50	1.491	98.77	1.012	0.0625	1.5535	-0.07	1.57	3.68	3	7.03
	WLAN6GHz	802.11ax-HE160 MCS0	Back	2mm	Ant 8+7(8)	full	1	15	6025	10.76	12.50	1.491	98.77	1.012	0.0625	1.5535	0.02	1.23	2.88	1.65	3.87
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	2mm	Ant 8+7(8)	full	1	15	6025	10.76	12.50	1.491	98.77	1.012	0.0625	1.5535	0.03	1.76	4.13	2.35	5.51

Test Engineer : Hank Huang, Kevin Xu, David Dai, Bin He



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.

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.



	Uncer According to equency band		209-1528	le)								
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	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	Ν	1	1	0.84	1.9	1.6					
SAR scaling	0.0	R	1.732	1	1	0.0	0.0					
	l Std. Uncerta					14.5%	14.4%					
Coverage	e Factor for 95	5 %				K=2	K=2					
Expanded	Expanded STD Uncertainty											

SAR Uncertainty Budget for frequency range 4MHz to 10GHz



Report No. : FA441212C

	Y6 Module mmWave U uation Distances to the In Compliance with IE	Antennas > λ/			
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Uncertainty terms dep endent on the m	easurement system		1		
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 D	UT and environmental	factors	<u> </u>		I
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	
	bined Std. Uncertainty				1.34
	ed STD Uncertainty (9				2.68

PD Uncertainty Budget



14. <u>References</u>

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