

Report No.: SEWM2309000386RG09

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# FCC SAR TEST REPORT Part1

Application No.: SEWM2309000386RG

**Applicant:** Xiaomi Communications Co., Ltd. **Manufacturer:** Xiaomi Communications Co., Ltd.

Product Name: Mobile Phone Model No.(EUT): 23113RKC6G

Trade Mark: POCO

FCC ID: 2AFZZRKC6G

Standards: FCC 47CFR §2.1093

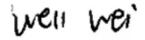
**Date of Receipt:** 2023-09-20

**Date of Test:** 2023-09-22 to 2023-11-17

Date of Issue: 2023-11-17
Test conclusion: PASS \*

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei

Wireless Laboratory Manager



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#### **REVISION HISTORY**

Report Number	Revision	Description	Issue Date
SEWM2309000386RG09	01	Original	2023-11-17



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# **TEST SUMMARY**

Fraguency Band	Maximum Reported SAR(W/kg)					
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR		
GSM850	0.84	0.30	0.28	/		
GSM1900	0.57	0.21	0.70	/		
WCDMA Band II	0.11	0.48	0.75	/		
WCDMA Band IV	1.09	0.48	1.05	/		
WCDMA Band V	0.49	0.43	0.49	/		
LTE Band 2	1.01	0.46	0.79	/		
LTE Band 4	0.92	0.55	0.79	/		
LTE Band 5	0.71	0.47	0.45	/		
LTE Band 7	1.08	0.61	0.54	/		
LTE Band 41(38)	0.97	0.29	0.54	/		
LTE Band 48	0.85	0.42	0.61	/		
LTE Band 66	0.92	0.55	0.79	/		
NR Band n2	0.55	0.52	0.90	/		
NR Band n5	0.85	0.57	0.43	/		
NR Band n7	0.91	0.55	0.45	/		
NR Band n41(38)	0.89	1.08	0.64	/		
NR Band n48	0.84	0.98	0.74	/		
NR Band n77	0.96	0.95	0.92	/		
NR Band n78	0.78	0.93	0.92	/		
WI-FI (2.4GHz)	1.00	0.51	0.25	2.59		
WI-FI (5GHz)	0.99	0.39	0.25	2.58		
BT	0.13	0.12	0.13	/		
NFC	1	1	/	<0.1		
SAR Limited(W/kg)		1.6		4.0		
	Maximum Simultaneou	ıs Transmission SAR (V	V/kg)	•		
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR		
Sum SAR	1.59	1.48	1.33	3.80		
SPLSR	1	1	/	/		
SPLSR Limited		0.04	•	0.1		

#### Note:

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range:1710 - 1755 MHz)/ LTE Band 38 (Frequency range:2570 - 2620 MHz)/n38 (Frequency range:2570 - 2620 MHz)/ n78 (Frequency range:3300 - 3800 MHz is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz)/LTE Band41 (Frequency range:2496 - 2690 MHz)/ n77 (Frequency range:3300 - 3980 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

2) For LTE band 4/5/12/13/26 and n7/n41/n77 that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Reviewed by

Nick Hu

Prepared by

leon Xu

Leon Xu



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### 1 DUT Antenna Locations (Back View)

The DUT Antenna Locations (Back View) can refer to Appendix D.

#### Note:

 The test device is a smart phone. The overall diagonal dimension of this device is 170 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

2) Ant 0/5 is sensor pad 1 Ant 1/3/4/6/8/9 is sensor pad 2

According to the distance between 5G NR/LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	No
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
Ant 6	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 8	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 9	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 16	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 17	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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#### 2 General Information

### 2.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.				
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone				
Post code:	215000				
Test Engineer:	Alan-Zhang, Leon-Xu				



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The test facility is recognized, certified, or accredited by the following organizations:

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• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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### 2.4 General Description of EUT

Device Type :	portable device							
Exposure Category:	uncontrolled environment / general population							
Product Name:	Mobile Phone							
Model No.(EUT):	23113RKC6G							
FCC ID:	2AFZZRKC6G							
Trade Mark:	POCO							
Product Phase:	Identical Prototype							
IMEI:	1# 867826060041241/8678; 2# 867826060041142/8678; 3# 867826060044021/8678;	26060041159						
Hardware Version:	13510N11							
Software Version:	Xiaomi HyperOS 1.0							
Device Operating Configuration	ns :							
Modulation Mode:	CP-OFDM (QPSK, 16QAM,	I,256QAM; BPSK, QPSK, 16QAM, 64QAN	•					
Device Class:	В							
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33					
HSDPA UE Category:	24	HSUPA UE Category	6					
DC-HSDPA UE Category:	24							
Power Class	4,tested with power level 5(0) 1,tested with power level 0(0) 3, tested with power control	GSM1900)						
	3, tested with power control	, ,						
	Band	Tx (MHz)	Rx (MHz)					
	GSM850	824 - 849	869 - 894					
	GSM1900	1850 - 1910	1930 - 1990					
	WCDMA Band II	1850 - 1910	1930 - 1990					
	WCDMA Band IV	1710 - 1755	2110 - 2155					
	WCDMA Band V	824 - 849	869 - 894					
	LTE Band 2	1850 - 1910	1930 - 1990					
	LTE Band 4	1710 - 1755	2110 - 2155					
	LTE Band 5	824 - 849	869 - 894					
Frequency Bands:	LTE Band 7	2500 - 2570	2620 - 2690					
	LTE Band 38	2570 - 2620	2570 - 2620					
	LTE Band 41	2496 - 2690	2496 - 2690					
	LTE Band 48	3550 - 3700	3550 - 3700					
	LTE Band 66	1710 - 1780	2110 - 2200					
	NR Band n2	1850 - 1910	1930 - 1990					
	NR Band n5	824 - 849	869 - 894					
	NR Band n7	2500 - 2570	2620 - 2690					
	NR Band n38	2570 - 2620	2570 - 2620					
NR Band n38 2370 - 2020 2370 - 2020								



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	NR Band n41	2496 - 2690	2496 - 2690	
	NR Band n48	3550 - 3700	3550 - 3700	
	NR Band n77	3450 - 3550	3450 - 3550	
	INK Ballu II//	3700 - 3980	3700 - 3980	
	NR Band n78	3450 - 3550	3450 - 3550	
	INK Band 1178	3700 - 3800	3700 - 3800	
	Bluetooth	2400 - 2483.5	2400 - 2483.5	
	Wi-Fi 2.4G	2402 - 2462	2402 - 2462	
		5150 - 5250	5150 - 5250	
	Wi-Fi 5G	5250 - 5350	5250 - 5350	
		5470 - 5725	5470 - 5725	
		5725 - 5850	5725 - 5850	
RF Cable:	□ Provided by the second control of	e aplicant  Provided by the I	aboratory	
	Model:	BM5W		
1# Battery Information:	Normal Voltage:	+3.89V		
	Rated capacity:	4880mAh		
	Brand Name:	MI		
	Dianu Name.	IVII		

Note: \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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#### 2.4.1 LTE CA additional specification

The device supports downlink and intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- a) Intra-band carrier aggregation requirements for uplink.
- b) Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

- 1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05
- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2)SAR for UL CA is required in each exposure condition and frequency band combination
- 3)For this device , as the maximum output for Intra-band uplink LTE CA is  $\leq$  standalone LTE mode (without CA),
- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- 5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit FUL low - FUL high		Downlink (DL) operating band BS transmit / UE receive  FDL low - FDL high			Duplex Mode
CA_7C	7	2502.5 MHz - 2	2567.5 MHz	2620 MHz	_	2690 MHz	FDD
CA 38C	38	2572.5 MHz - 2	2617.5 MHz	2572.5MHz	_	2617.5 MHz	TDD



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c) The device supports Inter-band uplink LTE CA for CA\_2A-4A,CA\_4A-7A with two component carriers in the uplink.

1. For Inter-band uplink LTE CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink LTE CA SAR from standalone SAR test results of each LTE component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each Inter-band uplink LTE CA component band as the inter-band Uplink LTE CA SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report. Since the maximum output power of the LTE Inter-band uplink band is ≤ the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.

2CC Downlink Carrier Aggregation	DL 4x4 MIMO	3CC Downlink Carrier Aggregation	DL 4x4 MIMO
CA_2A-2A		CA_2A-7A-7A	7
CA_2A-4A	4	CA_2A-7C	7
CA_2A-7A	7	CA_4A-7C	4,7
CA_4A-5A	4	CA_5A-7A-7A	7
CA_4A-7A	7	CA_41D	41
CA_5A-7A	7		
CA_7A-7A	7		
CA_7C	7		
CA_38C	38		
CA_41C	41		
CA_41A-41A	41		
CA_66A-66A	66		
CA_66C	66		
CA_66B	66		



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#### 2.4.2 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 2) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The detailed power reduction information can be referred to Appendix E.



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## 2.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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#### 2.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

#### Notes:

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**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.)



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<sup>\*</sup> The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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# 3 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C			
Relative humidity	Min. = 30%, Max. = 70%			
Ambient noise is checked and found very low and in compliance with requirement of standards.				
Reflection of surrounding objects is minimized and i	n compliance with requirement of standards.			

Table 2: The Ambient Conditions



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# 4 SAR Measurements System Configuration

### 4.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

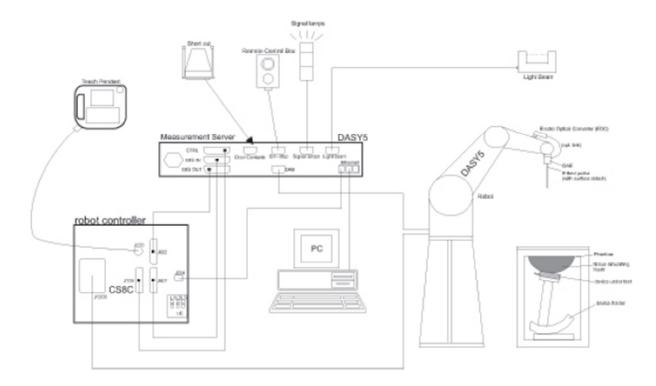
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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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.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

### 4.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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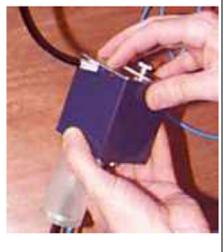
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### 4.3 Data Acquisition Electronics (DAE)

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



#### 4.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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#### 4.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)				
Liquid	Compatible with all SPEAG tissue				
Compatibility	simulating liquids (incl. DGBE type)				
Shell Thickness	2.0 ± 0.2 mm (bottom plate)				
Dimensions	Major axis: 600 mm				
	Minor axis: 400 mm				
Filling Volume	approx. 30 liters				
Wooden Support	SPEAG standard phantom table				



The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a reinforced top structure.



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#### 4.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$ =3 and loss tangent  $\delta$ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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### 4.7 Measurement procedure

#### 4.7.1 Scanning procedure

#### Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

#### Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm\*15mm or 12mm\*12mm or 10mm\*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

#### Step 3: Zoom scan

Around this point, a volume of 32mm\*32mm\*30mm (f≤2GHz), 30mm\*30mm\*30mm (f for 2-3GHz) and 24mm\*24mm\*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°	
			$\leq$ 2 GHz: $\leq$ 15 mm 2 – 3 GHz: $\leq$ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx <sub>Area</sub> , Δy <sub>Area</sub>		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*		
$\begin{array}{c} \text{uniform grid: $\Delta z_{Zoom}(n)$} \\ \text{Maximum zoom scan} \\ \text{spatial resolution,} \\ \text{normal to phantom} \\ \text{surface} \\ \end{array}  \begin{array}{c} \Delta z_{Zoom}(1) \text{: between} \\ 1^{\text{st}} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{Zoom}(n > 1) \text{:} \\ \text{between subsequent} \\ \text{points} \end{array}$		grid: ∆z <sub>Z∞m</sub> (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
		1st two points closest	≤ 4 mm	$3-4 \text{ GHz}: \leq 3 \text{ mm}$ $4-5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5-6 \text{ GHz}: \leq 2 \text{ mm}$	
		≤ 1.5·Δz	Zoom(n-1)		
Minimum zoom scan volume			≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

#### Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max.  $\pm$  5 %



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#### 4.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### 4.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factorDiode compression pointDcpi

Device parameters: - Frequency f

- Crest factor cf Media parameters: - Conductivity ε

- Density p

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dc p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i ( i = x, y, z )

cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$
  
With Vi = compensated signal of channel i (i = x, y, z)

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

 $\sigma$ = conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} - E_{tot}^2 \frac{2}{3770}$$
 or  $P_{pwe} - H_{tot}^2 \cdot 37.7$ 

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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# 5 SAR measurement variability and uncertainty

#### 5.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq$  0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is  $\ge 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

### 5.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

IEC- 62209-1528 sets out the general test methods to be followed when carrying out an RF exposure compliance assessment of wireless devices implementing device-based time-averaging methods for the management and/or mitigation of specific absorption rate (SAR) in the 4 MHz to 6 GHz frequency band. It does not cover requirements that are based on power density above 6 GHz or requirements to protect against nerve stimulation for the frequency range from 3 kHz to 10MHz.

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The Expanded uncertainty (95% CONFIDENCE INTERVAL) is 23.34%.

а	b	С	d	e = f(d,k)	g	i = C*g/e	К
Uncertainty Component	Section in P1528	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g ui (%)	Vi(Veff)
Measurement system							
Probe calibration	7.2.2.1	7.4	N	1	1	7.40	∞



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Axial isotropy	7.2.2.2	1.2	R	√3	1	0.69	∞
hemispherical isotropy	7.2.2.2	3.2	R	√3	1	1.85	∞
Linearity	7.2.2.3	0.9	R	√3	1	0.52	∞
Probe modulation response	7.2.2.4	0	R	√3	1	0.00	∞
Detection limits	7.2.2.5	0.25	R	√3	1	0.14	∞
Boundary effect	7.2.2.6	1.0	R	√3	1	0.58	∞
Readout electronics	7.2.2.7	0.3	N	1	1	0.30	∞
Response time	7.2.2.8	0	R	√3	1	0.00	∞
Integration time	7.2.2.9	2.6	R	√3	1	1.50	∞
RF ambient conditions – noise	7.2.4.5	3	R	√3	1	1.73	∞
RF ambient conditions – reflections	7.2.4.5	3	R	√3	1	1.73	∞
Probe positioner mech. restrictions	7.2.3.1	1.5	R	√3	1	0.87	∞
Probe positioning with respect to phantom shell	7.2.3.3	2.9	R	√3	1	1.67	∞
Post-processing	7.2.5	1	R	√3	1	0.58	∞
	7	est sample re	lated				
Device holder uncertainty	7.2.3.4.2	3.6	N	1	1	3.60	∞
Test sample positioning	7.2.3.4.3	3.7	N	1	1	3.70	9
Power scaling	L.3	5.0	R	√3	1	2.89	∞
Drift of output power (measured SAR drift)	7.2.2.10	5	R	√3	1	2.89	∞
, ,	F	hantom and s	et-up	_			
Phantom uncertainty (shape and thickness tolerances)	7.2.3.2	4	R	√3	1	2.31	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	1.90	∞
Liquid conductivity (meas.)	7.2.4.3	5.78	N	1	0.78	4.51	4
Liquid permittivity (meas.)	7.2.4.3	0.62	N	1	0.23	0.14	5
Liquid permittivity – temperature uncertainty	7.2.4.4	0.2	R	√3	0.78	0.09	∞
Liquid conductivity – temperature uncertainty	7.2.4.4	5.37	R	√3	0.23	0.71	∞
Combined standard uncertainty RSS						11.67	417
Expanded uncertainty (95% CONFIDENCE INTERVAL) K=2						23.34	



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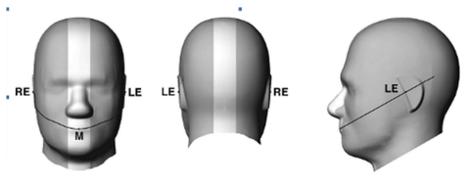
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# 6 Description of Test Position

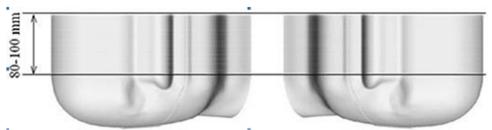
### **6.1 Head Exposure Condition**

#### 6.1.1 SAM Phantom Shape

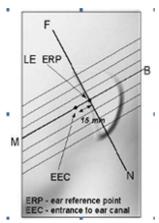


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

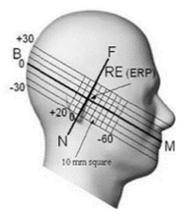
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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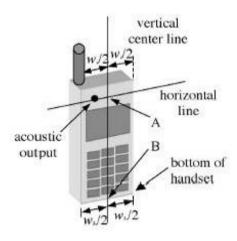


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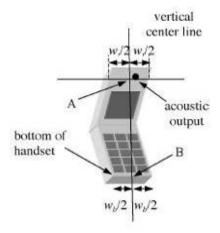
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#### 6.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-"fixed case"



F-8. Handset vertical and horizontal reference lines-"clam-shell case"

#### 6.1.3 Definition of the "cheek" position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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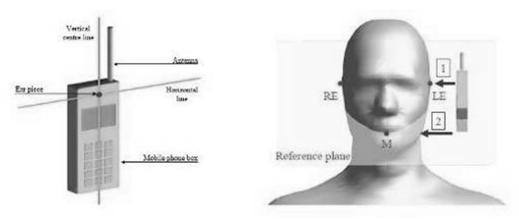
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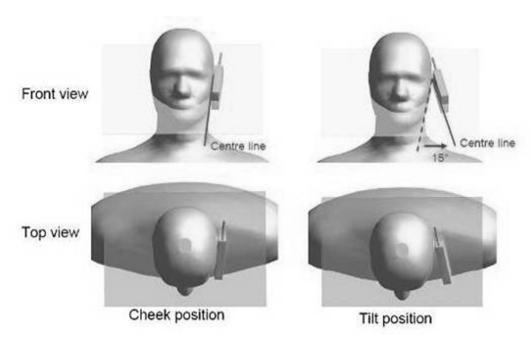
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#### 6.1.4 Definition of the "tilted" position

- a) Position the device in the "cheek" position described above;
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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#### **6.2 Body Exposure Condition**

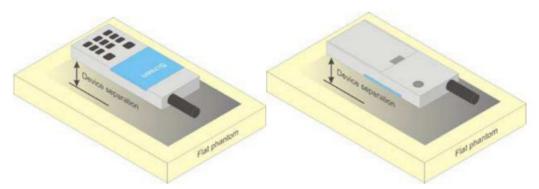
#### 6.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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. Per FCC KDB Publication 648474 D04, Bodyworn 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 Publication 447498 D01 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 a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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 tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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#### 6.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W  $\geq$  9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

#### 6.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

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 Product Specific 10-g SAR according to the body-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, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, hotspot power levels, and product specific 10g SAR power levels are the same, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



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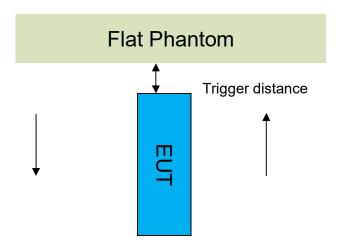
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### 6.4 Proximity Sensor Triggering Test

#### Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)								
	Ant0/5							
Position	Front Side	Back Side	Left Side	Bottom Side				
Minimum	16	16	16 16					
Required SAR Test	15	15	15 15					
	Ant1/3/4/6/8/9							
Position	Front Side	Back Side	Left Side	Top Side				
Minimum	6	6	6	6				
Required SAR Test	5	5	5	5				

#### Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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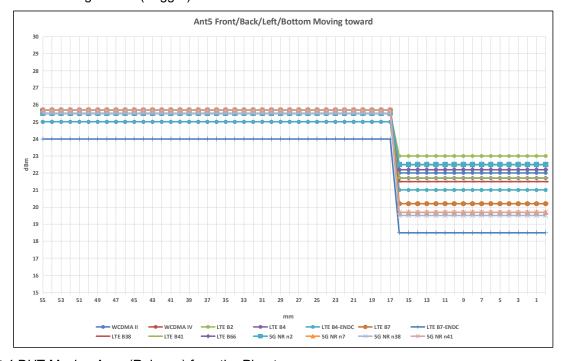


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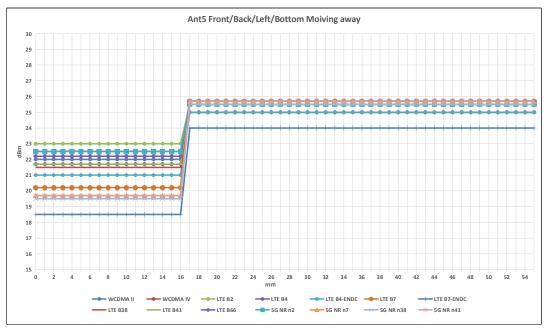
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#### Ant 5 DUT Moving Toward(Trigger)the Phantom



#### Ant 4 DUT Moving Away(Release) from the Phantom





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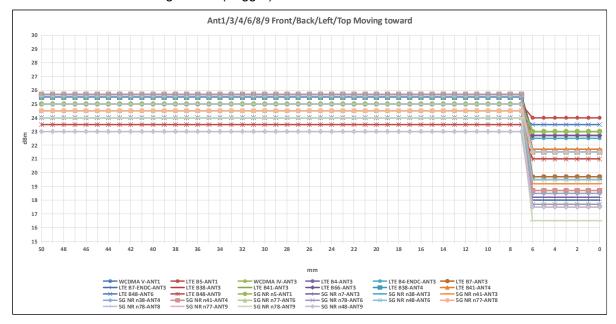


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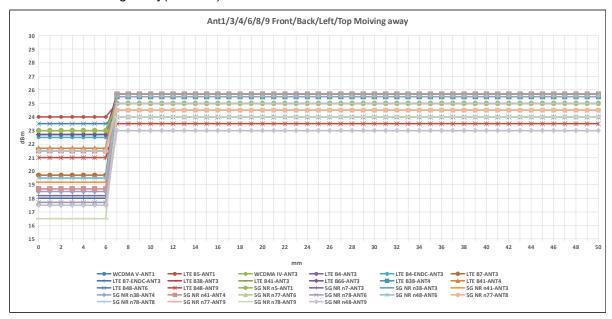
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#### Ant 1/3/4/6/8/9 DUT Moving Toward(Trigger)the Phantom



#### Ant 3/7 DUT Moving Away(Release) from the Phantom





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#### Proximity sensor coverage

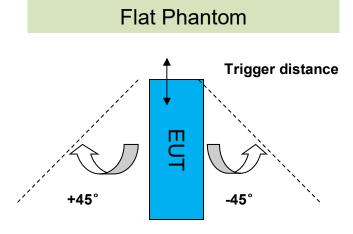
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

#### Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in  $\leq 10^{\circ}$  increments until the tablet is  $\pm 45^{\circ}$  from the vertical position at  $0^{\circ}$ , and the maximum output power remains in the reduced mode.



	Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Band Minimum trigger distance Per KDB616217§6.2		Minimum trigger distance at which	Power Reduction Status										
	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
Ant0/5	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant1/3/4/6/8/9	Top side:6mm	Top side:6mm	on	on	on	on	on	on	on	on	on	on	on



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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# 7 SAR System Verification Procedure

### 7.1 Tissue Simulate Liquid

### 7.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)									
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700					
Water	38.56	40.30	55.24	55.00	54.92					
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23					
Sucrose	56.32	57.90	0	0	0					
HEC	0.98	0.24	0	0	0					
Bactericide	0.19	0.18	0	0	0					
Tween	0	0	44.45	44.80	44.85					

Salt: 99<sup>+</sup>% Pure Sodium Chloride Water: De-ionized, 16 MΩ<sup>+</sup> resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL13MHz is composed of the following ingredients:

Water: 50-90%

Non-ionic detergents: 5-50%

Nacl: 0-2%

Preservative: 0.03-0.1%

HSL5GHz is composed of the following ingredients:

Water: 50-65%
Mineral oil: 10-30%
Emulsifiers: 8-25%
Sodium salt: 0-1.5%

Table 3: Recipe of Tissue Simulate Liquid



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### 7.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\rho$ ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency	Target Tissue (±5%)		Measure	ed Tissue	Liquid Temp. (°C)	Test Date
	(MHz)	εr	σ(S/m)	ε <sub>r</sub>	σ(S/m)	(0)	
13 Head	13	55.00	0.75	54.100	0.736	22.5	2023/9/25
835 Head	835	41.50	0.90	43.100	0.885	22.6	2023/10/2
1750 Head	1750	40.10	1.37	40.400	1.350	22.7	2023/9/22
1750 Head	1750	40.10	1.37	40.500	1.340	22.7	2023/9/24
1950 Head	1950	40.00	1.40	40.400	1.360	22.8	2023/10/5
1950 Head	1950	40.00	1.40	40.300	1.370	22.8	2023/10/8
2450 Head	2450	39.20	1.80	39.205	1.808	22.5	2023/10/20
2600 Head	2600	39.00	1.96	37.800	1.960	22.5	2023/10/11
2600 Head	2600	39.00	1.96	37.100	1.890	22.5	2023/10/15
3500 Head	3500	37.90	2.91	38.000	3.010	22.8	2023/9/25
3700 Head	3700	37.70	3.12	39.400	3.060	22.9	2023/9/28
3900 Head	3900	37.50	3.32	39.100	3.280	22.8	2023/9/28
5250 Head	5250	35.90	4.66	35.818	4.590	22.5	2023/10/22
5600 Head	5600	35.50	5.07	35.146	5.055	22.5	2023/10/24
5750 Head	5750	35.40	5.22	34.744	5.235	22.5	2023/10/26
835 Head	835	41.50	0.90	43.000	0.930	22.6	2023/11/16
1750 Head	1750	40.10	1.37	39.600	1.330	22.7	2023/11/16
3500 Head	3500	37.90	2.91	38.600	2.990	22.8	2023/11/17
3700 Head	3700	37.70	3.12	38.400	3.250	22.9	2023/11/17

Table 4: Measurement result of Tissue electric parameters.



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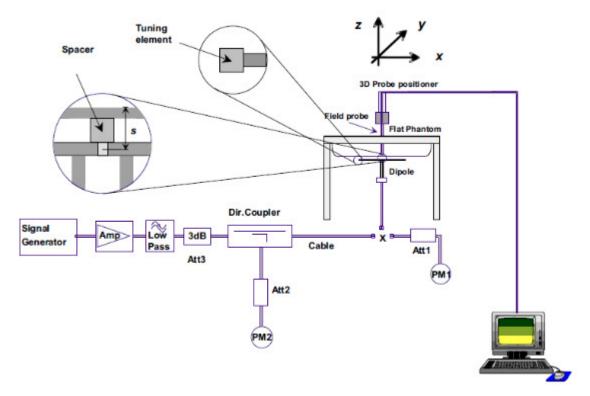
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### 7.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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#### 7.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within  $5\Omega$  from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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### 7.2.2 Summary System Check Result(s)

Validation Kit		Measure d SAR 250mW	Measure d SAR 250mW	Measured SAR (normalize d to 1W)	Measured SAR (normalize d to 1W)	Target SAR (normalize d to 1W)	Target SAR (normalize d to 1W)		ation ±10%)	Liqui d Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg )	10- g(W/kg )	(°C)	
CLA13	Head	0.11	0.07	0.46	0.29	0.42	0.27	8.31%	8.27%	22.6	2023/10/2
D835V2	Head	2.30	1.49	9.20	5.96	9.52	6.17	-3.36%	-3.40%	22.6	2023/10/2
D835V2	Head	2.41	1.57	9.64	6.28	9.52	6.17	1.26%	1.78%	22.6	2023/11/16
D1750V2	Head	9.16	4.89	36.64	19.56	35.30	18.70	3.80%	4.60%	22.7	2023/9/22
D1750V2	Head	9.01	4.68	36.04	18.72	35.30	18.70	2.10%	0.11%	22.7	2023/9/24
D1750V2	Head	9.06	4.83	36.24	19.32	35.30	18.70	2.66%	3.32%	22.7	2023/11/16
D1900V2	Head	9.3	4.82	37.20	19.28	39.70	20.30	-6.30%	-5.02%	22.8	2023/10/5
D1900V2	Head	9.25	4.75	37.00	19.00	39.70	20.30	-6.80%	-6.40%	22.8	2023/10/8
D2450V2	Head	12.50	5.75	50.00	23.00	52.20	24.50	-4.21%	-6.12%	22.5	2023/10/20
D2600V2	Head	13.80	6.44	55.20	25.76	57.10	25.40	-3.33%	1.42%	22.5	2023/10/11
D2600V2	Head	14.70	6.66	58.80	26.64	57.10	25.40	2.98%	4.88%	22.5	2023/10/15
Valid	dation Kit	Measure d SAR 100mW		Measured SAR (normalize d to 1W)	Measured SAR (normalize d to 1W)	Target SAR   Target SAR   (normalize   d to 1W)   d to 1W)		Deviation (Within ±10% )		Liqui d Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg )	10- g(W/kg )	(℃)	
D3500V2	Head(3.5GHz)	6.06	2.33	60.60	23.30	66.60	24.90	-9.01%	-6.43%	22.8	2023/9/25
D3700V2	Head(3.7GHz)	6.33	2.36	63.30	23.60	68.00	24.60	-6.91%	-4.07%	22.9	2023/9/28
D3500V2	Head(3.5GHz)	6.14	2.36	61.40	23.60	66.60	24.90	-7.81%	-5.22%	22.8	2023/11/17
D3700V2	Head(3.7GHz)	6.88	2.45	68.80	24.50	68.00	24.60	1.18%	-0.41%	22.9	2023/11/17
D3900V2	Head(3.9GHz)	6.54	2.33	65.40	23.30	69.70	24.00	-6.17%	-2.92%	22.8	2023/9/28
	Head(5.25GHz )	7.24	2.08	72.40	20.80	78.00	21.80	-7.18%	-4.59%	22.5	2023/10/22
D5GHzV 2	Head(5.6GHz)	7.24	2.07	72.40	20.70	79.90	22.50	-9.39%	-8.00%	22.5	2023/10/24
_	Head(5.75GHz )	7.13	2.03	71.30	20.30	76.40	21.20	-6.68%	-4.25%	22.5	2023/10/26

Table 5: SAR System Check Result.

### 7.2.3 Detailed System Check Results

Please see the Appendix A



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## 8 Test Configuration

#### 8.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

### 8.2 Operation Configurations

### 8.2.1 **GSM Test Configuration**

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode



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### 8.2.2 WCDMA Test Configuration

#### 1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

#### 2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

#### 3). Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

#### 4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq$  1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

#### a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors( $\beta$ c,  $\beta$ d), and HS-DPCCH power offset parameters ( $\Delta$ ACK,  $\Delta$ NACK,  $\Delta$ CQI) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1:  $\triangle$ ACK,  $\triangle$ NACK and  $\triangle$ CQI= 8 Ahs =  $\beta$ hs/ $\beta$ c=30/15  $\beta$ hs=30/15\* $\beta$ c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\triangle$ ACK and  $\triangle$ NACK= 8 ( Ahs=30/15) with  $\beta$ hs=30/15\* $\beta$ c,and  $\triangle$ CQI=

7 (Ahs=24/15) with  $\beta$ hs= $24/15*\beta$ c.

Note3: CM=1 for $\beta$ c/ $\beta$ d =12/15,  $\beta$ hs/ $\beta$ c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

#### b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSUPA Data Device" sections of 3G device.



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Sub -test₽	βοσ	βd₽	βά (SF )	β₀∕β⋳₽	β <sub>hs</sub> (1	β <sub>ec+</sub> 3	$eta_{ t ed} arphi$	β <sub>e</sub> « « (SF )+	β <sub>ed</sub> ↔ (code )↔	CM <sup>(</sup> 2)↔ (dB )↔	MP R↓ (dB)↓	AG(4 )+/ Inde x4	E- TFC I <sub>e</sub>
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(	64₽	11/15(3)+3	22/15₽	209/22 5₽	1039/225	4.	1₽	1.0₽	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12 <sub>0</sub>	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β <sub>ad1</sub> :47/1 5 <sub>4</sub> β <sub>ed2:47/1</sub> 5 <sub>4</sub>	4₽	2₽	2.0₽	1.0₽	15.0	92₽
4₽	2/15₽	15/15₽	64₽	2/15₄	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0∉	0.0₽	210	81∉

Note 1:  $\triangle$  ACK,  $\triangle$  NACK and  $\triangle$  CQI = 8  $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$   $\beta_{hs} = 30/15 * \beta_{ed}$ 

Note 2: CM = 1 for  $\beta_c/\beta_d$  = 12/15,  $\beta_{hs}/\beta_c$  = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_d = 15/15$ .

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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#### c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

#### Note:

- 1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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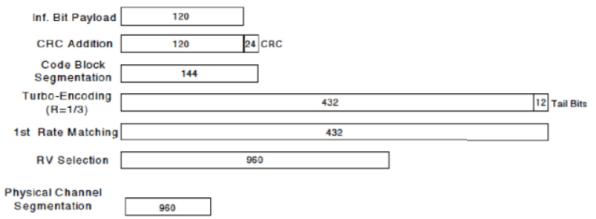


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test₽	βe₽	β <sub>d</sub> ₽	β <sub>d</sub> ·(SF)₽	$\beta_c \cdot / \beta_{d^{\omega}}$	β <sub>hs</sub> (1)	CM(dB)(2)	MPR (dB)₽
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	<b>0</b> ₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	<b>0</b> ₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

Note 1:  $\triangle$  ACK,  $\triangle$  NACK and  $\triangle$  CQI=8  $A_{hs} = \beta_{hs}/\beta_c = 30/15$   $\beta_{hs} = 30/15 * \beta_c = 30/15$ 

Note 2: CM=1 for  $\beta_c/\beta_d=12/15$ ,  $\beta_{hs}/\beta_c=24/15$ . For all other combinations of DPDCH,DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c=11/15$  and  $\beta_d=15/15$ .

Up commands are set continuously to set the UE to Max power. Note:

- 1. The Dual Carriers transmission only applies to HSDPA physical channels
- 2. The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4. The Dual Carriers operate in the same frequency band.
- 5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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### 8.2.3 WiFi Test Configuration

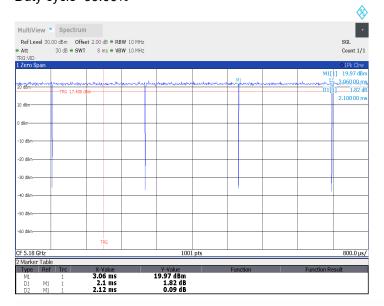
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

#### 8.2.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b: Duty cycle=100%

						♦
MultiView	• Spectrum					•
	0.00 dBm Offset 1.00					SGL
TRG:VID	30 dB ● SWT 20 i	ms • VBW 10 MHz				
1 Zero Span						0 1Pk Clrw
20 dBm	TRG 16.600 dBm					
	1 KG 10.000 UBIT					
10 d8m						
D dBm-						
o dom						
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
TRG						
CF 2.412 GHz		<u> </u>	100	l pts		2.0 ms/

Wi-Fi 5GHz 802.11a: Duty cycle=99.06%





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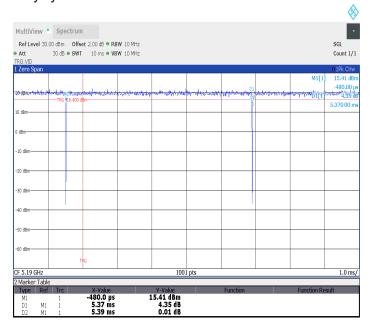


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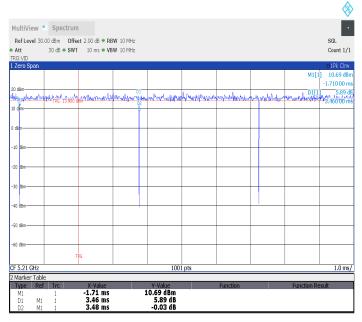
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# Wi-Fi 5GHz 802.11n 40M: Duty cycle=99.63%



# Wi-Fi 5GHz 802.11ac 80M: Duty cycle=99.43%





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#### 8.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, 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. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

#### 8.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

#### 8.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated



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band and exposure configuration.

- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
  - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
  - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
  - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
  - b) replace "initial test configuration" with "all tested higher output power configurations"



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#### 8.2.3.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

#### • 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

#### SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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#### 8.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

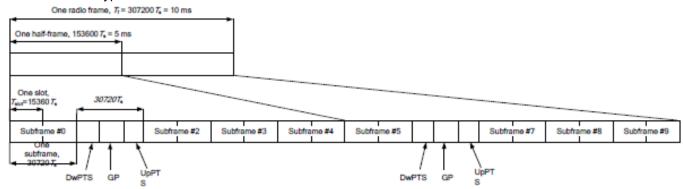
#### **TDD LTE test consideration**

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

#### Frame structure type 2:





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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink			
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS	
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	6592.Ts			7680.Ts		'	
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts	
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15		
3	24144.Ts			25600.Ts			
4	26336.Ts			7680.Ts			
5	6592.Ts			20480.Ts	4384.Ts	5120.Ts	
6	19760.Ts			23040.Ts	4304.18	5120.18	
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts			
8	24144.Ts			-	-	-	
9	13168.Ts			-	-	-	

#### Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	С
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

#### Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity				Subfra	ame N	umber					Calculated Duty
ion	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)
0	5 ms	D	S	U	U	U	D	S	J	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	C	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33



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#### A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

#### B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth (	(N <sub>RB</sub> )	MPR (dB)					
	1.4	3.0	5	10	15	20	l					
	MHz	MHz MHz MHz MHz MHz										
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1					
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1					
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2					
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2					
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3					

#### C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

#### D) Largest channel bandwidth standalone SAR test requirements

#### 1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

#### 2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

#### 3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

#### 4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

#### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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### 8.2.5 NR Band Test Configuration

1. NR Band n2/5/38/41/48/77/78 support SA mode and n5/38/41/77/78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

B W			5		n7		-
Band/Antenna	<b>a</b>	Ant0	Ant1	Ant7	Ant8	Ant6	Ant9
LTE Dand 2	Ant2	×	×	√	√	√	√
LTE Band 2	Ant5	×	×	√	√	√	√
LTE Band 5	Ant0	×	×	√	√	√	√
LIE Ballu 5	Ant1	×	×	√	√	√	√
	Ant2	√	√	√	√	√	√
LTE Band 7	Ant3	√	1	√	√	√	√
	Ant5	√	1	√	√	√	√
	Ant2	×	×	√	√	√	√
LTE Band 41	Ant3	×	×	√	√	√	√
LIE Dalla 41	Ant5	×	×	√	√	√	√
	Ant4	×	×	√	√	√	√



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2. The general information supported by the NR band is as following table:

<u> </u>			арронов ој	by the fift band to do following table.							
	Band		n5	n7	n38	n41	n66	n77 CP3	n77 CP2	n78 CP3	n78 CP2
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DET	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DFT-s- OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	OFDM	64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
D	uty Cycle		100%	100%	100%	100%	100%	100%	50%	100%	50%

Dand	200		Bandwidth												
Band	SCS	5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz	
N2	15KHZ	Yes	Yes	Yes	Yes	N/A									
N5	15KHZ	Yes	Yes	Yes	Yes	N/A									
N7	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
N38	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
N41	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes								
N48	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
n77	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes								
n78	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes								



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3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.

- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq$  0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device



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#### 4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

O.Z.Z dilder Table O.Z				
Modul	otion		MPR (dB)	
Modul	auon	Edge RB allocations	Outer RB allocations	Inner RB allocations
	PI/2 BPSK	≤ 3.5 <sup>1</sup>	≤ 1.2 <sup>1</sup>	≤ 0.2 <sup>1</sup>
	FI/Z DPSK	≤ 0.5 <sup>2</sup>	≤ 0.5 <sup>2</sup>	02
DFT-s-OFDM	QPSK	≤	1	0
	16 QAM	≤	2	≤ 1
	64 QAM		≤ 2.5	
	256 QAM		≤ 4.5	
	QPSK	≤	3	≤ 1.5
CP-OFDM	16 QAM	≤	3	≤ 2
CF-OFDIVI	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	_

- NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n41, n77, n78. The reference power of 0 dB MPR is 26dBm.
- NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n41, n77, n78 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n41, n77, n78.
- 5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.
- 6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:
  - 1) For 5G NR NSA mode with the same UL EN\_DC combination but different DL EN\_DC combinations, eg: EN-DC configuration: UL DC\_7A\_n5 (UL two bands) with DL DC\_7C\_n5 (DL two bands)
- a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.
- b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be ≤ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.
- 7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.
- 8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.
- 9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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### 9 Test Result

### 9.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

#### Note:

1) . For GSM SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is >  $\frac{1}{2}$  dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
  - The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
  - The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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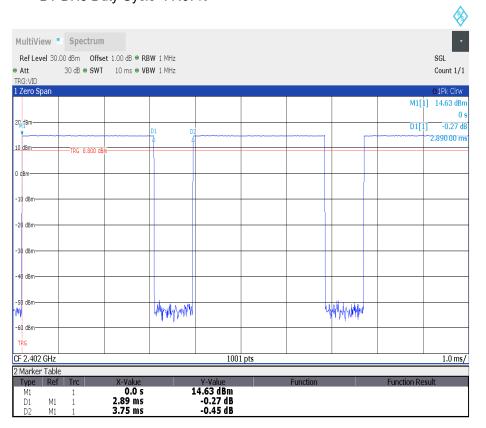
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1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=77.07%





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#### 9.2 Measurement of SAR Data

#### Note:

- 1) The maximum Scaled SAR value is select the worst presentation of the original report SEWM2304000137RG09 and this report. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, 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:
  - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

#### WiFi 2.4G:

 When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

#### WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function
- 3) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

#### NFC:

- 1) NFC SAR is measured for all edges and surfaces of the device.
- 2) NFC 13.56MHz antenna por is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
- 3) NFC SAR test tissue-simulating liquid parameter refer to IEC/IEEE 62209-1528 2020.



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#### 9.2.1 SAR Result of GSM850

	GSM850 SAR Test Record												
				Ant 0 Test	t Record								
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
				Head Te	st Data								
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.136	0.04	25.57	27.00	1.390	0.189	22.6			
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.078	0.01	25.57	27.00	1.390	0.108	22.6			
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.114	-0.05	25.57	27.00	1.390	0.158	22.6			
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.058	0.04	25.57	27.00	1.390	0.081	22.6			
			Body wo	orn Test data	a(Separate	15mm)							
Front side	GPRS 4TS	190/836.6	1:2.075	0.109	-0.03	25.57	27.00	1.390	0.152	22.6			
Back side	GPRS 4TS	190/836.6	1:2.075	0.119	0.07	25.57	27.00	1.390	0.165	22.6			
			Hotspo	ot Test data(	Separate 1	0mm)							
Front side	GPRS 4TS	190/836.6	1:2.075	0.135	0.09	25.57	27.00	1.390	0.188	22.6			
Back side	GPRS 4TS	190/836.6	1:2.075	0.173	0.04	25.57	27.00	1.390	0.240	22.6			
Left side	GPRS 4TS	190/836.6	1:2.075	0.181	0.10	25.57	27.00	1.390	0.252	22.6			
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.129	0.08	25.57	27.00	1.390	0.179	22.6			
Ant 1 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
				Head Te	st Data								
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.666	0.04	22.97	24.00	1.268	0.844	22.6			
Left cheek	GPRS 4TS	128/824.2	1:2.075	0.636	0.02	22.87	24.00	1.297	0.825	22.6			
Left cheek	GPRS 4TS	251/848.8	1:2.075	0.546	0.03	22.83	24.00	1.309	0.715	22.6			
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.081	-0.02	22.97	24.00	1.268	0.103	22.6			
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.394	0.09	22.97	24.00	1.268	0.499	22.6			
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.070	-0.02	22.97	24.00	1.268	0.089	22.6			
			Body wo	orn Test data	a(Separate	15mm)							
Front side	GPRS 4TS	190/836.6	1:2.075	0.229	0.05	25.89	27.00	1.291	0.296	22.6			
Back side	GPRS 4TS	190/836.6	1:2.075	0.212	0.02	25.89	27.00	1.291	0.274	22.6			
			Hotspo	ot Test data(	Separate 1	0mm)							
Front side	GPRS 4TS	190/836.6	1:2.075	0.145	0.09	22.97	24.00	1.268	0.184	22.6			
Back side	GPRS 4TS	190/836.6	1:2.075	0.163	-0.02	22.97	24.00	1.268	0.207	22.6			
Left side	GPRS 4TS	190/836.6	1:2.075	0.219	-0.01	22.97	24.00	1.268	0.278	22.6			

Table 11: SAR of GSM850 for Head and Body.

#### 9.2.2 SAR Result of GSM1900

3.2.2 OAI	J.E.E GAR RESult of Commoto													
	GSM1900 SAR Test Record													
	Ant 2 Test Record													
Test position	Test position  Test mode  Test ch./Freq.  Duty Cycle  SAR (W/kg)  Power drift (dB)  Conducted Power(dBm)  Tune up Limit(dBm)  Scaled SAR 1-g (W/kg)  Temp.													
	Head Test Data													
Left cheek	GPRS 4TS	661/1880	1:2.075	0.443	0.18	20.39	21.50	1.291	0.572	22.8				
Left tilted	GPRS 4TS	661/1880	1:2.075	0.088	0.09	20.39	21.50	1.291	0.114	22.8				
Right cheek	GPRS 4TS	661/1880	1:2.075	0.433	0.06	20.39	21.50	1.291	0.559	22.8				
Right tilted	GPRS 4TS	661/1880	1:2.075	0.059	0.05	20.39	21.50	1.291	0.076	22.8				
	Body worn Test data(Separate 15mm)													
Front side	GPRS 4TS	661/1880	1:2.075	0.164	-0.03	23.89	25.00	1.291	0.212	22.8				
Back side	GPRS 4TS	661/1880	1:2.075	0.157	0.15	23.89	25.00	1.291	0.203	22.8				



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Hotspot Test data(Separate 10mm)												
Front side	GPRS 4TS	661/1880	1:2.075	0.167	-0.03	20.39	21.50	1.291	0.216	22.8		
Back side	GPRS 4TS	661/1880	1:2.075	0.161	0.09	20.39	21.50	1.291	0.208	22.8		
Right side	GPRS 4TS	661/1880	1:2.075	0.310	0.01	20.39	21.50	1.291	0.400	22.8		
	Ant 5 Test Record											
Test position  Test mode  Test ch./Freq.  Duty Cycle  SAR (W/kg)  Power drift (dB)  Conducted Power(dBm)  Tune up Limit(dBm)  Scaled SAR 1-g (W/kg)  Tem												
				Head Te	st Data							
Left cheek	GPRS 4TS	661/1880	1:2.075	0.063	-0.01	23.54	25.00	1.400	0.088	22.8		
Left tilted	GPRS 4TS	661/1880	1:2.075	0.007	0.08	23.54	25.00	1.400	0.010	22.8		
Right cheek	GPRS 4TS	661/1880	1:2.075	0.055	0.01	23.54	25.00	1.400	0.077	22.8		
Right tilted	GPRS 4TS	661/1880	1:2.075	0.005	-0.05	23.54	25.00	1.400	0.007	22.8		
			Body w	orn Test data	a(Separate 1	5mm)						
Front side	GPRS 4TS	661/1880	1:2.075	0.114	0.08	23.54	25.00	1.400	0.160	22.8		
Back side	GPRS 4TS	661/1880	1:2.075	0.131	0.01	23.54	25.00	1.400	0.183	22.8		
			Hotsp	ot Test data(	Separate 10	mm)						
Front side	GPRS 4TS	661/1880	1:2.075	0.183	0.09	23.54	25.00	1.400	0.256	22.8		
Back side	GPRS 4TS	661/1880	1:2.075	0.214	0.04	23.54	25.00	1.400	0.300	22.8		
Right side	GPRS 4TS	661/1880	1:2.075	0.088	0.01	23.54	25.00	1.400	0.123	22.8		
Bottom side	GPRS 4TS	661/1880	1:2.075	0.499	0.04	23.54	25.00	1.400	0.698	22.8		

Table 12: SAR of GSM1900 for Head and Body.

#### 9.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record													
W B2 SAR Test Record  Ant 2 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)			
				Head Test [	Data								
Left cheek	RMC	9400/1880	1:1	0.475	-0.12	18.63	19.50	1.222	0.580	22.8			
Left tilted	RMC	9400/1880	1:1	0.086	0.08	18.63	19.50	1.222	0.105	22.8			
Right cheek	RMC	9400/1880	1:1	0.525	0.01	18.63	19.50	1.222	0.641	22.8			
Right tilted	RMC	9400/1880	1:1	0.062	0.03	18.63	19.50	1.222	0.076	22.8			
		Е	Body worn	Test data(S	eparate 1	15mm)							
Front side	RMC	9400/1880	1:1	0.188	0.08	21.12	22.00	1.225	0.230	22.8			
Back side	RMC	9400/1880	1:1	0.182	0.01	21.12	22.00	1.225	0.223	22.8			
			Hotspot T	est data(Se	parate 10	Omm)							
Front side	RMC	9400/1880	1:1	0.214	0.07	18.63	19.50	1.222	0.261	22.8			
Back side	RMC	9400/1880	1:1	0.199	-0.04	18.63	19.50	1.222	0.243	22.8			
Right side	RMC	9400/1880	1:1	0.391	0.05	18.63	19.50	1.222	0.478	22.8			
			Α	nt 5 Test R	ecord								
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)			
				Head Test [	Data								
Left cheek	RMC	9400/1880	1:1	0.098	-0.03	24.33	25.00	1.167	0.114	22.8			
Left tilted	RMC	9400/1880	1:1	0.065	-0.01	24.33	25.00	1.167	0.076	22.8			
Right cheek	RMC	9400/1880	1:1	0.085	-0.05	24.33	25.00	1.167	0.099	22.8			
Right tilted	RMC	9400/1880	1:1	0.043	0.07	24.33	25.00	1.167	0.050	22.8			
		E	Body worn	Test data(S	eparate ´	15mm)							
Front side	RMC	9400/1880	1:1	0.362	0.07	21.38	22.00	1.153	0.418	22.8			
Back side	RMC	9400/1880	1:1	0.418	-0.09	21.38	22.00	1.153	0.482	22.8			



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Hotspot Test data(Separate 10mm)												
Front side RMC 9400/1880 1:1 0.246 -0.08 21.38 22.00 1.153 0.284 22.8												
Back side RMC 9400/1880 1:1 0.291 0.11 21.38 22.00 1.153 0.336 22.8												
Right side	RMC	9400/1880	1:1	0.105	0.07	21.38	22.00	1.153	0.121	22.8		
Bottom side	RMC	9400/1880	1:1	0.648	0.03	21.38	22.00	1.153	0.747	22.8		

Table 13: SAR of WCDMA Band II for Head and Body.

#### 9.2.4 SAR Result of WCDMA Band IV

Ant 2 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
				Hea	d Test Da	ta						
Left cheek	RMC	1412/1732.4	1:1	0.430	0.06	18.73	19.50	1.194	0.513	22.7		
Left tilted	RMC	1412/1732.4	1:1	0.077	0.04	18.73	19.50	1.194	0.092	22.7		
Right cheek	RMC	1412/1732.4	1:1	0.445	0.09	18.73	19.50	1.194	0.531	22.7		
Right tilted	RMC	1412/1732.4	1:1	0.057	0.07	18.73	19.50	1.194	0.068	22.7		
			Body	worn Test	data(Sep	arate 15mm)						
Front side	RMC	1412/1732.4	1:1	0.188	0.07	22.21	23.00	1.199	0.226	22.7		
Back side	RMC	1412/1732.4	1:1	0.179	-0.05	22.21	23.00	1.199	0.215	22.7		
	1	,				rate 10mm)	T	ı				
Front side	RMC	1412/1732.4	1:1	0.203	0.04	18.73	19.50	1.194	0.242	22.7		
Back side	RMC	1412/1732.4	1:1	0.163	-0.02	18.73	19.50	1.194	0.195	22.7		
Right side	RMC	1412/1732.4	1:1	0.368	0.09	18.73	19.50	1.194	0.439	22.7		
	,			Ant 3	Test Rec	ord		-				
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
	•			Hea	d Test Da	ta	•	•				
Left cheek	RMC	1412/1732.4	1:1	0.286	0.10	18.80	19.50	1.175	0.336	22.7		
Left tilted	RMC	1412/1732.4	1:1	0.200	0.01	18.80	19.50	1.175	0.235	22.7		
Right cheek	RMC	1412/1732.4	1:1	0.865	0.05	18.80	19.50	1.175	1.016	22.7		
Right cheek	RMC	1312/1712.4	1:1	0.904	0.03	18.69	19.50	1.205	1.089	22.7		
Right cheek-repeated	RMC	1312/1712.4	1:1	0.895	0.02	18.69	19.50	1.205	1.079	22.7		
Right cheek	RMC	1513/1752.6	1:1	0.831	0.09	18.66	19.50	1.213	1.008	22.7		
Right tilted	RMC	1412/1732.4	1:1	0.370	0.02	18.80	19.50	1.175	0.435	22.7		
			Body	worn Test	data(Sep	arate 15mm)						
Front side	RMC	1412/1732.4	1:1	0.256	-0.04	24.88	25.50	1.153	0.295	22.7		
Back side	RMC	1412/1732.4	1:1	0.337	0.09	24.88	25.50	1.153	0.389	22.7		
			Hots	pot Test o	data(Sepa	rate 10mm)						
Front side	RMC	1412/1732.4	1:1	0.162	0.02	18.80	19.50	1.175	0.190	22.7		
Back side	RMC	1412/1732.4	1:1	0.179	-0.02	18.80	19.50	1.175	0.210	22.7		
Left side	RMC	1412/1732.4	1:1	0.328	0.06	18.80	19.50	1.175	0.385	22.7		
Top side	RMC	1412/1732.4	1:1	0.113	-0.02	18.80	19.50	1.175	0.133	22.7		
				Ant 5	Test Rec	ord						
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
				Hea	d Test Da	ta						
Left cheek	RMC	1412/1732.4	1:1	0.130	-0.04	24.27	25.00	1.183	0.154	22.7		
Left tilted	RMC	1412/1732.4	1:1	0.058	-0.02	24.27	25.00	1.183	0.069	22.7		
Right cheek	RMC	1412/1732.4	1:1	0.117	0.09	24.27	25.00	1.183	0.138	22.7		
Right tilted	RMC	1412/1732.4	1:1	0.054	-0.01	24.27	25.00	1.183	0.064	22.7		
	1	<b>,</b>			· · · · ·	arate 15mm)	r	ı	1			
Front side	RMC	1412/1732.4	1:1	0.351	0.01	24.27	25.00	1.183	0.415	22.7		



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Back side	RMC	1412/1732.4	1:1	0.403	0.09	24.27	25.00	1.183	0.477	22.7
			Hots	pot Test	data(Sepa	rate 10mm)				
Front side	RMC	1412/1732.4	1:1	0.418	-0.04	21.78	22.50	1.180	0.493	22.7
Back side	RMC	1412/1732.4	1:1	0.470	0.01	21.78	22.50	1.180	0.555	22.7
Right side	RMC	1412/1732.4	1:1	0.179	0.03	21.78	22.50	1.180	0.211	22.7
Bottom side	RMC	1412/1732.4	1:1	0.885	-0.02	21.78	22.50	1.180	1.045	22.7
Bottom side	RMC	1312/1712.4	1:1	0.827	0.07	21.72	22.50	1.197	0.990	22.7
Bottom side	RMC	1513/1752.6	1:1	0.824	0.05	21.77	22.50	1.183	0.975	22.7

Table 14: SAR of WCDMA Band IV for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	1312/1712.4	0.904	0.895	1.010055866	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

#### 9.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record														
	Ant 0 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)				
				Head <sup>1</sup>	Test Data									
Left cheek	RMC	4182/836.4	1:1	0.181	0.01	24.13	24.50	1.089	0.197	22.6				
Left tilted	RMC	4182/836.4	1:1	0.106	-0.01	24.13	24.50	1.089	0.115	22.6				
Right cheek	RMC	4182/836.4	1:1	0.143	0.04	24.13	24.50	1.089	0.156	22.6				
Right tilted	RMC	4182/836.4	1:1	0.094	0.10	24.13	24.50	1.089	0.102	22.6				
			Body	worn Test d	ata(Separa	ite 15mm)								
Front side	RMC	4182/836.4	1:1	0.152	-0.04	24.13	24.50	1.089	0.166	22.6				
Back side	RMC	4182/836.4	1:1	0.164	-0.02	24.13	24.50	1.089	0.179	22.6				
Hotspot Test data(Separate 10mm)														
Front side														
Back side	RMC	4182/836.4	1:1	0.271	0.04	24.13	24.50	1.089	0.295	22.6				
Left side	RMC	4182/836.4	1:1	0.232	0.09	24.13	24.50	1.089	0.253	22.6				
Bottom side	RMC	4182/836.4	1:1	0.188	0.15	24.13	24.50	1.089	0.205	22.6				
				Ant 1 To	est Record									
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)				
				Head	Test Data									
Left cheek	RMC	4182/836.4	1:1	0.766	0.08	19.99	20.50	1.125	0.861	22.6				
Left cheek	RMC	4132/826.4	1:1	0.775	0.07	19.89	20.50	1.151	0.892	22.6				
Left cheek	RMC	4233/846.6	1:1	0.725	-0.01	19.88	20.50	1.153	0.836	22.6				
Left tilted	RMC	4182/836.4	1:1	0.092	-0.03	19.99	20.50	1.125	0.103	22.6				
Right cheek	RMC	4182/836.4	1:1	0.384	0.10	19.99	20.50	1.125	0.432	22.6				
Right tilted	RMC	4182/836.4	1:1	0.075	0.09	19.99	20.50	1.125	0.084	22.6				
			Body	worn Test d	ata(Separa	ite 15mm)								
Front side	RMC	4182/836.4	1:1	0.402	-0.04	24.18	24.50	1.076	0.433	22.6				
Back side	Back side         RMC         4182/836.4         1:1         0.376         -0.13         24.18         24.50         1.076         0.405         22.6													
			Hots	spot Test da	ta(Separate	e 10mm)								
Front side	RMC	4182/836.4	1:1	0.312	0.14	19.99	20.50	1.125	0.351	22.6				



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	Back side	RMC	4182/836.4	1:1	0.304	0.11	19.99	20.50	1.125	0.342	22.6
Ī	Left side	RMC	4182/836.4	1:1	0.432	-0.01	19.99	20.50	1.125	0.486	22.6

Table 15: SAR of WCDMA Band V for Head and Body.

#### 9.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			-	Hea	ad Test Dat	ta(1RB)	•			. 2.	
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.795	0.08	18.45	19.20	1.189	0.945	22.8
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.821	-0.04	18.38	19.20	1.208	0.992	22.8
Left cheek	20	QPSK 1_0	19100/1900	1:1	0.705	-0.01	18.36	19.20	1.213	0.855	22.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.129	-0.04	18.45	19.20	1.189	0.153	22.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.711	0.15	18.45	19.20	1.189	0.845	22.8
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.775	0.10	18.38	19.20	1.208	0.936	22.8
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.638	0.05	18.36	19.20	1.213	0.774	22.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.092	-0.04	18.45	19.20	1.189	0.109	22.8
					Test Data	`	T				
Left cheek		QPSK 50_0	· · · · · · · · · · · · · · · · · · ·	1:1	0.777	-0.08	18.41	19.20	1.199	0.932	22.8
Left cheek	20	QPSK 50_0		1:1	0.834	-0.11	18.39	19.20	1.205	1.005	22.8
Left cheek-repeated	20	QPSK 50_0	18700/1860	1:1	0.826	0.02	18.39	19.20	1.205	0.995	22.8
Left cheek	20	QPSK 50_0		1:1	0.750	0.09	18.40	19.20	1.202	0.902	22.8
Left tilted	20	QPSK 50_0		1:1	0.129	0.00	18.41	19.20	1.199	0.155	22.8
Right cheek	20	QPSK 50_0		1:1	0.699	0.07	18.41	19.20	1.199	0.838	22.8
Right cheek		QPSK 50_0		1:1	0.743	0.03	18.39	19.20	1.205	0.895	22.8
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.664	0.13	18.40	19.20	1.202	0.798	22.8
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.096	0.02	18.41	19.20	1.199	0.115	22.8
		0001111			Test Data(		,	10.00			
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.762	-0.17	18.31	19.20	1.227	0.935	22.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.678	-0.17	18.31	19.20	1.227	0.832	22.8
					st data(Se		1			l	
Front side	20	QPSK 1_0	18900/1880	1:1	0.206	0.05	22.02	22.70	1.169	0.241	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.202	-0.11	22.02	22.70	1.169	0.236	22.8
		00011000					m 50%RB)				
Front side		QPSK 50_0		1:1	0.216	-0.11	21.93	22.70	1.194	0.258	22.8
Back side	20	QPSK 50_0	,	1:1	0.204	-0.05	21.93	22.70	1.194	0.244	22.8
		00014.4.0			data(Sepa			40.00	4.400	0.000	00.0
Front side	20	QPSK 1_0	18900/1880	1:1	0.242	-0.15	18.45	19.20	1.189	0.288	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.223	-0.11	18.45	19.20	1.189	0.265	22.8
Right side	20	QPSK 1_0	18900/1880	1:1	0.445	-0.11	18.45	19.20	1.189	0.529	22.8
For all 121	00	ODCK 50. 0			ata(Separa			40.00	4.400	0.004	00.0
Front side	20	QPSK 50_0		1:1	0.234	0.03	18.41	19.20	1.199	0.281	22.8
Back side	20	QPSK 50_0		1:1	0.218	0.17	18.41	19.20	1.199	0.261	22.8
Right side	20	QPSK 50_0	18900/1880	1:1	0.434	-0.05	18.41	19.20	1.199	0.521	22.8
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	nt 5 Test R SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					ad Test Dat	ta(1RB)					
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.094	0.10	25.38	25.50	1.028	0.097	22.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.077	0.03	25.38	25.50	1.028	0.079	22.8



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Right cheek	20	QPSK 1_0	18900/1880	1:1	0.108	-0.13	25.38	25.50	1.028	0.111	22.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.041	0.19	25.38	25.50	1.028	0.042	22.8
				Head	Test Data	(50%RB)					
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.094	-0.15	24.32	24.50	1.042	0.098	22.8
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.064	0.00	24.32	24.50	1.042	0.067	22.8
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.082	-0.19	24.32	24.50	1.042	0.085	22.8
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.032	0.11	24.32	24.50	1.042	0.033	22.8
			Body	worn Te	st data(Se	oarate 15r	mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.389	-0.09	25.38	25.50	1.028	0.400	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.443	-0.02	25.38	25.50	1.028	0.455	22.8
			Body w	orn Test	data(Sepa	rate 15mi	m 50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.363	-0.06	24.32	24.50	1.042	0.378	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.382	-0.08	24.32	24.50	1.042	0.398	22.8
			Hots	pot Test	data(Sepa	rate 10mi	m 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.240	-0.17	22.93	23.00	1.016	0.244	22.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.268	-0.15	22.93	23.00	1.016	0.272	22.8
Right side	20	QPSK 1_0	18900/1880	1:1	0.094	0.14	22.93	23.00	1.016	0.096	22.8
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.774	-0.15	22.93	23.00	1.016	0.787	22.8
			Hotsp	ot Test d	ata(Separa	ate 10mm	50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.238	-0.06	22.86	23.00	1.033	0.246	22.8
Back side	20	QPSK 50_0	18900/1880	1:1	0.265	-0.14	22.86	23.00	1.033	0.274	22.8
Right side	20	QPSK 50_0	18900/1880	1:1	0.092	-0.07	22.86	23.00	1.033	0.095	22.8
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.723	-0.11	22.86	23.00	1.033	0.747	22.8
Table 40 OAD of LT									•		

Table 16: SAR of LTE Band 2 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	18700/1860	0.834	0.826	1.00968523	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.7 SAR Result of LTE Band 4

	LTE Band 4 SAR Test Record												
Ant 2 Test Record													
Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1-g Conducted Power(dBm) Tune up Limit(dBm) Scaled SAR 1-g (W/kg) factor Scaled SAR 1-g (W/kg)													
	Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.192	0.03	22.53	22.70	1.040	0.200	22.7		
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.171	-0.08	22.53	22.70	1.040	0.178	22.7		
			Body	worn Test	data(Sepa	rate 15m	m 50%RB)						
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.210	-0.04	22.39	22.70	1.074	0.226	22.7		
Front side - DLCA	Front side - DLCA 20 QPSK 50 0 20175/1732.5 1:1 0.156 -0.18 21.40 22.00 1.148 0.179 22.7												
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.190	0.01	22.39	22.70	1.074	0.204	22.7		

Table 17: SAR of LTE Band 4 for Head and Body.

#### 9.2.8 SAR Result of LTE Band 5

#### LTE Band 5 SAR Test Record Ant 0 Test Record



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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	1	1				_					
Test position	DW	Toot made	Toot ob /Eroa	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	i est mode	Test ch./Freq.	Cycle	(W/kg) 1-g	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1-g (W/kg)	Temp.(℃)
Head Test Data(1RB)											
Left cheek	10	QPSK 1 0	20525/836.5	1:1	0.223	0.01	24.64	25.00	1.086	0.242	22.6
Left cheek - For ENDC	10	QPSK 1 0	20525/836.5	1:1	0.203	-0.18	24.38	25.00	1.153	0.234	22.6
Left tilted	10	QPSK 1 0	20525/836.5	1:1	0.095	0.01	24.64	25.00	1.086	0.103	22.6
Right cheek	10	QPSK 1 0	20525/836.5	1:1	0.141	0.14	24.64	25.00	1.086	0.153	22.6
Right tilted	10	QPSK 1 0	20525/836.5	1:1	0.084	-0.05	24.64	25.00	1.086	0.091	22.6
Head Test Data(50%RB)											
Left cheek	10	QPSK 25 0	20525/836.5	1:1	0.173	-0.04	23.55	24.00	1.109	0.192	22.6
Left tilted	10	QPSK 25 0	20525/836.5	1:1	0.074	-0.16	23.55	24.00	1.109	0.082	22.6
Right cheek	10	QPSK 25 0	20525/836.5	1:1	0.114	0.10	23.55	24.00	1.109	0.126	22.6
Right tilted	10	QPSK 25 0		1:1	0.067	0.14	23.55	24.00	1.109	0.074	22.6
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1 0	20525/836.5	1:1	0.148	0.13	24.64	25.00	1.086	0.161	22.6
Back side	10	QPSK 1 0	20525/836.5	1:1	0.162	0.09	24.64	25.00	1.086	0.176	22.6
Back side - For ENDC	10	QPSK 1 0	20525/836.5	1:1	0.141	-0.19	24.38	25.00	1.153	0.163	22.6
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25 0		1:1	0.114	0.03	23.55	24.00	1.109	0.126	22.6
Back side	10	QPSK 25 0		1:1	0.134	-0.09	23.55	24.00	1.109	0.149	22.6
			Hotsp	ot Test da	ta(Separa	te 10mm	1RB)				ļ
Front side	10	QPSK 1 0	20525/836.5	1:1	0.222	0.10	24.64	25.00	1.086	0.241	22.6
Back side	10	QPSK 1 0	20525/836.5	1:1	0.288	0.10	24.64	25.00	1.086	0.313	22.6
Back side - For ENDC	10	QPSK 1 0	20525/836.5	1:1	0.268	-0.15	24.38	25.00	1.153	0.309	22.6
Left side	10	QPSK 1 0	20525/836.5	1:1	0.284	0.16	24.64	25.00	1.086	0.309	22.6
Bottom side	10	QPSK 1 0	20525/836.5	1:1	0.209	0.08	24.64	25.00	1.086	0.227	22.6
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25 0	20525/836.5	1:1	0.194	-0.12	23.55	24.00	1.109	0.215	22.6
Back side	10	QPSK 25 0	20525/836.5	1:1	0.237	-0.12	23.55	24.00	1.109	0.263	22.6
Left side	10	QPSK 25 0		1:1	0.259	0.09	23.55	24.00	1.109	0.287	22.6
Bottom side	10	QPSK 25 0		1:1	0.167	0.14	23.55	24.00	1.109	0.185	22.6
		· –		Ant 1	Test Rec	ord				!	!
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Power(dBm)		factor	SAR 1-g	Temp.(℃)
					1-g	(dB)	· onor(aziii)		luotoi	(W/kg)	· op.( o )
		T			Test Data(	·					
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.607	0.05	19.84	20.50	1.164	0.707	22.6
Left cheek - For ENDC		QPSK 1_0	20525/836.5	1:1	0.486	0.01	19.55	20.50	1.245	0.605	22.6
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.087	0.10	19.84	20.50	1.164	0.101	22.6
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.403	-0.12	19.84	20.50	1.164	0.469	22.6
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.065	0.16	19.84	20.50	1.164	0.076	22.6
Head Test Data(50%RB)											
Left cheek	10		20525/836.5	1:1	0.597	0.16	19.79	20.50	1.178	0.703	22.6
Left tilted	10		20525/836.5	1:1	0.086	0.09	19.79	20.50	1.178	0.101	22.6
Right cheek	10		20525/836.5	1:1	0.393	-0.11	19.79	20.50	1.178	0.463	22.6
Right tilted	10	QPSK 25_0		1:1	0.062	-0.10	19.79	20.50	1.178	0.073	22.6
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.387	0.02	23.24	24.00	1.191	0.461	22.6
Back side	10	QPSK 1_0	20525/836.5	1:1	0.397	-0.15	23.24	24.00	1.191	0.473	22.6
Back side - For ENDC	10	QPSK 1_0	20525/836.5	1:1	0.309	-0.18	22.97	24.00	1.268	0.392	22.6
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0		1:1	0.383	0.05	23.19	24.00	1.205	0.462	22.6
Back side	10	QPSK 25_0		1:1	0.390	-0.16	23.19	24.00	1.205	0.470	22.6
Hotspot Test data(Separate 10mm 1RB)											



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Front side	10	QPSK 1_0	20525/836.5	1:1	0.309	0.15	19.84	20.50	1.164	0.360	22.6	
Back side	10	QPSK 1_0	20525/836.5	1:1	0.314	0.15	19.84	20.50	1.164	0.366	22.6	
Left side	10	QPSK 1_0	20525/836.5	1:1	0.358	-0.17	19.84	20.50	1.164	0.417	22.6	
	Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.306	-0.14	19.79	20.50	1.178	0.360	22.6	
Back side	10	QPSK 25_0	20525/836.5	1:1	0.301	-0.05	19.79	20.50	1.178	0.354	22.6	
Left side	10	QPSK 25_0	20525/836.5	1:1	0.381	0.01	19.79	20.50	1.178	0.449	22.6	
Left side - For ENDC	10	QPSK 25_0	20525/836.5	1:1	0.287	-0.06	19.52	20.50	1.253	0.360	22.6	

Table 18: SAR of LTE Band 5 for Head and Body.

#### 9.2.9 SAR Result of LTE Band 7

9.2.9 SAR Resu				·	4 D						
			LTE Band 7 SAF Ant 2 Test			ora					
			Allt 2 Test	Dut	SAR	<b></b>	0	T	01-	Scale	
Test position	BW	Test mode	Test ch./Freq.	y Cycl			Conducted Power(dBm	Tune up Limit(dBm	Scale d factor		Liquid Temp.(℃)
	<u> </u>			е	1-g	()	,	,		(W/kg)	
l aft ala aala		ODCK 4 0	Head Test [			0.00	40.45	40.70	4 050	0.000	20.5
Left cheek	20	QPSK 1_0 QPSK 1_0	21100/2535	1:1	0.286	0.03	16.45	16.70	1.059	0.303	22.5 22.5
Left tilted		_	21100/2535	1:1	0.061	0.14	16.45	16.70		0.065	
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.696	0.15	16.45	16.70	1.059	0.737	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.049	-0.05	16.45	16.70	1.059	0.052	22.5
Left cheek	20	ODCK EO. O	Head Test Da		0.303	0.10	16.44	16.70	1.062	0.322	22 E
	20	QPSK 50_0	21100/2535	1:1			_				22.5
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.265	0.14	16.37	16.70	1.079	0.286	22.5
Left cheek	20	QPSK 50_0	21350/2560	1:1	0.321	-0.03	16.34	16.70	1.086	0.349	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.065	0.09	16.44	16.70	1.062	0.069	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.754	0.17	16.44	16.70	1.062	0.801	22.5
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.678	-0.17	16.37	16.70	1.079	0.732	22.5
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.774	-0.04	16.34	16.70	1.086	0.841	22.5
Right cheek - For ENDC	20	QPSK 50_0	21350/2560	1:1	0.551	0.09	14.31	15.00	1.172	0.646	22.5
Right cheek - UL CA	20	_	21350+21152/2560+2540.2	1:1	0.569	-0.12	16.24	16.70	1.112	0.633	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.049	-0.14	16.44	16.70	1.062	0.052	22.5
	1	0.0017	Head Test Dat	ta(10	0%RB)		ı		1	ı	
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.742	-0.12	16.41	16.70	1.069	0.793	22.5
			Body worn Test data(S	Separ	ate 15r	nm 1R	. /				
Front side	20	QPSK 1_0	21100/2535	1:1	0.128	0.04	19.35	19.70	1.084	0.139	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.125		19.35	19.70	1.084	0.135	22.5
			Body worn Test data(Se	para	te 15mr	m 50%	RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.138	-0.07	19.26	19.70	1.107	0.153	22.5
Front side - For ENDC	20	QPSK 50_0	21100/2535	1:1	0.078	0.03	17.25	18.00	1.189	0.093	22.5
Front side - UL CA	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.081	-0.11	19.17	19.70	1.130	0.092	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.136	-0.18	19.26	19.70	1.107	0.151	22.5
			Hotspot Test data(Se	parat	e 10mr	n 1RB)				-	
Front side	20	QPSK 1_0	21100/2535	1:1	0.115	-0.16	16.45	16.70	1.059	0.122	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.107	0.18	16.45	16.70	1.059	0.113	22.5
Right side	20	QPSK 1_0	21100/2535	1:1	0.225	0.12	16.45	16.70	1.059	0.238	22.5
		_	Hotspot Test data(Sepa	arate	10mm	50%RI	3)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.121	-0.10	16.44	16.70	1.062	0.128	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.115	-0.01	16.44	16.70	1.062	0.122	22.5
Right side	20	QPSK 50_0	21100/2535	1:1	0.238	0.02	16.44	16.70	1.062	0.253	22.5
Right side - For ENDC	20	QPSK 50_0	21100/2535	1:1	0.204	-0.04	14.46	15.00	1.132	0.231	22.5
Right side - UL CA	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.211	-0.07	16.34	16.70	1.086	0.229	22.5



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			Ant 3 Test	Rec	ord						
Test position	BW	Test mode	Test ch./Freq.	Dut y Cycl e	SAR (W/kg ) 1-g	Powe r drift (dB)	Conducted Power(dBm )	Tune up Limit(dBm )	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
			Head Test [	Data(	IRB)						
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.292	-0.06	17.09	17.70	1.151	0.336	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.281	-0.17	17.09	17.70	1.151	0.323	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.887	-0.02	17.09	17.70	1.151	1.021	22.5
Right cheek	-					-0.16	17.03	17.70	1.167	0.974	22.5
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.898	0.17	17.03	17.70	1.167	1.048	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.471	-0.12	17.09	17.70	1.151	0.542	22.5
			Head Test Da	·							
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.293	0.19	17.02	17.70	1.169	0.343	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.293	-0.17	17.02	17.70	1.169	0.343	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.913	-0.12	17.02	17.70	1.169	1.068	22.5
Right cheek		QPSK 50_0	20850/2510	1:1	0.870	0.00	17.01	17.70	1.172	1.020	22.5
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.923	0.01	17.01	17.70	1.172	1.082	22.5
Right cheek-repeated	20	QPSK 50_0	21350/2560	1:1	0.921	0.05	17.01	17.70	1.172	1.080	22.5
Right cheek - For ENDC	20	QPSK 50_0	21350/2560	1:1	0.697	-0.04	15.02	16.00	1.253	0.873	22.5
Right cheek - UL CA	20	_	21350+21152/2560+2540.2	1:1	0.711	0.12	16.85	17.70	1.216	0.865	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.494	0.05	17.02	17.70	1.169	0.578	22.5
		Ī	Head Test Da	ta(10	0%RB)		1			1	
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.878	-0.03	17.00	17.70	1.175	1.032	22.5
			Body worn Test data(S	Separ	ate 15r	nm 1R	B)				
Front side	20	QPSK 1_0	21100/2535	1:1	0.588	0.03	25.57	25.70	1.030	0.606	22.5
Front side - For ENDC	20	QPSK 1_0	21100/2535	1:1	0.389	0.01	22.83	24.00	1.309	0.509	22.5
Front side - UL CA	20		21100+20902/2535+2515.2		0.401	-0.16	23.93	24.70	1.194	0.479	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.572	0.17	25.57	25.70	1.030	0.589	22.5
			Body worn Test data(Se	i e			,			1	
Front side	20	QPSK 50_0	21100/2535	1:1	0.484	0.14	25.57	25.70	1.030	0.499	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.479	0.04	25.57	25.70	1.030	0.494	22.5
			Hotspot Test data(Se						l	1 1	
Front side	20	QPSK 1_0	21100/2535	1:1	0.200	-0.19	17.09	17.70	1.151	0.230	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.211	-0.02	17.09	17.70	1.151	0.243	22.5
Left side	20	QPSK 1_0	21100/2535	1:1	0.351	-0.08	17.09	17.70	1.151	0.404	22.5
Top side	20	QPSK 1_0	21100/2535	1:1	0.102		17.09	17.70	1.151	0.117	22.5
	-00	0001/50 0	Hotspot Test data(Sep					47.70	4 400	0.044	00.5
Front side	20	QPSK 50_0	21100/2535	1:1	0.209	-0.06	17.02	17.70	1.169	0.244	22.5
Back side		QPSK 50_0	21100/2535	1:1	0.223	-0.13	17.02	17.70	1.169	0.261	22.5
Left side		QPSK 50_0	21100/2535		0.362		17.02	17.70		0.423	22.5
Left side - For ENDC		QPSK 50_0	21100/2535	1:1	0.258		15.05	16.00		0.321	22.5
Left side - UL CA			21100+20902/2535+2515.2		0.306		16.87	17.70	1.211	0.370	22.5
Top side	20	QPSK 50_0	21100/2535	1:1	0.105	0.12	17.02	17.70	1.169	0.123	22.5
Test position	BW	Test mode	Ant 5 Test	Dut	SAR (W/kg		Conducted Power(dBm	Tune up Limit(dBm )	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
	•		Head Test [			'	,				
Left cheek 20 QPSK 1_0 21100/2535					0.126	0.12	25.57	25.70	1.030	0.130	22.5
Left tilted 20 QPSK 1_0 21100/2535				1:1 1:1	0.079		25.57	25.70	1.030	0.081	22.5
Right cheek	20	QPSK 1 0	21100/2535	1:1		-0.15	25.57	25.70	1.030		22.5
Right cheek - For ENDC	20	QPSK 1 0	21100/2535	1:1	0.127	0.13	22.99	24.00		0.160	22.5



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Right cheek - UL CA	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.133	0.10	23.98	24.70	1.180 0.1	157	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.090	-0.19	25.57	25.70	1.030 0.0	093	22.5
			Head Test Da	ta(50	)%RB)						
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.105	-0.13	24.48	24.70	1.052 0.1	110	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.069	-0.07	24.48	24.70	1.052 0.0	073	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.151	-0.12	24.48	24.70	1.052 0.1	159	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.074	-0.15	24.48	24.70	1.052 0.0	078	22.5
			Body worn Test data(S	Separ	ate 15n	nm 1RE	3)				
Front side	20	QPSK 1_0	21100/2535	1:1	0.306	0.12	25.57	25.70	1.030 0.3	315	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.422	0.03	25.57	25.70	1.030 0.4	435	22.5
Back side - For ENDC	20	QPSK 1_0	21100/2535	1:1	0.328	0.09	22.99	24.00	1.262 0.4	414	22.5
Back side - UL CA	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.357	-0.13	23.98	24.70	1.180 0.4	421	22.5
			Body worn Test data(Se	parat	e 15mr	n 50%F	RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.249	0.02	24.48	24.70	1.052 0.2	262	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.322	0.04	24.48	24.70	1.052 0.3	339	22.5
			Hotspot Test data(Se	parat	e 10mr	n 1RB)					
Front side	20	QPSK 1_0	21100/2535	1:1	0.246	0.00	20.09	20.20	1.026 0.2	252	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.285	-0.01	20.09	20.20	1.026 0.2	292	22.5
Right side	20	QPSK 1_0	21100/2535	1:1	0.097	-0.04	20.09	20.20	1.026 0.0	099	22.5
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.524	-0.01	20.09	20.20	1.026 0.9	537	22.5
Bottom side - For ENDC	20	QPSK 1_0	21100/2535	1:1	0.451	0.12	17.76	18.50	1.186 0.9	535	22.5
Bottom side - UL CA	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.504	0.03	20.03	20.20	1.040 0.9	524	22.5
			Hotspot Test data(Sepa	arate	10mm	50%RE	3)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.246	0.18	20.06	20.20	1.033 0.2	254	22.5
Back side	21100/2535	1:1	0.283	0.07	20.06	20.20	1.033 0.2	292	22.5		
Right side	21100/2535	1:1	0.094	0.09	20.06	20.20	1.033 0.0	097	22.5		
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.515	0.05	20.06	20.20	1.033 0.5	532	22.5
Table 40 OAD STATED											

Table 19: SAR of LTE Band 7 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated	
	(MHz)	, .,	SAR (1g)		SAR (1g)	SAR (1g)	
Right cheek	21350/2560	0.923	0.921	1.002171553	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.10 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record														
	Ant 2 Test Record													
Test position  BW Test mode Test ch./Freq.  Duty Cycle SAR (W/kg) 1-g Power(dBm Limit(dBm d factor W/kg) 1-g (W/kg)														
		_	Head Tes	t Data(1	RB)				-					
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.386	-0.14	19.43	19.70	1.064	0.411	22.5			
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.077	-0.07	19.43	19.70	1.064	0.082	22.5			
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.913	0.01	19.43	19.70	1.064	0.972	22.5			
Right cheek - Repeat SAR	20	QPSK 1_0	40620/2593	1:1.58	0.908	-0.05	19.43	19.70	1.064	0.966	22.5			
Right cheek - Band38 ULCA	20	QPSK 1_0	37901+38099 /2585.1+2604.9	1:1.58	0.763	0.10	19.33	19.50	1.040	0.793	22.5			
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.758	-0.17	19.37	19.70	1.079	0.818	22.5			



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.848	0.00	19.38	19.70	1.076	0.913	22.5
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.893	-0.07	19.39	19.70	1.074	0.959	22.5
Right cheek	20	QPSK 1 0	41490/2680	1:1.58	0.863	0.10	19.29	19.70	1.099	0.948	22.5
Right tilted	20	QPSK 1 0	40620/2593	1:1.58	0.056	-0.03	19.43	19.70	1.064	0.060	22.5
			Head Test	Data(509	%RB)		•		ı		I
Left cheek	20	QPSK 50 0	40620/2593	1:1.58		-0.02	19.39	19.70	1.074	0.408	22.5
Left tilted	20	QPSK 50 0	40620/2593	1:1.58			19.39	19.70	1.074	0.082	22.5
Right cheek	20	QPSK 50 0	40620/2593	1:1.58			19.39	19.70	1.074	0.967	22.5
Right cheek	20	QPSK 50 0	39750/2506	1:1.58		0.19	19.33	19.70	1.089	0.813	22.5
Right cheek	20	QPSK 50 0	40185/2549.5	1:1.58			19.37	19.70	1.079	0.899	22.5
Right cheek	20	QPSK 50 0	41055/2636.5	1:1.58	0.878		19.37	19.70	1.079	0.947	22.5
Right cheek	20	QPSK 50 0	41490/2680	1:1.58			19.36	19.70	1.081	0.908	22.5
Right tilted	20	QPSK 50 0	40620/2593	1:1.58			19.39	19.70	1.074	0.060	22.5
rtigrit tilled	20	Q1 01( 00_0	Head Test D			-0.10	15.55	13.70	1.074	0.000	22.0
		QPSK	Tieau Test L	Tala(100	/01\D)				1		
Right cheek	20	100 0	40620/2593	1:1.58	0.885	-0.01	19.41	19.70	1.069	0.946	22.5
		100_0	Body worn Test data	(Senara	te 15m	m 1RF	8)		<u> </u>	<u> </u>	ļ
Front side	20	QPSK 1 0	40620/2593	1:1.58			22.06	22.20	1.033	0.114	22.5
Back side	20	QPSK 1 0	40620/2593	1:1.58			22.06	22.20	1.033		22.5
Daok Side	20	QI OIT I_0	Body worn Test data(					22.20	1.000	0.113	22.0
Front side	20	QPSK 50 0	40620/2593	1:1.58		1	21.97	22.20	1.054	0.116	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.116		21.97	22.20	1.054	0.110	22.5
	20	QPSK 50_0		1.1.56	0.116	0.04	21.97	22.20	1.054	0.122	22.5
Back side - Band38 ULCA	20	QPSK 50_0	37901+38099 /2585.1+2604.9	1:1.58	0.095	0.00	21.75	22.00	1.059	0.101	22.5
OLOA			Hotspot Test data(	Sonarate	10mm	1PR)	l				
Front side	20	QPSK 1 0	40620/2593	1:1.58			19.43	19.70	1.064	0.195	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58			19.43	19.70	1.064	0.185	22.5
	20	QPSK 1_0	40620/2593	1:1.58			19.43	19.70	1.064	0.103	22.5
Right side	20	QFSK I_U						19.70	1.004	0.390	22.3
Formt side	20	ODCK FO. O	Hotspot Test data(Se				i	40.70	4.074	0.400	20.5
Front side	20	QPSK 50_0	40620/2593	1:1.58			19.39	19.70	1.074		22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58			19.39	19.70	1.074	0.178	22.5
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.393	-0.16	19.39	19.70	1.074	0.422	22.5
Right side - Band38	20	QPSK 50 0	37901+38099	1:1.58	0.355	-0.04	19.23	19.50	1.064	0.378	22.5
ULCA	<u> </u>		/2585.1+2604.9	L Door	 al		<u> </u>		<u> </u>	ļ	ļ
		1	Ant 3 Te	St Reco			1			Caala	1
	вw			Duty	SAR (W/kg		Conducted		Scale	Scale d SAR	Liquid
Test position		Test mode	Test ch./Freq.	Cycle	)	i uiiit	Power(dBm	Limit(dBm	_	1-g	Temp.(℃
				,	1-g	(dB)	)	)	factor	(W/kg)	)
			Head Tes	t Data(1	RB)						
Left cheek	20	QPSK 1_0	40620/2593	1:1.58			19.44	19.70	1.062	0.266	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.246	0.02	19.44	19.70	1.062	0.261	22.5
Right cheek	20	QPSK 1 0	40620/2593	1:1.58			19.44	19.70		0.926	22.5
Right cheek - Band38	00		37901+38099	4.4.50	0.000	0.44	40.40	40.50	4.070	0.740	00.5
ULCA	20	QPSK 1_0	/2585.1+2604.9	1:1.58	0.689	0.11	19.18	19.50	1.076	0.742	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.844	0.05	19.35	19.70	1.084	0.915	22.5
Right cheek	20	QPSK 1 0	40185/2549.5	1:1.58	0.840	-0.02	19.30	19.70	1.096	0.921	22.5
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.790	0.07	19.34	19.70	1.086	0.858	22.5
Right cheek	20	QPSK 1_0	41490/2680	1:1.58			19.35	19.70	1.084		22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58			19.44	19.70		0.505	22.5
U			Head Test				1	-			
Left cheek	20	QPSK 50 0	40620/2593	1:1.58		0.12	19.41	19.70	1.069	0.267	22.5
Left tilted	_	QPSK 50 0	40620/2593	1:1.58			19.41	19.70	1.069		22.5
Right cheek	_	QPSK 50_0	40620/2593			-0.02	19.41	19.70	1.069		22.5
r agra orioon							10.71	10.10			
Right cheek		QPSK 50 0	39750/2506	1:1.58			19.37	19.70		0.888	22.5



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Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.838	0.12	19.33	19.70	1.089	0.913	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58			19.36	19.70	1.081	0.831	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.715	-0.04	19.27	19.70	1.104	0.789	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.465	-0.16	19.41	19.70	1.069	0.497	22.5
			Head Test D	)ata(100	%RB)						
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.796	0.10	19.39	19.70	1.074	0.855	22.5
			Body worn Test data	(Separa	te 15m	m 1RB	3)				
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.230	0.13	25.58	25.70	1.028	0.236	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.261	0.04	25.58	25.70	1.028	0.268	22.5
Back side - Band38 ULCA	20	QPSK 1_0	37901+38099/2585.1+260 4.9	1:1.58	0.207	-0.04	23.52	24.50	1.253	0.259	22.5
			Body worn Test data(	Separate	15mm	50%R	B)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.197	0.13	24.50	24.70	1.047	0.206	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.203	0.07	24.50	24.70	1.047	0.213	22.5
	-		Hotspot Test data(	Separate	10mm	1RB)					
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.198	0.05	19.44	19.70	1.062	0.210	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.241	-0.05	19.44	19.70	1.062	0.256	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.376	-0.12	19.44	19.70	1.062	0.399	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.046	-0.14	19.44	19.70	1.062	0.049	22.5
			Hotspot Test data(Se	eparate 1	0mm 5	50%RB	)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.200	0.05	19.41	19.70	1.069	0.214	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.235	-0.15	19.41	19.70	1.069	0.251	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.375	0.11	19.41	19.70	1.069	0.401	22.5
Left side - Band38 ULCA	20	QPSK 50_0	37901+38099 /2585.1+2604.9	1:1.58	0.334	-0.17	19.02	19.50	1.117	0.373	22.5
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.041	0.04	19.41	19.70	1.069	0.044	22.5
			Ant 4 Te	st Reco	rd						
					SAR	Powe	Conducted	Tune un	Scale	Scale	Liquid
Test position	вw	Test mode	Test ch./Frea.	Duty	SAR (W/kg		Conducted Power(dBm	Tune up	Scale d	d SAR	Liquid Temp.(℃
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	(W/kg		Conducted Power(dBm )		Scale d factor	d SAR 1-g	Liquid Temp.(℃ )
Test position	BW	Test mode		Cycle	(W/kg ) 1-g	r drift			d	d SAR	Liquid Temp.(℃ )
	-		Head Tes	Cycle t Data(1	( <b>W/kg</b> ) <b>1-g</b> RB)	r drift (dB)	Power(dBm )	Limit(dBm )	d factor	d SAR 1-g (W/kg)	Temp.(℃ )
Left cheek	20	QPSK 1_0	Head Tes 40620/2593	Cycle t Data(1 1:1.58	(W/kg ) 1-g RB) 0.382	r drift (dB)	Power(dBm ) 18.43	18.70	d factor	d SAR 1-g (W/kg)	Temp.(℃ ) 22.5
Left cheek Left tilted	20 20	QPSK 1_0 QPSK 1_0	Head Tes 40620/2593 40620/2593	Cycle t Data(1) 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319	0.09 -0.01	18.43 18.43	18.70 18.70	1.064 1.064	d SAR 1-g (W/kg) 0.407 0.339	Temp.(℃ ) 22.5 22.5
Left cheek Left tilted Right cheek	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	Head Tes 40620/2593 40620/2593 40620/2593	Cycle t Data(1 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498	0.09 -0.01	18.43 18.43 18.43	18.70 18.70 18.70	1.064 1.064 1.064	0.407 0.530	Temp.(℃ ) 22.5 22.5 22.5
Left cheek Left tilted	20 20	QPSK 1_0 QPSK 1_0	Head Tes 40620/2593 40620/2593 40620/2593 40620/2593	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734	0.09 -0.01	18.43 18.43	18.70 18.70	1.064 1.064	d SAR 1-g (W/kg) 0.407 0.339	Temp.(℃ ) 22.5 22.5
Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Head Tes 40620/2593 40620/2593 40620/2593 40620/2593 Head Test	Cycle  t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 Data(509	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB)	0.09 -0.01 0.00 0.13	18.43 18.43 18.43 18.43	18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064	0.407 0.339 0.781	22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Head Tes 40620/2593 40620/2593 40620/2593 40620/2593 Head Test I 40620/2593	t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 Data(509 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381	0.09 -0.01 0.00 0.13	18.43 18.43 18.43 18.43 18.43	18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.064	0.407 0.339 0.530 0.781	22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	Head Tes 40620/2593 40620/2593 40620/2593 40620/2593 Head Test   40620/2593 40620/2593	Cycle  t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 Data(509 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308	0.09 -0.01 0.00 0.13 -0.03 0.07	18.43 18.43 18.43 18.43 18.43	18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081	d SAR 1-g (W/kg) 0.407 0.339 0.530 0.781 0.412 0.333	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes 40620/2593 40620/2593 40620/2593 40620/2593 Head Test I 40620/2593 40620/2593 40620/2593	t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09	18.43 18.43 18.43 18.43 18.43 18.36 18.36	18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081	0.407 0.339 0.530 0.781 0.412 0.333 0.535	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593	t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted Right tilted	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01	18.43 18.43 18.43 18.43 18.43 18.36 18.36	18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099	t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted - Band38	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left toheek Left tilted Right cheek Right tilted - Band38 ULCA	20 20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.693	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 0.00	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.79	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.693 0.689 0.586	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 0.00 -0.09 0.08	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.36 18.31	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.50	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41055/2636.5	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.693 0.689 0.586 0.550	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 0.00 -0.09 0.08	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.31 18.31 18.30	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.50 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178 1.094 1.096	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.643	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41055/2636.5  41490/2680	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 (RB) 0.381 0.308 0.495 0.741 0.823 0.693 0.689 0.586 0.550 %RB)	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 0.00 -0.09 0.08	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.32 17.79 18.31 18.30 18.26	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.50 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178 1.094 1.096 1.107	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.643	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41055/2636.5  41490/2680  Head Test I	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.398 0.495 0.741 0.823 0.693 0.689 0.586 0.550 %RB)	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 0.00 -0.09 0.08 0.01	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.36 18.32 17.79 18.31 18.30 18.26	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.50 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178 1.094 1.096 1.107	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.643 0.609	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41490/2680  Head Test I	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.693 0.689 0.586 0.550 %RB) 0.728	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 -0.09 0.08 0.01	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.36 18.32 17.79 18.31 18.30 18.26	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178 1.094 1.096 1.107	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.643 0.609	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41055/2636.5  41490/2680  Head Test I  40620/2593  Body worn Test data	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.689 0.586 0.550 %RB) 0.728 te 15m 0.153	0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 -0.09 0.08 0.01 -0.03 m 1RB 0.10	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.36 18.32 17.79 18.31 18.30 18.26	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.081 1.091 1.178 1.094 1.096 1.107	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.609 0.784	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Head Tes  40620/2593  40620/2593  40620/2593  40620/2593  Head Test I  40620/2593  40620/2593  40620/2593  40620/2593  39750/2506  37901+38099 /2585.1+2604.9  40185/2549.5  41055/2636.5  41490/2680  Head Test I  40620/2593  Body worn Test data 40620/2593	Cycle t Data(1) 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	(W/kg ) 1-g RB) 0.382 0.319 0.498 0.734 6RB) 0.381 0.308 0.495 0.741 0.823 0.693 0.586 0.550 %RB) 0.728 te 15m 0.153 0.279	-0.03 -0.09 -0.01 0.00 0.13 -0.03 0.07 0.09 0.10 -0.01 -0.09 0.08 0.01 -0.03 m 1RE 0.10 -0.02	18.43 18.43 18.43 18.43 18.36 18.36 18.36 18.36 18.36 18.32 17.79 18.31 18.30 18.26	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70	1.064 1.064 1.064 1.064 1.081 1.081 1.081 1.091 1.178 1.094 1.096 1.107 1.076	0.407 0.339 0.530 0.781 0.412 0.333 0.535 0.801 0.898 0.816 0.754 0.609 0.784	Temp.(°C )  22.5 22.5 22.5 22.5 22.5 22.5 22.5 2



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			Body worn Test data(	Separate	2 15mm	า 50%F	RB)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.122	0.17	24.43	24.70	1.064	0.130	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.226	-0.03	24.43	24.70	1.064	0.240	22.5
			Hotspot Test data(	Separate	10mm	1RB)		-		•	
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.159	0.10	18.43	18.70	1.064	0.169	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.312	0.18	18.43	18.70	1.064	0.332	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.129	0.00	18.43	18.70	1.064	0.137	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.503	0.01	18.43	18.70	1.064	0.535	22.5
Top side - Band38 ULCA	20	QPSK 1_0	37901+38099 /2585.1+2604.9	1:1.58	0.428	-0.03	17.88	18.50	1.153	0.494	22.5
			Hotspot Test data(Se	eparate 1	10mm 5	50%RB	5)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.155	-0.09	18.36	18.70	1.081	0.168	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.314	-0.16	18.36	18.70	1.081	0.340	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.128	-0.01	18.36	18.70	1.081	0.138	22.5
Top side	20	QPSK 50 0	40620/2593	1:1.58	0.491	-0.09	18.36	18.70	1.081	0.531	22.5
			Ant 5 Te	st Reco	rd				•	•	
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg ) 1-g		Conducted Power(dBm )		Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃ )
			Head Tes	t Data(1	RB)						
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.076	0.15	25.56	25.70	1.033	0.078	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.057	0.19	25.56	25.70	1.033	0.059	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.091	-0.14	25.56	25.70	1.033	0.094	22.5
Right cheek - Band38 ULCA	20	QPSK 1_0	37901+38099 /2585.1+2604.9	1:1.58	0.066	0.07	23.54	24.50	1.247	0.082	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.046	-0.17	25.56	25.70	1.033	0.048	22.5
			Head Test I	Data(50°	%RB)						
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.058	0.16	24.47	24.70	1.054	0.061	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.045	-0.17	24.47	24.70	1.054	0.047	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.072	0.12	24.47	24.70	1.054	0.076	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.035	0.18	24.47	24.70	1.054	0.037	22.5
			Body worn Test data	a(Separa	te 15m	m 1RE	3)				
Front side	20	QPSK 1_0	40620/2593	1:1.58			25.56	25.70	1.033	0.132	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.161	-0.04	25.56	25.70	1.033	0.166	22.5
Back side - Band38 ULCA	20	QPSK 1_0	37901+38099 /2585.1+2604.9	1:1.58	0.131	0.03	23.54	24.50	1.247	0.163	22.5
			Body worn Test data(				B)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.104	-0.12	24.47	24.70	1.054	0.110	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.128	-0.06	24.47	24.70	1.054	0.135	22.5
			Hotspot Test data(								
Front side	20	QPSK 1_0	40620/2593	1:1.58			21.54	21.70		0.142	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58			21.54	21.70		0.166	22.5
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.060	0.03	21.54	21.70	1.038	0.062	22.5
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.365	0.01	21.54	21.70	1.038	0.379	22.5
Bottom side - Band38 ULCA	20	QPSK 1_0	37901+38099 /2585.1+2604.9	1:1.58	0.322	-0.14	20.99	21.50	1.125	0.362	22.5
			Hotspot Test data(Se	•			)				
Front side	20	QPSK 50_0	40620/2593	1:1.58			21.40	21.70	1.072	0.146	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.166	-0.02	21.40	21.70	1.072	0.178	22.5
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.061	0.03	21.40	21.70	1.072	0.065	22.5
Bottom side		QPSK 50_0	40620/2593	1:1.58	0.353	-0.16	21.40	21.70	1.072	0.378	22.5

Table 20: SAR of LTE Band 41 for Head and Body

Test Position	Channel/ Frequency	Measured SAR (1g)	1st Repeated	Ratio	2nd Repeated	3rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)



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Right cheek	40620/2593	0.913	0.908	1.005506608	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.11 SAR Result of LTE Band 48

LTE Band 48 SAR Test Record											
					Ant 6 Test	t Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				l	Head Test [	Data(1RB)					
Left cheek	20	QPSK 1_0	55830/3609	1:1.58	0.448	-0.09	14.52	15.00	1.117	0.500	22.8
Left tilted	20	QPSK 1_0	55830/3609	1:1.58	0.513	-0.06	14.52	15.00	1.117	0.573	22.8
Right cheek	20	QPSK 1_0	55830/3609	1:1.58	0.180	-0.10	14.52	15.00	1.117	0.201	22.8
Right tilted	20	QPSK 1_0	55830/3609	1:1.58	0.225	-0.05	14.52	15.00	1.117	0.251	22.8
				He	ead Test Da	ata(50%RB)	)				
Left cheek	20	QPSK 50_0	55830/3609	1:1.58	0.478	0.17	14.49	15.00	1.125	0.538	22.8
Left tilted	20	QPSK 50_0	55830/3609	1:1.58	0.535	0.04	14.49	15.00	1.125	0.602	22.8
Right cheek	20	QPSK 50_0	55830/3609	1:1.58	0.201	-0.16	14.49	15.00	1.125	0.226	22.8
Right tilted	20	QPSK 50_0	55830/3609	1:1.58	0.252	0.11	14.49	15.00	1.125	0.283	22.8
				Body worn		Separate 15					
Front side	20	QPSK 1_0	55830/3609	1:1.58	0.125	0.16	23.62	24.00	1.091	0.136	22.8
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.210	-0.09	23.62	24.00	1.091	0.229	22.8
			Вс	dy worn T	est data(Se	parate 15m	nm 50%RB)				
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.098	0.17	22.58	23.00	1.102	0.108	22.8
Back side	20	QPSK 50_0	55830/3609	1:1.58	0.168	-0.03	22.58	23.00	1.102	0.185	22.8
				Hotspot T	est data(Se	parate 10m	nm 1RB)				
Front side	20	QPSK 1_0	55830/3609	1:1.58	0.067	-0.07	14.52	15.00	1.117	0.075	22.8
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.100	0.01	14.52	15.00	1.117	0.112	22.8
Right side	20	QPSK 1_0	55830/3609	1:1.58	0.035	0.11	14.52	15.00	1.117	0.039	22.8
Top side	20	QPSK 1_0	55830/3609	1:1.58	0.142	0.15	14.52	15.00	1.117	0.159	22.8
			H	lotspot Tes	st data(Sep	arate 10mm	n 50%RB)				
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.064	0.05	14.49	15.00	1.125	0.072	22.8
Back side	20	QPSK 50_0	55830/3609	1:1.58	0.107	0.19	14.49	15.00	1.125	0.120	22.8
Right side	20	QPSK 50_0	55830/3609	1:1.58	0.039	0.03	14.49	15.00	1.125	0.044	22.8
Top side	20	QPSK 50_0	55830/3609	1:1.58	0.149	-0.15	14.49	15.00	1.125	0.168	22.8
					Ant 7 Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test [	Data(1RB)	,			,,	
Left cheek	20	QPSK 1 0	55830/3609	1:1.58	0.742	-0.15	17.19	17.50	1.074	0.797	22.8
Left tilted	20	QPSK 1 0	55830/3609	1:1.58	0.206	0.17	17.19	17.50	1.074	0.221	22.8
Right cheek	20	QPSK 1 0	55830/3609	1:1.58	0.110	-0.03	17.19	17.50	1.074	0.118	22.8
Right tilted	20	QPSK 1_0	55830/3609	1:1.58	0.068	-0.12	17.19	17.50	1.074	0.073	22.8
		_		Н	ead Test Da	ata(50%RB)	)		1	<u>.                                      </u>	
Left cheek	20	QPSK 50 0	55830/3609	1:1.58	0.756	0.03	16.97	17.50	1.130	0.854	22.8
Left cheek	20	QPSK 50 0	55340/3560	1:1.58	0.727	0.12	16.92	17.50	1.143	0.831	22.8
Left cheek	20	QPSK 50 0	56150/3641	1:1.58	0.655	0.10	16.88	17.50	1.153	0.756	22.8
Left cheek	20	QPSK 50_0	56640/3690	1:1.58	0.585	-0.02	16.90	17.50	1.148	0.672	22.8



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Left tilted	20	QPSK 50_0	55830/3609	1:1.58	0.204	0.19	16.97	17.50	1.130	0.230	22.8
Right cheek	20	QPSK 50_0	55830/3609	1:1.58	0.089	0.08	16.97	17.50	1.130	0.101	22.8
Right tilted	20	QPSK 50_0	55830/3609	1:1.58	0.068	-0.14	16.97	17.50	1.130	0.077	22.8
		T	T			ta(100%RB	1	1		1	
Left cheek	20	QPSK 100_0		1:1.58	0.724	-0.14	16.94	17.50	1.138	0.824	22.8
	ı	1		_		Separate 15				T T	
Front side	20	QPSK 1_0	55830/3609	1:1.58	0.122	-0.11	21.12	21.50	1.091	0.133	22.8
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.313	0.09	21.12	21.50	1.091	0.342	22.8
		0001/50 0				parate 15m		24.52	4.440		
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.201	0.00	20.92	21.50	1.143	0.230	22.8
Back side	20	QPSK 50_0	55830/3609	1:1.58	0.363	0.15	20.92	21.50	1.143	0.415	22.8
Fuent side		ODCK 4 O	FF020/2000			parate 10m		47.50	4.074	0.400	20.0
Front side	20	QPSK 1_0	55830/3609	1:1.58	0.114	0.16	17.19	17.50	1.074	0.122	22.8
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.181	0.16	17.19	17.50	1.074	0.194	22.8
Right side	20	QPSK 1_0	55830/3609	1:1.58	0.267	-0.10	17.19	17.50	1.074	0.287	22.8
Top side	20	QPSK 1_0	55830/3609	1:1.58	0.050	0.19	17.19	17.50	1.074	0.054	22.8
Front side	20	QPSK 50 0	55830/3609	1:1.58	0.113	arate 10mm -0.14	16.97	17.50	1.130	0.128	22.8
Back side	20	QPSK 50_0	55830/3609	1:1.58	0.113	-0.14	16.97	17.50	1.130	0.128	22.8
Right side	20	QPSK 50_0	55830/3609	1:1.58	0.167	-0.08	16.97	17.50	1.130	0.169	22.8
Top side	20	QPSK 50_0	55830/3609	1:1.58	0.294	-0.10	16.97	17.50	1.130	0.059	22.8
Top side	20	QF3K30_0	33030/3009	1.1.50	Ant 8 Test		10.91	17.50	1.130	0.059	22.0
					SAR	Power				Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
•			-	Cycle	1-g	(dB)	Power(dBm)	Limit(aBm)	factor	(W/kg)	Temp.(℃)
				l	Head Test [	Data(1RB)					
Left cheek	20	QPSK 1_0	55830/3609	1:1.58	0.078	0.05	23.71	24.00	1.069	0.083	22.8
Left tilted	20	QPSK 1_0	55830/3609	1:1.58	0.093	-0.11	23.71	24.00	1.069	0.099	22.8
Right cheek	20	QPSK 1_0	55830/3609	1:1.58	0.149	-0.18	23.71	24.00	1.069	0.159	22.8
Right tilted	20	QPSK 1_0	55830/3609	1:1.58	0.156	0.19	23.71	24.00	1.069	0.167	22.8
		T = = = : : : : :	T			ata(50%RB)				1 1	
Left cheek	20	QPSK 50_0	55830/3609	1:1.58	0.077	0.11	22.58	23.00	1.102	0.085	22.8
Left tilted	20	QPSK 50_0	55830/3609	1:1.58	0.074	-0.03	22.58	23.00	1.102	0.082	22.8
Right cheek	20	QPSK 50_0	55830/3609	1:1.58	0.132	0.15	22.58	23.00	1.102	0.145	22.8
Right tilted	20	QPSK 50_0	55830/3609	1:1.58	0.127	-0.18	22.58	23.00	1.102	0.140	22.8
Frant side	20	ODSK 1 0				Separate 15		24.00	1.060	0.057	22.0
Front side	20	QPSK 1_0	55830/3609	1:1.58 1:1.58	0.053 0.106	-0.08 0.06	23.71 23.71	24.00	1.069	0.057	22.8 22.8
Back side	20	QPSK 1_0	55830/3609			parate 15m		24.00	1.069	0.113	22.0
Front side	20	QPSK 50 0	55830/3609	1:1.58	0.043	-0.06	22.58	23.00	1.102	0.047	22.8
Back side	20	QPSK 50_0 QPSK 50_0	55830/3609	1:1.58	0.043	-0.06	22.58	23.00	1.102	0.047	22.8
Dack Side		QF3K3U_U	33030/3009			parate 10m		23.00	1.102	0.008	22.0
Front side	20	QPSK 1 0	55830/3609	1:1.58	0.042	-0.11	23.71	24.00	1.069	0.045	22.8
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.194	0.01	23.71	24.00	1.069	0.207	22.8
Left side	20	QPSK 1_0	55830/3609	1:1.58	0.084	0.01	23.71	24.00	1.069	0.090	22.8
Top side	20	QPSK 1_0	55830/3609	1:1.58	0.073	-0.02	23.71	24.00	1.069	0.078	22.8
. 55 5145						arate 10mm		0		0.070	
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.035	-0.09	22.58	23.00	1.102	0.039	22.8
Back side	20	QPSK 50 0	55830/3609	1:1.58	0.165	0.12	22.58	23.00	1.102	0.182	22.8
Left side	20	QPSK 50_0	55830/3609	1:1.58	0.062	-0.07	22.58	23.00	1.102	0.068	22.8
Top side	20	QPSK 50 0	55830/3609	1:1.58	0.058	-0.15	22.58	23.00	1.102	0.064	22.8
,					Ant 9 Test						
				Durtu	SAR	Power	Conducted	T	Castad	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)	Tune up	Scaled factor	SAR 1-g	Liquid Temp.(℃)
				- Juli	1-g	(dB)	. onc. (abili)	(abin)	iuotoi	(W/kg)	. cp.( C)



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					Head Test [	Data(1RB)							
Left cheek	20	QPSK 1 0	55830/3609	1:1.58	0.270	0.11	21.19	21.50	1.074	0.290	22.8		
Left tilted         20         QPSK 1_0         55830/3609         1:1.58         0.200         0.00         21.19         21.50         1.074         0.215         2           Right cheek         20         QPSK 1_0         55830/3609         1:1.58         0.463         -0.14         21.19         21.50         1.074         0.497         2           Right tilted         20         QPSK 1_0         55830/3609         1:1.58         0.348         0.01         21.19         21.50         1.074         0.374         2           Head Test Data(50%RB)           Left cheek         20         QPSK 50_0         55830/3609         1:1.58         0.225         0.12         21.11         21.50         1.094         0.246         2           Left tilted         20         QPSK 50_0         55830/3609         1:1.58         0.142         0.18         21.11         21.50         1.094         0.155         2           Right cheek         20         QPSK 50_0         55830/3609         1:1.58         0.276         -0.05         21.11         21.50         1.094         0.302         2           Right tilted         20         QPSK 1_0         55830/3609 </td <td>22.8</td>					22.8								
Left cheek         20         QPSK 1_0         55830/3609         1:1.58         0.270         0.11         21.19         21.50         1.074         0.290           Left tilted         20         QPSK 1_0         55830/3609         1:1.58         0.200         0.00         21.19         21.50         1.074         0.215           Right cheek         20         QPSK 1_0         55830/3609         1:1.58         0.463         -0.14         21.19         21.50         1.074         0.497           Right tilted         20         QPSK 1_0         55830/3609         1:1.58         0.463         -0.14         21.19         21.50         1.074         0.497           Right tilted         20         QPSK 50_0         55830/3609         1:1.58         0.225         0.12         21.11         21.50         1.094         0.246           Left tilted         20         QPSK 50_0         55830/3609         1:1.58         0.225         0.12         21.11         21.50         1.094         0.246           Left tilted         20         QPSK 50_0         55830/3609         1:1.58         0.387         0.07         21.11         21.50         1.094         0.423           Right cheek			22.8										
Right tilted	20	QPSK 1_0	55830/3609	1:1.58	0.348	0.01	21.19	21.50	1.074	0.374	22.8		
				He	ead Test Da	ata(50%RB)							
Left cheek	20	QPSK 50_0	55830/3609	1:1.58	0.225	0.12	21.11	21.50	1.094	0.246	22.8		
Left tilted	20	QPSK 50_0	55830/3609	1:1.58	0.142	0.18	21.11	21.50	1.094	0.155	22.8		
Right cheek	20	QPSK 50_0	55830/3609	1:1.58	0.387	0.07	21.11	21.50	1.094	0.423	22.8		
Right tilted	20	QPSK 50_0	55830/3609	1:1.58	0.276	-0.05	21.11	21.50	1.094	0.302	22.8		
				Body worn	Test data(S	Separate 15	mm 1RB)						
Front side	Front side 20 QPSK 1_0 55830/3609 1:1.58 0.108 0.08 23.23 23.50 1.064 0.115 22.8												
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.257	-0.05	23.23	23.50	1.064	0.273	22.8		
			Во	ody worn T	est data(Se	parate 15m	m 50%RB)						
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.084	0.03	22.09	22.50	1.099	0.092	22.8		
Back side	20	QPSK 50_0	55830/3609	1:1.58	0.214	0.12	22.09	22.50	1.099	0.235	22.8		
				Hotspot T	est data(Se	parate 10m	m 1RB)						
Front side	20	QPSK 1_0	55830/3609	1:1.58	0.171	0.00	20.74	21.00	1.062	0.182	22.8		
Back side	20	QPSK 1_0	55830/3609	1:1.58	0.513	-0.07	20.74	21.00	1.062	0.545	22.8		
Left side	20	QPSK 1_0	55830/3609	1:1.58	0.263	-0.17	20.74	21.00	1.062	0.279	22.8		
Top side	20	QPSK 1_0	55830/3609	1:1.58	0.086	-0.09	20.74	21.00	1.062	0.091	22.8		
			F	Hotspot Tes	st data(Sep	arate 10mm	50%RB)						
Front side	20	QPSK 50_0	55830/3609	1:1.58	0.158	-0.02	20.69	21.00	1.074	0.170	22.8		
Back side   20   QPSK 50_0   55830/3609   1:1.58   0.570   -0.01   20.69   21.00   1.074   0.612   22.8											22.8		
Left side	20	QPSK 50_0	55830/3609	1:1.58	0.250	0.06	20.69	21.00	1.074	0.268	22.8		
Top side	20	QPSK 50_0	55830/3609	1:1.58	0.097	0.10	20.69	21.00	1.074	0.104	22.8		

Table 21: SAR of LTE Band 48 for Head and Body.

#### 9.2.12 SAR Result of LTE Band 66

9.2.12 SAN Nest	111 (	, LIL D	and oo								
			LTE E	Band 66 S	SAR Test	Record					
				Ant 2 Te	est Reco	rd					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Tes	t Data(1F	RB)					
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.635	-0.10	18.53	18.70	1.040	0.660	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.092	0.05	18.53	18.70	1.040	0.096	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.620	-0.16	18.53	18.70	1.040	0.645	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.071	-0.12	18.53	18.70	1.040	0.074	22.7
			H	ead Test	Data(50%	6RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.662	-0.16	18.43	18.70	1.064	0.704	22.7
Left cheek - Band4 DLCA	20	QPSK 50_0	20175/1732.5	1:1	0.576	0.03	17.58	18.00	1.102	0.634	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.098	-0.03	18.43	18.70	1.064	0.104	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.628	0.09	18.43	18.70	1.064	0.668	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.073	-0.13	18.43	18.70	1.064	0.078	22.7
			Body worn	Test data	a(Separat	e 15mm	1RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.164	-0.01	21.98	22.20	1.052	0.173	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.154	-0.17	21.98	22.20	1.052	0.162	22.7
			Body worn T	est data(	Separate	15mm 5	0%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.179	0.15	21.97	22.20	1.054	0.189	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.161	-0.15	21.97	22.20	1.054	0.170	22.7
			Hotspot T	est data(	Separate	10mm 1	RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.237	-0.04	18.53	18.70	1.040	0.246	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.202	-0.03	18.53	18.70	1.040	0.210	22.7



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Division in	00	00014.0	400000/4745	4.4	0.440	0.04	40.50	40.70	4.040	0.400	00.7
Right side	20	QPSK 1_0	132322/1745	1:1	0.412	-0.04	18.53	18.70	1.040	0.428	22.7
	00	0001/50 0	Hotspot Tes	,	•	1		10.70	4 004	0.045	00.7
Front side	20		132322/1745	1:1	0.230	0.13	18.43	18.70	1.064	0.245	22.7
Back side	20	QPSK 50_0		1:1	0.205	0.02	18.43	18.70	1.064	0.218	22.7
Right side	20	_	132322/1745	1:1	0.425	-0.01	18.43	18.70	1.064	0.452	22.7
Right side - Band4 DLCA	20	QPSK 50_0	20175/1732.5	1:1	0.325	0.07	17.58	18.00	1.102	0.358	22.7
			1	Ant 3 Te	st Reco	1	1	1			ı
T4	DIA/	T 4 1 -	T4 -b /F	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	i est mode	Test ch./Freq.	Cycle	(W/kg) 1-g	drift (dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Liquid Temp.(℃)
				L Head Tes	-		<u> </u>	<u></u>		(VV/NG)	
Left cheek	20	QPSK 1 0	132322/1745	1:1	0.321	-0.05	19.02	19.20	1.042	0.335	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.321	0.17	19.02	19.20	1.042	0.333	22.7
	20		132322/1745		0.232	0.17	19.02	19.20	1.042	0.242	22.7
Right cheek	20	QPSK 1_0		1:1		1				1	22.7
Right cheek		QPSK 1_0	132072/1720 132072/1720	1:1	0.866	0.10	18.96	19.20	1.057	0.915	
Right cheek - Repeat SAR Right cheek - For Band4	20	QPSK 1_0	132072/1720	1:1	0.859	0.05	18.96	19.20	1.057	0.908	22.7
ENDC	20	QPSK 1_0	20175/1732.5	1:1	0.548	0.15	17.95	19.00	1.274	0.698	22.7
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.748	0.12	18.99	19.20	1.050	0.785	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.359	0.11	19.02	19.20	1.042	0.374	22.7
			H	ead Test	Data(50%	6RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.311	-0.11	18.99	19.20	1.050	0.326	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.227	-0.03	18.99	19.20	1.050	0.238	22.7
Right cheek	20	QPSK 50 0	132322/1745	1:1	0.820	-0.09	18.99	19.20	1.050	0.861	22.7
Right cheek	20	QPSK 50 0	132072/1720	1:1	0.856	0.15	18.93	19.20	1.064	0.911	22.7
Right cheek	20	QPSK 50 0	132572/1770	1:1	0.764	0.01	18.98	19.20	1.052	0.804	22.7
Right tilted	20	QPSK 50 0	132322/1745	1:1	0.361	-0.04	18.99	19.20	1.050	0.379	22.7
-		_	He	ad Test [	Data(100	%RB)					
Right cheek	20	QPSK 100 0	132322/1745	1:1	0.805	0.15	18.97	19.20	1.054	0.849	22.7
			Body worn	Test data	a(Separa	te 15mm	1RB)				
Front side	20	QPSK 1 0	132322/1745	1:1	0.279	0.12	25.57	25.70	1.030	0.287	22.7
Back side	20	QPSK 1 0	132322/1745	1:1	0.339	-0.06	25.57	25.70	1.030	0.349	22.7
Back side - For Band4 ENDC	20	QPSK 1_0	20175/1732.5	1:1	0.267	-0.08	24.50	25.50	1.259	0.336	22.7
			Body worn T	est data(	Separate	15mm 5	0%RB)		I.		
Front side	20	QPSK 50 0		1:1	0.227	0.12	24.47	24.70	1.054	0.239	22.7
Back side	20	QPSK 50 0		1:1	0.268	-0.17	24.47	24.70	1.054	0.283	22.7
Back side	20	Q1 01(00_0	Hotspot T				,	24.70	1.004	0.200	
Front side	20	QPSK 1 0	132322/1745	1:1	0.135	0.17	19.02	19.20	1.042	0.141	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.154	-0.18	19.02	19.20	1.042	0.141	22.7
Left side	20	QPSK 1_0	132322/1745	1:1	0.134	0.11	19.02	19.20	1.042	0.101	22.7
Left side - For Band4	20	_		1.1							
ENDC	20		20175/1732.5	1:1	0.225	-0.19	17.95	19.00	1.274	0.287	22.7
Top side	20	QPSK 1_0		1:1	0.091	-0.03	19.02	19.20	1.042	0.095	22.7
			Hotspot Te	st data(Se	eparate 1	0mm 50	%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.130	0.13	18.99	19.20	1.050	0.136	22.7
Back side	20	_	132322/1745	1:1	0.142	0.00	18.99	19.20	1.050	0.149	22.7
Left side	20	QPSK 50_0	132322/1745	1:1	0.279	-0.04	18.99	19.20	1.050	0.293	22.7
Top side	20	QPSK 50_0	132322/1745	1:1	0.088	-0.03	18.99	19.20	1.050	0.092	22.7
				Ant 5 Te	est Reco	rd					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Tes	t Data(1	RB)					
Left cheek	20	QPSK 1 0	132322/1745	1:1	0.148	-0.07	25.58	25.70	1.028	0.152	22.7
-				•	•		•	•	•	•	•



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Left tilted	20	QPSK 1_0	132322/1745	1:1	0.063	0.07	25.58	25.70	1.028	0.065	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.163	0.04	25.58	25.70	1.028	0.168	22.7
Right cheek - For Band4 ENDC	20	QPSK 1_0	20175/1732.5	1:1	0.127	-0.18	23.81	25.00	1.315	0.167	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.089	-0.03	25.58	25.70	1.028	0.091	22.7
			He	ead Test	Data(50%	RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.118	0.04	24.56	24.70	1.033	0.122	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.057	-0.12	24.56	24.70	1.033	0.059	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.131	0.13	24.56	24.70	1.033	0.135	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.068	0.06	24.56	24.70	1.033	0.070	22.7
			Body worn	Test data	a(Separat	e 15mm	1RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.470	0.04	25.58	25.70	1.028	0.483	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.530	-0.01	25.58	25.70	1.028	0.545	22.7
Back side - For Band4 ENDC	20	QPSK 1_0	20175/1732.5	1:1	0.369	-0.15	23.81	25.00	1.315	0.485	22.7
			Body worn T	est data(	Separate	15mm 50	0%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.364	0.18	24.56	24.70	1.033	0.376	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.435	-0.13	24.56	24.70	1.033	0.449	22.7
			Hotspot T	est data(	Separate	10mm 1	RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.372	0.01	21.99	22.20	1.050	0.390	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.389	80.0	21.99	22.20	1.050	0.408	22.7
Right side	20	QPSK 1_0	132322/1745	1:1	0.140	0.10	21.99	22.20	1.050	0.147	22.7
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.709	0.07	21.99	22.20	1.050	0.744	22.7
			Hotspot Tes	st data(Se	eparate 1	0mm 50%	%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.356	0.12	21.88	22.20	1.076	0.383	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.398	0.07	21.88	22.20	1.076	0.428	22.7
Right side	20	QPSK 50_0	132322/1745	1:1	0.125	-0.12	21.88	22.20	1.076	0.135	22.7
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.736	-0.01	21.88	22.20	1.076	0.792	22.7
Bottom side - For Band4 ENDC	20	QPSK 50_0	20175/1732.5	1:1	0.625	0.13	20.11	21.00	1.227	0.767	22.7

Table 22: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	132072/1720	0.866	0.859	1.00814901	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.1 SAR Result of 5G NR n2

	SA N2 SAR Test Record												
	Ant2 Test Record												
Test position BW. Modulation Test ch./Freq. Duty Cycle (W/kg) 1-g Conducted Power(dBm) Limit(dBm) Scaled Factor (W/kg) Scaled (W/kg) Temp.(°C)													
				Hea	d Test da	ta(1RB)							
Left cheek 20 QPSK 1_1 376000/1880 1:1 0.521 -0.05 17.26 17.50 1.057 <b>0.551</b> 22.8													
Left tilted	Left tilted 20 QPSK 1_1 376000/1880 1:1 0.091 -0.18 17.26 17.50 1.057 0.096 22.8												



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Right titled   20   QPSK 1, 1   376000/1880   1.1   0.061   0.01   1.7.26   17.50   1.057   0.064   22.8	Right cheek	20	QPSK 1 1	376000/1880	1:1	0.501	0.00	17.26	17.50	1.057	0.529	22.8
Left cheek   20 QPSK 50_28   3760001880   1:1 0.476		_										
Left Ittledek 20 QPSK 50_28 37600071880 1:1 0.476 0.13 17.16 17.50 1.081 0.515 22.8 Right cheek 20 QPSK 50_28 37600071880 1:1 0.058 -0.04 17.16 17.50 1.081 0.504 22.8 Right Left Ittled 20 QPSK 50_28 37600071880 1:1 0.058 -0.04 17.16 17.50 1.081 0.504 22.8 Right Left Ittled 20 QPSK 50_28 37600071880 1:1 0.058 -0.04 17.16 17.50 1.081 0.059 22.8 Separate Items Till 17.50 1.081 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091	Night tilted	20	QFSK I_I	37 0000/ 1000					17.50	1.037	0.004	22.0
Left tilled	I eft cheek	20	OPSK 50, 28	376000/1880			,	<b>,</b>	17 50	1 081	0.515	22.8
Right cheek		_										
Right tilled												
Body worn Test data(Separate 15mm 1RB)												
Front side			<u>  [   ].   [</u>								0.000	
Body worn Test data(Separate 15mm 50%RB)	Front side	20	QPSK 1 1						21.50	1.057	0.190	22.8
Front side	Back side	20	QPSK 1_1	376000/1880	1:1	0.169	-0.16	21.26	21.50	1.057	0.179	22.8
Back side   20				Body wo	orn Test	data(Sep	arate 15n	nm 50%RB)			•	
Hotspot Test data(Separate 10mm 1RB)	Front side	20	QPSK 50_28	376000/1880	1:1	0.179	-0.14	21.12	21.50	1.091	0.195	22.8
Front side	Back side	20	QPSK 50_28	376000/1880	1:1	0.164	-0.17	21.12	21.50	1.091	0.179	22.8
Back side   20					ot Test	data(Sepa	arate 10n	nm 1RB)				
Right side   20		20										
Hotspot Test data (Separate 10mm 50%RB)		20										
Front side   20   QPSK 50   28   376000/1880   1:1   0.148   0.01   17.16   17.50   1.081   0.147   22.8	Right side	20	QPSK 1_1						17.50	1.057	0.261	22.8
Back side   20			T			· · · · ·		,		1		
Right side     20		_										
Conducted   Cond												
Test position   BW.   Modulation   Test ch/Freq.   Duty Cycle   (W/kg)	Right side	20	QPSK 50_28	376000/1880				17.16	17.50	1.081	0.264	22.8
Test position		ı	1		Ar		1			İ	0	
Left cheek   20   QPSK 1_1   376000/1880   1:1   0.105   0.09   25.10   25.50   1.096   0.115   22.8	Test nosition	RW	Modulation	Test ch /Freg								
Head Test data(1RB)	rest position	<b></b>	modulation	rest on a req.	Cycle			Power(dBm)	Limit(dBm)	factor	(W/ka)	Temp.(℃)
Left cheek   20					Hea			· L			(3)	
Right cheek   20	Left cheek	20	QPSK 1 1	376000/1880		1		25.10	25.50	1.096	0.115	22.8
Right tilted   20	Left tilted	20	QPSK 1_1	376000/1880	1:1	0.073	-0.15	25.10	25.50	1.096	0.080	22.8
Head Test data(50%RB)   Left cheek   20 QPSK 50_28   376000/1880   1:1   0.090   0.00   24.89   25.50   1.151   0.104   22.8     Left tilted   20 QPSK 50_28   376000/1880   1:1   0.064   -0.08   24.89   25.50   1.151   0.074   22.8     Right cheek   20 QPSK 50_28   376000/1880   1:1   0.118   0.04   24.89   25.50   1.151   0.074   22.8     Right tilted   20 QPSK 50_28   376000/1880   1:1   0.058   -0.18   24.89   25.50   1.151   0.067   22.8     Right tilted   20 QPSK 50_28   376000/1880   1:1   0.058   -0.18   24.89   25.50   1.151   0.067   22.8     Body worn Test data(Separate 15mm 1RB)   Front side   20 QPSK 1_1   376000/1880   1:1   0.474   0.04   25.10   25.50   1.096   0.520   22.8     Back side   20 QPSK 1_1   376000/1880   1:1   0.474   0.04   25.10   25.50   1.096   0.363   22.8     Back side   20 QPSK 50_28   376000/1880   1:1   0.438   -0.08   24.89   25.50   1.151   0.504   22.8     Back side   20 QPSK 50_28   376000/1880   1:1   0.295   -0.18   24.89   25.50   1.151   0.339   22.8     Back side   20 QPSK 1_1   376000/1880   1:1   0.295   -0.18   24.89   25.50   1.151   0.339   22.8     Front side   20 QPSK 1_1   376000/1880   1:1   0.291   0.03   22.17   22.50   1.079   0.314   22.8     Back side   20 QPSK 1_1   376000/1880   1:1   0.358   0.12   22.17   22.50   1.079   0.386   22.8     Right side   20 QPSK 1_1   376000/1880   1:1   0.348   0.16   22.17   22.50   1.079   0.375   22.8     Bottom side   20 QPSK 1_1   376000/1880   1:1   0.775   0.18   22.17   22.50   1.079   0.355   22.8     Bottom side   20 QPSK 1_1   376000/1880   1:1   0.775   0.17   21.98   22.50   1.099   0.379   22.8     Bottom side   20 QPSK 50_28   376000/1880   1:1   0.775   0.17   21.98   22.50   1.099   0.379   22.8     Bottom side   20 QPSK 50_28   376000/1880   1:1   0.345   -0.11   22.09   22.50   1.099   0.400   22.8     Bottom side   20 QPSK 50_28   376000/1880   1:1   0.364   -0.17   22.09   22.50   1.099   0.400   22.8     Bottom side   20 QPSK 50_28   376000/1880   1:1   0.365   0.02   22.09   22.50   1.099   0.	Right cheek	20	QPSK 1_1	376000/1880	1:1	0.135	0.11	25.10	25.50	1.096	0.148	22.8
Left cheek	Right tilted	20	QPSK 1_1	376000/1880	1:1	0.061	-0.02	25.10	25.50	1.096	0.067	22.8
Left tilted   20 QPSK 50_28   376000/1880   1:1   0.064   -0.08   24.89   25.50   1.151   0.074   22.8					Head	Test data	(50%RB	,				
Right cheek   20 QPSK 50_28   376000/1880   1:1   0.118   0.04   24.89   25.50   1.151   0.136   22.8												
Right tilted   20   QPSK 50 28   376000/1880   1:1   0.058   -0.18   24.89   25.50   1.151   0.067   22.8												
Body worn Test data(Separate 15mm 1RB)   Front side   20												
Front side 20 QPSK 1_1 376000/1880 1:1 0.474 0.04 25.10 25.50 1.096 0.520 22.8  Back side 20 QPSK 1_1 376000/1880 1:1 0.331 -0.12 25.10 25.50 1.096 0.363 22.8  Body worn Test data (Separate 15mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.438 -0.08 24.89 25.50 1.151 0.504 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.295 -0.18 24.89 25.50 1.151 0.339 22.8  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.291 0.03 22.17 22.50 1.079 0.314 22.8  Back side 20 QPSK 1_1 376000/1880 1:1 0.358 0.12 22.17 22.50 1.079 0.386 22.8  Right side 20 QPSK 1_1 376000/1880 1:1 0.348 0.16 22.17 22.50 1.079 0.375 22.8  Bottom side 20 QPSK 1_1 376000/1880 1:1 0.792 0.18 22.17 22.50 1.079 0.855 22.8  Bottom side 20 QPSK 1_1 372000/1860 1:1 0.775 0.17 21.98 22.50 1.076 0.824 22.8  Bottom side 20 QPSK 1_1 380000/1900 1:1 0.758 -0.16 22.14 22.50 1.086 0.824 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.379 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.400 22.8  Right side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.400 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.400 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.400 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.400 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.401 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.3815 0.02 22.09 22.50 1.099 0.490 22.8  Bottom side-repeated 20 QPSK 50_28 376000/1880 1:1 0.8815 0.02 22.09 22.50 1.099 0.896 22.8	Right tilted	20	QPSK 50_28					•	25.50	1.151	0.067	22.8
Back side         20         QPSK 1_1         376000/1880         1:1         0.331         -0.12         25.10         25.50         1.096         0.363         22.8           Body worn Test data (Separate 15mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.438         -0.08         24.89         25.50         1.151         0.504         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.295         -0.18         24.89         25.50         1.151         0.339         22.8           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.291         0.03         22.17         22.50         1.079         0.314         22.8           Back side         20         QPSK 1_1         376000/1880         1:1         0.358         0.12         22.17         22.50         1.079         0.375         22.8           Bottom side         20         QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.375         22.8							1		00	1		
Body worn Test data (Separate 15mm 50%RB)												
Front side 20 QPSK 50_28 376000/1880 1:1 0.438 -0.08 24.89 25.50 1.151 0.504 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.295 -0.18 24.89 25.50 1.151 0.339 22.8  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.291 0.03 22.17 22.50 1.079 0.314 22.8  Back side 20 QPSK 1_1 376000/1880 1:1 0.358 0.12 22.17 22.50 1.079 0.386 22.8  Right side 20 QPSK 1_1 376000/1880 1:1 0.348 0.16 22.17 22.50 1.079 0.375 22.8  Bottom side 20 QPSK 1_1 376000/1880 1:1 0.792 0.18 22.17 22.50 1.079 0.855 22.8  Bottom side 20 QPSK 1_1 372000/1880 1:1 0.775 0.17 21.98 22.50 1.079 0.855 22.8  Bottom side 20 QPSK 1_1 380000/1900 1:1 0.758 -0.16 22.14 22.50 1.086 0.824 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.379 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.364 -0.17 22.09 22.50 1.099 0.400 22.8  Right side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.414 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.414 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.815 0.02 22.09 22.50 1.099 0.896 22.8  Bottom side-repeated 20 QPSK 50_28 376000/1880 1:1 0.807 0.13 22.09 22.50 1.099 0.887 22.8	Back side	20	QPSK 1_1						25.50	1.096	0.363	22.8
Back side         20 QPSK 50_28         376000/1880         1:1         0.295         -0.18         24.89         25.50         1.151         0.339         22.8           Hotspot Test data(Separate 10mm 1RB)           Front side         20 QPSK 1_1         376000/1880         1:1         0.291         0.03         22.17         22.50         1.079         0.314         22.8           Back side         20 QPSK 1_1         376000/1880         1:1         0.358         0.12         22.17         22.50         1.079         0.386         22.8           Right side         20 QPSK 1_1         376000/1880         1:1         0.348         0.16         22.17         22.50         1.079         0.375         22.8           Bottom side         20 QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.375         22.8           Bottom side         20 QPSK 1_1         376000/1880         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20 QPSK 50_28         376000/1880         1:1         0.758         -0.16         22.14         22.50         1.099	Frant side	20	ODSK EO 30						25.50	1 151	0.504	22.0
Hotspot Test data(Separate 10mm 1RB)   Front side   20												
Front side         20         QPSK 1_1         376000/1880         1:1         0.291         0.03         22.17         22.50         1.079         0.314         22.8           Back side         20         QPSK 1_1         376000/1880         1:1         0.358         0.12         22.17         22.50         1.079         0.386         22.8           Right side         20         QPSK 1_1         376000/1880         1:1         0.348         0.16         22.17         22.50         1.079         0.375         22.8           Bottom side         20         QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.855         22.8           Bottom side         20         QPSK 1_1         372000/1860         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1	Dack side	20	QPSK 50_20			•			25.50	1.151	0.339	22.0
Back side         20         QPSK 1_1         376000/1880         1:1         0.358         0.12         22.17         22.50         1.079         0.386         22.8           Right side         20         QPSK 1_1         376000/1880         1:1         0.348         0.16         22.17         22.50         1.079         0.375         22.8           Bottom side         20         QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.855         22.8           Bottom side         20         QPSK 1_1         372000/1860         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1	Front side	20	OPSK 1 1				1	1	22.50	1 079	0.314	22.8
Right side         20         QPSK 1_1         376000/1880         1:1         0.348         0.16         22.17         22.50         1.079         0.375         22.8           Bottom side         20         QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.855         22.8           Bottom side         20         QPSK 1_1         372000/1860         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880 </td <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>		_						+				
Bottom side         20         QPSK 1_1         376000/1880         1:1         0.792         0.18         22.17         22.50         1.079         0.855         22.8           Bottom side         20         QPSK 1_1         372000/1860         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.364         -0.17         22.09         22.50         1.099         0.400         22.8           Right side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.414         22.8           Bottom side-repeated         20         QPSK 50_28         37		_										
Bottom side         20         QPSK 1_1         372000/1860         1:1         0.775         0.17         21.98         22.50         1.127         0.874         22.8           Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.364         -0.17         22.09         22.50         1.099         0.400         22.8           Right side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880	-											
Bottom side         20         QPSK 1_1         380000/1900         1:1         0.758         -0.16         22.14         22.50         1.086         0.824         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.364         -0.17         22.09         22.50         1.099         0.400         22.8           Right side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880         1:1         0.807         0.13         22.09         22.50         1.099         0.887         22.8												
Hotspot Test data (Separate 10mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.345 -0.11 22.09 22.50 1.099 0.379 22.8  Back side 20 QPSK 50_28 376000/1880 1:1 0.364 -0.17 22.09 22.50 1.099 0.400 22.8  Right side 20 QPSK 50_28 376000/1880 1:1 0.377 -0.12 22.09 22.50 1.099 0.414 22.8  Bottom side 20 QPSK 50_28 376000/1880 1:1 0.815 0.02 22.09 22.50 1.099 0.896 22.8  Bottom side-repeated 20 QPSK 50_28 376000/1880 1:1 0.807 0.13 22.09 22.50 1.099 0.887 22.8		_										
Front side         20         QPSK 50_28         376000/1880         1:1         0.345         -0.11         22.09         22.50         1.099         0.379         22.8           Back side         20         QPSK 50_28         376000/1880         1:1         0.364         -0.17         22.09         22.50         1.099         0.400         22.8           Right side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880         1:1         0.807         0.13         22.09         22.50         1.099         0.887         22.8	Dotto.iii oldo		4, 5, 1, 1						00	1	U.UZ-	
Back side         20         QPSK 50_28         376000/1880         1:1         0.364         -0.17         22.09         22.50         1.099         0.400         22.8           Right side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880         1:1         0.807         0.13         22.09         22.50         1.099         0.887         22.8	Front side	20	QPSK 50 28						22 50	1.099	0.379	22 8
Right side         20         QPSK 50_28         376000/1880         1:1         0.377         -0.12         22.09         22.50         1.099         0.414         22.8           Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880         1:1         0.807         0.13         22.09         22.50         1.099         0.887         22.8												
Bottom side         20         QPSK 50_28         376000/1880         1:1         0.815         0.02         22.09         22.50         1.099         0.896         22.8           Bottom side-repeated         20         QPSK 50_28         376000/1880         1:1         0.807         0.13         22.09         22.50         1.099         0.887         22.8												
Bottom side-repeated 20 QPSK 50_28 376000/1880 1:1 0.807 0.13 22.09 22.50 1.099 0.887 22.8												
	Bottom side-repeated											
		-			1:1							



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Bottom side	20 QPSK 5	0_28 380000/1900	1:1	0.789	-0.14	21.93	22.50	1.140	0.900	22.8			
	Hotspot Test data (Separate 10mm 100%RB)												
Bottom side	20 QPSK 1	00_0 376000/1880	1:1	0.763	-0.11	21.95	22.50	1.135	0.866	22.8			

Table 23: SAR of 5G NR n2 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
rest Position	(MHz)	(1g)	SAR (1g)	Kalio	SAR (1g)	SAR (1g)
Bottom side	376000/1880	0.815	0.807	1.009913259	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.2 SAR Result of 5G NR n5

					SA N5 S	AR Test I	Record					
					Ant0	Test Rec	ord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
					Head <sup>-</sup>	Γest data(	1RB)					
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.255	0.08	24.39	25.00	1.151	0.293	22.6	
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.133	0.16	24.39	25.00	1.151	0.153	22.6	
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.156	0.12	24.39	25.00	1.151	0.180	22.6	
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.089	-0.10	24.39	25.00	1.151	0.102	22.6	
					Head Te	est data(50	)%RB)					
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.210	0.06	24.32	25.00	1.169	0.246	22.6	
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.103	0.18	24.32	25.00	1.169	0.120	22.6	
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.125	0.04	24.32	25.00	1.169	0.146	22.6	
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.069	0.07	24.32	25.00	1.169	0.081	22.6	
				Body w	orn Test c	lata(Sepa	rate 15mm 1R	(B)				
Front side 20 QPSK 1_1 167300/836.5 1:1 0.160 -0.04 24.39 25.00 1.151 0.184 22.6												
Back side	20	QPSK 1_1	167300/836.5	1:1	0.155	0.11	24.39	25.00	1.151	0.178	22.6	
				Body wo	rn Test da	ta(Separa	te 15mm 50%	RB)				
Front side	20	QPSK 50_28	167300/836.5	1:1	0.106	-0.17	24.32	25.00	1.169	0.124	22.6	
Back side	20	QPSK 50_28	167300/836.5	1:1	0.133	-0.19	24.32	25.00	1.169	0.156	22.6	
				Hotsp	ot Test da	ta(Separa	te 10mm 1RB	)				
Front side	20	QPSK 1_1	167300/836.5	1:1	0.209	-0.04	24.39	25.00	1.151	0.241	22.6	
Back side	20	QPSK 1_1	167300/836.5	1:1	0.271	0.18	24.39	25.00	1.151	0.312	22.6	
Left side	20	QPSK 1_1	167300/836.5	1:1	0.247	0.11	24.39	25.00	1.151	0.284	22.6	
Bottom side	20	QPSK 1_1	167300/836.5	1:1	0.201	-0.04	24.39	25.00	1.151	0.231	22.6	
				Hotspot	Test data	(Separate	e 10mm 50%F					
Front side			167300/836.5	1:1	0.176	0.12	24.32	25.00	1.169	0.206	22.6	
Back side			167300/836.5	1:1	0.249	-0.03	24.32	25.00	1.169	0.291	22.6	
Left side	20	QPSK 50_28	167300/836.5	1:1	0.243	0.01	24.32	25.00	1.169	0.284	22.6	
Bottom side	20	QPSK 50_28	167300/836.5	1:1	0.172	-0.05	24.32	25.00	1.169	0.201	22.6	
					Ant1	Test Rec	ord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
					Head 7	Test data(	1RB)					
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.678	-0.19	20.85	21.50	1.161	0.787	22.6	
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.093	0.05	20.85	21.50	1.161	0.108	22.6	
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.527	-0.17	20.85	21.50	1.161	0.612	22.6	
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.095	-0.06	20.85	21.50	1.161	0.110	22.6	



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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	Head Test data(50%RB)												
					Head Te	est data(50	)%RB)						
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.720	0.09	20.78	21.50	1.180	0.850	22.6		
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.095	-0.12	20.78	21.50	1.180	0.112	22.6		
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.555	0.11	20.78	21.50	1.180	0.655	22.6		
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.106	0.18	20.78	21.50	1.180	0.125	22.6		
					Head Te	st data(10	0%RB)						
Left cheek	20	QPSK 100_0	167300/836.5	1:1	0.693	-0.15	20.71	21.50	1.199	0.831	22.6		
				Body w	orn Test d	lata(Sepai	ate 15mm 1R	B)					
Front side	Front side         20         QPSK 1_1         167300/836.5         1:1         0.452         0.15         24.16         25.00         1.213         0.548         22.6           Back side         20         QPSK 1_1         167300/836.5         1:1         0.473         -0.06         24.16         25.00         1.213         0.574         22.6												
Back side	20	QPSK 1_1	167300/836.5	1:1	0.473	-0.06	24.16	25.00	1.213	0.574	22.6		
			Е	Body wor	n Test dat	a (Separa	te 15mm 50%	RB)					
Front side	20	QPSK 50_28	167300/836.5	1:1	0.362	0.07	24.14	25.00	1.219	0.441	22.6		
Back side	20	QPSK 50_28	167300/836.5	1:1	0.383	-0.13	24.14	25.00	1.219	0.467	22.6		
				Hotsp	ot Test da	ta(Separa	te 10mm 1RB	)					
Front side	20	QPSK 1_1	167300/836.5	1:1	0.284	-0.01	20.85	21.50	1.161	0.330	22.6		
Back side	20	QPSK 1_1	167300/836.5	1:1	0.294	0.14	20.85	21.50	1.161	0.341	22.6		
Left side	20	QPSK 1_1	167300/836.5	1:1	0.350	-0.04	20.85	21.50	1.161	0.407	22.6		
				Hotspot	Test data	(Separate	10mm 50%R	(B)					
Front side	20	QPSK 50_28	167300/836.5	1:1	0.305	0.07	20.78	21.50	1.180	0.360	22.6		
Back side	20	QPSK 50_28	167300/836.5	1:1	0.308	0.18	20.78	21.50	1.180	0.364	22.6		
Left side	20	QPSK 50_28	167300/836.5	1:1	0.364	0.03	20.78	21.50	1.180	0.430	22.6		

Table 24: SAR of 5G NR n5 for Head and Body.

#### 9.2.3 SAR Result of 5G NR n7

9.2.3 SAN NE	2.3 SAR Result of 5G NR n7  SA N7 SAR Test Record													
				SA N7	SAR Tes	t Record	k							
				An	t2 Test R	ecord								
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
				Hea	d Test dat	ta(1RB)								
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.451	-0.15	17.58	17.70	1.028	0.464	22.5			
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.095	0.04	17.58	17.70	1.028	0.098	22.5			
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.803	-0.07	17.58	17.70	1.028	0.825	22.5			
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.064	0.16	17.58	17.70	1.028	0.066	22.5			
				Head	Test data	(50%RB)								
Left cheek														
Left tilted														
Right cheek	40	QPSK 108_54	507000/2535	1:1	0.853	0.04	17.42	17.70	1.067	0.910	22.5			
Right cheek-repeated	40	QPSK 108_54	507000/2535	1:1	0.846	0.11	17.42	17.70	1.067	0.902	22.5			
Right tilted	40	QPSK 108_54	507000/2535	1:1	0.060	-0.02	17.42	17.70	1.067	0.064	22.5			
				Head <sup>-</sup>	Test data(	100%RB	)							
Right cheek	40	QPSK 216_0	507000/2535	1:1	0.817	-0.05	16.41	16.70	1.069	0.873	22.5			
			Body w	vorn Tes	t data(Se	parate 15	imm 1RB)							
Front side	40	QPSK 1_1	507000/2535	1:1	0.082	-0.02	19.09	19.20	1.026	0.084	22.5			
Back side	40	QPSK 1_1	507000/2535	1:1	0.079	-0.16	19.09	19.20	1.026	0.081	22.5			
			Body wo	rn Test	data(Sepa	arate 15m	nm 50%RB)							
Front side	40	QPSK 108_54	507000/2535	1:1	0.083	-0.03	18.97	19.20	1.054	0.088	22.5			
Back side	40	QPSK 108_54	507000/2535	1:1	0.084	0.19	18.97	19.20	1.054	0.089	22.5			
			Hotsp	ot Test	data(Sepa	arate 10m	ım 1RB)							
Front side	40	QPSK 1_1	507000/2535	1:1	0.149	0.17	17.58	17.70	1.028	0.153	22.5			
Back side	40	QPSK 1_1	507000/2535	1:1	0.139	0.13	17.58	17.70	1.028	0.143	22.5			



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	,	,			1	,					
Right side	40	QPSK 1_1	507000/2535	1:1	0.348	-0.14	17.58	17.70	1.028	0.358	22.5
		,	•	Test da		ate 10mn	n 50%RB)	,			
Front side	_	QPSK 108_54		1:1	0.141	0.14	17.42	17.70	1.067	0.150	22.5
Back side		QPSK 108_54		1:1	0.146	0.12	17.42	17.70	1.067	0.156	22.5
Right side	40	QPSK 108_54	507000/2535	1:1	0.309	0.17	17.42	17.70	1.067	0.330	22.5
				An	t3 Test R	ecord		r			
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)			SAR 1-g	Temp.(℃)
	_			Llaa	1-g	(dB)		` `		(W/kg)	
Left cheek	40	QPSK 1 1	507000/2535	1:1	d Test dat 0.132	0.13	16.40	16.70	1.072	0.141	22.5
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.132	-0.02	16.40	16.70	1.072	0.141	22.5
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.103	0.02	16.40	16.70	1.072	0.110	22.5
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.473	-0.07	16.40	16.70	1.072	0.307	22.5
Right tilled	40	QFSK I_I	307000/2333		Test data		10.40	10.70	1.072	0.234	22.5
Left cheek	40	QPSK 108 54	507000/2535	1:1	0.135	-0.12	16.37	16.70	1.079	0.146	22.5
Left tilted		QPSK 108_54		1:1	0.135	-0.12	16.37	16.70	1.079	0.146	22.5
Right cheek	_	_	507000/2535	1:1	0.513	0.06	16.37	16.70	1.079	0.104	22.5
Right tilted	40	QPSK 108_54		1:1	0.242	-0.01	16.37	16.70	1.079	0.333	22.5
Night tilled	40	QF3K 100_34					mm 1RB)	10.70	1.079	0.201	22.5
Front side	40	QPSK 1_1	507000/2535	1:1	0.468	-0.17	25.58	25.70	1.028	0.481	22.5
Back side	40	QPSK 1_1	507000/2535	1:1	0.503	0.17	25.58	25.70	1.028	0.461	22.5
Dack side	70	QI OIT I_I				_	m 50%RB)	20.70	1.020	0.017	22.0
Front side	40	QPSK 108 54	•	1:1	0.453	0.11	25.55	25.70	1.035	0.469	22.5
Back side	40	QPSK 108_54	507000/2535	1:1	0.469	-0.10	25.55	25.70	1.035	0.485	22.5
Dack side	1 40	Q1 010 100_04			data(Sepa	!		25.70	1.000	0.400	22.0
Front side	40	QPSK 1 1	507000/2535	1:1	0.118	0.15	16.40	16.70	1.072	0.126	22.5
Back side	40	QPSK 1_1	507000/2535	1:1	0.132	0.19	16.40	16.70	1.072	0.141	22.5
Left side	40	QPSK 1 1	507000/2535	1:1	0.226	-0.12	16.40	16.70	1.072	0.242	22.5
Top side	40	QPSK 1 1	507000/2535	1:1	0.010	-0.01	16.40	16.70	1.072	0.011	22.5
. 00 0.00		<u> </u>					n 50%RB)			0.0	
Front side	40	QPSK 108 54	507000/2535	1:1	0.113	-0.03	16.37	16.70	1.079	0.122	22.5
Back side	40			1:1	0.127	0.11	16.37	16.70	1.079	0.137	22.5
Left side	40		507000/2535	1:1	0.213	0.01	16.37	16.70	1.079	0.230	22.5
Top side	40			1:1	0.008	0.11	16.37	16.70	1.079	0.009	22.5
. op slad	1.0	<u> </u>	00.000,2000		t5 Test R			10110		0.000	
					SAR	Power		_	L	Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)	Tune up	Scaled	SAR 1-g	Liquid Temp.(℃)
				Cycle	1-g	(dB)	Power (dBill)	Liiiiit(ubiii)	iactor	(W/kg)	remp.(C)
				Hea	d Test da	ta(1RB)	1	ı	1		
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.117	-0.06	25.41	25.70	1.069	0.125	22.5
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.091	0.15	25.41	25.70	1.069	0.097	22.5
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.197	-0.02	25.41	25.70	1.069	0.211	22.5
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.048	0.04	25.41	25.70	1.069	0.051	22.5
	-	1			Test data	, ,	1	Т	_		T
Left cheek		QPSK 108_54		1:1	0.107	-0.11	25.32	25.70	1.091	0.117	22.5
Left tilted	_	QPSK 108_54		1:1	0.086	0.01	25.32	25.70	1.091	0.094	22.5
Right cheek	_	QPSK 108_54		1:1	0.174	0.14	25.32	25.70	1.091	0.190	22.5
Right tilted	40	QPSK 108_54		1:1	0.035	0.11	25.32	25.70	1.091	0.038	22.5
		0.0011111					mm 1RB)				
Front side	40	QPSK 1_1	507000/2535	1:1	0.358	-0.06	25.41	25.70	1.069	0.383	22.5
Back side	40	QPSK 1_1	507000/2535	1:1	0.511	-0.03	25.41	25.70	1.069	0.546	22.5
	٦	la nauk kara i i i					m 50%RB)		1		
Front side Back side	_	QPSK 108_54 QPSK 108_54		1:1 1:1	0.307 0.494	-0.13 -0.07	25.32 25.32	25.70 25.70	1.091	0.335	22.5 22.5



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	Hotspot Test data(Separate 10mm 1RB)											
			Hotsp	ot Test	data(Sepa	arate 10m	m 1RB)					
Front side	40	QPSK 1_1	507000/2535	1:1	0.191	-0.10	19.53	19.70	1.040	0.199	22.5	
Back side	40	QPSK 1_1	507000/2535	1:1	0.276	0.11	19.53	19.70	1.040	0.287	22.5	
Right side	40	QPSK 1_1	507000/2535	1:1	0.211	0.17	19.53	19.70	1.040	0.219	22.5	
Bottom side	40	QPSK 1_1	507000/2535	1:1	0.415	-0.14	19.53	19.70	1.040	0.432	22.5	
			Hotspot	Test da	ata (Separ	ate 10mm	n 50%RB)					
Front side	40	QPSK 108_54	507000/2535	1:1	0.201	-0.06	19.40	19.70	1.072	0.215	22.5	
Back side	40	QPSK 108_54	507000/2535	1:1	0.293	-0.18	19.40	19.70	1.072	0.314	22.5	
Right side	40	QPSK 108_54	507000/2535	1:1	0.220	0.07	19.40	19.70	1.072	0.236	22.5	
Bottom side	40	QPSK 108_54	507000/2535	1:1	0.420	-0.02	19.40	19.70	1.072	0.450	22.5	

Table 25: SAR of 5G NR n7 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	507000/2535	0.853	0.846	1.008274232	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.4 SAR Result of 5G NR n41

				SA N4	1 SAR Te	st Record	d				
				An	t2 Test R	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test dat	a(1RB)					
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.463	0.05	18.56	18.70	1.033	0.478	22.5
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.073	0.07	18.56	18.70	1.033	0.075	22.5
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.744	-0.12	18.56	18.70	1.033	0.768	22.5
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.045	0.05	18.56	18.70	1.033	0.046	22.5
				Head	Test data	(50%RB)					
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.480	0.02	18.47	18.70	1.054	0.506	22.5
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.070	0.09	18.47	18.70	1.054	0.074	22.5
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.839	-0.07	18.47	18.70	1.054	0.885	22.5
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.058	0.01	18.47	18.70	1.054	0.061	22.5
				Head <sup>-</sup>	Test data(	100%RB)	1				
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.782	0.01	17.28	17.70	1.102	0.861	22.5
			Body v	vorn Tes	t data(Se	parate 15	mm 1RB)				,
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.105	-0.03	19.80	20.20	1.096	0.115	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.119	-0.15	19.80	20.20	1.096	0.130	22.5
			Body wo	rn Test	data(Sepa	rate 15m	m 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.101	-0.04	19.64	20.20	1.138	0.115	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.108	-0.14	19.64	20.20	1.138	0.123	22.5
			Hotsp	ot Test	data(Sepa	rate 10m	m 1RB)				,
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.155	0.02	18.56	18.70	1.033	0.160	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.157	-0.10	18.56	18.70	1.033	0.162	22.5
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.404	-0.11	18.56	18.70	1.033	0.417	22.5
			Hotspot	t Test da	ıta (Separa	ate 10mm	50 <sup>%</sup> RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.162	-0.12	18.47	18.70	1.054	0.171	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.167	0.17	18.47	18.70	1.054	0.176	22.5
Right side	100	QPSK 135_69	518598/2592.99	1:1	0.431	0.09	18.47	18.70	1.054	0.454	22.5



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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				An	t3 Test R	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			1	Hea	d Test dat	a(1RB)			, ,		,
Left cheek	100		518598/2592.99	1:1	0.095	0.13	18.73	19.20	1.114	0.106	22.5
Left tilted	100		518598/2592.99	1:1	0.068	0.13	18.73	19.20	1.114	0.076	22.5
Right cheek	100		518598/2592.99	1:1	0.347	0.01	18.73	19.20	1.114	0.387	22.5
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.155	-0.05	18.73	19.20	1.114	0.173	22.5
	1.00	0001/100	I- , o- oo , o- o o o		Test data	,	1000	10.00			1
Left cheek			518598/2592.99	1:1	0.146	0.15	18.66	19.20	1.132	0.165	22.5
Left tilted			518598/2592.99	1:1	0.117	-0.06	18.66	19.20	1.132	0.132	22.5
Right cheek	_		518598/2592.99	1:1	0.453	-0.17	18.66	19.20	1.132	0.513	22.5
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.184	0.11	18.66	19.20	1.132	0.208	22.5
Front side	100	QPSK 1 1	518598/2592.99		t data(Ser		25.46	25.70	1.057	0.200	22.5
	100		518598/2592.99	1:1 1:1	0.265 0.273	0.17 -0.01	25.46	25.70 25.70	1.057 1.057	0.280 0.289	22.5 22.5
Back side	1100	QPSK 1_1					m 50%RB)	25.70	1.057	0.209	22.3
Front side	100	QPSK 135 69	518598/2592.99	1:1	0.183	0.18	25.33	25.70	1.089	0.199	22.5
Back side			518598/2592.99	1:1	0.103	-0.08	25.33	25.70	1.089	0.208	22.5
Duck side	1.00	G. 51. 100_09			data(Sepa			20.70	1.000	0.200	
Front side	100	QPSK 1 1	518598/2592.99	1:1	0.108	0.00	18.73	19.20	1.114	0.120	22.5
Back side	100		518598/2592.99	1:1	0.119	-0.13	18.73	19.20	1.114	0.133	22.5
Left side	100		518598/2592.99	1:1	0.197	-0.08	18.73	19.20	1.114	0.220	22.5
Top side	100	QPSK 1 1	518598/2592.99	1:1	0.048	-0.06	18.73	19.20	1.114	0.053	22.5
	1	<u> </u>			ita (Separa						
Front side	100	QPSK 135 69	518598/2592.99	1:1	0.120	-0.01	18.66	19.20	1.132	0.136	22.5
Back side	100	QPSK 135 69	518598/2592.99	1:1	0.128	0.13	18.66	19.20	1.132	0.145	22.5
Left side	100	QPSK 135 69	518598/2592.99	1:1	0.246	-0.12	18.66	19.20	1.132	0.279	22.5
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.057	-0.14	18.66	19.20	1.132	0.065	22.5
				An	t4 Test R	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test dat				!	(**************************************	ļ
Left cheek	100	QPSK 1 1	518598/2592.99	1:1	0.463	0.16	17.84	18.20	1.086	0.503	22.5
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.554	0.00	47.04	18.20	1.086	0.602	22.5
Right cheek	100					0.03	17.84	10.20		0.002	0
		QPSK 1_1	518598/2592.99	1:1	0.602	-0.17	17.84	18.20	1.086	0.654	22.5
Right tilted	100	QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99	1:1 1:1			1		1.086 1.086		
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.602	-0.17 -0.19	17.84	18.20		0.654	22.5
Right tilted  Left cheek	100	QPSK 1_1		1:1	0.602 0.768	-0.17 -0.19	17.84 17.84 17.58	18.20		0.654	22.5
J	100 100 100	QPSK 1_1 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head	0.602 0.768 Test data 0.370 0.442	-0.17 -0.19 (50%RB)	17.84 17.84 17.58 17.58	18.20 18.20 18.20 18.20	1.086 1.153 1.153	0.654 0.834 0.427 0.510	22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek	100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02	17.84 17.84 17.58 17.58 17.58	18.20 18.20 18.20 18.20 18.20	1.086 1.153 1.153 1.153	0.654 0.834 0.427 0.510 0.691	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted	100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05	17.84 17.84 17.58 17.58 17.58 17.58	18.20 18.20 18.20 18.20	1.086 1.153 1.153	0.654 0.834 0.427 0.510	22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data(	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB)	17.84 17.84 17.58 17.58 17.58 17.58	18.20 18.20 18.20 18.20 18.20 18.20	1.086 1.153 1.153 1.153 1.153	0.654 0.834 0.427 0.510 0.691 0.828	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek	100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data( 0.686	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08	17.84 17.84 17.58 17.58 17.58 17.58	18.20 18.20 18.20 18.20 18.20	1.086 1.153 1.153 1.153	0.654 0.834 0.427 0.510 0.691	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted	100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v	1:1 Head 1:1 1:1 1:1 Head 1:1 vorn Tes	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data( 0.686 tt data(Ser	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15	17.84 17.84 17.58 17.58 17.58 17.58 17.44 mm 1RB)	18.20 18.20 18.20 18.20 18.20 18.20	1.086 1.153 1.153 1.153 1.153 1.191	0.654 0.834 0.427 0.510 0.691 0.828	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted	100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1 vorn Tes	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data 0.686 t data(Sep 0.507	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15 -0.13	17.84 17.84 17.58 17.58 17.58 17.58 17.44 mm 1RB) 25.31	18.20 18.20 18.20 18.20 18.20 18.20 18.20	1.086 1.153 1.153 1.153 1.153 1.191 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted  Right tilted  Front side Back side	100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1 vorn Tes 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data 0.686 st data(Sep 0.507 0.989	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15i -0.13 0.06	17.84 17.84 17.58 17.58 17.58 17.58 17.44 mm 1RB) 25.31 25.31	18.20 18.20 18.20 18.20 18.20 18.20 18.20 25.70	1.086 1.153 1.153 1.153 1.153 1.191 1.094 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817 0.555 1.082	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1 Head 1:1 Head 1:1 torn Tes 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data( 0.686 st data(Sep 0.507 0.989 0.984	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15i -0.13 0.06 0.01	17.84 17.84 17.58 17.58 17.58 17.58 17.44 mm 1RB) 25.31 25.31 25.31	18.20 18.20 18.20 18.20 18.20 18.20 18.20 25.70 25.70 25.70	1.153 1.153 1.153 1.153 1.153 1.191 1.094 1.094 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817 0.555 1.082	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side Back side-repeated Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 509202/2546.01	1:1 Head 1:1 1:1 1:1 1:1 Head 1:1 vorn Tes 1:1 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data 0.686 st data(Sep 0.507 0.989 0.984 0.828	-0.17 -0.19 (50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15i -0.13 0.06 0.01 0.10	17.84 17.84 17.58 17.58 17.58 17.44 mm 1RB) 25.31 25.31 25.31 25.31	18.20 18.20 18.20 18.20 18.20 18.20 25.70 25.70 25.70 25.70	1.153 1.153 1.153 1.153 1.153 1.191 1.094 1.094 1.094 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817 0.555 1.082 1.076 0.906	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1 Vorn Tes 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data 0.686 t data(Sep 0.507 0.989 0.984 0.828 0.748	-0.17 -0.19 50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15i -0.13 0.06 0.01 0.10 -0.04	17.84 17.84 17.58 17.58 17.58 17.44 mm 1RB) 25.31 25.31 25.31 25.31 25.31	18.20 18.20 18.20 18.20 18.20 18.20 18.20 25.70 25.70 25.70	1.153 1.153 1.153 1.153 1.153 1.191 1.094 1.094 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817 0.555 1.082	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side Back side-repeated Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1  QPSK 135_69  QPSK 135_69  QPSK 135_69  QPSK 270_0  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	1:1 Head 1:1 1:1 1:1 Head 1:1 Vorn Tes 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.602 0.768 Test data 0.370 0.442 0.599 0.718 Test data 0.686 t data(Sep 0.507 0.989 0.984 0.828 0.748	-0.17 -0.19 50%RB) -0.05 -0.09 0.02 0.05 100%RB) 0.08 parate 15i -0.13 0.06 0.01 0.10 -0.04	17.84 17.84 17.58 17.58 17.58 17.44 mm 1RB) 25.31 25.31 25.31 25.31	18.20 18.20 18.20 18.20 18.20 18.20 25.70 25.70 25.70 25.70	1.153 1.153 1.153 1.153 1.153 1.191 1.094 1.094 1.094 1.094	0.654 0.834 0.427 0.510 0.691 0.828 0.817 0.555 1.082 1.076 0.906	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5



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Back side   100 QPSK 135 69  528000/2840   1:1   0.863   0.07   25.25   25.70   1.109   0.865   22.5													
Back side   100   QPSK 170   0   18598/2592.99   1.1   0.906   0.18   24.03   24.70   1.167   1.057   22.5	Back side	100	QPSK 135_69	509202/2546.01	1:1	0.863	0.07	25.25	25.70	1.109	0.957	22.5	
Back side	Back side	100	QPSK 135 69	528000/2640	1:1	0.618	-0.13	25.25	25.70	1.109	0.685	22.5	
Hotspot Test data(Separate 10mm 1RB)				Body wor	n Test d	ata (Sepa	rate 15mr	m 100%RB)		•			
Front side	Back side	100	QPSK 270_0	518598/2592.99	1:1	0.906	0.18	24.03	24.70	1.167	1.057	22.5	
Back side		•		Hotsp	ot Test	data(Sepa	rate 10m	m 1RB)					
Left side	Front side	100	QPSK 1_1	518598/2592.99	1:1	0.185	-0.01	17.84	18.20	1.086	0.201	22.5	
Top side	Back side	100	QPSK 1_1	518598/2592.99	1:1	0.358	0.12	17.84	18.20	1.086	0.389	22.5	
Hotspot Test data (Separate 10mm 50%RB)	Left side	100	QPSK 1_1	518598/2592.99	1:1	0.081	0.11	17.84	18.20	1.086	0.088	22.5	
Front side   100   QPSK 135   69   518598/2592.99   1:1   0.182   -0.12   17.58   18.20   1.153   0.210   22.5	Top side	100	QPSK 1_1	518598/2592.99	1:1	0.586	0.01	17.84	18.20	1.086	0.637	22.5	
Back side   100   QPSK 135   69   518598/2592.99   1:1   0.330   0.19   17.58   18.20   1.153   0.381   22.5				Hotspot	t Test da	ita (Separa	ate 10mm	1 50%RB)					
Left side   100   QPSK 135_69   518598/2592.99   1:1   0.089   -0.10   17.58   18.20   1.153   0.103   22.5	Front side	100	QPSK 135_69	518598/2592.99	1:1	0.182	-0.12	17.58	18.20	1.153	0.210	22.5	
Top side	Back side	100	QPSK 135_69	518598/2592.99	1:1	0.330	0.19	17.58	18.20	1.153	0.381	22.5	
Conducted   Cond	Left side	100	QPSK 135_69	518598/2592.99	1:1	0.089	-0.10	17.58	18.20	1.153	0.103	22.5	
Test position	Top side	100	QPSK 135_69	518598/2592.99	1:1	0.477	0.19	17.58	18.20	1.153	0.550	22.5	
Test position					Ar	t5 Test R	ecord						
Left cheek   100   QPSK 1_1   518598/2592.99   1:1   0.108   0.18   25.57   25.70   1.030   0.111   22.5					Duty			Conducted	Tungun	Soolod		Liquid	
Head Test data(1RB)	Test position	BW.	Modulation	Test ch./Freq.							SAR 1-g	_	
Left cheek								i ower(abiii)	Liiiii(aDiii)	luctor	(W/kg)	10p.(0)	
Left tilted			T	1		1		T		T			
Right cheek   100													
Right tilted   100   QPSK 1_1   518598/2592.99   1:1   0.054   0.07   25.57   25.70   1.030   0.056   22.5		_											
Head Test data(50%RB)			_									4	
Left cheek         100         QPSK 135_69 518598/2592.99         1:1         0.115         0.00         25.53         25.70         1.040         0.120         22.5           Left tilted         100         QPSK 135_69 518598/2592.99         1:1         0.080         -0.18         25.53         25.70         1.040         0.083         22.5           Right cheek         100         QPSK 135_69 518598/2592.99         1:1         0.163         -0.13         25.53         25.70         1.040         0.070         22.5           Body worn Test data(Separate 15mm 1RB)           Front side         100         QPSK 1_1         518598/2592.99         1:1         0.283         -0.13         25.57         25.70         1.030         0.292         22.5           Body worn Test data(Separate 15mm 1RB)           Front side         100         QPSK 1_1         518598/2592.99         1:1         0.338         -0.03         25.57         25.70         1.030         0.292         22.5           Body worn Test data (Separate 15mm 1RB)           Front side         100         QPSK 135_69         518598/2592.99         1:1         0.252         -0.04         25.53         25.70         1.040 <td>Right tilted</td> <td>100</td> <td>QPSK 1_1</td> <td>518598/2592.99</td> <td></td> <td></td> <td></td> <td>25.57</td> <td>25.70</td> <td>1.030</td> <td>0.056</td> <td>22.5</td>	Right tilted	100	QPSK 1_1	518598/2592.99				25.57	25.70	1.030	0.056	22.5	
Left tilted         100 QPSK 135_69 518598/2592.99         1:1         0.080         -0.18         25.53         25.70         1.040         0.083         22.5           Right cheek         100 QPSK 135_69 518598/2592.99         1:1         0.163         -0.13         25.53         25.70         1.040         0.170         22.5           Right tilted         100 QPSK 135_69 518598/2592.99         1:1         0.053         -0.11         25.53         25.70         1.040         0.055         22.5           Body worn Test data(Separate 15mm 1RB)           Front side         100 QPSK 1_1 518598/2592.99         1:1         0.283         -0.13         25.57         25.70         1.030         0.292         22.5           Back side         100 QPSK 1_1 518598/2592.99         1:1         0.338         -0.03         25.57         25.70         1.030         0.348         22.5           Body worn Test data (Separate 15mm 178)           Front side         100 QPSK 135_69518598/2592.99         1:1         0.252         -0.04         25.53         25.70         1.040         0.262         22.5           Back side         100 QPSK 1_1 518598/2592.99         1:1         0.148         -0.02         <			ı	1			` <u>'</u>	1		T		1	
Right cheek												-	
Right tilted 100 QPSK 135_69 518598/2592.99 1:1 0.053 -0.11 25.53 25.70 1.040 0.055 22.5  Body worn Test data(Separate 15mm 1RB)  Front side 100 QPSK 1_1 518598/2592.99 1:1 0.283 -0.13 25.57 25.70 1.030 0.292 22.5  Back side 100 QPSK 1_1 518598/2592.99 1:1 0.338 -0.03 25.57 25.70 1.030 0.348 22.5  Body worn Test data (Separate 15mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.252 -0.04 25.53 25.70 1.040 0.262 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.353 0.02 25.53 25.70 1.040 0.367 22.5  Hotspot Test data(Separate 10mm 1RB)  Front side 100 QPSK 1_1 518598/2592.99 1:1 0.148 -0.02 19.49 19.70 1.050 0.155 22.5  Back side 100 QPSK 1_1 518598/2592.99 1:1 0.174 -0.13 19.49 19.70 1.050 0.183 22.5  Right side 100 QPSK 1_1 518598/2592.99 1:1 0.078 -0.12 19.49 19.70 1.050 0.082 22.5  Bottom side 100 QPSK 1_1 518598/2592.99 1:1 0.376 0.14 19.49 19.70 1.050 0.395 22.5  Hotspot Test data (Separate 10mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.376 0.14 19.49 19.70 1.050 0.395 22.5  Hotspot Test data (Separate 10mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.138 0.02 19.36 19.70 1.081 0.149 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.168 0.03 19.36 19.70 1.081 0.182 22.5  Right side 100 QPSK 135_69 518598/2592.99 1:1 0.071 0.16 19.36 19.70 1.081 0.077 22.5		_	_										
Body worn Test data(Separate 15mm 1RB)   Front side   100			_									1	
Front side 100 QPSK 1_1 518598/2592.99 1:1 0.283 -0.13 25.57 25.70 1.030 0.292 22.5  Back side 100 QPSK 1_1 518598/2592.99 1:1 0.338 -0.03 25.57 25.70 1.030 0.348 22.5  Body worn Test data (Separate 15mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.252 -0.04 25.53 25.70 1.040 0.262 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.353 0.02 25.53 25.70 1.040 0.367 22.5  Hotspot Test data(Separate 10mm 1RB)  Front side 100 QPSK 1_1 518598/2592.99 1:1 0.148 -0.02 19.49 19.70 1.050 0.155 22.5  Back side 100 QPSK 1_1 518598/2592.99 1:1 0.174 -0.13 19.49 19.70 1.050 0.183 22.5  Right side 100 QPSK 1_1 518598/2592.99 1:1 0.078 -0.12 19.49 19.70 1.050 0.082 22.5  Bottom side 100 QPSK 1_1 518598/2592.99 1:1 0.376 0.14 19.49 19.70 1.050 0.395 22.5  Hotspot Test data (Separate 10mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.138 0.02 19.36 19.70 1.081 0.149 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.168 0.03 19.36 19.70 1.081 0.182 22.5  Right side 100 QPSK 135_69 518598/2592.99 1:1 0.168 0.03 19.36 19.70 1.081 0.182 22.5  Right side 100 QPSK 135_69 518598/2592.99 1:1 0.071 0.16 19.36 19.70 1.081 0.077 22.5	Right tilted	100	QPSK 135_69			!			25.70	1.040	0.055	22.5	
Back side         100         QPSK 1_1         518598/2592.99         1:1         0.338         -0.03         25.57         25.70         1.030         0.348         22.5           Body worn Test data (Separate 15mm 50%RB)           Front side         100         QPSK 135_69 518598/2592.99         1:1         0.252         -0.04         25.53         25.70         1.040         0.262         22.5           Back side         100         QPSK 135_69 518598/2592.99         1:1         0.353         0.02         25.53         25.70         1.040         0.262         22.5           Hotspot Test data(Separate 10mm 1RB)           Front side         100         QPSK 1_1         518598/2592.99         1:1         0.148         -0.02         19.49         19.70         1.050         0.155         22.5           Back side         100         QPSK 1_1         518598/2592.99         1:1         0.174         -0.13         19.49         19.70         1.050         0.183         22.5           Bottom side         100         QPSK 1_1         518598/2592.99         1:1         0.078         -0.12         19.49         19.70         1.050         0.395         22.5 <th c<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>ı</td><td></td><td>1</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>ı</td> <td></td> <td>1</td>								· · · · · · · · · · · · · · · · · · ·		ı		1
Body worn Test data (Separate 15mm 50%RB)  Front side		_											
Front side	Back side	100	QPSK 1_1						25.70	1.030	0.348	22.5	
Back side 100 QPSK 135_69 518598/2592.99 1:1 0.353 0.02 25.53 25.70 1.040 0.367 22.5  Hotspot Test data(Separate 10mm 1RB)  Front side 100 QPSK 1_1 518598/2592.99 1:1 0.148 -0.02 19.49 19.70 1.050 0.155 22.5  Back side 100 QPSK 1_1 518598/2592.99 1:1 0.174 -0.13 19.49 19.70 1.050 0.183 22.5  Right side 100 QPSK 1_1 518598/2592.99 1:1 0.078 -0.12 19.49 19.70 1.050 0.082 22.5  Bottom side 100 QPSK 1_1 518598/2592.99 1:1 0.376 0.14 19.49 19.70 1.050 0.395 22.5  Hotspot Test data (Separate 10mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.138 0.02 19.36 19.70 1.081 0.149 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.168 0.03 19.36 19.70 1.081 0.182 22.5  Right side 100 QPSK 135_69 518598/2592.99 1:1 0.071 0.16 19.36 19.70 1.081 0.077 22.5			ı			· · · · ·		, , , , , , , , , , , , , , , , , , , ,		1		1	
Hotspot Test data(Separate 10mm 1RB)  Front side			_									<b>-</b>	
Front side         100         QPSK 1_1         518598/2592.99         1:1         0.148         -0.02         19.49         19.70         1.050         0.155         22.5           Back side         100         QPSK 1_1         518598/2592.99         1:1         0.174         -0.13         19.49         19.70         1.050         0.183         22.5           Right side         100         QPSK 1_1         518598/2592.99         1:1         0.078         -0.12         19.49         19.70         1.050         0.082         22.5           Bottom side         100         QPSK 1_1         518598/2592.99         1:1         0.376         0.14         19.49         19.70         1.050         0.082         22.5           Hotspot Test data (Separate 10mm 50%RB)           Front side         100         QPSK 135_69         518598/2592.99         1:1         0.138         0.02         19.36         19.70         1.081         0.149         22.5           Back side         100         QPSK 135_69         518598/2592.99         1:1         0.168         0.03         19.36         19.70         1.081         0.182         22.5           Right side         100	Back side	100	QPSK 135_69						25.70	1.040	0.367	22.5	
Back side         100         QPSK 1_1         518598/2592.99         1:1         0.174         -0.13         19.49         19.70         1.050         0.183         22.5           Right side         100         QPSK 1_1         518598/2592.99         1:1         0.078         -0.12         19.49         19.70         1.050         0.082         22.5           Bottom side         100         QPSK 1_1         518598/2592.99         1:1         0.376         0.14         19.49         19.70         1.050         0.395         22.5           Hotspot Test data (Separate 10mm 50%RB)           Front side         100         QPSK 135_69         518598/2592.99         1:1         0.138         0.02         19.36         19.70         1.081         0.149         22.5           Back side         100         QPSK 135_69         518598/2592.99         1:1         0.168         0.03         19.36         19.70         1.081         0.182         22.5           Right side         100         QPSK 135_69         518598/2592.99         1:1         0.071         0.16         19.36         19.70         1.081         0.077         22.5			ı										
Right side         100         QPSK 1_1         518598/2592.99         1:1         0.078         -0.12         19.49         19.70         1.050         0.082         22.5           Bottom side         100         QPSK 1_1         518598/2592.99         1:1         0.376         0.14         19.49         19.70         1.050         0.395         22.5           Hotspot Test data (Separate 10mm 50%RB)           Front side         100         QPSK 135_69 518598/2592.99         1:1         0.138         0.02         19.36         19.70         1.081         0.149         22.5           Back side         100         QPSK 135_69 518598/2592.99         1:1         0.168         0.03         19.36         19.70         1.081         0.182         22.5           Right side         100         QPSK 135_69 518598/2592.99         1:1         0.071         0.16         19.36         19.70         1.081         0.077         22.5			_										
Bottom side 100 QPSK 1_1 518598/2592.99 1:1 0.376 0.14 19.49 19.70 1.050 0.395 22.5  Hotspot Test data (Separate 10mm 50%RB)  Front side 100 QPSK 135_69 518598/2592.99 1:1 0.138 0.02 19.36 19.70 1.081 0.149 22.5  Back side 100 QPSK 135_69 518598/2592.99 1:1 0.168 0.03 19.36 19.70 1.081 0.182 22.5  Right side 100 QPSK 135_69 518598/2592.99 1:1 0.071 0.16 19.36 19.70 1.081 0.077 22.5			_									1	
Hotspot Test data (Separate 10mm 50%RB)  Front side			_									<b>-</b>	
Front side         100 QPSK 135_69 518598/2592.99         1:1         0.138         0.02         19.36         19.70         1.081         0.149         22.5           Back side         100 QPSK 135_69 518598/2592.99         1:1         0.168         0.03         19.36         19.70         1.081         0.182         22.5           Right side         100 QPSK 135_69 518598/2592.99         1:1         0.071         0.16         19.36         19.70         1.081         0.077         22.5	Bottom side	100	QPSK 1_1						19.70	1.050	0.395	22.5	
Back side         100 QPSK 135_69         518598/2592.99         1:1         0.168         0.03         19.36         19.70         1.081         0.182         22.5           Right side         100 QPSK 135_69         518598/2592.99         1:1         0.071         0.16         19.36         19.70         1.081         0.077         22.5			r							1		T	
Right side 100 QPSK 135_69 518598/2592.99 1:1 0.071 0.16 19.36 19.70 1.081 0.077 22.5	Front side	_	_		1:1	0.138	0.02		19.70	1.081		t	
Bottom side   100   OPSK 135 69 518598/2592 99  1·1   0.384   0.03   19.36   19.70   1.081   0.445   22.5		_											
Table 26. SAR of 5G NR n41 for Head and Body	Bottom side				1:1	0.384	0.03	19.36	19.70	1.081	0.415	22.5	

Table 26: SAR of 5G NR n41 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	OAIT (19)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	518598/2592.99	0.989	0.984	1.005081301	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).



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4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

### 9.2.5 SAR Result of 5G NR n48

				S	A N48 SAF						
					Ant6 Tes	st Record		,			
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	40	QPSK 1_1	641666/3624.99	1:1	0.589	0.10	13.20	14.00	1.202	0.708	22.8
Left tilted	40	QPSK 1_1	641666/3624.99	1:1	0.698	-0.01	13.20	14.00	1.202	0.839	22.8
Left tilted	40	QPSK 1_1	638000/3570	1:1	0.664	0.00	13.01	14.00	1.256	0.834	22.8
Left tilted	40	QPSK 1_1	645332/3679.98	1:1	0.593	0.17	13.16	14.00	1.213	0.720	22.8
Right cheek	40		641666/3624.99	1:1	0.250	0.02	13.20	14.00	1.202	0.301	22.8
Right tilted	40	QPSK 1 1	641666/3624.99	1:1	0.343	0.11	13.20	14.00	1.202	0.412	22.8
				H	Head Test	data(50%F	RB)				•
Left cheek	40	QPSK 50 28	641666/3624.99	1:1	0.540	-0.07	13.13	14.00	1.222	0.660	22.8
Left tilted	40	QPSK 50_28	641666/3624.99	1:1	0.618	0.06	13.13	14.00	1.222	0.755	22.8
Right cheek	40	QPSK 50 28	641666/3624.99	1:1	0.217	0.06	13.13	14.00	1.222	0.265	22.8
Right tilted	40	QPSK 50 28	641666/3624.99	1:1	0.324	-0.17	13.13	14.00	1.222	0.396	22.8
				H	Head Test	data(50%F	RB)				•
Left tilted	40	QPSK 100 0	641666/3624.99	1:1	0.563	-0.14	12.96	14.00	1.271	0.715	22.8
			E	Body wori	n Test data	(Separate	15mm 1RB)				
Front side	40	QPSK 1 1	641666/3624.99	1:1	0.322	-0.17	23.78	24.50	1.180	0.380	22.8
Back side	40	QPSK 1 1	641666/3624.99	1:1	0.587	-0.08	23.78	24.50	1.180	0.693	22.8
			Во	dy worn	Test data(S	Separate 1	5mm 50%RB)	)			•
Front side	40	QPSK 50 28	641666/3624.99	1:1	0.239	-0.01	23.74	24.50	1.191	0.285	22.8
Back side	40	QPSK 50 28	641666/3624.99	1:1	0.455	0.19	23.74	24.50	1.191	0.542	22.8
		<u> </u>	,	Hotspot '	Test data(S	Separate 1	0mm 1RB)				
Front side	40	QPSK 1 1	641666/3624.99	1:1	0.112	0.14	13.20	14.00	1.202	0.135	22.8
Back side	40	QPSK 1 1	641666/3624.99	1:1	0.166	0.08	13.20	14.00	1.202	0.200	22.8
Right side	40	QPSK 1 1	641666/3624.99	1:1	0.057	-0.05	13.20	14.00	1.202	0.069	22.8
Top side	40		641666/3624.99	1:1	0.227	0.12	13.20	14.00	1.202	0.273	22.8
·		<u> </u>		otspot Te	est data (Se	eparate 10	mm 50%RB)	•			I.
Front side	40	QPSK 50 28	641666/3624.99	1:1	0.103	-0.07	13.13	14.00	1.222	0.126	22.8
Back side	40	QPSK 50 28	641666/3624.99	1:1	0.161	0.00	13.13	14.00	1.222	0.197	22.8
Right side	40	QPSK 50 28	641666/3624.99	1:1	0.055	0.01	13.13	14.00	1.222	0.067	22.8
Top side			641666/3624.99	1:1	0.214	0.02	13.13	14.00	1.222	0.261	22.8
			,	-		st Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
				- Julie	1-g	(dB)	` ′	Lillia (GDIII)	iactor	(W/kg)	remp.(C)
			1			t data(1RE					
Left cheek	40		641666/3624.99	1:1	0.497	-0.19	13.68	14.00	1.076	0.535	22.8
Left tilted	40		641666/3624.99	1:1	0.196	-0.07	13.68	14.00	1.076	0.211	22.8
Right cheek	40		641666/3624.99	1:1	0.050	-0.17	13.68	14.00	1.076	0.054	22.8
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.061	-0.08	13.68	14.00	1.076	0.066	22.8
				H	Head Test of	,	,				7
Left cheek			641666/3624.99	1:1	0.506	-0.02	13.67	14.00	1.079	0.546	22.8
Left tilted		_	641666/3624.99	1:1	0.214	-0.01	13.67	14.00	1.079	0.231	22.8
Right cheek			641666/3624.99	1:1	0.052	0.09	13.67	14.00	1.079	0.056	22.8
Right tilted	40	QPSK 50_28	641666/3624.99	1:1	0.059	-0.03	13.67	14.00	1.079	0.064	22.8
			E	Body wor	n Test data	(Separate	15mm 1RB)				
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.095	-0.15	16.69	17.00	1.074	0.102	22.8



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		1	, ,		ı	T.		•	1		
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.178	0.15	16.69	17.00	1.074	0.191	22.8
				dy worn <sup>-</sup>	rest data (S	Separate 1	5mm 50%RB)				
Front side	40	QPSK 50_28	641666/3624.99	1:1	0.088	0.00	16.66	17.00	1.081	0.095	22.8
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.169	0.17	16.66	17.00	1.081	0.183	22.8
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.124	-0.17	13.68	14.00	1.076	0.133	22.8
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.187	-0.07	13.68	14.00	1.076	0.201	22.8
Right side	40	QPSK 1 1	641666/3624.99	1:1	0.298	-0.06	13.68	14.00	1.076	0.321	22.8
Top side	40	QPSK 1 1	641666/3624.99	1:1	0.051	-0.14	13.68	14.00	1.076	0.055	22.8
			Н	otspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	40	QPSK 50 28	641666/3624.99	1:1	0.098	-0.15	13.67	14.00	1.079	0.106	22.8
Back side	40	QPSK 50 28	641666/3624.99	1:1	0.180	-0.12	13.67	14.00	1.079	0.194	22.8
Right side	40	QPSK 50 28	641666/3624.99	1:1	0.289	-0.12	13.67	14.00	1.079	0.312	22.8
Top side	40	QPSK 50 28	641666/3624.99	1:1	0.046	-0.16	13.67	14.00	1.079	0.050	22.8
•						st Record					
					SAR	Power		_		Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
•			•	Cycle	1-g	(dB)	Power(dBm)	Limit(aBm)	factor	(W/kg)	Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	40	QPSK 1_1	641666/3624.99	1:1	0.147	-0.15	22.80	24.50	1.479	0.217	22.8
Left tilted	40	QPSK 1_1	641666/3624.99	1:1	0.155	-0.18	22.80	24.50	1.479	0.229	22.8
Right cheek	40	QPSK 1_1	641666/3624.99	1:1	0.295	-0.03	22.80	24.50	1.479	0.436	22.8
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.213	-0.17	22.80	24.50	1.479	0.315	22.8
				ŀ	Head Test	data(50%F	RB)				
Left cheek	40	QPSK 50_28	641666/3624.99	1:1	0.119	-0.07	22.72	24.50	1.507	0.179	22.8
Left tilted	40	QPSK 50 28	641666/3624.99	1:1	0.125	0.15	22.72	24.50	1.507	0.188	22.8
Right cheek	40	QPSK 50 28	641666/3624.99	1:1	0.265	-0.18	22.72	24.50	1.507	0.399	22.8
Right tilted	40	QPSK 50 28	641666/3624.99	1:1	0.185	0.07	22.72	24.50	1.507	0.279	22.8
				Body wor	n Test data	(Separate	15mm 1RB)				Į.
Front side	40	QPSK 1 1	641666/3624.99	1:1	0.055	0.07	22.80	24.50	1.479	0.081	22.8
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.290	-0.01	22.80	24.50	1.479	0.429	22.8
		<u> </u>		dy worn	Test data(S	Separate 1	5mm 50%RB)				•
Front side	40	QPSK 50 28	641666/3624.99	1:1	0.039	0.14	22.72	24.50	1.507	0.059	22.8
Back side	40		641666/3624.99	1:1	0.215	0.01	22.72	24.50	1.507	0.324	22.8
		_		Hotspot	Test data(S	Separate 1	0mm 1RB)				•
Front side	40	QPSK 1 1	641666/3624.99	1:1	0.084	0.02	22.80	24.50	1.479	0.124	22.8
Back side	40		641666/3624.99	1:1	0.497	-0.14	22.80	24.50	1.479	0.735	22.8
Left side	40	QPSK 1 1	641666/3624.99	1:1	0.202	-0.03	22.80	24.50	1.479	0.299	22.8
Top side	40	_	641666/3624.99	1:1	0.183	0.15	22.80	24.50	1.479	0.271	22.8
							mm 50%RB)		_		
Front side	40	QPSK 50 28	641666/3624.99	•	0.079	0.14	22.72	24.50	1.507	0.119	22.8
Back side			641666/3624.99	1:1	0.483	-0.10	22.72	24.50	1.507	0.728	22.8
Left side			641666/3624.99	1:1	0.187	-0.11	22.72	24.50	1.507	0.282	22.8
Top side			641666/3624.99	1:1	0.175	0.06	22.72	24.50	1.507	0.264	22.8
., -,			,			st Record					
				<b>D</b> :	SAR	Power		_		Scaled	12
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)	Tune up	Scaled	SAR 1-g	Liquid
-				Сусіе	1-g	(dB)	rower(abm)	Lilliu(abin)	factor	(W/kg)	Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	40	QPSK 1_1	641666/3624.99	1:1	0.318	0.18	16.02	17.00	1.253	0.398	22.8
Left tilted	40	QPSK 1_1	641666/3624.99	1:1	0.188	-0.08	16.02	17.00	1.253	0.236	22.8
Right cheek	40	QPSK 1_1	641666/3624.99	1:1	0.559	-0.14	16.02	17.00	1.253	0.701	22.8
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.368	0.17	16.02	17.00	1.253	0.461	22.8
			•	ŀ	lead Test	data(50%F	•				
Left cheek	40	QPSK 50 28	641666/3624.99		0.335	0.08	15.75	17.00	1.334	0.447	22.8



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Left tilted											
Right tilted   40 QPSK 50_28 641666/3624.99   1:1   0.380   -0.18   15.75   17.00   1.334   0.507   22.8	Left tilted	40	QPSK 50_28 641666/3624.99	1:1	0.195	-0.01	15.75	17.00	1.334	0.260	22.8
Body worn Test data (Separate 15mm 1RB)	Right cheek	40	QPSK 50_28 641666/3624.99	1:1	0.583	-0.11	15.75	17.00	1.334	0.777	22.8
Front side	Right tilted	40	QPSK 50_28 641666/3624.99	1:1	0.380	-0.18	15.75	17.00	1.334	0.507	22.8
Back side		•	i i	Body wor	n Test data	(Separate	15mm 1RB)				
Back side	Front side	40	QPSK 1_1 641666/3624.99	1:1	0.343	-0.10	21.89	23.00	1.291	0.443	22.8
Back side 40 QPSK 1_1 645332/3679.98 1:1 0.683 -0.19 21.80 23.00 1.318 0.900 22.8  Body worn Test data (Separate 15mm 50%RB)  Front side 40 QPSK 50_28 641666/3624.99 1:1 0.258 0.14 21.75 23.00 1.334 0.344 22.8  Back side 40 QPSK 50_28 641666/3624.99 1:1 0.696 0.08 21.75 23.00 1.334 0.928 22.8  Back side 40 QPSK 50_28 638000/3570 1:1 0.627 -0.16 21.83 23.00 1.309 0.821 22.8  Back side 40 QPSK 50_28 645332/3679.98 1:1 0.589 -0.01 21.75 23.00 1.334 0.785 22.8  Back side 40 QPSK 100_0641666/3624.99 1:1 0.669 0.07 20.72 22.00 1.343 0.898 22.8  Hotspot Test data (Separate 15mm 100%RB)  Front side 40 QPSK 1_1 641666/3624.99 1:1 0.115 0.10 15.37 16.50 1.297 0.149 22.8  Back side 40 QPSK 1_1 641666/3624.99 1:1 0.452 -0.06 15.37 16.50 1.297 0.586 22.8  Top side 40 QPSK 1_1 641666/3624.99 1:1 0.170 -0.07 15.37 16.50 1.297 0.221 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 40 QPSK 50_28 641666/3624.99 1:1 0.170 -0.07 15.37 16.50 1.297 0.221 22.8  Top side 40 QPSK 1_1 641666/3624.99 1:1 0.10 -0.07 15.37 16.50 1.297 0.088 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 40 QPSK 50_28 641666/3624.99 1:1 0.100 -0.05 15.37 16.50 1.297 0.088 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 40 QPSK 50_28 641666/3624.99 1:1 0.120 -0.15 15.20 16.50 1.349 0.162 22.8  Back side 40 QPSK 50_28 641666/3624.99 1:1 0.489 0.05 15.20 16.50 1.349 0.660 22.8  Left side 40 QPSK 50_28 641666/3624.99 1:1 0.489 0.05 15.20 16.50 1.349 0.660 22.8  Left side 40 QPSK 50_28 641666/3624.99 1:1 0.489 0.05 15.20 16.50 1.349 0.247 22.8	Back side	40	QPSK 1_1 641666/3624.99	1:1	0.755	0.04	21.89	23.00	1.291	0.975	22.8
Body worn Test data (Separate 15mm 50%RB)  Front side	Back side	40	QPSK 1_1 638000/3570	1:1	0.708	-0.14	21.85	23.00	1.303	0.923	22.8
Front side	Back side	40	QPSK 1_1 645332/3679.98	1:1	0.683	-0.19	21.80	23.00	1.318	0.900	22.8
Back side         40         QPSK 50_28 641666/3624.99         1:1         0.696         0.08         21.75         23.00         1.334         0.928         22.8           Back side         40         QPSK 50_28 645332/3679.98         1:1         0.627         -0.16         21.83         23.00         1.309         0.821         22.8           Back side         40         QPSK 50_28 645332/3679.98         1:1         0.589         -0.01         21.75         23.00         1.344         0.785         22.8           Back side         40         QPSK 100_0641666/3624.99         1:1         0.669         0.07         20.72         22.00         1.343         0.898         22.8           Hotspot Test data (Separate 10mm 1RB)           Front side         40         QPSK 1_1         641666/3624.99         1:1         0.115         0.10         15.37         16.50         1.297         0.149         22.8           Left side         40         QPSK 1_1         641666/3624.99         1:1         0.170         -0.07         15.37         16.50         1.297         0.281         22.8           Top side         40         QPSK 50_28 641666/3624.99         1:1			Во	dy worn <sup>-</sup>	Test data (S	Separate 1	5mm 50%RB)				
Back side	Front side	40	QPSK 50_28 641666/3624.99	1:1	0.258	0.14	21.75	23.00	1.334	0.344	22.8
Back side         40         QPSK 50_28_645332/3679.98         1:1         0.589         -0.01         21.75         23.00         1.334         0.785         22.8           Body worn Test data (Separate 15mm 100%RB)           Back side         40         QPSK 100_0 641666/3624.99         1:1         0.669         0.07         20.72         22.00         1.343         0.898         22.8           Hotspot Test data(Separate 10mm 1RB)           Front side         40         QPSK 1_1         641666/3624.99         1:1         0.115         0.10         15.37         16.50         1.297         0.149         22.8           Back side         40         QPSK 1_1         641666/3624.99         1:1         0.452         -0.06         15.37         16.50         1.297         0.586         22.8           Left side         40         QPSK 1_1         641666/3624.99         1:1         0.170         -0.07         15.37         16.50         1.297         0.221         22.8           Top side         40         QPSK 1_1         641666/3624.99         1:1         0.068         -0.05         15.37         16.50         1.297         0.088         22.8           H	Back side	40	QPSK 50_28 641666/3624.99	1:1	0.696	0.08	21.75	23.00	1.334	0.928	22.8
Body worn Test data (Separate 15mm 100%RB)  Back side	Back side	40	QPSK 50_28 638000/3570	1:1	0.627	-0.16	21.83	23.00	1.309	0.821	22.8
Back side         40         QPSK 100_0641666/3624.99         1:1         0.669         0.07         20.72         22.00         1.343         0.898         22.8           Hotspot Test data(Separate 10mm 1RB)           Front side         40         QPSK 1_1         641666/3624.99         1:1         0.115         0.10         15.37         16.50         1.297         0.149         22.8           Back side         40         QPSK 1_1         641666/3624.99         1:1         0.452         -0.06         15.37         16.50         1.297         0.586         22.8           Left side         40         QPSK 1_1         641666/3624.99         1:1         0.170         -0.07         15.37         16.50         1.297         0.221         22.8           Top side         40         QPSK 1_1         641666/3624.99         1:1         0.068         -0.05         15.37         16.50         1.297         0.088         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         40         QPSK 50_28641666/3624.99         1:1         0.120         -0.15         15.20         16.50         1.349         0.162         22.8           Back side         40	Back side	40	QPSK 50_28 645332/3679.98	1:1	0.589	-0.01	21.75	23.00	1.334	0.785	22.8
Hotspot Test data(Separate 10mm 1RB)  Front side			Boo	dy worn T	est data (S	eparate 15	mm 100%RB	)			
Front side	Back side	40	QPSK 100_0 641666/3624.99	1:1	0.669	0.07	20.72	22.00	1.343	0.898	22.8
Back side         40         QPSK 1_1         641666/3624.99         1:1         0.452         -0.06         15.37         16.50         1.297         0.586         22.8           Left side         40         QPSK 1_1         641666/3624.99         1:1         0.170         -0.07         15.37         16.50         1.297         0.221         22.8           Top side         40         QPSK 1_1         641666/3624.99         1:1         0.068         -0.05         15.37         16.50         1.297         0.088         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         40         QPSK 50_28641666/3624.99         1:1         0.120         -0.15         15.20         16.50         1.349         0.162         22.8           Back side         40         QPSK 50_28641666/3624.99         1:1         0.489         0.05         15.20         16.50         1.349         0.660         22.8           Left side         40         QPSK 50_28641666/3624.99         1:1         0.183         -0.01         15.20         16.50         1.349         0.247         22.8				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Left side         40         QPSK 1_1         641666/3624.99         1:1         0.170         -0.07         15.37         16.50         1.297         0.221         22.8           Top side         40         QPSK 1_1         641666/3624.99         1:1         0.068         -0.05         15.37         16.50         1.297         0.088         22.8           Hotspot Test data (Separate 10mm 50%RB)           Front side         40         QPSK 50_28641666/3624.99         1:1         0.120         -0.15         15.20         16.50         1.349         0.162         22.8           Back side         40         QPSK 50_28641666/3624.99         1:1         0.489         0.05         15.20         16.50         1.349         0.660         22.8           Left side         40         QPSK 50_28641666/3624.99         1:1         0.183         -0.01         15.20         16.50         1.349         0.247         22.8	Front side	40	QPSK 1_1 641666/3624.99	1:1	0.115	0.10	15.37	16.50	1.297	0.149	22.8
Top side 40 QPSK 1_1 641666/3624.99 1:1 0.068 -0.05 15.37 16.50 1.297 0.088 22.8  Hotspot Test data (Separate 10mm 50%RB)  Front side 40 QPSK 50_28 641666/3624.99 1:1 0.120 -0.15 15.20 16.50 1.349 0.162 22.8  Back side 40 QPSK 50_28 641666/3624.99 1:1 0.489 0.05 15.20 16.50 1.349 0.660 22.8  Left side 40 QPSK 50_28 641666/3624.99 1:1 0.183 -0.01 15.20 16.50 1.349 0.247 22.8	Back side	40	QPSK 1_1 641666/3624.99	1:1	0.452	-0.06	15.37	16.50	1.297	0.586	22.8
Hotspot Test data (Separate 10mm 50%RB)  Front side	Left side	40	QPSK 1_1 641666/3624.99	1:1	0.170	-0.07	15.37	16.50	1.297	0.221	22.8
Front side         40         QPSK 50_28 641666/3624.99         1:1         0.120         -0.15         15.20         16.50         1.349         0.162         22.8           Back side         40         QPSK 50_28 641666/3624.99         1:1         0.489         0.05         15.20         16.50         1.349 <b>0.660</b> 22.8           Left side         40         QPSK 50_28 641666/3624.99         1:1         0.183         -0.01         15.20         16.50         1.349         0.247         22.8	Top side	40	QPSK 1_1 641666/3624.99	1:1	0.068	-0.05	15.37	16.50	1.297	0.088	22.8
Back side         40         QPSK 50_28 641666/3624.99         1:1         0.489         0.05         15.20         16.50         1.349 <b>0.660</b> 22.8           Left side         40         QPSK 50_28 641666/3624.99         1:1         0.183         -0.01         15.20         16.50         1.349         0.247         22.8			F	lotspot Te	est data (Se	eparate 10	mm 50%RB)				
Left side 40 QPSK 50_28 641666/3624.99 1:1 0.183 -0.01 15.20 16.50 1.349 0.247 22.8	Front side	40	QPSK 50_28 641666/3624.99	1:1	0.120	-0.15	15.20	16.50	1.349	0.162	22.8
	Back side	40	QPSK 50_28 641666/3624.99	1:1	0.489	0.05	15.20	16.50	1.349	0.660	22.8
Top side 40 QPSK 50_28 641666/3624.99 1:1 0.064 -0.01 15.20 16.50 1.349 0.086 22.8	Left side	40	QPSK 50_28 641666/3624.99	1:1	0.183	-0.01	15.20	16.50	1.349	0.247	22.8
	Top side	40	QPSK 50_28 641666/3624.99	1:1	0.064	-0.01	15.20	16.50	1.349	0.086	22.8

Table 27: SAR of 5G NR n48 for Head and Body.

### 9.2.6 SAR Result of 5G NR n77(3450~3550)

				SA N7	7 SAR Te	st Record	d				
				ıA	nt6 Test R	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	ad Test da	ta(1RB)	•	•	,		
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.429	-0.09	14.48	15.20	1.180	0.506	22.8
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.572	-0.04	14.48	15.20	1.180	0.675	22.8
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.257	-0.16	14.48	15.20	1.180	0.303	22.8
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.340	-0.18	14.48	15.20	1.180	0.401	22.8
				Head	Test data	(50%RB)					
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.439	0.10	14.35	15.20	1.216	0.534	22.8
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.589	-0.18	14.35	15.20	1.216	0.716	22.8
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.242	0.16	14.35	15.20	1.216	0.294	22.8
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.313	-0.02	14.35	15.20	1.216	0.381	22.8
			Body	worn Te	st data(Se	parate 15	mm 1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.349	-0.03	24.07	24.70	1.156	0.403	22.8
Back side	100	QPSK 1_1	633334/3500	1:1	0.743	0.12	24.07	24.70	1.156	0.859	22.8
			Body w	orn Test	data(Sepa	arate 15m	m 50%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.414	0.00	23.95	24.70	1.189	0.492	22.8



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			,					1			
Back side	100	QPSK 135_69		1:1	0.797	0.07	23.95	24.70	1.189	0.947	22.8
		l					m 50%RB)		1		1
Back side	100	QPSK 270_0	633334/3500	1:1	0.769	-0.19	23.86	24.70	1.213	0.933	22.8
	100	0.0014.4.4			data(Sepa			45.00	4 400	0.400	00.0
Front side	100	QPSK 1_1	633334/3500	1:1	0.107	-0.09	14.48	15.20	1.180	0.126	22.8
Back side	100	QPSK 1_1	633334/3500	1:1	0.138	-0.11	14.48	15.20	1.180	0.163	22.8
Right side	100	QPSK 1_1	633334/3500	1:1	0.094	0.11	14.48	15.20	1.180	0.111	22.8
Top side	100	QPSK 1_1	633334/3500	1:1	0.235	0.05	14.48	15.20	1.180	0.277	22.8
Front side	100	QPSK 135 69		1:1	ata (Separ 0.110	0.14	14.35	15.20	1.216	0.134	22.8
Back side		QPSK 135_69		1:1	0.116	-0.18	14.35	15.20	1.216	0.134	22.8
Right side		QPSK 135_69		1:1	0.099	0.01	14.35	15.20	1.216	0.170	22.8
Top side		QPSK 135 69		1:1	0.240	0.10	14.35	15.20	1.216	0.292	22.8
1 op side	100	Q. O. 100_00	00000 11 0000		nt7 Test R		11.00	10.20	1.210	0.202	LE.U
					SAR	Power				Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty	(W/kg)	drift	Conducted Power(dBm)	Tune up	Scaled	SAR 1-g	Liquid
-				Cycle	1-g	(dB)	Power(abili)	Liiiii(ubiii)	Tactor	(W/kg)	Temp.(℃)
				Hea	ad Test da		-		,		
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.778	-0.16	15.57	16.20	1.156	0.899	22.8
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.300	0.10	15.57	16.20	1.156	0.347	22.8
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.180	-0.03	15.57	16.20	1.156	0.208	22.8
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.106	-0.19	15.57	16.20	1.156	0.123	22.8
		T.	T		l Test data	(50%RB)	•		1		1
Left cheek		QPSK 135_69		1:1	0.819	-0.02	15.53	16.20	1.167	0.956	22.8
Left cheek-repeated				1:1	0.814	0.16	15.53	16.20	1.167	0.950	22.8
Left tilted		QPSK 135_69		1:1	0.307	0.04	15.53	16.20	1.167	0.358	22.8
Right cheek		QPSK 135_69		1:1	0.163	0.14	15.53	16.20	1.167	0.190	22.8
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.097	0.02	15.53	16.20	1.167	0.113	22.8
		I · · · ·			Test data				1		
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.771	0.00	14.36	15.20	1.213	0.936	22.8
Front oide	100	QPSK 1 1	633334/3500		st data(Se	ì		17.70	1 170	0.107	22.0
Front side	100		633334/3500	1:1 1:1	0.091 0.129	0.12 0.13	16.99 16.99	17.70	1.178 1.178	0.107	22.8
Back side	100	QPSK 1_1					m 50%RB)	17.70	1.170	0.152	22.8
Front side	100	QPSK 135 69		1:1	0.094	0.18	16.96	17.70	1.186	0.111	22.8
Back side		QPSK 135_69		1:1	0.094	-0.09	16.96	17.70	1.186	0.111	22.8
Dack Side	100	QF3K 133_09			data(Sepa			17.70	1.100	0.190	22.0
Front side	100	QPSK 1 1	633334/3500	1:1	0.122	-0.04	15.57	16.20	1.156	0.141	22.8
Back side	100	QPSK 1 1	633334/3500	1:1	0.176	-0.04	15.57	16.20	1.156	0.203	22.8
Right side	100	QPSK 1_1	633334/3500	1:1	0.256	-0.16	15.57	16.20	1.156	0.296	22.8
Top side	100	QPSK 1 1	633334/3500	1:1	0.019	0.18	15.57	16.20	1.156	0.022	22.8
		<u>,</u>			ata (Separ						
Front side	100	QPSK 135_69		1:1	0.129	-0.03	15.53	16.20	1.167	0.151	22.8
Back side		QPSK 135_69		1:1	0.193	-0.01	15.53	16.20	1.167	0.225	22.8
Right side		QPSK 135_69		1:1	0.287	0.02	15.53	16.20	1.167	0.335	22.8
Top side		QPSK 135_69		1:1	0.031	-0.05	15.53	16.20	1.167	0.036	22.8
				Aı	nt8 Test R	ecord					
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)			SAR 1-g	Temp.(℃)
					1-g	(dB)		,		(W/kg)	. , ,
Left cheek	100	QPSK 1_1	633334/3500	1:1	ad Test da 0.252	0.15	23.37	24.50	1.297	0.327	22.8
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.252	-0.16	23.37	24.50	1.297	0.069	22.8
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.033	0.07	23.37	24.50	1.297	0.069	22.8
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.420	0.07	23.37	24.50	1.297	0.140	22.8
Night tilted	100	WEOK I_I	000004/0000	1.1	0.100	0.04	20.01	24.00	1.291	0.140	22.0



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·				Hand	T4 -1-4-	/F00/ DD)					
1 -4 -11	400	ODCK 425 CO	000004/0500		Test data	· /	00.04	04.50	4 200	0.405	20.0
Left cheek	_		633334/3500	1:1	0.325	0.08	23.34	24.50	1.306	0.425 0.085	22.8 22.8
Left tilted	_		633334/3500	1:1 1:1	0.065 0.505	-0.06 0.04	23.34	24.50	1.306 1.306		22.8
Right cheek	_		633334/3500	1:1	0.505	0.04		24.50	1.306	0.660	
Right tilted	100	QPSK 135_69	633334/3500		st data(Se		23.34	24.50	1.300	0.251	22.8
Front side	100	QPSK 1 1	633334/3500	1:1	0.105	-0.06	22.90	24.00	1.288	0.135	22.8
Back side	100	QPSK 1_1	633334/3500	1:1	0.103	-0.06	22.90	24.00	1.288	0.756	22.8
Dack Side	100	QFSK I_I				_	m 50%RB)	24.00	1.200	0.730	22.0
Front side	100	ODSK 135 60	633334/3500	1:1	0.072	0.10	22.55	24.00	1.396	0.101	22.8
Back side	_	QPSK 135_69		1:1	0.072	0.10	22.55	24.00	1.396	0.550	22.8
Dack side	1100	Q1 31C 133_03			data(Sepa			24.00	1.550	0.550	22.0
Front side	100	QPSK 1 1	633334/3500	1:1	0.130	0.06	20.61	21.50	1.227	0.160	22.8
Back side	100	QPSK 1_1	633334/3500	1:1	0.733	-0.01	20.61	21.50	1.227	0.900	22.8
Left side	100	QPSK 1_1	633334/3500	1:1	0.296	0.13	20.61	21.50	1.227	0.363	22.8
Top side	100	QPSK 1 1	633334/3500	1:1	0.230	0.04	20.61	21.50	1.227	0.384	22.8
Top side	100	QI SICI_I			ata (Separ			21.50	1.221	0.504	22.0
Front side	100	QPSK 135 69		1:1	0.077	0.02	20.51	21.50	1.256	0.097	22.8
Back side		QPSK 135_69		1:1	0.549	-0.09	20.51	21.50	1.256	0.690	22.8
Left side			633334/3500	1:1	0.178	0.01	20.51	21.50	1.256	0.224	22.8
Top side	_	QPSK 135_69		1:1	0.170	-0.16	20.51	21.50	1.256	0.224	22.8
Top side	100	Q1 510 155_05					100%RB)	21.50	1.230	0.241	22.0
Back side	100	OPSK 270_0	633334/3500	1:1	0.511	-0.17	20.36	21.50	1.300	0.664	22.8
Dack Side	100	QI OI(270_0	000004/0000		nt9 Test R		20.00	21.00	1.500	0.004	22.0
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted	Tune up	Scaled	Scaled SAR 1-g	Liquid
						,	Power(abm)	LIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Tactor		i remb.(C)
					1-g	(dB)	Power(dBm)	Liiiii(ubiii)	Tactor	(W/kg)	Temp.(℃)
Loft abook	100	ODEK 1 1	622224/2500	Hea	ad Test da	ta(1RB)				(W/kg)	
Left cheek	100	QPSK 1_1	633334/3500	Hea 1:1	ad Test da 0.143	ta(1RB)	20.19	21.00	1.205	(W/kg) 0.172	22.8
Left tilted	100	QPSK 1_1	633334/3500	1:1 1:1	0.143 0.131	0.07 0.09	20.19	21.00 21.00	1.205 1.205	0.172 0.158	22.8
Left tilted Right cheek	100 100	QPSK 1_1 QPSK 1_1	633334/3500 633334/3500	Hea 1:1 1:1 1:1	0.143 0.131 0.328	0.07 0.09 -0.19	20.19 20.19 20.19	21.00 21.00 21.00	1.205 1.205 1.205	0.172 0.158 0.395	22.8 22.8 22.8
Left tilted	100	QPSK 1_1	633334/3500	Hea 1:1 1:1 1:1 1:1	0.143 0.131 0.328 0.287	0.07 0.09 -0.19 0.15	20.19	21.00 21.00	1.205 1.205	0.172 0.158	22.8
Left tilted Right cheek Right tilted	100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head	0.143 0.131 0.328 0.287 Test data	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB)	20.19 20.19 20.19 20.19	21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205	0.172 0.158 0.395 0.346	22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted Left cheek	100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1	0.143 0.131 0.328 0.287 Test data 0.162	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17	20.19 20.19 20.19 20.19 20.00	21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.205	0.172 0.158 0.395 0.346	22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted	100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01	20.19 20.19 20.19 20.19 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190	22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08	20.19 20.19 20.19 20.19 20.00 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.205 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190 0.386	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190	22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 mm 1RB)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.205 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190 0.386	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.00 20.19 20.19	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 633334/3500 Body wc	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 mworn Test	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Separation Labeled L	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01 arate 15m	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 mm 1RB) 20.19 20.19 m 50%RB)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.259 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.00 20.19 20.19	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.259	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 Body wc 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01 arate 15m 0.13 0.17	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.19 20.19 20.19 m 50%RB) 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 Body wc 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.143 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01 arate 15m 0.13 0.17	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.19 20.19 20.19 m 50%RB) 20.00 20.00	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body 633334/3500 Body wc 633334/3500 633334/3500 Hots	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15 0.11 0.01 arate 15m 0.13 0.17 arate 10m	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.19 mm 1RB) 20.19 20.00 20.00 mm 1RB)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135-69 QPSK 135-69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 1_5-69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body wo 633334/3500 Body wo 633334/3500 Hots 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 mm 1RB) 20.19 20.19 20.00 20.00 mm 50%RB) 20.00 20.00 mm 1RB)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body wo 633334/3500 Body wo 633334/3500 Hots 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062 0.206	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15 0.08	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.19 m 50%RB) 20.19 20.00 20.00 m 1RB)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072 0.172	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side  Left side Left side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5_69	63334/3500 633334/3500 633334/3500 633334/3500 633334/3500 63334/3500 Body wo 633334/3500 Body wo 633334/3500 633334/3500 Hots 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062 0.062 0.084	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15 0.08 0.11 -0.15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.09 20.19  mm 1RB) 20.19 20.19 m 50%RB) 20.00 20.00 m 1RB) 16.70 16.70 16.70	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 17.50 17.50	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205 1.205 1.202 1.202	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072 0.172	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side  Left side Left side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1	63334/3500 633334/3500 633334/3500 633334/3500 633334/3500 63334/3500 Body wo 633334/3500 Body wo 633334/3500 633334/3500 Hots 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062 0.206 0.084 0.022	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15 0.08 0.11 -0.15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.09 20.19  mm 1RB) 20.19 20.19 m 50%RB) 20.00 20.00 m 1RB) 16.70 16.70 16.70	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 17.50 17.50	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205 1.205 1.202 1.202	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072 0.172	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side  Left side Top side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1	63334/3500 633334/3500 633334/3500 633334/3500 633334/3500 63334/3500 633334/3500 Body wo 633334/3500 633334/3500 Hots 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062 0.084 0.022 ata (Separ	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15 0.08 0.11 -0.15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.00 20.19 20.19 20.19 20.00 20.00 20.00 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16.70 16	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 17.50 17.50 17.50	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.259 1.259 1.259 1.259 1.205 1.202 1.202 1.202	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072 0.172 0.075 0.248 0.101 0.026	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8
Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side  Front side Back side  Left side Top side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5-69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_5-69 QPSK 1_5-69 QPSK 1_5-69	63334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Body wc 633334/3500 633334/3500 Hots 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	ad Test da 0.143 0.131 0.328 0.287 Test data 0.162 0.151 0.307 0.278 st data(Se 0.043 0.106 data (Sepa 0.057 0.137 data(Sepa 0.062 0.084 0.022 ata (Separ 0.102	ta(1RB) 0.07 0.09 -0.19 0.15 (50%RB) -0.17 -0.01 0.08 0.11 parate 15m 0.13 0.17 arate 10m -0.15 0.08 0.11 -0.15	20.19 20.19 20.19 20.19 20.00 20.00 20.00 20.00 20.00 20.00 mm 1RB) 20.19 20.19 20.00 20.00 mm 1RB) 16.70 16.70 16.70 16.70 16.70 16.70 16.48	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 17.50 17.50 17.50	1.205 1.205 1.205 1.205 1.259 1.259 1.259 1.259 1.205 1.205 1.205 1.202 1.202 1.202 1.202	0.172 0.158 0.395 0.346 0.204 0.190 0.386 0.350 0.052 0.128 0.072 0.172 0.075 0.248 0.101 0.026	22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.8

Table 28: SAR of 5G NR n77(3450~3550) for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	633334/3500	0.819	0.814	1.006142506	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

#### 9.2.7 SAR Result of 5G NR n77(3700~3980)

SA N77 SAR Test Record												
					Ant6 Te	st Record						
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				,	Head Tes	t data(1RE						
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.196	0.13	14.30	15.00	1.175	0.230	22.8	
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.300	0.10	14.30	15.00	1.175	0.352	22.8	
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.122	-0.14	14.30	15.00	1.175	0.143	22.8	
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.156	0.17	14.30	15.00	1.175	0.183	22.8	
				ŀ	Head Test	data(50%F		1			Ī	
Left cheek         100         QPSK 135_69         656000/3840         1:1         0.180         -0.08         14.21         15.00         1.199         0.216         22.8												
Left tilted		QPSK 135_69		1:1	0.269	-0.02	14.21	15.00	1.199	0.323	22.8	
Right cheek		QPSK 135_69		1:1	0.108	0.15	14.21	15.00	1.199	0.130	22.8	
Right tilted	100	QPSK 135_69		1:1	0.146	0.15	14.21	15.00	1.199	0.175	22.8	
				Body wor	n Test data	(Separate	15mm 1RB)					
Front side	100	QPSK 1_1	656000/3840	1:1	0.155	0.12	23.83	24.50	1.167	0.181	22.8	
Back side	100	QPSK 1_1	656000/3840	1:1	0.393	0.16	23.83	24.50	1.167	0.459	22.8	
						Separate 1	5mm 50%RB)					
Front side		QPSK 135_69		1:1	0.171	0.01	23.69	24.50	1.205	0.206	22.8	
Back side	100	QPSK 135_69	656000/3840	1:1	0.419	-0.09	23.69	24.50	1.205	0.505	22.8	
				Hotspot	Test data(S	Separate 1	0mm 1RB)					
Front side	100	QPSK 1_1	656000/3840	1:1	0.049	-0.04	14.30	15.00	1.175	0.058	22.8	
Back side	100	QPSK 1_1	656000/3840	1:1	0.054	-0.07	14.30	15.00	1.175	0.063	22.8	
Right side	100	QPSK 1_1	656000/3840	1:1	0.038	0.02	14.30	15.00	1.175	0.045	22.8	
Top side	100	QPSK 1_1	656000/3840	1:1	0.094	-0.05	14.30	15.00	1.175	0.110	22.8	
				lotspot Te	est data (Se	eparate 10	mm 50%RB)					
Front side		QPSK 135_69		1:1	0.050	-0.14	14.21	15.00	1.199	0.060	22.8	
Back side		QPSK 135_69		1:1	0.058	-0.02	14.21	15.00	1.199	0.070	22.8	
Right side	100	QPSK 135_69	656000/3840	1:1	0.042	0.11	14.21	15.00	1.199	0.050	22.8	
Top side	100	QPSK 135_69	656000/3840	1:1	0.097	-0.08	14.21	15.00	1.199	0.116	22.8	
						st Record						
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
					Head Tes	t data(1RE	3)					
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.598	0.07	15.49	16.20	1.178	0.704	22.8	
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.287	-0.13	15.49	16.20	1.178	0.338	22.8	
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.124	-0.01	15.49	16.20	1.178	0.146	22.8	
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.098	0.09	15.49	16.20	1.178	0.115	22.8	
				I	Head Test	data(50%F	RB)					
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.567	0.05	15.42	16.20	1.197	0.679	22.8	
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.279	0.12	15.42	16.20	1.197	0.334	22.8	



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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r		ı	ı		T	ı	ı	1			
Right cheek		QPSK 135_69		1:1	0.120	-0.06	15.42	16.20	1.197	0.144	22.8
Right tilted	100	QPSK 135_69	•	1:1	0.095	-0.09	15.42	16.20	1.197	0.114	22.8
				Body wor			15mm 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.036	-0.12	16.76	17.70	1.242	0.044	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.076	-0.03	16.76	17.70	1.242	0.094	22.8
				dy worn	Test data (	Separate 1	5mm 50%RB	)			
Front side		QPSK 135_69		1:1	0.039	0.12	16.72	17.70	1.253	0.049	22.8
Back side	100	QPSK 135_69	656000/3840	1:1	0.095	0.11	16.72	17.70	1.253	0.119	22.8
				Hotspot	Test data(	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.076	0.02	15.49	16.20	1.178	0.089	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.093	0.14	15.49	16.20	1.178	0.110	22.8
Right side	100	QPSK 1_1	656000/3840	1:1	0.137	-0.15	15.49	16.20	1.178	0.161	22.8
Top side	100	QPSK 1_1	656000/3840	1:1	0.010	0.03	15.49	16.20	1.178	0.012	22.8
			ŀ	Hotspot To	est data (S	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.081	0.10	15.42	16.20	1.197	0.097	22.8
Back side	100	QPSK 135_69	656000/3840	1:1	0.102	-0.15	15.42	16.20	1.197	0.122	22.8
Right side	100	QPSK 135_69	656000/3840	1:1	0.154	0.11	15.42	16.20	1.197	0.184	22.8
Top side	100	QPSK 135_69	656000/3840	1:1	0.018	-0.08	15.42	16.20	1.197	0.022	22.8
					Ant8 Te	st Record		•			
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					1-g	t data(1RE				(vv/kg)	
L oft obook	100	ODCK 1 1	656000/2040	1.1				24.50	1 221	0.106	22.0
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.148	-0.12	23.29	24.50	1.321	0.196	22.8
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.069	0.07	23.29	24.50	1.321	0.091	22.8
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.168	0.10	23.29	24.50	1.321	0.222	22.8
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.064	0.00	23.29	24.50	1.321	0.085	22.8
1 . 6	400	0001/405 00	050000/0040		Head Test	,		04.50	4.040	0.400	00.0
Left cheek				1:1	0.099	0.16	23.21	24.50	1.346	0.133	22.8
Left tilted		QPSK 135_69		1:1	0.038	-0.08	23.21	24.50	1.346	0.051	22.8
Right cheek		QPSK 135_69		1:1 1:1	0.200	0.13	23.21	24.50	1.346	0.269	22.8
Right tilted	100	QPSK 135_69	!		0.079	-0.03	23.21	24.50	1.346	0.106	22.8
Frank side	400	ODCK 4. 4				<u> </u>	15mm 1RB)	24.00	4.007	0.004	22.0
Front side	100	QPSK 1_1	656000/3840	1:1	0.026	0.03	22.87	24.00	1.297	0.034	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.230	0.05	22.87	24.00	1.297	0.298	22.8
Frank side	400	ODCK 425 . CO			1	1	5mm 50%RB		4.400	0.004	22.0
Front side		QPSK 135_69		1:1	0.017	-0.12	22.54	24.00	1.400	0.024	22.8
Back side	100	QPSK 135_69	0280000/3840	1:1	0.132	-0.05	22.54	24.00	1.400	0.185	22.8
Front -:	100	ODCK 4. 4	656000/2040		Test data(			24.50	1 010	0.050	20.0
Front side	100	QPSK 1_1	656000/3840	1:1	0.046	-0.13	20.65	21.50	1.216	0.056	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.289	0.18	20.65	21.50	1.216	0.351	22.8
Left side	100	QPSK 1_1	656000/3840	1:1	0.091	0.16	20.65	21.50	1.216	0.111	22.8
Top side	100	QPSK 1_1	656000/3840	1:1	0.098	-0.18	20.65	21.50	1.216	0.119	22.8
Frank : 1.1	400	ODOK 405 00		•	,		mm 50%RB)	04.50	4.005	0.005	00.0
Front side		QPSK 135_69		1:1	0.075	-0.15	20.48	21.50	1.265	0.095	22.8
Back side		QPSK 135_69		1:1	0.362	-0.06	20.48	21.50	1.265	0.458	22.8
Left side		QPSK 135_69		1:1	0.148	0.00	20.48	21.50	1.265	0.187	22.8
Top side	100	QPSK 135_69	056000/3840	1:1	0.156	-0.07	20.48	21.50	1.265	0.197	22.8
						st Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.064	-0.17	20.56	21.50	1.242	0.079	22.8
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.045	0.10	20.56	21.50	1.242	0.056	22.8



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Right cheek	100	QPSK 1_1	656000/3840	1:1	0.075	0.12	20.56	21.50	1.242	0.093	22.8
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.054	0.10	20.56	21.50	1.242	0.067	22.8
					Head Test	data(50%F	RB)				
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.055	0.02	20.38	21.50	1.294	0.071	22.8
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.051	-0.02	20.38	21.50	1.294	0.066	22.8
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.103	0.12	20.38	21.50	1.294	0.133	22.8
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.090	-0.05	20.38	21.50	1.294	0.116	22.8
	-			Body wor	n Test data	(Separate	15mm 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.021	-0.04	20.56	21.50	1.242	0.026	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.608	0.05	20.56	21.50	1.242	0.755	22.8
			Во	ody worn <sup>-</sup>	Test data (	Separate 1	5mm 50%RB)				
Front side		QPSK 135_69		1:1	0.033	0.01	20.38	21.50	1.294	0.043	22.8
Back side	100	QPSK 135_69	656000/3840	1:1	0.698	-0.06	20.38	21.50	1.294	0.903	22.8
			Во	dy worn <sup>-</sup>	Test data (	Separate 1	5mm 50%RB)				
Back side	100	QPSK 270_0	656000/3840	1:1	0.616	-0.16	20.18	21.50	1.355	0.835	22.8
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.016	0.03	17.17	18.00	1.211	0.019	22.8
Back side	100	QPSK 1_1	656000/3840	1:1	0.681	0.07	17.17	18.00	1.211	0.824	22.8
Left side	100	QPSK 1_1	656000/3840	1:1	0.093	-0.05	17.17	18.00	1.211	0.113	22.8
Top side	100	QPSK 1_1	656000/3840	1:1	0.016	0.04	17.17	18.00	1.211	0.019	22.8
			ŀ	Hotspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.021	0.06	17.00	18.00	1.259	0.026	22.8
Back side	100	QPSK 135_69	656000/3840	1:1	0.728	0.01	17.00	18.00	1.259	0.916	22.8
Left side	100	QPSK 135_69	656000/3840	1:1	0.113	-0.13	17.00	18.00	1.259	0.142	22.8
Top side	100	QPSK 135_69	656000/3840	1:1	0.028	0.11	17.00	18.00	1.259	0.035	22.8
				lotspot Te	est data (Se	eparate 10	mm 50%RB)				
Back side	100	QPSK 270_0	656000/3840	1:1	0.687	-0.02	16.81	18.00	1.315	0.904	22.8

Table 29: SAR of 5G NR n77(3700~3980) for Head and Body.

#### 9.2.8 SAR Result of 5G NR n78(350~3550)

,														
SA N78 SAR Test Record														
	Ant8 Test Record													
Test position BW. Modulation Test ch./Freq. Duty Cycle (W/kg) 1-g Conducted Power(dBm) Tune up Limit(dBm) Scaled Factor SAR 1-g (W/kg) Temp.(*Conducted Power(dBm) Conducted Power(dBm) Conducted Factor (W/kg) Temp.(*Conducted P														
					Head Tes	t data(1RE	3)							
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.399	-0.13	23.93	25.00	1.279	0.510	22.8			
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.080	0.16	23.93	25.00	1.279	0.102	22.8			
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.608	0.03	23.93	25.00	1.279	0.778	22.8			
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.236	-0.11	23.93	25.00	1.279	0.302	22.8			
					Head Test	data(50%F	RB)							
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.309	-0.07	23.87	25.00	1.297	0.401	22.8			
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.065	0.02	23.87	25.00	1.297	0.084	22.8			
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.516	0.08	23.87	25.00	1.297	0.669	22.8			
Right tilted	100	QPSK 135 69	633334/3500	1:1	0.133	-0.19	23.87	25.00	1.297	0.173	22.8			



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	Body worn Test data(Separate 15mm 1RB)												
Front side 100 QPSK 1_1 633334/3500 1:1 0.122 -0.14 23.41 24.50 1.285 0.157 22.8													
Back side	100	QPSK 1_1	633334/3500	1:1	0.598	-0.03	23.41	24.50	1.285	0.769	22.8		
			В	ody worn	Test data(S	Separate 1	5mm 50%RB)						
Front side	100	QPSK 135_69	633334/3500	1:1	0.086	0.14	23.06	24.50	1.393	0.120	22.8		
Back side	100	QPSK 135_69	633334/3500	1:1	0.395	-0.12	23.06	24.50	1.393	0.550	22.8		

Table 30: SAR of 5G NR n78(3450~3550) for Head and Body.

### 9.2.9 SAR Result of 5G NR n78(3700~3800)

SA N78 SAR Test Record													
					Ant8 Te	st Record							
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
Head Test data(1RB)													
Left cheek         100         QPSK 1_1         650000/3750         1:1         0.358         -0.11         23.98         25.00         1.265         0.453         22.9													
Left tilted 100 QPSK 1_1 650000/3750 1:1 0.146 -0.06 23.98 25.00 1.265 0.185 22.9													
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.602	0.02	23.98	25.00	1.265	0.761	22.9		
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.237	0.06	23.98	25.00	1.265	0.300	22.9		
				ŀ	Head Test	data(50%F	RB)						
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.244	0.18	23.93	25.00	1.279	0.312	22.9		
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.107	0.19	23.93	25.00	1.279	0.137	22.9		
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.504	0.02	23.93	25.00	1.279	0.645	22.9		
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.192	0.01	23.93	25.00	1.279	0.246	22.9		
				Body wor	n Test data	(Separate	15mm 1RB)						
Front side	100	QPSK 1_1	650000/3750	1:1	0.143	-0.02	23.26	24.50	1.330	0.190	22.9		
Back side	100	QPSK 1_1	650000/3750	1:1	0.701	0.05	23.26	24.50	1.330	0.933	22.9		
			Во	ody worn	Test data(S	Separate 1	5mm 50%RB)	)					
Front side	100	QPSK 135_69	650000/3750	1:1	0.097	-0.17	22.94	24.50	1.432	0.139	22.9		
Back side	100	QPSK 135_69	650000/3750	1:1	0.557	0.18	22.94	24.50	1.432	0.798	22.9		
			Во	dy worn <sup>-</sup>	Test data(S	eparate 1	5mm 100%RB	)					
Back side	100	QPSK 270_0	650000/3750	1:1	0.508	0.11	22.64	24.00	1.368	0.695	22.9		

Table 31: SAR of 5G NR n78(3700~3800) for Head and Body.



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#### 9.2.10SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				Head	Test data	a						
Left cheek	802.11b	6/2437	100.00%	1.000	0.871	0.01	15.90	16.50	1.149	1.001	22.5	
Left cheek-repeated	802.11b	6/2437	100.00%	1.000	0.859	0.03	15.90	16.50	1.149	0.987	22.5	
Left cheek-Simultaneous	802.11b	6/2437	100.00%	1.000	0.871	0.01	15.90	13.00	0.513	0.447	22.5	
Left cheek-DBS	802.11b	6/2437	100.00%	1.000	0.871	0.01	15.90	15.00	0.814	0.709	22.5	
Left cheek-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	0.871	0.01	15.90	10.50	0.289	0.251	22.5	
Left cheek	802.11b	1/2412	100.00%	1.000	0.776	-0.19	15.78	16.50	1.182	0.917	22.5	
Left cheek	802.11b	11/2442	100.00%	1.000	0.819	0.17	15.74	16.50	1.192	0.976	22.5	
Left tilted	802.11b	6/2437	100.00%	1.000	0.470	-0.07	15.90	16.50	1.149	0.540	22.5	
Left tilted-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	0.470	-0.07	15.90	10.50	0.289	0.136	22.5	
Right cheek	802.11b	6/2437	100.00%	1.000	0.198	0.15	15.90	16.50	1.149	0.228	22.5	
Right cheek-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	0.198	0.15	15.90	10.50	0.289	0.057	22.5	
Right tilted	802.11b	6/2437	100.00%	1.000	0.254	-0.14	15.90	16.50	1.149	0.292	22.5	
Right tilted-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	0.254	-0.14	15.90	10.50	0.289	0.073	22.5	
			Body w	orn Test o	lata(Sepa	arate 15m	ım)					
Front side	802.11b	6/2437	100.00%	1.000	0.363	0.06	22.43	23.00	1.141	0.414	22.5	
Back side	802.11b	6/2437	100.00%	1.000	0.448	0.09	22.43	23.00	1.141	0.511	22.5	
Back side-Simultaneous	802.11b	6/2437	100.00%	1.000	0.448	0.09	22.43	19.50	0.510	0.228	22.5	
Back side-DBS	802.11b	6/2437	100.00%	1.000	0.448	0.09	22.43	21.50	0.808	0.362	22.5	
Back side-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	0.448	0.09	22.43	16.50	0.256	0.114	22.5	
			Hotspo	t Test da	ta (Separ	ate 10mr	n)			•		
Front side	802.11b	6/2437	100.00%	1.000	0.136	0.06	13.69	14.50	1.206	0.164	22.5	
Back side	802.11b	6/2437	100.00%	1.000	0.152	-0.09	13.69	14.50	1.206	0.183	22.5	
Right side	802.11b	6/2437	100.00%	1.000	0.203	-0.07	13.69	14.50	1.206	0.245	22.5	
Top side	802.11b	6/2437	100.00%	1.000	0.157	-0.01	13.69	14.50	1.206	0.189	22.5	
Test position	Test mode	Test ch./Freq.		Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)	
	1						ate 0mm)				1	
Back side	802.11b		100.00%	1.000	1.680	0.03	22.43	23.00	1.141	1.918	22.5	
Right side	802.11b	6/2437	100.00%	1.000	2.270	0.03	22.43	23.00	1.141	2.591	22.5	
Right side-repeated	802.11b	6/2437	100.00%	1.000	2.210	0.05	22.43	23.00	1.141	2.523	22.5	
Right side-Simultaneous	802.11b	6/2437	100.00%	1.000	2.270	0.03	22.43	19.50	0.510	1.157	22.5	
Right side-DBS	802.11b	6/2437	100.00%	1.000	2.270	0.03	22.43	21.50	0.808	1.834	22.5	
Right side-DBS Simultaneous	802.11b	6/2437	100.00%	1.000	2.270	0.03	22.43	16.50	0.256	0.580	22.5	
Right side	802.11b	1/2412	100.00%	1.000	1.970	0.03	22.36	23.00	1.159	2.282	22.5	
Right side	802.11b	11/2462	100.00%	1.000	2.160	0.03	22.27	23.00	1.184	2.558	22.5	
Top side	802.11b	6/2437	100.00%	1.000	1.730	0.03	22.43	23.00	1.141	1.975	22.5	

Table 32: SAR of WIFI 2.4G for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	6/2437	0.871	0.859	1.013969732	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).



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3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Right side	6/2437	2.270	2.210	1.027149321	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 3.63 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 2.0 W/kg

Note: When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq$  1.2 W/kg, SAR test for the other 802.11 modes are not required.

#### 9.2.1 SAR Result of WIFI 5G

9.2.1 SAN Nesult	01 1111 1 0										
					R Test F						
		1			est Reco	ord	1			1	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
			Hea	d Test d	ata of U-	NII-2A					
Left cheek	802.11ac 80M	58/5290	99.43%	1.006	0.752	0.03	15.33	16.00	1.167	0.882	22.5
Left tilted	802.11ac 80M	58/5290	99.43%	1.006	0.828	0.08	15.33	16.00	1.167	0.972	22.5
Left tilted-repeaterd	802.11ac 80M	58/5290	99.43%	1.006	0.816	0.03	15.33	16.00	1.167	0.957	22.5
Left tilted-Simultaneous	802.11ac 80M	58/5290	99.43%	1.006	0.828	0.08	15.33	13.00	0.585	0.487	22.5
Left tilted-DBS	802.11ac 80M	58/5290	99.43%	1.006	0.828	0.08	15.33	15.00	0.927	0.772	22.5
Left tilted-DBS Simultaneous	802.11ac 80M	58/5290	99.43%	1.006	0.828	0.08	15.33	11.00	0.369	0.307	22.5
Right cheek	802.11ac 80M	58/5290	99.43%	1.006	0.511	0.01	15.33	16.00	1.167	0.600	22.5
Right tilted	802.11ac 80M	58/5290	99.43%	1.006	0.582	0.05	15.33	16.00	1.167	0.683	22.5
					ata of U-	NII-2C					
Left cheek	802.11ac 80M	138/5690	99.43%	1.006	0.706	-0.04	15.32	13.00	0.586	0.416	22.5
Left cheek	802.11ac 80M	106/5530	99.43%	1.006	0.655	0.02	15.18	16.00	1.208	0.796	22.5
Left cheek	802.11ac 80M	122/5610	99.43%	1.006	0.689	-0.16	15.21	16.00	1.199	0.831	22.5
Left tilted	802.11ac 80M	138/5690	99.43%	1.006	0.791	0.05	15.32	16.00	1.169	0.930	22.5
Left tilted	802.11ac 80M	106/5530	99.43%	1.006	0.802	0.15	15.18	16.00	1.208	0.974	22.5
Left tilted-repeated	802.11ac 80M	106/5530	99.43%	1.006	0.795	0.04	15.18	16.00	1.208	0.966	22.5
Left tilted-Simultaneous	802.11ac 80M	106/5530	99.43%	1.006	0.802	0.15	15.18	13.00	0.605	0.488	22.5
Left tilted-DBS	802.11ac 80M	106/5530	99.43%	1.006	0.802	0.15	15.18	15.00	0.960	0.774	22.5
Left tilted-DBS Simultaneous	802.11ac 80M	106/5530	99.43%	1.006	0.802	0.15	15.18	11.00	0.382	0.308	22.5
Left tilted	802.11ac 80M	122/5610	99.43%	1.006	0.786	0.01	15.21	16.00	1.199	0.948	22.5
Right cheek	802.11ac 80M	138/5690	99.43%	1.006	0.438	-0.05	15.32	16.00	1.169	0.515	22.5
Right tilted	802.11ac 80M	138/5690	99.43%	1.006	0.512	0.01	15.32	16.00	1.169	0.602	22.5
			Hea	ad Test	data of U	-NII-3					
Left cheek	802.11ac 80M	155/5775	99.43%	1.006	0.786	0.09	15.21	13.00	0.601	0.475	22.5
Left tilted	802.11ac 80M	155/5775	99.43%	1.006	0.820	-0.07	15.21	16.00	1.199	0.989	22.5
Left tilted-repeated	802.11ac 80M	155/5775	99.43%	1.006	0.816	0.04	15.21	16.00	1.199	0.984	22.5
Left tilted-Simultaneous	802.11ac 80M	155/5775	99.43%	1.006	0.820	-0.07	15.21	13.00	0.601	0.496	22.5
Left tilted-DBS	802.11ac 80M	155/5775	99.43%	1.006	0.820	-0.07	15.21	15.00	0.952	0.785	22.5
Left tilted-DBS Simultaneous	802.11ac 80M	155/5775	99.43%	1.006	0.820	-0.07	15.21	11.00	0.379	0.313	22.5



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Right cheek	802.11ac 80M	155/5775	99 43%	1.006	0.443	-0.03	15.21	16.00	1.199	0.534	22.5
	802.11ac 80M				0.526	0.01	15.21	16.00	1.199	0.634	22.5
raght thea	002.1 1ac 00W						ite 15mm)	10.00	1.155	0.004	22.0
Front side	802.11n 40M				0.193	0.08	19.85	21.00	1.302	0.252	22.5
Back side	802.11n 40M				0.211	0.05	19.85	21.00	1.302	0.276	22.5
Back side-Simultaneous	802.11n 40M			1.004	0.211	0.05	19.85	18.00	0.653	0.138	22.5
Back side-DBS	802.11n 40M				0.211	0.05	19.85	20.00	1.034	0.219	22.5
Back side-DBS											
Simultaneous	802.11n 40M	54/5270	99.63%	1.004	0.211	0.05	19.85	15.00	0.327	0.069	22.5
		Body w	orn Test	data of	U-NII-2C	(Separa	te 15mm)	I.		l l	
Front side	802.11ac 80M				0.148	-0.04	19.33	20.00	1.168	0.174	22.5
	802.11ac 80M	138/5690	99.43%	1.006	0.253	0.03	19.33	20.00	1.168	0.297	22.5
	802.11ac 80M				0.253	0.03	19.33	16.50	0.522	0.133	22.5
	802.11ac 80M	138/5690	99.43%	1.006	0.253	0.03	19.33	18.50	0.827	0.210	22.5
Back side DBS											
Simultaneous	802.11ac 80M	138/5690	99.43%	1.006	0.253	0.03	19.33	13.50	0.261	0.067	22.5
		Body w	orn Tes	t data o	f U-NII-3(	Separat	e 15mm)				
Front side	802.11a	149/5745	99.06%	1.009	0.179	0.01	21.33	22.00	1.167	0.211	22.5
Back side	802.11a	149/5745	99.06%	1.009	0.334	0.09	21.33	22.00	1.167	0.393	22.5
Back side-DBS	802.11a	149/5745	aa ne%	1 000	0.334	0.09	21.33	19.50	0.656	0.221	22.5
Simultaneous	002.11a							19.50	0.030	0.221	22.5
	T				J-NII-1(S	Separate		Ī	•		
	802.11ac 80M				0.110	0.02	17.33	18.00	1.167	0.129	22.5
	802.11ac 80M				0.193	-0.09	17.33	18.00	1.167	0.226	22.5
-	802.11ac 80M				0.197	0.11	17.33	18.00	1.167	0.231	22.5
Top side	802.11ac 80M				0.210	0.02	17.33	18.00	1.167	0.246	22.5
					J-NII-3 (S	-					
	802.11ac 80M				0.071	0.04	15.14	16.00	1.219	0.087	22.5
	802.11ac 80M				0.103	0.01	15.14	16.00	1.219	0.126	22.5
-	802.11ac 80M				0.149	-0.08	15.14	16.00	1.219	0.183	22.5
Top side	802.11ac 80M	155/5775	99.43%		0.197	0.08	15.14	16.00	1.219	0.242	22.5
		_ ,		Duty	SAR	Power		_		Scaled	1 : : -1
Test position	Test mode	Test ch./Freq.	Duty	Cycle	(\M/ka)	drift	Conducted Power(dBm)			SAR 10-	Liquid Temp.(℃)
		cii./rreq.	Cycle	Scaled	10-g		Power (ubili)	Liiiiil(abiii)	Tactor	g	remp.(C)
	D			tactor	•	(dB)				(W/ka)	
Front side	Proc	uct specif	ic 10aS	factor AR Test			(Separate 0mr	n)		(W/kg)	
i iontale		•		AR Test	data of l	J-NII-2A	(Separate 0mr	· '	1.202		22.5
	802.11n 40M	54/5270	99.63%	AR Test 1.004	data of U	J-NII-2A 0.02	20.20	21.00	1.202	1.376	22.5
Back side	802.11n 40M 802.11n 40M	54/5270 54/5270	99.63% 99.63%	AR Test 1.004 1.004	data of U 1.140 0.488	J-NII-2A 0.02 0.05	20.20 20.20	21.00 21.00	1.202	1.376 0.589	22.5
Back side Right side	802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270	99.63% 99.63% 99.63%	AR Test 1.004 1.004 1.004	data of U 1.140 0.488 1.390	J-NII-2A 0.02 0.05 -0.01	20.20 20.20 20.20	21.00 21.00 21.00	1.202 1.202	1.376 0.589 1.677	22.5 22.5
Back side Right side Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270	99.63% 99.63% 99.63% 99.63%	AR Test 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050	J-NII-2A( 0.02 0.05 -0.01 0.02	20.20 20.20 20.20 20.20	21.00 21.00	1.202 1.202 1.202	1.376 0.589 1.677 <b>2.474</b>	22.5 22.5 22.5
Back side Right side Top side Top side-repeated	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270	99.63% 99.63% 99.63% 99.63%	1.004 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050 2.010	J-NII-2A 0.02 0.05 -0.01 0.02 0.03	20.20 20.20 20.20 20.20 20.20	21.00 21.00 21.00 21.00 21.00	1.202 1.202 1.202 1.202	1.376 0.589 1.677 <b>2.474</b> 2.426	22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270	99.63% 99.63% 99.63% 99.63% 99.63%	1.004 1.004 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050 2.010 2.050	J-NII-2A( 0.02 0.05 -0.01 0.02 0.03 0.02	20.20 20.20 20.20 20.20 20.20 20.20	21.00 21.00 21.00 21.00 21.00 18.00	1.202 1.202 1.202 1.202 0.603	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240	22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270	99.63% 99.63% 99.63% 99.63% 99.63% 99.63%	1.004 1.004 1.004 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050	J-NII-2A( 0.02 0.05 -0.01 0.02 0.03 0.02 0.02	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20	21.00 21.00 21.00 21.00 21.00 21.00 18.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63%	1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050	J-NII-2A( 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63%	1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050 1.610	J-NII-2A( 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20	21.00 21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00	1.202 1.202 1.202 1.202 0.603 0.955	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct specif	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% jc. 10gS/	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 AR Test	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050 1.610	J-NII-2A 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 0.02 J-NII-2C	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr	21.00 21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side	802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct specif 138/5690	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 AR Test 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050 1.610 data of U 0.894	J-NII-2A 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2C 0.19	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m)	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct speciff 138/5690 138/5690	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 1.610 data of U 0.894 0.382	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33	21.00 21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m) 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side	802.11n 40M 802.11n 40M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct specif 138/5690 138/5690	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050 1.610 data of U 0.894	J-NII-2A 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2C 0.19	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m)	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct specif 138/5690 138/5690 138/5690	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS 99.43% 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 2.050 1.610 data of U 0.894 0.382 1.510	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01 0.01 0.07	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33 19.33	21.00 21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m) 20.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168 1.168	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988 1.050 0.449 1.773	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side Top side Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct speciff 138/5690 138/5690 138/5690 106/5530	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS/ 99.43% 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 1.610 data of U 0.894 0.382 1.510 1.730 2.150	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01 0.01 0.07 -0.05	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33 19.33 19.33	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m) 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168 1.168 1.168	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988 1.050 0.449 1.773 2.032	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side Top side Top side Top side Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct speciff 138/5690 138/5690 138/5690 106/5530	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS/ 99.43% 99.43% 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006 1.006 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 1.610 data of U 0.894 0.382 1.510 1.730	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01 0.01 0.07	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33 19.33	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 m) 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168 1.168 1.168 1.191	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988 1.050 0.449 1.773 2.032 <b>2.575</b> 2.492	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side Top side	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct speciff 138/5690 138/5690 138/5690 106/5530 106/5530	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS/ 99.43% 99.43% 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006 1.006 1.006 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 1.610 data of U 0.894 0.382 1.510 1.730 2.150 2.080 2.150	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01 0.07 -0.05 0.09	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33 19.33 19.33 19.34 19.24	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168 1.168 1.168 1.191 1.191	1.376 0.589 1.677 <b>2.474</b> 2.426 1.240 1.965 0.621 1.988 1.050 0.449 1.773 2.032 <b>2.575</b>	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Back side Right side Top side Top side-repeated Top side-Simultaneous Top side-DBS Top side-DBS Simultaneous Top side Front side Back side Right side Top side Top side Top side Top side-Simultaneous Top side-Simultaneous	802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M 802.11n 40M Prod 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M 802.11ac 80M	54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 54/5270 62/5310 uct speciff 138/5690 138/5690 138/5690 106/5530 106/5530 106/5530	99.63% 99.63% 99.63% 99.63% 99.63% 99.63% 99.63% ic 10gS/ 99.43% 99.43% 99.43% 99.43% 99.43%	AR Test 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.006 1.006 1.006 1.006 1.006 1.006 1.006	data of U 1.140 0.488 1.390 2.050 2.010 2.050 2.050 1.610 data of U 0.894 0.382 1.510 1.730 2.150 2.080	J-NII-2AI 0.02 0.05 -0.01 0.02 0.03 0.02 0.02 0.02 0.02 J-NII-2CI 0.19 0.01 0.07 -0.05 0.09 -0.05	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.10 (Separate Omr 19.33 19.33 19.33 19.33 19.34 19.24 19.24	21.00 21.00 21.00 21.00 21.00 18.00 20.00 15.00 21.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 0.603 0.955 0.302 1.230 1.168 1.168 1.168 1.191 1.191 0.532	1.376 0.589 1.677 2.474 2.426 1.240 1.965 0.621 1.988 1.050 0.449 1.773 2.032 2.575 2.492 1.150	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5



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Top side 802.11ac 80M 122/5610 99.43% 1.006 2.120 0.09 19.32 20.00 1.168 2.491 22.5

Table 33: SAR of WIFI 5G for Head and Body.

Test Position	Channel/ Frequency		1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	58/5290	0.828	0.816	1.014705882	N/A	N/A
Left tilted	106/5530	0.802	0.795	1.008805031	N/A	N/A
Left tilted	155/5775	0.82	0.816	1.004901961	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Test Position	Channel/ Frequency	mode and a control	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Left tilted	54/5270	2.05	2.01	1.019900498	N/A	N/A
Left tilted	106/5530	2.15	2.08	1.033653846	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 3.63 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 2.0 W/kg

#### Note:

1) As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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#### 9.2.2 SAR Result of BT

				Blueto	oth SAR Te	est Record					
				Ar	nt16 Test R	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
					Head Test				1		
Left cheek	DH5	0/2402	77.01%		0.059	-0.17	7.94	9.50	1.432	0.110	22.5
Left tilted	DH5	0/2402	77.01%		0.066	-0.09	7.94	9.50	1.432	0.123	22.5
Right cheek	DH5	1	77.01%		0.044	-0.02	7.94	9.50	1.432	0.082	22.5
Right tilted	DH5	0/2402	77.01%		0.052	-0.10	7.94	9.50	1.432	0.097	22.5
					Test data(S	eparate 15					
Front side	DH5	0/2402	77.01%	1.299	0.007	-0.06	14.98	16.50	1.419	0.013	22.5
Back side	DH5	0/2402	77.01%	1.299	0.034	-0.01	14.98	16.50	1.419	0.063	22.5
			Н	otspot Te	est data (Se	parate 10n	nm)				
Front side	DH5	0/2402	77.01%	1.299	0.022	0.01	10.86	12.50	1.459	0.042	22.5
Back side	DH5	0/2402	77.01%	1.299	0.026	-0.03	10.86	12.50	1.459	0.049	22.5
Right side	DH5	0/2402	77.01%	1.299	0.021	0.06	10.86	12.50	1.459	0.040	22.5
Top side	DH5	0/2402	77.01%	1.299	0.065	-0.07	10.86	12.50	1.459	0.123	22.5
				Α	nt7 Test Re	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
					Head Test	data					
Left cheek	DH5	39/2441	77.01%	1.299	0.081	-0.13	5.26	6.00	1.186	0.125	22.5
Left tilted	DH5	39/2441	77.01%	1.299	0.028	-0.09	5.26	6.00	1.186	0.043	22.5
Right cheek	DH5	39/2441	77.01%	1.299	0.017	0.03	5.26	6.00	1.186	0.026	22.5
Right tilted	DH5	39/2441	77.01%	1.299	0.010	0.17	5.26	6.00	1.186	0.015	22.5
			Boo	dy worn <sup>-</sup>	Test data(S	eparate 15	mm)				
Front side	DH5	39/2441	77.01%	1.299	0.060	0.16	15.32	16.50	1.312	0.102	22.5
Back side	DH5	39/2441	77.01%	1.299	0.069	-0.15	15.32	16.50	1.312	0.118	22.5
			Н	otspot Te	est data (Se	parate 10n	nm)				
Front side	DH5	39/2441	77.01%	1.299	0.028	0.12	12.13	13.50	1.371	0.050	22.5
Back side	DH5	39/2441	77.01%	1.299	0.032	0.17	12.13	13.50	1.371	0.057	22.5
Right side	DH5	39/2441	77.01%	1.299	0.070	0.13	12.13	13.50	1.371	0.125	22.5
Top side	DH5	39/2441	77.01%	1.299	0.000	0.05	12.13	13.50	1.371	0.000	22.5

Table 34: SAR of BT for Head and Body.



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#### 9.2.1 SAR Result of NFC

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
		1	NFC Test da	ata (Sepa	rate 0mm	)			
Front side	NFC	13.56MHz	100.00%	1.000	0.001	0.03	1.000	0.001	22.3
Back side	NFC	13.56MHz	100.00%	1.000	0.050	0.02	1.000	0.050	22.3
Left side	NFC	13.56MHz	100.00%	1.000	0.001	-0.01	1.000	0.001	22.3
Right side	NFC	13.56MHz	100.00%	1.000	0.001	0.09	1.000	0.001	22.3
Top side	NFC	13.56MHz	100.00%	1.000	0.001	0.05	1.000	0.001	22.3
Bottom side	NFC	13.56MHz	100.00%	1.000	0.001	0.02	1.000	0.001	22.3

Table 35: SAR of NFC for Body.



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### 9.3 Multiple Transmitter Evaluation

#### 9.3.1 Simultaneous SAR SAR test evaluation

#### Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WIFI5G MIMO + BT (Ant16)	Υ	Υ	Υ	Υ
2	WIFI5G MIMO + BT (Ant7)	Υ	Υ	Υ	Y
3	WIFI5G MIMO + BT (Ant16+7)	Υ	Υ	Υ	Υ
4	WIFI2.4G MIMO + WIFI5G MIMO	Υ	Υ	Υ	Υ
5	WWAN + WIFI2.4G MIMO	Υ	Υ	Υ	Υ
6	WWAN + WIFI5G MIMO	Y	Υ	Υ	Υ
7	WWAN + WIFI2.4G MIMO+WIFI5G MIMO	Υ	Υ	Υ	Υ
8	WWAN + BT(Ant16)	Y	Υ	Υ	Υ
9	WWAN + BT(Ant7)	Υ	Υ	Υ	Υ
10	WWAN + WIFI5G MIMO + BT (Ant16)	Υ	Υ	Υ	Y
11	WWAN + WIFI5G MIMO + BT (Ant7)	Y	Y	Υ	Y
12	WWAN + WIFI5G MIMO + BT (Ant16+7)	Y	Υ	Υ	Y

#### Note:

- 1) The device support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) NFC is different from the working scenario of WWAN/WIFI and does not participate in the simultaneous transmission.
- 4) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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#### 9.3.2 Simultaneous Transmission SAR Summation Scenario Simultaneous Transmission SAR Summation Scenario for WLAN Head:

	lanoou	o man	011110010	711 <b>0</b> 7 ti t	SARm	ax (W/kg)									
Test p	oosition	Main	WiFi 2.4G MIMO For Simultaneous	WiFi 2.4G MIMO For DBS	WiFi 2.4G MIMO For DBS Simultaneous	WiFi 5G MIMO For Simultaneous	WiFi 5G MIMO For DBS	WiFi 5G MIMO For DBS Simultaneous	BT ANT16	BT ANT7		s	ummed	SAR	
		1	2	3	4	5	6	7	8	9	1+2	1+5	1+4+7	1+7+8+9	
	Left cheek	0.844	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.291	1.340	1.408	1.392	1.557
GSM850	Left tilted	0.108	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.555	0.604	0.557	0.587	1.557
	Right cheek Right tilted	0.499	0.447 0.447	0.772 0.772	0.057 0.073	0.496 0.496	0.785 0.785	0.313 0.313	0.082 0.097	0.026 0.015	0.946	0.995	0.869	0.920	1.557
	Left cheek	0.572	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.019	1.068	1.136	1.120	1.557
	Left tilted	0.114	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.561	0.610	0.563	0.593	1.557
GSM1900	Right cheek	0.559	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.006	1.055	0.929	0.980	1.557
	Right tilted	0.076	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.523	0.572	0.462	0.501	1.557
	Left cheek	0.641	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.088	1.137	1.205	1.189	1.557
WCDMA	Left tilted	0.105	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.552	0.601	0.554	0.584	1.557
II	Right cheek	0.641	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.088	1.137	1.011	1.062	1.557
	Right tilted	0.076	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.523	0.572	0.462	0.501	1.557
	Left cheek	0.513	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	0.960	1.009	1.077	1.061	1.557
WCDMA IV	Left tilted	0.235	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.682 1.536	0.731	0.684	0.714	1.557
10	Right cheek Right tilted	1.089 0.435	0.447 0.447	0.772 0.772	0.057 0.073	0.496 0.496	0.785 0.785	0.313 0.313	0.082 0.097	0.026 0.015	0.882	1.585 0.931	1.459 0.821	1.510 0.860	1.557
	Left cheek	0.433	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.339	1.388	1.456	1.440	1.557
WCDMA	Left tilted	0.115	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.562	0.611	0.564	0.594	1.557
	Right cheek	0.432	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	0.879	0.928	0.802	0.853	1.557
	Right tilted	0.102	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.549	0.598	0.488	0.527	1.557
	Left cheek	1.005	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.452	1.501	1.569	1.553	1.557
LTE B2	Left tilted	0.155	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.602	0.651	0.604	0.634	1.557
LILDZ	Right cheek	0.936	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.383	1.432	1.306	1.357	1.557
	Right tilted	0.115	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.562	0.611	0.501	0.540	1.557
	Left cheek	0.704	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.151	1.200	1.268	1.252	1.557
LTE B4	Left tilted Right cheek	0.242	0.447 0.447	0.772 0.772	0.136 0.057	0.496 0.496	0.785 0.785	0.313 0.313	0.123 0.082	0.043 0.026	0.689 1.362	0.738	0.691 1.285	0.721 1.336	1.557
	Right tilted	0.915	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	0.826	1.411 0.875	0.765	0.804	1.557
	Left cheek	0.707	0.447	0.772	0.073	0.496	0.785	0.313	0.110	0.125	1.154	1.203	1.271	1.255	1.557
	Left tilted	0.103	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.550	0.599	0.552	0.582	1.557
LTE B5	Right cheek	0.469	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	0.916	0.965	0.839	0.890	1.557
	Right tilted	0.091	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.538	0.587	0.477	0.516	1.557
	Left cheek	0.349	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	0.796	0.845	0.913	0.897	1.557
LTE B7	Left tilted	0.343	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.790	0.839	0.792	0.822	1.557
2.25.	Right cheek	1.082	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.529	1.578	1.452	1.503	1.557
	Right tilted	0.578	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	1.025	1.074	0.964	1.003	1.557
	Left cheek	0.412	0.447 0.447	0.772	0.251 0.136	0.496 0.496	0.785 0.785	0.313 0.313	0.110 0.123	0.125 0.043	0.859 0.786	0.908	0.976 0.788	0.960 0.818	1.557
LTE B41(38)	Left tilted Right cheek	0.339	0.447	0.772 0.772	0.057	0.496	0.785	0.313	0.082	0.043	1.419	1.468	1.342	1.393	1.557
D (00)	Right tilted	0.898	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	1.345	1.394	1.284	1.323	1.557
	Left cheek	0.854	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.301	1.350	1.418	1.402	1.557
. TE D.40	Left tilted	0.602	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	1.049	1.098	1.051	1.081	1.557
LTE B48	Right cheek	0.497	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	0.944	0.993	0.867	0.918	1.557
	Right tilted	0.374	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.821	0.870	0.760	0.799	1.557
	Left cheek	0.704	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.151	1.200	1.268	1.252	1.557
LTE 66	Left tilted	0.242	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.689	0.738	0.691	0.721	1.557
	Right cheek Right tilted	0.915	0.447 0.447	0.772 0.772	0.057 0.073	0.496 0.496	0.785 0.785	0.313 0.313	0.082 0.097	0.026 0.015	1.362 0.826	1.411	1.285 0.765	1.336 0.804	1.557
	Left cheek	0.579	0.447	0.772	0.073	0.496	0.785	0.313	0.110	0.015	0.020	0.875 1.047	1.115	1.099	1.557
	Left tilted	0.096	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.543	0.592	0.545	0.575	1.557
5GNR n2	Right cheek	0.529	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	0.976	1.025	0.899	0.950	1.557
	Right tilted	0.067	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015			0.453	0.492	1.557
	Left cheek	0.850	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.297	1.346		1.398	1.557
5GNR n5	Left tilted	0.153	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.600	0.649	0.602	0.632	1.557
COLVECTIO	Right cheek	0.655	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.102	1.151	1.025	1.076	1.557
	Right tilted	0.125	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.572	0.621	0.511	0.550	1.557
	Left cheek	0.508	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	0.955	1.004	1.072	1.056	1.557
5GNR n7	Left tilted	0.122	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	0.569	0.618	0.571	0.601	1.557
	Right cheek Right tilted	0.910	0.447 0.447	0.772 0.772	0.057 0.073	0.496 0.496	0.785 0.785	0.313 0.313	0.082 0.097	0.026 0.015	1.357 0.708	1.406 0.757	1.280 0.647	1.331 0.686	1.557
	Left cheek	0.261	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.708	1.002	1.070	1.054	1.557
5GNR	Left tilted	0.602	0.447	0.772	0.136	0.496	0.785	0.313	0.110	0.125	1.049	1.002	1.070	1.034	1.557
	Right cheek	0.885	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.332	1.381	1.255	1.306	1.557
` ′	Right tilted	0.834	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	1.281	1.330	1.220	1.259	1.557
	Left cheek	0.708	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.155		1.272	1.256	1.557
5GNR	Left Cheek														



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	Right cheek	0.777	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.224	1.273	1.147	1.198	1.557
	Right tilted	0.507	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.954	1.003	0.893	0.932	1.557
	Left cheek	0.956	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.403	1.452	1.520	1.504	1.557
5GNR	Left tilted	0.716	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	1.163	1.212	1.165	1.195	1.557
n77	Right cheek	0.660	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.107	1.156	1.030	1.081	1.557
	Right tilted	0.401	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.848	0.897	0.787	0.826	1.557
	Left cheek	0.956	0.447	0.772	0.251	0.496	0.785	0.313	0.110	0.125	1.403	1.452	1.520	1.504	1.557
5GNR	Left tilted	0.716	0.447	0.772	0.136	0.496	0.785	0.313	0.123	0.043	1.163	1.212	1.165	1.195	1.557
n78	Right cheek	0.778	0.447	0.772	0.057	0.496	0.785	0.313	0.082	0.026	1.225	1.274	1.148	1.199	1.557
	Right tilted	0.401	0.447	0.772	0.073	0.496	0.785	0.313	0.097	0.015	0.848	0.897	0.787	0.826	1.557



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### Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Body-worn:

	-worn:				0.45	0.848				1							
	ļ					max (W/kg)											
Test p	osition	Main	WiFi 2.4G MIMO For Simultaneous	WiFi 2.4G MIMO For DBS	WiFi 2.4G MIMO For DBS Simultaneous	WiFi 5G MIMO	WiFi 5G MIMO For Simultaneous	WiFi 5G MIMO For DBS	WiFi 5G MIMO For DBS Simultaneous	BT ANT16					med SAR		
		1	2	3	4	5	6	7	8	9	10	1+2	1+6	1+4+8	1+8+9+10	3+7	5+9+10
GSM850	Front side	0.296	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.524	0.463	0.631	0.632	0.627	0.326
GSIVIOSO	Back side	0.274	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.502	0.441	0.609	0.676	0.627	0.574
GSM1900	Front side	0.212	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.440	0.379	0.547	0.548	0.627	0.326
GGW1300	Back side	0.203	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118		0.370	0.538	0.605	0.627	0.574
WCDMA II	Front side	0.418	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.646	0.585	0.753	0.754	0.627	0.326
WODINE	Back side	0.482	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.710	0.649	0.817	0.884	0.627	0.574
WCDMA	Front side	0.415	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.643	0.582	0.750	0.751	0.627	0.326
IV	Back side	0.477	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.705	0.644	0.812	0.879	0.627	0.574
WCDMA V	Front side	0.433	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.661	0.600	0.768	0.769	0.627	0.326
	Back side	0.405	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.633	0.572	0.740	0.807	0.627	0.574
LTE B2	Front side	0.400	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.628	0.567	0.735	0.736	0.627	0.326
LILUZ	Back side	0.455	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118		0.622	0.790	0.857	0.627	0.574
LTE B4	Front side	0.483	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.711	0.650	0.818	0.819	0.627	0.326
LIL D4	Back side	0.545	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118		0.712	0.880	0.947	0.627	0.574
LTE B5	Front side	0.462	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.690	0.629	0.797	0.798	0.627	0.326
LILBO	Back side	0.473	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.701	0.640	0.808	0.875	0.627	0.574
LTE B7	Front side	0.606	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102		0.773	0.941	0.942	0.627	0.326
LILDI	Back side	0.589	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118		0.756	0.924	0.991	0.627	0.574
LTE	Front side	0.236	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.464	0.403	0.571	0.572	0.627	0.326
B41(38)	Back side	0.294	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.522	0.461	0.629	0.696	0.627	0.574
LTE B48	Front side	0.230	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.458	0.397	0.565	0.566	0.627	0.326
LIL D40	Back side	0.415	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.643	0.582	0.750	0.817	0.627	0.574
LTE 66	Front side	0.483	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.711	0.650	0.818	0.819	0.627	0.326
L1L 00	Back side	0.545	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063		0.773	0.712	0.880	0.947	0.627	0.574
5GNR n2	Front side	0.520	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.748	0.687	0.855	0.856	0.627	0.326
OCIVITA	Back side	0.363	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.591	0.530	0.698	0.765	0.627	0.574
5GNR n5	Front side	0.548	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102		0.715	0.883	0.884	0.627	0.326
OCIVITO	Back side	0.574	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	0.802	0.741	0.909	0.976	0.627	0.574
5GNR n7	Front side	0.481	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.709	0.648	0.816	0.817	0.627	0.326
JOINT	Back side	0.546	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118		0.713	0.881	0.948	0.627	0.574
5GNR	Front side	0.555	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102		0.722	0.890	0.891	0.627	0.326
n41(38)	Back side	1.082	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	1.310	1.249	1.417	1.484	0.627	0.574
5GNR n48	Front side	0.443	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.671	0.610	0.778	0.779	0.627	0.326
5514111140	Back side	0.975	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	1.203	1.142	1.310	1.377	0.627	0.574
5GNR n77	Front side	0.492	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.720	0.659	0.827	0.828	0.627	0.326
O SIVIL III I	Back side	0.947	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	1.175	1.114	1.282	1.349	0.627	0.574
5GNR n78	Front side	0.492	0.228	0.362	0.114	0.211	0.167	0.265	0.221	0.013	0.102	0.720	0.659	0.827	0.828	0.627	0.326
JOINT 11/0	Back side	0.947	0.228	0.362	0.114	0.393	0.167	0.265	0.221	0.063	0.118	1.175	1.114	1.282	1.349	0.627	0.574



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Hotspot:

			SARmax (W/kg	)				
Test	position	Main	WiFi 2.4G	WiFi 5G	BT ANT16	BT ANT7	Sumi	med SAR
		1	2	3	4	5	1+2+3	1+3+4+5
	Front side	0.188	0.164	0.129	0.042	0.050	0.481	0.409
	Back side	0.240	0.183	0.226	0.049	0.057	0.649	0.572
GSM850	Left side	0.278	0.000	0.000	0.000	0.000	0.278	0.278
GSIVIOSO	Right side	0.000	0.245	0.231	0.040	0.125	0.476	0.396
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.179	0.000	0.000	0.000	0.000	0.179	0.179
	Front side	0.256	0.164	0.129	0.042	0.050	0.549	0.477
	Back side	0.300	0.183	0.226	0.049	0.057	0.709	0.632
GSM1900	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.400	0.245	0.231	0.040	0.125	0.876	0.796
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.698	0.000	0.000	0.000	0.000	0.698	0.698
	Front side	0.284	0.164	0.129	0.042	0.050	0.577	0.505
	Back side	0.336	0.183	0.226	0.049	0.057	0.745	0.668
WCDMA II	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.478	0.245	0.231	0.040	0.125	0.954	0.874
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.747	0.000	0.000	0.000	0.000	0.747	0.747
	Front side	0.493	0.164	0.129	0.042	0.050	0.786	0.714
	Back side	0.555	0.183	0.226	0.049	0.057	0.964	0.887
WCDMA IV	Left side	0.385	0.000	0.000	0.000	0.000	0.385	0.385
	Right side	0.439	0.245	0.231	0.040	0.125	0.915	0.835
	Top side Bottom side	0.133 1.045	0.189 0.000	0.246 0.000	0.123 0.000	0.000	0.568 1.045	0.502 1.045
	Front side	0.351	0.164	0.129	0.000	0.050	0.644	0.572
	Back side	0.342	0.183	0.129	0.042	0.057	0.751	0.572
	Left side	0.486	0.000	0.000		0.000	0.751	
WCDMA V	Right side	0.488	0.000	0.231	0.000	0.000	0.466	0.486 0.396
	Top side	0.000	0.189	0.246	0.123	0.000	0.476	0.369
	Bottom side	0.205	0.000	0.000	0.000	0.000	0.433	0.205
	Front side	0.288	0.164	0.129	0.042	0.050	0.581	0.509
	Back side	0.274	0.183	0.226	0.049	0.057	0.683	0.606
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Right side	0.529	0.245	0.231	0.040	0.125	1.005	0.925
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.787	0.000	0.000	0.000	0.000	0.787	0.787
	Front side	0.390	0.164	0.129	0.042	0.050	0.683	0.611
	Back side	0.428	0.183	0.226	0.049	0.057	0.837	0.760
LTE D4	Left side	0.293	0.000	0.000	0.000	0.000	0.293	0.293
LTE B4	Right side	0.452	0.245	0.231	0.040	0.125	0.928	0.848
	Top side	0.095	0.189	0.246	0.123	0.000	0.530	0.464
	Bottom side	0.792	0.000	0.000	0.000	0.000	0.792	0.792
	Front side	0.360	0.164	0.129	0.042	0.050	0.653	0.581
	Back side	0.366	0.183	0.226	0.049	0.057	0.775	0.698
LTE B5	Left side	0.449	0.000	0.000	0.000	0.000	0.449	0.449
LIL DO	Right side	0.000	0.245	0.231	0.040	0.125	0.476	0.396
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.227	0.000	0.000	0.000	0.000	0.227	0.227
	Front side	0.254	0.164	0.129	0.042	0.050	0.547	0.475
	Back side	0.292	0.183	0.226	0.049	0.057	0.701	0.624
LTE B7	Left side	0.423	0.000	0.000	0.000	0.000	0.423	0.423
	Right side	0.253	0.245	0.231	0.040	0.125	0.729	0.649
	Top side	0.123	0.189	0.246	0.123	0.000	0.558	0.492
	Bottom side	0.537	0.000	0.000	0.000	0.000	0.537	0.537
	Front side	0.214	0.164	0.129	0.042	0.050	0.507	0.435
LTE B41(38)	Back side	0.340	0.183	0.226	0.049	0.057	0.749	0.672
	Left side	0.401	0.000	0.000	0.000	0.000	0.401	0.401



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	Right side	0.422	0.245	0.231	0.040	0.125	0.898	0.818
	Top side	0.535	0.189	0.246	0.123	0.000	0.970	0.904
	Bottom side	0.379	0.000	0.000	0.000	0.000	0.379	0.379
	Front side	0.182	0.164	0.129	0.042	0.050	0.475	0.403
	Back side	0.612	0.183	0.226	0.049	0.057	1.021	0.944
	Left side	0.279	0.000	0.000	0.000	0.000	0.279	0.279
LTE B48	Right side	0.332	0.245	0.231	0.040	0.125	0.808	0.728
	Top side	0.168	0.189	0.246	0.123	0.000	0.603	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.390	0.164	0.129	0.042	0.050	0.683	0.611
	Back side	0.428	0.183	0.226	0.049	0.057	0.837	0.760
	Left side	0.293	0.000	0.000	0.000	0.000	0.293	0.293
LTE 66	Right side	0.452	0.245	0.231	0.040	0.125	0.928	0.848
	Top side	0.095	0.189	0.246	0.123	0.000	0.530	0.464
	Bottom side	0.792	0.000	0.000	0.000	0.000	0.792	0.792
	Front side	0.379	0.164	0.129	0.042	0.050	0.672	0.600
	Back side	0.400	0.183	0.226	0.049	0.057	0.809	0.732
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5GNR n2	Right side	0.414	0.245	0.231	0.040	0.125	0.890	0.810
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.902	0.000	0.000	0.000	0.000	0.902	0.902
	Front side	0.360	0.164	0.129	0.042	0.050	0.653	0.581
	Back side	0.364	0.183	0.226	0.049	0.057	0.773	0.696
	Left side	0.430	0.000	0.000	0.000	0.000	0.430	0.430
5GNR n5	Right side	0.000	0.245	0.231	0.040	0.125	0.476	0.396
	Top side	0.000	0.189	0.246	0.123	0.000	0.435	0.369
	Bottom side	0.231	0.000	0.000	0.000	0.000	0.231	0.231
	Front side	0.215	0.164	0.129	0.042	0.050	0.508	0.436
	Back side	0.314	0.183	0.226	0.049	0.057	0.723	0.646
50110 7	Left side	0.242	0.000	0.000	0.000	0.000	0.242	0.242
5GNR n7	Right side	0.358	0.245	0.231	0.040	0.125	0.834	0.754
	Top side	0.011	0.189	0.246	0.123	0.000	0.446	0.380
	Bottom side	0.450	0.000	0.000	0.000	0.000	0.450	0.450
	Front side	0.292	0.164	0.129	0.042	0.050	0.585	0.513
	Back side	0.389	0.183	0.226	0.049	0.057	0.798	0.721
FOND = 44(20)	Left side	0.279	0.000	0.000	0.000	0.000	0.279	0.279
5GNR n41(38)	Right side	0.454	0.245	0.231	0.040	0.125	0.930	0.850
	Top side	0.637	0.189	0.246	0.123	0.000	1.072	1.006
	Bottom side	0.415	0.000	0.000	0.000	0.000	0.415	0.415
	Front side	0.162	0.164	0.129	0.042	0.050	0.455	0.383
	Back side	0.735	0.183	0.226	0.049	0.057	1.144	1.067
5GNR n48	Left side	0.299	0.000	0.000	0.000	0.000	0.299	0.299
3GIVIT 1140	Right side	0.321	0.245	0.231	0.040	0.125	0.797	0.717
	Top side	0.273	0.189	0.246	0.123	0.000	0.708	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.160	0.164	0.129	0.042	0.050	0.453	0.381
	Back side	0.916	0.183	0.226	0.049	0.057	1.325	1.248
5GNR n77	Left side	0.363	0.000	0.000	0.000	0.000	0.363	0.363
301111117	Right side	0.335	0.245	0.231	0.040	0.125	0.811	0.731
	Top side	0.384	0.189	0.246	0.123	0.000	0.819	0.753
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Į	Front side	0.160	0.164	0.129	0.042	0.050	0.453	0.381
[	Back side	0.916	0.183	0.226	0.049	0.057	1.325	1.248
5GNR n78	Left side	0.363	0.000	0.000	0.000	0.000	0.363	0.363
00.11.11110	Right side	0.335	0.245	0.231	0.040	0.125	0.811	0.731
	Top side	0.384	0.189	0.246	0.123	0.000	0.819	0.753
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Product specific 10g SAR:

1 Toddet specific Tog OAK.									
Test position	WiFi 2.4G MIMO For DBS	Summed SAR							
	1	2	1+2						
Front side	1.834	1.965	3.799						
Back side	1.834	1.965	3.799						
Left side	1.834	1.965	3.799						
Right side	1.834	1.965	3.799						
Top side	1.834	1.965	3.799						
Bottom side	1.834	1.965	3.799						



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### 10 Equipment list

<u>10</u>	Equipment list								
	Test Platform	SPEAG DASY8 Professional							
	Description	SAR Test System (Frequency range 10MHz-10GHz)							
	Software Reference DASY8 Module SAR V16.2.0.1425								
Hardware Reference									
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration			
	Twin Phantom	SPEAG	Twin-SAM V8.0	2103	NCR	NCR			
	Twin Phantom	SPEAG	SAM 3	1770	NCR	NCR			
$\boxtimes$	DAE	SPEAG	DAE4	1484	2023-06-05	2024-06-04			
$\boxtimes$	DAE	SPEAG	DAE4	1374	2022-10-17	2023-10-16			
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3793	2022-09-30	2023-09-29			
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3982	2023-01-06	2024-01-05			
	E-Field Probe	SPEAG	EX3DV4	7636	2023-06-05	2024-06-04			
	Validation Kits	SPEAG	CLA13	1032	2023-02-09	2024-02-08			
	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07			
	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2024-08-24			
$\boxtimes$	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15			
	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2024-05-03			
$\boxtimes$	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2024-08-27			
	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11			
$\boxtimes$	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16			
	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16			
$\boxtimes$	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19			
	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24			
$\boxtimes$	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05			
$\boxtimes$	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05			
$\boxtimes$	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12			
	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR			
$\boxtimes$	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05			
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR			
	Power Sensor	Keysight	U2002H	121251	2023-09-13	2024-09-12			
$\boxtimes$	Attenuator	SHX	TS2-3dB	30704	NCR	NCR			
	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR			
$\boxtimes$	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR			
	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR			
$\boxtimes$	Speed reading thermometer	LKM	DTM3000	NA	2023-09-14	2024-09-13			



**Humidity and Temperature** 

Indicator

 $\boxtimes$ 

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Note: All the equipments are within the valid period when the tests are performed.

11 Calibration certificate

Please see the Appendix C

12 **Photographs** 

Please see the Appendix D

**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

**Appendix E: Conducted RF Output Power** 

---END---

