FCC SAR TEST REPORT

Application No.:	AR/2021/B0007
Applicant:	Xiaomi Communications Co., Ltd.
Manufacturer:	Xiaomi Communications Co., Ltd.
Product Name:	Mobile Phone
Model No.(EUT):	21121210G
Trade Mark:	POCO
FCC ID:	2AFZZ1210G
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2021-12-08
Date of Test:	2021-12-19 to 2022-01-21
Date of Issue:	2022-01-21
Test conclusion:	**PASS ***

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

Authorized Signature:

Panta Sun

Panta Sun

Wireless Laboratory Manager

REVISION HISTORY

Report Number	Revision	Description	Issue Date
SUAR/2021/B000709	01	Original	2022-01-21

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.49	0.23	0.63	/
GSM1900	1.00	0.32	**1.05**	/
WCDMA Band II	0.95	0.51	0.81	/
WCDMA Band IV	0.27	0.28	1.02	/
WCDMA Band V	0.90	0.33	0.58	/
LTE Band 2	0.50	0.38	0.29	/
LTE Band 4	1.01	0.06	0.98	**2.66**
LTE Band 5	0.45	0.31	0.46	/
LTE Band 7	0.52	0.58	0.64	/
LTE Band 12	**1.09**	0.25	0.51	/
LTE Band 17	1.06	0.24	0.49	/
LTE Band 26	0.49	0.40	0.74	/
LTE Band 38	0.54	0.46	0.42	/
LTE Band 41	0.47	0.34	0.58	/
NR Band 5	0.51	0.30	0.45	/
NR Band 7	1.06	0.78	0.59	/
NR Band 38	1.01	0.71	0.44	/
NR Band 41	1.02	**0.99**	0.45	/
NR Band 77	1.00	0.73	0.39	/
NR Band 78 (Class2/Class3)	0.79	0.59	0.32	/
WI-FI (2.4GHz)	0.48	0.16	0.59	/
WI-FI (5GHz)	1.08	0.23	0.64	1.29
BT	0.40	0.06	0.18	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.56	1.51	1.34	3.79
SPLSR	N/A	N/A	N/A	N/A
SPLSR Limited	0.04			0.1

Note:
1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.

Reviewed by

Well Wei

Well Wei

Prepared by

Nature Shen

Nature Shen

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1 General Information

1.1 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

1.2 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:	Nature Shen, KING-P li

1.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	21121210G		
FCC ID:	2AFZZ1210G		
Trade Mark:	POCO		
Product Phase:	Identical Prototype		
IMEI:	863364050051545 863364050056940 863364050041561 863364050034087 863364050062625		
Hardware Version:	P2		
Software Version:	MIUI 13		
Antenna Type:	Fixed Internal Antenna		
Device Operating Configurations :			
Modulation Mode:	**GSM:** GMSK, 8PSK; **WCDMA:** QPSK; **LTE:** QPSK,16QAM,64QAM, 256QAM **5G NR:** DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) **WIFI:** DSSS, OFDM, OFDMA; **BT:** GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class	4,tested with power level 5(GSM850)		
	1,tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	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
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620

	LTE Band 41	2496~2690	2496~2690
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n77	3700~3980	3700~3980
	NR Band n78 (Class 2/3)	3700~3800	3700~3800
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
RF Cable:	☒ Provided by the aplicant ☐ Provided by the laboratory		
Battery Information:	Model:	BP48	
	Normal Voltage:	+7.74V	
	Rated capacity:	2280*2mAh	
	Manufacturer:	Dongguan Amperex Technology Limited	
Headset Information:	Model:	EM023	
	Manufacturer:	Tiinlab Acoustic Technology (Shenzhen) Co., Ltd.	

1.4.1 DUT Antenna Locations (Back View)

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

Note:
1) The test device is a smart phone. The overall diagonal dimension of this device is 173 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.
2) DIV Antenna does not support transmitter function.

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	Top	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	Yes	No
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 6	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	No
Ant 10	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 11	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 16+17	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
Ant 16+18	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 16+19	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1： EUT Sides for SAR Testing

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

1.4.2 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 ≤ 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 F_{UL_low} – F_{UL_high}			Downlink (DL) operating band BS transmit / UE receive F_{DL_low} – F_{DL_high}			Duplex Mode
CA_7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD
CA_38	38	2570 MHz	–	2620 MHz	2570 MHz	–	2620 MHz	TDD

c) The device supports Inter-band uplink LTE CA for 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.

1.4.3 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 hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.

2) 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

3) 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.

4) 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.

1.5 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
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 D01	General RF Exposure Guidance v06
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

1.6 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:

* 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

** The Spatial Average value of the SAR averaged over the whole body.

*** 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.

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.)

2 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 in compliance with requirement of standards.	

Table 2： The Ambient Conditions

3 SAR Measurements System Configuration

3.1 The SAR Measurement System

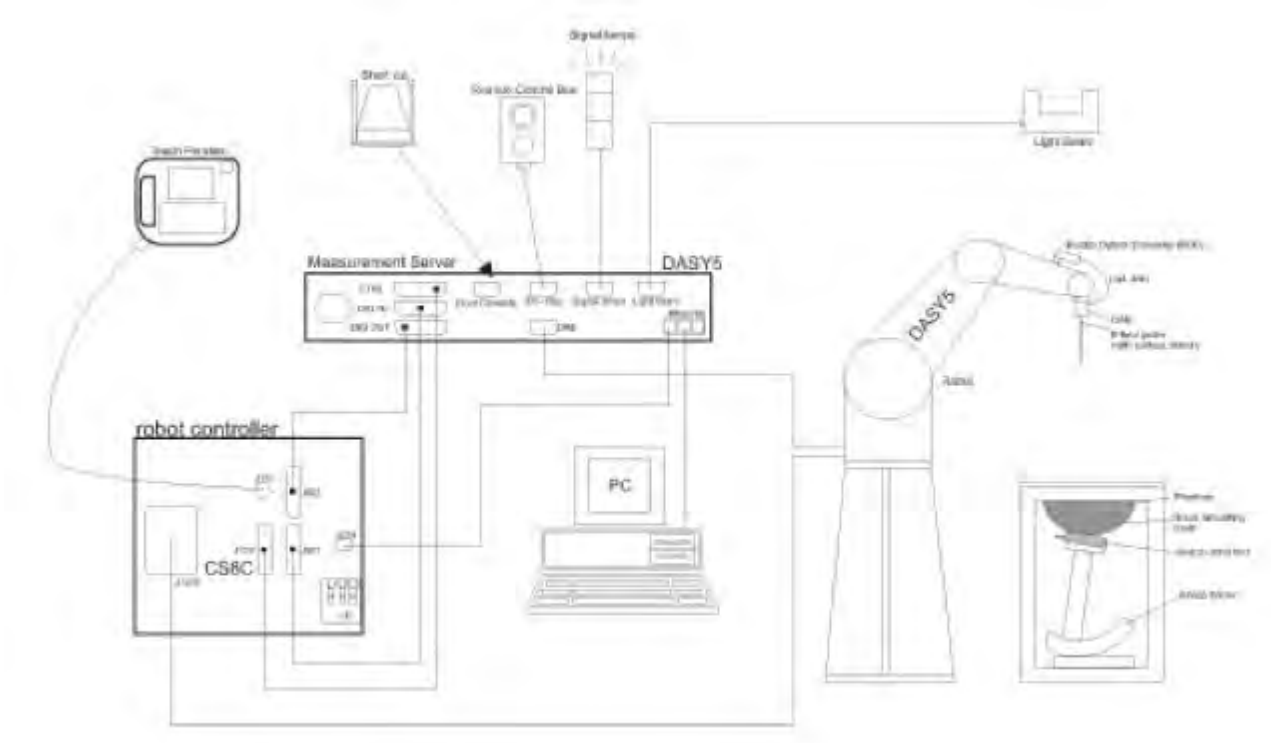
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the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

- 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.

3.2 Isotropic E-field Probe EX3DV4

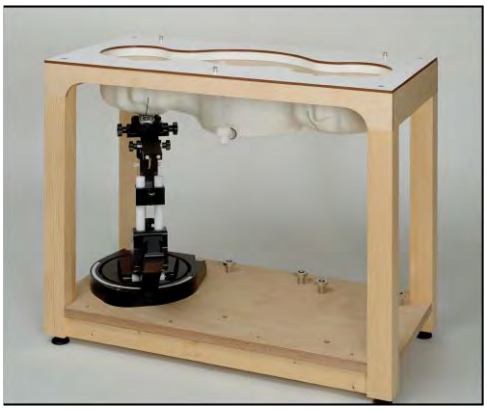
	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (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

3.3 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

3.4 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.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue 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

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 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 SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

3.6 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 ε=3 and loss tangent δ=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.

3.7 Measurement procedure

3.7.1 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.

			≤ 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 from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			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: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 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. ± 5 %

3.7.2 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 re-evaluated. 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.

3.7.3 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 factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	ε
	- Density	ρ

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:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

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:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

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 (i = x, y, z)
[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
σ= 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.

$$P_{pwe} = {E_{tot}}^2{}_2 / 3770 \text{ or } \quad P_{pwe} = {H_{tot}}^2 \cdot 37.7$$

with 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

4 SAR measurement variability and uncertainty

4.1 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 re-mounted 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 ⩾ 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 ⩾ 1.45 W/kg (~ 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.

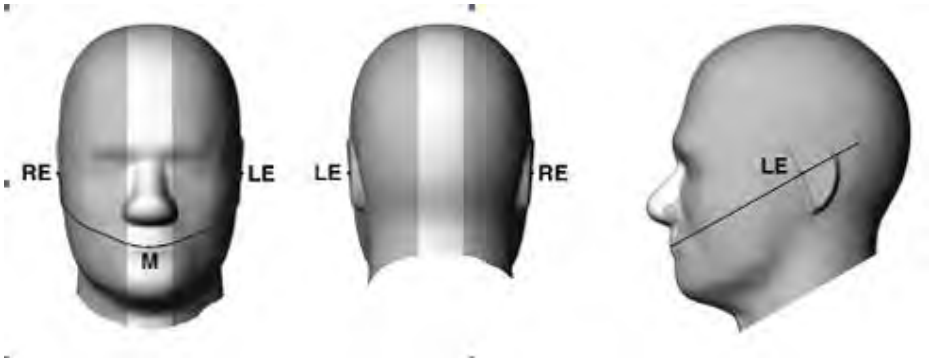
4.2 SAR measurement uncertainty

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.

5 Description of Test Position

5.1 Head Exposure Condition

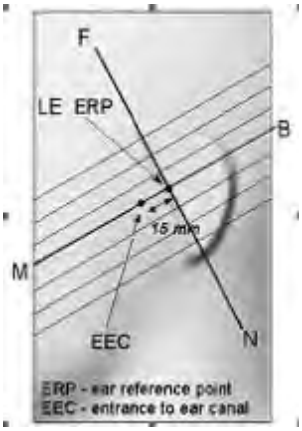
5.1.1 SAM Phantom Shape



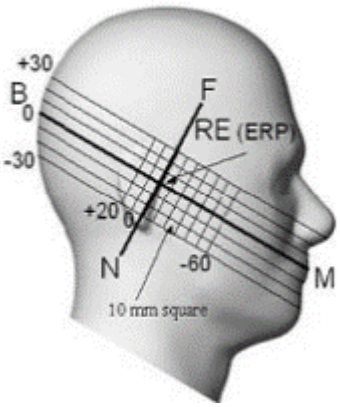
F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

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)

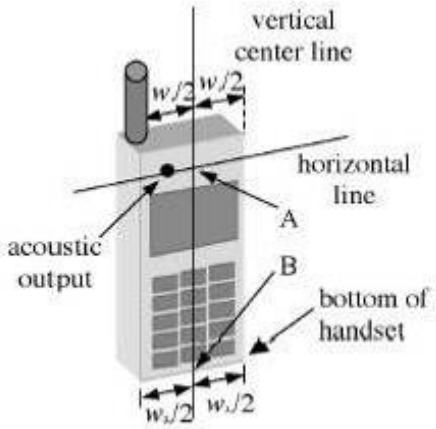


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

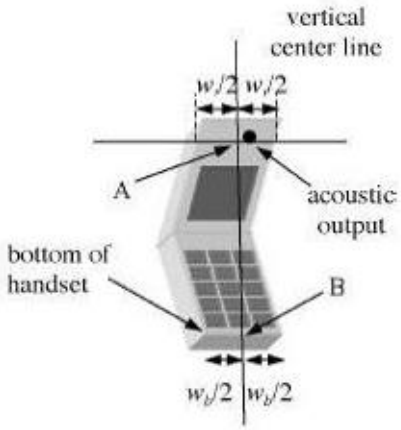


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



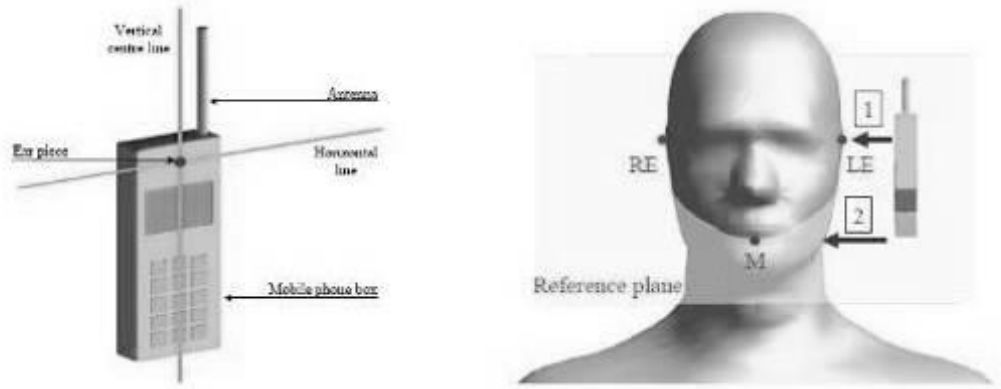
F-8. Handset vertical and horizontal reference lines-“clam-shell case”

5.1.3 Definition of the “cheek” position

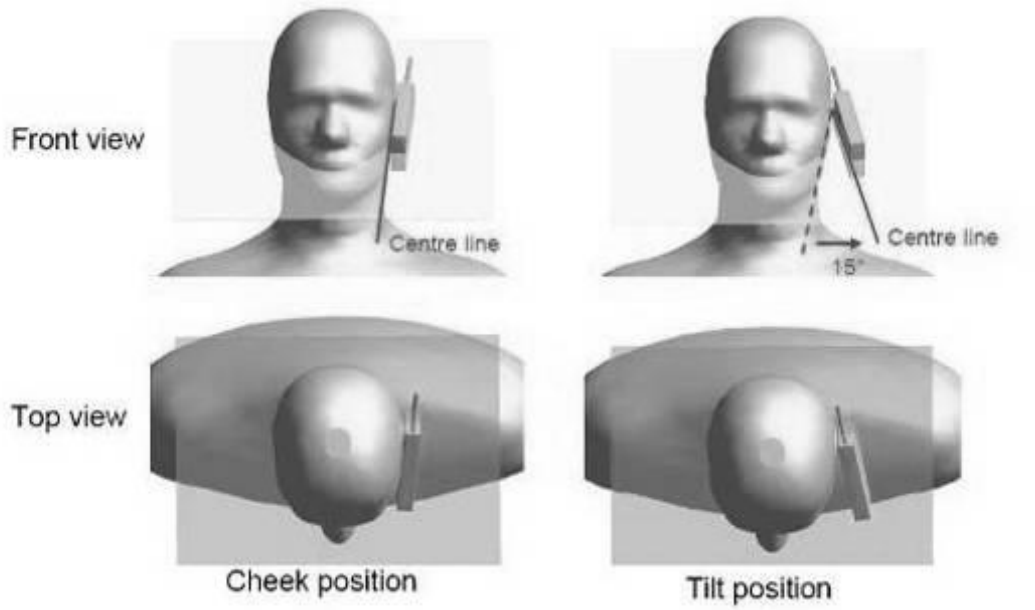
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the 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.

5.1.4 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**

5.2 Body Exposure Condition

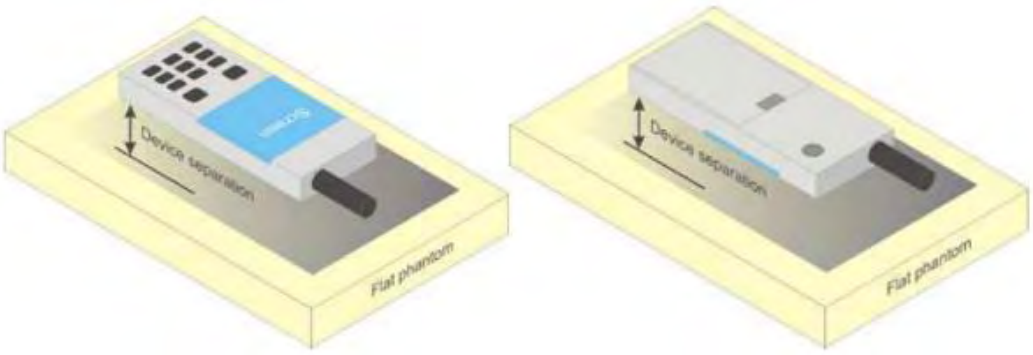
5.2.1 Body-worn accessory exposure conditions

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, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 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**

5.2.2 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 ≥ 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.

5.3 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 ≤ 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, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

LTE B4 (Ant4)

Ant4 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(W/kg)	Product Specific 10-g SAR SAR Exclusio
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.233	0.02	15.00	25.00	10.000	2.330	No
Back side	20	QPSK 1_0	20050/1720	1:1	0.307	0.20	15.00	25.00	10.000	3.070	No
Left side	20	QPSK 1_0	20050/1720	1:1	0.074	0.05	15.00	25.00	10.000	0.744	Yes
Rightt side	20	QPSK 1_0	20050/1720	1:1	0.032	0.08	15.00	25.00	10.000	0.320	Yes
Top side	20	QPSK 1_0	20050/1720	1:1	0.450	0.04	15.00	25.00	10.000	4.500	No
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.245	0.01	14.90	24.00	8.128	1.991	No
Back side	20	QPSK 50_25	20050/1720	1:1	0.342	0.18	14.90	24.00	8.128	2.780	No
Left side	20	QPSK 50_25	20050/1720	1:1	0.075	0.04	14.90	24.00	8.128	0.608	Yes
Rightt side	20	QPSK 50_25	20050/1720	1:1	0.034	0.08	14.90	24.00	8.128	0.276	Yes
Top side	20	QPSK 50_25	20050/1720	1:1	0.482	0.02	14.90	24.00	8.128	3.918	No

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
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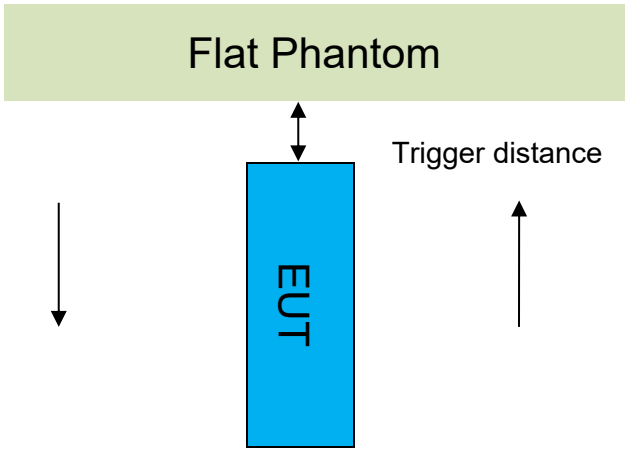
5.4 Proximity Sensor Triggering Test

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.

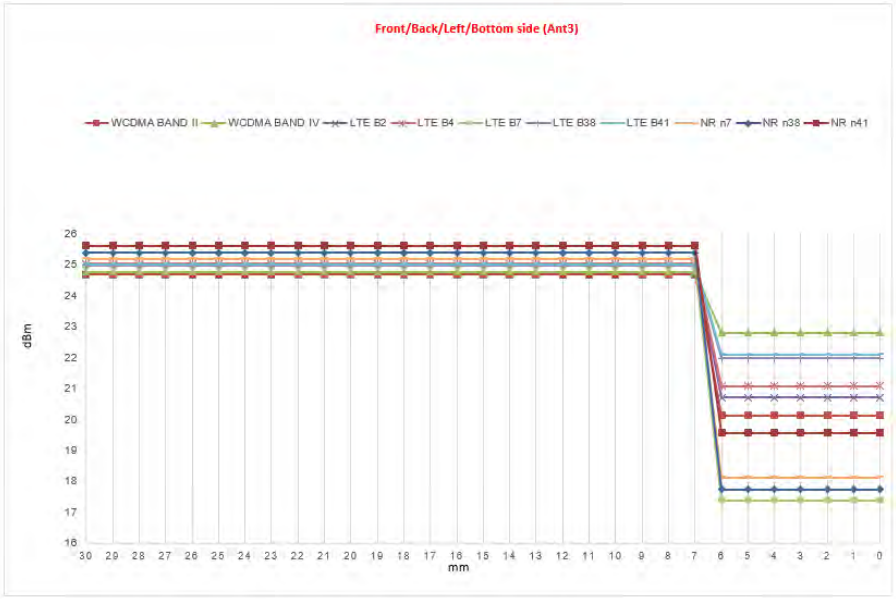


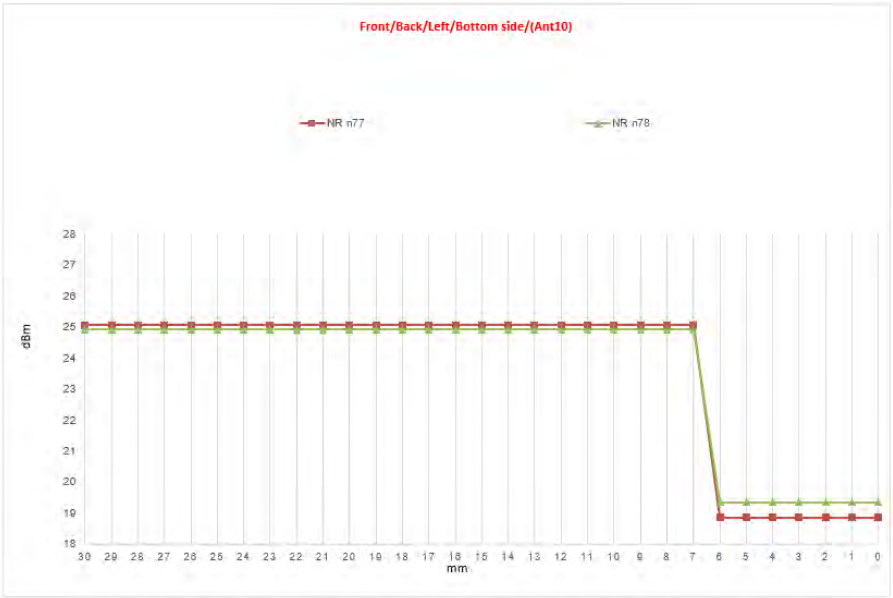
Proximity Sensor Triggering Distance(mm)		
Antenna	Ant1/4/5/10/11	Ant0/3
Position	Front/Back/Left/Top side	Front/Back/Left/Bottom side
Minimum	16	6
Required SAR Test	15	5

Note:

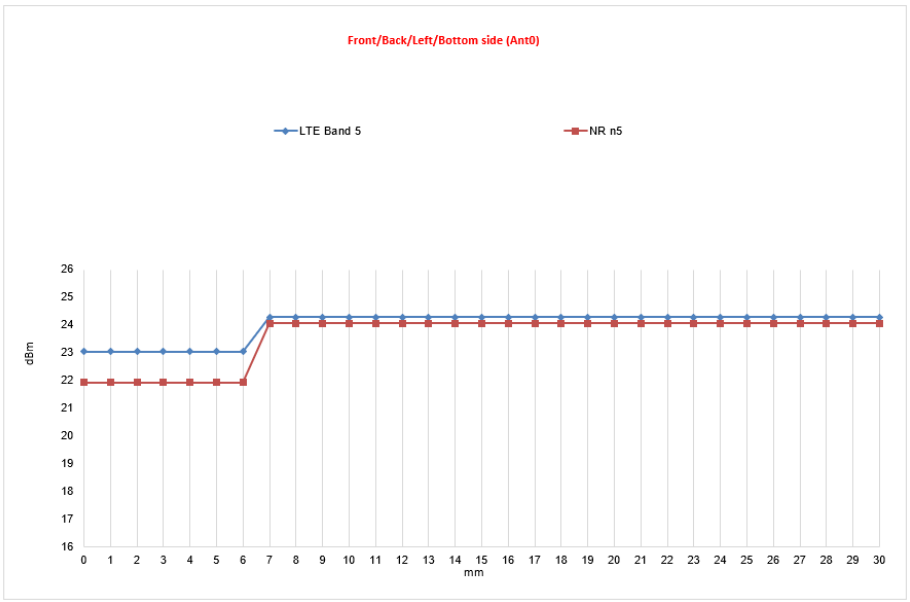
SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

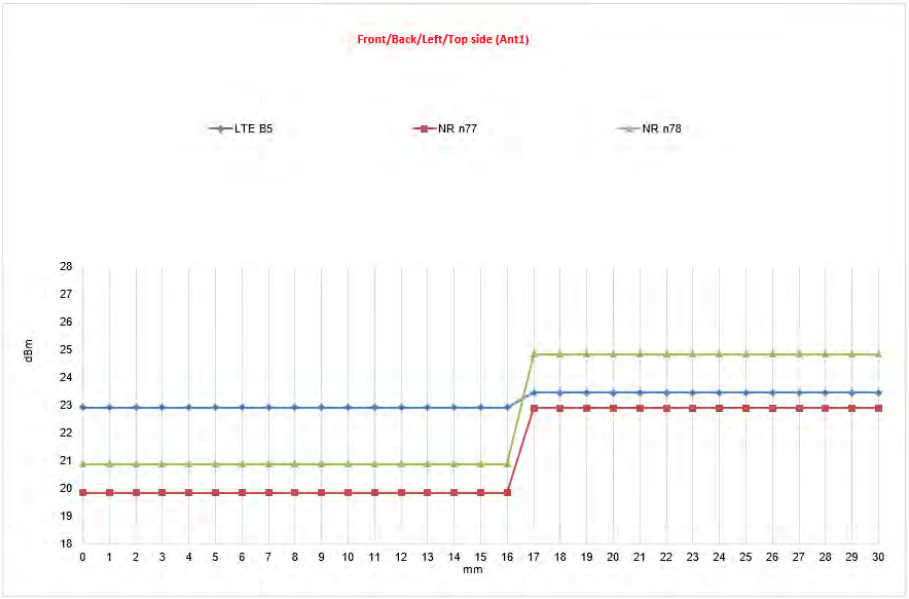
- DUT Moving Toward(Trigger)the Phantom

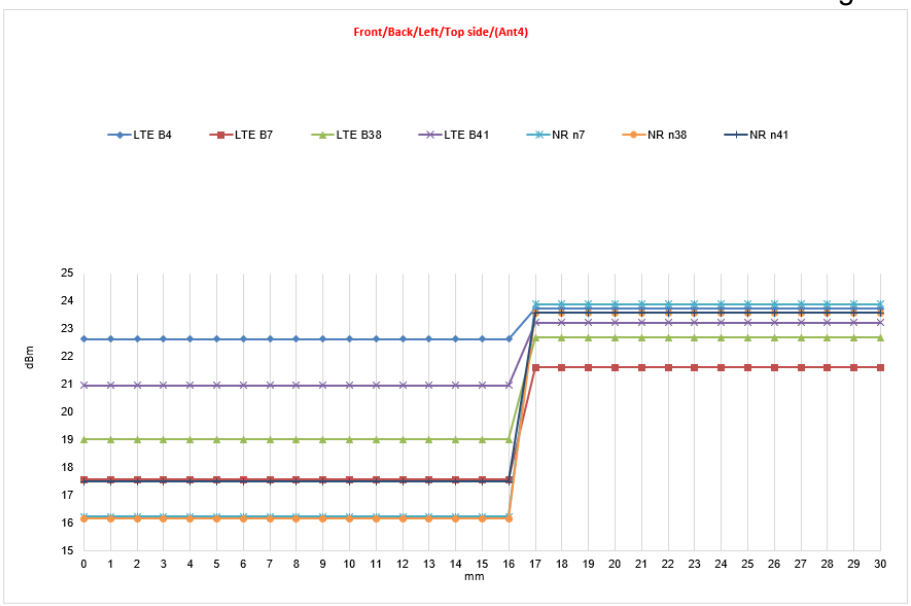


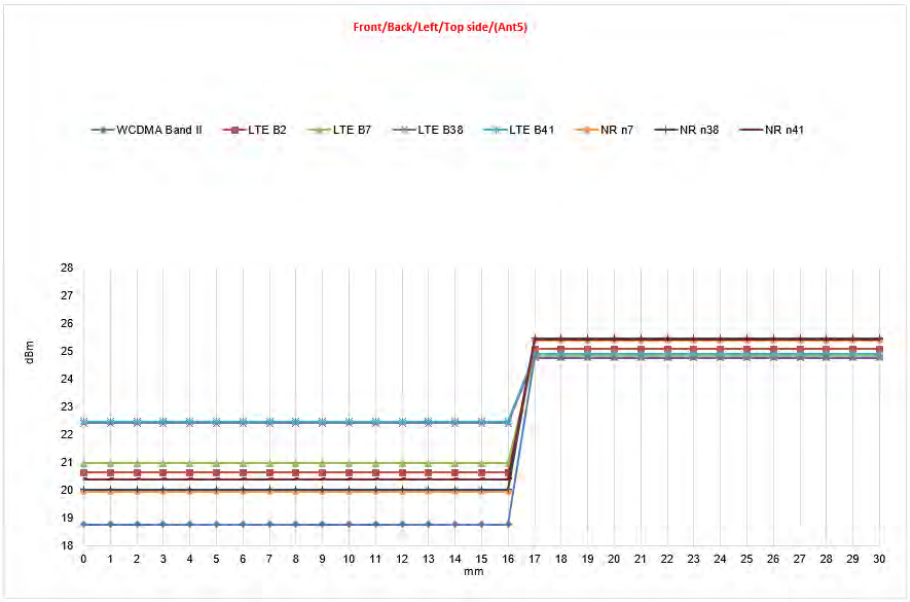


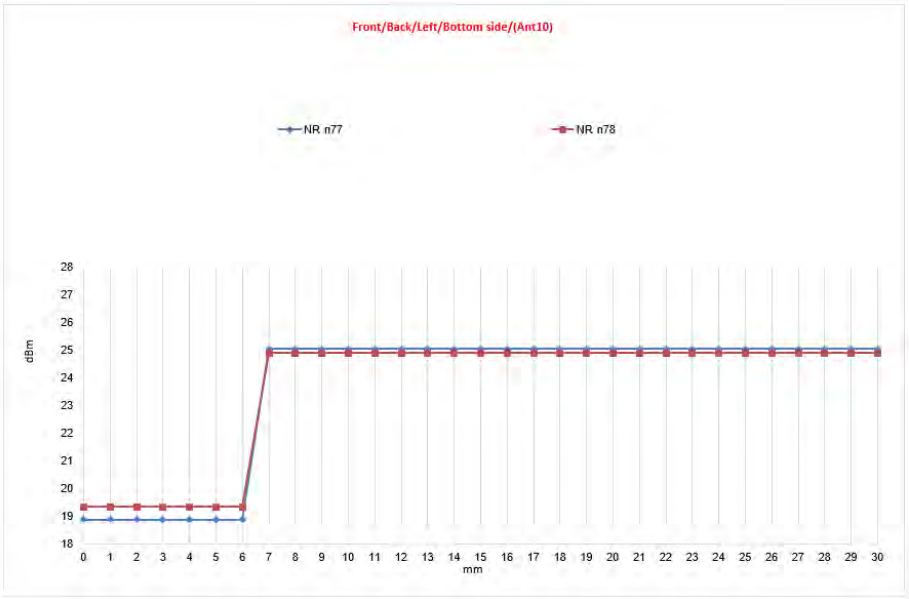
- DUT Moving Away(Release) from the Phantom

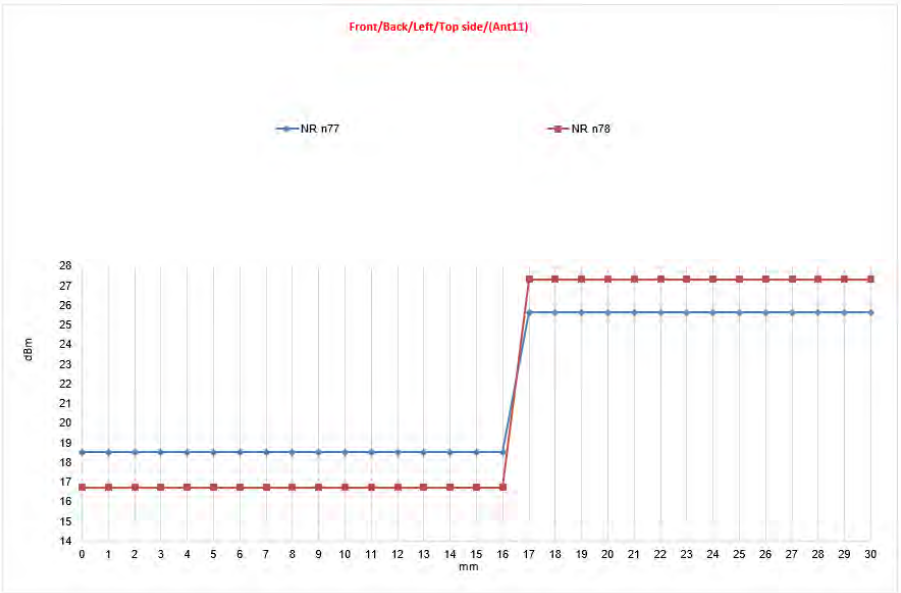












Proximity sensor coverage

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”.

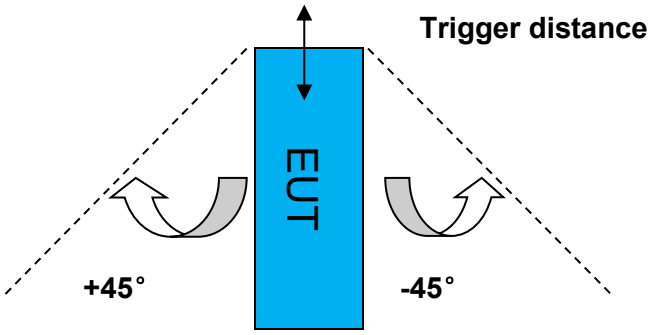
The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

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 ≤ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.

Flat Phantom



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status									
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant1/4/5/10/11	Left/Top side:16mm	Left/Top side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant0/3	Left/Bottom side:6mm	Left/Bottom side:6mm	on	on	on	on	on	on	on	on	on	on	on

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	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⁺% Pure Sodium Chloride Water: De-ionized, 16 MΩ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98⁺% Pure Sucrose HEC: Hydroxyethyl Cellulose		
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

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) 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.

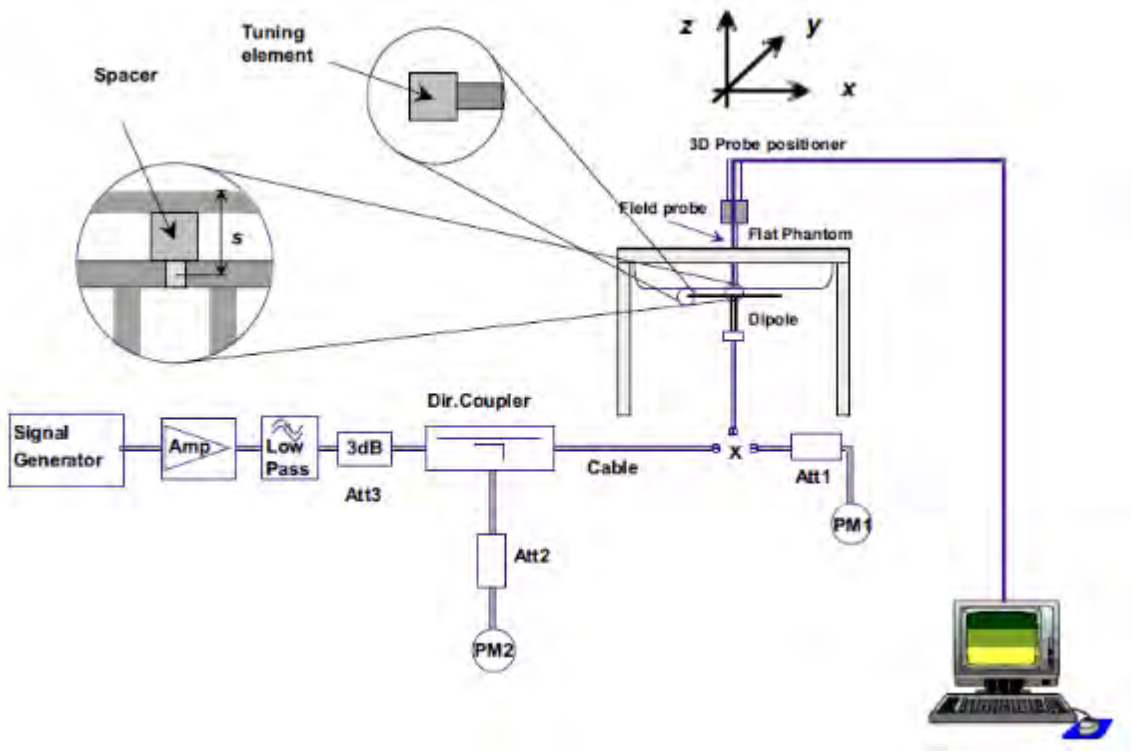
Tissue Type	Measured Frequency (MHz)	Target Tissue (±5%)		Measured Tissue		Liquid Temp.(°C)	Measured Date
		ε_r	σ(S/m)	ε_r	σ(S/m)		
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.036	0.891	22.3	2022-01-02
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.382	0.893	22.3	2021-12-19
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.641	0.907	22.4	2021-12-22
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.691	0.910	22.3	2021-12-27
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.015	1.358	22.3	2021-12-25
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.046	1.358	22.3	2021-12-26
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.366	1.346	22.3	2022-01-11
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.124	1.359	22.3	2022-01-13
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.061	1.401	22.3	2021-12-21
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.571	1.400	22.3	2021-12-23
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.461	1.795	22.3	2022-01-12
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.883	1.957	22.2	2021-12-23
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.816	1.915	22.3	2021-12-24
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.387	2.003	22.1	2021-12-27
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.071	1.942	22.4	2021-12-28
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.386	2.000	22.2	2021-12-29
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.474	1.983	22.3	2021-12-29
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.527	2.051	22.3	2021-12-30
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.755	2.022	22.3	2021-12-30
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.364	1.969	22.3	2022-01-05
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.465	1.966	22.3	2022-01-06
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.203	1.989	22.3	2022-01-09

2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.769	2.021	22.3	2022-01-10
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.081	1.969	22.3	2022-01-15
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.096	1.971	22.3	2022-01-16
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	37.507	2.847	22.3	2021-12-31
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	37.517	2.845	22.2	2022-01-04
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.234	2.993	22.1	2021-01-07
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.234	3.005	22.2	2021-01-08
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.159	3.002	22.5	2022-01-21
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	36.861	3.160	22.4	2022-01-05
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	36.941	3.198	22.3	2022-01-06
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	36.884	3.165	22.4	2022-01-10
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.612	3.225	22.2	2022-01-11
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.887	3.236	22.6	2022-01-21
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.976	3.462	22.1	2022-01-05
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	37.329	3.460	22.2	2022-01-06
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	36.000	4.763	22.1	2022-01-13
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	36.070	4.784	22.4	2022-01-14
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.048	5.153	22.2	2022-01-13
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.118	5.175	22.1	2022-01-14
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.684	5.325	22.3	2022-01-13
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.754	5.348	22.3	2022-01-14

Table 4： Measurement result of Tissue electric parameters

6.2 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

6.2.1 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 5Ω 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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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	2.18	1.42	8.72	5.68	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.3	2022-01-02
D835V2	Head	2.21	1.47	8.84	5.88	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.3	2021-12-19
D835V2	Head	2.30	1.50	9.20	6.00	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.4	2021-12-22
D835V2	Head	2.25	1.50	9.00	6.00	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.3	2021-12-27
D1750V2	Head	8.55	4.62	34.20	18.48	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.3	2021-12-25
D1750V2	Head	8.60	4.61	34.40	18.44	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.3	2021-12-26
D1750V2	Head	8.53	4.57	34.12	18.28	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.3	2022-01-11
D1750V2	Head	8.61	4.61	34.44	18.44	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.3	2022-01-13
D1900V2	Head	9.16	4.74	36.64	18.96	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.3	2021-12-21
D1900V2	Head	9.12	4.83	36.48	19.32	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.3	2021-12-23
D2450V2	Head	12.00	5.68	48.00	22.72	52.2 (46.98~57.42)	24.5 (22.05~26.95)	22.3	2022-01-12
D2600V2	Head	13.60	5.99	54.40	23.96	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.2	2021-12-23
D2600V2	Head	13.30	5.86	53.20	23.44	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2021-12-24
D2600V2	Head	13.90	6.13	55.60	24.52	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.1	2021-12-27
D2600V2	Head	13.50	5.94	54.00	23.76	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.4	2021-12-28
D2600V2	Head	13.90	6.12	55.60	24.48	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.2	2021-12-29
D2600V2	Head	14.00	6.04	56.00	24.16	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2021-12-29
D2600V2	Head	14.20	6.28	56.80	25.12	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2021-12-30
D2600V2	Head	14.40	6.33	57.60	25.32	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2021-12-30
D2600V2	Head	14.10	6.11	56.40	24.44	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-05
D2600V2	Head	14.00	6.16	56.00	24.64	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-06
D2600V2	Head	14.10	6.23	56.40	24.92	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-09
D2600V2	Head	14.23	6.15	56.92	24.60	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-10
D2600V2	Head	13.50	6.08	54.00	24.32	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-15
D2600V2	Head	13.70	6.09	54.80	24.36	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022-01-16

Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.5 GHz)	6.25	2.35	62.50	23.50	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.3	2021-12-31
	Head(3.5 GHz)	6.34	2.38	63.40	23.80	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.2	2022-01-04
	Head(3.5 GHz)	6.57	2.47	65.70	24.70	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.1	2021-01-07
	Head(3.5 GHz)	6.60	2.48	66.00	24.80	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.2	2021-01-08
	Head(3.5 GHz)	6.30	2.39	63.00	23.90	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.5	2022-01-21
D3700V2	Head(3.7 GHz)	6.21	2.27	62.10	22.70	68 (61.20~74.80)	24.6 (22.14~27.06)	22.4	2022-01-05
	Head(3.7 GHz)	6.29	2.30	62.90	23.00	68 (61.20~74.80)	24.6 (22.14~27.06)	22.3	2022-01-06
	Head(3.7 GHz)	6.22	2.27	62.20	22.70	68 (61.20~74.80)	24.6 (22.14~27.06)	22.4	2022-01-10
	Head(3.7 GHz)	6.34	2.32	63.40	23.20	68 (61.20~74.80)	24.6 (22.14~27.06)	22.2	2022-01-11
	Head(3.7 GHz)	6.36	2.32	63.60	23.20	68 (61.20~74.80)	24.6 (22.14~27.06)	22.6	2022-01-21
D3900V2	Head(3.9 GHz)	7.40	2.65	74.00	26.50	69.7 (62.73~76.67)	24 (21.60~26.40)	22.1	2022-01-05
	Head(3.9 GHz)	7.49	2.68	74.90	26.80	69.7 (62.73~76.67)	24 (21.60~26.40)	22.2	2022-01-06
D5GHzV2	Head(5.25 GHz)	7.09	2.02	70.90	20.20	77.1 (69.39~84.81)	22.2 (19.98~24.42)	22.1	2022-01-13
	Head(5.25 GHz)	7.12	2.02	71.20	20.20	77.1 (69.39~84.81)	22.2 (19.98~24.42)	22.4	2022-01-14
	Head(5.6 GHz)	7.97	2.25	79.70	22.50	80.2 (72.18~88.22)	23.1 (20.79~25.41)	22.2	2022-01-13
	Head(5.6 GHz)	8.01	2.26	80.10	22.60	80.2 (72.18~88.22)	23.1 (20.79~25.41)	22.1	2022-01-14
	Head(5.75 GHz)	8.48	2.41	84.80	24.10	77.4 (69.66~85.14)	22.1 (19.89~24.31)	22.3	2022-01-13
	Head(5.75 GHz)	8.51	2.42	85.10	24.20	77.4 (69.66~85.14)	22.1 (19.89~24.31)	22.3	2022-01-14

Table 5： SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

7 Test Configuration

7.1 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 ≤ ¼ 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 ≤ 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.

7.2 Operation Configurations

7.2.1 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

7.2.2 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 ≤ ¼ 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 ≤ 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(βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) 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.

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: △ACK, △NACK and △CQI= 8 Ahs = βhs/βc=30/15 βhs=30/15*βc
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, △ACK and △NACK= 8 (Ahs=30/15) with βhs=30/15*βc,and △CQI=
7 (Ahs=24/15) with βhs=24/15*βc.
Note3: CM=1 forβc/βd =12/15, βhs/βc=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

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.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_e (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	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	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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 β_c/β_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 β_c/β_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: β_{ed} 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	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		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

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

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/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH _Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	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.

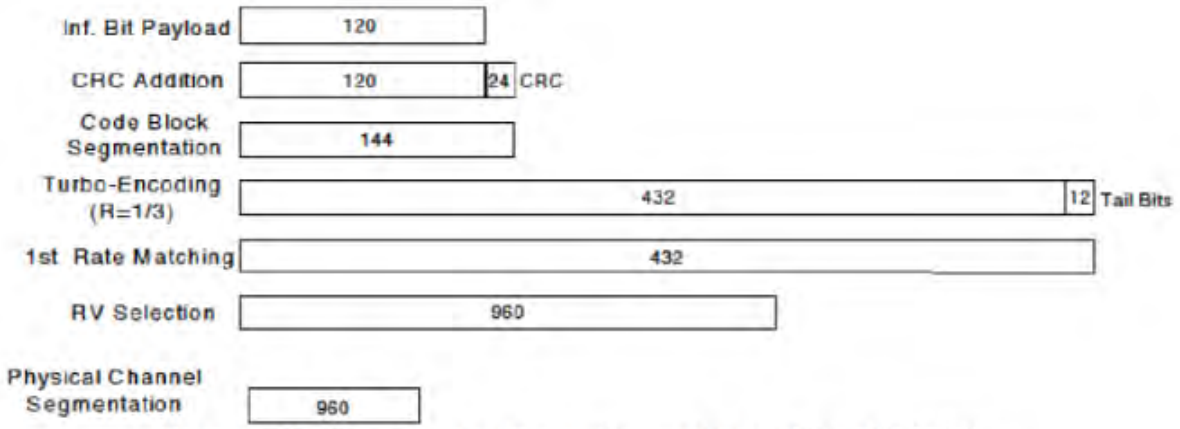


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	CM(dB)(2)	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

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

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 β_c/β_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.

d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

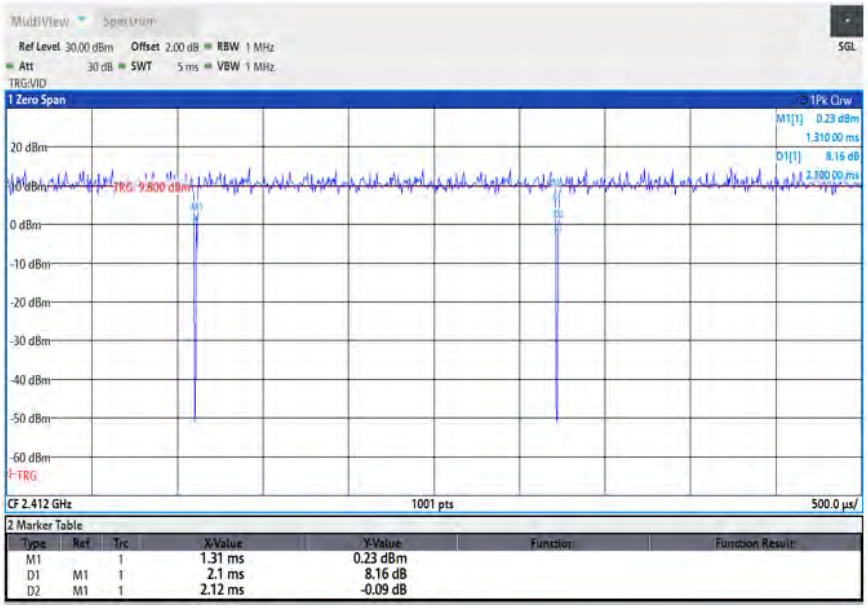
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

7.2.3 WiFi Test Configuration

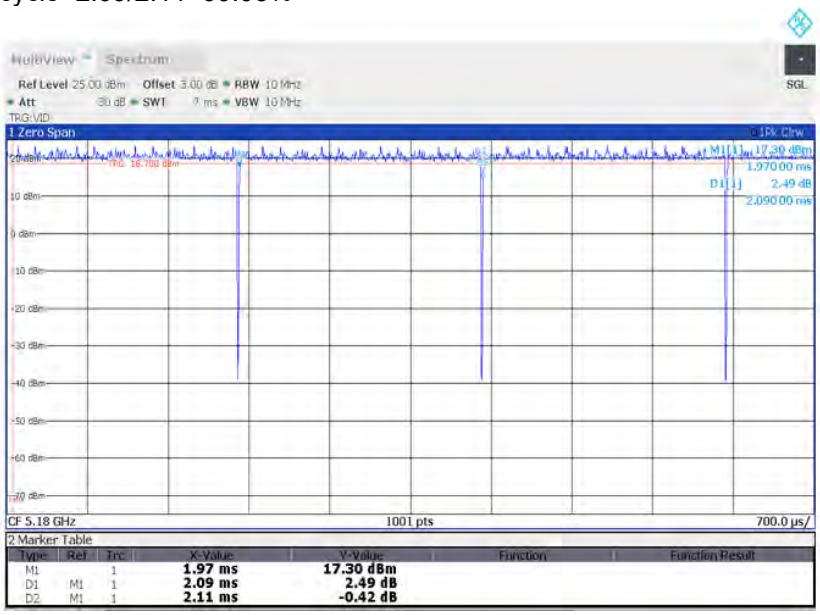
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

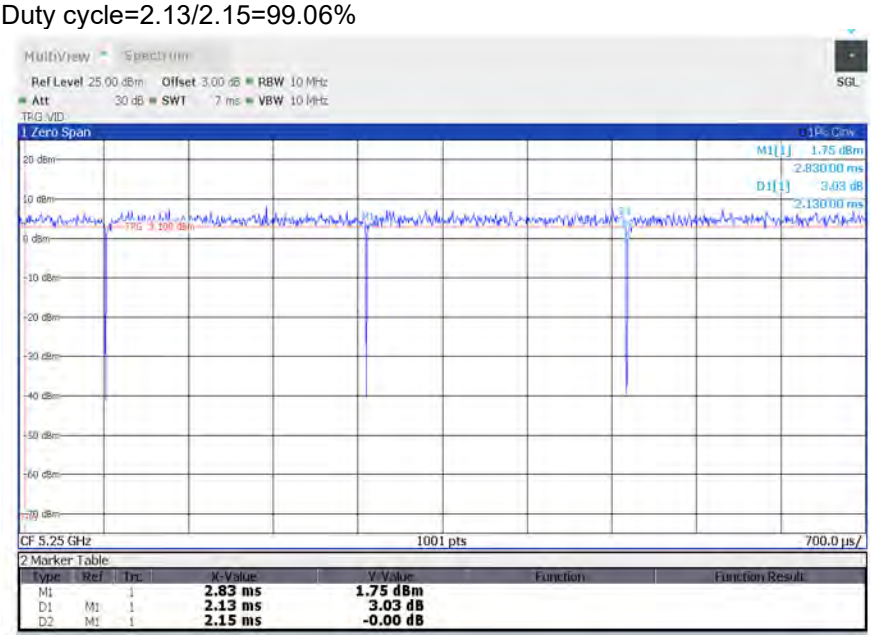
Wi-Fi 2.4GHz 802.11b MIMO1&2:
Duty cycle=2.10/2.12=99.00%



Wi-Fi 5GHz 802.11a MIMO1:
Duty cycle=2.09/2.11=99.05%



Wi-Fi 5GHz 802.11a MIMO2:
Duty cycle=2.13/2.15=99.06%



7.2.3.2 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.

7.2.3.3 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.

7.2.3.4 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 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.

a) 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”

7.2.3.5 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:

1）. 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.

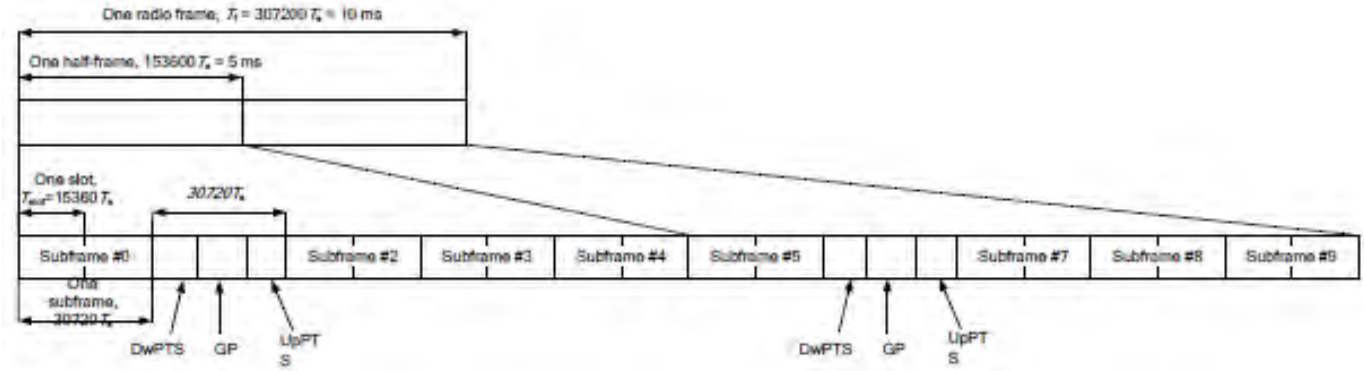
7.2.4 LTE Test Configuration

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:



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

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

Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
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 Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	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

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	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 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 > ½ 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.

7.2.5 NR Band Test Configuration

1. NR Band n5/n7/n38/n41/n77/n78 support SA mode and n5/n7/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2		LTE Band 5		LTE Band 7				LTE Band 38				LTE Band 41			
		Ant3	Ant5	Ant0	Ant1	Ant3	Ant4	Ant5	Ant6	Ant3	Ant4	Ant5	Ant6	Ant3	Ant4	Ant5	Ant6
n5	Ant0					√	√	√	√								
	Ant1					√	√	√	√								
n7	Ant3			√	√												
	Ant4			√	√												
	Ant5			√	√												
	Ant6			√	√												
n78	Ant1	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant6	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant10	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant11	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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

Band			n5	n7	n38	n41	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
Duty Cycle			100%	100%	100%	100%	100%	100%

Band	SCS	Bandwidth												
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
n5	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n77	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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 ≤ 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device

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.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
		≤ 0.5[2]	≤ 0.5[2]	0[2]
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	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 n40, n41, n77, n78 and n79. 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 n40, n41, n77, n78 and n79 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 n40, n41, n77, n78 and n79.

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.

8 Test Result

8.1 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 > ½ 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.

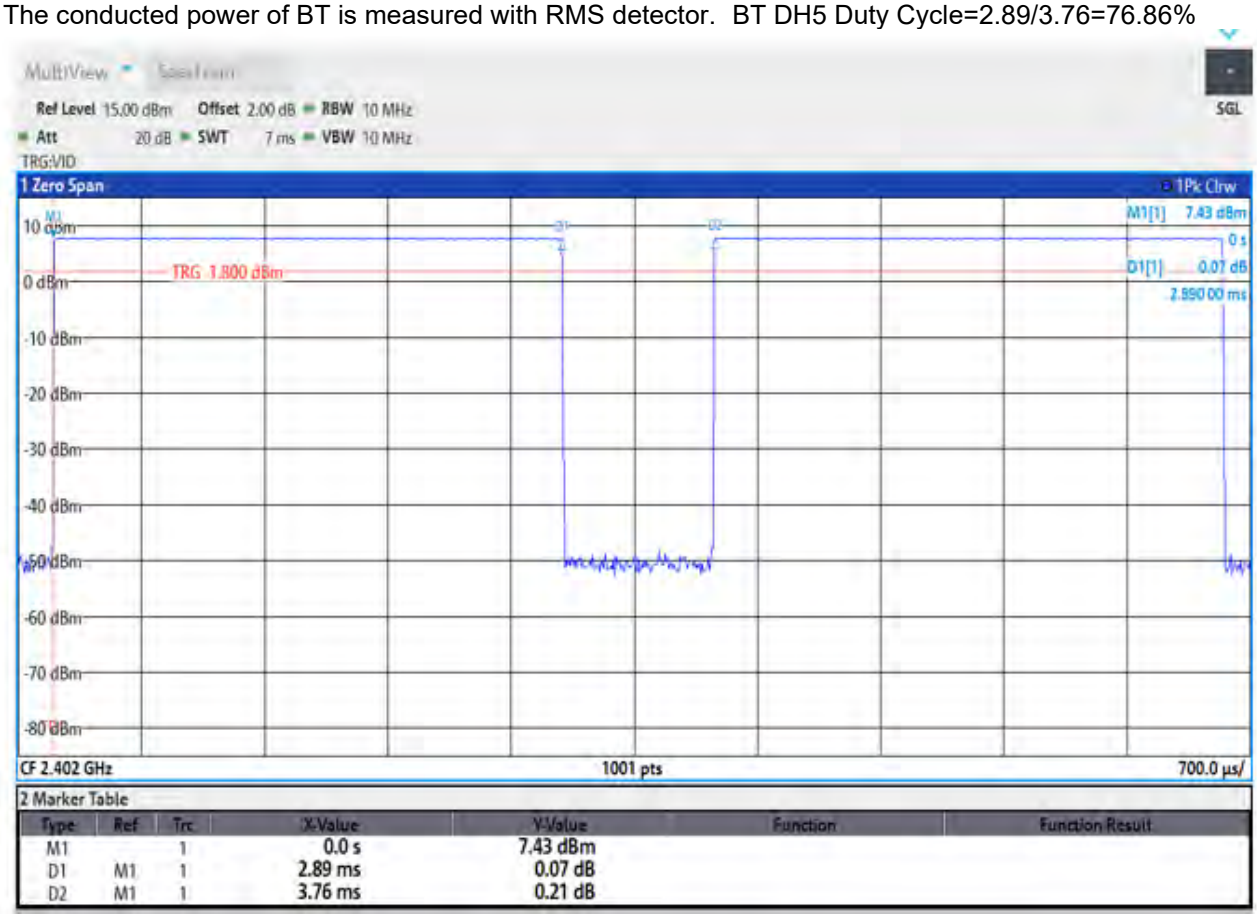
6）. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.

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.
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=2.89/3.76=76.86%



8.2 Measurement of SAR Data

Note:

1) The maximum Scaled SAR value is marked in bold. 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.

WiFi 2.4G:

1) 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.

8.2.1 SAR Result of GSM850

Ant 1Test 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	GPRS 4TS	190/836.6	1:2.075	0.312	-0.08	22.53	24.50	1.574	**0.491**	22.1
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.243	-0.04	22.53	24.50	1.574	0.382	22.1
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.274	0.10	22.53	24.50	1.574	0.431	22.1
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.272	0.06	22.53	24.50	1.574	0.428	22.1
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.159	0.04	25.69	27.50	1.517	0.241	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.169	-0.03	25.69	27.50	1.517	**0.256**	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.275	-0.06	22.53	24.50	1.574	0.433	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.310	0.02	22.53	24.50	1.574	0.488	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.344	0.01	22.53	24.50	1.574	**0.541**	22.1
Top side	GPRS 4TS	190/836.6	1:2.075	0.235	0.04	22.53	24.50	1.574	0.370	22.1
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 Test Data										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.220	0.03	26.87	28.00	1.297	**0.285**	22.1
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.099	0.13	26.87	28.00	1.297	0.129	22.1
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.163	0.01	26.87	28.00	1.297	0.211	22.1
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.084	0.05	26.87	28.00	1.297	0.109	22.1
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.174	-0.01	26.87	28.00	1.297	0.226	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.175	0.14	26.87	28.00	1.297	**0.227**	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.397	-0.01	25.79	27.00	1.321	0.525	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.394	0.01	25.79	27.00	1.321	0.521	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.476	0.03	25.79	27.00	1.321	**0.629**	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.216	-0.03	25.79	27.00	1.321	0.285	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.236	0.13	25.79	27.00	1.321	0.312	22.1

Table 11： SAR of GSM850 for Head and Body

8.2.2 SAR Result of GSM1900

Ant 5 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 Test Data										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.344	0.02	22.38	23.50	1.294	0.445	21.7
Left tilted	GPRS 4TS	661/1880	1:2.075	0.052	0.07	22.38	23.50	1.294	0.068	21.7
Right cheek	GPRS 4TS	661/1880	1:2.075	0.772	-0.13	22.38	23.50	1.294	**0.999**	21.7
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.700	0.07	22.05	23.50	1.396	0.977	21.7
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.744	0.17	22.33	23.50	1.309	0.974	21.7
Right tilted	GPRS 4TS	661/1880	1:2.075	0.118	0.07	22.38	23.50	1.294	0.153	21.7
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.113	0.05	22.38	23.50	1.340	0.151	21.7
Back side	GPRS 4TS	661/1880	1:2.075	0.124	0.02	22.38	23.50	1.340	**0.166**	21.7
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.045	0.09	22.38	23.50	1.294	0.058	21.7
Back side	GPRS 4TS	661/1880	1:2.075	0.114	0.07	22.38	23.50	1.294	0.148	21.7
Left side	GPRS 4TS	661/1880	1:2.075	0.498	-0.16	22.38	23.50	1.294	**0.645**	21.7
Top side	GPRS 4TS	661/1880	1:2.075	0.007	0.08	22.38	23.50	1.294	0.009	21.7
Ant 3 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 Test Data										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.059	-0.18	24.55	26.00	1.396	**0.082**	21.7
Left tilted	GPRS 4TS	661/1880	1:2.075	0.023	0.17	24.55	26.00	1.396	0.032	21.7
Right cheek	GPRS 4TS	661/1880	1:2.075	0.030	0.09	24.55	26.00	1.396	0.042	21.7
Right tilted	GPRS 4TS	661/1880	1:2.075	0.024	0.03	24.55	26.00	1.396	0.033	21.7
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.220	0.20	24.55	26.00	1.396	0.307	21.7
Back side	GPRS 4TS	661/1880	1:2.075	0.231	0.08	24.55	26.00	1.396	**0.323**	21.7
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.401	-0.09	24.55	26.00	1.396	0.560	21.7
Back side	GPRS 4TS	661/1880	1:2.075	0.521	0.01	24.55	26.00	1.396	0.728	21.7
Left side	GPRS 4TS	661/1880	1:2.075	0.100	0.13	24.55	26.00	1.396	0.139	21.7
Right side	GPRS 4TS	661/1880	1:2.075	0.398	-0.20	24.55	26.00	1.396	0.556	21.7
Bottom side	GPRS 4TS	661/1880	1:2.075	0.699	0.07	24.55	26.00	1.396	0.976	21.7
Bottom side	GPRS 4TS	512/1850.2	1:2.075	0.749	0.11	24.55	26.00	1.396	**1.046**	21.7
Bottom side	GPRS 4TS	810/1909.8	1:2.075	0.659	-0.12	24.55	26.00	1.396	0.920	21.7

Table 12： SAR of GSM1900 for Head and Body.

8.2.3 SAR Result of WCDMA Band II

Ant 5 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 Test Data										
Left cheek	RMC	9400/1880	1:1	0.448	0.04	18.25	19.70	1.396	0.626	21.3
Left tilted	RMC	9400/1880	1:1	0.060	0.12	18.25	19.70	1.396	0.083	21.3
Right cheek	RMC	9400/1880	1:1	0.680	0.09	18.25	19.70	1.396	**0.950**	21.3
Right cheek	RMC	9262/1852.4	1:1	0.642	0.05	18.23	19.70	1.403	0.901	21.3
Right cheek	RMC	9538/1907.6	1:1	0.466	0.01	18.18	19.70	1.419	0.661	21.3
Right tilted	RMC	9400/1880	1:1	0.113	0.04	18.25	19.70	1.396	0.158	21.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.163	0.18	24.82	25.70	1.225	0.200	21.3
Back side	RMC	9400/1880	1:1	0.420	0.00	24.82	25.70	1.225	**0.514**	21.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.120	-0.10	18.25	19.70	1.396	0.168	21.3
Back side	RMC	9400/1880	1:1	0.124	-0.08	18.25	19.70	1.396	0.173	21.3
Left side	RMC	9400/1880	1:1	0.255	0.15	18.25	19.70	1.396	**0.356**	21.3
Top side	RMC	9400/1880	1:1	0.004	0.12	18.25	19.70	1.396	0.006	21.3
Ant 3 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 Test Data										
Left cheek	RMC	9400/1880	1:1	0.176	0.10	24.69	25.50	1.205	**0.212**	21.3
Left tilted	RMC	9400/1880	1:1	0.043	-0.06	24.69	25.50	1.205	0.052	21.3
Right cheek	RMC	9400/1880	1:1	0.144	0.03	24.69	25.50	1.205	0.174	21.3
Right tilted	RMC	9400/1880	1:1	0.067	0.08	24.69	25.50	1.205	0.081	21.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.133	0.09	24.69	25.50	1.205	0.160	21.3
Back side	RMC	9400/1880	1:1	0.163	0.09	24.69	25.50	1.205	**0.196**	21.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.323	0.03	20.13	21.00	1.222	0.395	21.3
Back side	RMC	9400/1880	1:1	0.479	0.05	20.13	21.00	1.222	0.585	21.3
Left side	RMC	9400/1880	1:1	0.023	0.01	20.13	21.00	1.222	0.027	21.3
Right side	RMC	9400/1880	1:1	0.009	0.05	20.13	21.00	1.222	0.011	21.3
Bottom side	RMC	9400/1880	1:1	0.656	0.07	20.13	21.00	1.222	0.802	21.3
Bottom side	RMC	9262/1852.4	1:1	0.638	0.09	20.00	21.00	1.259	0.803	21.3
Bottom side	RMC	9538/1907.6	1:1	0.658	0.16	20.09	21.00	1.233	**0.811**	21.3

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

8.2.4 SAR Result of WCDMA Band IV

Ant 5 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 Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.222	-0.20	24.82	25.70	1.225	**0.272**	22.1
Left tilted	RMC	1412/1732.4	1:1	0.046	0.08	24.82	25.70	1.225	0.056	22.1
Right cheek	RMC	1412/1732.4	1:1	0.128	0.09	24.82	25.70	1.225	0.157	22.1
Right tilted	RMC	1412/1732.4	1:1	0.080	0.03	24.82	25.70	1.225	0.098	22.1
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.052	0.11	24.82	25.70	1.225	0.064	22.1
Back side	RMC	1412/1732.4	1:1	0.053	0.07	24.82	25.70	1.225	**0.065**	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.099	0.11	24.82	25.70	1.225	0.121	22.1
Back side	RMC	1412/1732.4	1:1	0.142	-0.20	24.82	25.70	1.225	0.174	22.1
Left side	RMC	1412/1732.4	1:1	0.270	0.06	24.82	25.70	1.225	**0.331**	22.1
Top side	RMC	1412/1732.4	1:1	0.007	0.20	24.82	25.70	1.225	0.008	22.1
Ant 3 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 Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.116	0.17	24.78	25.50	1.180	**0.137**	22.1
Left tilted	RMC	1412/1732.4	1:1	0.063	0.05	24.78	25.50	1.180	0.075	22.1
Right cheek	RMC	1412/1732.4	1:1	0.109	0.07	24.78	25.50	1.180	0.129	22.1
Right tilted	RMC	1412/1732.4	1:1	0.100	0.05	24.78	25.50	1.180	0.118	22.1
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.191	0.09	24.78	25.50	1.180	0.225	22.1
Back side	RMC	1412/1732.4	1:1	0.234	0.06	24.78	25.50	1.180	**0.276**	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.340	0.14	21.19	22.00	1.205	0.410	22.1
Back side	RMC	1412/1732.4	1:1	0.462	-0.05	21.19	22.00	1.205	0.557	22.1
Left side	RMC	1412/1732.4	1:1	0.093	0.14	21.19	22.00	1.205	0.112	22.1
Right side	RMC	1412/1732.4	1:1	0.153	0.06	21.19	22.00	1.205	0.184	22.1
Bottom side	RMC	1412/1732.4	1:1	0.791	0.14	21.19	22.00	1.205	0.953	22.1
Bottom side	RMC	1312/1712.4	1:1	0.741	0.07	21.16	22.00	1.213	0.899	22.1
Bottom side	RMC	1513/1752.6	1:1	0.822	0.09	21.08	22.00	1.236	**1.016**	22.1
Bottom side-Repeat	RMC	1513/1752.6	1:1	0.810	0.04	21.08	22.00	1.236	1.001	22.1

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Bottom side	1513/1752.6	0.822	0.81	1.015	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						

8.2.5 SAR Result of WCDMA Band V

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 Test Data										
Left cheek	RMC	4182/836.4	1:1	0.251	0.02	18.73	20.50	1.503	0.377	22.0
Left tilted	RMC	4182/836.4	1:1	0.182	0.01	18.73	20.50	1.503	0.274	22.0
Right cheek	RMC	4182/836.4	1:1	0.556	-0.05	18.73	20.50	1.503	0.836	22.0
Right cheek	RMC	4132/826.4	1:1	0.460	-0.01	18.64	20.50	1.535	0.706	22.0
Right cheek	RMC	4233/846.6	1:1	0.583	-0.05	18.61	20.50	1.545	**0.901**	22.0
Right tilted	RMC	4182/836.4	1:1	0.322	0.02	18.73	20.50	1.503	0.484	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.206	0.03	23.30	25.00	1.479	0.305	22.0
Back side	RMC	4182/836.4	1:1	0.220	0.05	23.30	25.00	1.479	**0.325**	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.172	0.07	18.73	20.50	1.503	0.284	22.0
Back side	RMC	4182/836.4	1:1	0.189	0.11	18.73	20.50	1.503	0.298	22.0
Left side	RMC	4182/836.4	1:1	0.198	0.01	18.73	20.50	1.503	**0.298**	22.0
Top side	RMC	4182/836.4	1:1	0.126	0.16	18.73	20.50	1.503	0.189	22.0
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 Test Data										
Left cheek	RMC	4182/836.4	1:1	0.253	-0.09	24.27	25.00	1.183	**0.299**	22.0
Left tilted	RMC	4182/836.4	1:1	0.140	-0.15	24.27	25.00	1.183	0.166	22.0
Right cheek	RMC	4182/836.4	1:1	0.238	0.08	24.27	25.00	1.183	0.282	22.0
Right tilted	RMC	4182/836.4	1:1	0.111	-0.03	24.27	25.00	1.183	0.131	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.231	0.01	24.27	25.00	1.183	0.273	22.0
Back side	RMC	4182/836.4	1:1	0.232	0.07	24.27	25.00	1.183	**0.274**	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.490	-0.03	24.27	25.00	1.183	**0.580**	22.0
Back side	RMC	4182/836.4	1:1	0.455	-0.14	24.27	25.00	1.183	0.538	22.0
Left side	RMC	4182/836.4	1:1	0.470	0.03	24.27	25.00	1.183	0.556	22.0
Right side	RMC	4182/836.4	1:1	0.184	-0.02	24.27	25.00	1.183	0.218	22.0
Bottom side	RMC	4182/836.4	1:1	0.259	-0.02	24.27	25.00	1.183	0.306	22.0

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

8.2.6 SAR Result of LTE Band 2

Ant 5 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	18900/1880	1:1	0.172	0.06	15.13	15.70	1.140	0.196	22.1
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.030	0.04	15.13	15.70	1.140	0.034	22.1
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.402	0.070	15.13	15.70	1.140	0.458	22.1
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.057	0.09	15.13	15.70	1.140	0.065	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.170	0.08	14.86	15.70	1.213	0.206	22.1
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.029	0.05	14.86	15.70	1.213	0.036	22.1
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.414	0.05	14.86	15.70	1.213	**0.502**	22.1
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.057	0.07	14.86	15.70	1.213	0.069	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_50	18900/1880	1:1	0.329	-0.01	25.05	25.70	1.161	**0.382**	22.1
Back side	20	QPSK 1_50	18900/1880	1:1	0.159	0.19	25.05	25.70	1.161	0.185	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18700/1860	1:1	0.299	0.00	24.58	24.70	1.028	0.307	22.1
Back side	20	QPSK 50_0	18700/1860	1:1	0.161	-0.20	24.58	24.70	1.028	0.166	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	19100/1900	1:1	0.094	0.01	15.13	15.70	1.140	0.107	22.1
Back side	20	QPSK 1_0	19100/1900	1:1	0.103	0.05	15.13	15.70	1.140	0.117	22.1
Left side	20	QPSK 1_0	19100/1900	1:1	0.234	0.03	15.13	15.70	1.140	0.267	22.1
Top side	20	QPSK 1_0	19100/1900	1:1	0.007	0.11	15.13	15.70	1.140	0.008	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.099	0.07	14.86	15.70	1.213	0.120	22.1
Back side	20	QPSK 50_0	18900/1880	1:1	0.115	0.01	14.86	15.70	1.213	0.140	22.1
Left side	20	QPSK 50_0	18900/1880	1:1	0.229	0.17	14.86	15.70	1.213	**0.278**	22.1
Top side	20	QPSK 50_0	18900/1880	1:1	0.007	0.06	14.86	15.70	1.213	0.008	22.1
Ant 3 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_50	19100/1900	1:1	0.181	0.08	25.03	25.70	1.167	**0.211**	22.1
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.048	0.02	25.03	25.70	1.167	0.056	22.1
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.131	0.05	25.03	25.70	1.167	0.153	22.1
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.069	0.09	25.03	25.70	1.167	0.080	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.150	0.15	24.44	24.70	1.062	0.159	22.1
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.047	0.08	24.44	24.70	1.062	0.050	22.1
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.115	0.03	24.44	24.70	1.062	0.122	22.1
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.054	0.09	24.44	24.70	1.062	0.058	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 50_50	19100/1900	1:1	0.165	0.08	25.03	25.70	1.167	0.193	22.1
Back side	20	QPSK 50_50	19100/1900	1:1	0.188	-0.08	25.03	25.70	1.167	**0.219**	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	19100/1900	1:1	0.161	0.02	24.44	24.70	1.062	0.171	22.1
Back side	20	QPSK 50_50	19100/1900	1:1	0.186	-0.08	24.44	24.70	1.062	0.197	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18700/1860	1:1	0.116	0.02	15.50	16.20	1.175	0.136	22.1
Back side	20	QPSK 1_0	18700/1860	1:1	0.154	0.04	15.50	16.20	1.175	0.181	22.1
Left side	20	QPSK 1_0	18700/1860	1:1	0.026	0.16	15.50	16.20	1.175	0.030	22.1
Rightt side	20	QPSK 1_0	18700/1860	1:1	0.086	0.05	15.50	16.20	1.175	0.100	22.1
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.228	-0.07	15.50	16.20	1.175	0.268	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	18700/1860	1:1	0.116	0.09	15.27	16.20	1.239	0.144	22.1
Back side	20	QPSK 50_25	18700/1860	1:1	0.153	0.01	15.27	16.20	1.239	0.190	22.1
Left side	20	QPSK 50_25	18700/1860	1:1	0.027	0.03	15.27	16.20	1.239	0.033	22.1
Rightt side	20	QPSK 50_25	18700/1860	1:1	0.089	0.08	15.27	16.20	1.239	0.110	22.1
Bottom side	20	QPSK 50_25	18700/1860	1:1	0.232	0.17	15.27	16.20	1.239	**0.287**	22.1

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

8.2.1 SAR Result of LTE Band 4

Ant 5 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	20300/1745	1:1	0.268	0.14	24.95	25.70	1.189	0.319	22
Left tilted	20	QPSK 1_0	20300/1745	1:1	0.056	-0.12	24.95	25.70	1.189	0.067	22
Right cheek	20	QPSK 1_0	20300/1745	1:1	0.530	-0.17	24.95	25.70	1.189	**0.630**	22
Right tilted	20	QPSK 1_0	20300/1745	1:1	0.101	-0.18	24.95	25.70	1.189	0.120	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_25	20300/1745	1:1	0.257	0.03	24.45	24.70	1.059	0.272	22
Left tilted	20	QPSK 50_25	20300/1745	1:1	0.054	0.05	24.45	24.70	1.059	0.057	22
Right cheek	20	QPSK 50_25	20300/1745	1:1	0.501	-0.15	24.45	24.70	1.059	0.531	22
Right tilted	20	QPSK 50_25	20300/1745	1:1	0.105	-0.14	24.45	24.70	1.059	0.111	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	20300/1745	1:1	0.039	0.16	24.95	25.70	1.189	0.047	22
Back side	20	QPSK 1_0	20300/1745	1:1	0.054	0.14	24.95	25.70	1.189	**0.064**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	20300/1745	1:1	0.039	0.19	24.45	24.70	1.059	0.041	22
Back side	20	QPSK 50_25	20300/1745	1:1	0.052	0.09	24.45	24.70	1.059	0.055	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	20300/1745	1:1	0.123	0.13	24.95	25.70	1.189	0.146	22
Back side	20	QPSK 1_0	20300/1745	1:1	0.154	0.05	24.95	25.70	1.189	0.183	22
Left side	20	QPSK 1_0	20300/1745	1:1	0.389	0.04	24.95	25.70	1.189	**0.462**	22
Top side	20	QPSK 1_0	20300/1745	1:1	0.017	0.18	24.95	25.70	1.189	0.020	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	20300/1745	1:1	0.123	0.01	24.45	24.70	1.059	0.130	22
Back side	20	QPSK 50_25	20300/1745	1:1	0.147	0.09	24.45	24.70	1.059	0.156	22
Left side	20	QPSK 50_25	20300/1745	1:1	0.378	0.08	24.45	24.70	1.059	0.400	22
Top side	20	QPSK 50_25	20300/1745	1:1	0.012	0.14	24.45	24.70	1.059	0.013	22
Ant 4 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	20050/1720	1:1	0.367	0.11	15.00	16.50	1.413	0.518	22
Left tilted	20	QPSK 1_0	20050/1720	1:1	0.513	0.02	15.00	16.50	1.413	0.725	22
Right cheek	20	QPSK 1_0	20050/1720	1:1	0.565	0.00	15.00	16.50	1.413	0.798	22
Right tilted	20	QPSK 1_0	20050/1720	1:1	0.588	-0.01	15.00	16.50	1.413	0.831	22
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.659	0.12	14.98	16.50	1.419	0.935	22
Right tilted	20	QPSK 1_0	20300/1745	1:1	0.698	0.02	14.89	16.50	1.449	**1.011**	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_25	20050/1720	1:1	0.371	0.06	14.90	16.50	1.445	0.536	22
Left tilted	20	QPSK 50_25	20050/1720	1:1	0.525	0.04	14.90	16.50	1.445	0.759	22
Right cheek	20	QPSK 50_25	20050/1720	1:1	0.603	0.04	14.90	16.50	1.445	0.872	22
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.659	-0.02	14.87	16.50	1.455	0.959	22
Right cheek	20	QPSK 50_0	20300/1745	1:1	0.657	0.00	14.82	16.50	1.472	0.967	22
Right tilted	20	QPSK 50_25	20050/1720	1:1	0.668	-0.03	14.90	16.50	1.445	0.966	22
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.638	-0.03	14.87	16.50	1.455	0.929	22
Right tilted	20	QPSK 50_0	20300/1745	1:1	0.620	0.04	14.82	16.50	1.472	0.913	22
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	20050/1720	1:1	0.644	-0.04	14.88	16.50	1.452	0.935	22
Right tilted	20	QPSK 100_0	20050/1720	1:1	0.658	-0.01	14.88	16.50	1.452	0.955	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.352	0.13	23.67	25.00	1.358	0.478	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.519	0.12	23.67	25.00	1.358	**0.705**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.335	0.05	23.19	24.00	1.205	0.404	22
Back side	20	QPSK 50_25	20050/1720	1:1	0.488	-0.12	23.19	24.00	1.205	0.588	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.233	0.02	15.00	16.50	1.413	0.329	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.307	0.20	15.00	16.50	1.413	0.434	22
Left side	20	QPSK 1_0	20050/1720	1:1	0.074	0.05	15.00	16.50	1.413	0.105	22

Rightt side	20	QPSK 1_0	20050/1720	1:1	0.032	0.08	15.00	16.50	1.413	0.045	22
Top side	20	QPSK 1_0	20050/1720	1:1	0.450	0.04	15.00	16.50	1.413	0.636	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.245	0.01	14.90	16.50	1.445	0.354	22
Back side	20	QPSK 50_25	20050/1720	1:1	0.342	0.18	14.90	16.50	1.445	0.494	22
Left side	20	QPSK 50_25	20050/1720	1:1	0.075	0.04	14.90	16.50	1.445	0.108	22
Rightt side	20	QPSK 50_25	20050/1720	1:1	0.034	0.08	14.90	16.50	1.445	0.049	22
Top side	20	QPSK 50_25	20050/1720	1:1	0.482	0.02	14.90	16.50	1.445	**0.697**	22

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)
Product specific 10g SAR Test data(Separate 0mm 1RB) sensor on											
Front side	20	QPSK 1_0	20050/1720	1:1	1.510	0.08	22.61	23.00	1.094	1.652	22
Back side	20	QPSK 1_0	20050/1720	1:1	1.390	-0.02	22.61	23.00	1.094	1.521	22
Top side	20	QPSK 1_0	20050/1720	1:1	2.430	0.01	22.61	23.00	1.094	**2.658**	22
Top side	20	QPSK 1_0	20300/1745	1:1	2.340	0.04	22.59	23.00	1.099	2.572	22
Top side	20	QPSK 1_0	20175/1732.5	1:1	2.300	0.03	22.50	23.00	1.122	2.581	22
Product specific 10g SAR Test data(Separate 0mm 50RB) sensor on											
Front side	20	QPSK 50_25	20050/1720	1:1	1.510	-0.02	22.59	23.00	1.099	1.659	22
Back side	20	QPSK 50_25	20050/1720	1:1	1.460	-0.03	22.59	23.00	1.099	1.605	22
Top side	20	QPSK 50_25	20050/1720	1:1	2.370	0.01	22.59	23.00	1.099	2.605	22
Top side	20	QPSK 50_25	20300/1745	1:1	2.340	0.01	22.59	23.00	1.099	2.572	22
Top side	20	QPSK 50_25	20175/1732.5	1:1	2.220	0.06	22.59	23.00	1.099	2.440	22
Product specific 10g SAR Test data(Separate 0mm 100RB) sensor on											
Top side	20	QPSK 100_0	20050/1720	1:1	2.230	0.06	22.47	23.00	1.130	2.519	22
Product specific 10g SAR Test data(Separate 15mm) Sensor off											
Front side	20	QPSK 1_0	20050/1720	1:1	0.186	0.13	23.67	25.00	1.358	0.253	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.314	0.12	23.67	25.00	1.358	0.427	22
Top side	20	QPSK 1_0	20050/1720	1:1	0.453	0.02	23.67	25.00	1.130	0.512	22

Ant 3 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	20300/1745	1:1	0.146	0.06	24.97	25.70	1.183	**0.173**	22
Left tilted	20	QPSK 1_0	20300/1745	1:1	0.047	0.01	24.97	25.70	1.183	0.056	22
Right cheek	20	QPSK 1_0	20300/1745	1:1	0.110	0.08	24.97	25.70	1.183	0.130	22
Right tilted	20	QPSK 1_0	20300/1745	1:1	0.068	0.06	24.97	25.70	1.183	0.081	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_25	20300/1745	1:1	0.123	0.19	24.44	24.70	1.062	0.131	22
Left tilted	20	QPSK 50_25	20300/1745	1:1	0.036	0.09	24.44	24.70	1.062	0.038	22
Right cheek	20	QPSK 50_25	20300/1745	1:1	0.096	0.07	24.44	24.70	1.062	0.102	22
Right tilted	20	QPSK 50_25	20300/1745	1:1	0.059	0.02	24.44	24.70	1.062	0.063	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	20300/1745	1:1	0.039	0.16	24.97	25.70	1.183	0.046	22
Back side	20	QPSK 1_0	20300/1745	1:1	0.054	0.14	24.97	25.70	1.183	**0.063**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	20300/1745	1:1	0.039	0.19	24.44	24.70	1.062	0.042	22
Back side	20	QPSK 50_25	20300/1745	1:1	0.052	0.09	24.44	24.70	1.062	0.055	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.339	0.15	21.04	21.70	1.164	0.395	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.423	0.17	21.04	21.70	1.164	0.492	22
Left side	20	QPSK 1_0	20050/1720	1:1	0.080	0.14	21.04	21.70	1.164	0.094	22
Rightt side	20	QPSK 1_0	20050/1720	1:1	0.167	0.06	21.04	21.70	1.164	0.194	22
Bottom side	20	QPSK 1_0	20050/1720	1:1	0.744	0.13	21.04	21.70	1.164	0.866	22
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.79	0.15	20.92	21.70	1.197	0.939	22
Bottom side	20	QPSK 1_0	20300/1745	1:1	0.809	0.11	21.03	21.70	1.167	0.944	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.348	0.20	20.96	21.70	1.186	0.413	22
Back side	20	QPSK 50_25	20050/1720	1:1	0.441	0.09	20.96	21.70	1.186	0.523	22
Left side	20	QPSK 50_25	20050/1720	1:1	0.083	0.15	20.96	21.70	1.186	0.098	22
Rightt side	20	QPSK 50_25	20050/1720	1:1	0.185	0.08	20.96	21.70	1.186	0.219	22
Bottom side	20	QPSK 50_25	20050/1720	1:1	0.782	0.14	20.96	21.70	1.186	0.927	22
Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.789	0.07	20.85	21.70	1.216	0.960	22
Bottom side	20	QPSK 50_0	20300/1745	1:1	0.813	0.13	20.87	21.70	1.211	**0.984**	22
Bottom side-Repeat	20	QPSK 50_0	20300/1745	1:1	0.795	0.01	20.87	21.70	1.211	0.962	22

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Hotspot Test data(Separate 10mm 100%RB)											
Bottom side	20	QPSK 100_0	20050/1720	1:1	0.779	0.06	20.94	21.70	1.191	0.928	22
Ant 6 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	20050/1720	1:1	0.274	-0.03	19.80	21.00	1.318	0.361	22
Left tilted	20	QPSK 1_0	20050/1720	1:1	0.099	0.09	19.80	21.00	1.318	0.130	22
Right cheek	20	QPSK 1_0	20050/1720	1:1	0.601	0.05	19.80	21.00	1.318	0.792	22
Right tilted	20	QPSK 1_0	20050/1720	1:1	0.096	0.08	19.80	21.00	1.318	0.127	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_25	20050/1720	1:1	0.274	0.05	19.77	21.00	1.327	0.364	22
Left tilted	20	QPSK 50_25	20050/1720	1:1	0.104	0.15	19.77	21.00	1.327	0.138	22
Right cheek	20	QPSK 50_25	20050/1720	1:1	0.620	0.03	19.77	21.00	1.327	0.823	22
Right cheek	20	QPSK 50_0	20300/1745	1:1	0.646	0.03	19.77	21.00	1.327	**0.857**	22
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.634	0.04	19.71	21.00	1.346	0.853	22
Right tilted	20	QPSK 50_25	20050/1720	1:1	0.104	0.20	19.77	21.00	1.327	0.138	22
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	20050/1720	1:1	0.636	-0.20	19.75	21.00	1.334	0.848	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.257	-0.03	22.96	24.00	1.271	0.327	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.357	0.20	22.96	24.00	1.271	**0.454**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.247	0.05	22.42	23.00	1.143	0.282	22
Back side	20	QPSK 50_25	20050/1720	1:1	0.343	0.01	22.42	23.00	1.143	0.392	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	20050/1720	1:1	0.391	0.16	19.80	21.00	1.318	0.515	22
Back side	20	QPSK 1_0	20050/1720	1:1	0.531	0.13	19.80	21.00	1.318	0.700	22
Rightt side	20	QPSK 1_0	20050/1720	1:1	0.496	0.04	19.80	21.00	1.318	0.654	22
Bottom side	20	QPSK 1_0	20050/1720	1:1	0.043	0.08	19.80	21.00	1.318	0.056	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	20050/1720	1:1	0.398	0.11	19.77	21.00	1.327	0.528	22
Back side	20	QPSK 50_25	20050/1720	1:1	0.509	0.05	19.77	21.00	1.327	0.676	22
Rightt side	20	QPSK 50_25	20050/1720	1:1	0.600	0.15	19.77	21.00	1.327	**0.796**	22
Bottom side	20	QPSK 50_25	20050/1720	1:1	0.046	0.08	19.77	21.00	1.327	0.061	22

Table 17：SAR of LTE Band 4 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)**
Bottom side	20300/1745	0.813	0.795	1.023	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						

8.2.2 SAR Result of LTE Band 5

Ant 1 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	10	QPSK 1_0	20450/829	1:1	0.200	0.03	16.46	18.00	1.426	0.285	22.3
Left tilted	10	QPSK 1_0	20450/829	1:1	0.128	0.04	16.46	18.00	1.426	0.182	22.3
Right cheek	10	QPSK 1_0	20450/829	1:1	0.312	0.02	16.46	18.00	1.426	**0.445**	22.3
Right tilted	10	QPSK 1_0	20450/829	1:1	0.273	0.02	16.46	18.00	1.426	0.389	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_13	20450/829	1:1	0.189	0.02	16.44	18.00	1.432	0.271	22.3
Left tilted	10	QPSK 25_13	20450/829	1:1	0.127	0.09	16.44	18.00	1.432	0.182	22.3
Right cheek	10	QPSK 25_13	20450/829	1:1	0.271	-0.08	16.44	18.00	1.432	0.388	22.3
Right tilted	10	QPSK 25_13	20450/829	1:1	0.257	0.02	16.44	18.00	1.432	0.368	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.183	0.04	23.42	25.00	1.439	0.263	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.206	-0.06	23.42	25.00	1.439	**0.296**	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.172	0.04	23.04	24.00	1.247	0.215	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.196	0.01	23.04	24.00	1.247	0.244	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	20450/829	1:1	0.113	0.14	16.46	18.00	1.426	0.161	22.3
Back side	10	QPSK 1_0	20450/829	1:1	0.115	0.09	16.46	18.00	1.426	**0.164**	22.3
Left side	10	QPSK 1_0	20450/829	1:1	0.112	0.07	16.46	18.00	1.426	0.160	22.3
Top side	10	QPSK 1_0	20450/829	1:1	0.003	0.07	16.46	18.00	1.426	0.004	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_13	20450/829	1:1	0.108	0.20	16.44	18.00	1.432	0.155	22.3
Back side	10	QPSK 25_13	20450/829	1:1	0.109	0.07	16.44	18.00	1.432	0.156	22.3
Left side	10	QPSK 25_13	20450/829	1:1	0.114	0.06	16.44	18.00	1.432	0.163	22.3
Top side	10	QPSK 25_13	20450/829	1:1	0.003	0.08	16.44	18.00	1.432	0.004	22.3
Ant 0 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	10	QPSK 1_0	20525/836.5	1:1	0.228	0.01	24.28	25.70	1.387	**0.316**	22.3
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.133	0.14	24.28	25.70	1.387	0.184	22.3
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.182	-0.04	24.28	25.70	1.387	0.252	22.3
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.129	0.09	24.28	25.70	1.387	0.179	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.234	-0.07	23.87	24.70	1.211	0.283	22.3
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.133	0.03	23.87	24.70	1.211	0.161	22.3
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.185	0.16	23.87	24.70	1.211	0.224	22.3
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.126	0.03	23.87	24.70	1.211	0.153	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.220	0.02	24.28	25.70	1.387	**0.305**	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.191	0.06	24.28	25.70	1.387	0.265	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.194	-0.12	23.87	24.70	1.211	0.235	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.198	0.04	23.87	24.70	1.211	0.240	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.341	-0.02	23.05	23.70	1.161	0.396	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.365	0.08	23.05	23.70	1.161	0.424	22.3
Left side	10	QPSK 1_0	20525/836.5	1:1	0.355	-0.03	23.05	23.70	1.161	0.412	22.3
Rightt side	10	QPSK 1_0	20525/836.5	1:1	0.131	0.00	23.05	23.70	1.161	0.152	22.3
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.199	0.11	23.05	23.70	1.161	0.231	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.377	-0.01	22.80	23.70	1.230	**0.464**	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.376	0.07	22.80	23.70	1.230	0.463	22.3
Left side	10	QPSK 25_0	20525/836.5	1:1	0.333	0.06	22.80	23.70	1.230	0.410	22.3
Rightt side	10	QPSK 25_0	20525/836.5	1:1	0.130	-0.02	22.80	23.70	1.230	0.160	22.3
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.206	0.06	22.80	23.70	1.230	0.253	22.3

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

8.2.3 SAR Result of LTE Band 7

Ant 5 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_99	21350/2560	1:1	0.147	-0.13	18.06	18.20	1.033	0.152	21.1
Left tilted	20	QPSK 1_99	21350/2560	1:1	0.035	0.12	18.06	18.20	1.033	0.036	21.1
Right cheek	20	QPSK 1_99	21350/2560	1:1	0.270	-0.14	18.06	18.20	1.033	0.279	21.1
Right tilted	20	QPSK 1_99	21350/2560	1:1	0.184	-0.20	18.06	18.20	1.033	0.190	21.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.339	0.00	17.96	18.20	1.057	0.358	21.1
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.060	-0.14	17.96	18.20	1.057	0.063	21.1
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.365	0.00	17.96	18.20	1.057	**0.386**	21.1
Right cheek	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.351	0.00	17.81	18.20	1.094	0.384	21.1
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.094	0.03	17.96	18.20	1.057	0.099	21.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	21350/2560	1:1	0.134	0.04	24.94	25.70	1.191	0.160	21.1
Back side	20	QPSK 1_99	21350/2560	1:1	0.485	-0.19	24.94	25.70	1.191	**0.578**	21.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.468	-0.01	24.88	25.70	1.208	0.565	21.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	21350/2560	1:1	0.139	0.08	24.44	24.70	1.062	0.148	21.1
Back side	20	QPSK 50_50	21350/2560	1:1	0.422	-0.19	24.44	24.70	1.062	0.448	21.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	21350/2560	1:1	0.095	0.00	21.03	21.20	1.040	0.099	21.1
Back side	20	QPSK 1_99	21350/2560	1:1	0.208	-0.08	21.03	21.20	1.040	**0.216**	21.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.201	-0.01	21.00	21.20	1.047	0.210	21.1
Left side	20	QPSK 1_99	21350/2560	1:1	0.146	-0.10	21.03	21.20	1.040	0.152	21.1
Top side	20	QPSK 1_99	21350/2560	1:1	0.153	0.20	21.03	21.20	1.040	0.159	21.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	21350/2560	1:1	0.092	-0.05	20.81	21.20	1.094	0.101	21.1
Back side	20	QPSK 50_50	21350/2560	1:1	0.189	0.18	20.81	21.20	1.094	0.207	21.1
Left side	20	QPSK 50_50	21350/2560	1:1	0.163	0.10	20.81	21.20	1.094	0.178	21.1
Top side	20	QPSK 50_50	21350/2560	1:1	0.153	0.16	20.81	21.20	1.094	0.167	21.1
Ant 4 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_99	21100/2535	1:1	0.184	0.08	12.37	13.50	1.297	0.239	21.1
Left tilted	20	QPSK 1_99	21100/2535	1:1	0.182	0.13	12.37	13.50	1.297	0.236	21.1
Right cheek	20	QPSK 1_99	21100/2535	1:1	0.285	0.12	12.37	13.50	1.297	0.370	21.1
Right tilted	20	QPSK 1_99	21100/2535	1:1	0.352	0.03	12.37	13.50	1.297	**0.457**	21.1
Right tilted	20	PCC QPSK 1_99 SCC QPSK 1_0	21099/2534.9 20901/2585.1	1:1	0.339	0.04	12.35	13.50	1.303	0.442	21.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_50	21100/2535	1:1	0.249	0.07	12.34	13.50	1.306	0.325	21.1
Left tilted	20	QPSK 50_50	21100/2535	1:1	0.283	0.10	12.34	13.50	1.306	0.370	21.1
Right cheek	20	QPSK 50_50	21100/2535	1:1	0.280	0.11	12.34	13.50	1.306	0.366	21.1
Right tilted	20	QPSK 50_50	21100/2535	1:1	0.329	0.08	12.34	13.50	1.306	0.430	21.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	21350/2560	1:1	0.291	0.00	23.38	24.50	1.294	0.377	21.1
Back side	20	QPSK 1_99	21350/2560	1:1	0.337	0.09	23.38	24.50	1.294	0.436	21.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	21100/2535	1:1	0.395	0.07	22.94	23.50	1.138	0.449	21.1
Back side	20	QPSK 50_50	21100/2535	1:1	0.505	-0.12	22.94	23.50	1.138	**0.575**	21.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.488	-0.08	23.08	23.50	1.102	0.538	21.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	21100/2535	1:1	0.060	0.00	12.37	13.50	1.297	0.077	21.1
Back side	20	QPSK 1_99	21100/2535	1:1	0.067	0.10	12.37	13.50	1.297	0.087	21.1

Left side	20	QPSK 1_99	21100/2535	1:1	0.016	0.06	12.37	13.50	1.297	0.021	21.1
Rightt side	20	QPSK 1_99	21100/2535	1:1	0.014	0.04	12.37	13.50	1.297	0.018	21.1
Top side	20	QPSK 1_99	21100/2535	1:1	0.145	0.14	12.37	13.50	1.297	0.188	21.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	21100/2535	1:1	0.061	0.00	12.34	13.50	1.306	0.079	21.1
Back side	20	QPSK 50_50	21100/2535	1:1	0.063	0.02	12.34	13.50	1.306	0.082	21.1
Left side	20	QPSK 50_50	21100/2535	1:1	0.016	0.11	12.34	13.50	1.306	0.021	21.1
Rightt side	20	QPSK 50_50	21100/2535	1:1	0.015	-0.20	12.34	13.50	1.306	0.019	21.1
Top side	20	QPSK 50_50	21100/2535	1:1	0.147	0.16	12.34	13.50	1.306	**0.192**	21.1
Top side	20	PCC QPSK 1_99 SCC QPSK 1_0	21099/2534.9 21297/2554.7	1:1	0.142	0.06	12.35	13.50	1.303	0.185	21.1

Ant 3 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	21100/2535	1:1	0.102	0.01	25.08	25.70	1.153	0.118	21.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.102	0.11	25.08	25.70	1.153	0.118	21.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.163	0.09	25.08	25.70	1.153	**0.188**	21.1
Right cheek	20	PCC QPSK 1_0 SCC QPSK 1_99	21099/2534.9 20901/2515.1	1:1	0.156	0.08	24.95	25.70	1.189	0.185	21.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.052	0.01	25.08	25.70	1.153	0.060	21.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.092	0.03	24.63	24.70	1.016	0.093	21.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.095	0.06	24.63	24.70	1.016	0.097	21.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.147	0.00	24.63	24.70	1.016	0.149	21.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.046	0.18	24.63	24.70	1.016	0.047	21.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	21350/2560	1:1	0.080	0.04	25.08	25.70	1.153	0.093	21.1
Back side	20	QPSK 1_99	21350/2560	1:1	0.102	0.12	25.08	25.70	1.153	**0.118**	21.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.092	0.02	24.79	25.70	1.233	0.113	21.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	21350/2560	1:1	0.094	0.05	24.63	24.70	1.016	0.096	21.1
Back side	20	QPSK 50_50	21350/2560	1:1	0.103	-0.07	24.63	24.70	1.016	0.105	21.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	21350/2560	1:1	0.138	0.01	17.35	17.70	1.084	0.150	21.1
Back side	20	QPSK 1_99	21350/2560	1:1	0.180	0.03	17.35	17.70	1.084	0.195	21.1
Left side	20	QPSK 1_99	21350/2560	1:1	0.021	0.02	17.35	17.70	1.084	0.023	21.1
Rightt side	20	QPSK 1_99	21350/2560	1:1	0.064	0.06	17.35	17.70	1.084	0.069	21.1
Bottom side	20	QPSK 1_99	21350/2560	1:1	0.167	-0.04	17.35	17.70	1.084	0.181	21.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	21350/2560	1:1	0.136	0.04	17.22	17.70	1.117	0.152	21.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.176	-0.09	17.22	17.70	1.117	**0.197**	21.1
Left side	20	QPSK 50_25	21350/2560	1:1	0.020	0.07	17.22	17.70	1.117	0.023	21.1
Rightt side	20	QPSK 50_25	21350/2560	1:1	0.062	0.03	17.22	17.70	1.117	0.069	21.1
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.163	-0.01	17.22	17.70	1.117	0.182	21.1
Bottom side	20	PCC QPSK 1_0 SCC QPSK 1_99	21152/2540.2 21350/2560	1:1	0.160	0.05	17.22	17.70	1.117	0.179	21.1

Ant 6 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	21100/2535	1:1	0.095	0.00	22.97	23.50	1.130	0.107	21.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.052	-0.20	22.97	23.50	1.130	0.059	21.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.353	0.15	22.97	23.50	1.130	**0.399**	21.1
Right cheek	20	PCC QPSK 1_0 SCC QPSK 1_99	21099/2534.9 20901/2585.1	1:1	0.338	0.10	22.87	23.50	1.156	0.391	21.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.044	-0.10	22.97	23.50	1.130	0.049	21.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.077	0.00	22.42	22.50	1.019	0.079	21.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.038	-0.01	22.42	22.50	1.019	0.039	21.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.313	0.00	22.42	22.50	1.019	0.319	21.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.043	0.18	22.42	22.50	1.019	0.044	21.1
Body worn Test data(Separate 15mm 1RB)											

Front side	20	QPSK 1_0	21100/2535	1:1	0.069	0.08	19.58	20.50	1.236	0.086	21.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.092	-0.09	19.58	20.50	1.236	**0.114**	21.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	21099/2534.9 20901/2585.1	1:1	0.088	0.06	22.87	23.50	1.156	0.102	21.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.066	0.02	19.51	20.50	1.256	0.082	21.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.083	0.06	19.51	20.50	1.256	0.104	21.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	21100/2535	1:1	0.193	0.09	19.58	20.50	1.236	0.239	21.1
Back side	20	QPSK 1_99	21100/2535	1:1	0.275	0.07	19.58	20.50	1.236	0.340	21.1
Rightt side	20	QPSK 1_99	21100/2535	1:1	0.491	0.08	19.58	20.50	1.236	0.607	21.1
Bottom side	20	QPSK 1_99	21100/2535	1:1	0.044	-0.07	19.58	20.50	1.236	0.054	21.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	21100/2535	1:1	0.197	0.02	19.51	20.50	1.256	0.247	21.1
Back side	20	QPSK 50_50	21100/2535	1:1	0.275	0.05	19.51	20.50	1.256	0.345	21.1
Rightt side	20	QPSK 50_50	21100/2535	1:1	0.513	0.13	19.51	20.50	1.256	**0.644**	21.1
Rightt side	20	PCC QPSK 1_0 SCC QPSK 1_99	21099/2534.9 20901/2585.1	1:1	0.485	0.12	19.30	20.50	1.318	0.639	21.1
Bottom side	20	QPSK 50_50	21100/2535	1:1	0.043	-0.06	19.51	20.50	1.256	0.054	21.1

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

8.2.4 SAR Result of LTE Band 12

Ant 1 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	10	QPSK 1_49	23095/707.5	1:1	0.373	0.09	21.98	23.00	1.265	0.472	22.3
Left tilted	10	QPSK 1_49	23095/707.5	1:1	0.302	0.03	21.98	23.00	1.265	0.382	22.3
Right cheek	10	QPSK 1_49	23095/707.5	1:1	0.784	-0.07	21.98	23.00	1.265	0.992	22.3
Right cheek	10	QPSK 1_0	23060/704	1:1	0.644	0.10	21.86	23.00	1.300	0.837	22.3
Right cheek	10	QPSK 1_0	23130/711	1:1	0.776	-0.03	21.94	23.00	1.276	0.991	22.3
Right tilted	10	QPSK 1_49	23095/707.5	1:1	0.610	0.04	21.98	23.00	1.265	0.771	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_13	23130/711	1:1	0.389	-0.02	21.68	23.00	1.355	0.527	22.3
Left tilted	10	QPSK 25_13	23130/711	1:1	0.315	0.07	21.68	23.00	1.355	0.427	22.3
Right cheek	10	QPSK 25_13	23130/711	1:1	0.660	0.00	21.68	23.00	1.355	0.894	22.3
Right cheek	10	QPSK 25_13	23060/704	1:1	0.797	0.01	21.63	23.00	1.371	**1.093**	22.3
Right cheek	10	QPSK 25_25	23095/707.5	1:1	0.677	0.01	21.62	23.00	1.374	0.930	22.3
Right tilted	10	QPSK 25_13	23130/711	1:1	0.644	0.01	21.68	23.00	1.355	0.873	22.3
Head Test Data(100%RB)											
Right cheek	10	QPSK 50_0	23130/711	1:1	0.662	0.01	21.71	23.00	1.346	0.891	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.147	0.03	23.70	25.00	1.349	0.198	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.156	0.03	23.70	25.00	1.349	**0.210**	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.140	0.06	23.17	24.00	1.211	0.169	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.157	0.03	23.17	24.00	1.211	0.190	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_49	23095/707.5	1:1	0.224	0.07	21.98	23.00	1.265	0.283	22.3
Back side	10	QPSK 1_49	23095/707.5	1:1	0.239	-0.03	21.98	23.00	1.265	0.302	22.3
Left side	10	QPSK 1_49	23095/707.5	1:1	0.400	0.05	21.98	23.00	1.265	**0.506**	22.3
Top side	10	QPSK 1_49	23095/707.5	1:1	0.197	0.07	21.98	23.00	1.265	0.249	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_13	23095/707.5	1:1	0.219	0.05	21.68	23.00	1.355	0.297	22.3
Back side	10	QPSK 25_13	23095/707.5	1:1	0.250	0.03	21.68	23.00	1.355	0.339	22.3
Left side	10	QPSK 25_13	23095/707.5	1:1	0.274	0.08	21.68	23.00	1.355	0.371	22.3
Top side	10	QPSK 25_13	23095/707.5	1:1	0.136	0.18	21.68	23.00	1.355	0.184	22.3
Ant 0 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	10	QPSK 1_0	23095/707.5	1:1	0.126	0.06	24.23	25.70	1.403	0.177	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.074	0.03	24.23	25.70	1.403	0.103	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.117	0.04	24.23	25.70	1.403	0.164	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.070	0.15	24.23	25.70	1.403	0.098	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.148	0.09	23.60	24.70	1.288	**0.191**	22.3
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.080	0.18	23.60	24.70	1.288	0.103	22.3
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.109	0.04	23.60	24.70	1.288	0.140	22.3
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.066	0.19	23.60	24.70	1.288	0.085	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.175	-0.03	24.23	25.70	1.403	**0.245**	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.154	0.04	24.23	25.70	1.403	0.216	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.158	0.02	23.60	24.70	1.288	0.204	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.149	0.01	23.60	24.70	1.288	0.192	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.259	0.17	24.23	25.70	1.403	0.363	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.312	0.05	24.23	25.70	1.403	0.438	22.3
Left side	10	QPSK 1_0	23095/707.5	1:1	0.350	0.06	24.23	25.70	1.403	**0.491**	22.3
Rightt side	10	QPSK 1_0	23095/707.5	1:1	0.125	0.02	24.23	25.70	1.403	0.175	22.3
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.091	0.09	24.23	25.70	1.403	0.128	22.3
Hotspot Test data(Separate 10mm 50%RB)											

Front side	10	QPSK 25_0	23095/707.5	1:1	0.242	0.02	23.60	24.70	1.288	0.312	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.268	0.01	23.60	24.70	1.288	0.345	22.3
Left side	10	QPSK 25_0	23095/707.5	1:1	0.326	0.03	23.60	24.70	1.288	0.420	22.3
Rightt side	10	QPSK 25_0	23095/707.5	1:1	0.117	0.05	23.60	24.70	1.288	0.151	22.3
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.086	0.06	23.60	24.70	1.288	0.111	22.3

Table 20：SAR of LTE Band 12 for Head and Body.

8.2.5 SAR Result of LTE Band 17

Ant 1 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	10	QPSK 1_25	23800/711	1:1	0.384	0.01	22.06	23.00	1.242	0.477	22.3
Left tilted	10	QPSK 1_25	23800/711	1:1	0.311	-0.07	22.06	23.00	1.242	0.386	22.3
Right cheek	10	QPSK 1_25	23800/711	1:1	0.800	-0.01	22.06	23.00	1.242	0.993	22.3
Right cheek	10	QPSK 1_0	23780/709	1:1	0.829	-0.02	21.96	23.00	1.271	1.053	22.3
Right cheek-Repeat	10	QPSK 1_0	23780/709	1:1	0.811	0.01	21.96	23.00	1.271	1.030	22.3
Right cheek	10	QPSK 1_25	23790/710	1:1	0.827	0.04	21.92	23.00	1.282	**1.060**	22.3
Right tilted	10	QPSK 1_25	23800/711	1:1	0.629	0.05	22.06	23.00	1.242	0.781	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_13	23780/709	1:1	0.398	-0.01	22.13	23.00	1.222	0.486	22.3
Left tilted	10	QPSK 25_13	23780/709	1:1	0.321	-0.06	22.13	23.00	1.222	0.392	22.3
Right cheek	10	QPSK 25_13	23780/709	1:1	0.705	-0.01	22.13	23.00	1.222	0.861	22.3
Right cheek	10	QPSK 25_25	23790/710	1:1	0.636	0.01	22.06	23.00	1.242	0.790	22.3
Right cheek	10	QPSK 25_0	23800/711	1:1	0.701	0.01	22.08	23.00	1.236	0.866	22.3
Right tilted	10	QPSK 25_13	23780/709	1:1	0.654	0.03	22.13	23.00	1.222	0.799	22.3
Head Test Data(100%RB)											
Right cheek	10	QPSK 50_0	23800/711	1:1	0.657	0.05	22.03	23.00	1.250	0.821	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23790/710	1:1	0.146	-0.01	23.67	25.00	1.358	0.198	22.3
Back side	10	QPSK 1_0	23790/710	1:1	0.168	0.05	23.67	25.00	1.358	**0.228**	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23790/710	1:1	0.136	-0.02	23.24	24.00	1.191	0.162	22.3
Back side	10	QPSK 25_0	23790/710	1:1	0.155	0.02	23.24	24.00	1.191	0.185	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_25	23800/711	1:1	0.229	0.06	22.06	23.00	1.242	0.284	22.3
Back side	10	QPSK 1_25	23800/711	1:1	0.242	0.10	22.06	23.00	1.242	0.300	22.3
Left side	10	QPSK 1_25	23800/711	1:1	0.392	0.01	22.06	23.00	1.242	**0.487**	22.3
Top side	10	QPSK 1_25	23800/711	1:1	0.196	0.02	22.06	23.00	1.242	0.243	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_13	23780/709	1:1	0.234	0.00	22.13	23.00	1.222	0.286	22.3
Back side	10	QPSK 25_13	23780/709	1:1	0.257	0.01	22.13	23.00	1.222	0.314	22.3
Left side	10	QPSK 25_13	23780/709	1:1	0.291	0.07	22.13	23.00	1.222	0.356	22.3
Top side	10	QPSK 25_13	23780/709	1:1	0.144	0.19	22.13	23.00	1.222	0.176	22.3
Ant 0 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	10	QPSK 1_0	23790/710	1:1	0.131	0.16	24.59	25.70	1.291	**0.169**	22.3
Left tilted	10	QPSK 1_0	23790/710	1:1	0.078	-0.06	24.59	25.70	1.291	0.101	22.3
Right cheek	10	QPSK 1_0	23790/710	1:1	0.120	0.03	24.59	25.70	1.291	0.155	22.3
Right tilted	10	QPSK 1_0	23790/710	1:1	0.073	0.14	24.59	25.70	1.291	0.094	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23790/710	1:1	0.124	0.13	24.16	24.70	1.132	0.140	22.3
Left tilted	10	QPSK 25_0	23790/710	1:1	0.074	0.02	24.16	24.70	1.132	0.084	22.3
Right cheek	10	QPSK 25_0	23790/710	1:1	0.113	0.06	24.16	24.70	1.132	0.128	22.3
Right tilted	10	QPSK 25_0	23790/710	1:1	0.070	0.17	24.16	24.70	1.132	0.079	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23790/710	1:1	0.182	0.06	24.59	25.70	1.291	**0.235**	22.3
Back side	10	QPSK 1_0	23790/710	1:1	0.158	0.04	24.59	25.70	1.291	0.204	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23790/710	1:1	0.163	0.01	24.16	24.70	1.132	0.185	22.3
Back side	10	QPSK 25_0	23790/710	1:1	0.155	0.03	24.16	24.70	1.132	0.176	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23790/710	1:1	0.267	0.04	24.59	25.70	1.291	0.345	22.3
Back side	10	QPSK 1_0	23790/710	1:1	0.319	0.02	24.59	25.70	1.291	0.412	22.3
Left side	10	QPSK 1_0	23790/710	1:1	0.359	0.05	24.59	25.70	1.291	**0.464**	22.3
Rightt side	10	QPSK 1_0	23790/710	1:1	0.129	-0.02	24.59	25.70	1.291	0.167	22.3
Bottom side	10	QPSK 1_0	23790/710	1:1	0.096	0.08	24.59	25.70	1.291	0.123	22.3

Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23790/710	1:1	0.255	0.05	24.16	24.70	1.132	0.289	22.3
Back side	10	QPSK 25_0	23790/710	1:1	0.303	0.00	24.16	24.70	1.132	0.343	22.3
Left side	10	QPSK 25_0	23790/710	1:1	0.333	0.02	24.16	24.70	1.132	0.377	22.3
Rightt side	10	QPSK 25_0	23790/710	1:1	0.130	0.02	24.16	24.70	1.132	0.147	22.3
Bottom side	10	QPSK 25_0	23790/710	1:1	0.091	0.08	24.16	24.70	1.132	0.103	22.3

Table 21：SAR of LTE Band 17 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Right cheek	23780/709	0.829	0.811	1.022	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						

8.2.6 SAR Result of LTE Band 26

Ant 1 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	15	QPSK 1_0	26965/841.5	1:1	0.157	-0.13	16.98	18.00	1.265	0.199	22.3
Left tilted	15	QPSK 1_0	26965/841.5	1:1	0.124	0.07	16.98	18.00	1.265	0.157	22.3
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.386	-0.12	16.98	18.00	1.265	**0.488**	22.3
Right tilted	15	QPSK 1_0	26965/841.5	1:1	0.309	0.08	16.98	18.00	1.265	0.391	22.3
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_18	26765/821.5	1:1	0.114	0.13	16.89	18.00	1.291	0.147	22.3
Left tilted	15	QPSK 36_18	26765/821.5	1:1	0.092	0.16	16.89	18.00	1.291	0.118	22.3
Right cheek	15	QPSK 36_18	26765/821.5	1:1	0.279	0.00	16.89	18.00	1.291	0.360	22.3
Right tilted	15	QPSK 36_18	26765/821.5	1:1	0.238	0.10	16.89	18.00	1.291	0.307	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1_38	26765/821.5	1:1	0.130	-0.06	23.77	25.00	1.327	0.173	22.3
Back side	15	QPSK 1_38	26765/821.5	1:1	0.164	-0.09	23.77	25.00	1.327	**0.218**	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	15	QPSK 36_18	26865/831.5	1:1	0.124	0.07	23.09	24.00	1.233	0.153	22.3
Back side	15	QPSK 36_18	26865/831.5	1:1	0.127	0.09	23.09	24.00	1.233	0.157	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26965/841.5	1:1	0.096	0.03	16.98	18.00	1.265	0.122	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	0.099	-0.03	16.98	18.00	1.265	0.125	22.3
Left side	15	QPSK 1_0	26965/841.5	1:1	0.111	0.09	16.98	18.00	1.265	0.140	22.3
Top side	15	QPSK 1_0	26965/841.5	1:1	0.072	0.13	16.98	18.00	1.265	0.091	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_18	26765/821.5	1:1	0.089	0.07	16.89	18.00	1.291	0.115	22.3
Back side	15	QPSK 36_18	26765/821.5	1:1	0.099	0.07	16.89	18.00	1.291	0.127	22.3
Left side	15	QPSK 36_18	26765/821.5	1:1	0.116	0.03	16.89	18.00	1.291	**0.150**	22.3
Top side	15	QPSK 36_18	26765/821.5	1:1	0.077	0.20	16.89	18.00	1.291	0.100	22.3
Ant 0 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	15	QPSK 1_0	26965/841.5	1:1	0.268	0.15	24.23	25.70	1.403	0.376	22.3
Left tilted	15	QPSK 1_0	26965/841.5	1:1	0.133	-0.02	24.23	25.70	1.403	0.187	22.3
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.212	-0.09	24.23	25.70	1.403	0.297	22.3
Right tilted	15	QPSK 1_0	26965/841.5	1:1	0.143	0.04	24.23	25.70	1.403	0.201	22.3
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_39	26965/841.5	1:1	0.236	0.01	23.45	25.70	1.679	**0.396**	22.3
Left tilted	15	QPSK 36_39	26965/841.5	1:1	0.112	0.05	23.45	25.70	1.679	0.188	22.3
Right cheek	15	QPSK 36_39	26965/841.5	1:1	0.182	0.09	23.45	25.70	1.679	0.306	22.3
Right tilted	15	QPSK 36_39	26965/841.5	1:1	0.121	0.04	23.45	25.70	1.679	0.203	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1_0	26965/841.5	1:1	0.216	-0.01	24.23	25.70	1.403	0.303	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	0.260	0.04	24.23	25.70	1.403	0.365	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	15	QPSK 36_39	26965/841.5	1:1	0.199	0.08	23.45	25.70	1.679	0.334	22.3
Back side	15	QPSK 36_39	26965/841.5	1:1	0.240	0.07	23.45	25.70	1.679	**0.403**	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26965/841.5	1:1	0.461	0.11	24.23	25.70	1.403	0.647	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	0.493	0.04	24.23	25.70	1.403	0.692	22.3
Left side	15	QPSK 1_0	26965/841.5	1:1	0.355	0.06	24.23	25.70	1.403	0.498	22.3
Rightt side	15	QPSK 1_0	26965/841.5	1:1	0.166	-0.01	24.23	25.70	1.403	0.233	22.3
Bottom side	15	QPSK 1_0	26965/841.5	1:1	0.229	0.14	24.23	25.70	1.403	0.321	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_39	26965/841.5	1:1	0.417	0.04	23.45	25.70	1.679	0.700	22.3
Back side	15	QPSK 36_39	26965/841.5	1:1	0.441	0.05	23.45	25.70	1.679	**0.740**	22.3
Left side	15	QPSK 36_39	26965/841.5	1:1	0.417	0.10	23.45	25.70	1.679	0.700	22.3
Rightt side	15	QPSK 36_39	26965/841.5	1:1	0.134	0.05	23.45	25.70	1.679	0.225	22.3
Bottom side	15	QPSK 36_39	26965/841.5	1:1	0.218	0.04	23.45	25.70	1.679	0.366	22.3

Table 22：SAR of LTE Band 26 for Head and Body.

8.2.1 SAR Result of LTE Band 38

Ant 5 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_99	38000/2595	1:1.58	0.198	-0.19	18.65	19.20	1.135	0.225	21.9
Left tilted	20	QPSK 1_99	38000/2595	1:1.58	0.036	-0.14	18.65	19.20	1.135	0.041	21.9
Right cheek	20	QPSK 1_99	38000/2595	1:1.58	0.477	-0.01	18.65	19.20	1.135	**0.541**	21.9
Right cheek	20	PCC QPSK 1_0	37901/2585.1	1:1.58	0.457	-0.06	18.84	19.20	1.086	0.496	21.9
		SCC QPSK 1_99	38099/2604.9								
Right tilted	20	QPSK 1_99	38000/2595	1:1.58	0.168	0.15	18.65	19.20	1.135	0.191	21.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	38150/2610	1:1.58	0.236	-0.13	18.36	19.20	1.213	0.286	21.9
Left tilted	20	QPSK 50_0	38150/2610	1:1.58	0.05	-0.20	18.36	19.20	1.213	0.059	21.9
Right cheek	20	QPSK 50_0	38150/2610	1:1.58	0.337	0.10	18.36	19.20	1.213	0.409	21.9
Right tilted	20	QPSK 50_0	38150/2610	1:1.58	0.096	-0.16	18.36	19.20	1.213	0.116	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_50	38000/2595	1:1.58	0.162	0.07	24.93	25.70	1.194	0.193	21.9
Back side	20	QPSK 1_50	38000/2595	1:1.58	0.277	-0.14	24.93	25.70	1.194	**0.331**	21.9
Back side	20	PCC QPSK 1_0	37901/2585.1	1:1.58	0.254	-0.05	24.79	25.70	1.233	0.313	21.9
		SCC QPSK 1_99	38099/2604.9								
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	38000/2595	1:1.58	0.147	0.11	24.39	24.70	1.074	0.158	21.9
Back side	20	QPSK 50_50	38000/2595	1:1.58	0.247	-0.20	24.39	24.70	1.074	0.265	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_50	38000/2595	1:1.58	0.125	0.09	18.45	19.20	1.189	0.149	21.9
Back side	20	QPSK 1_50	38000/2595	1:1.58	0.142	-0.07	18.45	19.20	1.189	0.169	21.9
Left side	20	QPSK 1_50	38000/2595	1:1.58	0.137	0.13	18.45	19.20	1.189	0.163	21.9
Top side	20	QPSK 1_50	38000/2595	1:1.58	0.011	0.00	18.45	19.20	1.189	0.013	21.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.121	0.06	18.36	19.20	1.213	0.147	21.9
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.143	0.16	18.36	19.20	1.213	**0.174**	21.9
Back side	20	PCC QPSK 1_0	37901/2585.1	1:1.58	0.133	0.04	18.84	19.20	1.086	0.144	21.9
		SCC QPSK 1_99	38099/2604.9								
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.140	0.02	18.36	19.20	1.213	0.170	21.9
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.010	0.00	18.36	19.20	1.213	0.013	21.9
Ant 4 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	38000/2595	1:1.58	0.228	0.06	14.92	16.00	1.282	0.292	21.9
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.280	0.100	14.92	16.00	1.282	0.359	21.9
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.329	0.06	14.92	16.00	1.282	0.422	21.9
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.357	0.13	14.92	16.00	1.282	0.458	21.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_50	38000/2595	1:1.58	0.233	0.12	14.91	16.00	1.285	0.299	21.9
Left tilted	20	QPSK 50_50	38000/2595	1:1.58	0.279	0.01	14.91	16.00	1.285	0.359	21.9
Right cheek	20	QPSK 50_50	38000/2595	1:1.58	0.328	0.08	14.91	16.00	1.285	0.422	21.9
Right tilted	20	QPSK 50_50	38000/2595	1:1.58	0.367	-0.11	14.91	16.00	1.285	**0.472**	21.9
Right tilted	20	PCC QPSK 1_0	37901/2585.1	1:1.58	0.330	0.01	14.74	16.00	1.337	0.441	21.9
		SCC QPSK 1_99	38099/2604.9								
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_50	38150/2610	1:1.58	0.248	0.08	22.82	24.50	1.472	0.365	21.9
Back side	20	QPSK 1_50	38150/2610	1:1.58	0.314	0.03	22.82	24.50	1.472	**0.462**	21.9
Back side	20	PCC QPSK 1_0	37952/2590.2	1:1.58	0.296	0.05	22.74	24.50	1.500	0.444	21.9
		SCC QPSK 1_0	38150/2610								
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	38000/2595	1:1.58	0.232	0.05	22.29	23.50	1.321	0.307	21.9
Back side	20	QPSK 50_50	38000/2595	1:1.58	0.295	0.05	22.29	23.50	1.321	0.390	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.081	0.15	14.92	16.00	1.282	0.104	21.9
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.073	0.00	14.92	16.00	1.282	0.094	21.9

Left side	20	QPSK 1_0	38000/2595	1:1.58	0.017	0.13	14.92	16.00	1.282	0.022	21.9
Rightt side	20	QPSK 1_0	38000/2595	1:1.58	0.010	0.02	14.92	16.00	1.282	0.013	21.9
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.174	0.07	14.92	16.00	1.282	**0.223**	21.9
Top side	20	PCC QPSK 1_0 SCC QPSK 1_99	37901/2585.1 38099/2604.9	1:1.58	0.162	0.04	14.74	16.00	1.337	0.217	21.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	38000/2595	1:1.58	0.082	0.16	14.91	16.00	1.285	0.105	21.9
Back side	20	QPSK 50_50	38000/2595	1:1.58	0.070	0.12	14.91	16.00	1.285	0.089	21.9
Left side	20	QPSK 50_50	38000/2595	1:1.58	0.019	-0.06	14.91	16.00	1.285	0.024	21.9
Rightt side	20	QPSK 50_50	38000/2595	1:1.58	0.016	-0.15	14.91	16.00	1.285	0.021	21.9
Top side	20	QPSK 50_50	38000/2595	1:1.58	0.165	0.10	14.91	16.00	1.285	0.212	21.9

Ant 3 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	38000/2595	1:1.58	0.085	0.03	25.04	25.70	1.164	0.098	21.9
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.072	0.14	25.04	25.70	1.164	0.084	21.9
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.100	0.00	25.04	25.70	1.164	**0.116**	21.9
Right cheek	20	PCC QPSK 1_0 SCC QPSK 1_99	37901/2585.1 38099/2604.9	1:1.58	0.093	0.05	24.76	25.70	1.242	0.115	21.9
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.031	0.04	25.04	25.70	1.164	0.036	21.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.071	0.03	24.55	24.70	1.035	0.074	21.9
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.069	0.04	24.55	24.70	1.035	0.071	21.9
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.086	0.00	24.55	24.70	1.035	0.089	21.9
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.031	0.11	24.55	24.70	1.035	0.032	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	37850/2580	1:1.58	0.128	0.09	25.04	25.70	1.164	0.149	21.9
Back side	20	QPSK 1_99	37850/2580	1:1.58	0.162	0.15	25.04	25.70	1.164	**0.189**	21.9
Back side	20	PCC QPSK 1_99 SCC QPSK 1_0	37850/2580 38048/2599.8	1:1.58	0.153	0.01	24.89	25.70	1.205	0.184	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	37850/2580	1:1.58	0.127	-0.18	24.55	24.70	1.035	0.131	21.9
Back side	20	QPSK 50_25	37850/2580	1:1.58	0.164	0.19	24.55	24.70	1.035	0.170	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	37850/2580	1:1.58	0.206	-0.10	20.90	21.20	1.072	0.221	21.9
Back side	20	QPSK 1_0	37850/2580	1:1.58	0.243	-0.05	20.90	21.20	1.072	0.260	21.9
Left side	20	QPSK 1_0	37850/2580	1:1.58	0.011	0.20	20.90	21.20	1.072	0.012	21.9
Rightt side	20	QPSK 1_0	37850/2580	1:1.58	0.113	-0.10	20.90	21.20	1.072	0.121	21.9
Bottom side	20	QPSK 1_0	37850/2580	1:1.58	0.275	0.13	20.90	21.20	1.072	**0.295**	21.9
Bottom side	20	PCC QPSK 1_99 SCC QPSK 1_0	37850/2580 38048/2599.8	1:1.58	0.258	-0.12	21.85	22.20	1.084	0.280	21.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	37850/2580	1:1.58	0.205	0.14	20.89	21.20	1.074	0.220	21.9
Back side	20	QPSK 50_25	37850/2580	1:1.58	0.246	0.17	20.89	21.20	1.074	0.264	21.9
Left side	20	QPSK 50_25	37850/2580	1:1.58	0.011	0.06	20.89	21.20	1.074	0.012	21.9
Rightt side	20	QPSK 50_25	37850/2580	1:1.58	0.104	0.19	20.89	21.20	1.074	0.112	21.9
Bottom side	20	QPSK 50_25	37850/2580	1:1.58	0.259	-0.07	20.89	21.20	1.074	0.278	21.9

Ant 6 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	38000/2595	1:1.58	0.074	0.14	22.69	24.00	1.352	0.100	21.9
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.050	-0.06	22.69	24.00	1.352	0.067	21.9
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.267	-0.07	22.69	24.00	1.352	**0.361**	21.9
Right cheek	20	PCC QPSK 1_0 SCC QPSK 1_99	37901/2585.1 38099/2604.9	1:1.58	0.248	-0.04	22.49	24.00	1.416	0.351	21.9
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.083	0.16	22.69	24.00	1.352	0.112	21.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.077	0.04	22.17	23.00	1.211	0.093	21.9
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.048	-0.05	22.17	23.00	1.211	0.058	21.9
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.235	0.01	22.17	23.00	1.211	0.284	21.9
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.046	0.05	22.17	23.00	1.211	0.056	21.9
Body worn Test data(Separate 15mm 1RB)											

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Front side	20	QPSK 1_50	38000/2595	1:1.58	0.087	0.02	21.19	22.00	1.205	0.104	21.9
Back side	20	QPSK 1_50	38000/2595	1:1.58	0.119	-0.05	21.19	22.00	1.205	**0.143**	21.9
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	37901/2585.1 38099/2604.9	1:1.58	0.109	-0.08	21.10	22.00	1.230	0.134	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	38000/2595	1:1.58	0.082	0.10	21.18	22.00	1.208	0.099	21.9
Back side	20	QPSK 50_50	38000/2595	1:1.58	0.113	0.08	21.18	22.00	1.208	0.136	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.164	0.06	21.19	22.00	1.205	0.198	21.9
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.266	0.08	21.19	22.00	1.205	0.321	21.9
Rightt side	20	QPSK 1_0	38000/2595	1:1.58	0.343	-0.07	21.19	22.00	1.205	0.413	21.9
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.044	-0.03	21.19	22.00	1.205	0.053	21.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.163	0.14	21.18	22.00	1.208	0.197	21.9
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.251	0.07	21.18	22.00	1.208	0.303	21.9
Rightt side	20	QPSK 50_0	38000/2595	1:1.58	0.349	0.10	21.18	22.00	1.208	**0.422**	21.9
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.042	0.05	21.18	22.00	1.208	0.050	21.9
Rightt side	20	PCC QPSK 1_0 SCC QPSK 1_99	37901/2585.1 38099/2604.9	1:1.58	0.317	0.04	21.10	22.00	1.230	0.390	21.9

Table 23：SAR of LTE Band 38 for Head and Body.

8.2.2 SAR Result of LTE Band 41

Ant 5 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	41055/2636.5	1:1.58	0.210	-0.15	17.57	18.70	1.297	0.272	22
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.030	-0.15	17.57	18.70	1.297	0.038	22
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.365	0.00	17.57	18.70	1.297	**0.473**	22
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.074	0.20	17.57	18.70	1.297	0.095	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.177	0.00	17.55	18.70	1.303	0.231	22
Left tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.0264	-0.13	17.55	18.70	1.303	0.034	22
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.316	0.00	17.55	18.70	1.303	0.412	22
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.061	0.12	17.55	18.70	1.303	0.079	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	40620/2593	1:1.58	0.164	0.06	24.80	25.70	1.230	0.202	22
Back side	20	QPSK 1_99	40620/2593	1:1.58	0.245	0.11	24.80	25.70	1.230	**0.301**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	41055/2636.5	1:1.58	0.158	0.09	24.34	24.70	1.086	0.172	22
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.204	0.03	24.34	24.70	1.086	0.222	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.126	0.20	17.57	18.70	1.297	0.163	22
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.117	0.11	17.57	18.70	1.297	0.152	22
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.128	-0.02	17.57	18.70	1.297	0.166	22
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.011	-0.05	17.57	18.70	1.297	0.014	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	41055/2636.5	1:1.58	0.122	0.01	17.55	18.70	1.303	0.159	22
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.121	0.16	17.55	18.70	1.303	0.158	22
Left side	20	QPSK 50_0	41055/2636.5	1:1.58	0.129	0.20	17.55	18.70	1.303	**0.168**	22
Top side	20	QPSK 50_0	41055/2636.5	1:1.58	0.011	-0.01	17.55	18.70	1.303	0.014	22
Ant 4 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_99	41490/2680	1:1.58	0.175	0.24	15.35	16.50	1.303	0.228	22
Left tilted	20	QPSK 1_99	41490/2680	1:1.58	0.202	0.07	15.35	16.50	1.303	0.263	22
Right cheek	20	QPSK 1_99	41490/2680	1:1.58	0.224	0.07	15.35	16.50	1.303	0.292	22
Right tilted	20	QPSK 1_99	41490/2680	1:1.58	0.317	0.19	15.35	16.50	1.303	0.413	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_50	41490/2680	1:1.58	0.179	-0.01	15.34	16.50	1.306	0.234	22
Left tilted	20	QPSK 50_50	41490/2680	1:1.58	0.219	0.14	15.34	16.50	1.306	0.286	22
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.233	0.08	15.34	16.50	1.306	0.304	22
Right tilted	20	QPSK 50_50	41490/2680	1:1.58	0.328	0.06	15.34	16.50	1.306	**0.428**	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.207	0.13	23.14	24.50	1.368	0.283	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.248	0.09	23.14	24.50	1.368	**0.339**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.187	0.02	22.67	23.50	1.211	0.226	22
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.233	0.03	22.67	23.50	1.211	0.282	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	41490/2680	1:1.58	0.062	0.00	15.35	16.50	1.303	0.081	22
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.063	0.08	15.35	16.50	1.303	0.082	22
Left side	20	QPSK 1_99	41490/2680	1:1.58	0.021	0.08	15.35	16.50	1.303	0.027	22
Rightt side	20	QPSK 1_99	41490/2680	1:1.58	0.011	0.09	15.35	16.50	1.303	0.015	22
Top side	20	QPSK 1_99	41490/2680	1:1.58	0.138	0.10	15.35	16.50	1.303	**0.180**	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	41490/2680	1:1.58	0.065	0.00	15.34	16.50	1.306	0.085	22
Back side	20	QPSK 50_50	41490/2680	1:1.58	0.064	0.00	15.34	16.50	1.306	0.084	22
Left side	20	QPSK 50_50	41490/2680	1:1.58	0.021	0.01	15.34	16.50	1.306	0.027	22
Rightt side	20	QPSK 50_50	41490/2680	1:1.58	0.012	0.09	15.34	16.50	1.306	0.016	22
Top side	20	QPSK 50_50	41490/2680	1:1.58	0.128	0.14	15.34	16.50	1.306	0.167	22

Ant 3 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	40620/2593	1:1.58	0.086	0.09	24.97	25.70	1.183	0.101	22
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.071	0.03	24.97	25.70	1.183	0.084	22
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.148	0.09	24.97	25.70	1.183	**0.175**	22
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.031	0.05	24.97	25.70	1.183	0.036	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.068	0.00	24.51	24.70	1.045	0.071	22
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.052	0.05	24.51	24.70	1.045	0.054	22
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.098	0.07	24.51	24.70	1.045	0.103	22
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.018	0.03	24.51	24.70	1.045	0.019	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.097	0.19	24.97	25.70	1.183	0.115	22
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.134	0.00	24.97	25.70	1.183	**0.159**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.098	0.20	24.51	24.70	1.045	0.102	22
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.127	0.18	24.51	24.70	1.045	0.133	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.087	0.07	21.47	21.70	1.054	0.091	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.286	0.08	21.47	21.70	1.054	0.302	22
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.049	0.05	21.47	21.70	1.054	0.051	22
Rightt side	20	QPSK 1_0	41490/2680	1:1.58	0.111	0.05	21.47	21.70	1.054	0.117	22
Bottom side	20	QPSK 1_0	41490/2680	1:1.58	0.340	0.14	21.47	21.70	1.054	0.358	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.086	0.02	21.26	21.70	1.107	0.095	22
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.286	0.07	21.26	21.70	1.107	0.316	22
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.049	0.08	21.26	21.70	1.107	0.054	22
Rightt side	20	QPSK 50_25	40620/2593	1:1.58	0.091	0.09	21.26	21.70	1.107	0.101	22
Bottom side	20	QPSK 50_25	40620/2593	1:1.58	0.338	0.07	21.26	21.70	1.107	**0.374**	22
Ant 6 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	40620/2593	1:1.58	0.077	0.03	22.56	24.00	1.393	0.107	22
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.054	-0.16	22.56	24.00	1.393	0.075	22
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.266	0.13	22.56	24.00	1.393	**0.371**	22
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.034	0.00	22.56	24.00	1.393	0.047	22
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.076	0.05	22.09	23.00	1.233	0.093	22
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.046	-0.18	22.09	23.00	1.233	0.057	22
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.214	0.07	22.09	23.00	1.233	0.264	22
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.075	0.16	22.09	23.00	1.233	0.092	22
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.080	0.02	22.11	23.00	1.227	0.098	22
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.116	0.08	22.11	23.00	1.227	**0.142**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.072	0.09	21.99	23.00	1.262	0.090	22
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.110	0.02	21.99	23.00	1.262	0.139	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.187	0.07	22.11	23.00	1.227	0.230	22
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.299	0.08	22.11	23.00	1.227	0.367	22
Rightt side	20	QPSK 1_99	39750/2506	1:1.58	0.473	0.06	22.11	23.00	1.227	**0.581**	22
Bottom side	20	QPSK 1_99	39750/2506	1:1.58	0.033	0.04	22.11	23.00	1.227	0.040	22
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.193	0.08	21.99	23.00	1.262	0.244	22
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.324	0.04	21.99	23.00	1.262	0.409	22
Rightt side	20	QPSK 50_0	39750/2506	1:1.58	0.357	0.02	21.99	23.00	1.262	0.450	22
Bottom side	20	QPSK 50_0	39750/2506	1:1.58	0.039	0.00	21.99	23.00	1.262	0.049	22

Table 24：SAR of LTE Band 41 for Head and Body.

8.2.3 SAR Result of 5G NR n5

Ant1 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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_1	166800/834	0.198	0.05	18.09	19.00	1.233	0.244	22
Left tilted	20	QPSK 1_1	166800/834	0.157	0.11	18.09	19.00	1.233	0.194	22
Right cheek	20	QPSK 1_1	166800/834	0.410	-0.18	18.09	19.00	1.233	**0.506**	22
Right tilted	20	QPSK 1_1	166800/834	0.330	0.08	18.09	19.00	1.233	0.407	22
Head Test data(50%RB)										
Left cheek	20	QPSK 50_28	167300/836.5	0.117	0.10	17.71	19.00	1.346	0.157	22
Left tilted	20	QPSK 50_28	167300/836.5	0.090	0.18	17.71	19.00	1.346	0.121	22
Right cheek	20	QPSK 50_28	167300/836.5	0.281	0.17	17.71	19.00	1.346	0.378	22
Right tilted	20	QPSK 50_28	167300/836.5	0.241	0.10	17.71	19.00	1.346	0.324	22
Body worn Test data(Separate 15mm 1RB)										
Front side	20	QPSK 1_1	167800/839	0.180	-0.01	23.28	24.00	1.180	0.212	22
Back side	20	QPSK 1_1	167800/839	0.203	0.12	23.28	24.00	1.180	0.240	22
Body worn Test data(Separate 15mm 50%RB)										
Front side	20	QPSK 50_28	167800/839	0.197	0.05	22.93	24.00	1.279	0.252	22
Back side	20	QPSK 50_28	167800/839	0.238	0.06	22.93	24.00	1.279	**0.304**	22
Hotspot Test data(Separate 10mm 1RB)										
Front side	20	QPSK 1_1	167800/839	0.061	-0.01	18.09	19.00	1.233	0.076	22
Back side	20	QPSK 1_1	167800/839	0.065	0.05	18.09	19.00	1.233	0.080	22
Left side	20	QPSK 1_1	167800/839	0.087	0.03	18.09	19.00	1.233	0.107	22
Top side	20	QPSK 1_1	167800/839	0.085	0.13	18.09	19.00	1.233	0.105	22
Hotspot Test data (Separate 10mm 50%RB)										
Front side	20	QPSK 50_28	167800/839	0.093	0.17	17.71	19.00	1.346	0.125	22
Back side	20	QPSK 50_28	167800/839	0.094	-0.02	17.71	19.00	1.346	**0.127**	22
Left side	20	QPSK 50_28	167800/839	0.059	0.17	17.71	19.00	1.346	0.079	22
Top side	20	QPSK 50_28	167800/839	0.077	0.19	17.71	19.00	1.346	0.104	22
Ant0 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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_1	167300/836.5	0.244	0.05	24.07	25.00	1.239	**0.302**	22
Left tilted	20	QPSK 1_1	167300/836.5	0.128	0.08	24.07	25.00	1.239	0.159	22
Right cheek	20	QPSK 1_1	167300/836.5	0.175	0.02	24.07	25.00	1.239	0.217	22
Right tilted	20	QPSK 1_1	167300/836.5	0.119	0.13	24.07	25.00	1.239	0.147	22
Head Test data(50%RB)										
Left cheek	20	QPSK 50_28	166800/834	0.205	0.08	23.87	25.00	1.297	0.266	22
Left tilted	20	QPSK 50_28	166800/834	0.103	0.05	23.87	25.00	1.297	0.134	22
Right cheek	20	QPSK 50_28	166800/834	0.141	0.01	23.87	25.00	1.297	0.183	22
Right tilted	20	QPSK 50_28	166800/834	0.092	0.07	23.87	25.00	1.297	0.120	22
Body worn Test data(Separate 15mm 1RB)										
Front side	20	QPSK 1_1	167300/836.5	0.197	0.07	24.07	25.00	1.239	0.244	22
Back side	20	QPSK 1_1	167300/836.5	0.200	0.01	24.07	25.00	1.239	**0.248**	22
Body worn Test data (Separate 15mm 50%RB)										
Front side	20	QPSK 50_28	166800/834	0.170	0.04	23.87	25.00	1.297	0.221	22
Back side	20	QPSK 50_28	166800/834	0.191	0.06	23.87	25.00	1.297	0.248	22
Hotspot Test data(Separate 10mm 1RB)										
Front side	20	QPSK 1_1	167300/836.5	0.331	0.02	21.93	23.00	1.279	0.423	22
Back side	20	QPSK 1_1	167300/836.5	0.354	0.00	21.93	23.00	1.279	**0.453**	22
Left side	20	QPSK 1_1	167300/836.5	0.221	-0.04	21.93	23.00	1.279	0.283	22
Right side	20	QPSK 1_1	167300/836.5	0.119	0.03	21.93	23.00	1.279	0.152	22
Bottom side	20	QPSK 1_1	167300/836.5	0.155	0.08	21.93	23.00	1.279	0.198	22
Hotspot Test data (Separate 10mm 50%RB)										
Front side	20	QPSK 50_28	166800/834	0.307	0.03	21.79	23.00	1.321	0.406	22
Back side	20	QPSK 50_28	166800/834	0.322	0.08	21.79	23.00	1.321	0.425	22
Left side	20	QPSK 50_28	166800/834	0.228	0.09	21.79	23.00	1.321	0.301	22
Right side	20	QPSK 50_28	166800/834	0.117	0.01	21.79	23.00	1.321	0.155	22
Bottom side	20	QPSK 50_28	166800/834	0.155	-0.03	21.79	23.00	1.321	0.205	22

Table 25：SAR of 5G NR n5 for Head and Body.

8.2.1 SAR Result of 5G NR n7

Ant5 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	40	QPSK 1_1	507000/2535	0.398	0.00	20.44	20.70	1.062	0.423	21.5
Left tilted	40	QPSK 1_1	507000/2535	0.044	0.00	20.44	20.70	1.062	0.047	21.5
Right cheek	40	QPSK 1_1	507000/2535	0.639	-0.04	20.44	20.70	1.062	0.678	21.5
Right tilted	40	QPSK 1_1	507000/2535	0.187	0.00	20.44	20.70	1.062	0.199	21.5
Head Test data(50%RB)										
Left cheek	40	QPSK 108_54	507000/2535	0.627	0.03	19.97	20.70	1.183	0.742	21.5
Left tilted	40	QPSK 108_54	507000/2535	0.125	-0.01	19.97	20.70	1.183	0.148	21.5
Right cheek	40	QPSK 108_54	507000/2535	0.775	0.06	19.97	20.70	1.183	0.917	21.5
Right cheek	40	QPSK 108_54	504000/2520	0.872	0.03	19.84	20.70	1.219	**1.063**	21.5
Right cheek-Repeat	40	QPSK 108_54	504000/2520	0.855	0.16	19.84	20.70	1.219	1.042	21.5
Right cheek	40	QPSK 108_54	510000/2550	0.843	0.08	19.88	20.70	1.208	1.018	21.5
Right tilted	40	QPSK 108_54	507000/2535	0.264	0.04	19.97	20.70	1.183	0.312	21.5
Head Test data(100%RB)										
Right cheek	40	QPSK 216_0	507000/2535	0.869	0.01	19.26	19.70	1.107	0.962	21.5
Body worn Test data(Separate 15mm 1RB)										
Front side	40	QPSK 1_1	507000/2535	0.263	-0.02	25.42	25.70	1.067	0.281	21.5
Back side	40	QPSK 1_1	507000/2535	0.546	-0.09	25.42	25.70	1.067	0.582	21.5
Body worn Test data(Separate 15mm 50%RB)										
Front side	40	QPSK 108_54	507000/2535	0.340	0.02	24.67	25.70	1.268	0.431	21.5
Back side	40	QPSK 108_54	507000/2535	0.612	0.01	24.67	25.70	1.268	**0.776**	21.5
Hotspot Test data(Separate 10mm 1RB)										
Front side	40	QPSK 1_1	507000/2535	0.192	0.07	19.96	20.20	1.057	0.203	21.5
Back side	40	QPSK 1_1	507000/2535	0.351	0.06	19.96	20.20	1.057	0.371	21.5
Left side	40	QPSK 1_1	507000/2535	0.556	0.04	19.96	20.20	1.057	**0.588**	21.5
Top side	40	QPSK 1_1	507000/2535	0.025	0.06	19.96	20.20	1.057	0.026	21.5
Hotspot Test data (Separate 10mm 50%RB)										
Front side	40	QPSK 108_54	507000/2535	0.194	0.06	19.18	20.20	1.265	0.245	21.5
Back side	40	QPSK 108_54	507000/2535	0.352	0.03	19.18	20.20	1.265	0.445	21.5
Left side	40	QPSK 108_54	507000/2535	0.336	0.06	19.18	20.20	1.265	0.425	21.5
Top side	40	QPSK 108_54	507000/2535	0.026	0.04	19.18	20.20	1.265	0.033	21.5
Ant4 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	40	QPSK 1_1	507000/2535	0.557	0.14	15.84	17.00	1.306	0.728	21.5
Left tilted	40	QPSK 1_1	507000/2535	0.621	0.15	15.84	17.00	1.306	0.811	21.5
Left tilted	40	QPSK 1_1	504000/2520	0.344	0.15	15.75	17.00	1.334	0.459	21.5
Left tilted	40	QPSK 1_1	510000/2550	0.405	0.13	15.80	17.00	1.318	0.534	21.5
Right cheek	40	QPSK 1_1	507000/2535	0.639	-0.14	15.84	17.00	1.306	**0.835**	21.5
Right cheek	40	QPSK 1_1	504000/2520	0.434	0.20	15.75	17.00	1.334	0.579	21.5
Right cheek	40	QPSK 1_1	510000/2550	0.567	0.12	15.80	17.00	1.318	0.747	21.5
Right tilted	40	QPSK 1_1	507000/2535	0.609	0.07	15.84	17.00	1.306	0.795	21.5
Head Test data(50%RB)										
Left cheek	40	QPSK 108_54	507000/2535	0.351	0.17	15.80	17.00	1.318	0.463	21.5
Left tilted	40	QPSK 108_54	507000/2535	0.382	0.20	15.80	17.00	1.318	0.504	21.5
Right cheek	40	QPSK 108_54	507000/2535	0.482	-0.14	15.80	17.00	1.318	0.635	21.5
Right tilted	40	QPSK 108_54	507000/2535	0.544	0.13	15.80	17.00	1.318	0.717	21.5
Head Test data(100%RB)										
Left tilted	40	QPSK 216_0	507000/2535	0.366	0.18	15.09	16.00	1.233	0.451	21.5
Right cheek	40	QPSK 216_0	507000/2535	0.552	0.15	15.09	16.00	1.233	0.681	21.5
Body worn Test data(Separate 15mm 1RB)										
Front side	40	QPSK 1_1	510000/2550	0.324	-0.10	23.90	25.00	1.288	**0.417**	21.5
Back side	40	QPSK 1_1	510000/2550	0.299	0.04	23.90	25.00	1.288	0.385	21.5
Body worn Test data(Separate 15mm 50%RB)										

Front side	40	QPSK 108_54	507000/2535	0.289	0.07	23.80	25.00	1.318	0.381	21.5
Back side	40	QPSK 108_54	507000/2535	0.284	0.02	23.80	25.00	1.318	0.374	21.5
Hotspot Test data(Separate 10mm 1RB)										
Front side	40	QPSK 1_1	507000/2535	0.132	0.19	15.84	17.00	1.306	0.172	21.5
Back side	40	QPSK 1_1	507000/2535	0.157	0.09	15.84	17.00	1.306	0.205	21.5
Left side	40	QPSK 1_1	507000/2535	0.045	0.01	15.84	17.00	1.306	0.059	21.5
Right side	40	QPSK 1_1	507000/2535	0.046	0.06	15.84	17.00	1.306	0.060	21.5
Top side	40	QPSK 1_1	507000/2535	0.276	0.18	15.84	17.00	1.306	**0.361**	21.5
Hotspot Test data (Separate 10mm 50%RB)										
Front side	40	QPSK 108_54	507000/2535	0.086	0.09	15.80	17.00	1.318	0.113	21.5
Back side	40	QPSK 108_54	507000/2535	0.097	0.09	15.80	17.00	1.318	0.128	21.5
Left side	40	QPSK 108_54	507000/2535	0.031	0.07	15.80	17.00	1.318	0.040	21.5
Right side	40	QPSK 108_54	507000/2535	0.021	0.19	15.80	17.00	1.318	0.028	21.5
Top side	40	QPSK 108_54	507000/2535	0.211	0.17	15.80	17.00	1.318	0.278	21.5
Ant3 Test Record										
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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	40	QPSK 1_1	510000/2550	0.099	0.06	25.19	25.70	1.125	0.112	21.5
Left tilted	40	QPSK 1_1	510000/2550	0.129	0.08	25.19	25.70	1.125	0.145	21.5
Right cheek	40	QPSK 1_1	510000/2550	0.195	0.06	25.19	25.70	1.125	0.219	21.5
Right tilted	40	QPSK 1_1	510000/2550	0.074	0.16	25.19	25.70	1.125	0.083	21.5
Head Test data(50%RB)										
Left cheek	40	QPSK 108_54	510000/2550	0.116	0.01	24.54	25.70	1.306	0.152	21.5
Left tilted	40	QPSK 108_54	510000/2550	0.075	0.18	24.54	25.70	1.306	0.098	21.5
Right cheek	40	QPSK 108_54	510000/2550	0.184	0.07	24.54	25.70	1.306	**0.240**	21.5
Right tilted	40	QPSK 108_54	510000/2550	0.051	0.08	24.54	25.70	1.306	0.067	21.5
Body worn Test data(Separate 15mm 1RB)										
Front side	40	QPSK 1_1	510000/2550	0.469	0.17	25.19	25.70	1.125	0.527	21.5
Back side	40	QPSK 1_1	510000/2550	0.514	-0.19	25.19	25.70	1.125	0.578	21.5
Body worn Test data (Separate 15mm 50%RB)										
Front side	40	QPSK 108_54	510000/2550	0.443	0.05	24.54	25.70	1.306	0.579	21.5
Back side	40	QPSK 108_54	510000/2550	0.517	-0.05	24.54	25.70	1.306	**0.675**	21.5
Hotspot Test data(Separate 10mm 1RB)										
Front side	40	QPSK 1_1	510000/2550	0.247	0.06	18.14	18.70	1.138	0.281	21.5
Back side	40	QPSK 1_1	510000/2550	0.276	0.08	18.14	18.70	1.138	0.314	21.5
Left side	40	QPSK 1_1	510000/2550	0.051	0.03	18.14	18.70	1.138	0.058	21.5
Right side	40	QPSK 1_1	510000/2550	0.137	0.08	18.14	18.70	1.138	0.156	21.5
Bottom side	40	QPSK 1_1	510000/2550	0.363	0.03	18.14	18.70	1.138	0.413	21.5
Hotspot Test data (Separate 10mm 50%RB)										
Front side	40	QPSK 108_54	510000/2550	0.231	0.20	17.90	18.70	1.202	0.278	21.5
Back side	40	QPSK 108_54	510000/2550	0.153	0.12	17.90	18.70	1.202	0.184	21.5
Left side	40	QPSK 108_54	510000/2550	0.048	0.08	17.90	18.70	1.202	0.058	21.5
Right side	40	QPSK 108_54	510000/2550	0.122	0.09	17.90	18.70	1.202	0.147	21.5
Bottom side	40	QPSK 108_54	510000/2550	0.365	-0.08	17.90	18.70	1.202	**0.439**	21.5
Ant6 Test Record										
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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	40	QPSK 1_1	507000/2535	0.166	0.00	21.96	23.50	1.426	0.237	21.5
Left tilted	40	QPSK 1_1	507000/2535	0.003	0.09	21.96	23.50	1.426	0.004	21.5
Right cheek	40	QPSK 1_1	507000/2535	0.467	0.08	21.96	23.50	1.426	**0.666**	21.5
Right tilted	40	QPSK 1_1	507000/2535	0.067	0.03	21.96	23.50	1.426	0.095	21.5
Head Test data(50%RB)										
Left cheek	40	QPSK 108_54	507000/2535	0.187	0.00	21.80	23.50	1.479	0.277	21.5
Left tilted	40	QPSK 108_54	507000/2535	0.148	0.04	21.80	23.50	1.479	0.219	21.5
Right cheek	40	QPSK 108_54	507000/2535	0.412	0.03	21.80	23.50	1.479	0.609	21.5
Right tilted	40	QPSK 108_54	507000/2535	0.099	0.07	21.80	23.50	1.479	0.146	21.5

Body worn Test data(Separate 15mm 1RB)										
Front side	40	QPSK 1_1	507000/2535	0.045	0.12	17.59	19.00	1.384	0.062	21.5
Back side	40	QPSK 1_1	507000/2535	0.021	0.01	17.59	19.00	1.384	0.029	21.5
Body worn Test data (Separate 15mm 50%RB)										
Front side	40	QPSK 108_54	507000/2535	0.020	0.04	17.38	19.00	1.452	0.029	21.5
Back side	40	QPSK 108_54	507000/2535	0.050	0.06	17.38	19.00	1.452	**0.073**	21.5
Hotspot Test data(Separate 10mm 1RB)										
Front side	40	QPSK 1_1	507000/2535	0.102	0.05	17.59	19.00	1.384	0.141	21.5
Back side	40	QPSK 1_1	507000/2535	0.184	0.04	17.59	19.00	1.384	0.255	21.5
Right side	40	QPSK 1_1	507000/2535	0.326	0.16	17.59	19.00	1.384	**0.451**	21.5
Bottom side	40	QPSK 1_1	507000/2535	0.023	0.04	17.59	19.00	1.384	0.032	21.5
Hotspot Test data (Separate 10mm 50%RB)										
Front side	40	QPSK 108_54	507000/2535	0.101	0.06	17.38	19.00	1.452	0.147	21.5
Back side	40	QPSK 108_54	507000/2535	0.172	0.02	17.38	19.00	1.452	0.250	21.5
Right side	40	QPSK 108_54	507000/2535	0.299	0.03	17.38	19.00	1.452	0.434	21.5
Bottom side	40	QPSK 108_54	507000/2535	0.022	0.06	17.38	19.00	1.452	0.033	21.5

Table 26：SAR of 5G NR n7 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Right cheek	504000/2520	0.872	0.855	1.020	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						

8.2.2 SAR Result of 5G NR n38

Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	40	QPSK 1_1	519000/2595	1:1	0.443	0.03	20.41	20.70	1.069	0.474	21.5
Left tilted	40	QPSK 1_1	519000/2595	1:1	0.072	0.07	20.41	20.70	1.069	0.077	21.5
Right cheek	40	QPSK 1_1	519000/2595	1:1	0.907	0.15	20.41	20.70	1.069	0.970	21.5
Right cheek	40	QPSK 1_1	518000/2590	1:1	0.829	0.01	20.31	20.70	1.094	0.907	21.5
Right cheek	40	QPSK 1_1	520000/2600	1:1	0.759	0.03	20.30	20.70	1.096	0.832	21.5
Right tilted	40	QPSK 1_1	519000/2595	1:1	0.132	0.08	20.41	20.70	1.069	0.141	21.5
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	519000/2595	1:1	0.471	0.07	20.25	20.70	1.109	0.522	21.5
Left tilted	40	QPSK 50_28	519000/2595	1:1	0.081	0.04	20.25	20.70	1.109	0.089	21.5
Right cheek	40	QPSK 50_28	519000/2595	1:1	0.913	0.20	20.25	20.70	1.109	**1.013**	21.5
Right cheek-Repeat	40	QPSK 50_28	519000/2595	1:1	0.911	0.08	20.25	20.70	1.109	1.010	21.5
Right cheek	40	QPSK 50_28	518000/2590	1:1	0.817	0.03	20.23	20.70	1.114	0.910	21.5
Right cheek	40	QPSK 50_28	520000/2600	1:1	0.881	0.03	20.23	20.70	1.114	0.982	21.5
Right tilted	40	QPSK 50_28	519000/2595	1:1	0.175	-0.08	20.25	20.70	1.109	0.194	21.5
Head Test data(100%RB)											
Right cheek	40	QPSK 50_28	519000/2595	1:1	0.735	0.04	19.15	19.70	1.135	0.834	21.5
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.382	0.04	25.49	25.70	1.050	0.401	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.680	0.01	25.49	25.70	1.050	**0.714**	21.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.376	0.02	25.31	25.70	1.094	0.411	21.5
Back side	40	QPSK 50_28	519000/2595	1:1	0.566	0.16	25.31	25.70	1.094	0.619	21.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.159	-0.07	20.03	20.20	1.040	0.165	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.271	-0.19	20.03	20.20	1.040	0.282	21.5
Left side	40	QPSK 1_1	519000/2595	1:1	0.269	0.00	20.03	20.20	1.040	0.280	21.5
Top side	40	QPSK 1_1	519000/2595	1:1	0.016	-0.17	20.03	20.20	1.040	0.017	21.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.156	0.03	19.97	20.20	1.054	0.164	21.5
Back side	40	QPSK 50_28	519000/2595	1:1	0.323	-0.15	19.97	20.20	1.054	**0.341**	21.5
Left side	40	QPSK 50_28	519000/2595	1:1	0.320	-0.01	19.97	20.20	1.054	0.337	21.5
Top side	40	QPSK 50_28	519000/2595	1:1	0.013	0.09	19.97	20.20	1.054	0.013	21.5
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	40	QPSK 1_1	519000/2595	1:1	0.207	0.20	25.39	25.70	1.074	0.222	21.5
Left tilted	40	QPSK 1_1	519000/2595	1:1	0.169	0.13	25.39	25.70	1.074	0.182	21.5
Right cheek	40	QPSK 1_1	519000/2595	1:1	0.228	0.20	25.39	25.70	1.074	**0.245**	21.5
Right tilted	40	QPSK 1_1	519000/2595	1:1	0.097	0.14	25.39	25.70	1.074	0.104	21.5
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	519000/2595	1:1	0.172	0.07	25.22	25.70	1.117	0.192	21.5
Left tilted	40	QPSK 50_28	519000/2595	1:1	0.169	0.08	25.22	25.70	1.117	0.189	21.5
Right cheek	40	QPSK 50_28	519000/2595	1:1	0.219	0.05	25.22	25.70	1.117	0.245	21.5
Right tilted	40	QPSK 50_28	519000/2595	1:1	0.089	0.08	25.22	25.70	1.117	0.100	21.5
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.414	0.06	25.39	25.70	1.074	0.445	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.546	0.19	25.39	25.70	1.074	**0.586**	21.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.382	0.09	25.22	25.70	1.117	0.427	21.5
Back side	40	QPSK 50_28	519000/2595	1:1	0.516	-0.15	25.22	25.70	1.117	0.576	21.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.225	0.08	17.75	18.70	1.245	0.280	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.268	-0.04	17.75	18.70	1.245	0.334	21.5
Left side	40	QPSK 1_1	519000/2595	1:1	0.064	0.19	17.75	18.70	1.245	0.080	21.5
Right side	40	QPSK 1_1	519000/2595	1:1	0.112	0.03	17.75	18.70	1.245	0.139	21.5

Bottom side	40	QPSK 1_1	519000/2595	1:1	0.337	0.03	17.75	18.70	1.245	0.419	21.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.215	0.05	17.58	18.70	1.294	0.278	21.5
Back side	40	QPSK 50_28	519000/2595	1:1	0.279	0.09	17.58	18.70	1.294	0.361	21.5
Left side	40	QPSK 50_28	519000/2595	1:1	0.064	0.08	17.58	18.70	1.294	0.083	21.5
Right side	40	QPSK 50_28	519000/2595	1:1	0.122	0.02	17.58	18.70	1.294	0.158	21.5
Bottom side	40	QPSK 50_28	519000/2595	1:1	0.342	-0.03	17.58	18.70	1.294	**0.443**	21.5
Ant4 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	40	QPSK 1_1	519000/2595	1:1	0.437	0.00	15.45	16.50	1.274	0.557	21.5
Left tilted	40	QPSK 1_1	519000/2595	1:1	0.492	0.11	15.45	16.50	1.274	0.627	21.5
Right cheek	40	QPSK 1_1	519000/2595	1:1	0.502	0.07	15.45	16.50	1.274	0.639	21.5
Right tilted	40	QPSK 1_1	519000/2595	1:1	0.722	0.02	15.45	16.50	1.274	0.919	21.5
Right tilted	40	QPSK 1_1	518000/2590	1:1	0.699	-0.01	15.32	16.50	1.312	0.917	21.5
Right tilted	40	QPSK 1_53	520000/2600	1:1	0.689	0.02	15.45	16.50	1.274	0.877	21.5
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	518000/2590	1:1	0.345	0.01	15.38	16.50	1.294	0.446	21.5
Left tilted	40	QPSK 50_28	518000/2590	1:1	0.430	0.01	15.38	16.50	1.294	0.557	21.5
Right cheek	40	QPSK 50_28	518000/2590	1:1	0.519	-0.10	15.38	16.50	1.294	0.672	21.5
Right tilted	40	QPSK 50_28	518000/2590	1:1	0.666	-0.02	15.38	16.50	1.294	0.862	21.5
Right tilted	40	QPSK 50_28	519000/2595	1:1	0.680	0.07	15.37	16.50	1.297	0.882	21.5
Right tilted	40	QPSK 50_28	520000/2600	1:1	0.722	0.04	15.30	16.50	1.318	**0.952**	21.5
Head Test data(100%RB)											
Right tilted	40	QPSK 50_28	520000/2600	1:1	0.629	0.11	14.28	15.50	1.324	0.833	21.5
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.049	0.14	23.59	24.50	1.233	0.060	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.471	0.03	23.59	24.50	1.233	**0.581**	21.5
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	518000/2590	1:1	0.049	0.14	23.57	24.50	1.239	0.060	21.5
Back side	40	QPSK 50_28	518000/2590	1:1	0.353	0.02	23.57	24.50	1.239	0.437	21.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.049	0.14	15.45	16.50	1.274	0.062	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.057	0.01	15.45	16.50	1.274	0.073	21.5
Left side	40	QPSK 1_1	519000/2595	1:1	0.035	0.11	15.45	16.50	1.274	0.045	21.5
Right side	40	QPSK 1_1	519000/2595	1:1	0.025	0.07	15.45	16.50	1.274	0.032	21.5
Top side	40	QPSK 1_1	519000/2595	1:1	0.292	0.08	15.45	16.50	1.274	**0.372**	21.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	518000/2590	1:1			15.38	16.50	1.294	0.000	21.5
Back side	40	QPSK 50_28	518000/2590	1:1	0.125	0.00	15.38	16.50	1.294	0.162	21.5
Left side	40	QPSK 50_28	518000/2590	1:1	0.035	0.11	15.38	16.50	1.294	0.045	21.5
Right side	40	QPSK 50_28	518000/2590	1:1	0.022	0.06	15.38	16.50	1.294	0.029	21.5
Top side	40	QPSK 50_28	518000/2590	1:1	0.275	-0.01	15.38	16.50	1.294	0.356	21.5
Ant6 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	40	QPSK 1_1	519000/2595	1:1	0.331	0.03	23.09	24.00	1.233	0.408	21.5
Left tilted	40	QPSK 1_1	519000/2595	1:1	0.070	0.07	23.09	24.00	1.233	0.086	21.5
Right cheek	40	QPSK 1_1	519000/2595	1:1	0.484	0.07	23.09	24.00	1.233	**0.597**	21.5
Right tilted	40	QPSK 1_1	519000/2595	1:1	0.072	0.03	23.09	24.00	1.233	0.088	21.5
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	520000/2600	1:1	0.274	0.08	23.00	24.00	1.259	0.345	21.5
Left tilted	40	QPSK 50_28	520000/2600	1:1	0.049	0.03	23.00	24.00	1.259	0.061	21.5
Right cheek	40	QPSK 50_28	520000/2600	1:1	0.390	0.18	23.00	24.00	1.259	0.491	21.5
Right tilted	40	QPSK 50_28	520000/2600	1:1	0.069	0.01	23.00	24.00	1.259	0.086	21.5
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.057	0.11	16.38	17.50	1.294	0.073	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.060	0.01	16.38	17.50	1.294	0.077	21.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	520000/2600	1:1	0.050	0.15	16.31	17.50	1.315	0.066	21.5

Back side	40	QPSK 50_28	520000/2600	1:1	0.080	0.06	16.31	17.50	1.315	**0.105**	21.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.078	0.00	16.38	17.50	1.294	0.101	21.5
Back side	40	QPSK 1_1	519000/2595	1:1	0.144	0.09	16.38	17.50	1.294	0.186	21.5
Right side	40	QPSK 1_1	519000/2595	1:1	0.223	0.01	16.38	17.50	1.294	0.289	21.5
Bottom side	40	QPSK 1_1	519000/2595	1:1	0.026	0.05	16.38	17.50	1.294	0.034	21.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.053	0.11	16.31	17.50	1.315	0.069	21.5
Back side	40	QPSK 50_28	519000/2595	1:1	0.077	0.06	16.31	17.50	1.315	0.101	21.5
Right side	40	QPSK 50_28	519000/2595	1:1	0.241	0.05	16.31	17.50	1.315	**0.317**	21.5
Bottom side	40	QPSK 50_28	519000/2595	1:1	0.024	0.10	16.31	17.50	1.315	0.032	21.5

Table 27：SAR of 5G NR n38 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)
Right cheek	519000/2595	0.913	0.911	1.002	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						

8.2.3 SAR Result of 5G NR n41

Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	523302/2616.51	1:1	0.357	0.06	19.39	19.70	1.074	0.383	22
Left tilted	100	QPSK 1_1	523302/2616.51	1:1	0.073	0.02	19.39	19.70	1.074	0.078	22
Right cheek	100	QPSK 1_1	523302/2616.51	1:1	0.544	0.09	19.39	19.70	1.074	**0.584**	22
Right tilted	100	QPSK 1_1	523302/2616.51	1:1	0.112	0.01	19.39	19.70	1.074	0.120	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	523302/2616.51	1:1	0.414	0.07	19.33	19.70	1.089	0.451	22
Left tilted	100	QPSK 135_69	523302/2616.51	1:1	0.090	0.04	19.33	19.70	1.089	0.098	22
Right cheek	100	QPSK 135_69	523302/2616.51	1:1	0.435	0.03	19.33	19.70	1.089	0.474	22
Right tilted	100	QPSK 135_69	523302/2616.51	1:1	0.208	0.08	19.33	19.70	1.089	0.226	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	523302/2616.51	1:1	0.366	0.06	25.45	25.70	1.059	0.388	22
Back side	100	QPSK 1_1	523302/2616.51	1:1	0.607	-0.20	25.45	25.70	1.059	**0.643**	22
Back side	100	QPSK 1_271	509202/2546.01	1:1	0.544	-0.09	25.44	25.70	1.062	0.578	22
Back side	100	QPSK 1_137	513900/2569.5	1:1	0.467	0.06	25.41	25.70	1.069	0.499	22
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.512	-0.20	25.34	25.70	1.086	0.556	22
Back side	100	QPSK 1_137	528000/2640	1:1	0.436	-0.09	25.34	25.70	1.086	0.474	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.405	0.09	25.38	25.70	1.076	0.436	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.569	-0.09	25.38	25.70	1.076	0.613	22
Back side	100	QPSK 135_69	509202/2546.01	1:1	0.561	-0.07	25.32	25.70	1.091	0.612	22
Back side	100	QPSK 135_69	513900/2569.5	1:1	0.570	0.01	25.33	25.70	1.089	0.621	22
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.558	0.11	25.32	25.70	1.091	0.609	22
Back side	100	QPSK 135_69	528000/2640	1:1	0.527	0.08	25.22	25.70	1.117	0.589	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	523302/2616.51	1:1	0.187	0.06	19.39	19.70	1.074	0.201	22
Back side	100	QPSK 1_1	523302/2616.51	1:1	0.310	0.03	19.39	19.70	1.074	0.333	22
Left side	100	QPSK 1_1	523302/2616.51	1:1	0.287	0.08	19.39	19.70	1.074	0.308	22
Top side	100	QPSK 1_1	523302/2616.51	1:1	0.012	-0.05	19.39	19.70	1.074	0.013	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.215	0.14	19.33	19.70	1.089	0.234	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.275	0.14	19.33	19.70	1.089	0.299	22
Left side	100	QPSK 135_69	523302/2616.51	1:1	0.385	-0.06	19.33	19.70	1.089	**0.419**	22
Top side	100	QPSK 135_69	523302/2616.51	1:1	0.025	0.15	19.33	19.70	1.089	0.027	22
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.470	0.04	14.97	16.50	1.422	0.668	22
Left cheek	100	QPSK 1_271	509202/2546.01	1:1	0.369	0.12	14.87	16.50	1.455	0.537	22
Left cheek	100	QPSK 1_271	513900/2569.5	1:1	0.317	0.07	14.90	16.50	1.445	0.458	22
Left cheek	100	QPSK 1_271	523302/2616.51	1:1	0.257	0.12	14.96	16.50	1.426	0.366	22
Left cheek	100	QPSK 1_137	528000/2640	1:1	0.313	0.11	14.81	16.50	1.476	0.462	22
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.587	0.03	14.97	16.50	1.422	0.835	22
Left tilted	100	QPSK 1_271	509202/2546.01	1:1	0.445	0.13	14.87	16.50	1.455	0.648	22
Left tilted	100	QPSK 1_271	513900/2569.5	1:1	0.399	0.18	14.90	16.50	1.445	0.577	22
Left tilted	100	QPSK 1_271	523302/2616.51	1:1	0.320	0.04	14.96	16.50	1.426	0.456	22
Left tilted	100	QPSK 1_137	528000/2640	1:1	0.356	-0.05	14.81	16.50	1.476	0.525	22
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.564	0.03	14.97	16.50	1.422	0.802	22
Right cheek	100	QPSK 1_271	509202/2546.01	1:1	0.496	0.12	14.87	16.50	1.455	0.722	22
Right cheek	100	QPSK 1_271	513900/2569.5	1:1	0.520	0.00	14.90	16.50	1.445	0.752	22
Right cheek	100	QPSK 1_271	523302/2616.51	1:1	0.458	0.09	14.96	16.50	1.426	0.653	22
Right cheek	100	QPSK 1_137	528000/2640	1:1	0.468	0.10	14.81	16.50	1.476	0.691	22
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.656	0.17	14.97	16.50	1.422	0.933	22
Right tilted	100	QPSK 1_271	509202/2546.01	1:1	0.630	0.03	14.87	16.50	1.455	0.917	22
Right tilted	100	QPSK 1_271	513900/2569.5	1:1	0.643	0.02	14.90	16.50	1.445	0.929	22
Right tilted	100	QPSK 1_271	523302/2616.51	1:1	0.676	0.07	14.96	16.50	1.426	0.964	22
Right tilted	100	QPSK 1_137	528000/2640	1:1	0.621	0.07	14.81	16.50	1.476	0.916	22

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Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	523302/2616.51	1:1	0.470	0.03	14.77	16.50	1.489	0.700	22
Left cheek	100	QPSK 135_69	509202/2546.01	1:1	0.387	0.07	14.72	16.50	1.507	0.583	22
Left cheek	100	QPSK 135_69	513900/2569.5	1:1	0.406	0.02	14.71	16.50	1.510	0.613	22
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.345	0.00	14.74	16.50	1.500	0.517	22
Left cheek	100	QPSK 135_69	528000/2640	1:1	0.294	0.04	14.76	16.50	1.493	0.439	22
Left tilted	100	QPSK 135_69	523302/2616.51	1:1	0.574	0.20	14.77	16.50	1.489	0.855	22
Left tilted	100	QPSK 135_69	509202/2546.01	1:1	0.499	0.16	14.72	16.50	1.507	0.752	22
Left tilted	100	QPSK 135_69	513900/2569.5	1:1	0.462	0.11	14.71	16.50	1.510	0.698	22
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.466	0.07	14.74	16.50	1.500	0.699	22
Left tilted	100	QPSK 135_69	528000/2640	1:1	0.369	0.11	14.76	16.50	1.493	0.551	22
Right cheek	100	QPSK 135_69	523302/2616.51	1:1	0.553	0.03	14.77	16.50	1.489	0.824	22
Right cheek	100	QPSK 135_69	509202/2546.01	1:1	0.410	0.09	14.72	16.50	1.507	0.618	22
Right cheek	100	QPSK 135_69	513900/2569.5	1:1	0.492	0.10	14.71	16.50	1.510	0.743	22
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.491	0.04	14.74	16.50	1.500	0.736	22
Right cheek	100	QPSK 135_69	528000/2640	1:1	0.464	0.12	14.76	16.50	1.493	0.693	22
Right tilted	100	QPSK 135_69	523302/2616.51	1:1	0.671	0.18	14.77	16.50	1.489	0.999	22
Right tilted	100	QPSK 135_69	509202/2546.01	1:1	0.629	0.19	14.72	16.50	1.507	0.948	22
Right tilted	100	QPSK 135_69	513900/2569.5	1:1	0.648	0.16	14.71	16.50	1.510	0.979	22
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.657	0.08	14.74	16.50	1.500	0.985	22
Right tilted	100	QPSK 135_69	528000/2640	1:1	0.682	0.19	14.76	16.50	1.493	**1.018**	22
Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	518598/2592.99	1:1	0.344	0.12	13.75	15.50	1.496	0.515	22
Left tilted	100	QPSK 270_0	518598/2592.99	1:1	0.403	0.04	13.75	15.50	1.496	0.603	22
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.539	0.11	13.75	15.50	1.496	0.806	22
Right tilted	100	QPSK 270_0	518598/2592.99	1:1	0.566	0.19	13.75	15.50	1.496	0.847	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.384	0.06	23.58	25.00	1.387	0.533	22
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.246	0.02	23.58	25.00	1.387	0.341	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.444	0.09	23.43	24.00	1.140	0.506	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.520	0/08	23.43	24.00	1.140	**0.593**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.089	0.09	17.50	18.00	1.122	0.100	22
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.074	0.03	17.50	18.00	1.122	0.083	22
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.027	0.05	17.50	18.00	1.122	0.030	22
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.043	0.03	17.50	18.00	1.122	0.048	22
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.179	-0.03	17.50	18.00	1.122	0.201	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.089	0.05	17.37	18.00	1.156	0.103	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.109	0.03	17.37	18.00	1.156	0.126	22
Left side	100	QPSK 135_69	523302/2616.51	1:1	0.030	0.05	17.37	18.00	1.156	0.035	22
Right side	100	QPSK 135_69	523302/2616.51	1:1	0.027	0.12	17.37	18.00	1.156	0.031	22
Top side	100	QPSK 135_69	523302/2616.51	1:1	0.202	0.13	17.37	18.00	1.156	**0.234**	22
Ant3 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	523302/2616.51	1:1	0.161	0.06	25.61	25.70	1.021	0.164	22
Left tilted	100	QPSK 1_1	523302/2616.51	1:1	0.139	0.06	25.61	25.70	1.021	0.142	22
Right cheek	100	QPSK 1_1	523302/2616.51	1:1	0.194	0.09	25.61	25.70	1.021	0.198	22
Right tilted	100	QPSK 1_1	523302/2616.51	1:1	0.098	0.10	25.61	25.70	1.021	0.100	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	523302/2616.51	1:1	0.157	0.00	25.45	25.70	1.059	0.166	22
Left tilted	100	QPSK 135_69	523302/2616.51	1:1	0.143	0.04	25.45	25.70	1.059	0.151	22
Right cheek	100	QPSK 135_69	523302/2616.51	1:1	0.223	0.03	25.45	25.70	1.059	**0.236**	22
Right tilted	100	QPSK 135_69	523302/2616.51	1:1	0.095	0.99	25.45	25.70	1.059	0.101	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	523302/2616.51	1:1	0.506	0.05	25.61	25.70	1.021	0.517	22
Back side	100	QPSK 1_1	523302/2616.51	1:1	0.465	-0.09	25.61	25.70	1.021	0.475	22
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.523	0.08	25.45	25.70	1.059	0.554	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.668	0.01	25.45	25.70	1.059	0.708	22
Back side	100	QPSK 135_69	509202/2546.01	1:1	0.669	0.02	25.37	25.70	1.079	0.722	22
Back side	100	QPSK 135_69	513900/2569.5	1:1	0.758	0.01	25.33	25.70	1.089	0.825	22

Back side	100	QPSK 135_69	518598/2592.99	1:1	0.568	0.01	25.25	25.70	1.109	0.630	22
Back side	100	QPSK 135_69	528000/2640	1:1	0.907	0.08	25.33	25.70	1.089	**0.988**	22
Back side-Repeated	100	QPSK 135_69	528000/2640	1:1	0.875	0.01	25.33	25.70	1.089	0.953	22
Body worn Test data (Separate 15mm 100%RB)											
Back side	100	QPSK 270_0	528000/2640	1:1	0.527	0.09	24.42	24.70	1.067	0.562	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	523302/2616.51	1:1	0.379	0.08	19.57	19.70	1.030	0.391	22
Back side	100	QPSK 1_1	523302/2616.51	1:1	0.248	-0.05	19.57	19.70	1.030	0.256	22
Left side	100	QPSK 1_1	523302/2616.51	1:1	0.015	0.09	19.57	19.70	1.030	0.016	22
Right side	100	QPSK 1_1	523302/2616.51	1:1	0.206	0.09	19.57	19.70	1.030	0.212	22
Bottom side	100	QPSK 1_1	523302/2616.51	1:1	0.303	0.11	19.57	19.70	1.030	0.312	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.351	0.05	19.29	19.70	1.099	0.386	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.386	0.01	19.29	19.70	1.099	**0.424**	22
Left side	100	QPSK 135_69	523302/2616.51	1:1	0.013	0.00	19.29	19.70	1.099	0.014	22
Right side	100	QPSK 135_69	523302/2616.51	1:1	0.105	0.05	19.29	19.70	1.099	0.115	22
Bottom side	100	QPSK 135_69	523302/2616.51	1:1	0.336	0.20	19.29	19.70	1.099	0.369	22
Ant6 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	513900/2569.5	1:1	0.219	0.09	23.04	24.00	1.247	0.273	22
Left tilted	100	QPSK 1_1	513900/2569.5	1:1	0.074	0.04	23.04	24.00	1.247	0.092	22
Right cheek	100	QPSK 1_1	513900/2569.5	1:1	0.357	0.08	23.04	24.00	1.247	0.445	22
Right tilted	100	QPSK 1_1	513900/2569.5	1:1	0.077	0.09	23.04	24.00	1.247	0.096	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.246	0.01	22.90	24.00	1.288	0.317	22
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.051	0.03	22.90	24.00	1.288	0.065	22
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.698	0.02	22.90	24.00	1.288	**0.899**	22
Right cheek	100	QPSK 135_69	509202/2546.01	1:1	0.487	0.06	22.88	24.00	1.294	0.630	22
Right cheek	100	QPSK 135_69	513900/2569.5	1:1	0.638	0.06	22.79	24.00	1.321	0.843	22
Right cheek	100	QPSK 135_69	523302/2616.51	1:1	0.610	0.07	22.84	24.00	1.306	0.797	22
Right cheek	100	QPSK 135_69	528000/2640	1:1	0.594	0.06	22.69	24.00	1.352	0.803	22
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.116	0.07	22.90	24.00	1.288	0.149	22
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.484	0.10	21.92	23.00	1.282	0.621	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	513900/2569.5	1:1	0.170	0.01	18.47	19.50	1.268	0.216	22
Back side	100	QPSK 1_1	513900/2569.5	1:1	0.087	0.06	18.47	19.50	1.268	0.110	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.173	0.04	18.33	19.50	1.309	0.226	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.254	0.09	18.33	19.50	1.309	**0.333**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	513900/2569.5	1:1	0.102	0.03	18.47	19.50	1.268	0.129	22
Back side	100	QPSK 1_1	513900/2569.5	1:1	0.197	-0.03	18.47	19.50	1.268	0.250	22
Right side	100	QPSK 1_1	513900/2569.5	1:1	0.354	-0.12	18.47	19.50	1.268	**0.449**	22
Bottom side	100	QPSK 1_1	513900/2569.5	1:1	0.025	0.01	18.47	19.50	1.268	0.032	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	523302/2616.51	1:1	0.142	0.04	18.33	19.50	1.309	0.186	22
Back side	100	QPSK 135_69	523302/2616.51	1:1	0.229	0.08	18.33	19.50	1.309	0.300	22
Right side	100	QPSK 135_69	523302/2616.51	1:1	0.341	0.19	18.33	19.50	1.309	0.446	22
Bottom side	100	QPSK 135_69	523302/2616.51	1:1	0.049	0.02	18.33	19.50	1.309	0.065	22

Table 28：SAR of 5G NR n41 for Head and Body.

Test Position	**Channel/ Frequency (MHz)**	**Measured SAR (1g)**	**1st Repeated SAR (1g)**	**Ratio**	**2nd Repeated SAR (1g)**	**3rd Repeated SAR (1g)**
Back side	528000/2640	0.907	0.875	1.037	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						

8.2.4 SAR Result of 5G NR n77

Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.252	0.07	16.82	17.00	1.042	0.263	21.9
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.155	0.06	16.82	17.00	1.042	0.162	21.9
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.851	0.03	16.82	17.00	1.042	**0.887**	21.9
Right cheek-Repeat	100	QPSK 1_1	633334/3500	1:1	0.842	0.01	16.82	17.00	1.042	0.878	21.9
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.400	0.01	16.82	17.00	1.042	0.417	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.182	0.08	16.59	17.00	1.099	0.200	21.9
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.139	0.05	16.59	17.00	1.099	0.153	21.9
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.663	0.02	16.59	17.00	1.099	0.729	21.9
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.317	0.08	16.59	17.00	1.099	0.348	21.9
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.604	0.04	15.53	16.00	1.114	0.673	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.119	0.00	22.90	23.00	1.023	0.122	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.071	0.08	22.90	23.00	1.023	0.072	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.147	-0.01	22.65	23.00	1.084	**0.159**	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.063	-0.08	22.65	23.00	1.084	0.068	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.116	-0.01	16.82	17.00	1.042	**0.121**	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.079	0.00	16.82	17.00	1.042	0.082	21.9
Left side	100	QPSK 1_1	633334/3500	1:1	0.058	0.03	16.82	17.00	1.042	0.060	21.9
Top side	100	QPSK 1_1	633334/3500	1:1	0.008	0.01	16.82	17.00	1.042	0.008	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.097	0.00	16.59	17.00	1.099	0.106	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.055	0.00	16.59	17.00	1.099	0.060	21.9
Left side	100	QPSK 135_69	633334/3500	1:1	0.047	0.14	16.59	17.00	1.099	0.051	21.9
Top side	100	QPSK 135_69	633334/3500	1:1	0.009	0.09	16.59	17.00	1.099	0.009	21.9
Ant10 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.456	0.02	15.98	16.70	1.180	0.538	21.9
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.441	0.02	15.98	16.70	1.180	0.521	21.9
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.751	-0.12	15.98	16.70	1.180	0.886	21.9
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.753	-0.01	15.98	16.70	1.180	0.889	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.352	0.20	15.95	16.70	1.189	0.418	21.9
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.255	-0.03	15.95	16.70	1.189	0.303	21.9
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.779	0.12	15.95	16.70	1.189	**0.926**	21.9
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.547	0.09	15.95	16.70	1.189	0.650	21.9
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.569	-0.07	14.85	16.70	1.531	0.871	21.9
Right tilted	100	QPSK 270_0	633334/3500	1:1	0.554	0.06	14.85	16.70	1.531	0.848	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.296	0.11	25.06	25.70	1.159	0.343	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.631	-0.02	25.06	25.70	1.159	**0.731**	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.294	0.05	25.01	25.70	1.172	0.345	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.621	0.05	25.01	25.70	1.172	0.728	21.9
Body worn Test data(Separate 15mm 100%RB)											
Back side	100	QPSK 270_0	633334/3500	1:1	0.558	-0.02	23.92	24.70	1.197	0.668	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.067	-0.17	15.98	16.70	1.180	0.079	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.139	0.02	15.98	16.70	1.180	**0.164**	21.9
Left side	100	QPSK 1_1	633334/3500	1:1	0.044	0.15	15.98	16.70	1.180	0.052	21.9

Right side	100	QPSK 1_1	633334/3500	1:1	0.011	-0.06	15.98	16.70	1.180	0.013	21.9
Top side	100	QPSK 1_1	633334/3500	1:1	0.138	0.04	15.98	16.70	1.180	0.163	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.059	0.00	15.95	16.70	1.189	0.070	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.130	-0.17	15.95	16.70	1.189	0.155	21.9
Left side	100	QPSK 135_69	633334/3500	1:1	0.030	0.06	15.95	16.70	1.189	0.035	21.9
Right side	100	QPSK 135_69	633334/3500	1:1	0.010	0.00	15.95	16.70	1.189	0.011	21.9
Top side	100	QPSK 135_69	633334/3500	1:1	0.116	0.02	15.95	16.70	1.189	0.138	21.9
Ant11 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.190	0.14	19.10	19.20	1.023	0.194	21.9
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.160	0.09	19.10	19.20	1.023	0.164	21.9
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.666	0.04	19.10	19.20	1.023	0.682	21.9
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.424	0.07	19.10	19.20	1.023	0.434	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.272	0.06	18.79	19.20	1.099	0.299	21.9
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.201	0.01	18.79	19.20	1.099	0.221	21.9
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.883	-0.08	18.79	19.20	1.099	**0.970**	21.9
Right cheek-Repeat	100	QPSK 135_69	633334/3500	1:1	0.821	0.05	18.79	19.20	1.099	0.902	21.9
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.548	0.07	18.79	19.20	1.099	0.602	21.9
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.745	0.05	17.78	18.20	1.102	0.821	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.232	0.00	25.64	25.70	1.014	0.235	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.529	-0.06	25.64	25.70	1.014	0.536	21.9
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.228	0.01	25.34	25.70	1.086	0.248	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.502	-0.05	25.34	25.70	1.086	**0.545**	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.104	0.09	18.54	18.70	1.038	0.108	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.225	-0.04	18.54	18.70	1.038	0.233	21.9
Left side	100	QPSK 1_1	633334/3500	1:1	0.075	0.00	18.54	18.70	1.038	0.078	21.9
Right side	100	QPSK 1_1	633334/3500	1:1	0.001	0.00	18.54	18.70	1.038	0.001	21.9
Top side	100	QPSK 1_1	633334/3500	1:1	0.047	0.00	18.54	18.70	1.038	0.049	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.114	0.05	18.18	18.70	1.127	0.129	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.235	-0.08	18.18	18.70	1.127	**0.265**	21.9
Left side	100	QPSK 135_69	633334/3500	1:1	0.082	0.00	18.18	18.70	1.127	0.093	21.9
Right side	100	QPSK 135_69	633334/3500	1:1	0.001	-0.14	18.18	18.70	1.127	0.001	21.9
Top side	100	QPSK 135_69	633334/3500	1:1	0.059	0.02	18.18	18.70	1.127	0.067	21.9
Ant6 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.084	0.00	20.37	21.50	1.297	0.108	21.9
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.068	0.05	20.37	21.50	1.297	0.089	21.9
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.297	0.00	20.37	21.50	1.297	0.385	21.9
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.049	0.00	20.37	21.50	1.297	0.063	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.071	0.00	20.15	21.50	1.365	0.097	21.9
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.050	0.00	20.15	21.50	1.365	0.068	21.9
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.285	0.00	20.15	21.50	1.365	**0.389**	21.9
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.047	0.00	20.15	21.50	1.365	0.064	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.015	0.05	17.35	18.50	1.303	0.020	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.034	0.05	17.35	18.50	1.303	0.044	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.011	0.09	17.07	18.50	1.390	0.015	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.054	-0.02	17.07	18.50	1.390	**0.075**	21.9
Hotspot Test data(Separate 10mm 1RB)											

Front side	100	QPSK 1_1	633334/3500	1:1	0.129	0.03	17.35	18.50	1.303	0.168	21.9
Back side	100	QPSK 1_1	633334/3500	1:1	0.171	-0.07	17.35	18.50	1.303	0.223	21.9
Right side	100	QPSK 1_1	633334/3500	1:1	0.221	0.06	17.35	18.50	1.303	0.288	21.9
Bottom side	100	QPSK 1_1	633334/3500	1:1	0.021	0.07	17.35	18.50	1.303	0.027	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.273	0.05	17.07	18.50	1.390	**0.379**	21.9
Back side	100	QPSK 135_69	633334/3500	1:1	0.195	-0.16	17.07	18.50	1.390	0.271	21.9
Right side	100	QPSK 135_69	633334/3500	1:1	0.244	0.01	17.07	18.50	1.390	0.339	21.9
Bottom side	100	QPSK 135_69	633334/3500	1:1	0.021	0.06	17.07	18.50	1.390	0.029	21.9

Table 29：SAR of 5G NR n77(3450MHz-3550MHz) for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Right cheek	633334/3500	0.851	0.842	1.011	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 (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Right cheek	633334/3500	0.883	0.821	1.076	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						

Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.291	0.00	16.83	17.00	1.040	0.303	21.9
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.189	0.05	16.83	17.00	1.040	0.197	21.9
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.791	0.08	16.83	17.00	1.040	0.823	21.9
Right cheek	100	QPSK 1_1	652400/3786	1:1	0.789	0.09	16.29	17.00	1.178	**0.929**	21.9
Right cheek	100	QPSK 1_1	654800/3822	1:1	0.742	0.06	16.15	17.00	1.216	0.902	21.9
Right cheek	100	QPSK 1_1	657200/3858	1:1	0.676	-0.04	16.14	17.00	1.219	0.824	21.9
Right cheek	100	QPSK 1_1	659600/3894	1:1	0.625	0.03	16.14	17.00	1.219	0.762	21.9
Right cheek	100	QPSK 1_1	662000/3930	1:1	0.607	0.08	16.11	17.00	1.227	0.745	21.9
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.659	-0.02	16.83	17.00	1.040	0.685	21.9
Right tilted	100	QPSK 1_1	652400/3786	1:1	0.480	-0.09	16.29	17.00	1.178	0.565	21.9
Right tilted	100	QPSK 1_1	654800/3822	1:1	0.437	0.04	16.15	17.00	1.216	0.531	21.9
Right tilted	100	QPSK 1_1	657200/3858	1:1	0.416	0.06	16.14	17.00	1.219	0.507	21.9
Right tilted	100	QPSK 1_1	659600/3894	1:1	0.389	0.14	16.07	17.00	1.239	0.482	21.9
Right tilted	100	QPSK 1_1	662000/3930	1:1	0.368	0.05	16.11	17.00	1.227	0.452	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	654800/3822	1:1	0.286	0.05	16.16	17.00	1.213	0.347	21.9
Left tilted	100	QPSK 135_69	654800/3822	1:1	0.115	0.01	16.16	17.00	1.213	0.140	21.9
Right cheek	100	QPSK 135_69	654800/3822	1:1	0.650	0.06	16.16	17.00	1.213	0.789	21.9
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.595	-0.02	16.07	17.00	1.239	0.737	21.9
Right cheek	100	QPSK 135_69	652400/3786	1:1	0.539	0.01	16.01	17.00	1.256	0.677	21.9
Right cheek	100	QPSK 135_69	657200/3858	1:1	0.538	0.15	16.09	17.00	1.233	0.663	21.9
Right cheek	100	QPSK 135_69	659600/3894	1:1	0.594	0.06	16.07	17.00	1.239	0.736	21.9
Right cheek	100	QPSK 135_69	662000/3930	1:1	0.412	0.10	16.16	17.00	1.213	0.500	21.9
Right tilted	100	QPSK 135_69	654800/3822	1:1	0.365	0.06	16.16	17.00	1.213	0.443	21.9

Right tilted	100	QPSK 135_69	650000/3750	1:1	0.512	0.02	16.07	17.00	1.239	0.634	21.9
Right tilted	100	QPSK 135_69	652400/3786	1:1	0.429	0.04	16.01	17.00	1.256	0.539	21.9
Right tilted	100	QPSK 135_69	657200/3858	1:1	0.315	0.01	16.09	17.00	1.233	0.388	21.9
Right tilted	100	QPSK 135_69	659600/3894	1:1	0.323	0.11	16.07	17.00	1.239	0.400	21.9
Right tilted	100	QPSK 135_69	662000/3930	1:1	0.264	0.04	16.16	17.00	1.213	0.320	21.9
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	652400/3786	1:1	0.442	0.00	15.65	16.00	1.084	0.479	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.221	0.00	22.91	23.00	1.021	**0.226**	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.154	0.00	22.91	23.00	1.021	0.157	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	662000/3930	1:1	0.102	0.00	22.25	23.00	1.189	0.121	21.9
Back side	100	QPSK 135_69	662000/3930	1:1	0.052	0.00	22.25	23.00	1.189	0.062	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.162	0.00	16.83	17.00	1.040	**0.168**	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.082	0.00	16.83	17.00	1.040	0.086	21.9
Left side	100	QPSK 1_1	650000/3750	1:1	0.061	0.00	16.83	17.00	1.040	0.063	21.9
Top side	100	QPSK 1_1	650000/3750	1:1	0.060	0.00	16.83	17.00	1.040	0.062	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	654800/3822	1:1	0.091	0.00	16.16	17.00	1.213	0.111	21.9
Back side	100	QPSK 135_69	654800/3822	1:1	0.012	0.00	16.16	17.00	1.213	0.015	21.9
Left side	100	QPSK 135_69	654800/3822	1:1	0.019	0.00	16.16	17.00	1.213	0.024	21.9
Top side	100	QPSK 135_69	654800/3822	1:1	0.017	0.00	16.16	17.00	1.213	0.020	21.9

Ant10 Test Record

Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.188	0.00	16.32	16.70	1.091	0.205	21.9
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.245	0.00	16.32	16.70	1.091	0.267	21.9
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.664	0.07	16.32	16.70	1.091	**0.725**	21.9
Right cheek	100	QPSK 1_1	652400/3786	1:1	0.413	0.06	15.99	16.70	1.178	0.486	21.9
Right cheek	100	QPSK 1_1	654800/3822	1:1	0.368	0.05	16.14	16.70	1.138	0.419	21.9
Right cheek	100	QPSK 1_1	657200/3858	1:1	0.349	0.10	16.13	16.70	1.140	0.398	21.9
Right cheek	100	QPSK 1_1	659600/3894	1:1	0.345	0.11	16.00	16.70	1.175	0.405	21.9
Right cheek	100	QPSK 1_1	662000/3930	1:1	0.273	0.05	16.08	16.70	1.153	0.315	21.9
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.635	0.08	16.32	16.70	1.091	0.693	21.9
Right tilted	100	QPSK 1_1	652400/3786	1:1	0.405	0.11	15.99	16.70	1.178	0.477	21.9
Right tilted	100	QPSK 1_1	654800/3822	1:1	0.368	0.17	16.14	16.70	1.138	0.419	21.9
Right tilted	100	QPSK 1_1	657200/3858	1:1	0.373	0.02	16.13	16.70	1.140	0.425	21.9
Right tilted	100	QPSK 1_1	659600/3894	1:1	0.309	0.04	16.00	16.70	1.175	0.363	21.9
Right tilted	100	QPSK 1_1	662000/3930	1:1	0.306	0.16	16.08	16.70	1.153	0.353	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.232	0.01	16.23	16.70	1.114	0.259	21.9
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.248	0.02	16.23	16.70	1.114	0.276	21.9
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.606	0.14	16.23	16.70	1.114	0.675	21.9
Right cheek	100	QPSK 135_69	652400/3786	1:1	0.402	0.11	16.06	16.70	1.159	0.466	21.9
Right cheek	100	QPSK 135_69	654800/3822	1:1	0.373	0.07	16.06	16.70	1.159	0.432	21.9
Right cheek	100	QPSK 135_69	657200/3858	1:1	0.337	0.01	16.00	16.70	1.175	0.396	21.9
Right cheek	100	QPSK 135_69	659600/3894	1:1	0.367	0.14	15.99	16.70	1.178	0.432	21.9
Right cheek	100	QPSK 135_69	662000/3930	1:1	0.408	0.10	16.13	16.70	1.140	0.465	21.9
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.616	-0.01	16.23	16.70	1.114	0.686	21.9
Right tilted	100	QPSK 135_69	652400/3786	1:1	0.301	0.17	16.06	16.70	1.159	0.349	21.9
Right tilted	100	QPSK 135_69	654800/3822	1:1	0.336	0.06	16.06	16.70	1.159	0.389	21.9
Right tilted	100	QPSK 135_69	657200/3858	1:1	0.290	0.11	16.00	16.70	1.175	0.341	21.9
Right tilted	100	QPSK 135_69	659600/3894	1:1	0.343	0.01	15.99	16.70	1.178	0.404	21.9
Right tilted	100	QPSK 135_69	662000/3930	1:1	0.361	0.04	16.13	16.70	1.140	0.412	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.057	0.00	25.37	25.70	1.079	0.061	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.132	0.06	25.37	25.70	1.079	**0.142**	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.066	0.00	25.30	25.70	1.096	0.073	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.118	-0.06	25.30	25.70	1.096	0.129	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.061	0.00	16.32	16.70	1.091	0.066	21.9

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Back side	100	QPSK 1_1	650000/3750	1:1	0.093	0.07	16.32	16.70	1.091	0.101	21.9
Left side	100	QPSK 1_1	650000/3750	1:1	0.020	0.00	16.32	16.70	1.091	0.022	21.9
Right side	100	QPSK 1_1	650000/3750	1:1	0.017	0.00	16.32	16.70	1.091	0.018	21.9
Top side	100	QPSK 1_1	650000/3750	1:1	0.149	0.08	16.32	16.70	1.091	0.163	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.048	0.08	16.23	16.70	1.114	0.053	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.099	0.01	16.23	16.70	1.114	0.110	21.9
Left side	100	QPSK 135_69	650000/3750	1:1	0.022	0.03	16.23	16.70	1.114	0.025	21.9
Right side	100	QPSK 135_69	650000/3750	1:1	0.019	0.00	16.23	16.70	1.114	0.021	21.9
Top side	100	QPSK 135_69	650000/3750	1:1	0.151	0.16	16.23	16.70	1.114	**0.168**	21.9
Ant11 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.235	0.00	18.97	19.2	1.054	0.248	21.9
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.195	0.00	18.97	19.2	1.054	0.206	21.9
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.952	-0.04	18.97	19.2	1.054	**1.004**	21.9
Right cheek-Repeated	100	QPSK 1_1	650000/3750	1:1	0.940	0.01	18.97	19.2	1.054	0.991	21.9
Right cheek	100	QPSK 1_137	652400/3786	1:1	0.694	0.13	18.65	19.2	1.135	0.788	21.9
Right cheek	100	QPSK 1_271	654800/3822	1:1	0.664	0.05	18.61	19.2	1.146	0.761	21.9
Right cheek	100	QPSK 1_271	657200/3858	1:1	0.653	0.07	18.73	19.2	1.114	0.728	21.9
Right cheek	100	QPSK 1_271	659600/3894	1:1	0.618	0.01	18.67	19.2	1.130	0.698	21.9
Right cheek	100	QPSK 1_271	662000/3930	1:1	0.622	0.06	18.65	19.2	1.135	0.706	21.9
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.443	0.08	18.97	19.2	1.054	0.467	21.9
Right tilted	100	QPSK 1_137	652400/3786	1:1	0.207	0.04	18.65	19.2	1.135	0.235	21.9
Right tilted	100	QPSK 1_271	654800/3822	1:1	0.186	0.01	18.61	19.2	1.146	0.213	21.9
Right tilted	100	QPSK 1_271	657200/3858	1:1	0.455	0.06	18.73	19.2	1.114	0.507	21.9
Right tilted	100	QPSK 1_271	659600/3894	1:1	0.461	0.03	18.67	19.2	1.130	0.521	21.9
Right tilted	100	QPSK 1_271	662000/3930	1:1	0.467	0.04	18.65	19.2	1.135	0.530	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.200	0.01	18.82	19.20	1.091	0.218	21.9
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.171	0.02	18.82	19.20	1.091	0.187	21.9
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.686	0.05	18.82	19.20	1.091	0.749	21.9
Right cheek	100	QPSK 135_69	652400/3786	1:1	0.490	0.06	18.51	19.20	1.172	0.574	21.9
Right cheek	100	QPSK 135_69	654800/3822	1:1	0.478	0.07	18.48	19.20	1.180	0.564	21.9
Right cheek	100	QPSK 135_69	657200/3858	1:1	0.481	0.07	18.49	19.20	1.178	0.566	21.9
Right cheek	100	QPSK 135_69	659600/3894	1:1	0.511	0.09	18.60	19.20	1.148	0.587	21.9
Right cheek	100	QPSK 135_69	662000/3930	1:1	0.516	-0.04	18.56	19.20	1.159	0.598	21.9
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.672	0.06	18.82	19.20	1.091	0.733	21.9
Right tilted	100	QPSK 135_69	652400/3786	1:1	0.453	0.07	18.51	19.20	1.172	0.531	21.9
Right tilted	100	QPSK 135_69	654800/3822	1:1	0.451	0.06	18.48	19.20	1.180	0.532	21.9
Right tilted	100	QPSK 135_69	657200/3858	1:1	0.455	-0.07	18.49	19.20	1.178	0.536	21.9
Right tilted	100	QPSK 135_69	659600/3894	1:1	0.475	0.09	18.60	19.20	1.148	0.545	21.9
Right tilted	100	QPSK 135_69	662000/3930	1:1	0.482	0.08	18.56	19.20	1.159	0.559	21.9
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	650000/3750	1:1	0.584	0.00	17.82	18.20	1.091	0.637	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.263	0.01	18.97	19.20	1.054	0.277	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.590	0.03	18.97	19.20	1.054	**0.622**	21.9
Back side	100	QPSK 1_271	652400/3786	1:1	0.504	-0.01	25.21	25.70	1.119	0.564	21.9
Back side	100	QPSK 1_271	654800/3822	1:1	0.532	0.09	25.27	25.70	1.104	0.587	21.9
Back side	100	QPSK 1_271	657200/3858	1:1	0.552	-0.04	25.32	25.70	1.091	0.602	21.9
Back side	100	QPSK 1_271	659600/3894	1:1	0.518	0.02	25.30	25.70	1.096	0.568	21.9
Back side	100	QPSK 1_271	662000/3930	1:1	0.532	0.03	25.25	25.70	1.109	0.590	21.9
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.262	0.03	18.82	19.20	1.091	0.286	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.526	0.01	18.82	19.20	1.091	0.574	21.9
Back side	100	QPSK 135_69	652400/3786	1:1	0.452	0.07	25.07	25.70	1.156	0.523	21.9
Back side	100	QPSK 135_69	654800/3822	1:1	0.482	0.09	25.14	25.70	1.138	0.548	21.9
Back side	100	QPSK 135_69	657200/3858	1:1	0.447	-0.03	25.09	25.70	1.151	0.514	21.9
Back side	100	QPSK 135_69	659600/3894	1:1	0.476	0.02	25.15	25.70	1.135	0.540	21.9
Back side	100	QPSK 135_69	662000/3930	1:1	0.455	0.01	25.13	25.70	1.140	0.519	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.126	-0.11	18.41	18.7	1.069	0.135	21.9

Back side	100	QPSK 1_1	650000/3750	1:1	0.236	-0.07	18.41	18.7	1.069	0.252	21.9
Left side	100	QPSK 1_1	650000/3750	1:1	0.057	0.01	18.41	18.7	1.069	0.061	21.9
Right side	100	QPSK 1_1	650000/3750	1:1	0.001	0.00	18.41	18.7	1.069	0.001	21.9
Top side	100	QPSK 1_1	650000/3750	1:1	0.099	0.05	18.41	18.7	1.069	0.105	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.126	-0.11	18.28	18.70	1.102	0.139	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.236	-0.07	18.28	18.70	1.102	**0.260**	21.9
Left side	100	QPSK 135_69	650000/3750	1:1	0.057	0.01	18.28	18.70	1.102	0.063	21.9
Right side	100	QPSK 135_69	650000/3750	1:1	0.001	0	18.28	18.70	1.102	0.001	21.9
Top side	100	QPSK 135_69	650000/3750	1:1	0.099	0.05	18.28	18.70	1.102	0.109	21.9
Ant6 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.116	0.00	20.16	21.50	1.361	0.158	21.9
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.064	0.00	20.16	21.50	1.361	0.086	21.9
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.418	0.00	20.16	21.50	1.361	0.569	21.9
Right cheek	100	QPSK 1_1	652400/3786	1:1	0.427	0.05	19.82	21.50	1.472	0.629	21.9
Right cheek	100	QPSK 1_1	654800/3822	1:1	0.425	0.09	19.86	21.50	1.459	0.620	21.9
Right cheek	100	QPSK 1_1	657200/3858	1:1	0.429	-0.06	19.89	21.50	1.449	0.622	21.9
Right cheek	100	QPSK 1_1	659600/3894	1:1	0.434	-0.08	20.00	21.50	1.413	0.613	21.9
Right cheek	100	QPSK 1_1	662000/3930	1:1	0.286	0.00	20.01	21.50	1.409	0.403	21.9
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.076	0.00	20.16	21.50	1.361	0.104	21.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.134	0.00	20.06	21.50	1.393	0.187	21.9
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.068	0.00	20.06	21.50	1.393	0.095	21.9
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.421	0.00	20.06	21.50	1.393	0.587	21.9
Right cheek	100	QPSK 135_69	652400/3786	1:1	0.420	0.04	19.79	21.50	1.483	0.623	21.9
Right cheek	100	QPSK 135_69	654800/3822	1:1	0.428	-0.05	19.74	21.50	1.500	0.642	21.9
Right cheek	100	QPSK 135_69	657200/3858	1:1	0.433	0.04	19.77	21.50	1.489	0.645	21.9
Right cheek	100	QPSK 135_69	659600/3894	1:1	0.438	0.09	19.81	21.50	1.476	**0.646**	21.9
Right cheek	100	QPSK 135_69	662000/3930	1:1	0.127	0.11	19.84	21.50	1.466	0.186	21.9
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.041	0.00	20.06	21.50	1.393	0.057	21.9
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.074	0.04	17.38	18.50	1.294	0.096	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.080	-0.05	17.38	18.50	1.294	0.103	21.9
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.095	0.04	17.23	18.50	1.340	**0.127**	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.089	0.04	17.23	18.50	1.340	0.119	21.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.298	-0.09	17.38	18.50	1.294	**0.386**	21.9
Back side	100	QPSK 1_1	650000/3750	1:1	0.242	0.08	17.38	18.50	1.294	0.313	21.9
Right side	100	QPSK 1_1	650000/3750	1:1	0.224	0.04	17.38	18.50	1.294	0.290	21.9
Bottom side	100	QPSK 1_1	650000/3750	1:1	0.039	0.05	17.38	18.50	1.294	0.050	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.280	-0.03	17.23	18.50	1.340	0.375	21.9
Back side	100	QPSK 135_69	650000/3750	1:1	0.191	0.02	17.23	18.50	1.340	0.256	21.9
Right side	100	QPSK 135_69	650000/3750	1:1	0.240	-0.05	17.23	18.50	1.340	0.322	21.9
Bottom side	100	QPSK 135_69	650000/3750	1:1	0.035	0.08	17.23	18.50	1.340	0.046	21.9

Table 30：SAR of 5G NR n77(3700MHz -3980MHz) for Head and Body.

Test Position	**Channel/ Frequency (MHz)**	**Measured SAR (1g)**	**1st Repeated SAR (1g)**	**Ratio**	**2nd Repeated SAR (1g)**	**3rd Repeated SAR (1g)**
Right cheek	650000/3750	0.952	0.940	1.013	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						

8.2.5 SAR Result of 5G NR n78

Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.091	-0.07	14.42	15.50	1.282	0.116	22
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.063	0.01	14.42	15.50	1.282	0.080	22
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.384	0.06	14.42	15.50	1.282	**0.492**	22
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.197	0.01	14.42	15.50	1.282	0.253	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.096	0.15	14.35	15.50	1.303	0.125	22
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.057	0.05	14.35	15.50	1.303	0.074	22
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.301	0.04	14.35	15.50	1.303	0.392	22
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.194	0.03	14.35	15.50	1.303	0.253	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.286	0.02	24.85	26.50	1.462	0.418	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.305	0.01	24.85	26.50	1.462	0.446	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.281	0.05	24.70	26.50	1.514	0.425	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.320	0.07	24.70	26.50	1.514	**0.484**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.058	0.00	14.42	15.50	1.282	**0.074**	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.036	0.00	14.42	15.50	1.282	0.046	22
Left side	100	QPSK 1_1	633334/3500	1:1	0.036	0.03	14.42	15.50	1.282	0.046	22
Top side	100	QPSK 1_1	633334/3500	1:1	0.001	0.05	14.42	15.50	1.282	0.001	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.055	0.00	14.35	15.50	1.303	0.072	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.035	0.00	14.35	15.50	1.303	0.045	22
Left side	100	QPSK 135_69	633334/3500	1:1	0.024	0.02	14.35	15.50	1.303	0.031	22
Top side	100	QPSK 135_69	633334/3500	1:1	0.009	0.00	14.35	15.50	1.303	0.012	22
Ant10 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.455	0.03	15.43	16.50	1.279	0.582	22
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.424	0.02	15.43	16.50	1.279	0.542	22
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.487	0.06	15.43	16.50	1.279	0.623	22
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.619	0.01	15.43	16.50	1.279	**0.792**	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.283	0.01	15.21	16.50	1.346	0.381	22
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.320	0.05	15.21	16.50	1.346	0.431	22
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.411	0.04	15.21	16.50	1.346	0.553	22
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.468	-0.01	15.21	16.50	1.346	0.630	22
Head Test data(1RB) EN-DC											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.264	0.02	14.69	15.00	1.074	0.284	22
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.263	0.01	14.69	15.00	1.074	0.282	22
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.428	0.03	14.69	15.00	1.074	0.460	22
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.453	0.00	14.69	15.00	1.074	0.487	22
Head Test data(50%RB) EN-DC											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.182	0.09	14.64	15.00	1.086	0.198	22
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.175	0.03	14.64	15.00	1.086	0.190	22
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.512	-0.12	14.64	15.00	1.086	0.556	22
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.445	0.06	14.64	15.00	1.086	0.483	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.249	0.01	27.67	28.00	1.079	0.269	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.492	-0.08	27.67	28.00	1.079	0.531	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.255	0.03	27.76	28.00	1.057	0.269	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.557	-0.07	27.76	28.00	1.057	**0.589**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.049	0.00	14.69	15.00	1.074	0.053	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.164	-0.03	14.69	15.00	1.074	**0.176**	22

Left side	100	QPSK 1_1	633334/3500	1:1	0.061	0.01	14.69	15.00	1.074	0.065	22
Right side	100	QPSK 1_1	633334/3500	1:1	0.004	0.00	14.69	15.00	1.074	0.004	22
Top side	100	QPSK 1_1	633334/3500	1:1	0.111	0.03	14.69	15.00	1.074	0.119	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.045	0.00	14.64	15.00	1.086	0.049	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.109	0.07	14.64	15.00	1.086	0.118	22
Left side	100	QPSK 135_69	633334/3500	1:1	0.027	0.03	14.64	15.00	1.086	0.030	22
Right side	100	QPSK 135_69	633334/3500	1:1	0.008	0.01	14.64	15.00	1.086	0.009	22
Top side	100	QPSK 135_69	633334/3500	1:1	0.074	0.01	14.64	15.00	1.119	0.082	22
Ant11 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.194	0.04	17.67	18.00	1.079	0.209	22
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.090	0.15	17.67	18.00	1.079	0.097	22
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.415	0.02	17.67	18.00	1.079	0.448	22
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.251	-0.06	17.67	18.00	1.079	0.271	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.143	0.07	17.64	18.00	1.086	0.155	22
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.131	-0.08	17.64	18.00	1.086	0.142	22
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.514	0.05	17.64	18.00	1.086	**0.558**	22
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.278	0.02	17.64	18.00	1.086	0.302	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.209	0.01	27.34	28.50	1.306	0.273	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.341	-0.07	27.34	28.50	1.306	0.445	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.236	0.09	27.25	28.50	1.334	0.315	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.419	-0.02	27.25	28.50	1.334	**0.559**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.065	0.00	16.75	18.00	1.334	0.087	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.153	0.05	16.75	18.00	1.334	0.204	22
Left side	100	QPSK 1_1	633334/3500	1:1	0.061	0.02	16.75	18.00	1.334	0.081	22
Right side	100	QPSK 1_1	633334/3500	1:1	0.001	0.00	16.75	18.00	1.334	0.001	22
Top side	100	QPSK 1_1	633334/3500	1:1	0.034	0.01	16.75	18.00	1.334	0.045	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.094	0.00	16.61	18.00	1.377	0.130	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.188	0.05	16.61	18.00	1.377	**0.259**	22
Left side	100	QPSK 135_69	633334/3500	1:1	0.056	0.01	16.61	18.00	1.377	0.077	22
Right side	100	QPSK 135_69	633334/3500	1:1	0.003	0.00	16.61	18.00	1.377	0.004	22
Top side	100	QPSK 135_69	633334/3500	1:1	0.042	0.01	16.61	18.00	1.377	0.057	22
Ant6 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.025	0.09	16.18	17.50	1.189	0.030	22
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.012	0.01	16.18	17.50	1.189	0.014	22
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.137	0.00	16.18	17.50	1.189	**0.163**	22
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.026	0.08	16.18	17.50	1.189	0.031	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.049	-0.03	16.03	17.50	1.230	0.060	22
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.015	0.01	16.03	17.50	1.230	0.018	22
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.082	0.09	16.03	17.50	1.230	0.101	22
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.022	0.01	16.03	17.50	1.230	0.027	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.080	0.13	17.17	18.50	1.189	0.095	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.087	-0.10	17.17	18.50	1.189	0.104	22
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.083	-0.02	17.00	18.50	1.230	0.102	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.110	-0.08	17.00	18.50	1.230	**0.135**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.114	-0.14	16.18	17.50	1.189	0.135	22
Back side	100	QPSK 1_1	633334/3500	1:1	0.151	0.06	16.18	17.50	1.189	0.179	22
Right side	100	QPSK 1_1	633334/3500	1:1	0.207	-0.15	16.18	17.50	1.189	0.246	22
Bottom side	100	QPSK 1_1	633334/3500	1:1	0.031	0.09	16.18	17.50	1.189	0.037	22

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Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.131	0.05	16.03	17.50	1.230	0.161	22
Back side	100	QPSK 135_69	633334/3500	1:1	0.142	-0.02	16.03	17.50	1.230	0.175	22
Right side	100	QPSK 135_69	633334/3500	1:1	0.207	-0.03	16.03	17.50	1.230	**0.255**	22
Bottom side	100	QPSK 135_69	633334/3500	1:1	0.018	-0.01	16.03	17.50	1.230	0.022	22

Table 31： SAR of 5G NR n78(3450MHz-3550MHz) for Head and Body.
Note: The power of class2 is larger than that of class3, so only the class2 was tested and class3 is not required.

Ant1 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.173	0.00	14.40	15.50	1.288	0.223	22
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.114	0.00	14.40	15.50	1.288	0.147	22
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.433	0.01	14.40	15.50	1.288	**0.558**	22
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.329	0.02	14.40	15.50	1.288	0.424	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.164	0.09	14.30	15.50	1.318	0.216	22
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.126	0.11	14.30	15.50	1.318	0.166	22
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.345	0.02	14.30	15.50	1.318	0.455	22
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.252	0.01	14.30	15.50	1.318	0.332	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.324	0.04	24.88	26.50	1.452	0.470	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.358	0.06	24.88	26.50	1.452	0.520	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.314	0.04	24.63	26.50	1.538	0.483	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.347	0.07	24.63	26.50	1.538	**0.534**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.074	0.00	14.40	15.50	1.288	**0.096**	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.044	0.00	14.40	15.50	1.288	0.056	22
Left side	100	QPSK 1_1	650000/3750	1:1	0.027	0.00	14.40	15.50	1.288	0.035	22
Top side	100	QPSK 1_1	650000/3750	1:1	0.037	0.02	14.40	15.50	1.288	0.048	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.063	0.00	14.30	15.50	1.318	0.083	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.024	0.00	14.30	15.50	1.318	0.032	22
Left side	100	QPSK 135_69	650000/3750	1:1	0.020	0.00	14.30	15.50	1.318	0.026	22
Top side	100	QPSK 135_69	650000/3750	1:1	0.034	0.06	14.30	15.50	1.318	0.044	22
Ant10 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.302	0.05	15.25	16.50	1.334	0.403	22
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.291	0.01	15.25	16.50	1.334	0.388	22
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.545	0.06	15.25	16.50	1.334	**0.727**	22
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.477	-0.07	15.25	16.50	1.334	0.636	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.306	0.02	15.23	16.50	1.340	0.410	22
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.318	0.01	15.23	16.50	1.340	0.426	22
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.540	-0.09	15.23	16.50	1.340	0.723	22
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.510	-0.07	15.23	16.50	1.340	0.683	22
Head Test data(1RB) EN-DC											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.207	0.02	14.51	15.00	1.119	0.232	22
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.209	0.14	14.51	15.00	1.119	0.234	22
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.435	0.20	14.51	15.00	1.119	0.487	22
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.325	0.03	14.51	15.00	1.119	0.364	22
Head Test data(50%RB) EN-DC											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.184	0.07	14.50	15.00	1.122	0.206	22
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.166	0.05	14.50	15.00	1.122	0.186	22
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.463	0.07	14.50	15.00	1.122	0.519	22
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.365	-0.13	14.50	15.00	1.122	0.410	22

Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.269	0.06	27.73	28.00	1.064	0.286	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.551	0.08	27.73	28.00	1.064	**0.586**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.314	0.05	27.61	28.00	1.094	0.344	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.347	0.06	27.61	28.00	1.094	0.380	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.033	0.00	14.51	15.00	1.119	0.037	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.054	0.00	14.51	15.00	1.119	0.061	22
Left side	100	QPSK 1_1	650000/3750	1:1	0.014	0.00	14.51	15.00	1.119	0.015	22
Right side	100	QPSK 1_1	650000/3750	1:1	0.002	0.00	14.51	15.00	1.119	0.002	22
Top side	100	QPSK 1_1	650000/3750	1:1	0.076	0.12	14.51	15.00	1.119	0.085	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.027	0.00	14.50	15.00	1.122	0.031	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.051	0.06	14.50	15.00	1.122	0.057	22
Left side	100	QPSK 135_69	650000/3750	1:1	0.013	0.00	14.50	15.00	1.122	0.015	22
Right side	100	QPSK 135_69	650000/3750	1:1	0.002	0.00	14.50	15.00	1.122	0.002	22
Top side	100	QPSK 135_69	650000/3750	1:1	0.081	0.06	14.50	15.00	1.122	**0.090**	22
Ant11 Test Record											
Test position	**BW.**	**Modulation**	**Test ch./Freq.**	**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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.136	0.11	17.23	18.00	1.194	0.162	22
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.100	-0.01	17.23	18.00	1.194	0.119	22
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.444	0.08	17.23	18.00	1.194	**0.530**	22
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.252	0.05	17.23	18.00	1.194	0.301	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.104	-0.08	17.07	18.00	1.239	0.129	22
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.091	0.03	17.07	18.00	1.239	0.112	22
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.403	0.05	17.07	18.00	1.239	0.499	22
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.215	0.02	17.07	18.00	1.239	0.266	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.276	0.05	27.51	28.50	1.256	0.347	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.309	0.03	27.51	28.50	1.256	**0.388**	22
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.219	0.16	27.34	28.50	1.306	0.286	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.195	0.03	27.34	28.50	1.306	0.255	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.062	-0.18	16.65	17.50	1.216	0.076	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.117	-0.03	16.65	17.50	1.216	**0.142**	22
Left side	100	QPSK 1_1	650000/3750	1:1	0.038	0.01	16.65	17.50	1.216	0.046	22
Right side	100	QPSK 1_1	650000/3750	1:1	0.001	0.00	16.65	17.50	1.216	0.001	22
Top side	100	QPSK 1_1	650000/3750	1:1	0.043	0.02	16.65	17.50	1.216	0.053	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.063	0.00	16.51	17.50	1.256	0.080	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.112	-0.07	16.51	17.50	1.256	0.141	22
Left side	100	QPSK 135_69	650000/3750	1:1	0.033	-0.03	16.51	17.50	1.256	0.041	22
Right side	100	QPSK 135_69	650000/3750	1:1	0.001	0.00	16.51	17.50	1.256	0.001	22
Top side	100	QPSK 135_69	650000/3750	1:1	0.046	0.08	16.51	17.50	1.256	0.058	22

Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	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(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.037	0.07	16.07	17.50	1.390	0.051	22
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.008	0.06	16.07	17.50	1.390	0.011	22
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.260	0.04	16.07	17.50	1.390	**0.361**	22
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.016	0.02	16.07	17.50	1.390	0.023	22
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.046	0.02	16.01	17.50	1.409	0.065	22
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.018	0.03	16.01	17.50	1.409	0.025	22
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.179	0.01	16.01	17.50	1.409	0.252	22
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.013	0.05	16.01	17.50	1.409	0.018	22
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.071	0.03	17.19	18.50	1.352	0.096	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.097	0.04	17.19	18.50	1.352	0.131	22
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.094	0.05	17.02	18.50	1.406	0.133	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.098	0.02	17.02	18.50	1.406	**0.138**	22
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.159	-0.11	16.07	17.50	1.390	0.221	22
Back side	100	QPSK 1_1	650000/3750	1:1	0.163	0.05	16.07	17.50	1.390	0.227	22
Right side	100	QPSK 1_1	650000/3750	1:1	0.230	-0.15	16.07	17.50	1.390	**0.320**	22
Bottom side	100	QPSK 1_1	650000/3750	1:1	0.033	0.06	16.07	17.50	1.390	0.046	22
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.158	-0.06	16.01	17.50	1.409	0.223	22
Back side	100	QPSK 135_69	650000/3750	1:1	0.110	0.08	16.01	17.50	1.409	0.155	22
Right side	100	QPSK 135_69	650000/3750	1:1	0.221	0.01	16.01	17.50	1.409	0.311	22
Bottom side	100	QPSK 135_69	650000/3750	1:1	0.020	0.05	16.01	17.50	1.409	0.028	22

Table 32： SAR of 5G NR n78(3700MHz-3800 MHz) for Head and Body.

Note:The power of class2 is larger than that of class3, so only the class2 was tested and class3 is not required.

8.2.6 SAR Result of WIFI 2.4G

(Ant16+Ant18)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											
Left cheek	802.11b	1/2412	99.00%	1.010	0.280	0.04	18.09	19.50	1.384	0.391	22
Left tilted	802.11b	1/2412	99.00%	1.010	0.346	0.03	18.09	19.50	1.384	**0.484**	22
Right cheek	802.11b	1/2412	99.00%	1.010	0.254	-0.02	18.09	19.50	1.384	0.355	22
Right tilted	802.11b	1/2412	99.00%	1.010	0.239	0.05	18.09	19.50	1.384	0.334	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	1/2412	99.00%	1.010	0.089	0.00	22.18	23.50	1.355	0.122	22
Back side	802.11b	1/2412	99.00%	1.010	0.092	0.12	22.18	23.50	1.355	**0.126**	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	1/2412	99.00%	1.010	0.161	0.06	22.18	23.50	1.355	0.220	22
Back side	802.11b	1/2412	99.00%	1.010	0.213	-0.14	22.18	23.50	1.355	0.292	22
Left side	802.11b	1/2412	99.00%	1.010	0.032	0.09	22.18	23.50	1.355	0.044	22
Right side	802.11b	1/2412	99.00%	1.010	0.158	0.11	22.18	23.50	1.355	0.216	22
Top side	802.11b	1/2412	99.00%	1.010	0.434	0.11	22.18	23.50	1.355	**0.594**	22
(Ant16+Ant17)MIMO 1Test 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											
Left cheek	802.11b	1/2412	99.00%	1.010	0.023	0.00	17.11	18.50	1.377	0.031	22
Left tilted	802.11b	1/2412	99.00%	1.010	0.009	0.00	17.11	18.50	1.377	0.013	22
Right cheek	802.11b	1/2412	99.00%	1.010	0.071	0.09	17.11	18.50	1.377	**0.098**	22
Right tilted	802.11b	1/2412	99.00%	1.010	0.027	0.00	17.11	18.50	1.377	0.037	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	1/2412	99.00%	1.010	0.032	0.01	21.21	22.50	1.346	0.044	22
Back side	802.11b	1/2412	99.00%	1.010	0.117	0.00	21.21	22.50	1.346	**0.159**	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	1/2412	99.00%	1.010	0.071	0.09	21.21	22.50	1.346	0.096	22
Back side	802.11b	1/2412	99.00%	1.010	0.283	0.14	21.21	22.50	1.346	**0.385**	22
Left side	802.11b	1/2412	99.00%	1.010	0.174	0.09	21.21	22.50	1.346	0.237	22
Right side	802.11b	1/2412	99.00%	1.010	0.003	0.00	21.21	22.50	1.346	0.004	22
Top side	802.11b	1/2412	99.00%	1.010	0.022	0.01	21.21	22.50	1.346	0.030	22
(Ant16+Ant18)MIMO simultaneous transmission with WWAN 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											
Left cheek	802.11b	1/2412	99.00%	1.010	0.280	0.04	18.09	15.00	0.491	0.139	22
Left tilted	802.11b	1/2412	99.00%	1.010	0.346	0.03	18.09	15.00	0.491	0.172	22
Right cheek	802.11b	1/2412	99.00%	1.010	0.254	-0.02	18.09	15.00	0.491	0.126	22
Right tilted	802.11b	1/2412	99.00%	1.010	0.239	0.05	18.09	15.00	0.491	0.119	22

Table 33：SAR of WIFI 2.4G for Head and Body.

Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11b,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.

8.2.1 SAR Result of WIFI 5G

(Ant16+Ant19)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 of U-NII-2A											
Left cheek	802.11a	52/5260	99.05%	1.010	0.751	0.00	16.19	17.00	1.205	0.914	22.1
Left cheek	802.11a	64/5320	99.05%	1.010	0.823	0.00	16.12	17.00	1.225	1.018	22.1
Left tilted	802.11a	52/5260	99.05%	1.010	0.426	0.08	16.19	17.00	1.205	0.518	22.1
Right cheek	802.11a	52/5260	99.05%	1.010	0.240	-0.05	16.19	17.00	1.205	0.292	22.1
Right tilted	802.11a	52/5260	99.05%	1.010	0.246	-0.05	16.19	17.00	1.205	0.299	22.1
Head Test data of U-NII-2C											
Left cheek	802.11a	100/5500	99.05%	1.010	0.819	0.00	16.35	17.50	1.303	**1.078**	22.1
Left cheek-Repeated	802.11a	100/5500	99.05%	1.010	0.803	0.08	16.35	17.50	1.303	1.056	22.1
Left cheek	802.11a	104/5520	99.05%	1.010	0.402	0.14	16.35	17.50	1.303	0.529	22.1
Left tilted	802.11a	100/5500	99.05%	1.010	0.444	0.00	16.35	17.50	1.303	0.584	22.1
Right cheek	802.11a	100/5500	99.05%	1.010	0.236	0.00	16.35	17.50	1.303	0.310	22.1
Right tilted	802.11a	100/5500	99.05%	1.010	0.262	0.00	16.35	17.50	1.303	0.345	22.1
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	99.05%	1.010	0.496	0.00	17.09	18.00	1.233	0.617	22.1
Left tilted	802.11a	157/5785	99.05%	1.010	0.663	0.03	17.09	18.00	1.233	0.825	22.1
Left tilted	802.11a	165/5825	99.05%	1.010	0.731	-0.01	17.02	18.00	1.253	0.925	22.1
Right cheek	802.11a	157/5785	99.05%	1.010	0.387	0.11	17.09	18.00	1.233	0.482	22.1
Right tilted	802.11a	157/5785	99.05%	1.010	0.414	0.13	17.09	18.00	1.233	0.515	22.1
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	99.05%	1.010	0.085	0.09	19.75	20.50	1.189	0.102	22.1
Back side	802.11a	52/5260	99.05%	1.010	0.054	0.00	19.75	20.50	1.189	0.065	22.1
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	100/5500	99.05%	1.010	0.146	0.01	20.29	21.50	1.321	0.195	22.1
Back side	802.11a	100/5500	99.05%	1.010	0.069	0.00	20.29	21.50	1.321	0.092	22.1
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	99.05%	1.010	0.154	0.06	21.66	22.50	1.213	0.189	22.1
Back side	802.11a	157/5785	99.05%	1.010	0.190	0.07	21.66	22.50	1.213	**0.233**	22.1
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	36/5180	99.05%	1.010	0.104	0.05	19.76	20.50	1.186	0.125	22.1
Back side	802.11a	36/5180	99.05%	1.010	0.099	0.00	19.76	20.50	1.186	0.119	22.1
Left side	802.11a	36/5180	99.05%	1.010	0.012	0.03	19.76	20.50	1.186	0.014	22.1
Right side	802.11a	36/5180	99.05%	1.010	0.037	0.01	19.76	20.50	1.186	0.044	22.1
Top side	802.11a	36/5180	99.05%	1.010	0.076	0.04	19.76	20.50	1.186	0.090	22.1
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	99.05%	1.010	0.256	0.06	21.66	22.50	1.213	0.314	22.1
Back side	802.11a	157/5785	99.05%	1.010	0.317	-0.04	21.66	22.50	1.213	0.388	22.1
Left side	802.11a	157/5785	99.05%	1.010	0.022	0.00	21.66	22.50	1.213	0.027	22.1
Right side	802.11a	157/5785	99.05%	1.010	0.079	0.06	21.66	22.50	1.213	0.097	22.1
Top side	802.11a	157/5785	99.05%	1.010	0.524	-0.19	21.66	22.50	1.213	**0.642**	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	36/5180	99.05%	1.010	0.474	0.00	19.75	20.50	1.189	0.569	22.1
Back side	802.11a	36/5180	99.05%	1.010	0.184	0.00	19.75	20.50	1.189	0.221	22.1
Left side	802.11a	36/5180	99.05%	1.010	0.001	0.00	19.75	20.50	1.189	0.001	22.1
Right side	802.11a	36/5180	99.05%	1.010	0.098	0.08	19.75	20.50	1.189	0.118	22.1
Top side	802.11a	36/5180	99.05%	1.010	0.282	0.08	19.75	20.50	1.189	0.338	22.1
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	100/5500	99.05%	1.010	0.849	0.00	20.29	21.50	1.321	**1.133**	22.1
Back side	802.11a	100/5500	99.05%	1.010	0.474	0.00	20.29	21.50	1.321	0.632	22.1
Left side	802.11a	100/5500	99.05%	1.010	0.005	0.00	20.29	21.50	1.321	0.007	22.1
Right side	802.11a	100/5500	99.05%	1.010	0.304	0.02	20.29	21.50	1.321	0.406	22.1

Top side	802.11a	100/5500	99.05%	1.010	0.846	-0.09	20.29	21.50	1.321	1.129	22.1
(Ant16+Ant17)MIMO 1 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 of U-NII-2A											
Left cheek	802.11a	52/5260	99.06%	1.009	0.002	0.00	14.04	15.00	1.247	0.003	22.1
Left tilted	802.11a	52/5260	99.06%	1.009	0.027	0.00	14.04	15.00	1.247	**0.033**	22.1
Right cheek	802.11a	52/5260	99.06%	1.009	0.003	0.00	14.04	15.00	1.247	0.003	22.1
Right tilted	802.11a	52/5260	99.06%	1.009	0.001	0.00	14.04	15.00	1.247	0.001	22.1
Head Test data of U-NII-2C											
Left cheek	802.11a	100/5500	99.06%	1.009	0.002	0.01	13.98	15.50	1.419	0.003	22.1
Left tilted	802.11a	100/5500	99.06%	1.009	0.001	0.00	13.98	15.50	1.419	0.001	22.1
Right cheek	802.11a	100/5500	99.06%	1.009	0.003	0.03	13.98	15.50	1.419	0.004	22.1
Right tilted	802.11a	100/5500	99.06%	1.009	0.010	0.03	13.98	15.50	1.419	0.014	22.1
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	99.06%	1.009	0.020	0.01	14.50	16.00	1.413	0.029	22.1
Left tilted	802.11a	157/5785	99.06%	1.009	0.021	0.05	14.50	16.00	1.413	0.030	22.1
Right cheek	802.11a	157/5785	99.06%	1.009	0.015	0.03	14.50	16.00	1.413	0.021	22.1
Right tilted	802.11a	157/5785	99.06%	1.009	0.010	0.04	14.50	16.00	1.413	0.014	22.1
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	99.06%	1.009	0.003	0.00	17.65	18.50	1.216	0.003	22.1
Back side	802.11a	52/5260	99.06%	1.009	0.071	0.00	17.65	18.50	1.216	0.087	22.1
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	100/5500	99.06%	1.009	0.002	0.01	17.98	19.50	1.419	0.002	22.1
Back side	802.11a	100/5500	99.06%	1.009	0.122	0.06	17.98	19.50	1.419	**0.175**	22.1
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	99.06%	1.009	0.001	0.00	18.92	20.50	1.439	0.001	22.1
Back side	802.11a	157/5785	99.06%	1.009	0.104	-0.04	18.92	20.50	1.439	0.151	22.1
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	100/5500	99.06%	1.009	0.012	0.00	17.57	18.50	1.239	0.015	22.1
Back side	802.11a	100/5500	99.06%	1.009	0.149	0.09	17.57	18.50	1.239	0.186	22.1
Left side	802.11a	100/5500	99.06%	1.009	0.018	0.00	17.57	18.50	1.239	0.022	22.1
Right side	802.11a	100/5500	99.06%	1.009	0.001	0.00	17.57	18.50	1.239	0.001	22.1
Top side	802.11a	100/5500	99.06%	1.009	0.012	0.00	17.57	18.50	1.239	0.015	22.1
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	99.06%	1.009	0.003	0.00	18.92	20.50	1.439	0.004	22.1
Back side	802.11a	157/5785	99.06%	1.009	0.162	0.09	18.92	20.50	1.439	**0.235**	22.1
Left side	802.11a	157/5785	99.06%	1.009	0.020	0.00	18.92	20.50	1.439	0.029	22.1
Right side	802.11a	157/5785	99.06%	1.009	0.068	0.00	18.92	20.50	1.439	0.098	22.1
Top side	802.11a	157/5785	99.06%	1.009	0.015	0.06	18.92	20.50	1.439	0.021	22.1
Test position	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**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.(℃)**
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	99.06%	1.009	0.027	0.00	17.65	18.50	1.216	0.033	22.1
Back side	802.11a	52/5260	99.06%	1.009	0.477	0.08	17.65	18.50	1.216	0.586	22.1
Left side	802.11a	52/5260	99.06%	1.009	0.057	0.00	17.65	18.50	1.216	0.070	22.1
Right side	802.11a	52/5260	99.06%	1.009	0.001	0.00	17.65	18.50	1.216	0.001	22.1
Top side	802.11a	52/5260	99.06%	1.009	0.001	0.00	17.65	18.50	1.216	0.001	22.1
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	100/5500	99.06%	1.009	0.035	0.00	17.98	19.50	1.419	0.050	22.1
Back side	802.11a	100/5500	99.06%	1.009	0.897	0.11	17.98	19.50	1.419	**1.285**	22.1
Left side	802.11a	100/5500	99.06%	1.009	0.060	0.00	17.98	19.50	1.419	0.086	22.1
Right side	802.11a	100/5500	99.06%	1.009	0.001	0.00	17.98	19.50	1.419	0.001	22.1
Top side	802.11a	100/5500	99.06%	1.009	0.003	0.00	17.98	19.50	1.419	0.004	22.1
(Ant16+Ant19)MIMO simultaneous transmission with WWAN 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 of U-NII-2A											
Left cheek	802.11a	52/5260	99.05%	1.010	0.751	0.00	16.19	11.00	0.303	0.230	22.1
Left cheek	802.11a	64/5320	99.05%	1.010	0.823	0.00	16.12	11.00	0.308	0.256	22.1
Left tilted	802.11a	52/5260	99.05%	1.010	0.426	0.08	16.19	11.00	0.303	0.130	22.1
Right cheek	802.11a	52/5260	99.05%	1.010	0.240	-0.05	16.19	11.00	0.303	0.073	22.1
Right tilted	802.11a	52/5260	99.05%	1.010	0.246	-0.05	16.19	11.00	0.303	0.075	22.1
Head Test data of U-NII-2C											
Left cheek	802.11a	100/5500	99.05%	1.010	0.819	0.00	16.35	11.50	0.327	0.271	22.1
Left cheek	802.11a	104/5520	99.05%	1.010	0.402	0.14	16.35	11.50	0.327	0.133	22.1
Left tilted	802.11a	100/5500	99.05%	1.010	0.444	0.00	16.35	11.50	0.327	0.147	22.1
Right cheek	802.11a	100/5500	99.05%	1.010	0.236	0.00	16.35	11.50	0.327	0.078	22.1
Right tilted	802.11a	100/5500	99.05%	1.010	0.262	0.00	16.35	11.50	0.327	0.087	22.1
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	99.05%	1.010	0.496	0.00	17.09	12.00	0.310	0.155	22.1
Left tilted	802.11a	157/5785	99.05%	1.010	0.663	0.03	17.09	12.00	0.310	0.207	22.1
Left tilted	802.11a	165/5825	99.05%	1.010	0.731	-0.01	17.02	12.00	0.315	0.232	22.1
Right cheek	802.11a	157/5785	99.05%	1.010	0.387	0.11	17.09	12.00	0.310	0.121	22.1
Right tilted	802.11a	157/5785	99.05%	1.010	0.414	0.13	17.09	12.00	0.310	0.129	22.1
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	99.00%	1.010	0.496	0.00	17.09	12.00	0.310	0.155	22.1
Left tilted	802.11a	157/5785	99.00%	1.010	0.663	0.03	17.09	12.00	0.310	0.207	22.1
Left tilted	802.11a	165/5825	99.00%	1.010	0.731	-0.01	17.02	12.00	0.315	0.232	22.1
Right cheek	802.11a	157/5785	99.00%	1.010	0.387	0.11	17.09	12.00	0.310	0.121	22.1
Right tilted	802.11a	157/5785	99.00%	1.010	0.414	0.13	17.09	12.00	0.310	0.130	22.1

Table 34：SAR of WIFI 5G for Head and Body.

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.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Left cheek	100/5500	0.819	0.803	1.020	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						

8.2.2 SAR Result of BT

Ant18 2 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											
Left cheek	DH5	39/2441	76.86%	1.301	0.180	0.00	15.75	17.00	1.334	0.312	22.1
Left tilted	DH5	39/2441	76.86%	1.301	0.297	-0.01	15.75	17.00	1.334	**0.515**	22.1
Right cheek	DH5	39/2441	76.86%	1.301	0.266	0.09	15.75	17.00	1.334	0.462	22.1
Right tilted	DH5	39/2441	76.86%	1.301	0.218	0.09	15.75	17.00	1.334	0.378	22.1
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.86%	1.301	0.018	0.09	15.75	17.00	1.334	0.031	22.1
Back side	DH5	39/2441	76.86%	1.301	0.021	0.00	15.75	17.00	1.334	**0.037**	22.1
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.034	0.09	15.75	17.00	1.334	0.059	22.1
Back side	DH5	39/2441	76.86%	1.301	0.037	0.09	15.75	17.00	1.334	0.064	22.1
Left side	DH5	39/2441	76.86%	1.301	0.005	0.09	15.75	17.00	1.334	0.009	22.1
Right side	DH5	39/2441	76.86%	1.301	0.024	-0.06	15.75	17.00	1.334	0.042	22.1
Top side	DH5	39/2441	76.86%	1.301	0.087	0.08	15.75	17.00	1.334	**0.152**	22.1
Ant16 1 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											
Left cheek	DH5	39/2441	76.86%	1.301	0.234	0.08	16.99	17.50	1.125	**0.342**	22.1
Left tilted	DH5	39/2441	76.86%	1.301	0.069	0.02	16.99	17.50	1.125	0.101	22.1
Right cheek	DH5	39/2441	76.86%	1.301	0.195	0.05	16.99	17.50	1.125	0.285	22.1
Right tilted	DH5	39/2441	76.86%	1.301	0.049	0.09	16.99	17.50	1.125	0.072	22.1
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.86%	1.301	0.048	0.00	16.99	17.50	1.125	0.070	22.1
Back side	DH5	39/2441	76.86%	1.301	0.057	-0.06	16.99	17.50	1.125	**0.083**	22.1
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.088	0.07	16.99	17.50	1.125	0.129	22.1
Back side	DH5	39/2441	76.86%	1.301	0.114	0.05	16.99	17.50	1.125	0.167	22.1
Left side	DH5	39/2441	76.86%	1.301	0.001	0.00	16.99	17.50	1.125	0.001	22.1
Right side	DH5	39/2441	76.86%	1.301	0.158	0.02	16.99	17.50	1.125	**0.231**	22.1
Top side	DH5	39/2441	76.86%	1.301	0.019	0.09	16.99	17.50	1.125	0.028	22.1
Ant18 2 simultaneous transmission with WWAN 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											
Left cheek	DH5	39/2441	76.86%	1.301	0.180	0.00	15.75	14.00	0.668	0.157	22.1
Left tilted	DH5	39/2441	76.86%	1.301	0.297	-0.01	15.75	14.00	0.668	0.259	22.1
Right cheek	DH5	39/2441	76.86%	1.301	0.266	0.09	15.75	14.00	0.668	0.232	22.1
Right tilted	DH5	39/2441	76.86%	1.301	0.218	0.09	15.75	14.00	0.668	0.190	22.1
Ant16 1 simultaneous transmission with WWAN 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											
Left cheek	DH5	39/2441	76.86%	1.301	0.234	0.08	16.99	16.50	0.893	0.274	22.1
Left tilted	DH5	39/2441	76.86%	1.301	0.069	0.02	16.99	16.50	0.893	0.081	22.1
Right cheek	DH5	39/2441	76.86%	1.301	0.195	0.05	16.99	16.50	0.893	0.228	22.1
Right tilted	DH5	39/2441	76.86%	1.301	0.049	0.09	16.99	16.50	0.893	0.057	22.1

Table 35：SAR of BT for Head and Body.

8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

- **Simultaneous Transmission Possibilities**

NO	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + BT	Y	Y	Y	Y
2	WWAN + WIFI 6E MIMO	Y	Y	N	Y
3	WWAN + WIFI 5G MIMO + BT	Y	Y	Y	Y
4	WWAN + WIFI 6E MIMO + BT	Y	Y	N	Y
5	WWAN + WIFI 2.4G MIMO 1 + WIFI 5G MIMO 1	Y	Y	Y	Y
6	WWAN + WIFI 2.4G MIMO 1 + WIFI 6E MIMO	Y	Y	N	Y
7	WWAN + WIFI 2.4G MIMO 2 + WIFI 5G MIMO 2	Y	Y	Y	Y
8	WIFI 5G MIMO + BT	Y	Y	Y	Y
9	WIFI 6E MIMO + BT	Y	Y	N	Y

Note:
WIFI 2.4G MIMO 1: Ant16+Ant18
WIFI 2.4G MIMO 2: Ant16+Ant17
WIFI 5G MIMO 1: Ant16+Ant19
WIFI 5G MIMO 2: Ant16+Ant17
WIFI 6E MIMO: Ant16+Ant19

For WIFI 6E MIMO test data from the original FCC test report (report No.: EN/2021/C0047), it is only used to calculate Simultaneous transmission.

8.3.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

LTE Band	Exposure position	Ant4	Ant6	Band 4		Summed SAR
				Ant4	Ant6	
Band 7	Left cheek	0.325	0.107	0.546	0.523	0.871
	Left tilted	0.370	0.059	0.546	0.523	0.916
	Right cheek	0.370	0.518	0.546	0.523	1.064
	Right tilted	0.501	0.049	0.546	0.523	1.047

LTE Band (EN_DC)	Exposure position	Ant3	Ant4	Ant5	Ant6	n5		EN_DC Summed SAR
						Ant0	Ant1	
Band 7	Left cheek	0.028	0.501	0.471	0.518	0.302	0.244	0.820
	Left tilted	0.028	0.501	0.471	0.518	0.159	0.194	0.712
	Right cheek	0.028	0.501	0.471	0.518	0.217	0.506	1.024
	Right tilted	0.028	0.501	0.471	0.518	0.147	0.407	0.925

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n7				EN_DC Summed SAR
				Ant3	Ant4	Ant5	Ant6	
Band 5	Left cheek	0.316	0.285	0.103	0.608	0.524	0.351	0.924
	Left tilted	0.184	0.182	0.103	0.608	0.524	0.351	0.792
	Right cheek	0.252	0.445	0.103	0.608	0.524	0.351	1.053
	Right tilted	0.179	0.389	0.103	0.608	0.524	0.351	0.997

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant3	Ant4	Ant5	Ant6	n78(3450-3550)				n78(3700-3800)				EN_DC Summed SAR
								Ant1	Ant6	Ant10	Ant11	Ant1	Ant6	Ant10	Ant11	
Band 2	Left cheek	/	/	0.211	/	0.206	/	0.125	0.060	0.284	0.209	0.223	0.065	0.232	0.162	0.495
	Left tilted	/	/	0.056	/	0.036	/	0.080	0.018	0.282	0.142	0.166	0.025	0.234	0.119	0.338
	Right cheek	/	/	0.153	/	0.502	/	0.492	0.163	0.556	0.558	0.558	0.361	0.519	0.530	1.060
	Right tilted	/	/	0.080	/	0.069	/	0.253	0.031	0.487	0.302	0.424	0.023	0.410	0.301	0.567
Band 5	Left cheek	0.316	0.285	/	/	/	/	0.125	0.060	0.284	0.209	0.223	0.065	0.232	0.162	0.600
	Left tilted	0.184	0.182	/	/	/	/	0.080	0.018	0.282	0.142	0.166	0.025	0.234	0.119	0.466
	Right cheek	0.252	0.445	/	/	/	/	0.492	0.163	0.556	0.558	0.558	0.361	0.519	0.530	1.003
	Right tilted	0.179	0.389	/	/	/	/	0.253	0.031	0.487	0.302	0.424	0.023	0.410	0.301	0.876
Band 7	Left cheek	/	/	0.028	0.501	0.471	0.518	0.125	0.060	0.284	0.209	0.223	0.065	0.232	0.162	0.802
	Left tilted	/	/	0.028	0.501	0.471	0.518	0.080	0.018	0.282	0.142	0.166	0.025	0.234	0.119	0.800
	Right cheek	/	/	0.028	0.501	0.471	0.518	0.492	0.163	0.556	0.558	0.558	0.361	0.519	0.530	1.076
	Right tilted	/	/	0.028	0.501	0.471	0.518	0.253	0.031	0.487	0.302	0.424	0.023	0.410	0.301	1.005
Band 38	Left cheek	/	/	0.098	0.299	0.286	0.100	0.125	0.060	0.284	0.209	0.223	0.065	0.232	0.162	0.583
	Left tilted	/	/	0.084	0.359	0.059	0.067	0.080	0.018	0.282	0.142	0.166	0.025	0.234	0.119	0.641
	Right cheek	/	/	0.116	0.422	0.541	0.361	0.492	0.163	0.556	0.558	0.558	0.361	0.519	0.530	1.099
	Right tilted	/	/	0.036	0.472	0.191	0.112	0.253	0.031	0.487	0.302	0.424	0.023	0.410	0.301	0.959
Band 41	Left cheek	/	/	0.101	0.234	0.272	0.107	0.125	0.060	0.284	0.209	0.223	0.065	0.232	0.162	0.556
	Left tilted	/	/	0.084	0.286	0.038	0.075	0.080	0.018	0.282	0.142	0.166	0.025	0.234	0.119	0.568
	Right cheek	/	/	0.175	0.304	0.473	0.371	0.492	0.163	0.556	0.558	0.558	0.361	0.519	0.530	1.031
	Right tilted	/	/	0.036	0.428	0.095	0.092	0.253	0.031	0.487	0.302	0.424	0.023	0.410	0.301	0.915

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant0	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 850	Left cheek	0.285	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.830	0.713	0.588	0.471	0.695	0.345	0.662	0.797	0.680
	Left tilted	0.129	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.466	0.644	0.243	0.421	0.557	0.175	0.565	0.474	0.652
	Right cheek	0.211	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.671	0.675	0.460	0.464	0.569	0.330	0.552	0.654	0.658
	Right tilted	0.109	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.287	0.420	0.180	0.313	0.349	0.160	0.429	0.367	0.500
WCDMA Band V	Left cheek	0.299	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.844	0.727	0.602	0.485	0.709	0.359	0.676	0.811	0.694
	Left tilted	0.166	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.503	0.681	0.280	0.458	0.594	0.212	0.602	0.511	0.689
	Right cheek	0.282	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.742	0.746	0.531	0.535	0.640	0.401	0.623	0.725	0.729
	Right tilted	0.131	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.309	0.442	0.202	0.335	0.371	0.182	0.451	0.389	0.522
LTE Band 5	Left cheek	0.316	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.861	0.744	0.619	0.502	0.726	0.376	0.693	0.828	0.711
	Left tilted	0.184	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.521	0.699	0.298	0.476	0.612	0.230	0.620	0.529	0.707
	Right cheek	0.252	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.712	0.716	0.501	0.505	0.610	0.371	0.593	0.695	0.699
	Right tilted	0.179	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.357	0.490	0.250	0.383	0.419	0.230	0.499	0.437	0.570
LTE Band 12	Left cheek	0.191	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.736	0.619	0.494	0.377	0.601	0.251	0.568	0.703	0.586
	Left tilted	0.103	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.440	0.618	0.217	0.395	0.531	0.149	0.539	0.448	0.626
	Right cheek	0.164	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.624	0.628	0.413	0.417	0.522	0.283	0.505	0.607	0.611
	Right tilted	0.098	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.276	0.409	0.169	0.302	0.338	0.149	0.418	0.356	0.489
LTE Band 17	Left cheek	0.169	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.714	0.597	0.472	0.355	0.579	0.229	0.546	0.681	0.564
	Left tilted	0.101	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.438	0.616	0.215	0.393	0.529	0.147	0.537	0.446	0.624
	Right cheek	0.155	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.615	0.619	0.404	0.408	0.513	0.274	0.496	0.598	0.602
	Right tilted	0.094	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.272	0.405	0.165	0.298	0.334	0.145	0.414	0.352	0.485
LTE Band 26	Left cheek	0.396	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.941	0.824	0.699	0.582	0.806	0.456	0.773	0.908	0.791
	Left tilted	0.188	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.525	0.703	0.302	0.480	0.616	0.234	0.624	0.533	0.711
	Right cheek	0.306	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.766	0.770	0.555	0.559	0.664	0.425	0.647	0.749	0.753
	Right tilted	0.203	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.381	0.514	0.274	0.407	0.443	0.254	0.523	0.461	0.594
FR-1 n5	Left cheek	0.302	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.847	0.730	0.605	0.488	0.712	0.362	0.679	0.814	0.697
	Left tilted	0.159	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.496	0.674	0.273	0.451	0.587	0.205	0.595	0.504	0.682
	Right cheek	0.217	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.677	0.681	0.466	0.470	0.575	0.336	0.558	0.660	0.664
	Right tilted	0.147	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.325	0.458	0.218	0.351	0.387	0.198	0.467	0.405	0.538

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant1	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 850	Left cheek	0.491	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.036	0.919	0.794	0.677	0.901	0.551	0.868	1.003	0.886
	Left tilted	0.382	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.719	0.897	0.496	0.674	0.810	0.428	0.818	0.727	0.905
	Right cheek	0.431	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.891	0.895	0.680	0.684	0.789	0.550	0.772	0.874	0.878
	Right tilted	0.428	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.606	0.739	0.499	0.632	0.668	0.479	0.748	0.686	0.819
WCDMA Band V	Left cheek	0.377	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.922	0.805	0.680	0.563	0.787	0.437	0.754	0.889	0.772
	Left tilted	0.274	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.611	0.789	0.388	0.566	0.702	0.320	0.710	0.619	0.797
	Right cheek	0.000	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.460	0.464	0.249	0.253	0.358	0.119	0.341	0.443	0.447
	Right tilted	0.484	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.662	0.795	0.555	0.688	0.724	0.535	0.804	0.742	0.875
LTE Band 5	Left cheek	0.285	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.830	0.713	0.588	0.471	0.695	0.345	0.662	0.797	0.680
	Left tilted	0.182	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.519	0.697	0.296	0.474	0.610	0.228	0.618	0.527	0.705
	Right cheek	0.445	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.905	0.909	0.694	0.698	0.803	0.564	0.786	0.888	0.892
	Right tilted	0.389	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.567	0.700	0.460	0.593	0.629	0.440	0.709	0.647	0.780
LTE Band 12	Left cheek	0.527	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.072	0.955	0.830	0.713	0.937	0.587	0.904	1.039	0.922
	Left tilted	0.427	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.764	0.942	0.541	0.719	0.855	0.473	0.863	0.772	0.950
	Right cheek	1.093	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.553	1.557	1.342	1.346	1.451	1.212	1.434	1.536	1.540
	Right tilted	0.873	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.051	1.184	0.944	1.077	1.113	0.924	1.193	1.131	1.264
LTE Band 17	Left cheek	0.486	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.031	0.914	0.789	0.672	0.896	0.546	0.863	0.998	0.881
	Left tilted	0.392	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.729	0.907	0.506	0.684	0.820	0.438	0.828	0.737	0.915
	Right cheek	1.060	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.520	1.524	1.309	1.313	1.418	1.179	1.401	1.503	1.507
	Right tilted	0.799	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.977	1.110	0.870	1.003	1.039	0.850	1.119	1.057	1.190
LTE Band 26	Left cheek	0.199	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.744	0.627	0.502	0.385	0.609	0.259	0.576	0.711	0.594
	Left tilted	0.157	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.494	0.672	0.271	0.449	0.585	0.203	0.593	0.502	0.680
	Right cheek	0.488	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.948	0.952	0.737	0.741	0.846	0.607	0.829	0.931	0.935
	Right tilted	0.391	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.569	0.702	0.462	0.595	0.631	0.442	0.711	0.649	0.782
FR-1 n5	Left cheek	0.244	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.789	0.672	0.547	0.430	0.654	0.304	0.621	0.756	0.639
	Left tilted	0.194	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.531	0.709	0.308	0.486	0.622	0.240	0.630	0.539	0.717
	Right cheek	0.506	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.966	0.970	0.755	0.759	0.864	0.625	0.847	0.949	0.953
	Right tilted	0.407	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.585	0.718	0.478	0.611	0.647	0.458	0.727	0.665	0.798
FR-1 n77 (3450-3550)	Left cheek	0.263	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.808	0.691	0.566	0.449	0.673	0.323	0.640	0.775	0.658
	Left tilted	0.162	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.499	0.677	0.276	0.454	0.590	0.208	0.598	0.507	0.685
	Right cheek	0.887	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.347	1.351	1.136	1.140	1.245	1.006	1.228	1.330	1.334
	Right tilted	0.417	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.595	0.728	0.488	0.621	0.657	0.468	0.737	0.675	0.808
FR-1 n77 (3700-3980)	Left cheek	0.347	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.892	0.775	0.650	0.533	0.757	0.407	0.724	0.859	0.742
	Left tilted	0.197	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.534	0.712	0.311	0.489	0.625	0.243	0.633	0.542	0.720
	Right cheek	0.929	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.389	1.393	1.178	1.182	1.287	1.048	1.270	1.372	1.376
	Right tilted	0.685	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.863	0.996	0.756	0.889	0.925	0.736	1.005	0.943	1.076
FR-1 n78 (3450-3550)	Left cheek	0.125	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.670	0.553	0.428	0.311	0.535	0.185	0.502	0.637	0.520
	Left tilted	0.080	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.417	0.595	0.194	0.372	0.508	0.126	0.516	0.425	0.603
	Right cheek	0.492	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.952	0.956	0.741	0.745	0.850	0.611	0.833	0.935	0.939
	Right tilted	0.253	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.431	0.564	0.324	0.457	0.493	0.304	0.573	0.511	0.644
FR-1 n78(3700-3800)	Left cheek	0.223	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.768	0.651	0.526	0.409	0.633	0.283	0.600	0.735	0.618
	Left tilted	0.166	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.503	0.681	0.280	0.458	0.594	0.212	0.602	0.511	0.689
	Right cheek	0.558	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.018	1.022	0.807	0.811	0.916	0.677	0.899	1.001	1.005
	Right tilted	0.424	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.602	0.735	0.495	0.628	0.664	0.475	0.744	0.682	0.815

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

Test position		SARmax (W/kg)								Summed SAR							
		Main Ant3	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E								
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 1900	Left cheek	0.082	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.627	0.510	0.385	0.268	0.492	0.142	0.459	0.594	0.477
	Left tilted	0.032	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.369	0.547	0.146	0.324	0.460	0.078	0.468	0.377	0.555
	Right cheek	0.042	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.502	0.506	0.291	0.295	0.400	0.161	0.383	0.485	0.489
	Right tilted	0.033	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.211	0.344	0.104	0.237	0.273	0.084	0.353	0.291	0.424
WCDMA Band II	Left cheek	0.212	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.757	0.640	0.515	0.398	0.622	0.272	0.589	0.724	0.607
	Left tilted	0.052	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.389	0.567	0.166	0.344	0.480	0.098	0.488	0.397	0.575
	Right cheek	0.174	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.634	0.638	0.423	0.427	0.532	0.293	0.515	0.617	0.621
	Right tilted	0.081	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.259	0.392	0.152	0.285	0.321	0.132	0.401	0.339	0.472
WCDMA Band IV	Left cheek	0.137	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.682	0.565	0.440	0.323	0.547	0.197	0.514	0.649	0.532
	Left tilted	0.075	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.412	0.590	0.189	0.367	0.503	0.121	0.511	0.420	0.598
	Right cheek	0.129	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.589	0.593	0.378	0.382	0.487	0.248	0.470	0.572	0.576
	Right tilted	0.118	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.296	0.429	0.189	0.322	0.358	0.169	0.438	0.376	0.509
LTE Band 2	Left cheek	0.211	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.756	0.639	0.514	0.397	0.621	0.271	0.588	0.723	0.606
	Left tilted	0.056	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.393	0.571	0.170	0.348	0.484	0.102	0.492	0.401	0.579
	Right cheek	0.153	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.613	0.617	0.402	0.406	0.511	0.272	0.494	0.596	0.600
	Right tilted	0.080	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.258	0.391	0.151	0.284	0.320	0.131	0.400	0.338	0.471
LTE Band 4	Left cheek	0.173	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.718	0.601	0.476	0.359	0.583	0.233	0.550	0.685	0.568
	Left tilted	0.056	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.393	0.571	0.170	0.348	0.484	0.102	0.492	0.401	0.579
	Right cheek	0.130	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.590	0.594	0.379	0.383	0.488	0.249	0.471	0.573	0.577
	Right tilted	0.081	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.259	0.392	0.152	0.285	0.321	0.132	0.401	0.339	0.472
LTE Band 7	Left cheek	0.118	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.663	0.546	0.421	0.304	0.528	0.178	0.495	0.630	0.513
	Left tilted	0.118	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.455	0.633	0.232	0.410	0.546	0.164	0.554	0.463	0.641
	Right cheek	0.188	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.648	0.652	0.437	0.441	0.546	0.307	0.529	0.631	0.635
	Right tilted	0.060	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.238	0.371	0.131	0.264	0.300	0.111	0.380	0.318	0.451
LTE Band 38	Left cheek	0.098	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.643	0.526	0.401	0.284	0.508	0.158	0.475	0.610	0.493
	Left tilted	0.084	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.421	0.599	0.198	0.376	0.512	0.130	0.520	0.429	0.607
	Right cheek	0.116	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.576	0.580	0.365	0.369	0.474	0.235	0.457	0.559	0.563
	Right tilted	0.036	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.214	0.347	0.107	0.240	0.276	0.087	0.356	0.294	0.427
LTE Band 41	Left cheek	0.101	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.646	0.529	0.404	0.287	0.511	0.161	0.478	0.613	0.496
	Left tilted	0.084	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.421	0.599	0.198	0.376	0.512	0.130	0.520	0.429	0.607
	Right cheek	0.175	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.635	0.639	0.424	0.428	0.533	0.294	0.516	0.618	0.622
	Right tilted	0.036	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.214	0.347	0.107	0.240	0.276	0.087	0.356	0.294	0.427
FR-1 n7	Left cheek	0.152	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.697	0.580	0.455	0.338	0.562	0.212	0.529	0.664	0.547
	Left tilted	0.145	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.482	0.660	0.259	0.437	0.573	0.191	0.581	0.490	0.668
	Right cheek	0.240	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.700	0.704	0.489	0.493	0.598	0.359	0.581	0.683	0.687
	Right tilted	0.083	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.261	0.394	0.154	0.287	0.323	0.134	0.403	0.341	0.474
FR-1 n38	Left cheek	0.222	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.767	0.650	0.525	0.408	0.632	0.282	0.599	0.734	0.617
	Left tilted	0.189	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.526	0.704	0.303	0.481	0.617	0.235	0.625	0.534	0.712
	Right cheek	0.245	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.705	0.709	0.494	0.498	0.603	0.364	0.586	0.688	0.692
	Right tilted	0.104	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.282	0.415	0.175	0.308	0.344	0.155	0.424	0.362	0.495
FR-1 n41	Left cheek	0.166	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.711	0.594	0.469	0.352	0.576	0.226	0.543	0.678	0.561
	Left tilted	0.151	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.488	0.666	0.265	0.443	0.579	0.197	0.587	0.496	0.674
	Right cheek	0.236	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.696	0.700	0.485	0.489	0.594	0.355	0.577	0.679	0.683
	Right tilted	0.101	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.279	0.412	0.172	0.305	0.341	0.152	0.421	0.359	0.492

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

Test position		SARmax (W/kg)								Summed SAR							
		Main Ant4	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E								
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
LTE Band 4	Left cheek	0.536	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.081	0.964	0.839	0.722	0.946	0.596	0.913	1.048	0.931
	Left tilted	0.759	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.096	1.274	0.873	1.051	1.187	0.805	1.195	1.104	1.282
	Right cheek	0.967	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.427	1.431	1.216	1.220	1.325	1.086	1.308	1.410	1.414
	Right tilted	1.011	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.189	1.322	1.082	1.215	1.251	1.062	1.331	1.269	1.402
LTE Band 7	Left cheek	0.325	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.870	0.753	0.628	0.511	0.735	0.385	0.702	0.837	0.720
	Left tilted	0.370	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.707	0.885	0.484	0.662	0.798	0.416	0.806	0.715	0.893
	Right cheek	0.370	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.830	0.834	0.619	0.623	0.728	0.489	0.711	0.813	0.817
	Right tilted	0.501	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.679	0.812	0.572	0.705	0.741	0.552	0.821	0.759	0.892
LTE Band 38	Left cheek	0.299	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.844	0.727	0.602	0.485	0.709	0.359	0.676	0.811	0.694
	Left tilted	0.359	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.696	0.874	0.473	0.651	0.787	0.405	0.795	0.704	0.882
	Right cheek	0.422	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.882	0.886	0.671	0.675	0.780	0.541	0.763	0.865	0.869
	Right tilted	0.472	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.650	0.783	0.543	0.676	0.712	0.523	0.792	0.730	0.863
LTE Band 41	Left cheek	0.234	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.779	0.662	0.537	0.420	0.644	0.294	0.611	0.746	0.629
	Left tilted	0.286	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.623	0.801	0.400	0.578	0.714	0.332	0.722	0.631	0.809
	Right cheek	0.304	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.764	0.768	0.553	0.557	0.662	0.423	0.645	0.747	0.751
	Right tilted	0.428	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.606	0.739	0.499	0.632	0.668	0.479	0.748	0.686	0.819
FR-1 n7	Left cheek	0.728	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.273	1.156	1.031	0.914	1.138	0.788	1.105	1.240	1.123
	Left tilted	0.811	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.148	1.326	0.925	1.103	1.239	0.857	1.247	1.156	1.334
	Right cheek	0.747	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.207	1.211	0.996	1.000	1.105	0.866	1.088	1.190	1.194
	Right tilted	0.795	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.973	1.106	0.866	0.999	1.035	0.846	1.115	1.053	1.186
FR-1 n38	Left cheek	0.222	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.767	0.650	0.525	0.408	0.632	0.282	0.599	0.734	0.617
	Left tilted	0.189	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.526	0.704	0.303	0.481	0.617	0.235	0.625	0.534	0.712
	Right cheek	0.245	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.705	0.709	0.494	0.498	0.603	0.364	0.586	0.688	0.692
	Right tilted	0.104	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.282	0.415	0.175	0.308	0.344	0.155	0.424	0.362	0.495
FR-1 n41	Left cheek	0.700	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.245	1.128	1.003	0.886	1.110	0.760	1.077	1.212	1.095
	Left tilted	0.855	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.192	1.370	0.969	1.147	1.283	0.901	1.291	1.200	1.378
	Right cheek	0.824	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.284	1.288	1.073	1.077	1.182	0.943	1.165	1.267	1.271
	Right tilted	1.018	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.196	1.329	1.089	1.222	1.258	1.069	1.338	1.276	1.409

Test position		SARmax (W/kg)								Summed SAR							
		Main Ant5	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E								
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 1900	Left cheek	0.445	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.990	0.873	0.748	0.631	0.855	0.505	0.822	0.957	0.840
	Left tilted	0.068	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.405	0.583	0.182	0.360	0.496	0.114	0.504	0.413	0.591
	Right cheek	0.999	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.459	1.463	1.248	1.252	1.357	1.118	1.340	1.442	1.446
	Right tilted	0.153	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.331	0.464	0.224	0.357	0.393	0.204	0.473	0.411	0.544
WCDMA Band II	Left cheek	0.626	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.171	1.054	0.929	0.812	1.036	0.686	1.003	1.138	1.021
	Left tilted	0.083	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.420	0.598	0.197	0.375	0.511	0.129	0.519	0.428	0.606
	Right cheek	0.950	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.410	1.414	1.199	1.203	1.308	1.069	1.291	1.393	1.397
	Right tilted	0.158	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.336	0.469	0.229	0.362	0.398	0.209	0.478	0.416	0.549
WCDMA Band IV	Left cheek	0.272	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.817	0.700	0.575	0.458	0.682	0.332	0.649	0.784	0.667
	Left tilted	0.056	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.393	0.571	0.170	0.348	0.484	0.102	0.492	0.401	0.579
	Right cheek	0.157	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.617	0.621	0.406	0.410	0.515	0.276	0.498	0.600	0.604
	Right tilted	0.098	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.276	0.409	0.169	0.302	0.338	0.149	0.418	0.356	0.489
LTE Band 2	Left cheek	0.206	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.751	0.634	0.509	0.392	0.616	0.266	0.583	0.718	0.601
	Left tilted	0.036	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.373	0.551	0.150	0.328	0.464	0.082	0.472	0.381	0.559
	Right cheek	0.502	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.962	0.966	0.751	0.755	0.860	0.621	0.843	0.945	0.949
	Right tilted	0.069	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.247	0.380	0.140	0.273	0.309	0.120	0.389	0.327	0.460
LTE Band 4	Left cheek	0.319	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.864	0.747	0.622	0.505	0.729	0.379	0.696	0.831	0.714
	Left tilted	0.067	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.404	0.582	0.181	0.359	0.495	0.113	0.503	0.412	0.590
	Right cheek	0.630	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.090	1.094	0.879	0.883	0.988	0.749	0.971	1.073	1.077
	Right tilted	0.120	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.298	0.431	0.191	0.324	0.360	0.171	0.440	0.378	0.511
LTE Band 7	Left cheek	0.358	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.903	0.786	0.661	0.544	0.768	0.418	0.735	0.870	0.753
	Left tilted	0.063	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.400	0.578	0.177	0.355	0.491	0.109	0.499	0.408	0.586
	Right cheek	0.279	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.739	0.743	0.528	0.532	0.637	0.398	0.620	0.722	0.726
	Right tilted	0.190	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.368	0.501	0.261	0.394	0.430	0.241	0.510	0.448	0.581
LTE Band 38	Left cheek	0.286	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.831	0.714	0.589	0.472	0.696	0.346	0.663	0.798	0.681
	Left tilted	0.059	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.396	0.574	0.173	0.351	0.487	0.105	0.495	0.404	0.582
	Right cheek	0.541	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.001	1.005	0.790	0.794	0.899	0.660	0.882	0.984	0.988
	Right tilted	0.191	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.369	0.502	0.262	0.395	0.431	0.242	0.511	0.449	0.582
LTE Band 41	Left cheek	0.272	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.817	0.700	0.575	0.458	0.682	0.332	0.649	0.784	0.667
	Left tilted	0.038	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.375	0.553	0.152	0.330	0.466	0.084	0.474	0.383	0.561
	Right cheek	0.473	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.933	0.937	0.722	0.726	0.831	0.592	0.814	0.916	0.920
	Right tilted	0.095	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.273	0.406	0.166	0.299	0.335	0.146	0.415	0.353	0.486
FR-1 n7	Left cheek	0.199	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.744	0.627	0.502	0.385	0.609	0.259	0.576	0.711	0.594
	Left tilted	0.148	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.485	0.663	0.262	0.440	0.576	0.194	0.584	0.493	0.671
	Right cheek	1.063	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.523	1.527	1.312	1.316	1.421	1.182	1.404	1.506	1.510
	Right tilted	0.312	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.490	0.623	0.383	0.516	0.552	0.363	0.632	0.570	0.703
FR-1 n38	Left cheek	0.522	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.067	0.950	0.825	0.708	0.932	0.582	0.899	1.034	0.917
	Left tilted	0.089	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.426	0.604	0.203	0.381	0.517	0.135	0.525	0.434	0.612
	Right cheek	1.013	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.473	1.477	1.262	1.266	1.371	1.132	1.354	1.456	1.460
	Right tilted	0.194	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.372	0.505	0.265	0.398	0.434	0.245	0.514	0.452	0.585
FR-1 n41	Left cheek	0.451	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.996	0.879	0.754	0.637	0.861	0.511	0.828	0.963	0.846
	Left tilted	0.098	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.435	0.613	0.212	0.390	0.526	0.144	0.534	0.443	0.621
	Right cheek	0.584	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.044	1.048	0.833	0.837	0.942	0.703	0.925	1.027	1.031
	Right tilted	0.226	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.404	0.537	0.297	0.430	0.466	0.277	0.546	0.484	0.617

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant6	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
LTE Band 4	Left cheek	0.364	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.909	0.792	0.667	0.550	0.774	0.424	0.741	0.876	0.759
	Left tilted	0.138	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.475	0.653	0.252	0.430	0.566	0.184	0.574	0.483	0.661
	Right cheek	0.857	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.317	1.321	1.106	1.110	1.215	0.976	1.198	1.300	1.304
	Right tilted	0.138	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.316	0.449	0.209	0.342	0.378	0.189	0.458	0.396	0.529
LTE Band 7	Left cheek	0.107	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.652	0.535	0.410	0.293	0.517	0.167	0.484	0.619	0.502
	Left tilted	0.059	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.396	0.574	0.173	0.351	0.487	0.105	0.495	0.404	0.582
	Right cheek	0.518	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.978	0.982	0.767	0.771	0.876	0.637	0.859	0.961	0.965
	Right tilted	0.049	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.227	0.360	0.120	0.253	0.289	0.100	0.369	0.307	0.440
LTE Band 38	Left cheek	0.100	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.645	0.528	0.403	0.286	0.510	0.160	0.477	0.612	0.495
	Left tilted	0.067	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.404	0.582	0.181	0.359	0.495	0.113	0.503	0.412	0.590
	Right cheek	0.361	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.821	0.825	0.610	0.614	0.719	0.480	0.702	0.804	0.808
	Right tilted	0.112	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.290	0.423	0.183	0.316	0.352	0.163	0.432	0.370	0.503
LTE Band 41	Left cheek	0.107	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.652	0.535	0.410	0.293	0.517	0.167	0.484	0.619	0.502
	Left tilted	0.075	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.412	0.590	0.189	0.367	0.503	0.121	0.511	0.420	0.598
	Right cheek	0.371	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.831	0.835	0.620	0.624	0.729	0.490	0.712	0.814	0.818
	Right tilted	0.092	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.270	0.403	0.163	0.296	0.332	0.143	0.412	0.350	0.483
FR-1 n7	Left cheek	0.277	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.822	0.705	0.580	0.463	0.687	0.337	0.654	0.789	0.672
	Left tilted	0.219	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.556	0.734	0.333	0.511	0.647	0.265	0.655	0.564	0.742
	Right cheek	0.666	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.126	1.130	0.915	0.919	1.024	0.785	1.007	1.109	1.113
	Right tilted	0.146	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.324	0.457	0.217	0.350	0.386	0.197	0.466	0.404	0.537
FR-1 n38	Left cheek	0.408	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.953	0.836	0.711	0.594	0.818	0.468	0.785	0.920	0.803
	Left tilted	0.086	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.423	0.601	0.200	0.378	0.514	0.132	0.522	0.431	0.609
	Right cheek	0.597	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.057	1.061	0.846	0.850	0.955	0.716	0.938	1.040	1.044
	Right tilted	0.088	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.266	0.399	0.159	0.292	0.328	0.139	0.408	0.346	0.479
FR-1 n41	Left cheek	0.317	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.862	0.745	0.620	0.503	0.727	0.377	0.694	0.829	0.712
	Left tilted	0.092	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.429	0.607	0.206	0.384	0.520	0.138	0.528	0.437	0.615
	Right cheek	0.803	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.263	1.267	1.052	1.056	1.161	0.922	1.144	1.246	1.250
	Right tilted	0.149	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.327	0.460	0.220	0.353	0.389	0.200	0.469	0.407	0.540
FR-1 n77 (3450-3550)	Left cheek	0.108	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.653	0.536	0.411	0.294	0.518	0.168	0.485	0.620	0.503
	Left tilted	0.089	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.426	0.604	0.203	0.381	0.517	0.135	0.525	0.434	0.612
	Right cheek	0.389	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.849	0.853	0.638	0.642	0.747	0.508	0.730	0.832	0.836
	Right tilted	0.064	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.242	0.375	0.135	0.268	0.304	0.115	0.384	0.322	0.455
FR-1 n77 (3700-3980)	Left cheek	0.187	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.732	0.615	0.490	0.373	0.597	0.247	0.564	0.699	0.582
	Left tilted	0.095	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.432	0.610	0.209	0.387	0.523	0.141	0.531	0.440	0.618
	Right cheek	0.646	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.106	1.110	0.895	0.899	1.004	0.765	0.987	1.089	1.093
	Right tilted	0.104	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.282	0.415	0.175	0.308	0.344	0.155	0.424	0.362	0.495
FR-1 n78 (3450-3550)	Left cheek	0.060	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.605	0.488	0.363	0.246	0.470	0.120	0.437	0.572	0.455
	Left tilted	0.018	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.355	0.533	0.132	0.310	0.446	0.064	0.454	0.363	0.541
	Right cheek	0.163	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.623	0.627	0.412	0.416	0.521	0.282	0.504	0.606	0.610
	Right tilted	0.031	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.209	0.342	0.102	0.235	0.271	0.082	0.351	0.289	0.422
FR-1 n78(3700-3800)	Left cheek	0.065	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.610	0.493	0.368	0.251	0.475	0.125	0.442	0.577	0.460
	Left tilted	0.025	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.362	0.540	0.139	0.317	0.453	0.071	0.461	0.370	0.548
	Right cheek	0.361	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.821	0.825	0.610	0.614	0.719	0.480	0.702	0.804	0.808
	Right tilted	0.023	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.201	0.334	0.094	0.227	0.263	0.074	0.343	0.281	0.414

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant10	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
FR-1 n77 (3450-3550)	Left cheek	0.538	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.083	0.966	0.841	0.724	0.948	0.598	0.915	1.050	0.933
	Left tilted	0.521	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.858	1.036	0.635	0.813	0.949	0.567	0.957	0.866	1.044
	Right cheek	0.926	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.386	1.390	1.175	1.179	1.284	1.045	1.267	1.369	1.373
	Right tilted	0.889	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.067	1.200	0.960	1.093	1.129	0.940	1.209	1.147	1.280
FR-1 n77 (3700-3980)	Left cheek	0.259	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.804	0.687	0.562	0.445	0.669	0.319	0.636	0.771	0.654
	Left tilted	0.276	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.613	0.791	0.390	0.568	0.704	0.322	0.712	0.621	0.799
	Right cheek	0.725	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.185	1.189	0.974	0.978	1.083	0.844	1.066	1.168	1.172
	Right tilted	0.693	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.871	1.004	0.764	0.897	0.933	0.744	1.013	0.951	1.084
FR-1 n78 (3450-3550)	Left cheek	0.582	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.127	1.010	0.885	0.768	0.992	0.642	0.959	1.094	0.977
	Left tilted	0.542	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.879	1.057	0.656	0.834	0.970	0.588	0.978	0.887	1.065
	Right cheek	0.623	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.083	1.087	0.872	0.876	0.981	0.742	0.964	1.066	1.070
	Right tilted	0.792	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.970	1.103	0.863	0.996	1.032	0.843	1.112	1.050	1.183
FR-1 n78(3700-3800)	Left cheek	0.410	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.955	0.838	0.713	0.596	0.820	0.470	0.787	0.922	0.805
	Left tilted	0.426	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.763	0.941	0.540	0.718	0.854	0.472	0.862	0.771	0.949
	Right cheek	0.727	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.187	1.191	0.976	0.980	1.085	0.846	1.068	1.170	1.174
	Right tilted	0.683	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.861	0.994	0.754	0.887	0.923	0.734	1.003	0.941	1.074

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant11	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
FR-1 n77 (3450-3550)	Left cheek	0.299	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.844	0.727	0.602	0.485	0.709	0.359	0.676	0.811	0.694
	Left tilted	0.221	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.558	0.736	0.335	0.513	0.649	0.267	0.657	0.566	0.744
	Right cheek	0.970	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.430	1.434	1.219	1.223	1.328	1.089	1.311	1.413	1.417
	Right tilted	0.602	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.780	0.913	0.673	0.806	0.842	0.653	0.922	0.860	0.993
FR-1 n77 (3700-3980)	Left cheek	0.248	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.793	0.676	0.551	0.434	0.658	0.308	0.625	0.760	0.643
	Left tilted	0.206	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.543	0.721	0.320	0.498	0.634	0.252	0.642	0.551	0.729
	Right cheek	1.004	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.464	1.468	1.253	1.257	1.362	1.123	1.345	1.447	1.451
	Right tilted	0.733	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.911	1.044	0.804	0.937	0.973	0.784	1.053	0.991	1.124
FR-1 n78 (3450-3550)	Left cheek	0.000	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.545	0.428	0.303	0.186	0.410	0.060	0.377	0.512	0.395
	Left tilted	0.130	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.467	0.645	0.244	0.422	0.558	0.176	0.566	0.475	0.653
	Right cheek	0.259	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.719	0.723	0.508	0.512	0.617	0.378	0.600	0.702	0.706
	Right tilted	0.081	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.259	0.392	0.152	0.285	0.321	0.132	0.401	0.339	0.472
FR-1 n78(3700-3800)	Left cheek	0.162	0.139	0.031	0.271	0.029	0.274	0.157	0.238	0.707	0.590	0.465	0.348	0.572	0.222	0.539	0.674	0.557
	Left tilted	0.119	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.456	0.634	0.233	0.411	0.547	0.165	0.555	0.464	0.642
	Right cheek	0.530	0.126	0.098	0.232	0.021	0.228	0.232	0.215	0.990	0.994	0.779	0.783	0.888	0.649	0.871	0.973	0.977
	Right tilted	0.301	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.479	0.612	0.372	0.505	0.541	0.352	0.621	0.559	0.692

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Test position		SARmax (W/kg)								Summed SAR								
		Inter-band UL CA	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
CA_4A-7A	Left cheek	0.820	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.365	1.248	1.123	1.006	1.230	0.880	1.197	1.332	1.215
	Left tilted	0.712	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.049	1.227	0.826	1.004	1.140	0.758	1.148	1.057	1.235
	Right cheek	1.024	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.484	1.488	1.273	1.277	1.382	1.143	1.365	1.467	1.471
	Right tilted	0.925	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.103	1.236	0.996	1.129	1.165	0.976	1.245	1.183	1.316

Test position		SARmax (W/kg)								Summed SAR								
		EN-DC Max SAR	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
5N-7A	Left cheek	0.820	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.365	1.248	1.123	1.006	1.230	0.880	1.197	1.332	1.215
	Left tilted	0.712	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.049	1.227	0.826	1.004	1.140	0.758	1.148	1.057	1.235
	Right cheek	1.024	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.484	1.488	1.273	1.277	1.382	1.143	1.365	1.467	1.471
	Right tilted	0.925	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.103	1.236	0.996	1.129	1.165	0.976	1.245	1.183	1.316
7N-5A	Left cheek	0.924	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.469	1.352	1.227	1.110	1.334	0.984	1.301	1.436	1.319
	Left tilted	0.792	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.129	1.307	0.906	1.084	1.220	0.838	1.228	1.137	1.315
	Right cheek	1.053	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.513	1.517	1.302	1.306	1.411	1.172	1.394	1.496	1.500
	Right tilted	0.997	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.175	1.308	1.068	1.201	1.237	1.048	1.317	1.255	1.388
N78-2A	Left cheek	0.495	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.040	0.923	0.798	0.681	0.905	0.555	0.872	1.007	0.890
	Left tilted	0.338	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.675	0.853	0.452	0.630	0.766	0.384	0.774	0.683	0.861
	Right cheek	1.060	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.520	1.524	1.309	1.313	1.418	1.179	1.401	1.503	1.507
	Right tilted	0.567	0.119	0.037	0.121	0.014	0.057	0.190	0.201	0.745	0.878	0.638	0.771	0.807	0.618	0.887	0.825	0.958
N78-5A	Left cheek	0.600	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.145	1.028	0.903	0.786	1.010	0.660	0.977	1.112	0.995
	Left tilted	0.466	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.803	0.981	0.580	0.758	0.894	0.512	0.902	0.811	0.989
	Right cheek	1.003	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.463	1.467	1.252	1.256	1.361	1.122	1.344	1.446	1.450
	Right tilted	0.876	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.054	1.187	0.947	1.080	1.116	0.927	1.196	1.134	1.267
N78-7A	Left cheek	0.802	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.347	1.230	1.105	0.988	1.212	0.862	1.179	1.314	1.197
	Left tilted	0.800	0.172	0.013	0.256	0.033	0.081	0.259	0.264	1.137	1.315	0.914	1.092	1.228	0.846	1.236	1.145	1.323
	Right cheek	1.076	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.536	1.540	1.325	1.329	1.434	1.195	1.417	1.519	1.523
	Right tilted	1.005	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.183	1.316	1.076	1.209	1.245	1.056	1.325	1.263	1.396
N78-38A	Left cheek	0.583	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.128	1.011	0.886	0.769	0.993	0.643	0.960	1.095	0.978
	Left tilted	0.641	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.978	1.156	0.755	0.933	1.069	0.687	1.077	0.986	1.164
	Right cheek	1.099	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.559	1.563	1.348	1.352	1.457	1.218	1.440	1.542	1.546
	Right tilted	0.959	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.137	1.270	1.030	1.163	1.199	1.010	1.279	1.217	1.350
N78-41A	Left cheek	0.556	0.139	0.031	0.271	0.029	0.274	0.157	0.238	1.101	0.984	0.859	0.742	0.966	0.616	0.933	1.068	0.951
	Left tilted	0.568	0.172	0.013	0.256	0.033	0.081	0.259	0.264	0.905	1.083	0.682	0.860	0.996	0.614	1.004	0.913	1.091
	Right cheek	1.031	0.126	0.098	0.232	0.021	0.228	0.232	0.215	1.491	1.495	1.280	1.284	1.389	1.150	1.372	1.474	1.478
	Right tilted	0.915	0.119	0.037	0.121	0.014	0.057	0.190	0.201	1.093	1.226	0.986	1.119	1.155	0.966	1.235	1.173	1.306

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Simultaneous Transmission SAR Summation Scenario for WLAN Body:
Body-worn:

LTE Band	Exposure position	Ant4	Ant6	Band 4		Summed SAR
				Ant4	Ant6	
Band 7	Front side	0.449	0.086	0.467	0.512	0.961
	Back side	0.575	0.500	0.467	0.512	1.087

LTE Band (EN_DC)	Exposure position	Ant3	Ant4	Ant5	Ant6	n5		EN_DC Summed SAR
						Ant0	Ant1	
Band 7	Front side	0.173	0.473	0.227	0.500	0.244	0.252	0.752
	Back side	0.173	0.473	0.227	0.500	0.248	0.304	0.804

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n7				EN_DC Summed SAR
				Ant3	Ant4	Ant5	Ant6	
Band 5	Front side	0.305	0.263	0.428	0.438	0.170	0.474	0.779
	Back side	0.265	0.296	0.428	0.438	0.170	0.474	0.770

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant3	Ant4	Ant5	Ant6	n78(3450-3550)				n78(3700-3800)				EN_DC Summed SAR
								Ant1	Ant6	Ant10	Ant11	Ant1	Ant6	Ant10	Ant11	
Band 2	Front side	/	/	0.193	/	0.263	/	0.425	0.102	0.269	0.315	0.483	0.133	0.344	0.347	0.746
	Back side	/	/	0.219	/	0.296	/	0.484	0.135	0.589	0.559	0.534	0.138	0.586	0.388	0.885
Band 5	Front side	0.305	0.263	/	/	/	/	0.425	0.102	0.269	0.315	0.483	0.133	0.344	0.347	0.788
	Back side	0.265	0.296	/	/	/	/	0.484	0.135	0.589	0.559	0.534	0.138	0.586	0.388	0.885
Band 7	Front side	/	/	0.173	0.473	0.227	0.500	0.425	0.102	0.269	0.315	0.483	0.133	0.344	0.347	0.983
	Back side	/	/	0.173	0.473	0.227	0.500	0.484	0.135	0.589	0.559	0.534	0.138	0.586	0.388	1.089
Band 38	Front side	/	/	0.149	0.365	0.193	0.104	0.425	0.102	0.269	0.315	0.483	0.133	0.344	0.347	0.848
	Back side	/	/	0.189	0.462	0.331	0.143	0.484	0.135	0.589	0.559	0.534	0.138	0.586	0.388	1.051
Band 41	Front side	/	/	0.115	0.283	0.202	0.098	0.425	0.102	0.269	0.315	0.483	0.133	0.344	0.347	0.766
	Back side	/	/	0.159	0.339	0.301	0.142	0.484	0.135	0.589	0.559	0.534	0.138	0.586	0.388	0.928

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Test position		SARmax (W/kg)								Summed SAR								
		Main Ant0	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 850	Front side	0.226	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.299	0.260	0.491	0.452	0.351	0.465	0.529	0.477	0.438
	Back side	0.227	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.485	0.439	0.543	0.497	0.528	0.619	0.650	0.607	0.561
WCDMA Band V	Front side	0.273	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.346	0.307	0.538	0.499	0.398	0.512	0.576	0.524	0.485
	Back side	0.274	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.532	0.486	0.590	0.544	0.575	0.666	0.697	0.654	0.608
LTE Band 5	Front side	0.305	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.378	0.339	0.570	0.531	0.430	0.544	0.608	0.556	0.517
	Back side	0.265	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.523	0.477	0.581	0.535	0.566	0.657	0.688	0.645	0.599
LTE Band 12	Front side	0.245	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.318	0.279	0.510	0.471	0.370	0.484	0.548	0.496	0.457
	Back side	0.216	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.474	0.428	0.532	0.486	0.517	0.608	0.639	0.596	0.550
LTE Band 17	Front side	0.235	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.308	0.269	0.500	0.461	0.360	0.474	0.538	0.486	0.447
	Back side	0.204	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.462	0.416	0.520	0.474	0.505	0.596	0.627	0.584	0.538
LTE Band 26	Front side	0.334	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.407	0.368	0.599	0.560	0.459	0.573	0.637	0.585	0.546
	Back side	0.403	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.661	0.615	0.719	0.673	0.704	0.795	0.826	0.783	0.737
FR-1 n5	Front side	0.244	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.317	0.278	0.509	0.470	0.369	0.483	0.547	0.495	0.456
	Back side	0.248	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.506	0.460	0.564	0.518	0.549	0.640	0.671	0.628	0.582

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant1	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 850	Front side	0.241	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.314	0.275	0.506	0.467	0.366	0.480	0.544	0.492	0.453
	Back side	0.256	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.514	0.468	0.572	0.526	0.557	0.648	0.679	0.636	0.590
WCDMA Band V	Front side	0.305	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.378	0.339	0.570	0.531	0.430	0.544	0.608	0.556	0.517
	Back side	0.325	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.583	0.537	0.641	0.595	0.626	0.717	0.748	0.705	0.659
LTE Band 5	Front side	0.263	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.336	0.297	0.528	0.489	0.388	0.502	0.566	0.514	0.475
	Back side	0.296	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.554	0.508	0.612	0.566	0.597	0.688	0.719	0.676	0.630
LTE Band 12	Front side	0.198	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.271	0.232	0.463	0.424	0.323	0.437	0.501	0.449	0.410
	Back side	0.210	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.468	0.422	0.526	0.480	0.511	0.602	0.633	0.590	0.544
LTE Band 17	Front side	0.198	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.271	0.232	0.463	0.424	0.323	0.437	0.501	0.449	0.410
	Back side	0.228	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.486	0.440	0.544	0.498	0.529	0.620	0.651	0.608	0.562
LTE Band 26	Front side	0.173	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.246	0.207	0.438	0.399	0.298	0.412	0.476	0.424	0.385
	Back side	0.218	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.476	0.430	0.534	0.488	0.519	0.610	0.641	0.598	0.552
FR-1 n5	Front side	0.252	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.325	0.286	0.517	0.478	0.377	0.491	0.555	0.503	0.464
	Back side	0.304	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.562	0.516	0.620	0.574	0.605	0.696	0.727	0.684	0.638
FR-1 n77 (3450-3550)	Front side	0.159	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.232	0.193	0.424	0.385	0.284	0.398	0.462	0.410	0.371
	Back side	0.072	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.330	0.284	0.388	0.342	0.373	0.464	0.495	0.452	0.406
FR-1 n77 (3700-3980)	Front side	0.226	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.299	0.260	0.491	0.452	0.351	0.465	0.529	0.477	0.438
	Back side	0.157	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.415	0.369	0.473	0.427	0.458	0.549	0.580	0.537	0.491
FR-1 n78 (3450-3550)	Front side	0.425	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.498	0.459	0.690	0.651	0.550	0.664	0.728	0.676	0.637
	Back side	0.484	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.742	0.696	0.800	0.754	0.785	0.876	0.907	0.864	0.818
FR-1 n78(3700-3800)	Front side	0.483	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.556	0.517	0.748	0.709	0.608	0.722	0.786	0.734	0.695
	Back side	0.534	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.792	0.746	0.850	0.804	0.835	0.926	0.957	0.914	0.868

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant3	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 1900	Front side	0.307	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.380	0.341	0.572	0.533	0.432	0.546	0.610	0.558	0.519
	Back side	0.323	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.581	0.535	0.639	0.593	0.624	0.715	0.746	0.703	0.657
WCDMA Band II	Front side	0.160	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.233	0.194	0.425	0.386	0.285	0.399	0.463	0.411	0.372
	Back side	0.196	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.454	0.408	0.512	0.466	0.497	0.588	0.619	0.576	0.530
WCDMA Band IV	Front side	0.225	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.298	0.259	0.490	0.451	0.350	0.464	0.528	0.476	0.437
	Back side	0.276	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.534	0.488	0.592	0.546	0.577	0.668	0.699	0.656	0.610
LTE Band 2	Front side	0.193	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.266	0.227	0.458	0.419	0.318	0.432	0.496	0.444	0.405
	Back side	0.219	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.477	0.431	0.535	0.489	0.520	0.611	0.642	0.599	0.553
LTE Band 4	Front side	0.046	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.119	0.080	0.311	0.272	0.171	0.285	0.349	0.297	0.258
	Back side	0.063	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.321	0.275	0.379	0.333	0.364	0.455	0.486	0.443	0.397
LTE Band 7	Front side	0.096	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.169	0.130	0.361	0.322	0.221	0.335	0.399	0.347	0.308
	Back side	0.173	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.431	0.385	0.489	0.443	0.474	0.565	0.596	0.553	0.507
LTE Band 38	Front side	0.149	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.222	0.183	0.414	0.375	0.274	0.388	0.452	0.400	0.361
	Back side	0.189	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.447	0.401	0.505	0.459	0.490	0.581	0.612	0.569	0.523
LTE Band 41	Front side	0.115	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.188	0.149	0.380	0.341	0.240	0.354	0.418	0.366	0.327
	Back side	0.159	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.417	0.371	0.475	0.429	0.460	0.551	0.582	0.539	0.493
FR-1 n7	Front side	0.579	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.652	0.613	0.844	0.805	0.704	0.818	0.882	0.830	0.791
	Back side	0.675	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.933	0.887	0.991	0.945	0.976	1.067	1.098	1.055	1.009
FR-1 n38	Front side	0.060	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.133	0.094	0.325	0.286	0.185	0.299	0.363	0.311	0.272
	Back side	0.581	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.839	0.793	0.897	0.851	0.882	0.973	1.004	0.961	0.915
FR-1 n41	Front side	0.554	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.627	0.588	0.819	0.780	0.679	0.793	0.857	0.805	0.766
	Back side	0.988	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.246	1.200	1.304	1.258	1.289	1.380	1.411	1.368	1.322

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant4	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
LTE Band 4	Front side	0.478	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.551	0.512	0.743	0.704	0.603	0.717	0.781	0.729	0.690
	Back side	0.705	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.963	0.917	1.021	0.975	1.006	1.097	1.128	1.085	1.039
LTE Band 7	Front side	0.449	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.522	0.483	0.714	0.675	0.574	0.688	0.752	0.700	0.661
	Back side	0.575	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.833	0.787	0.891	0.845	0.876	0.967	0.998	0.955	0.909
LTE Band 38	Front side	0.365	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.438	0.399	0.630	0.591	0.490	0.604	0.668	0.616	0.577
	Back side	0.462	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.720	0.674	0.778	0.732	0.763	0.854	0.885	0.842	0.796
LTE Band 41	Front side	0.283	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.356	0.317	0.548	0.509	0.408	0.522	0.586	0.534	0.495
	Back side	0.339	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.597	0.551	0.655	0.609	0.640	0.731	0.762	0.719	0.673
FR-1 n7	Front side	0.417	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.490	0.451	0.682	0.643	0.542	0.656	0.720	0.668	0.629
	Back side	0.438	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.696	0.650	0.754	0.708	0.739	0.830	0.861	0.818	0.772
FR-1 n38	Front side	0.060	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.133	0.094	0.325	0.286	0.185	0.299	0.363	0.311	0.272
	Back side	0.581	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.839	0.793	0.897	0.851	0.882	0.973	1.004	0.961	0.915
FR-1 n41	Front side	0.533	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.606	0.567	0.798	0.759	0.658	0.772	0.836	0.784	0.745
	Back side	0.593	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.851	0.805	0.909	0.863	0.894	0.985	1.016	0.973	0.927

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant5	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
GSM 1900	Front side	0.151	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.224	0.185	0.416	0.377	0.276	0.390	0.454	0.402	0.363
	Back side	0.166	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.424	0.378	0.482	0.436	0.467	0.558	0.589	0.546	0.500
WCDMA Band II	Front side	0.200	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.273	0.234	0.465	0.426	0.325	0.439	0.503	0.451	0.412
	Back side	0.514	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.772	0.726	0.830	0.784	0.815	0.906	0.937	0.894	0.848
WCDMA Band IV	Front side	0.064	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.137	0.098	0.329	0.290	0.189	0.303	0.367	0.315	0.276
	Back side	0.065	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.323	0.277	0.381	0.335	0.366	0.457	0.488	0.445	0.399
LTE Band 2	Front side	0.382	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.455	0.416	0.647	0.608	0.507	0.621	0.685	0.633	0.594
	Back side	0.185	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.443	0.397	0.501	0.455	0.486	0.577	0.608	0.565	0.519
LTE Band 4	Front side	0.047	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.120	0.081	0.312	0.273	0.172	0.286	0.350	0.298	0.259
	Back side	0.064	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.322	0.276	0.380	0.334	0.365	0.456	0.487	0.444	0.398
LTE Band 7	Front side	0.160	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.233	0.194	0.425	0.386	0.285	0.399	0.463	0.411	0.372
	Back side	0.578	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.836	0.790	0.894	0.848	0.879	0.970	1.001	0.958	0.912
LTE Band 38	Front side	0.193	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.266	0.227	0.458	0.419	0.318	0.432	0.496	0.444	0.405
	Back side	0.331	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.589	0.543	0.647	0.601	0.632	0.723	0.754	0.711	0.665
LTE Band 41	Front side	0.202	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.275	0.236	0.467	0.428	0.327	0.441	0.505	0.453	0.414
	Back side	0.301	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.559	0.513	0.617	0.571	0.602	0.693	0.724	0.681	0.635
FR-1 n7	Front side	0.431	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.504	0.465	0.696	0.657	0.556	0.670	0.734	0.682	0.643
	Back side	0.776	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.034	0.988	1.092	1.046	1.077	1.168	1.199	1.156	1.110
FR-1 n38	Front side	0.411	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.484	0.445	0.676	0.637	0.536	0.650	0.714	0.662	0.623
	Back side	0.714	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.972	0.926	1.030	0.984	1.015	1.106	1.137	1.094	1.048
FR-1 n41	Front side	0.436	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.509	0.470	0.701	0.662	0.561	0.675	0.739	0.687	0.648
	Back side	0.000	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.258	0.212	0.316	0.270	0.301	0.392	0.423	0.380	0.334

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant6	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
LTE Band 4	Front side	0.327	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.400	0.361	0.592	0.553	0.452	0.566	0.630	0.578	0.539
	Back side	0.512	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.770	0.724	0.828	0.782	0.813	0.904	0.935	0.892	0.846
LTE Band 7	Front side	0.086	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.159	0.120	0.351	0.312	0.211	0.325	0.389	0.337	0.298
	Back side	0.500	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.758	0.712	0.816	0.770	0.801	0.892	0.923	0.880	0.834
LTE Band 38	Front side	0.104	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.177	0.138	0.369	0.330	0.229	0.343	0.407	0.355	0.316
	Back side	0.143	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.401	0.355	0.459	0.413	0.444	0.535	0.566	0.523	0.477
LTE Band 41	Front side	0.098	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.171	0.132	0.363	0.324	0.223	0.337	0.401	0.349	0.310
	Back side	0.142	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.400	0.354	0.458	0.412	0.443	0.534	0.565	0.522	0.476
FR-1 n7	Front side	0.062	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.135	0.096	0.327	0.288	0.187	0.301	0.365	0.313	0.274
	Back side	0.474	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.732	0.686	0.790	0.744	0.775	0.866	0.897	0.854	0.808
FR-1 n38	Front side	0.073	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.146	0.107	0.338	0.299	0.198	0.312	0.376	0.324	0.285
	Back side	0.105	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.363	0.317	0.421	0.375	0.406	0.497	0.528	0.485	0.439
FR-1 n41	Front side	0.226	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.299	0.260	0.491	0.452	0.351	0.465	0.529	0.477	0.438
	Back side	0.333	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.591	0.545	0.649	0.603	0.634	0.725	0.756	0.713	0.667
FR-1 n77 (3450-3550)	Front side	0.020	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.093	0.054	0.285	0.246	0.145	0.259	0.323	0.271	0.232
	Back side	0.075	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.333	0.287	0.391	0.345	0.376	0.467	0.498	0.455	0.409
FR-1 n77 (3700-3980)	Front side	0.127	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.200	0.161	0.392	0.353	0.252	0.366	0.430	0.378	0.339
	Back side	0.119	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.377	0.331	0.435	0.389	0.420	0.511	0.542	0.499	0.453
FR-1 n78 (3450-3550)	Front side	0.102	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.175	0.136	0.367	0.328	0.227	0.341	0.405	0.353	0.314
	Back side	0.135	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.393	0.347	0.451	0.405	0.436	0.527	0.558	0.515	0.469
FR-1 n78(3700-3800)	Front side	0.133	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.206	0.167	0.398	0.359	0.258	0.372	0.436	0.384	0.345
	Back side	0.138	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.396	0.350	0.454	0.408	0.439	0.530	0.561	0.518	0.472

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant10	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
FR-1 n77 (3450-3550)	Front side	0.345	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.418	0.379	0.610	0.571	0.470	0.584	0.648	0.596	0.557
	Back side	0.731	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.989	0.943	1.047	1.001	1.032	1.123	1.154	1.111	1.065
FR-1 n77 (3700-3980)	Front side	0.073	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.146	0.107	0.338	0.299	0.198	0.312	0.376	0.324	0.285
	Back side	0.142	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.400	0.354	0.458	0.412	0.443	0.534	0.565	0.522	0.476
FR-1 n78 (3450-3550)	Front side	0.269	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.342	0.303	0.534	0.495	0.394	0.508	0.572	0.520	0.481
	Back side	0.589	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.847	0.801	0.905	0.859	0.890	0.981	1.012	0.969	0.923
FR-1 n78(3700-3800)	Front side	0.344	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.417	0.378	0.609	0.570	0.469	0.583	0.647	0.595	0.556
	Back side	0.586	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.844	0.798	0.902	0.856	0.887	0.978	1.009	0.966	0.920

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant11	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
FR-1 n77 (3450-3550)	Front side	0.248	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.321	0.282	0.513	0.474	0.373	0.487	0.551	0.499	0.460
	Back side	0.545	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.803	0.757	0.861	0.815	0.846	0.937	0.968	0.925	0.879
FR-1 n77 (3700-3980)	Front side	0.286	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.359	0.320	0.551	0.512	0.411	0.525	0.589	0.537	0.498
	Back side	0.622	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.880	0.834	0.938	0.892	0.923	1.014	1.045	1.002	0.956
FR-1 n78 (3450-3550)	Front side	0.315	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.388	0.349	0.580	0.541	0.440	0.554	0.618	0.566	0.527
	Back side	0.559	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.817	0.771	0.875	0.829	0.860	0.951	0.982	0.939	0.893
FR-1 n78(3700-3800)	Front side	0.347	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.420	0.381	0.612	0.573	0.472	0.586	0.650	0.598	0.559
	Back side	0.388	0.126	0.159	0.175	0.233	0.083	0.037	0.297	0.646	0.600	0.704	0.658	0.689	0.780	0.811	0.768	0.722

Test position		SARmax (W/kg)								Summed SAR								
		Inter-band UL CA	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+2	1+3	1+4	1+5	1+6	1+7	1+2+8	1+6+8	1+7+8
CA_4A-7A	Front side	0.961	0.122	0.044	0.003	0.195	0.070	0.031	0.181	1.034	0.995	1.226	1.187	1.086	1.200	1.264	1.212	1.173
	Back side	1.087	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.345	1.299	1.403	1.357	1.388	1.479	1.510	1.467	1.421

Test position		SARmax (W/kg)								Summed SAR								
		EN-DC Max SAR	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+2	1+3	1+4	1+5	1+6	1+7	1+2+8	1+6+8	1+7+8
5N-7A	Front side	0.752	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.825	0.786	1.017	0.978	0.877	0.991	1.055	1.003	0.964
	Back side	0.804	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.062	1.016	1.120	1.074	1.105	1.196	1.227	1.184	1.138
7N-5A	Front side	0.779	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.852	0.813	1.044	1.005	0.904	1.018	1.082	1.030	0.991
	Back side	0.770	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.028	0.982	1.086	1.040	1.071	1.162	1.193	1.150	1.104
N78-2A	Front side	0.746	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.819	0.780	1.011	0.972	0.871	0.985	1.049	0.997	0.958
	Back side	0.885	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.143	1.097	1.201	1.155	1.186	1.277	1.308	1.265	1.219
N78-5A	Front side	0.788	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.861	0.822	1.053	1.014	0.913	1.027	1.091	1.039	1.000
	Back side	0.885	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.143	1.097	1.201	1.155	1.186	1.277	1.308	1.265	1.219
N78-7A	Front side	0.983	0.122	0.044	0.003	0.195	0.070	0.031	0.181	1.056	1.017	1.248	1.209	1.108	1.222	1.286	1.234	1.195
	Back side	1.089	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.347	1.301	1.405	1.359	1.390	1.481	1.512	1.469	1.423
N78-38A	Front side	0.848	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.921	0.882	1.113	1.074	0.973	1.087	1.151	1.099	1.060
	Back side	1.051	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.309	1.263	1.367	1.321	1.352	1.443	1.474	1.431	1.385
N78-41A	Front side	0.766	0.122	0.044	0.003	0.195	0.070	0.031	0.181	0.839	0.800	1.031	0.992	0.891	1.005	1.069	1.017	0.978
	Back side	0.928	0.126	0.159	0.175	0.233	0.083	0.037	0.297	1.186	1.140	1.244	1.198	1.229	1.320	1.351	1.308	1.262

Hotspot:

LTE Band	Exposure position	Ant4	Ant6	Band 4		Summed SAR
				Ant4	Ant6	
Band 7	Front side	0.101	0.247	0.336	0.454	0.701
	Back side	0.216	0.345	0.336	0.454	0.799
	Left side	0.178		0.336	0.454	0.632
	Right side		0.644	0.336	0.454	1.098
	Top side	0.167		0.336	0.454	0.621
	Bottom side		0.054	0.336	0.454	0.508

LTE Band (EN_DC)	Exposure position	Ant3	Ant4	Ant5	Ant6	n5		EN_DC Summed SAR
						Ant0	Ant1	
Band 7	Front side	0.105	0.262	0.204	0.492	0.423	0.125	0.915
	Back side	0.105	0.262	0.204	0.492	0.453	0.127	0.945
	Left side	0.105	0.262	0.204	0.492	0.301	0.107	0.793
	Right side	0.105	0.262	0.204	0.492	0.155	/	0.647
	Top side	0.105	0.262	0.204	0.492	/	0.105	0.597
	Bottom side	0.105	0.262	0.204	0.492	0.205	/	0.697

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n7				EN_DC Summed SAR
				Ant3	Ant4	Ant5	Ant6	
Band 5	Front side	0.464	0.161	0.176	0.334	0.104	0.390	0.854
	Back side	0.463	0.164	0.176	0.334	0.104	0.390	0.853
	Left side	0.412	0.163	0.176	0.334	0.104	0.390	0.802
	Right side	0.160	/	0.176	0.334	0.104	0.390	0.550
	Top side	/	0.004	0.176	0.334	0.104	0.390	0.394
	Bottom side	0.253	/	0.176	0.334	0.104	0.390	0.643

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant3	Ant4	Ant5	Ant6	n78(3450-3550)				n78(3700-3800)				EN_DC Summed SAR
								Ant1	Ant6	Ant10	Ant11	Ant1	Ant6	Ant10	Ant11	
Band 2	Front side	/	/	0.144	/	0.120	/	0.074	0.161	0.053	0.130	0.096	0.223	0.037	0.080	0.367
	Back side	/	/	0.190	/	0.140	/	0.046	0.179	0.176	0.259	0.056	0.227	0.061	0.142	0.449
	Left side	/	/	0.033	/	0.278	/	0.046	/	0.065	0.081	0.035	/	0.015	0.046	0.359
	Right side	/	/	0.110	/	/	/	/	0.255	0.009	0.004	/	0.320	0.002	0.001	0.430
	Top side	/	/	/	/	0.008	/	0.012	/	0.119	0.057	0.048	/	0.090	0.058	0.127
	Bottom side	/	/	0.287	/	/	/	/	0.037	/	/	/	0.046	/	/	0.333
Band 5	Front side	0.464	0.161	/	/	/	/	0.074	0.161	0.053	0.130	0.096	0.223	0.037	0.080	0.687
	Back side	0.463	0.164	/	/	/	/	0.046	0.179	0.176	0.259	0.056	0.227	0.061	0.142	0.722
	Left side	0.412	0.163	/	/	/	/	0.046	/	0.065	0.081	0.035	/	0.015	0.046	0.493
	Right side	0.160	/	/	/	/	/	/	0.255	0.009	0.004	/	0.320	0.002	0.001	0.480
	Top side	/	/	/	/	/	/	0.012	/	0.119	0.057	0.048	/	0.090	0.058	0.119
	Bottom side	/	/	/	/	/	/	/	0.037	/	/	/	0.046	/	/	0.046
Band 7	Front side	/	/	0.105	0.262	0.204	0.492	0.074	0.161	0.053	0.130	0.096	0.223	0.037	0.080	0.715
	Back side	/	/	0.105	0.262	0.204	0.492	0.046	0.179	0.176	0.259	0.056	0.227	0.061	0.142	0.751
	Left side	/	/	0.105	0.262	0.204	0.492	0.046	/	0.065	0.081	0.035	/	0.015	0.046	0.573
	Right side	/	/	0.105	0.262	0.204	0.492	/	0.255	0.009	0.004	/	0.320	0.002	0.001	0.812
	Top side	/	/	0.105	0.262	0.204	0.492	0.012	/	0.119	0.057	0.048	/	0.090	0.058	0.611
	Bottom side	/	/	0.105	0.262	0.204	0.492	/	0.037	/	/	/	0.046	/	/	0.538
Band 38	Front side	/	/	0.221	0.105	0.149	0.198	0.074	0.161	0.053	0.130	0.096	0.223	0.037	0.080	0.444
	Back side	/	/	0.264	0.094	0.174	0.321	0.046	0.179	0.176	0.259	0.056	0.227	0.061	0.142	0.580
	Left side	/	/	0.012	0.024	0.170	/	0.046	/	0.065	0.081	0.035	/	0.015	0.046	0.251
	Right side	/	/	0.121	0.021	/	0.422	/	0.255	0.009	0.004	/	0.320	0.002	0.001	0.742
	Top side	/	/	/	0.223	0.013	/	0.012	/	0.119	0.057	0.048	/	0.090	0.058	0.342
	Bottom side	/	/	0.295	/	/	0.053	/	0.037	/	/	/	0.046	/	/	0.341
Band 41	Front side	/	/	0.095	0.085	0.163	0.244	0.074	0.161	0.053	0.130	0.096	0.223	0.037	0.080	0.467
	Back side	/	/	0.316	0.084	0.158	0.409	0.046	0.179	0.176	0.259	0.056	0.227	0.061	0.142	0.668
	Left side	/	/	0.054	0.027	0.168	/	0.046	/	0.065	0.081	0.035	/	0.015	0.046	0.249
	Right side	/	/	0.117	0.016	/	0.581	/	0.255	0.009	0.004	/	0.320	0.002	0.001	0.901
	Top side	/	/	/	0.180	0.014	/	0.012	/	0.119	0.057	0.048	/	0.090	0.058	0.299
	Bottom side	/	/	0.374	/	/	0.049	/	0.037	/	/	/	0.046	/	/	0.420

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
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Test position		SARmax (W/kg)							Summed SAR					
		Main Ant0	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
GSM 850	Front side	0.525	0.220	0.096	0.015	0.314	0.129	0.059	0.745	0.621	0.540	0.839	0.654	0.584
	Back side	0.521	0.292	0.385	0.235	0.388	0.167	0.064	0.813	0.906	0.756	0.909	0.688	0.585
	Left side	0.629	0.044	0.237	0.029	0.027	0.001	0.009	0.673	0.866	0.658	0.656	0.630	0.638
	Right side	0.285	0.216	0.004	0.098	0.097	0.231	0.042	0.501	0.289	0.383	0.382	0.516	0.327
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.312							0.312	0.312	0.312	0.312	0.312	0.312
WCDMA Band V	Front side	0.580	0.220	0.096	0.015	0.314	0.129	0.059	0.800	0.676	0.595	0.894	0.709	0.639
	Back side	0.538	0.292	0.385	0.235	0.388	0.167	0.064	0.830	0.923	0.773	0.926	0.705	0.602
	Left side	0.556	0.044	0.237	0.029	0.027	0.001	0.009	0.600	0.793	0.585	0.583	0.557	0.565
	Right side	0.218	0.216	0.004	0.098	0.097	0.231	0.042	0.434	0.222	0.316	0.315	0.449	0.260
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.306							0.306	0.306	0.306	0.306	0.306	0.306
LTE Band 5	Front side	0.464	0.220	0.096	0.015	0.314	0.129	0.059	0.684	0.560	0.479	0.778	0.593	0.523
	Back side	0.463	0.292	0.385	0.235	0.388	0.167	0.064	0.755	0.848	0.698	0.851	0.630	0.527
	Left side	0.412	0.044	0.237	0.029	0.027	0.001	0.009	0.456	0.649	0.441	0.439	0.413	0.421
	Right side	0.160	0.216	0.004	0.098	0.097	0.231	0.042	0.376	0.164	0.258	0.257	0.391	0.202
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.253							0.253	0.253	0.253	0.253	0.253	0.253
LTE Band 12	Front side	0.363	0.220	0.096	0.015	0.314	0.129	0.059	0.583	0.459	0.378	0.677	0.492	0.422
	Back side	0.438	0.292	0.385	0.235	0.388	0.167	0.064	0.730	0.823	0.673	0.826	0.605	0.502
	Left side	0.491	0.044	0.237	0.029	0.027	0.001	0.009	0.535	0.728	0.520	0.518	0.492	0.500
	Right side	0.175	0.216	0.004	0.098	0.097	0.231	0.042	0.391	0.179	0.273	0.272	0.406	0.217
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.253							0.253	0.253	0.253	0.253	0.253	0.253
LTE Band 17	Front side	0.345	0.220	0.096	0.015	0.314	0.129	0.059	0.565	0.441	0.360	0.659	0.474	0.404
	Back side	0.412	0.292	0.385	0.235	0.388	0.167	0.064	0.704	0.797	0.647	0.800	0.579	0.476
	Left side	0.464	0.044	0.237	0.029	0.027	0.001	0.009	0.508	0.701	0.493	0.491	0.465	0.473
	Right side	0.167	0.216	0.004	0.098	0.097	0.231	0.042	0.383	0.171	0.265	0.264	0.398	0.209
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.123							0.123	0.123	0.123	0.123	0.123	0.123
LTE Band 26	Front side	0.700	0.220	0.096	0.015	0.314	0.129	0.059	0.920	0.796	0.715	1.014	0.829	0.759
	Back side	0.740	0.292	0.385	0.235	0.388	0.167	0.064	1.032	1.125	0.975	1.128	0.907	0.804
	Left side	0.700	0.044	0.237	0.029	0.027	0.001	0.009	0.744	0.937	0.729	0.727	0.701	0.709
	Right side	0.233	0.216	0.004	0.098	0.097	0.231	0.042	0.449	0.237	0.331	0.330	0.464	0.275
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.366							0.366	0.366	0.366	0.366	0.366	0.366
FR-1 n5	Front side	0.423	0.220	0.096	0.015	0.314	0.129	0.059	0.643	0.519	0.438	0.737	0.552	0.482
	Back side	0.453	0.292	0.385	0.235	0.388	0.167	0.064	0.745	0.838	0.688	0.841	0.620	0.517
	Left side	0.301	0.044	0.237	0.029	0.027	0.001	0.009	0.345	0.538	0.330	0.328	0.302	0.310
	Right side	0.155	0.216	0.004	0.098	0.097	0.231	0.042	0.371	0.159	0.253	0.252	0.386	0.197
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.205							0.205	0.205	0.205	0.205	0.205	0.205

South of No.6 Plant, No.1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant1	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
GSM 850	Front side	0.433	0.220	0.096	0.015	0.314	0.129	0.059	0.653	0.529	0.448	0.747	0.562	0.492
	Back side	0.488	0.292	0.385	0.235	0.388	0.167	0.064	0.780	0.873	0.723	0.876	0.655	0.552
	Left side	0.541	0.044	0.237	0.029	0.027	0.001	0.009	0.585	0.778	0.570	0.568	0.542	0.550
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.370	0.594	0.030	0.021	0.642	0.028	0.152	0.964	0.400	0.391	1.012	0.398	0.522
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band V	Front side	0.284	0.220	0.096	0.015	0.314	0.129	0.059	0.504	0.380	0.299	0.598	0.413	0.343
	Back side	0.298	0.292	0.385	0.235	0.388	0.167	0.064	0.590	0.683	0.533	0.686	0.465	0.362
	Left side	0.298	0.044	0.237	0.029	0.027	0.001	0.009	0.342	0.535	0.327	0.325	0.299	0.307
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.189	0.594	0.030	0.021	0.642	0.028	0.152	0.783	0.219	0.210	0.831	0.217	0.341
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 5	Front side	0.161	0.220	0.096	0.015	0.314	0.129	0.059	0.381	0.257	0.176	0.475	0.290	0.220
	Back side	0.164	0.292	0.385	0.235	0.388	0.167	0.064	0.456	0.549	0.399	0.552	0.331	0.228
	Left side	0.163	0.044	0.237	0.029	0.027	0.001	0.009	0.207	0.400	0.192	0.190	0.164	0.172
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.004	0.594	0.030	0.021	0.642	0.028	0.152	0.598	0.034	0.025	0.646	0.032	0.156
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 12	Front side	0.297	0.220	0.096	0.015	0.314	0.129	0.059	0.517	0.393	0.312	0.611	0.426	0.356
	Back side	0.339	0.292	0.385	0.235	0.388	0.167	0.064	0.631	0.724	0.574	0.727	0.506	0.403
	Left side	0.506	0.044	0.237	0.029	0.027	0.001	0.009	0.550	0.743	0.535	0.533	0.507	0.515
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.249	0.594	0.030	0.021	0.642	0.028	0.152	0.843	0.279	0.270	0.891	0.277	0.401
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 17	Front side	0.286	0.220	0.096	0.015	0.314	0.129	0.059	0.506	0.382	0.301	0.600	0.415	0.345
	Back side	0.314	0.292	0.385	0.235	0.388	0.167	0.064	0.606	0.699	0.549	0.702	0.481	0.378
	Left side	0.487	0.044	0.237	0.029	0.027	0.001	0.009	0.531	0.724	0.516	0.514	0.488	0.496
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.243	0.594	0.030	0.021	0.642	0.028	0.152	0.837	0.273	0.264	0.885	0.271	0.395
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 26	Front side	0.122	0.220	0.096	0.015	0.314	0.129	0.059	0.342	0.218	0.137	0.436	0.251	0.181
	Back side	0.127	0.292	0.385	0.235	0.388	0.167	0.064	0.419	0.512	0.362	0.515	0.294	0.191
	Left side	0.150	0.044	0.237	0.029	0.027	0.001	0.009	0.194	0.387	0.179	0.177	0.151	0.159
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.100	0.594	0.030	0.021	0.642	0.028	0.152	0.694	0.130	0.121	0.742	0.128	0.252
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n5	Front side	0.125	0.220	0.096	0.015	0.314	0.129	0.059	0.345	0.221	0.140	0.439	0.254	0.184
	Back side	0.127	0.292	0.385	0.235	0.388	0.167	0.064	0.419	0.512	0.362	0.515	0.294	0.191
	Left side	0.107	0.044	0.237	0.029	0.027	0.001	0.009	0.151	0.344	0.136	0.134	0.108	0.116
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.105	0.594	0.030	0.021	0.642	0.028	0.152	0.699	0.135	0.126	0.747	0.133	0.257
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n77 (3450-3550)	Front side	0.121	0.220	0.096	0.015	0.314	0.129	0.059	0.341	0.217	0.136	0.435	0.250	0.180
	Back side	0.082	0.292	0.385	0.235	0.388	0.167	0.064	0.374	0.467	0.317	0.470	0.249	0.146
	Left side	0.060	0.044	0.237	0.029	0.027	0.001	0.009	0.104	0.297	0.089	0.087	0.061	0.069
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.009	0.594	0.030	0.021	0.642	0.028	0.152	0.603	0.039	0.030	0.651	0.037	0.161
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n77 (3700-3980)	Front side	0.168	0.220	0.096	0.015	0.314	0.129	0.059	0.388	0.264	0.183	0.482	0.297	0.227
	Back side	0.086	0.292	0.385	0.235	0.388	0.167	0.064	0.378	0.471	0.321	0.474	0.253	0.150
	Left side	0.063	0.044	0.237	0.029	0.027	0.001	0.009	0.107	0.300	0.092	0.090	0.064	0.072
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.012	0.594	0.030	0.021	0.642	0.028	0.152	0.606	0.042	0.033	0.654	0.040	0.164
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78 (3450-3550)	Front side	0.074	0.220	0.096	0.015	0.314	0.129	0.059	0.294	0.170	0.089	0.388	0.203	0.133
	Back side	0.046	0.292	0.385	0.235	0.388	0.167	0.064	0.338	0.431	0.281	0.434	0.213	0.110
	Left side	0.046	0.044	0.237	0.029	0.027	0.001	0.009	0.090	0.283	0.075	0.073	0.047	0.055
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.012	0.594	0.030	0.021	0.642	0.028	0.152	0.606	0.042	0.033	0.654	0.040	0.164
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78(3700-3800)	Front side	0.096	0.220	0.096	0.015	0.314	0.129	0.059	0.316	0.192	0.111	0.410	0.225	0.155
	Back side	0.056	0.292	0.385	0.235	0.388	0.167	0.064	0.348	0.441	0.291	0.444	0.223	0.120
	Left side	0.035	0.044	0.237	0.029	0.027	0.001	0.009	0.079	0.272	0.064	0.062	0.036	0.044

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com

	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.048	0.594	0.030	0.021	0.642	0.028	0.152	0.642	0.078	0.069	0.690	0.076	0.200
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
Test position		SARmax (W/kg)							Summed SAR					
		Main Ant3	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
GSM 1900	Front side	0.560	0.220	0.096	0.015	0.314	0.129	0.059	0.780	0.656	0.575	0.874	0.689	0.619
	Back side	0.728	0.292	0.385	0.235	0.388	0.167	0.064	1.020	1.113	0.963	1.116	0.895	0.792
	Left side	0.139	0.044	0.237	0.029	0.027	0.001	0.009	0.183	0.376	0.168	0.166	0.140	0.148
	Right side	0.556	0.216	0.004	0.098	0.097	0.231	0.042	0.772	0.560	0.654	0.653	0.787	0.598
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	1.046							1.046	1.046	1.046	1.046	1.046	1.046
WCDMA Band II	Front side	0.395	0.220	0.096	0.015	0.314	0.129	0.059	0.615	0.491	0.410	0.709	0.524	0.454
	Back side	0.585	0.292	0.385	0.235	0.388	0.167	0.064	0.877	0.970	0.820	0.973	0.752	0.649
	Left side	0.027	0.044	0.237	0.029	0.027	0.001	0.009	0.071	0.264	0.056	0.054	0.028	0.036
	Right side	0.011	0.216	0.004	0.098	0.097	0.231	0.042	0.227	0.015	0.109	0.108	0.242	0.053
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.811							0.811	0.811	0.811	0.811	0.811	0.811
WCDMA Band IV	Front side	0.410	0.220	0.096	0.015	0.314	0.129	0.059	0.630	0.506	0.425	0.724	0.539	0.469
	Back side	0.557	0.292	0.385	0.235	0.388	0.167	0.064	0.849	0.942	0.792	0.945	0.724	0.621
	Left side	0.112	0.044	0.237	0.029	0.027	0.001	0.009	0.156	0.349	0.141	0.139	0.113	0.121
	Right side	0.184	0.216	0.004	0.098	0.097	0.231	0.042	0.400	0.188	0.282	0.281	0.415	0.226
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	1.016							1.016	1.016	1.016	1.016	1.016	1.016
LTE Band 2	Front side	0.144	0.220	0.096	0.015	0.314	0.129	0.059	0.364	0.240	0.159	0.458	0.273	0.203
	Back side	0.190	0.292	0.385	0.235	0.388	0.167	0.064	0.482	0.575	0.425	0.578	0.357	0.254
	Left side	0.033	0.044	0.237	0.029	0.027	0.001	0.009	0.077	0.270	0.062	0.060	0.034	0.042
	Right side	0.110	0.216	0.004	0.098	0.097	0.231	0.042	0.326	0.114	0.208	0.207	0.341	0.152
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.287							0.287	0.287	0.287	0.287	0.287	0.287
LTE Band 4	Front side	0.413	0.220	0.096	0.015	0.314	0.129	0.059	0.633	0.509	0.428	0.727	0.542	0.472
	Back side	0.523	0.292	0.385	0.235	0.388	0.167	0.064	0.815	0.908	0.758	0.911	0.690	0.587
	Left side	0.098	0.044	0.237	0.029	0.027	0.001	0.009	0.142	0.335	0.127	0.125	0.099	0.107
	Right side	0.219	0.216	0.004	0.098	0.097	0.231	0.042	0.435	0.223	0.317	0.316	0.450	0.261
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.984							0.984	0.984	0.984	0.984	0.984	0.984
LTE Band 7	Front side	0.152	0.220	0.096	0.015	0.314	0.129	0.059	0.372	0.248	0.167	0.466	0.281	0.211
	Back side	0.197	0.292	0.385	0.235	0.388	0.167	0.064	0.489	0.582	0.432	0.585	0.364	0.261
	Left side	0.023	0.044	0.237	0.029	0.027	0.001	0.009	0.067	0.260	0.052	0.050	0.024	0.032
	Right side	0.069	0.216	0.004	0.098	0.097	0.231	0.042	0.285	0.073	0.167	0.166	0.300	0.111
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.182							0.182	0.182	0.182	0.182	0.182	0.182
LTE Band 38	Front side	0.221	0.220	0.096	0.015	0.314	0.129	0.059	0.441	0.317	0.236	0.535	0.350	0.280
	Back side	0.264	0.292	0.385	0.235	0.388	0.167	0.064	0.556	0.649	0.499	0.652	0.431	0.328
	Left side	0.012	0.044	0.237	0.029	0.027	0.001	0.009	0.056	0.249	0.041	0.039	0.013	0.021
	Right side	0.121	0.216	0.004	0.098	0.097	0.231	0.042	0.337	0.125	0.219	0.218	0.352	0.163
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.295							0.295	0.295	0.295	0.295	0.295	0.295
LTE Band 41	Front side	0.095	0.220	0.096	0.015	0.314	0.129	0.059	0.315	0.191	0.110	0.409	0.224	0.154
	Back side	0.316	0.292	0.385	0.235	0.388	0.167	0.064	0.608	0.701	0.551	0.704	0.483	0.380
	Left side	0.054	0.044	0.237	0.029	0.027	0.001	0.009	0.098	0.291	0.083	0.081	0.055	0.063
	Right side	0.117	0.216	0.004	0.098	0.097	0.231	0.042	0.333	0.121	0.215	0.214	0.348	0.159
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.374							0.374	0.374	0.374	0.374	0.374	0.374
FR-1 n7	Front side	0.281	0.220	0.096	0.015	0.314	0.129	0.059	0.501	0.377	0.296	0.595	0.410	0.340
	Back side	0.314	0.292	0.385	0.235	0.388	0.167	0.064	0.606	0.699	0.549	0.702	0.481	0.378
	Left side	0.058	0.044	0.237	0.029	0.027	0.001	0.009	0.102	0.295	0.087	0.085	0.059	0.067
	Right side	0.156	0.216	0.004	0.098	0.097	0.231	0.042	0.372	0.160	0.254	0.253	0.387	0.198
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.439							0.439	0.439	0.439	0.439	0.439	0.439
FR-1 n38	Front side	0.280	0.220	0.096	0.015	0.314	0.129	0.059	0.500	0.376	0.295	0.594	0.409	0.339
	Back side	0.361	0.292	0.385	0.235	0.388	0.167	0.064	0.653	0.746	0.596	0.749	0.528	0.425
	Left side	0.083	0.044	0.237	0.029	0.027	0.001	0.009	0.127	0.320	0.112	0.110	0.084	0.092
	Right side	0.158	0.216	0.004	0.098	0.097	0.231	0.042	0.374	0.162	0.256	0.255	0.389	0.200
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.443							0.443	0.443	0.443	0.443	0.443	0.443

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
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FR-1 n41	Front side	0.391	0.220	0.096	0.015	0.314	0.129	0.059	0.611	0.487	0.406	0.705	0.520	0.450
	Back side	0.424	0.292	0.385	0.235	0.388	0.167	0.064	0.716	0.809	0.659	0.812	0.591	0.488
	Left side	0.016	0.044	0.237	0.029	0.027	0.001	0.009	0.060	0.253	0.045	0.043	0.017	0.025
	Right side	0.212	0.216	0.004	0.098	0.097	0.231	0.042	0.428	0.216	0.310	0.309	0.443	0.254
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.369							0.369	0.369	0.369	0.369	0.369	0.369

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant4	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
LTE Band 4	Front side	0.354	0.220	0.096	0.015	0.314	0.129	0.059	0.574	0.450	0.369	0.668	0.483	0.413
	Back side	0.494	0.292	0.385	0.235	0.388	0.167	0.064	0.786	0.879	0.729	0.882	0.661	0.558
	Left side	0.108	0.044	0.237	0.029	0.027	0.001	0.009	0.152	0.345	0.137	0.135	0.109	0.117
	Right side	0.049	0.216	0.004	0.098	0.097	0.231	0.042	0.265	0.053	0.147	0.146	0.280	0.091
	Top side	0.697	0.594	0.030	0.021	0.642	0.028	0.152	1.291	0.727	0.718	1.339	0.725	0.849
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front side	0.079	0.220	0.096	0.015	0.314	0.129	0.059	0.299	0.175	0.094	0.393	0.208	0.138
	Back side	0.087	0.292	0.385	0.235	0.388	0.167	0.064	0.379	0.472	0.322	0.475	0.254	0.151
	Left side	0.021	0.044	0.237	0.029	0.027	0.001	0.009	0.065	0.258	0.050	0.048	0.022	0.030
	Right side	0.019	0.216	0.004	0.098	0.097	0.231	0.042	0.235	0.023	0.117	0.116	0.250	0.061
	Top side	0.188	0.594	0.030	0.021	0.642	0.028	0.152	0.782	0.218	0.209	0.830	0.216	0.340
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 38	Front side	0.105	0.220	0.096	0.015	0.314	0.129	0.059	0.325	0.201	0.120	0.419	0.234	0.164
	Back side	0.094	0.292	0.385	0.235	0.388	0.167	0.064	0.386	0.479	0.329	0.482	0.261	0.158
	Left side	0.024	0.044	0.237	0.029	0.027	0.001	0.009	0.068	0.261	0.053	0.051	0.025	0.033
	Right side	0.021	0.216	0.004	0.098	0.097	0.231	0.042	0.237	0.025	0.119	0.118	0.252	0.063
	Top side	0.223	0.594	0.030	0.021	0.642	0.028	0.152	0.817	0.253	0.244	0.865	0.251	0.375
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 41	Front side	0.085	0.220	0.096	0.015	0.314	0.129	0.059	0.305	0.181	0.100	0.399	0.214	0.144
	Back side	0.084	0.292	0.385	0.235	0.388	0.167	0.064	0.376	0.469	0.319	0.472	0.251	0.148
	Left side	0.027	0.044	0.237	0.029	0.027	0.001	0.009	0.071	0.264	0.056	0.054	0.028	0.036
	Right side	0.016	0.216	0.004	0.098	0.097	0.231	0.042	0.232	0.020	0.114	0.113	0.247	0.058
	Top side	0.180	0.594	0.030	0.021	0.642	0.028	0.152	0.774	0.210	0.201	0.822	0.208	0.332
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n7	Front side	0.172	0.220	0.096	0.015	0.314	0.129	0.059	0.392	0.268	0.187	0.486	0.301	0.231
	Back side	0.205	0.292	0.385	0.235	0.388	0.167	0.064	0.497	0.590	0.440	0.593	0.372	0.269
	Left side	0.059	0.044	0.237	0.029	0.027	0.001	0.009	0.103	0.296	0.088	0.086	0.060	0.068
	Right side	0.060	0.216	0.004	0.098	0.097	0.231	0.042	0.276	0.064	0.158	0.157	0.291	0.102
	Top side	0.361	0.594	0.030	0.021	0.642	0.028	0.152	0.955	0.391	0.382	1.003	0.389	0.513
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n38	Front side	0.062	0.220	0.096	0.015	0.314	0.129	0.059	0.282	0.158	0.077	0.376	0.191	0.121
	Back side	0.162	0.292	0.385	0.235	0.388	0.167	0.064	0.454	0.547	0.397	0.550	0.329	0.226
	Left side	0.045	0.044	0.237	0.029	0.027	0.001	0.009	0.089	0.282	0.074	0.072	0.046	0.054
	Right side	0.032	0.216	0.004	0.098	0.097	0.231	0.042	0.248	0.036	0.130	0.129	0.263	0.074
	Top side	0.372	0.594	0.030	0.021	0.642	0.028	0.152	0.966	0.402	0.393	1.014	0.400	0.524
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n41	Front side	0.103	0.220	0.096	0.015	0.314	0.129	0.059	0.323	0.199	0.118	0.417	0.232	0.162
	Back side	0.126	0.292	0.385	0.235	0.388	0.167	0.064	0.418	0.511	0.361	0.514	0.293	0.190
	Left side	0.035	0.044	0.237	0.029	0.027	0.001	0.009	0.079	0.272	0.064	0.062	0.036	0.044
	Right side	0.048	0.216	0.004	0.098	0.097	0.231	0.042	0.264	0.052	0.146	0.145	0.279	0.090
	Top side	0.234	0.594	0.030	0.021	0.642	0.028	0.152	0.828	0.264	0.255	0.876	0.262	0.386
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant5	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
GSM 1900	Front side	0.058	0.220	0.096	0.015	0.314	0.129	0.059	0.278	0.154	0.073	0.372	0.187	0.117
	Back side	0.148	0.292	0.385	0.235	0.388	0.167	0.064	0.440	0.533	0.383	0.536	0.315	0.212
	Left side	0.645	0.044	0.237	0.029	0.027	0.001	0.009	0.689	0.882	0.674	0.672	0.646	0.654
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.009	0.594	0.030	0.021	0.642	0.028	0.152	0.603	0.039	0.030	0.651	0.037	0.161
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band II	Front side	0.168	0.220	0.096	0.015	0.314	0.129	0.059	0.388	0.264	0.183	0.482	0.297	0.227
	Back side	0.173	0.292	0.385	0.235	0.388	0.167	0.064	0.465	0.558	0.408	0.561	0.340	0.237
	Left side	0.356	0.044	0.237	0.029	0.027	0.001	0.009	0.400	0.593	0.385	0.383	0.357	0.365
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.006	0.594	0.030	0.021	0.642	0.028	0.152	0.600	0.036	0.027	0.648	0.034	0.158
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

WCDMA Band IV	Front side	0.121	0.220	0.096	0.015	0.314	0.129	0.059	0.341	0.217	0.136	0.435	0.250	0.180
	Back side	0.174	0.292	0.385	0.235	0.388	0.167	0.064	0.466	0.559	0.409	0.562	0.341	0.238
	Left side	0.331	0.044	0.237	0.029	0.027	0.001	0.009	0.375	0.568	0.360	0.358	0.332	0.340
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.008	0.594	0.030	0.021	0.642	0.028	0.152	0.602	0.038	0.029	0.650	0.036	0.160
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 2	Front side	0.120	0.220	0.096	0.015	0.314	0.129	0.059	0.340	0.216	0.135	0.434	0.249	0.179
	Back side	0.140	0.292	0.385	0.235	0.388	0.167	0.064	0.432	0.525	0.375	0.528	0.307	0.204
	Left side	0.278	0.044	0.237	0.029	0.027	0.001	0.009	0.322	0.515	0.307	0.305	0.279	0.287
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.008	0.594	0.030	0.021	0.642	0.028	0.152	0.602	0.038	0.029	0.650	0.036	0.160
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 4	Front side	0.146	0.220	0.096	0.015	0.314	0.129	0.059	0.366	0.242	0.161	0.460	0.275	0.205
	Back side	0.183	0.292	0.385	0.235	0.388	0.167	0.064	0.475	0.568	0.418	0.571	0.350	0.247
	Left side	0.462	0.044	0.237	0.029	0.027	0.001	0.009	0.506	0.699	0.491	0.489	0.463	0.471
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.020	0.594	0.030	0.021	0.642	0.028	0.152	0.614	0.050	0.041	0.662	0.048	0.172
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front side	0.101	0.220	0.096	0.015	0.314	0.129	0.059	0.321	0.197	0.116	0.415	0.230	0.160
	Back side	0.216	0.292	0.385	0.235	0.388	0.167	0.064	0.508	0.601	0.451	0.604	0.383	0.280
	Left side	0.178	0.044	0.237	0.029	0.027	0.001	0.009	0.222	0.415	0.207	0.205	0.179	0.187
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.167	0.594	0.030	0.021	0.642	0.028	0.152	0.761	0.197	0.188	0.809	0.195	0.319
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 38	Front side	0.149	0.220	0.096	0.015	0.314	0.129	0.059	0.369	0.245	0.164	0.463	0.278	0.208
	Back side	0.174	0.292	0.385	0.235	0.388	0.167	0.064	0.466	0.559	0.409	0.562	0.341	0.238
	Left side	0.170	0.044	0.237	0.029	0.027	0.001	0.009	0.214	0.407	0.199	0.197	0.171	0.179
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.013	0.594	0.030	0.021	0.642	0.028	0.152	0.607	0.043	0.034	0.655	0.041	0.165
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 41	Front side	0.163	0.220	0.096	0.015	0.314	0.129	0.059	0.383	0.259	0.178	0.477	0.292	0.222
	Back side	0.158	0.292	0.385	0.235	0.388	0.167	0.064	0.450	0.543	0.393	0.546	0.325	0.222
	Left side	0.168	0.044	0.237	0.029	0.027	0.001	0.009	0.212	0.405	0.197	0.195	0.169	0.177
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.014	0.594	0.030	0.021	0.642	0.028	0.152	0.608	0.044	0.035	0.656	0.042	0.166
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n7	Front side	0.245	0.220	0.096	0.015	0.314	0.129	0.059	0.465	0.341	0.260	0.559	0.374	0.304
	Back side	0.445	0.292	0.385	0.235	0.388	0.167	0.064	0.737	0.830	0.680	0.833	0.612	0.509
	Left side	0.588	0.044	0.237	0.029	0.027	0.001	0.009	0.632	0.825	0.617	0.615	0.589	0.597
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.033	0.594	0.030	0.021	0.642	0.028	0.152	0.627	0.063	0.054	0.675	0.061	0.185
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n38	Front side	0.165	0.220	0.096	0.015	0.314	0.129	0.059	0.385	0.261	0.180	0.479	0.294	0.224
	Back side	0.341	0.292	0.385	0.235	0.388	0.167	0.064	0.633	0.726	0.576	0.729	0.508	0.405
	Left side	0.337	0.044	0.237	0.029	0.027	0.001	0.009	0.381	0.574	0.366	0.364	0.338	0.346
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.017	0.594	0.030	0.021	0.642	0.028	0.152	0.611	0.047	0.038	0.659	0.045	0.169
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n41	Front side	0.234	0.220	0.096	0.015	0.314	0.129	0.059	0.454	0.330	0.249	0.548	0.363	0.293
	Back side	0.333	0.292	0.385	0.235	0.388	0.167	0.064	0.625	0.718	0.568	0.721	0.500	0.397
	Left side	0.419	0.044	0.237	0.029	0.027	0.001	0.009	0.463	0.656	0.448	0.446	0.420	0.428
	Right side		0.216	0.004	0.098	0.097	0.231	0.042	0.216	0.004	0.098	0.097	0.231	0.042
	Top side	0.027	0.594	0.030	0.021	0.642	0.028	0.152	0.621	0.057	0.048	0.669	0.055	0.179
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant6	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
LTE Band 4	Front side	0.528	0.220	0.096	0.015	0.314	0.129	0.059	0.748	0.624	0.543	0.842	0.657	0.587
	Back side	0.700	0.292	0.385	0.235	0.388	0.167	0.064	0.992	1.085	0.935	1.088	0.867	0.764
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.796	0.216	0.004	0.098	0.097	0.231	0.042	1.012	0.800	0.894	0.893	1.027	0.838
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.061							0.061	0.061	0.061	0.061	0.061	0.061
LTE Band 7	Front side	0.247	0.220	0.096	0.015	0.314	0.129	0.059	0.467	0.343	0.262	0.561	0.376	0.306
	Back side	0.345	0.292	0.385	0.235	0.388	0.167	0.064	0.637	0.730	0.580	0.733	0.512	0.409
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009

	Right side	0.644	0.216	0.004	0.098	0.097	0.231	0.042	0.860	0.648	0.742	0.741	0.875	0.686
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.054							0.054	0.054	0.054	0.054	0.054	0.054
LTE Band 38	Front side	0.198	0.220	0.096	0.015	0.314	0.129	0.059	0.418	0.294	0.213	0.512	0.327	0.257
	Back side	0.321	0.292	0.385	0.235	0.388	0.167	0.064	0.613	0.706	0.556	0.709	0.488	0.385
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.422	0.216	0.004	0.098	0.097	0.231	0.042	0.638	0.426	0.520	0.519	0.653	0.464
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.053							0.053	0.053	0.053	0.053	0.053	0.053
LTE Band 41	Front side	0.244	0.220	0.096	0.015	0.314	0.129	0.059	0.464	0.340	0.259	0.558	0.373	0.303
	Back side	0.409	0.292	0.385	0.235	0.388	0.167	0.064	0.701	0.794	0.644	0.797	0.576	0.473
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.581	0.216	0.004	0.098	0.097	0.231	0.042	0.797	0.585	0.679	0.678	0.812	0.623
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.049							0.049	0.049	0.049	0.049	0.049	0.049
FR-1 n7	Front side	0.147	0.220	0.096	0.015	0.314	0.129	0.059	0.367	0.243	0.162	0.461	0.276	0.206
	Back side	0.255	0.292	0.385	0.235	0.388	0.167	0.064	0.547	0.640	0.490	0.643	0.422	0.319
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.451	0.216	0.004	0.098	0.097	0.231	0.042	0.667	0.455	0.549	0.548	0.682	0.493
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.033							0.033	0.033	0.033	0.033	0.033	0.033
FR-1 n38	Front side	0.101	0.220	0.096	0.015	0.314	0.129	0.059	0.321	0.197	0.116	0.415	0.230	0.160
	Back side	0.186	0.292	0.385	0.235	0.388	0.167	0.064	0.478	0.571	0.421	0.574	0.353	0.250
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.317	0.216	0.004	0.098	0.097	0.231	0.042	0.533	0.321	0.415	0.414	0.548	0.359
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.034							0.034	0.034	0.034	0.034	0.034	0.034
FR-1 n41	Front side	0.186	0.220	0.096	0.015	0.314	0.129	0.059	0.406	0.282	0.201	0.500	0.315	0.245
	Back side	0.300	0.292	0.385	0.235	0.388	0.167	0.064	0.592	0.685	0.535	0.688	0.467	0.364
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.449	0.216	0.004	0.098	0.097	0.231	0.042	0.665	0.453	0.547	0.546	0.680	0.491
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.065							0.065	0.065	0.065	0.065	0.065	0.065
FR-1 n77 (3450-3550)	Front side	0.379	0.220	0.096	0.015	0.314	0.129	0.059	0.599	0.475	0.394	0.693	0.508	0.438
	Back side	0.271	0.292	0.385	0.235	0.388	0.167	0.064	0.563	0.656	0.506	0.659	0.438	0.335
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.339	0.216	0.004	0.098	0.097	0.231	0.042	0.555	0.343	0.437	0.436	0.570	0.381
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.029							0.029	0.029	0.029	0.029	0.029	0.029
FR-1 n77 (3700-3980)	Front side	0.386	0.220	0.096	0.015	0.314	0.129	0.059	0.606	0.482	0.401	0.700	0.515	0.445
	Back side	0.313	0.292	0.385	0.235	0.388	0.167	0.064	0.605	0.698	0.548	0.701	0.480	0.377
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.322	0.216	0.004	0.098	0.097	0.231	0.042	0.538	0.326	0.420	0.419	0.553	0.364
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.050							0.050	0.050	0.050	0.050	0.050	0.050
FR-1 n78 (3450-3550)	Front side	0.161	0.220	0.096	0.015	0.314	0.129	0.059	0.381	0.257	0.176	0.475	0.290	0.220
	Back side	0.179	0.292	0.385	0.235	0.388	0.167	0.064	0.471	0.564	0.414	0.567	0.346	0.243
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.255	0.216	0.004	0.098	0.097	0.231	0.042	0.471	0.259	0.353	0.352	0.486	0.297
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.037							0.037	0.037	0.037	0.037	0.037	0.037
FR-1 n78(3700-3800)	Front side	0.223	0.220	0.096	0.015	0.314	0.129	0.059	0.443	0.319	0.238	0.537	0.352	0.282
	Back side	0.227	0.292	0.385	0.235	0.388	0.167	0.064	0.519	0.612	0.462	0.615	0.394	0.291
	Left side		0.044	0.237	0.029	0.027	0.001	0.009	0.044	0.237	0.029	0.027	0.001	0.009
	Right side	0.320	0.216	0.004	0.098	0.097	0.231	0.042	0.536	0.324	0.418	0.417	0.551	0.362
	Top side		0.594	0.030	0.021	0.642	0.028	0.152	0.594	0.030	0.021	0.642	0.028	0.152
	Bottom side	0.046							0.046	0.046	0.046	0.046	0.046	0.046

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant10	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
FR-1 n77 (3450-3550)	Front side	0.079	0.220	0.096	0.015	0.314	0.129	0.059	0.299	0.175	0.094	0.393	0.208	0.138
	Back side	0.164	0.292	0.385	0.235	0.388	0.167	0.064	0.456	0.549	0.399	0.552	0.331	0.228
	Left side	0.052	0.044	0.237	0.029	0.027	0.001	0.009	0.096	0.289	0.081	0.079	0.053	0.061
	Right side	0.013	0.216	0.004	0.098	0.097	0.231	0.042	0.229	0.017	0.111	0.110	0.244	0.055
	Top side	0.163	0.594	0.030	0.021	0.642	0.028	0.152	0.757	0.193	0.184	0.805	0.191	0.315
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

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FR-1 n77 (3700-3980)	Front side	0.066	0.220	0.096	0.015	0.314	0.129	0.059	0.286	0.162	0.081	0.380	0.195	0.125
	Back side	0.110	0.292	0.385	0.235	0.388	0.167	0.064	0.402	0.495	0.345	0.498	0.277	0.174
	Left side	0.025	0.044	0.237	0.029	0.027	0.001	0.009	0.069	0.262	0.054	0.052	0.026	0.034
	Right side	0.021	0.216	0.004	0.098	0.097	0.231	0.042	0.237	0.025	0.119	0.118	0.252	0.063
	Top side	0.168	0.594	0.030	0.021	0.642	0.028	0.152	0.762	0.198	0.189	0.810	0.196	0.320
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78 (3450-3550)	Front side	0.053	0.220	0.096	0.015	0.314	0.129	0.059	0.273	0.149	0.068	0.367	0.182	0.112
	Back side	0.176	0.292	0.385	0.235	0.388	0.167	0.064	0.468	0.561	0.411	0.564	0.343	0.240
	Left side	0.065	0.044	0.237	0.029	0.027	0.001	0.009	0.109	0.302	0.094	0.092	0.066	0.074
	Right side	0.009	0.216	0.004	0.098	0.097	0.231	0.042	0.225	0.013	0.107	0.106	0.240	0.051
	Top side	0.119	0.594	0.030	0.021	0.642	0.028	0.152	0.713	0.149	0.140	0.761	0.147	0.271
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78(3700-3800)	Front side	0.037	0.220	0.096	0.015	0.314	0.129	0.059	0.257	0.133	0.052	0.351	0.166	0.096
	Back side	0.061	0.292	0.385	0.235	0.388	0.167	0.064	0.353	0.446	0.296	0.449	0.228	0.125
	Left side	0.015	0.044	0.237	0.029	0.027	0.001	0.009	0.059	0.252	0.044	0.042	0.016	0.024
	Right side	0.002	0.216	0.004	0.098	0.097	0.231	0.042	0.218	0.006	0.100	0.099	0.233	0.044
	Top side	0.090	0.594	0.030	0.021	0.642	0.028	0.152	0.684	0.120	0.111	0.732	0.118	0.242
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)							Summed SAR					
		Main Ant11	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
FR-1 n77 (3450-3550)	Front side	0.129	0.220	0.096	0.015	0.314	0.129	0.059	0.349	0.225	0.144	0.443	0.258	0.188
	Back side	0.265	0.292	0.385	0.235	0.388	0.167	0.064	0.557	0.650	0.500	0.653	0.432	0.329
	Left side	0.093	0.044	0.237	0.029	0.027	0.001	0.009	0.137	0.330	0.122	0.120	0.094	0.102
	Right side	0.001	0.216	0.004	0.098	0.097	0.231	0.042	0.217	0.005	0.099	0.098	0.232	0.043
	Top side	0.067	0.594	0.030	0.021	0.642	0.028	0.152	0.661	0.097	0.088	0.709	0.095	0.219
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n77 (3700-3980)	Front side	0.139	0.220	0.096	0.015	0.314	0.129	0.059	0.359	0.235	0.154	0.453	0.268	0.198
	Back side	0.260	0.292	0.385	0.235	0.388	0.167	0.064	0.552	0.645	0.495	0.648	0.427	0.324
	Left side	0.063	0.044	0.237	0.029	0.027	0.001	0.009	0.107	0.300	0.092	0.090	0.064	0.072
	Right side	0.001	0.216	0.004	0.098	0.097	0.231	0.042	0.217	0.005	0.099	0.098	0.232	0.043
	Top side	0.109	0.594	0.030	0.021	0.642	0.028	0.152	0.703	0.139	0.130	0.751	0.137	0.261
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78 (3450-3550)	Front side	0.130	0.220	0.096	0.015	0.314	0.129	0.059	0.350	0.226	0.145	0.444	0.259	0.189
	Back side	0.259	0.292	0.385	0.235	0.388	0.167	0.064	0.551	0.644	0.494	0.647	0.426	0.323
	Left side	0.081	0.044	0.237	0.029	0.027	0.001	0.009	0.125	0.318	0.110	0.108	0.082	0.090
	Right side	0.004	0.216	0.004	0.098	0.097	0.231	0.042	0.220	0.008	0.102	0.101	0.235	0.046
	Top side	0.057	0.594	0.030	0.021	0.642	0.028	0.152	0.651	0.087	0.078	0.699	0.085	0.209
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000
FR-1 n78(3700-3800)	Front side	0.037	0.220	0.096	0.015	0.314	0.129	0.059	0.257	0.133	0.052	0.351	0.166	0.096
	Back side	0.061	0.292	0.385	0.235	0.388	0.167	0.064	0.353	0.446	0.296	0.449	0.228	0.125
	Left side	0.015	0.044	0.237	0.029	0.027	0.001	0.009	0.059	0.252	0.044	0.042	0.016	0.024
	Right side	0.002	0.216	0.004	0.098	0.097	0.231	0.042	0.218	0.006	0.100	0.099	0.233	0.044
	Top side	0.090	0.594	0.030	0.021	0.642	0.028	0.152	0.684	0.120	0.111	0.732	0.118	0.242
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)							Summed SAR					
		Inter-band UL CA	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
CA_4A-7A	Front side	0.701	0.220	0.096	0.015	0.314	0.129	0.059	0.921	0.797	0.716	1.015	0.830	0.760
	Back side	0.799	0.292	0.385	0.235	0.388	0.167	0.064	1.091	1.184	1.034	1.187	0.966	0.863
	Left side	0.632	0.044	0.237	0.029	0.027	0.001	0.009	0.676	0.869	0.661	0.659	0.633	0.641
	Right side	1.098	0.216	0.004	0.098	0.097	0.231	0.042	1.314	1.102	1.196	1.195	1.329	1.140
	Top side	0.621	0.594	0.030	0.021	0.642	0.028	0.152	1.215	0.651	0.642	1.263	0.649	0.773
	Bottom side	0.508							0.508	0.508	0.508	0.508	0.508	0.508

Test position		SARmax (W/kg)							Summed SAR					
		EN-DC Max SAR	WiFi 2.4G Ant6(chain0)	WiFi 2.4G Ant7(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant6(chain0)	WiFi 5G Ant7(chain1)	WiFi 5G MIMO						
		1	2	3	4	5	6	7	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5
5N-7A	Front side	0.915	0.220	0.096	0.015	0.314	0.129	0.059	1.135	1.011	0.930	1.229	1.044	0.974
	Back side	0.945	0.292	0.385	0.235	0.388	0.167	0.064	1.237	1.330	1.180	1.333	1.112	1.009
	Left side	0.793	0.044	0.237	0.029	0.027	0.001	0.009	0.837	1.030	0.822	0.820	0.794	0.802
	Right side	0.647	0.216	0.004	0.098	0.097	0.231	0.042	0.863	0.651	0.745	0.744	0.878	0.689
	Top side	0.597	0.594	0.030	0.021	0.642	0.028	0.152	1.191	0.627	0.618	1.239	0.625	0.749
	Bottom side	0.697							0.697	0.697	0.697	0.697	0.697	0.697

7N-5A	Front side	0.854	0.220	0.096	0.015	0.314	0.129	0.059	1.074	0.950	0.869	1.168	0.983	0.913
	Back side	0.853	0.292	0.385	0.235	0.388	0.167	0.064	1.145	1.238	1.088	1.241	1.020	0.917
	Left side	0.802	0.044	0.237	0.029	0.027	0.001	0.009	0.846	1.039	0.831	0.829	0.803	0.811
	Right side	0.550	0.216	0.004	0.098	0.097	0.231	0.042	0.766	0.554	0.648	0.647	0.781	0.592
	Top side	0.394	0.594	0.030	0.021	0.642	0.028	0.152	0.988	0.424	0.415	1.036	0.422	0.546
	Bottom side	0.643							0.643	0.643	0.643	0.643	0.643	0.643
N78-2A	Front side	0.367	0.220	0.096	0.015	0.314	0.129	0.059	0.587	0.463	0.382	0.681	0.496	0.426
	Back side	0.449	0.292	0.385	0.235	0.388	0.167	0.064	0.741	0.834	0.684	0.837	0.616	0.513
	Left side	0.359	0.044	0.237	0.029	0.027	0.001	0.009	0.403	0.596	0.388	0.386	0.360	0.368
	Right side	0.430	0.216	0.004	0.098	0.097	0.231	0.042	0.646	0.434	0.528	0.527	0.661	0.472
	Top side	0.127	0.594	0.030	0.021	0.642	0.028	0.152	0.721	0.157	0.148	0.769	0.155	0.279
	Bottom side	0.333							0.333	0.333	0.333	0.333	0.333	0.333
N78-5A	Front side	0.687	0.220	0.096	0.015	0.314	0.129	0.059	0.907	0.783	0.702	1.001	0.816	0.746
	Back side	0.722	0.292	0.385	0.235	0.388	0.167	0.064	1.014	1.107	0.957	1.110	0.889	0.786
	Left side	0.493	0.044	0.237	0.029	0.027	0.001	0.009	0.537	0.730	0.522	0.520	0.494	0.502
	Right side	0.480	0.216	0.004	0.098	0.097	0.231	0.042	0.696	0.484	0.578	0.577	0.711	0.522
	Top side	0.119	0.594	0.030	0.021	0.642	0.028	0.152	0.713	0.149	0.140	0.761	0.147	0.271
	Bottom side	0.046							0.046	0.046	0.046	0.046	0.046	0.046
N78-7A	Front side	0.715	0.220	0.096	0.015	0.314	0.129	0.059	0.935	0.811	0.730	1.029	0.844	0.774
	Back side	0.751	0.292	0.385	0.235	0.388	0.167	0.064	1.043	1.136	0.986	1.139	0.918	0.815
	Left side	0.573	0.044	0.237	0.029	0.027	0.001	0.009	0.617	0.810	0.602	0.600	0.574	0.582
	Right side	0.812	0.216	0.004	0.098	0.097	0.231	0.042	1.028	0.816	0.910	0.909	1.043	0.854
	Top side	0.611	0.594	0.030	0.021	0.642	0.028	0.152	1.205	0.641	0.632	1.253	0.639	0.763
	Bottom side	0.538							0.538	0.538	0.538	0.538	0.538	0.538
N78-38A	Front side	0.444	0.220	0.096	0.015	0.314	0.129	0.059	0.664	0.540	0.459	0.758	0.573	0.503
	Back side	0.580	0.292	0.385	0.235	0.388	0.167	0.064	0.872	0.965	0.815	0.968	0.747	0.644
	Left side	0.251	0.044	0.237	0.029	0.027	0.001	0.009	0.295	0.488	0.280	0.278	0.252	0.260
	Right side	0.742	0.216	0.004	0.098	0.097	0.231	0.042	0.958	0.746	0.840	0.839	0.973	0.784
	Top side	0.342	0.594	0.030	0.021	0.642	0.028	0.152	0.936	0.372	0.363	0.984	0.370	0.494
	Bottom side	0.341							0.341	0.341	0.341	0.341	0.341	0.341
N78-41A	Front side	0.467	0.220	0.096	0.015	0.314	0.129	0.059	0.687	0.563	0.482	0.781	0.596	0.526
	Back side	0.668	0.292	0.385	0.235	0.388	0.167	0.064	0.960	1.053	0.903	1.056	0.835	0.732
	Left side	0.249	0.044	0.237	0.029	0.027	0.001	0.009	0.293	0.486	0.278	0.276	0.250	0.258
	Right side	0.901	0.216	0.004	0.098	0.097	0.231	0.042	1.117	0.905	0.999	0.998	1.132	0.943
	Top side	0.299	0.594	0.030	0.021	0.642	0.028	0.152	0.893	0.329	0.320	0.941	0.327	0.451
	Bottom side	0.420							0.420	0.420	0.420	0.420	0.420	0.420

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Product specific 10g SAR:

Test position		SARmax (W/kg)								Summed SAR								
		Main Ant4	WiFi 2.4G MIMO	WiFi 2.4G MIMO 1	WiFi 5G MIMO	WiFi 5G MIMO 1	BT 1	BT 2	WIFI 6E									
		1	2	3	4	5	6	7	8	1+4+6	1+4+7	1+5+6	1+5+7	1+2+4	1+3+5	1+2+8	1+6+8	1+7+8
LTE Band 4	Front side	1.659			1.133	0.050			0.503	2.792	2.792	1.709	1.709	2.792	1.709	2.162	2.162	2.162
	Back side	1.605			0.632	1.285			0.370	2.237	2.237	2.890	2.890	2.237	2.890	1.975	1.975	1.975
	Left side				0.007	0.086			0.014	0.007	0.007	0.086	0.086	0.007	0.086	0.014	0.014	0.014
	Right side				0.406	0.001			0.624	0.406	0.406	0.001	0.001	0.406	0.001	0.624	0.624	0.624
	Top side	2.658			1.129	0.004			0.787	3.787	3.787	2.662	2.662	3.787	2.662	3.445	3.445	3.445
	Bottom side								0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019	0.019

9 Equipment list

Test Platform	SPEAG DASY Professional
Description	SAR Test System
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Hardware Reference

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	SAM2	1563	NCR	NCR
☒	Twin Phantom	SPEAG	SAM6	1824	NCR	NCR
☒	DAE	SPEAG	DAE4	1327	2021-11-05	2022-11-04
☒	DAE	SPEAG	DAE4	1324	2021-06-22	2022-06-21
☒	E-Field Probe	SPEAG	EX3DV4	3962	2021-04-26	2022-04-25
☒	E-Field Probe	SPEAG	EX3DV4	7620	2021-08-24	2022-08-23
☒	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
☒	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14
☒	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
☒	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
☒	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07
☒	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
☒	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
☒	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16
☒	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
☒	Validation Kits	SPEAG	D5GHzV2	1174	2020-08-27	2023-08-26
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2021-02-24	2022-02-23
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2021-03-02	2022-03-01
☒	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28
☒	Radio Communication Analyzer	Anritsu	MT8820C	6201010267	2021-04-01	2022-03-31
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	R&S	SMB100A	182393	2021-02-20	2022-02-19
☒	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR

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☒	Power Meter	Aglient	E4419B	6843318103	2021-06-08	2022-06-07
☒	Power Sensor	Aglient	E9301A	MY41496508	2021-09-09	2022-09-08
☒	Power Sensor	Aglient	E9301H	MY41495605	2021-06-08	2022-06-07
☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08
☒	Humidity and Temperature Indicator	MingGao	MingGao	NA	2021-06-16	2022-06-15

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

10 Calibration certificate

Please see the Appendix C

11 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

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