



FCC SAR TEST REPORT

Report No: AR/2021/3001707
Applicant: Xiaomi Communications Co., Ltd.
Manufacturer: Xiaomi Communications Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): 21061110AG
Brand Name: POCO
FCC ID: 2AFZZK110AG
Standards: FCC 47CFR §2.1093
Date of Receipt: 2021-04-23
Date of Test: 2021-04-25 to 2021-05-24
Date of Issue: 2021-05-25
Test conclusion: **PASS ***

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
AR/2021/3001707	01	Original	2021-05-25



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product Specific 10-g SAR
GSM850	0.97	0.19	0.32	NA
GSM1900	0.47	0.27	0.50	NA
WCDMA Band II	0.51	0.69	0.65	2.43
WCDMA Band IV	0.26	0.91	0.91	2.19
WCDMA Band V	0.84	0.30	0.37	NA
LTE Band 2	0.52	0.60	0.65	2.57
LTE Band 4	0.55	0.79	0.80	2.17
LTE Band 5	0.87	0.25	0.33	NA
LTE Band 7	0.66	1.05	0.77	0.58
LTE Band 26	1.02	0.24	0.19	NA
LTE Band 38	0.97	0.83	0.69	1.03
LTE Band 41	1.09	0.97	0.77	1.35
NR Band n41	0.76	0.92	0.44	NA
NR Band n77	0.85	0.54	0.64	NA
WIFI 2.4G	0.56	<0.10	0.15	NA
WIFI 5G	1.04	0.44	0.56	1.80
Bluetooth	0.11	<0.10	<0.10	NA
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Sum SAR	1.54	1.51	1.28	3.23
SPLSR	NA	NA	NA	NA
SPLSR Limited	0.04			0.1

Reviewed by

Jackson Li

Jackson Li

Prepared by

Roman Pan

Roman Pan

Test Engineer: Rick Chen, Vito Wang, Jack Huang, York Liu, Charley 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 Co., Ltd. Shenzhen Branch E&E Lab
Address: No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code: 518057
Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
E-mail: ee.shenzhen@sgs.com



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1.3 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006

IC#: 4620C.



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	21061110AG		
FCC ID:	2AFZZK110AG		
Brand name:	POCO		
Product Phase:	Identical Prototype		
IMEI:	863957050021127 / 863957050027082 / 863957050021135 / 863957050032405 / 863957050031688 / 863957050028981		
Hardware Version:	P2		
Software Version:	MIUI12		
Antenna Type:	PIFA 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, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	6
DC-HSDPA UE Category:	24		
Power Class	4,tested with power level 5(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 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	NR Band n41	2496~2690	2496~2690
	NR Band n77	3700~3980	3700~3980
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2472	2402~2472
	Wi-Fi 5G	5150~5250	5150~5250



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1.4.1 DUT Antenna Locations(Back View)

Refer to Appendix D Photographs

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 174 mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

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
Ant0	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant1	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
Ant2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant5	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant6	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant7	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.



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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.

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

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

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

1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2) SAR for UL CA is required in each exposure condition and frequency band combination

3) For this device, as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band			Downlink (DL) operating band			Duplex Mode
		BS receive / UE transmit			BS transmit / UE receive			
		$F_{UL\ low} - F_{UL\ high}$			$F_{DL\ low} - F_{DL\ high}$			
CA 7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD
CA 38	38	2570 MHz	–	2620 MHz	2570 MHz	–	2620 MHz	TDD
CA 41	41	2496 MHz	–	2690 MHz	2496 MHz	–	2690 MHz	TDD



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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 following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in this report.

Ant0 Power Level(dBm)						
Power Reduction Scenario	GSM1900	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7
Sensor off	/	25.0	25.0	/	25.0	25.0
Sensor on	/	23.0	23.0	/	24.0	21.0
Hotspot off	31.0	25.0	25.0	25.0	25.0	25.0
Hotspot on	27.5	19.5	19.5	20.5	20.0	21.0

Ant3 Power Level(dBm)							
Power Reduction Scenario	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41
Sensor off	25.5	25.5	25.5	25.5	25.0	25.0	25.0
Sensor on	22.0	22.5	24.0	24.5	18.5	20.0	20.5
Hotspot off	25.5	25.5	25.5	25.5	25.0	25.0	25.0
Hotspot on	22.0	22.5	24.0	24.5	18.5	20.0	20.5

Ant4 Power Level(dBm)					
Power Reduction Scenario	WCDMA B5	LTE B5	LTE B26	LTE B38	LTE B41
Receiver off	25.0	25.0	25.0	24.0	24.5
Receiver on	22.0	22.5	23.0	20.0	20.0
Hotspot off	25.0	25.0	25.0	24.0	24.5
Hotspot on	22.0	22.5	23.0	20.0	20.0



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NR Antenna Power Level(dBm)								
	Ant0	Ant1	Ant2		Ant3		Ant4	Ant5
Power Reduction Scenario	n41	n77	n41	n77	n41	n77	n41	n77
Receiver off	/	/	/	/	/	/	25.0	25.5
Receiver on	/	25.5	25.0	25.5	25.0	/	17.5	19.5
Hotspot off	25.0	18.5	23.0	18.5	23.0	25.0	25.0	25.5
Hotspot on	22.0	18.5	22.0	18.5	17.5	18.0	17.5	19.5
Sensor off	25.0	18.5	23.0	18.5	23.0	25.0	25.0	/
Sensor on	22.0	18.5	22.0	18.5	17.5	18.0	22.0	/

WIFI 2.4G Power Level(dBm) MIMO				
Power Reduction Scenario	802.11b	802.11g	802.11n HT20	802.11n HT40
Full power/Receiver off	18.5	22.5	21.5	20.5
Receiver on	18.5	18.5	18.5	18.5

WIFI 2.4G Power Level(dBm) SISO ANT1/ANT2				
Power Reduction Scenario	802.11b	802.11g	802.11n HT20	802.11n HT40
Full power/Receiver off	15.5	19.5	18.5	17.5
Receiver on	15.5	15.5	15.5	15.5

WIFI 5G Power Level(dBm) MIMO									
Power Reduction Scenario	802.11a	802.11n HT20	802.11n HT40	802.11ac 20M	802.11ac 40M	802.11ac 80M	802.11ax 20M	802.11ax 40M	802.11ax 80M
Full power/Receiver off	22.0	22.0	21.5	22.0	21.5	20.5	22.0	21.5	21.5
Receiver on	22.0	21.5	21.0	21.5	21.0	20.0	21.5	21.0	21.0

WIFI 5G Power Level(dBm) SISO ANT1/ANT2									
Power Reduction Scenario	802.11a	802.11n HT20	802.11n HT40	802.11ac 20M	802.11ac 40M	802.11ac 80M	802.11ax 20M	802.11ax 40M	802.11ax 80M
Full power/Receiver off	19.0	19.0	18.5	19.0	18.5	17.5	19.0	18.5	18.5
Receiver on	19.0	18.5	18.0	18.5	18.0	17.0	18.5	18.0	18.0



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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
KDB447498 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



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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.)



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
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



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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 $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

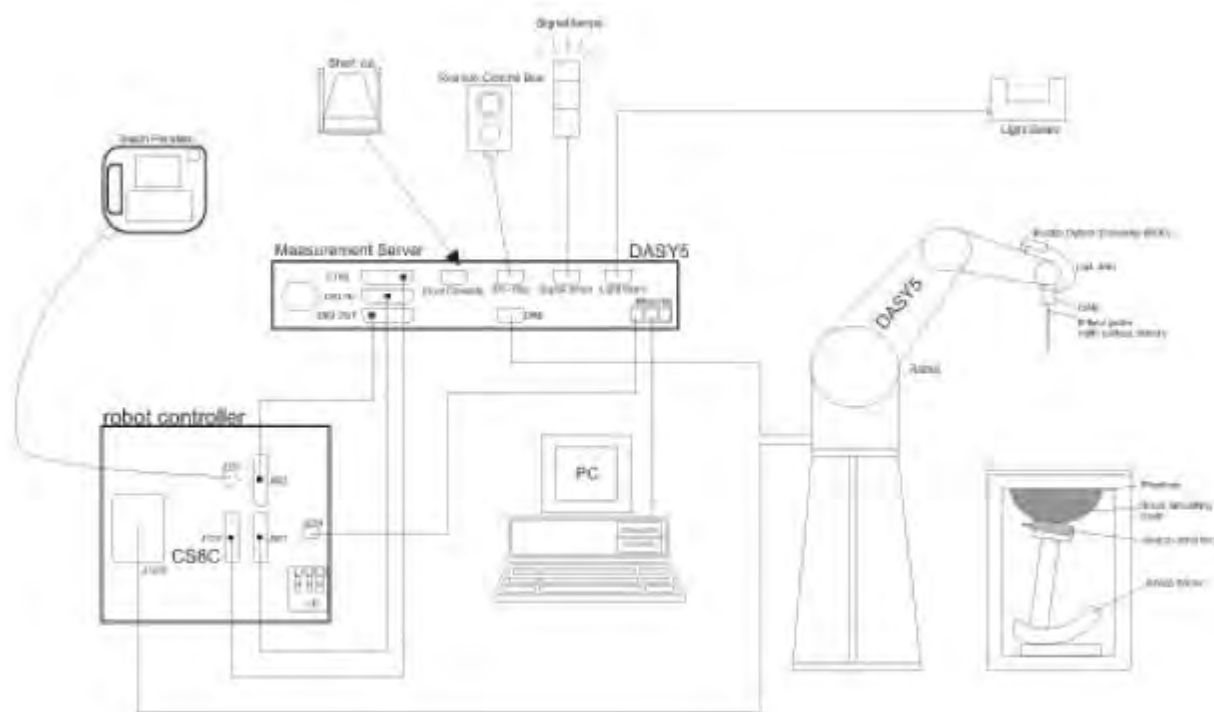
The DASY5 system for performing compliance tests consists of the following items:

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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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.



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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 $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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

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

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



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		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$		$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
	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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

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



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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 V_i = compensated signal of channel i ($i = x, y, z$)

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = 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

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

H_i = 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.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = 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.

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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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 ($\sim 10\%$ from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

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.



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5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

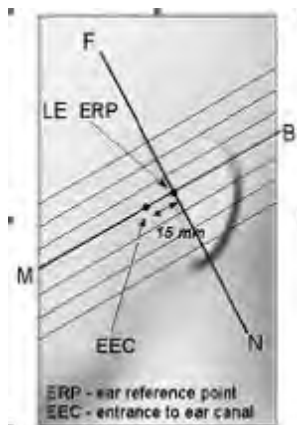


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

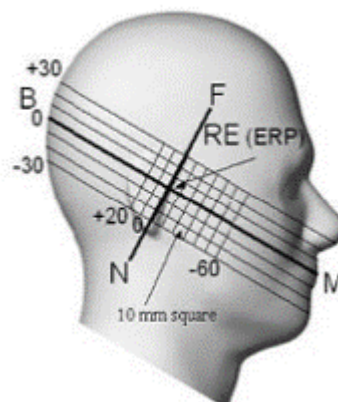
Note: The centre strip including the nose region has a different thickness tolerance.



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

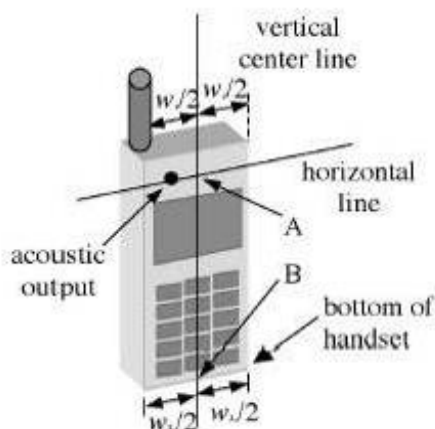


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

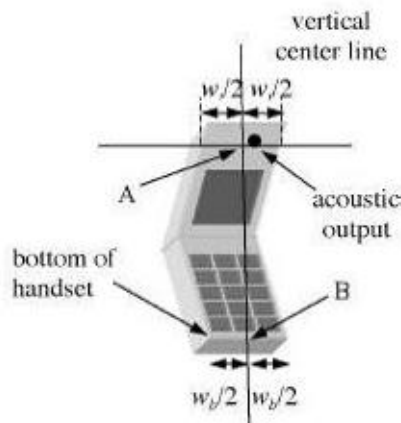


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



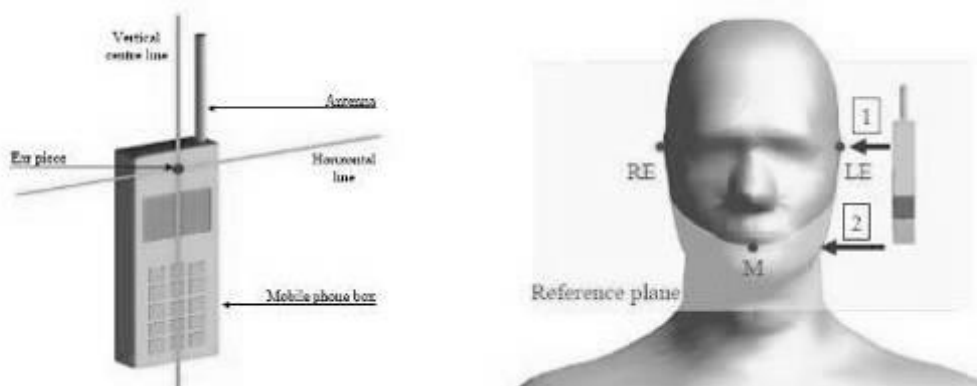
F-8. Handset vertical and horizontal reference lines-"clam-shell case"

5.1.3 Definition of the "cheek" position

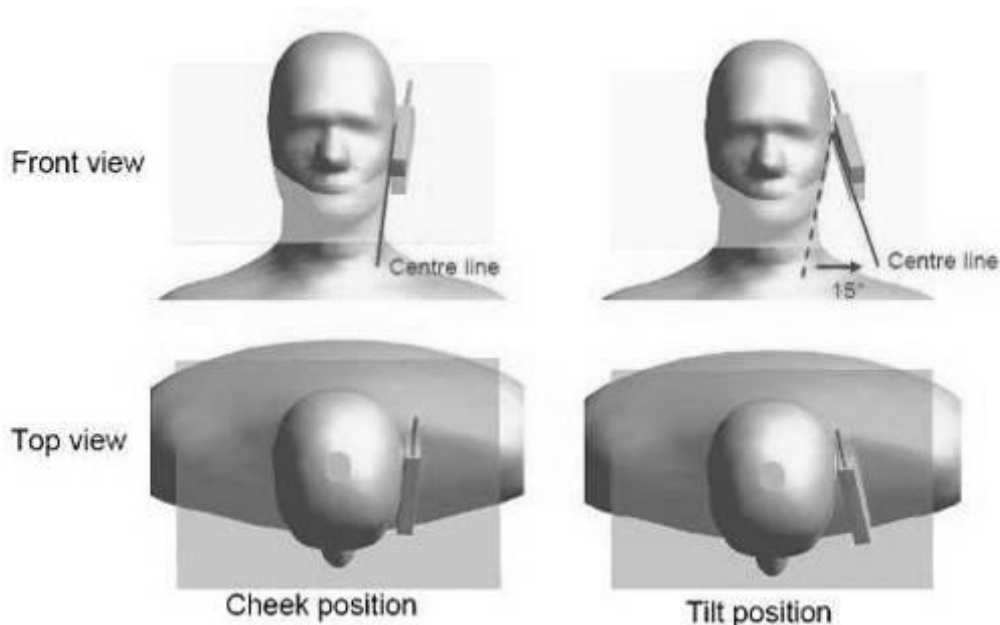
- Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the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

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



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



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



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5.2 Body Exposure Condition

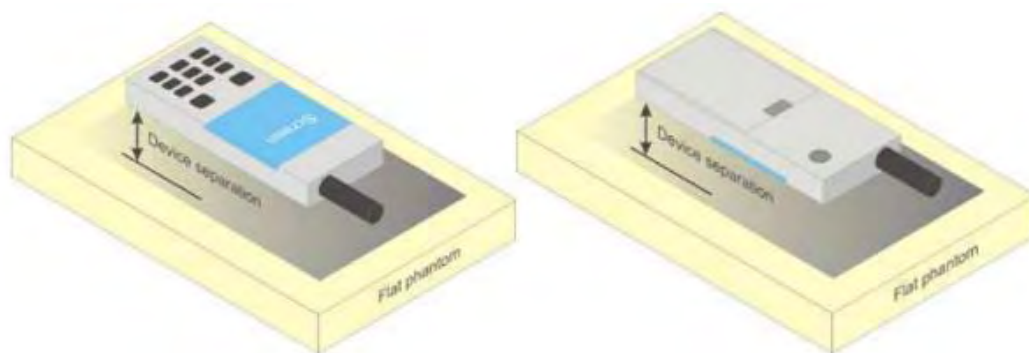
5.2.1 Body-worn accessory exposure conditions

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 $> 1.2 \text{ W/kg}$, 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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 $9 \text{ cm} \times 5 \text{ cm}$, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

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

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ 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 $> 1.2 \text{ W/kg}$; 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.

WCDMA Band II:

ANT0 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(W/kg)	Product Specific 10-g SAR SAR Exclusion
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.182	0.04	18.65	25.00	4.315	0.785	Yes
Back side	RMC	9400/1880	1:1	0.296	0.11	18.65	25.00	4.315	1.277	No
Left side	RMC	9400/1880	1:1	0.087	0.13	18.65	25.00	4.315	0.377	Yes
Right side	RMC	9400/1880	1:1	0.034	0.10	18.65	25.00	4.315	0.147	Yes
Bottom side	RMC	9400/1880	1:1	0.536	-0.04	18.65	25.00	4.315	2.313	No

WCDMA Band IV:

ANT0 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(W/kg)	Product Specific 10-g SAR SAR Exclusion
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.069	-0.06	18.52	25.00	4.446	0.307	Yes
Back side	RMC	1412/1732.4	1:1	0.271	0.17	18.52	25.00	4.446	1.205	No
Left side	RMC	1412/1732.4	1:1	0.055	0.12	18.52	25.00	4.446	0.246	Yes
Right side	RMC	1412/1732.4	1:1	0.025	0.06	18.52	25.00	4.446	0.112	Yes
Bottom side	RMC	1412/1732.4	1:1	0.728	0.18	18.52	25.00	4.446	3.237	No



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LTE Band 2:

ANT0 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 Exclusion
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	18900/1880	1:1	0.200	0.17	19.80	25.00	3.311	0.662	Yes
Back side	20	QPSK 1RB_50	18900/1880	1:1	0.323	0.14	19.80	25.00	3.311	1.070	Yes
Left side	20	QPSK 1RB_50	18900/1880	1:1	0.082	0.00	19.80	25.00	3.311	0.270	Yes
Right side	20	QPSK 1RB_50	18900/1880	1:1	0.045	0.09	19.80	25.00	3.311	0.150	Yes
Bottom side	20	QPSK 1RB_50	18900/1880	1:1	0.531	-0.07	19.80	25.00	3.311	1.758	No
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.187	-0.19	19.90	24.00	2.570	0.481	Yes
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.253	0.00	19.90	24.00	2.570	0.650	Yes
Left side	20	QPSK 50RB_0	18900/1880	1:1	0.077	0.05	19.90	24.00	2.570	0.198	Yes
Right side	20	QPSK 50RB_0	18900/1880	1:1	0.044	0.04	19.90	24.00	2.570	0.114	Yes
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	0.563	0.11	19.90	24.00	2.570	1.447	No

LTE Band 4:

ANT0 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 Exclusion
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.244	0.06	19.16	25.00	3.837	0.936	Yes
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.303	0.19	19.16	25.00	3.837	1.163	Yes
Left side	20	QPSK 1RB_50	20175/1732.5	1:1	0.066	0.09	19.16	25.00	3.837	0.252	Yes
Right side	20	QPSK 1RB_50	20175/1732.5	1:1	0.029	-0.15	19.16	25.00	3.837	0.110	Yes
Bottom side	20	QPSK 1RB_50	20175/1732.5	1:1	0.643	0.06	19.16	25.00	3.837	2.467	No
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.247	0.08	19.23	24.00	2.999	0.741	Yes
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.313	-0.12	19.23	24.00	2.999	0.939	Yes
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.064	0.04	19.23	24.00	2.999	0.192	Yes
Right side	20	QPSK 50RB_0	20175/1732.5	1:1	0.034	0.13	19.23	24.00	2.999	0.102	Yes
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.668	0.08	19.23	24.00	2.999	2.003	No



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LTE Band 7:

ANT3 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 Exclusion
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.061	0.04	17.55	25.00	5.559	0.339	Yes
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.617	0.08	17.55	25.00	5.559	3.430	No
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.291	0.01	17.55	25.00	5.559	1.618	No
Top side	20	QPSK 1RB_99	21350/2560	1:1	0.046	0.20	17.55	25.00	5.559	0.253	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.058	0.04	17.68	24.00	4.285	0.249	Yes
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.616	0.17	17.68	24.00	4.285	2.640	No
Left side	20	QPSK 50RB_0	21350/2560	1:1	0.255	0.14	17.68	24.00	4.285	1.093	Yes
Top side	20	QPSK 50RB_0	21350/2560	1:1	0.045	0.2	17.68	24.00	4.285	0.193	Yes

LTE Band 38:

ANT3 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 Exclusion
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.036	0.00	19.03	25.00	3.954	0.141	Yes
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.551	-0.10	19.03	25.00	3.954	2.178	No
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.161	0.02	19.03	25.00	3.954	0.637	Yes
Top side	20	QPSK 1RB_99	38150/2610	1:1.58	0.020	0.09	19.03	25.00	3.954	0.081	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.034	0.09	19.11	24.00	3.083	0.105	Yes
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.555	-0.17	19.11	24.00	3.083	1.711	No
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.173	0.02	19.11	24.00	3.083	0.533	Yes
Top side	20	QPSK 50RB_0	38150/2610	1:1.58	0.021	0.09	19.11	24.00	3.083	0.065	Yes



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LTE Band 41:

ANT3 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 Exclusion
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	41490/2680	1:1.58	0.033	0.00	19.90	25.00	3.236	0.106	Yes
Back side	20	QPSK 1RB_50	41490/2680	1:1.58	0.674	-0.03	19.90	25.00	3.236	2.181	No
Left side	20	QPSK 1RB_50	41490/2680	1:1.58	0.192	-0.19	19.90	25.00	3.236	0.621	Yes
Top side	20	QPSK 1RB_50	41490/2680	1:1.58	0.015	0.09	19.90	25.00	3.236	0.048	Yes
Back side	20	QPSK 1RB_50	39750/2506	1:1.58	0.318	0.16	19.41	25.00	3.622	1.152	Yes
Back side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.328	0.06	19.55	25.00	3.508	1.150	Yes
Back side	20	QPSK 1RB_50	40620/2593	1:1.58	0.341	0.09	19.66	25.00	3.420	1.166	Yes
Back side	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.351	0.19	19.75	25.00	3.350	1.176	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	41490/2680	1:1.58	0.035	0.00	19.96	24.00	2.535	0.088	Yes
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.683	0.14	19.96	24.00	2.535	1.731	No
Back side	20	QPSK 50RB_50	39750/2506	1:1.58	0.263	0.05	19.58	24.00	2.767	0.728	Yes
Back side	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.271	0.14	19.56	24.00	2.780	0.753	Yes
Back side	20	QPSK 50RB_50	40620/2593	1:1.58	0.341	0.19	19.68	24.00	2.704	0.922	Yes
Back side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.351	0.09	19.84	24.00	2.606	0.915	Yes
Left side	20	QPSK 50RB_0	41490/2680	1:1.58	0.155	-0.19	19.96	24.00	2.535	0.393	Yes
Top side	20	QPSK 50RB_0	41490/2680	1:1.58	0.015	0.09	19.96	24.00	2.535	0.038	Yes
Hotspot Test data (Separate 10mm 100%RB)											
Back side	20	QPSK 100RB_0	41490/2680	1:1.58	0.364	-0.04	19.90	24.00	2.570	0.936	Yes



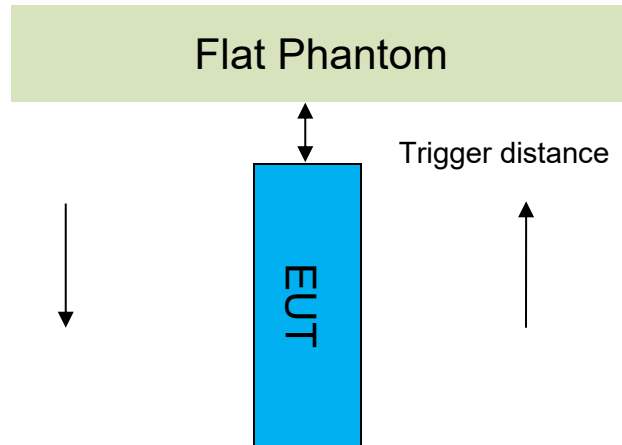
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5.4 Proximity Sensor Triggering Test

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.

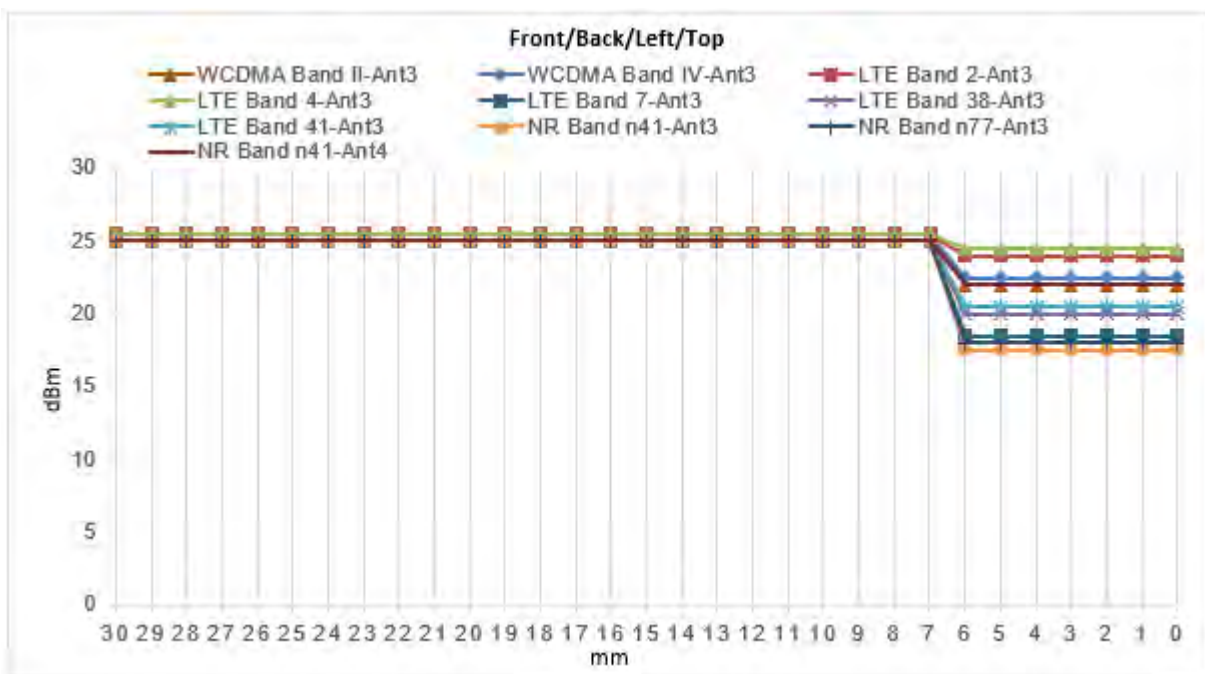
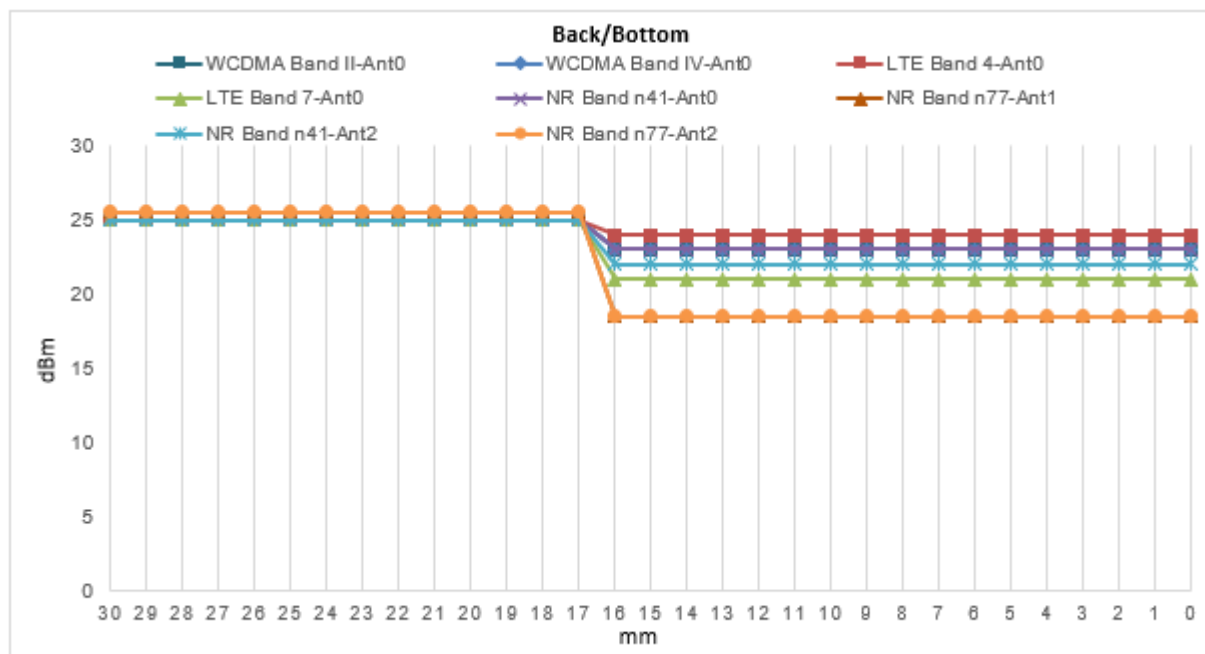


Proximity Sensor Triggering Distance(mm)					
Antenna	Ant0	Ant1	Ant2	Ant3	Ant4
Band	WCDMA B2/4, LTE B4/7, n41	n77	n41, n77	WCDMA B2/4, LTE B2/4/7/38/41, n41, n77	n41
Position	Back/Bottom			Front/Back/Left/Top	
Minimum	16			6	
Required SAR Test	15			5	

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

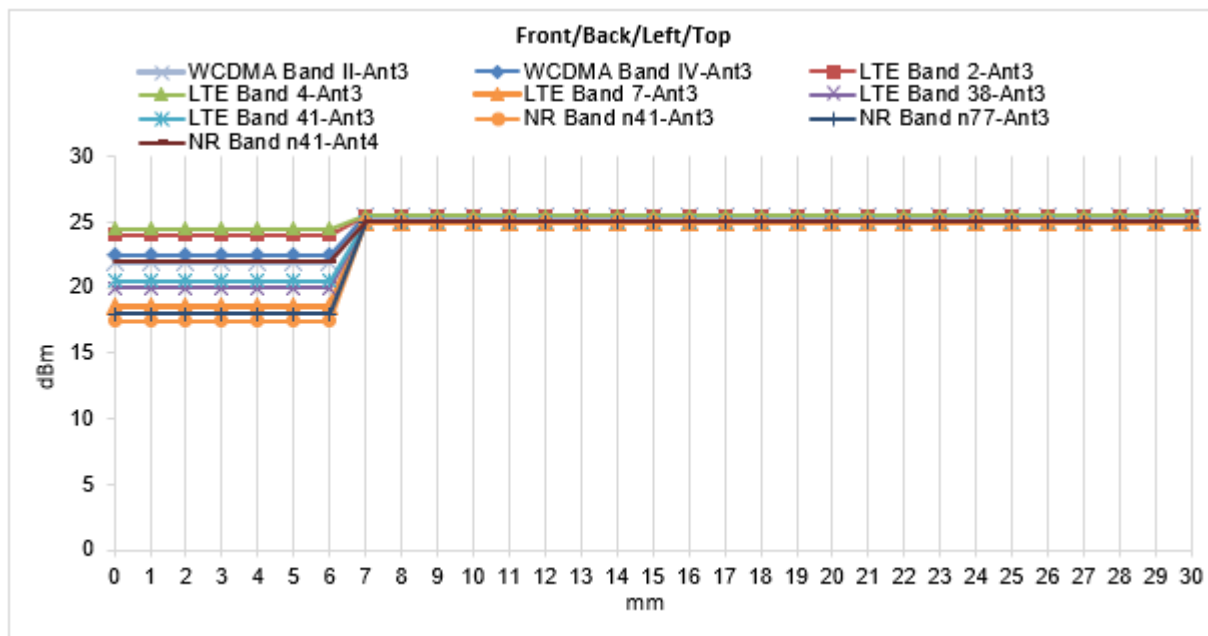
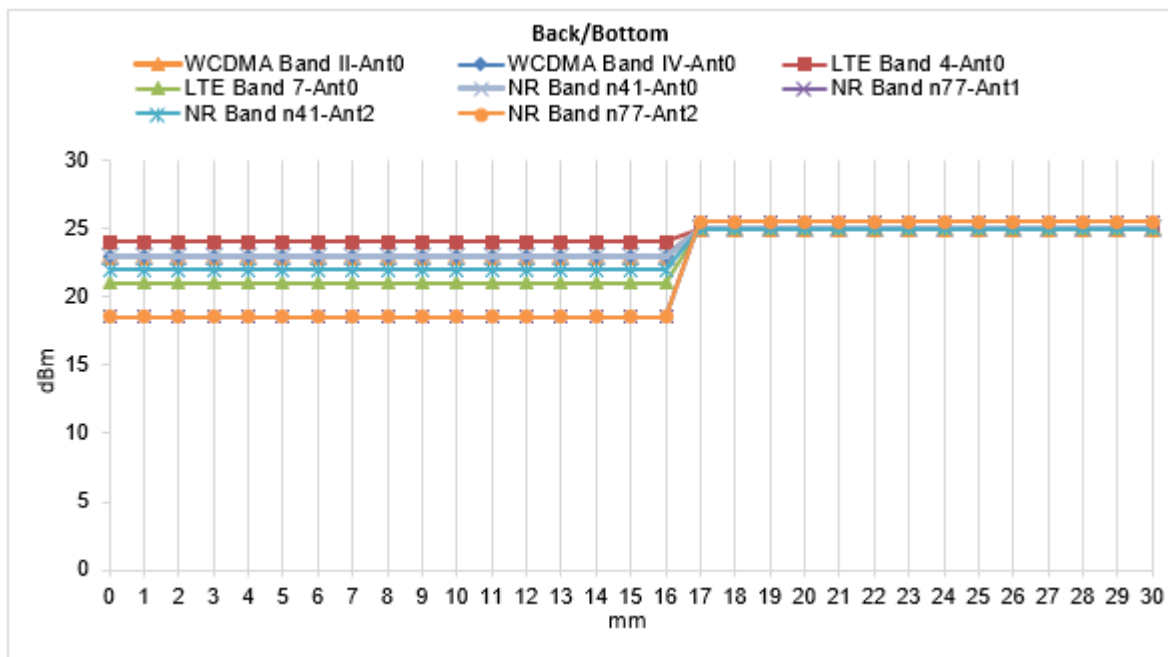


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● DUT Moving Away(Release) from the Phantom



Proximity sensor coverage

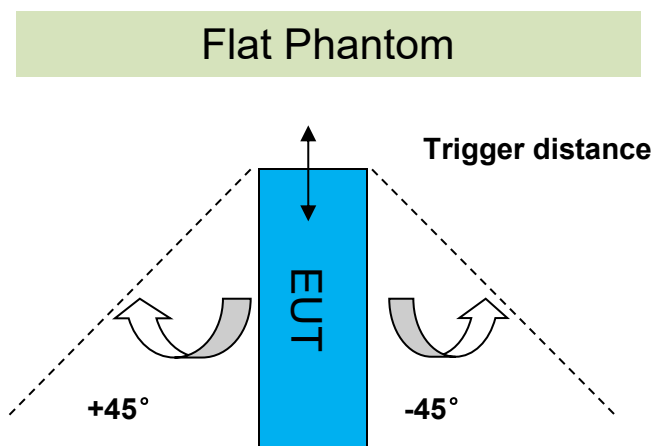
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, 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 $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side

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°
Ant0: WCDMA B2/4, LTE B4/7, n41	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant1: n77	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant2: n41, n77	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant3: WCDMA B2/4, LTE B2/4/7/38/41, n41, n77	Left side/Top side:6mm	Left side/Top side:6mm	on	on	on	on	on	on	on	on	on	on	on
Ant4: n41	Left side/Top side:6mm	Left side/Top side:6mm	on	on	on	on	on	on	on	on	on	on	on



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The following 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



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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). 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 $22 \pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^\circ\text{C}$)	Measured Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.744	0.901	22.1	2021-04-25
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.545	0.904	22.1	2021-04-26
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.684	0.913	22.1	2021-04-27
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.496	1.324	22.2	2021-04-30
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.511	1.326	22.2	2021-05-01
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	38.780	1.398	22.3	2021-04-28
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.300	1.387	22.3	2021-04-29
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.392	1.822	22.0	2021-05-07
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.239	1.825	22.0	2021-05-08
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.109	1.974	22.1	2021-05-02
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.772	2.022	22.1	2021-05-03
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.018	2.017	22.1	2021-05-04
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.414	2.008	22.1	2021-05-05
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.094	1.974	22.1	2021-05-06
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.756	1.963	22.1	2021-05-09
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.714	1.933	22.1	2021-05-10
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.194	2.028	22.1	2021-05-24
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.205	3.070	22.1	2021-05-11
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.590	3.227	22.1	2021-05-12
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.890	3.236	22.1	2021-05-24
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.495	3.283	22.1	2021-05-11
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.972	3.454	22.1	2021-05-12
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	37.249	3.466	22.1	2021-05-24
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	35.906	4.696	22.2	2021-05-01



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5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	35.620	4.641	22.2	2021-05-04
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	34.953	5.081	22.2	2021-05-02
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	34.667	5.023	22.2	2021-05-05
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.590	5.252	22.2	2021-05-03
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.304	5.192	22.2	2021-05-06

Table 4: Measurement result of Tissue electric parameters

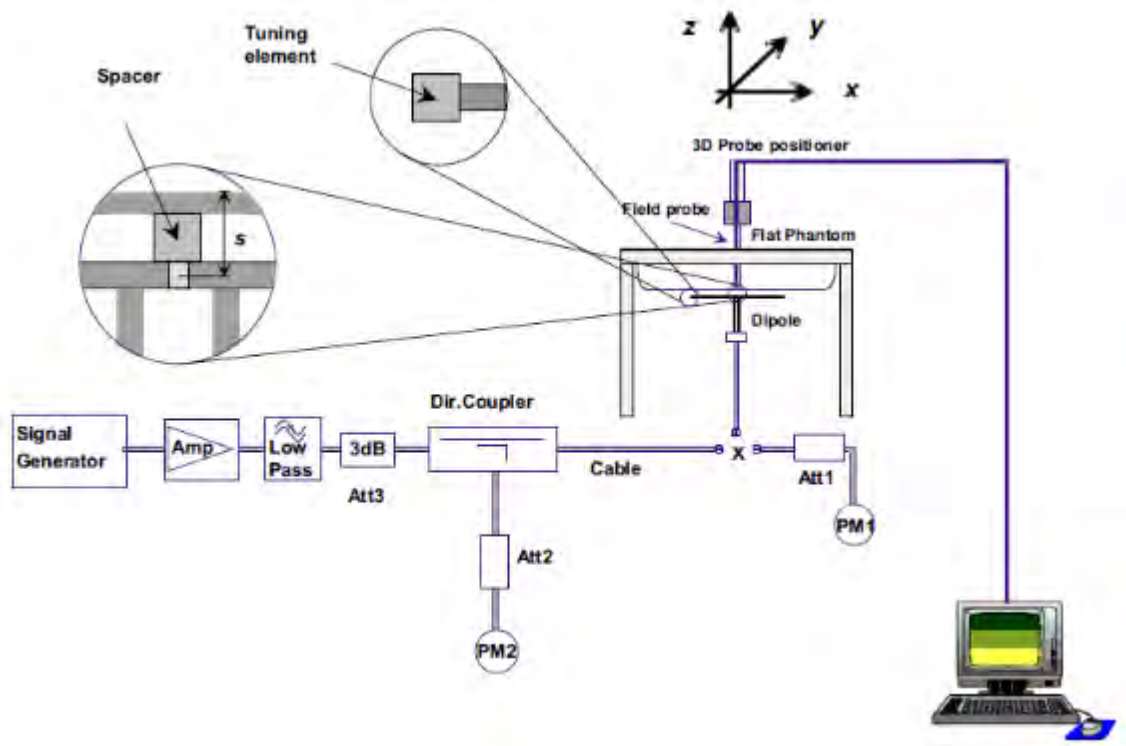


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6.2 SAR System Check

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 $\pm 10\%$ 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 $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ 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. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D835V2	Head	2.51	1.64	10.04	6.56	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021-04-25
D835V2	Head	2.48	1.63	9.92	6.52	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021-04-26
D835V2	Head	2.54	1.66	10.16	6.64	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021-04-27
D1750V2	Head	8.50	4.58	34.00	18.32	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021-04-30
D1750V2	Head	8.55	4.60	34.20	18.40	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021-05-01
D1900V2	Head	10.30	5.34	41.20	21.36	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021-04-28
D1900V2	Head	10.26	5.31	41.04	21.24	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021-04-29
D2450V2	Head	13.20	6.11	52.80	24.44	51.9 (46.71~57.09)	23.8 (21.42~26.18)	22.0	2021-05-07
D2450V2	Head	13.24	6.13	52.96	24.52	51.9 (46.71~57.09)	23.8 (21.42~26.18)	22.0	2021-05-08
D2600V2	Head	13.60	6.08	54.40	24.32	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-02
D2600V2	Head	14.00	6.23	56.00	24.92	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-03
D2600V2	Head	13.96	6.21	55.84	24.84	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-04
D2600V2	Head	13.90	6.19	55.60	24.76	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-05
D2600V2	Head	13.60	6.08	54.40	24.32	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-06
D2600V2	Head	13.57	6.06	54.28	24.24	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-09
D2600V2	Head	13.30	5.96	53.20	23.84	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-10
D2600V2	Head	13.94	6.20	55.76	24.80	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021-05-24
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. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D3700V2	Head(3.7GHz)	6.29	2.30	62.90	23.00	67.8 (61.02~74.58)	24.7 (22.23~27.17)	22.1	2021-05-11
D3700V2	Head(3.7GHz)	6.35	2.32	63.50	23.20	67.8 (61.02~74.58)	24.7 (22.23~27.17)	22.1	2021-05-12
D3700V2	Head(3.7GHz)	6.39	2.34	63.90	23.40	67.8 (61.02~74.58)	24.7 (22.23~27.17)	22.1	2021-05-24
D3900V2	Head(3.9GHz)	7.02	2.52	70.20	25.20	71.1 (63.99~78.21)	24.6 (22.14~27.06)	22.1	2021-05-11
D3900V2	Head(3.9GHz)	7.48	2.68	74.80	26.80	71.1 (63.99~78.21)	24.6 (22.14~27.06)	22.1	2021-05-12
D3900V2	Head(3.9GHz)	7.41	2.66	74.10	26.60	71.1 (63.99~78.21)	24.6 (22.14~27.06)	22.1	2021-05-24



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D5GHzV2	Head(5.25GHz)	7.92	2.28	79.20	22.80	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.2	2021-05-01
	Head(5.25GHz)	7.14	2.03	71.40	20.30	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.2	2021-05-04
	Head(5.6GHz)	8.44	2.41	84.40	24.10	80.0 (72.0~88.0)	22.7 (20.43~24.97)	22.2	2021-05-02
	Head(5.6GHz)	7.71	2.18	77.10	21.80	80.0 (72.0~88.0)	22.7 (20.43~24.97)	22.2	2021-05-05
	Head(5.75GHz)	7.80	2.22	78.00	22.20	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.2	2021-05-03
	Head(5.75GHz)	8.26	2.35	82.60	23.50	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.2	2021-05-06

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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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 $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 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



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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 spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 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(β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βc	Bd	$\beta d(SF)$	$\beta c/\beta d$	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: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ Ahs = $\beta hs/\beta c = 30/15$ $\beta hs = 30/15 * \beta c$
Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta NACK = 8$ (Ahs = 30/15) with $\beta hs = 30/15 * \beta c$, and $\Delta CQI = 7$ (Ahs = 24/15) with $\beta hs = 24/15 * \beta c$.
Note3: CM = 1 for $\beta c/\beta d = 12/15$, $\beta hs/\beta c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

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

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



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum H S-DSCH Transport Block Bits/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 ¹	β_c ²	β_d ³	β_d (SF) ⁴	β_c/β_d ⁵	β_{hs} ⁶	β_{hs}/β_c ⁷	β_{ed} ⁸	β_c (SF) ⁹	β_{ed} (code) ¹⁰	CM ¹¹ (dB) ¹²	MP R ¹³ (dB) ¹⁴	AG ¹⁵ (dB) ¹⁶	E-TFC I ¹⁷
1 ¹⁸	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ¹⁹	11/15 ⁽³⁾	22/15 ²⁰	209/225 ²¹	1039/225 ²²	4 ²³	1 ²⁴	1.0 ²⁵	0.0 ²⁶	20 ²⁷	75 ²⁸
2 ²⁹	6/15 ³⁰	15/15 ³¹	64 ³²	6/15 ³³	12/15 ³⁴	12/15 ³⁵	94/75 ³⁶	4 ³⁷	1 ³⁸	3.0 ³⁹	2.0 ⁴⁰	12 ⁴¹	67 ⁴²
3 ⁴³	15/15 ⁴⁴	9/15 ⁴⁵	64 ⁴⁶	15/9 ⁴⁷	30/15 ⁴⁸	30/15 ⁴⁹	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 ⁵⁰	2 ⁵¹	2.0 ⁵²	1.0 ⁵³	15 ⁵⁴	92 ⁵⁵
4 ⁵⁶	2/15 ⁵⁷	15/15 ⁵⁸	64 ⁵⁹	2/15 ⁶⁰	4/15 ⁶¹	2/15 ⁶²	56/75 ⁶³	4 ⁶⁴	1 ⁶⁵	3.0 ⁶⁶	2.0 ⁶⁷	17 ⁶⁸	71 ⁶⁹
5 ⁷⁰	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁷¹	15/15 ⁽⁴⁾	30/15 ⁷²	24/15 ⁷³	134/15 ⁷⁴	4 ⁷⁵	1 ⁷⁶	1.0 ⁷⁷	0.0 ⁷⁸	21 ⁷⁹	81 ⁸⁰

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
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 Spreading 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&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

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

Table 9: HSUPA UE category



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c) **DC-HSDPA**

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

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

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

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/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.



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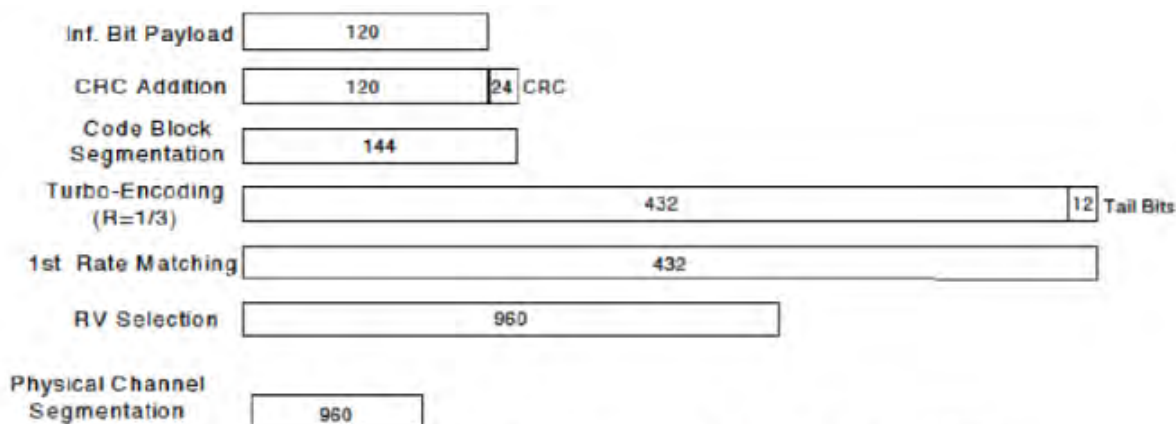


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c/β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

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



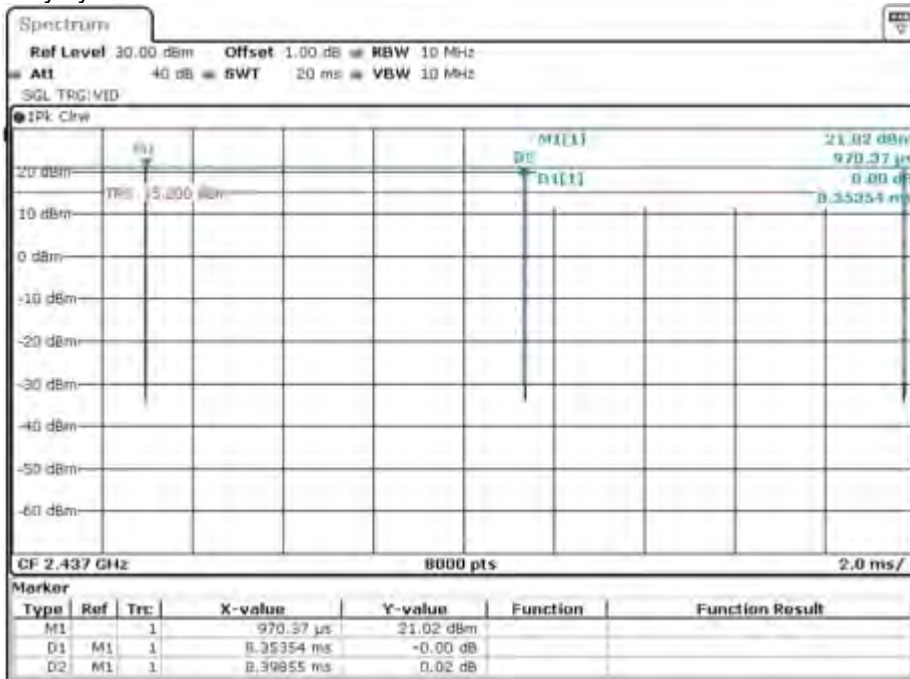
7.2.3 WiFi Test Configuration

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

1) Wi-Fi 2.4GHz 802.11b(Ant6):

Duty cycle= $8.35354/8.39855=99.46\%$

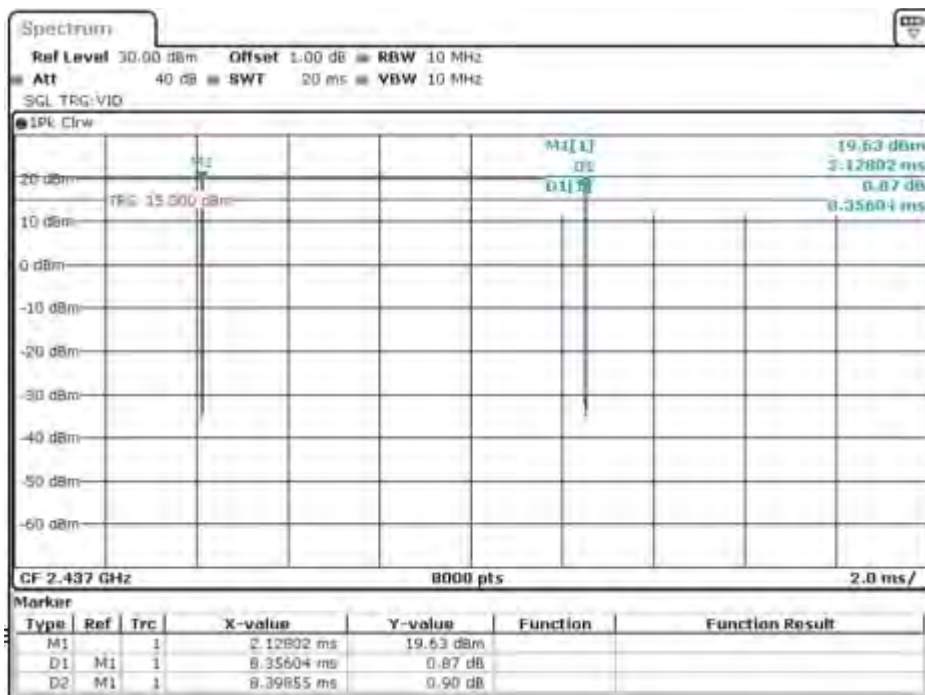


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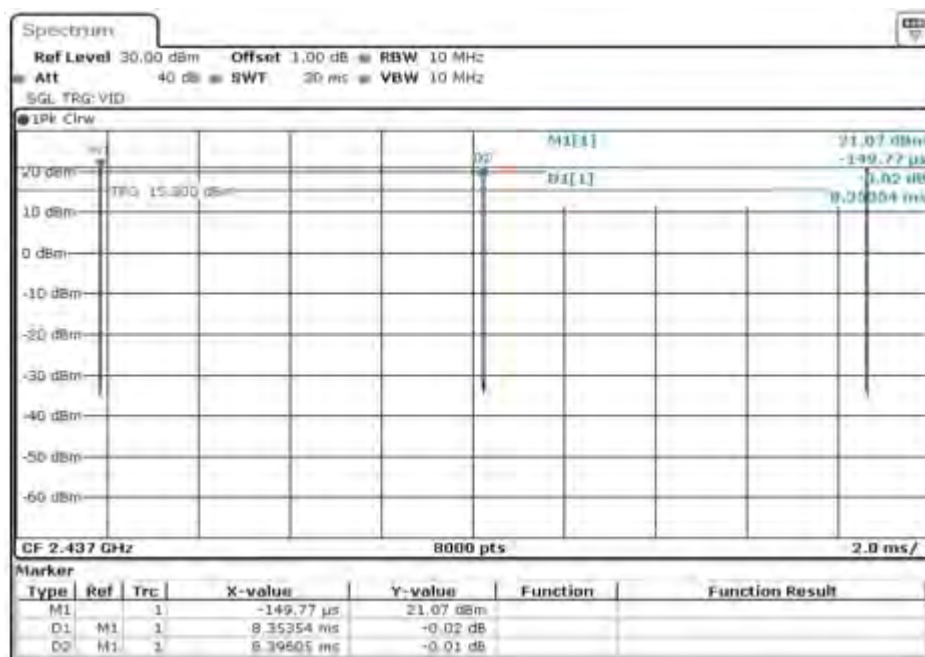
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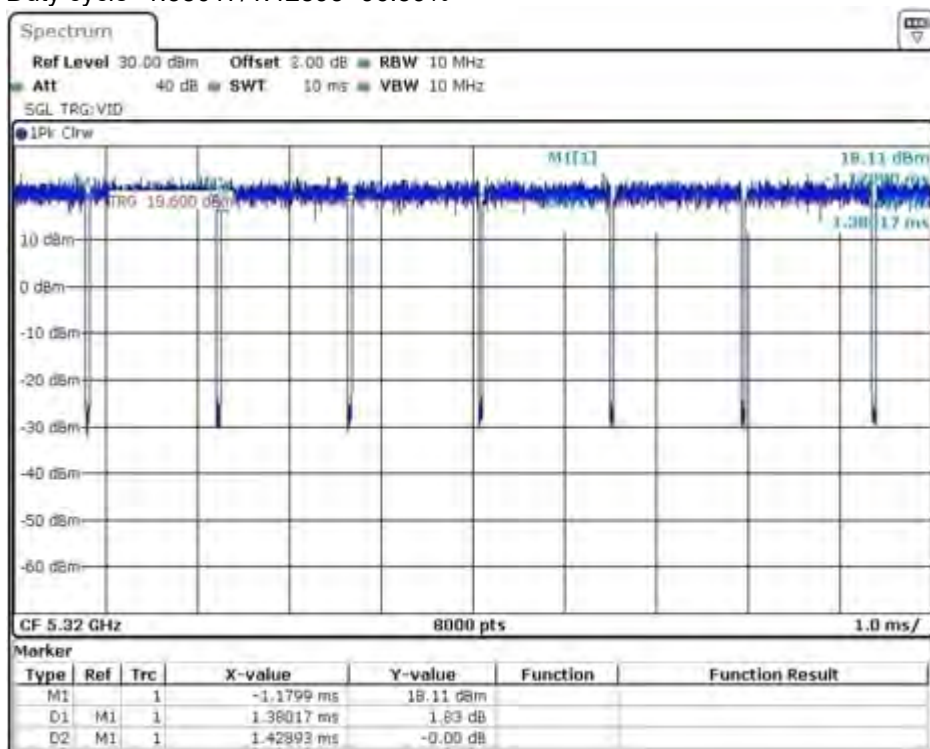
2) Wi-Fi 2.4GHz 802.11b(Ant7):
Duty cycle=8.35604/8.39855=99.49%



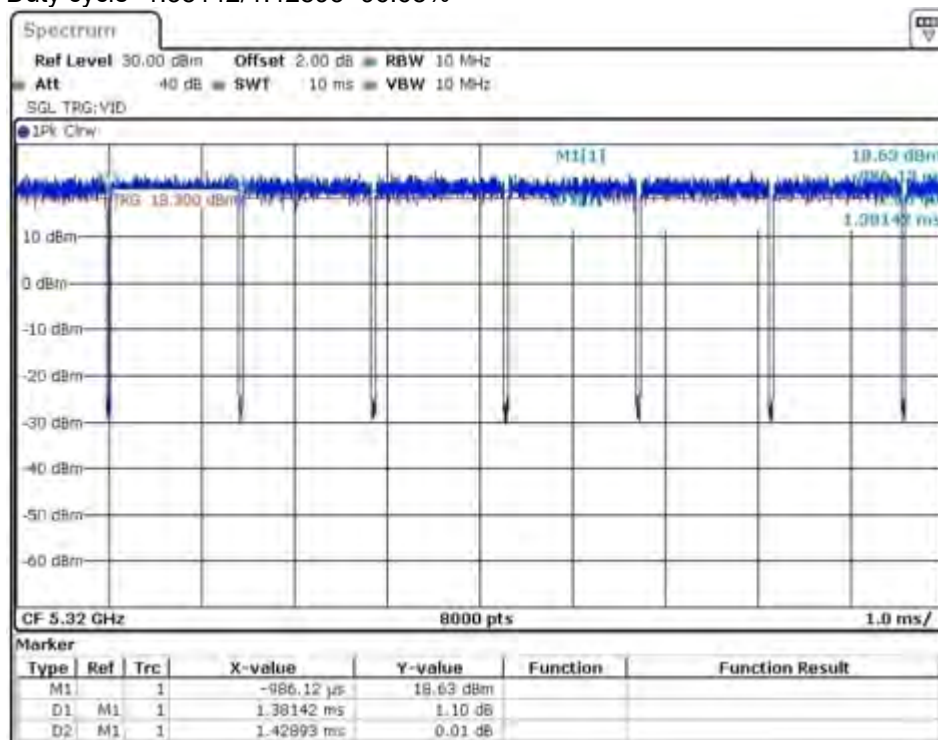
3) Wi-Fi 2.4GHz 802.11b(MIMO):
Duty cycle=8.35354/8.39605=99.49%



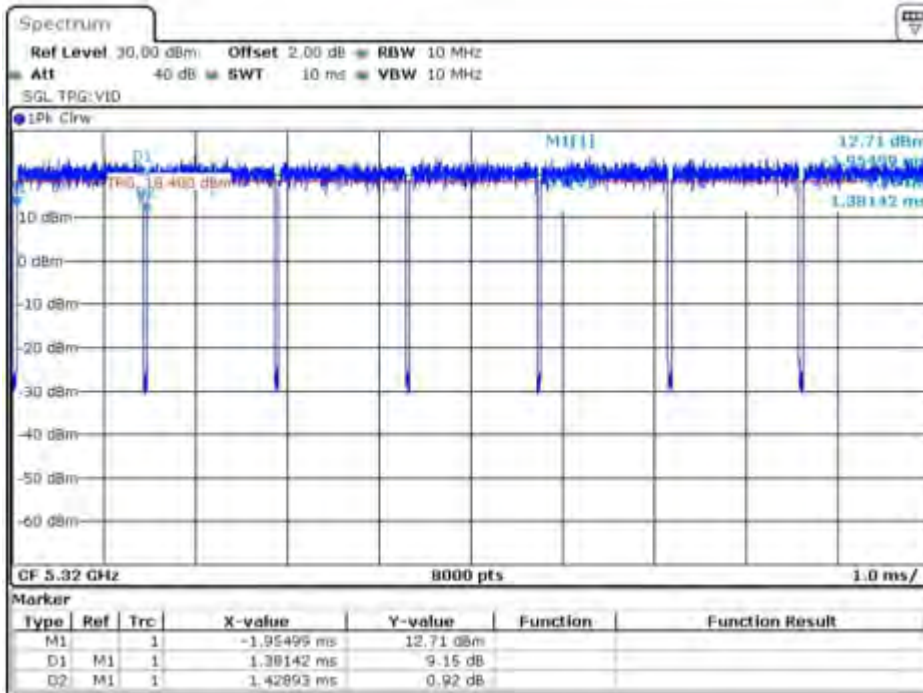
4) Wi-Fi 5GHz 802.11a(Ant6):
Duty cycle=1.38017/1.42893=96.59%



5) Wi-Fi 5GHz 802.11a(Ant7):
Duty cycle=1.38142/1.42893=96.68%



6) Wi-Fi 5GHz 802.11a(MIMO):
 Duty cycle =1.38142/1.42893=96.68%





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.



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- 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"



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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.



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7.2.3.6 5 GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 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. If 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 (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

- **U-NII-2C and U-NII-3 Bands**

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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• **OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements**

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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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 MT8821C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

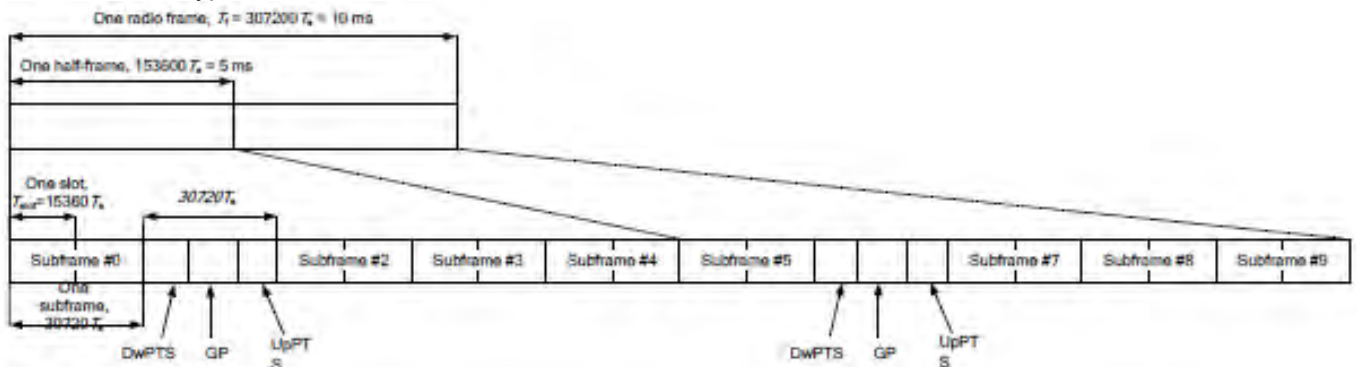
TDD LTE test consideration

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

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

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

Frame structure type 2:



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

Special 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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth / Transmission bandwidth configuration [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
256 QAM	≥ 1						≤ 5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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7.2.5 NR Band Test Configuration

1. NR Band n41/n77 only support SA mode.

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

Band		n41	n77
NR mode	SA	Yes	Yes
	NSA	N/A	N/A
Modulation	PI/2 BPSK	Yes	Yes
	QPSK	Yes	Yes
	16QAM	Yes	Yes
	64QAM	Yes	Yes
	256QAM	Yes	Yes
	QPSK	Yes	Yes
	16QAM	Yes	Yes
	64QAM	Yes	Yes
	256QAM	Yes	Yes
Duty Cycle		100%	100%

Band	SCS	Bandwidth												
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
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	N/A	N/A	N/A	N/A	N/A	Yes	N/A	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	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes



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3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- 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 $\frac{1}{2}$ 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.
 - 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 $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
 - 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.
 - 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - 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.
 - PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ 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.
 - Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

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

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	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 n41, n77. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n41, n77 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n41, n77.



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8 Test Result

8.1 Measurement of RF Conducted Power

Note: The detailed conducted power table can refer to Appendix E.

8.1.1 Conducted Power of GSM

Note:

- 1) . CMW500 measures GSM peak and average output power for active timeslots. For 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 = $10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$
- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used

8.1.2 Conducted Power of WCDMA

Note:

- 1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

8.1.3 Conducted Power of LTE



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8.1.4 Conducted Power of Uplink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion. 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.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C were used.

8.1.4.1 Conducted Power of Uplink LTE CA

Note:

- 1) This device supports uplink carrier aggregation for LTE CA_7C, CA_38C, CA_41C with a maximum of two 20MHz component carriers.
- 2) 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.
- 3) 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.
- 4) Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.



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8.1.4.2 Conducted Power of Downlink LTE CA

In this section, the following 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 1/4 dB higher than the maximum output power measured when downlink carrier aggregation is inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

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 below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

Note:

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.



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8.1.5 Conducted Power of WIFI

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) 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.
- c) 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.



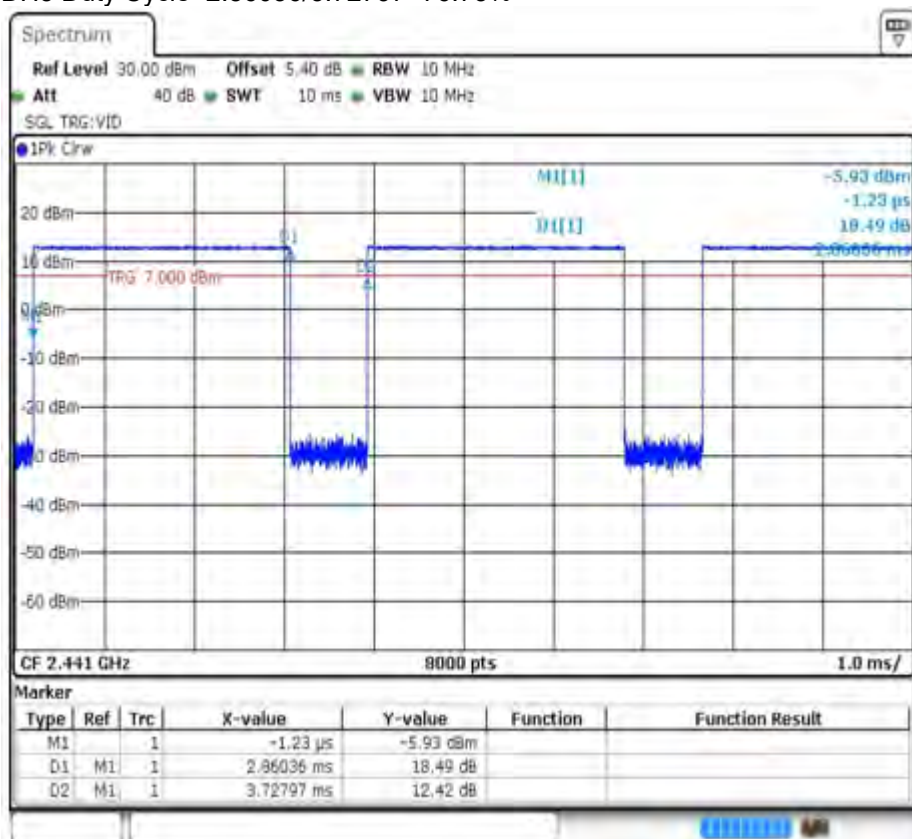
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8.1.6 Conducted Power of BT

DH5 Duty Cycle=2.86036/3.72797=76.73%



Note:

1) The conducted power of BT is measured with RMS detector.



8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW				
Wi-Fi	2.45	Head	15.5	35.5	0	11.1	3	N
		Body-worn	15.5	35.5	15	3.7	3	N
		hotspot	15.5	35.5	10	5.6	3	N
Wi-Fi	5	Head	16.5	44.7	0	20.0	3	N
		Body-worn	17.5	56.2	15	8.4	3	N
		hotspot	17.5	56.2	10	12.6	3	N
Bluetooth	2.48	Head	12.0	15.8	0	5.0	3	N
		Body-worn	12.0	15.8	15	1.7	3	Y
		hotspot	12.0	15.8	10	2.5	3	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 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:
 - $\leq 0.8 \text{ W/kg}$ for 1-g or 2.0 W/kg for 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$.
 - $\leq 0.6 \text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4 \text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200 \text{ MHz}$.

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 $\leq 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$, SAR test for the other 802.11 modes are not required.



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8.3.1 SAR Result of GSM850

ANT0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.130	0.05	33.19	34.00	1.205	0.157	22.1
Left tilted	GSM	190/836.6	1:8.3	0.057	0.16	33.19	34.00	1.205	0.069	22.1
Right cheek	GSM	190/836.6	1:8.3	0.203	0.09	33.19	34.00	1.205	0.245	22.1
Right tilted	GSM	190/836.6	1:8.3	0.059	0.07	33.19	34.00	1.205	0.071	22.1
Right cheek with Battery2	GSM	190/836.6	1:8.3	0.196	0.05	33.19	34.00	1.205	0.236	22.1
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.117	-0.03	33.19	34.00	1.205	0.141	22.1
Back side	GSM	190/836.6	1:8.3	0.148	-0.09	33.19	34.00	1.205	0.178	22.1
Back side with Battery2	GSM	190/836.6	1:8.3	0.144	-0.05	33.19	34.00	1.205	0.174	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.143	-0.03	26.67	28.00	1.358	0.194	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.210	-0.12	26.67	28.00	1.358	0.285	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.064	-0.04	26.67	28.00	1.358	0.087	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.151	-0.04	26.67	28.00	1.358	0.205	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.197	-0.10	26.67	28.00	1.358	0.268	22.1
Back side with Battery2	GPRS 4TS	190/836.6	1:2.075	0.203	-0.01	26.67	28.00	1.358	0.276	22.1
ANT4 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.872	0.01	33.55	34.00	1.109	0.967	22.1
Left cheek	GSM	128/824.2	1:8.3	0.839	-0.10	33.40	34.00	1.148	0.963	22.1
Left cheek	GSM	251/848.8	1:8.3	0.858	-0.17	33.50	34.00	1.122	0.963	22.1
Left tilted	GSM	190/836.6	1:8.3	0.701	-0.04	33.55	34.00	1.109	0.778	22.1
Left tilted	GSM	128/824.2	1:8.3	0.590	0.01	33.40	34.00	1.148	0.677	22.1
Left tilted	GSM	251/848.8	1:8.3	0.617	-0.04	33.50	34.00	1.122	0.692	22.1
Right cheek	GSM	190/836.6	1:8.3	0.838	0.01	33.55	34.00	1.109	0.929	22.1
Right cheek	GSM	128/824.2	1:8.3	0.821	-0.04	33.40	34.00	1.148	0.943	22.1
Right cheek	GSM	251/848.8	1:8.3	0.832	-0.09	33.50	34.00	1.122	0.934	22.1
Right tilted	GSM	190/836.6	1:8.3	0.760	0.00	33.55	34.00	1.109	0.843	22.1
Right tilted	GSM	128/824.2	1:8.3	0.577	-0.03	33.40	34.00	1.148	0.662	22.1
Right tilted	GSM	251/848.8	1:8.3	0.774	0.00	33.50	34.00	1.122	0.868	22.1
Left cheek-Repeat	GSM	190/836.6	1:8.3	0.826	0.02	33.55	34.00	1.109	0.916	22.1
Left cheek with Battery2	GSM	190/836.6	1:8.3	0.824	0.05	33.55	34.00	1.109	0.914	22.1
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.139	-0.01	33.55	34.00	1.109	0.154	22.1
Back side	GSM	190/836.6	1:8.3	0.169	0.05	33.55	34.00	1.109	0.187	22.1
Back side with Battery2	GSM	190/836.6	1:8.3	0.164	0.02	33.55	34.00	1.109	0.182	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.183	0.03	26.64	28.00	1.368	0.250	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.235	-0.12	26.64	28.00	1.368	0.321	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.117	0.00	26.64	28.00	1.368	0.160	22.1
Top side	GPRS 4TS	190/836.6	1:2.075	0.158	-0.08	26.64	28.00	1.368	0.216	22.1
Back side with Battery2	GPRS 4TS	190/836.6	1:2.075	0.228	-0.02	26.64	28.00	1.368	0.312	22.1

Table 11: SAR of GSM850



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	190/836.6	0.872	0.826	1.056	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 performed 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 ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed 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





8.3.2 SAR Result of GSM1900

ANT0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.080	-0.05	30.62	31.00	1.091	0.087	22.3
Left tilted	GSM	661/1880	1:8.3	0.073	0.05	30.62	31.00	1.091	0.079	22.3
Right cheek	GSM	661/1880	1:8.3	0.097	-0.15	30.62	31.00	1.091	0.106	22.3
Right tilted	GSM	661/1880	1:8.3	0.050	0.04	30.62	31.00	1.091	0.055	22.3
Right cheek with Battery2	GSM	661/1880	1:8.3	0.095	-0.01	30.62	31.00	1.091	0.104	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.176	0.03	30.62	31.00	1.091	0.192	22.3
Back side	GSM	661/1880	1:8.3	0.243	0.02	30.62	31.00	1.091	0.265	22.3
Back side with Battery2	GSM	661/1880	1:8.3	0.238	0.01	30.62	31.00	1.091	0.260	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.111	0.03	20.56	21.50	1.242	0.138	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.149	0.09	20.56	21.50	1.242	0.185	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.044	-0.05	20.56	21.50	1.242	0.054	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.024	-0.05	20.56	21.50	1.242	0.029	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.341	-0.13	20.56	21.50	1.242	0.423	22.3
Bottom side with Battery2	GPRS 4TS	661/1880	1:2.075	0.328	-0.13	20.56	21.50	1.242	0.407	22.3
ANT3 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.123	0.11	30.80	31.00	1.047	0.129	22.3
Left tilted	GSM	661/1880	1:8.3	0.108	0.08	30.80	31.00	1.047	0.113	22.3
Right cheek	GSM	661/1880	1:8.3	0.452	-0.03	30.80	31.00	1.047	0.473	22.3
Right tilted	GSM	661/1880	1:8.3	0.105	0.04	30.80	31.00	1.047	0.110	22.3
Right cheek with Battery2	GSM	661/1880	1:8.3	0.436	-0.03	30.80	31.00	1.047	0.457	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.048	-0.07	30.80	31.00	1.047	0.050	22.3
Back side	GSM	661/1880	1:8.3	0.173	-0.01	30.80	31.00	1.047	0.181	22.3
Back side with Battery2	GSM	661/1880	1:8.3	0.166	-0.01	30.80	31.00	1.047	0.174	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.042	0.10	24.13	25.00	1.222	0.051	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.411	0.01	24.13	25.00	1.222	0.502	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.195	0.13	24.13	25.00	1.222	0.238	22.3
Top side	GPRS 4TS	661/1880	1:2.075	0.035	0.15	24.13	25.00	1.222	0.043	22.3
Back side with Battery2	GPRS 4TS	661/1880	1:2.075	0.396	0.01	24.13	25.00	1.222	0.484	22.3

Table 12: SAR of GSM1900





8.3.3 SAR Result of WCDMA Band II

ANT0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.195	0.14	24.22	25.00	1.197	0.233	22.3
Left tilted	RMC	9400/1880	1:1	0.162	0.15	24.22	25.00	1.197	0.194	22.3
Right cheek	RMC	9400/1880	1:1	0.220	-0.19	24.22	25.00	1.197	0.263	22.3
Right tilted	RMC	9400/1880	1:1	0.149	0.05	24.22	25.00	1.197	0.178	22.3
Right cheek with Battery2	RMC	9400/1880	1:1	0.215	-0.01	24.22	25.00	1.197	0.257	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.433	-0.11	24.22	25.00	1.197	0.518	22.3
Back side	RMC	9400/1880	1:1	0.577	-0.05	24.22	25.00	1.197	0.691	22.3
Back side with Battery2	RMC	9400/1880	1:1	0.576	-0.09	24.22	25.00	1.197	0.689	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.182	0.04	18.65	19.50	1.216	0.221	22.3
Back side	RMC	9400/1880	1:1	0.296	0.11	18.65	19.50	1.216	0.360	22.3
Left side	RMC	9400/1880	1:1	0.087	0.13	18.65	19.50	1.216	0.106	22.3
Right side	RMC	9400/1880	1:1	0.034	0.10	18.65	19.50	1.216	0.041	22.3
Bottom side	RMC	9400/1880	1:1	0.536	-0.04	18.65	19.50	1.216	0.652	22.3
Bottom side with Battery2	RMC	9400/1880	1:1	0.533	-0.03	18.65	19.50	1.216	0.648	22.3
Test position	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(W/kg)	Liquid Temp
Product Specific 10-g SAR Sensor on(Separate 0mm)										
Back side	RMC	9400/1880	1:1	2.000	0.10	22.29	23.00	1.178	2.355	22.3
Back side	RMC	9262/1852.4	1:1	1.960	0.02	22.24	23.00	1.191	2.335	22.3
Back side	RMC	9538/1907.6	1:1	2.060	0.01	22.28	23.00	1.180	2.431	22.3
Bottom side	RMC	9400/1880	1:1	1.450	-0.10	22.29	23.00	1.178	1.708	22.3
Back side with Battery2	RMC	9538/1907.6	1:1	2.020	0.10	22.28	23.00	1.180	2.384	22.3
Product Specific 10-g SAR Sensor off(Separate 15mm)										
Back side	RMC	9400/1880	1:1	0.232	-0.12	24.22	25.00	1.197	0.278	22.3
Bottom side	RMC	9400/1880	1:1	0.352	0.10	24.22	25.00	1.197	0.421	22.3
ANT3 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.239	0.15	24.50	25.50	1.259	0.301	22.3
Left tilted	RMC	9400/1880	1:1	0.160	-0.07	24.50	25.50	1.259	0.201	22.3
Right cheek	RMC	9400/1880	1:1	0.401	-0.03	24.50	25.50	1.259	0.505	22.3
Right tilted	RMC	9400/1880	1:1	0.194	0.08	24.50	25.50	1.259	0.244	22.3
Right cheek with Battery2	RMC	9400/1880	1:1	0.395	-0.01	24.50	25.50	1.259	0.497	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.082	0.02	24.50	25.50	1.259	0.103	22.3
Back side	RMC	9400/1880	1:1	0.382	0.01	24.50	25.50	1.259	0.481	22.3
Back side with Battery2	RMC	9400/1880	1:1	0.374	0.03	24.50	25.50	1.259	0.471	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.053	0.17	20.91	22.00	1.285	0.068	22.3
Back side	RMC	9400/1880	1:1	0.343	0.09	20.91	22.00	1.285	0.441	22.3
Left side	RMC	9400/1880	1:1	0.180	0.19	20.91	22.00	1.285	0.231	22.3
Top side	RMC	9400/1880	1:1	0.041	-0.01	20.91	22.00	1.285	0.053	22.3
Back side with Battery2	RMC	9400/1880	1:1	0.334	0.17	20.91	22.00	1.285	0.429	22.3

Table 13: SAR of WCDMA Band II



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8.3.4 SAR Result of WCDMA Band IV

ANT0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.095	-0.09	24.19	25.00	1.205	0.114	22.2
Left tilted	RMC	1412/1732.4	1:1	0.070	0.10	24.19	25.00	1.205	0.084	22.2
Right cheek	RMC	1412/1732.4	1:1	0.138	-0.19	24.19	25.00	1.205	0.166	22.2
Right tilted	RMC	1412/1732.4	1:1	0.079	0.15	24.19	25.00	1.205	0.095	22.2
Right cheek with Battery2	RMC	1412/1732.4	1:1	0.131	-0.01	24.19	25.00	1.205	0.158	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.426	-0.01	24.19	25.00	1.205	0.513	22.2
Back side	RMC	1412/1732.4	1:1	0.690	0.06	24.19	25.00	1.205	0.831	22.2
Back side	RMC	1312/1712.4	1:1	0.754	0.01	24.18	25.00	1.208	0.911	22.2
Back side	RMC	1513/1752.6	1:1	0.655	0.00	24.18	25.00	1.208	0.791	22.2
Back side with Battery2	RMC	1312/1712.4	1:1	0.618	0.02	24.18	25.00	1.208	0.746	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.069	-0.06	18.52	19.50	1.253	0.086	22.2
Back side	RMC	1412/1732.4	1:1	0.271	0.17	18.52	19.50	1.253	0.340	22.2
Left side	RMC	1412/1732.4	1:1	0.055	0.12	18.52	19.50	1.253	0.069	22.2
Right side	RMC	1412/1732.4	1:1	0.025	0.06	18.52	19.50	1.253	0.032	22.2
Bottom side	RMC	1412/1732.4	1:1	0.728	0.18	18.52	19.50	1.253	0.912	22.2
Bottom side	RMC	1312/1712.4	1:1	0.702	-0.20	18.58	19.50	1.236	0.868	22.2
Bottom side	RMC	1513/1752.6	1:1	0.600	-0.20	18.55	19.50	1.245	0.747	22.2
Bottom side with Battery2	RMC	1412/1732.4	1:1	0.659	-0.01	18.52	19.50	1.253	0.826	22.2
Test position	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(W/kg)	Liquid Temp
Product Specific 10-g SAR Sensor on(Separate 0mm)										
Back side	RMC	1412/1732.4	1:1	1.790	0.04	22.25	23.00	1.189	2.127	22.2
Back side	RMC	1312/1712.4	1:1	1.750	0.01	22.27	23.00	1.183	2.070	22.2
Back side	RMC	1513/1752.6	1:1	1.840	0.03	22.24	23.00	1.191	2.192	22.2
Bottom side	RMC	1412/1732.4	1:1	1.250	0.17	22.25	23.00	1.189	1.486	22.2
Back side with Battery2	RMC	1513/1752.6	1:1	1.780	0.03	22.24	23.00	1.191	2.120	22.2
Product Specific 10-g SAR Sensor off(Separate 15mm)										
Back side	RMC	1412/1732.4	1:1	0.395	0.02	24.19	25.00	1.205	0.476	22.2
Bottom side	RMC	1412/1732.4	1:1	0.731	-0.11	24.19	25.00	1.205	0.881	22.2
ANT3 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.086	0.00	24.42	25.50	1.282	0.110	22.2
Left tilted	RMC	1412/1732.4	1:1	0.119	0.04	24.42	25.50	1.282	0.153	22.2
Right cheek	RMC	1412/1732.4	1:1	0.204	0.14	24.42	25.50	1.282	0.262	22.2
Right tilted	RMC	1412/1732.4	1:1	0.131	0.17	24.42	25.50	1.282	0.168	22.2
Right cheek with Battery2	RMC	1412/1732.4	1:1	0.201	0.01	24.42	25.50	1.282	0.258	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.061	0.15	24.42	25.50	1.282	0.078	22.2
Back side	RMC	1412/1732.4	1:1	0.229	0.18	24.42	25.50	1.282	0.294	22.2
Back side with Battery2	RMC	1412/1732.4	1:1	0.221	0.05	24.42	25.50	1.282	0.283	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.064	0.12	21.33	22.50	1.309	0.084	22.2
Back side	RMC	1412/1732.4	1:1	0.289	-0.05	21.33	22.50	1.309	0.378	22.2



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Left side	RMC	1412/1732.4	1:1	0.157	0.14	21.33	22.50	1.309	0.206	22.2
Top side	RMC	1412/1732.4	1:1	0.031	0.20	21.33	22.50	1.309	0.040	22.2
Back side with Battery2	RMC	1412/1732.4	1:1	0.216	0.19	21.33	22.50	1.309	0.283	22.2

Table 14: SAR of WCDMA Band IV



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8.3.5 SAR Result of WCDMA Band V

ANT0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.135	-0.05	24.33	25.00	1.167	0.158	22.1
Left tilted	RMC	4182/836.4	1:1	0.069	0.06	24.33	25.00	1.167	0.081	22.1
Right cheek	RMC	4182/836.4	1:1	0.191	0.18	24.33	25.00	1.167	0.223	22.1
Right tilted	RMC	4182/836.4	1:1	0.080	0.14	24.33	25.00	1.167	0.093	22.1
Right cheek with Battery2	RMC	4182/836.4	1:1	0.187	0.08	24.33	25.00	1.167	0.218	22.1
Body Worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.202	-0.07	24.33	25.00	1.167	0.236	22.1
Back side	RMC	4182/836.4	1:1	0.213	0.03	24.33	25.00	1.167	0.249	22.1
Back side with Battery2	RMC	4182/836.4	1:1	0.209	-0.05	24.33	25.00	1.167	0.244	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.166	0.01	24.33	25.00	1.167	0.194	22.1
Back side	RMC	4182/836.4	1:1	0.243	0.02	24.33	25.00	1.167	0.284	22.1
Left side	RMC	4182/836.4	1:1	0.127	-0.06	24.33	25.00	1.167	0.148	22.1
Right side	RMC	4182/836.4	1:1	0.218	-0.06	24.33	25.00	1.167	0.254	22.1
Bottom side	RMC	4182/836.4	1:1	0.206	-0.06	24.33	25.00	1.167	0.240	22.1
Back side with Battery2	RMC	4182/836.4	1:1	0.238	0.01	24.33	25.00	1.167	0.278	22.1
ANT4 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.455	0.03	20.29	22.00	1.483	0.675	22.1
Left tilted	RMC	4182/836.4	1:1	0.407	0.01	20.29	22.00	1.483	0.603	22.1
Right cheek	RMC	4182/836.4	1:1	0.551	0.08	20.29	22.00	1.483	0.817	22.1
Right cheek	RMC	4132/826.4	1:1	0.577	0.12	20.37	22.00	1.455	0.840	22.1
Right cheek	RMC	4233/846.6	1:1	0.505	0.13	20.25	22.00	1.496	0.756	22.1
Right tilted	RMC	4182/836.4	1:1	0.488	0.00	20.29	22.00	1.483	0.723	22.1
Right cheek with Battery2	RMC	4132/826.4	1:1	0.565	0.10	20.37	22.00	1.455	0.822	22.1
Body Worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.175	-0.03	23.36	25.00	1.459	0.255	22.1
Back side	RMC	4182/836.4	1:1	0.208	0.00	23.36	25.00	1.459	0.303	22.1
Back side with Battery2	RMC	4182/836.4	1:1	0.202	0.01	23.36	25.00	1.459	0.295	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.127	-0.20	20.29	22.00	1.483	0.188	22.1
Back side	RMC	4182/836.4	1:1	0.246	0.05	20.29	22.00	1.483	0.365	22.1
Left side	RMC	4182/836.4	1:1	0.093	-0.15	20.29	22.00	1.483	0.138	22.1
Top side	RMC	4182/836.4	1:1	0.139	0.12	20.29	22.00	1.483	0.206	22.1
Back side with Battery2	RMC	4182/836.4	1:1	0.236	0.02	20.29	22.00	1.483	0.350	22.1

Table 15: SAR of WCDMA Band V



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8.3.6 SAR Result of LTE Band 2

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	18900/1880	1:1	0.177	-0.11	24.22	25.00	1.197	0.212	22.3
Left tilted	20	QPSK 1RB_50	18900/1880	1:1	0.137	-0.15	24.22	25.00	1.197	0.164	22.3
Right cheek	20	QPSK 1RB_50	18900/1880	1:1	0.173	-0.04	24.22	25.00	1.197	0.207	22.3
Right tilted	20	QPSK 1RB_50	18900/1880	1:1	0.104	0.11	24.22	25.00	1.197	0.124	22.3
Left cheek with Battery2	20	QPSK 1RB_50	18900/1880	1:1	0.173	-0.01	24.22	25.00	1.197	0.207	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	18900/1880	1:1	0.148	0.08	23.30	24.00	1.175	0.174	22.3
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.109	-0.16	23.30	24.00	1.175	0.128	22.3
Right cheek	20	QPSK 50RB_0	18900/1880	1:1	0.114	0.12	23.30	24.00	1.175	0.134	22.3
Right tilted	20	QPSK 50RB_0	18900/1880	1:1	0.087	0.07	23.30	24.00	1.175	0.103	22.3
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	18900/1880	1:1	0.321	0.20	24.22	25.00	1.197	0.384	22.3
Back side	20	QPSK 1RB_50	18900/1880	1:1	0.502	0.12	24.22	25.00	1.197	0.601	22.3
Back side with Battery2	20	QPSK 1RB_50	18900/1880	1:1	0.491	0.02	24.22	25.00	1.197	0.588	22.3
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.260	0.10	23.30	24.00	1.175	0.305	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.397	0.17	23.30	24.00	1.175	0.466	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	18900/1880	1:1	0.200	0.17	19.80	20.50	1.175	0.235	22.3
Back side	20	QPSK 1RB_50	18900/1880	1:1	0.323	0.14	19.80	20.50	1.175	0.379	22.3
Left side	20	QPSK 1RB_50	18900/1880	1:1	0.082	0.00	19.80	20.50	1.175	0.096	22.3
Right side	20	QPSK 1RB_50	18900/1880	1:1	0.045	0.09	19.80	20.50	1.175	0.053	22.3
Bottom side	20	QPSK 1RB_50	18900/1880	1:1	0.531	-0.07	19.80	20.50	1.175	0.624	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.187	-0.19	19.90	20.50	1.148	0.215	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.253	0.00	19.90	20.50	1.148	0.290	22.3
Left side	20	QPSK 50RB_0	18900/1880	1:1	0.077	0.05	19.90	20.50	1.148	0.088	22.3
Right side	20	QPSK 50RB_0	18900/1880	1:1	0.044	0.04	19.90	20.50	1.148	0.051	22.3
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	0.563	0.11	19.90	20.50	1.148	0.646	22.3
Bottom side with Battery2	20	QPSK 50RB_0	18900/1880	1:1	0.550	0.01	19.90	20.50	1.148	0.631	22.3
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(W/kg)	Liquid Temp.
Product Specific 10-g SAR(Separate 0mm 1RB)											
Bottom side	20	QPSK 1RB_50	18900/1880	1:1	2.120	0.08	24.22	25.00	1.197	2.537	22.3
Bottom side	20	QPSK 1RB_50	18700/1860	1:1	2.110	-0.14	24.21	25.00	1.199	2.531	22.3
Bottom side	20	QPSK 1RB_50	19100/1900	1:1	2.110	-0.13	24.14	25.00	1.219	2.572	22.3
Bottom side with Battery2	20	QPSK 1RB_50	19100/1900	1:1	2.060	-0.03	24.14	25.00	1.219	2.511	22.3
Product Specific 10-g SAR(Separate 0mm 50%RB)											
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	1.680	0.16	23.30	24.00	1.175	1.974	22.3
Product Specific 10-g SAR(Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	19100/1900	1:1	1.790	0.15	23.24	24.00	1.191	2.132	22.3
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	18900/1880	1:1	0.249	0.16	24.43	25.50	1.279	0.319	22.3
Left tilted	20	QPSK 1RB_50	18900/1880	1:1	0.219	0.19	24.43	25.50	1.279	0.280	22.3



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Right cheek	20	QPSK 1RB_50	18900/1880	1:1	0.404	0.17	24.43	25.50	1.279	0.517	22.3
Right tilted	20	QPSK 1RB_50	18900/1880	1:1	0.152	-0.19	24.43	25.50	1.279	0.194	22.3
Right cheek with Battery2	20	QPSK 1RB_50	18900/1880	1:1	0.395	0.07	24.43	25.50	1.279	0.505	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	18900/1880	1:1	0.222	0.07	23.56	24.50	1.242	0.276	22.3
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.222	0.18	23.56	24.50	1.242	0.276	22.3
Right cheek	20	QPSK 50RB_0	18900/1880	1:1	0.402	0.05	23.56	24.50	1.242	0.499	22.3
Right tilted	20	QPSK 50RB_0	18900/1880	1:1	0.182	-0.06	23.56	24.50	1.242	0.226	22.3
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	18900/1880	1:1	0.082	0.02	24.43	25.50	1.279	0.105	22.3
Back side	20	QPSK 1RB_50	18900/1880	1:1	0.213	0.01	24.43	25.50	1.279	0.273	22.3
Back side with Battery2	20	QPSK 1RB_50	18900/1880	1:1	0.209	0.05	24.43	25.50	1.279	0.267	22.3
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.062	-0.04	23.56	24.50	1.242	0.077	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.188	0.13	23.56	24.50	1.242	0.233	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	18900/1880	1:1	0.084	-0.08	22.89	24.00	1.291	0.108	22.3
Back side	20	QPSK 1RB_50	18900/1880	1:1	0.413	-0.18	22.89	24.00	1.291	0.533	22.3
Left side	20	QPSK 1RB_50	18900/1880	1:1	0.261	0.14	22.89	24.00	1.291	0.337	22.3
Top side	20	QPSK 1RB_50	18900/1880	1:1	0.028	0.13	22.89	24.00	1.291	0.036	22.3
Back side with Battery2	20	QPSK 1RB_50	18900/1880	1:1	0.404	0.07	22.89	24.00	1.291	0.522	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.110	-0.14	23.02	24.00	1.253	0.138	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.384	0.18	23.02	24.00	1.253	0.481	22.3
Left side	20	QPSK 50RB_0	18900/1880	1:1	0.281	0.04	23.02	24.00	1.253	0.352	22.3
Top side	20	QPSK 50RB_0	18900/1880	1:1	0.054	0.09	23.02	24.00	1.253	0.068	22.3

Table 16: SAR of LTE Band 2



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8.3.7 SAR Result of LTE Band 4

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.108	0.10	24.36	25.00	1.159	0.125	22.2
Left tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.080	0.16	24.36	25.00	1.159	0.092	22.2
Right cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.128	0.08	24.36	25.00	1.159	0.148	22.2
Right tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.055	0.02	24.36	25.00	1.159	0.064	22.2
Right cheek with Battery2	20	QPSK 1RB_50	20175/1732.5	1:1	0.121	-0.03	24.36	25.00	1.159	0.140	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.077	-0.01	23.23	24.00	1.194	0.092	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.064	0.03	23.23	24.00	1.194	0.077	22.2
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.103	0.01	23.23	24.00	1.194	0.123	22.2
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.024	0.08	23.23	24.00	1.194	0.029	22.2
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.277	0.06	24.36	25.00	1.159	0.321	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.682	0.12	24.36	25.00	1.159	0.790	22.2
Back side with Battery2	20	QPSK 1RB_50	20175/1732.5	1:1	0.660	0.03	24.36	25.00	1.186	0.783	22.2
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.394	-0.04	23.23	24.00	1.194	0.470	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.566	0.19	23.23	24.00	1.194	0.676	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.244	0.06	19.16	20.00	1.213	0.296	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.303	0.19	19.16	20.00	1.213	0.368	22.2
Left side	20	QPSK 1RB_50	20175/1732.5	1:1	0.066	0.09	19.16	20.00	1.213	0.080	22.2
Right side	20	QPSK 1RB_50	20175/1732.5	1:1	0.029	-0.15	19.16	20.00	1.213	0.035	22.2
Bottom side	20	QPSK 1RB_50	20175/1732.5	1:1	0.643	0.06	19.16	20.00	1.213	0.780	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.247	0.08	19.23	20.00	1.194	0.295	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.313	-0.12	19.23	20.00	1.194	0.374	22.2
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.064	0.04	19.23	20.00	1.194	0.076	22.2
Right side	20	QPSK 50RB_0	20175/1732.5	1:1	0.034	0.13	19.23	20.00	1.194	0.041	22.2
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.668	0.08	19.23	20.00	1.194	0.798	22.2
Bottom side with Battery2	20	QPSK 50RB_0	20175/1732.5	1:1	0.654	-0.03	19.23	20.00	1.194	0.788	22.2
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(W/kg)	Liquid Temp.
Product Specific 10-g SAR Sensor on(Separate 0mm 1RB)											
Bottom side	20	QPSK 1RB_50	20175/1732.5	1:1	1.780	-0.16	23.34	24.00	1.164	2.072	22.2
Bottom side	20	QPSK 1RB_50	20300/1745	1:1	1.750	-0.01	23.33	24.00	1.167	2.042	22.2
Bottom side	20	QPSK 1RB_50	20050/1720	1:1	1.840	-0.01	23.40	24.00	1.148	2.113	22.2
Product Specific 10-g SAR Sensor on(Separate 0mm 50%RB)											
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	1.870	0.19	23.41	24.00	1.146	2.142	22.2
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	1.810	0.00	23.37	24.00	1.156	2.093	22.2
Bottom side	20	QPSK 50RB_0	20050/1720	1:1	1.880	0.00	23.37	24.00	1.156	2.173	22.2
Bottom side with Battery2	20	QPSK 50RB_0	20050/1720	1:1	1.810	-0.05	23.37	24.00	1.156	2.093	22.2
Product Specific 10-g SAR Sensor on(Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	20175/1732.5	1:1	1.780	0.02	23.37	24.00	1.156	2.058	22.2
Product Specific 10-g SAR Sensor off(Separate 15mm 1RB)											
Bottom side	20	QPSK 1RB_50	20175/1732.5	1:1	0.534	0.01	24.36	25.00	1.159	0.619	22.2
Product Specific 10-g SAR Sensor off(Separate 15mm 50%RB)											



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Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.558	0.01	23.23	24.00	1.194	0.666	22.2
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.412	0.12	24.58	25.50	1.236	0.509	22.2
Left tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.412	0.06	24.58	25.50	1.236	0.509	22.2
Right cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.448	0.15	24.58	25.50	1.236	0.554	22.2
Right tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.241	0.18	24.58	25.50	1.236	0.298	22.2
Right cheek with Battery2	20	QPSK 1RB_50	20175/1732.5	1:1	0.441	0.09	24.58	25.50	1.236	0.545	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.415	0.12	23.56	24.50	1.242	0.515	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.413	0.06	23.56	24.50	1.242	0.513	22.2
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.443	0.19	23.56	24.50	1.242	0.550	22.2
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.188	-0.04	23.56	24.50	1.242	0.233	22.2
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.098	0.07	24.58	25.50	1.236	0.121	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.266	-0.07	24.58	25.50	1.236	0.329	22.2
Back side with Battery2	20	QPSK 1RB_50	20175/1732.5	1:1	0.262	-0.05	24.58	25.50	1.236	0.324	22.2
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.077	0.05	23.56	24.50	1.242	0.096	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.264	0.02	23.56	24.50	1.242	0.328	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.096	0.17	23.51	24.50	1.256	0.120	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.444	0.19	23.51	24.50	1.256	0.558	22.2
Left side	20	QPSK 1RB_50	20175/1732.5	1:1	0.347	0.19	23.51	24.50	1.256	0.436	22.2
Top side	20	QPSK 1RB_50	20175/1732.5	1:1	0.047	-0.07	23.51	24.50	1.256	0.059	22.2
Back side with Battery2	20	QPSK 1RB_50	20175/1732.5	1:1	0.431	-0.04	23.51	24.50	1.256	0.541	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.083	0.1	23.56	24.50	1.242	0.103	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.299	0.13	23.56	24.50	1.242	0.371	22.2
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.346	0.18	23.56	24.50	1.242	0.430	22.2
Top side	20	QPSK 50RB_0	20175/1732.5	1:1	0.044	0.12	23.56	24.50	1.242	0.055	22.2

Table 17: SAR of LTE Band 4



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8.3.8 SAR Result of LTE Band 5

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	20525/836.5	1:1	0.130	0.16	23.92	25.00	1.282	0.167	22.1
Left tilted	10	QPSK 1RB_25	20525/836.5	1:1	0.068	-0.16	23.92	25.00	1.282	0.088	22.1
Right cheek	10	QPSK 1RB_25	20525/836.5	1:1	0.189	-0.05	23.92	25.00	1.282	0.242	22.1
Right tilted	10	QPSK 1RB_25	20525/836.5	1:1	0.081	0.09	23.92	25.00	1.282	0.104	22.1
Right cheek with Battery2	10	QPSK 1RB_25	20525/836.5	1:1	0.182	-0.02	23.92	25.00	1.282	0.233	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	20525/836.5	1:1	0.093	0.15	22.93	24.00	1.279	0.119	22.1
Left tilted	10	QPSK 25RB_0	20525/836.5	1:1	0.052	-0.04	22.93	24.00	1.279	0.066	22.1
Right cheek	10	QPSK 25RB_0	20525/836.5	1:1	0.126	0.13	22.93	24.00	1.279	0.161	22.1
Right tilted	10	QPSK 25RB_0	20525/836.5	1:1	0.058	-0.19	22.93	24.00	1.279	0.074	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_25	20525/836.5	1:1	0.178	-0.02	23.92	25.00	1.282	0.228	22.1
Back side	10	QPSK 1RB_25	20525/836.5	1:1	0.193	0.01	23.92	25.00	1.282	0.247	22.1
Back side with Battery2	10	QPSK 1RB_25	20525/836.5	1:1	0.189	0.04	23.92	25.00	1.282	0.242	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_0	20525/836.5	1:1	0.133	0.00	22.93	24.00	1.279	0.170	22.1
Back side	10	QPSK 25RB_0	20525/836.5	1:1	0.144	0.06	22.93	24.00	1.279	0.184	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	20525/836.5	1:1	0.182	0.01	23.92	25.00	1.282	0.233	22.1
Back side	10	QPSK 1RB_25	20525/836.5	1:1	0.256	-0.04	23.92	25.00	1.282	0.328	22.1
Left side	10	QPSK 1RB_25	20525/836.5	1:1	0.049	0.00	23.92	25.00	1.282	0.062	22.1
Right side	10	QPSK 1RB_25	20525/836.5	1:1	0.252	-0.01	23.92	25.00	1.282	0.323	22.1
Bottom side	10	QPSK 1RB_25	20525/836.5	1:1	0.200	-0.14	23.92	25.00	1.282	0.256	22.1
Back side with Battery2	10	QPSK 1RB_25	20525/836.5	1:1	0.247	-0.01	23.92	25.00	1.282	0.317	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	20525/836.5	1:1	0.138	0.03	22.93	24.00	1.279	0.177	22.1
Back side	10	QPSK 25RB_0	20525/836.5	1:1	0.195	0.07	22.93	24.00	1.279	0.249	22.1
Left side	10	QPSK 25RB_0	20525/836.5	1:1	0.076	-0.01	22.93	24.00	1.279	0.097	22.1
Right side	10	QPSK 25RB_0	20525/836.5	1:1	0.193	-0.02	22.93	24.00	1.279	0.247	22.1
Bottom side	10	QPSK 25RB_0	20525/836.5	1:1	0.169	-0.06	22.93	24.00	1.279	0.216	22.1
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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	20525/836.5	1:1	0.337	0.06	21.01	22.50	1.409	0.475	22.1
Left tilted	10	QPSK 1RB_25	20525/836.5	1:1	0.351	0.03	21.01	22.50	1.409	0.495	22.1
Right cheek	10	QPSK 1RB_25	20525/836.5	1:1	0.598	-0.01	21.01	22.50	1.409	0.843	22.1
Right tilted	10	QPSK 1RB_25	20525/836.5	1:1	0.394	0.00	21.01	22.50	1.409	0.555	22.1
Right cheek	10	QPSK 1RB_25	20450/829	1:1	0.535	0.01	20.98	22.50	1.419	0.759	22.1
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.506	-0.04	20.89	22.50	1.449	0.733	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	20525/836.5	1:1	0.352	0.08	21.02	22.50	1.406	0.495	22.1
Left tilted	10	QPSK 25RB_0	20525/836.5	1:1	0.358	0.01	21.02	22.50	1.406	0.503	22.1
Right cheek	10	QPSK 25RB_0	20525/836.5	1:1	0.616	0.09	21.02	22.50	1.406	0.866	22.1
Right tilted	10	QPSK 25RB_0	20525/836.5	1:1	0.409	-0.04	21.02	22.50	1.406	0.575	22.1



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Right cheek	10	QPSK 25RB_0	20450/829	1:1	0.587	-0.30	21.00	22.50	1.413	0.829	22.1
Right cheek	10	QPSK 25RB_0	20600/844	1:1	0.591	0.01	20.92	22.50	1.439	0.850	22.1
Right cheek with Battery2	10	QPSK 25RB_0	20525/836.5	1:1	0.606	0.05	21.02	22.50	1.406	0.852	22.1
Head Test data(100%RB)											
Right cheek	10	QPSK 50RB_0	20450/829	1:1	0.567	-0.03	21.01	22.50	1.409	0.799	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_25	20525/836.5	1:1	0.078	-0.03	23.50	25.00	1.413	0.111	22.1
Back side	10	QPSK 1RB_25	20525/836.5	1:1	0.146	0.18	23.50	25.00	1.413	0.206	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_0	20525/836.5	1:1	0.078	0.03	22.49	24.00	1.416	0.110	22.1
Back side	10	QPSK 25RB_0	20525/836.5	1:1	0.149	0.05	22.49	24.00	1.416	0.211	22.1
Back side with Battery2	10	QPSK 25RB_0	20525/836.5	1:1	0.147	0.02	22.49	24.00	1.416	0.208	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	20525/836.5	1:1	0.134	0.03	21.01	22.50	1.409	0.189	22.1
Back side	10	QPSK 1RB_25	20525/836.5	1:1	0.209	0.04	21.01	22.50	1.409	0.295	22.1
Left side	10	QPSK 1RB_25	20525/836.5	1:1	0.101	-0.01	21.01	22.50	1.409	0.142	22.1
Top side	10	QPSK 1RB_25	20525/836.5	1:1	0.111	0.00	21.01	22.50	1.409	0.156	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	20525/836.5	1:1	0.134	0.01	21.02	22.50	1.406	0.188	22.1
Back side	10	QPSK 25RB_0	20525/836.5	1:1	0.213	0.02	21.02	22.50	1.406	0.299	22.1
Left side	10	QPSK 25RB_0	20525/836.5	1:1	0.099	-0.03	21.02	22.50	1.406	0.139	22.1
Top side	10	QPSK 25RB_0	20525/836.5	1:1	0.112	-0.02	21.02	22.50	1.406	0.157	22.1
Back side with Battery2	10	QPSK 25RB_0	20525/836.5	1:1	0.201	0.01	21.02	22.50	1.406	0.283	22.1

Table 18: SAR of LTE Band 5



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8.3.9 SAR Result of LTE Band 7

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	21350/2560	1:1	0.283	0.15	24.42	25.00	1.143	0.323	22.1
Left cheek	20	PCC 1RB_0	21350/2560	1:1	0.256	0.02	24.21	25.00	1.199	0.307	22.1
		SCC 1RB_99	21152/2540								
Left tilted	20	QPSK 1RB_99	21350/2560	1:1	0.086	0.01	24.42	25.00	1.143	0.098	22.1
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.151	0.14	24.42	25.00	1.143	0.173	22.1
Right tilted	20	QPSK 1RB_99	21350/2560	1:1	0.115	0.10	24.42	25.00	1.143	0.131	22.1
Left cheek with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.275	0.15	24.42	25.00	1.143	0.314	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	21350/2560	1:1	0.225	0.06	23.41	24.00	1.146	0.258	22.1
Left tilted	20	QPSK 50RB_0	21350/2560	1:1	0.080	0.01	23.41	24.00	1.146	0.092	22.1
Right cheek	20	QPSK 50RB_0	21350/2560	1:1	0.126	0.10	23.41	24.00	1.146	0.144	22.1
Right tilted	20	QPSK 50RB_0	21350/2560	1:1	0.099	-0.01	23.41	24.00	1.146	0.113	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.323	0.11	24.42	25.00	1.143	0.369	22.1
Front side	20	PCC 1RB_0	21350/2560	1:1	0.285	0.05	24.21	25.00	1.199	0.342	22.1
		SCC 1RB_99	21152/2540								
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.303	0.02	24.42	25.00	1.143	0.346	22.1
Front side with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.318	0.01	24.42	25.00	1.143	0.363	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.280	0.01	23.41	24.00	1.146	0.321	22.1
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.274	0.03	23.41	24.00	1.146	0.314	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.272	0.06	20.59	21.00	1.099	0.299	22.1
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.263	-0.09	20.59	21.00	1.099	0.289	22.1
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.195	0.09	20.59	21.00	1.099	0.214	22.1
Right side	20	QPSK 1RB_99	21350/2560	1:1	0.074	0.15	20.59	21.00	1.099	0.082	22.1
Bottom side	20	QPSK 1RB_99	21350/2560	1:1	0.379	0.05	20.59	21.00	1.099	0.417	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.286	0.04	20.36	21.00	1.159	0.331	22.1
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.285	0.11	20.36	21.00	1.159	0.330	22.1
Left side	20	QPSK 50RB_0	21350/2560	1:1	0.196	0.08	20.36	21.00	1.159	0.227	22.1
Right side	20	QPSK 50RB_0	21350/2560	1:1	0.078	-0.16	20.36	21.00	1.159	0.091	22.1
Bottom side	20	QPSK 50RB_0	21350/2560	1:1	0.460	0.07	20.36	21.00	1.159	0.533	22.1
Bottom side	20	PCC 1RB_0	21350/2560	1:1	0.412	0.06	20.24	21.00	1.191	0.491	22.1
		SCC 1RB_99	21152/2540								
Bottom side with Battery2	20	QPSK 50RB_0	21350/2560	1:1	0.374	0.05	20.36	21.00	1.159	0.433	22.1
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	21350/2560	1:1	0.162	0.16	24.30	25.00	1.175	0.190	22.1
Left tilted	20	QPSK 1RB_99	21350/2560	1:1	0.109	-0.04	24.30	25.00	1.175	0.128	22.1
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.558	0.17	24.30	25.00	1.175	0.656	22.1
Right cheek	20	PCC 1RB_0	21350/2560	1:1	0.535	0.04	24.25	25.00	1.189	0.636	22.1
		SCC 1RB_99	21152/2540								
Right tilted	20	QPSK 1RB_99	21350/2560	1:1	0.204	0.15	24.30	25.00	1.175	0.240	22.1
Right cheek with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.549	0.19	24.30	25.00	1.175	0.645	22.1



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Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	21350/2560	1:1	0.133	-0.13	23.31	24.00	1.172	0.156	22.1
Left tilted	20	QPSK 50RB_0	21350/2560	1:1	0.100	0.17	23.31	24.00	1.172	0.117	22.1
Right cheek	20	QPSK 50RB_0	21350/2560	1:1	0.466	0.13	23.31	24.00	1.172	0.546	22.1
Right tilted	20	QPSK 50RB_0	21350/2560	1:1	0.174	-0.15	23.31	24.00	1.172	0.204	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.125	0.00	24.30	25.00	1.175	0.147	22.1
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.894	-0.07	24.30	25.00	1.175	1.050	22.1
Back side	20	PCC 1RB_0	21350/2560	1:1	0.865	0.04	24.25	25.00	1.189	1.028	22.1
		SCC 1RB_99	21152/2540								
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.705	-0.16	24.09	25.00	1.233	0.869	22.1
Back side	20	QPSK 1RB_99	21100/2535	1:1	0.823	0.00	24.18	25.00	1.208	0.994	22.1
Back side-Repeat	20	QPSK 1RB_99	21350/2560	1:1	0.856	-0.05	24.30	25.00	1.175	1.006	22.1
Back side with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.885	-0.05	24.30	25.00	1.175	1.040	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.106	0.00	23.31	24.00	1.172	0.124	22.1
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.812	0.01	23.31	24.00	1.172	0.952	22.1
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.652	0.04	23.13	24.00	1.222	0.797	22.1
Back side	20	QPSK 50RB_25	21100/2535	1:1	0.633	0.19	23.17	24.00	1.211	0.766	22.1
Body Worn Test data(Separate 15mm 100%RB)											
Back side	20	QPSK 100RB_0	21350/2560	1:1	0.718	0.02	23.17	24.00	1.211	0.869	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.061	0.04	17.55	18.50	1.245	0.076	22.1
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.617	0.08	17.55	18.50	1.245	0.768	22.1
Back side	20	PCC 1RB_0	21350/2560	1:1	0.587	0.04	17.42	18.50	1.282	0.753	22.1
		SCC 1RB_99	21152/2540								
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.291	0.01	17.55	18.50	1.245	0.362	22.1
Top side	20	QPSK 1RB_99	21350/2560	1:1	0.046	0.20	17.55	18.50	1.245	0.057	22.1
Back side with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.611	-0.04	17.55	18.50	1.245	0.760	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.058	0.04	17.68	18.50	1.208	0.070	22.1
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.616	0.17	17.68	18.50	1.208	0.744	22.1
Left side	20	QPSK 50RB_0	21350/2560	1:1	0.255	0.14	17.68	18.50	1.208	0.308	22.1
Top side	20	QPSK 50RB_0	21350/2560	1:1	0.045	0.2	17.68	18.50	1.208	0.054	22.1
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(W/kg)	Liquid Temp.
Product Specific 10-g SAR Sensor on(Separate 0mm 1RB)											
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.464	-0.14	17.55	18.50	1.245	0.577	22.1
Back side	20	PCC 1RB_0	21350/2560	1:1	0.435	0.04	17.42	18.50	1.282	0.558	22.1
		SCC 1RB_99	21152/2540								
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.441	0.01	17.55	18.50	1.245	0.549	22.1
Back side with Battery2	20	QPSK 1RB_99	21350/2560	1:1	0.440	-0.14	17.55	18.50	1.245	0.548	22.1
Product Specific 10-g SAR Sensor on(Separate 0mm 50%RB)											
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.450	0.11	17.68	18.50	1.208	0.544	22.1
Left side	20	QPSK 50RB_0	21350/2560	1:1	0.433	0.13	17.68	18.50	1.208	0.523	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 1RB)											
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.389	-0.19	24.30	25.00	1.175	0.457	22.1
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.199	0.01	24.30	25.00	1.175	0.234	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 50%RB)											
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.383	-0.06	23.31	24.00	1.172	0.449	22.1
Left side	20	QPSK 50RB_0	21350/2560	1:1	0.188	0.01	23.31	24.00	1.172	0.220	22.1

Table 19: SAR of LTE Band 7



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	21350/2560	0.894	0.856	1.044	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 performed 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 ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed 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



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8.3.10 SAR Result of LTE Band 26

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.091	-0.04	24.08	25.00	1.236	0.112	22.1
Left tilted	15	QPSK 1RB_38	26865/831.5	1:1	0.046	0.04	24.08	25.00	1.236	0.056	22.1
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.133	0.14	24.08	25.00	1.236	0.164	22.1
Right tilted	15	QPSK 1RB_38	26865/831.5	1:1	0.059	-0.13	24.08	25.00	1.236	0.073	22.1
Right cheek with Battery2	15	QPSK 1RB_38	26865/831.5	1:1	0.130	0.05	24.08	25.00	1.236	0.161	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.063	0.1	22.82	24.00	1.312	0.083	22.1
Left tilted	15	QPSK 36RB_0	26865/831.5	1:1	0.033	0.13	22.82	24.00	1.312	0.043	22.1
Right cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.102	-0.04	22.82	24.00	1.312	0.134	22.1
Right tilted	15	QPSK 36RB_0	26865/831.5	1:1	0.042	0.02	22.82	24.00	1.312	0.055	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_38	26865/831.5	1:1	0.112	0.03	24.08	25.00	1.236	0.138	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.195	0.04	24.08	25.00	1.236	0.241	22.1
Back side with Battery2	15	QPSK 1RB_38	26865/831.5	1:1	0.192	0.02	24.08	25.00	1.236	0.237	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.081	-0.02	22.82	24.00	1.312	0.106	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.144	0.00	22.82	24.00	1.312	0.189	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_38	26865/831.5	1:1	0.115	0.02	24.08	25.00	1.236	0.142	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.157	-0.17	24.08	25.00	1.236	0.194	22.1
Left side	15	QPSK 1RB_38	26865/831.5	1:1	0.084	-0.04	24.08	25.00	1.236	0.104	22.1
Right side	15	QPSK 1RB_38	26865/831.5	1:1	0.152	-0.01	24.08	25.00	1.236	0.188	22.1
Bottom side	15	QPSK 1RB_38	26865/831.5	1:1	0.144	-0.12	24.08	25.00	1.236	0.178	22.1
Back side with Battery2	15	QPSK 1RB_38	26865/831.5	1:1	0.152	0.03	24.08	25.00	1.236	0.188	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.085	0.01	22.82	24.00	1.312	0.112	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.129	0.00	22.82	24.00	1.312	0.169	22.1
Left side	15	QPSK 36RB_0	26865/831.5	1:1	0.060	0.00	22.82	24.00	1.312	0.078	22.1
Right side	15	QPSK 36RB_0	26865/831.5	1:1	0.108	0.00	22.82	24.00	1.312	0.142	22.1
Bottom side	15	QPSK 36RB_0	26865/831.5	1:1	0.102	-0.11	22.82	24.00	1.312	0.134	22.1
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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.548	0.06	21.42	23.00	1.439	0.788	22.1
Left tilted	15	QPSK 1RB_38	26865/831.5	1:1	0.484	0.11	21.42	23.00	1.439	0.696	22.1
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.703	0.00	21.42	23.00	1.439	1.011	22.1
Right tilted	15	QPSK 1RB_38	26865/831.5	1:1	0.583	0.07	21.42	23.00	1.439	0.839	22.1
Right cheek	15	QPSK 1RB_74	26765/821.5	1:1	0.684	-0.06	21.39	23.00	1.449	0.991	22.1
Right cheek	15	QPSK 1RB_74	26965/841.5	1:1	0.579	0.04	21.13	23.00	1.538	0.891	22.1
Right tilted	15	QPSK 1RB_74	26765/821.5	1:1	0.592	-0.01	21.39	23.00	1.449	0.858	22.1
Right tilted	15	QPSK 1RB_74	26965/841.5	1:1	0.608	0.03	21.13	23.00	1.538	0.935	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.543	-0.01	21.40	23.00	1.445	0.785	22.1
Left tilted	15	QPSK 36RB_0	26865/831.5	1:1	0.477	0.03	21.40	23.00	1.445	0.689	22.1



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Right cheek	15	QPSK 36RB_0	26865/831.5	1:1	0.701	-0.02	21.40	23.00	1.445	1.013	22.1
Right tilted	15	QPSK 36RB_0	26865/831.5	1:1	0.578	0.06	21.40	23.00	1.445	0.835	22.1
Right cheek	15	QPSK 36RB_39	26765/821.5	1:1	0.691	0.00	21.30	23.00	1.479	1.022	22.1
Right cheek	15	QPSK 36RB_18	26965/841.5	1:1	0.655	0.04	21.17	23.00	1.524	0.998	22.1
Right tilted	15	QPSK 36RB_39	26765/821.5	1:1	0.444	-0.01	21.30	23.00	1.479	0.657	22.1
Right tilted	15	QPSK 36RB_18	26965/841.5	1:1	0.465	0.01	21.17	23.00	1.524	0.709	22.1
Right cheek with Battery2	15	QPSK 36RB_39	26765/821.5	1:1	0.680	-0.03	21.30	23.00	1.479	1.006	22.1
Head Test data(100%RB)											
Right cheek	15	QPSK 75RB_0	26865/831.5	1:1	0.690	-0.07	21.4	23.00	1.445	0.997	22.1
Right tilted	15	QPSK 75RB_0	26865/831.5	1:1	0.449	0.01	21.4	23.00	1.445	0.649	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_38	26865/831.5	1:1	0.045	-0.06	23.74	25.00	1.337	0.059	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.046	0.04	23.74	25.00	1.337	0.061	22.1
Back side with Battery2	15	QPSK 1RB_38	26865/831.5	1:1	0.045	0.04	23.74	25.00	1.337	0.061	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.042	-0.04	22.46	24.00	1.426	0.060	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.044	0.07	22.46	24.00	1.426	0.063	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_38	26865/831.5	1:1	0.061	0.07	21.42	23.00	1.439	0.088	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.093	-0.02	21.42	23.00	1.439	0.134	22.1
Left side	15	QPSK 1RB_38	26865/831.5	1:1	0.032	0.04	21.42	23.00	1.439	0.046	22.1
Top side	15	QPSK 1RB_38	26865/831.5	1:1	0.056	0.06	21.42	23.00	1.439	0.080	22.1
Back side with Battery2	15	QPSK 1RB_38	26865/831.5	1:1	0.091	0.03	21.42	23.00	1.439	0.131	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_0	26865/831.5	1:1	0.060	0.00	21.40	23.00	1.445	0.086	22.1
Back side	15	QPSK 36RB_0	26865/831.5	1:1	0.090	0.06	21.40	23.00	1.445	0.130	22.1
Left side	15	QPSK 36RB_0	26865/831.5	1:1	0.048	0.00	21.40	23.00	1.445	0.069	22.1
Top side	15	QPSK 36RB_0	26865/831.5	1:1	0.055	0.08	21.40	23.00	1.445	0.080	22.1

Table 20: SAR of LTE Band 26



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8.3.11 SAR Result of LTE Band 38

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.210	-0.15	24.22	25.00	1.197	0.251	22.1
Left cheek	20	PCC 1RB_0	38150/2610	1:1.58	0.189	0.04	24.05	25.00	1.245	0.235	22.1
		SCC 1RB_99	37952/2590.2								
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.093	-0.17	24.22	25.00	1.197	0.112	22.1
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.119	-0.14	24.22	25.00	1.197	0.142	22.1
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.095	0.00	24.22	25.00	1.197	0.114	22.1
Left cheek with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.204	0.07	24.22	25.00	1.197	0.244	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.152	0.15	23.26	24.00	1.186	0.180	22.1
Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.071	-0.17	23.26	24.00	1.186	0.084	22.1
Right cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.092	-0.07	23.26	24.00	1.186	0.109	22.1
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.079	0.15	23.26	24.00	1.186	0.093	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.189	0.18	24.22	25.00	1.197	0.226	22.1
Front side	20	PCC 1RB_0	38150/2610	1:1.58	0.167	0.01	24.05	25.00	1.245	0.208	22.1
		SCC 1RB_99	37952/2590.2								
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.184	0.10	24.22	25.00	1.197	0.220	22.1
Front side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.183	0.10	24.22	25.00	1.197	0.219	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.158	0.07	23.26	24.00	1.186	0.187	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.142	0.17	23.26	24.00	1.186	0.168	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.415	0.01	24.22	25.00	1.197	0.497	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.389	0.03	24.22	25.00	1.197	0.466	22.1
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.294	0.04	24.22	25.00	1.197	0.352	22.1
Right side	20	QPSK 1RB_99	38150/2610	1:1.58	0.055	-0.14	24.22	25.00	1.197	0.065	22.1
Bottom side	20	QPSK 1RB_99	38150/2610	1:1.58	0.553	0.02	24.22	25.00	1.197	0.662	22.1
Bottom side	20	PCC 1RB_0	38150/2610	1:1.58	0.528	0.01	24.05	25.00	1.245	0.657	22.1
		SCC 1RB_99	37952/2590.2								
Bottom side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.538	-0.03	24.22	25.00	1.197	0.644	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.349	0.12	23.26	24.00	1.186	0.414	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.303	0.05	23.26	24.00	1.186	0.359	22.1
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.225	0.13	23.26	24.00	1.186	0.267	22.1
Right side	20	QPSK 50RB_0	38150/2610	1:1.58	0.056	0.07	23.26	24.00	1.186	0.066	22.1
Bottom side	20	QPSK 50RB_0	38150/2610	1:1.58	0.455	0.19	23.26	24.00	1.186	0.540	22.1
ANT2 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.110	0.08	22.67	23.50	1.211	0.133	22.1
Left cheek	20	PCC 1RB_0	38150/2610	1:1.58	0.098	0.04	22.41	23.50	1.285	0.126	22.1
		SCC 1RB_99	37952/2590.2								
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.034	0.10	22.67	23.50	1.211	0.041	22.1
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.067	-0.07	22.67	23.50	1.211	0.081	22.1
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.059	0.06	22.67	23.50	1.211	0.071	22.1
Left cheek with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.106	0.10	22.67	23.50	1.211	0.128	22.1



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Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.109	-0.09	21.70	22.50	1.202	0.131	22.1
Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.032	0.07	21.70	22.50	1.202	0.038	22.1
Right cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.066	-0.12	21.70	22.50	1.202	0.080	22.1
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.052	0.12	21.70	22.50	1.202	0.063	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.069	0.10	22.67	23.50	1.211	0.084	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.100	-0.01	22.67	23.50	1.211	0.121	22.1
Back side	20	PCC 1RB_0	38150/2610	1:1.58	0.087	0.01	22.41	23.50	1.285	0.112	22.1
		SCC 1RB_99	37952/2590.2								
Back side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.097	-0.01	22.67	23.50	1.211	0.117	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.067	-0.10	21.70	22.50	1.202	0.080	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.092	0.06	21.70	22.50	1.202	0.111	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.139	-0.16	22.67	23.50	1.211	0.168	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.214	0.03	22.67	23.50	1.211	0.259	22.1
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.276	0.17	22.67	23.50	1.211	0.334	22.1
Left side	20	PCC 1RB_0	38150/2610	1:1.58	0.255	0.05	22.41	23.50	1.285	0.328	22.1
		SCC 1RB_99	37952/2590.2								
Bottom side	20	QPSK 1RB_99	38150/2610	1:1.58	0.043	0.06	22.67	23.50	1.211	0.053	22.1
Left side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.266	0.05	22.67	23.50	1.211	0.322	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.127	0.10	21.70	22.50	1.202	0.153	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.189	0.14	21.70	22.50	1.202	0.227	22.1
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.255	0.17	21.70	22.50	1.202	0.307	22.1
Bottom side	20	QPSK 50RB_0	38150/2610	1:1.58	0.034	0.05	21.70	22.50	1.202	0.041	22.1
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.093	-0.05	24.21	25.00	1.199	0.112	22.1
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.047	-0.03	24.21	25.00	1.199	0.056	22.1
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.305	-0.15	24.21	25.00	1.199	0.366	22.1
Right cheek	20	PCC 1RB_0	38150/2610	1:1.58	0.285	0.04	24.06	25.00	1.242	0.354	22.1
		SCC 1RB_99	37952/2590.2								
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.082	0.00	24.21	25.00	1.199	0.098	22.1
Right cheek with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.296	-0.16	24.21	25.00	1.199	0.355	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.082	0.09	23.26	24.00	1.186	0.097	22.1
Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.040	0.08	23.26	24.00	1.186	0.047	22.1
Right cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.261	0.05	23.26	24.00	1.186	0.309	22.1
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.073	0.13	23.26	24.00	1.186	0.087	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.065	0.05	24.21	25.00	1.199	0.078	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.695	0.06	24.21	25.00	1.199	0.834	22.1
Back side	20	PCC 1RB_0	38150/2610	1:1.58	0.635	0.04	24.06	25.00	1.242	0.788	22.1
		SCC 1RB_99	37952/2590.2								
Back side	20	QPSK 1RB_50	37850/2580	1:1.58	0.618	0.01	24.19	25.00	1.205	0.745	22.1
Back side	20	QPSK 1RB_50	38000/2595	1:1.58	0.669	-0.19	24.20	25.00	1.202	0.804	22.1
Back side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.688	0.06	24.21	25.00	1.199	0.825	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.058	0.03	23.26	24.00	1.186	0.068	22.1



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Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.573	0.13	23.26	24.00	1.186	0.679	22.1
Body Worn Test data(Separate 15mm 100%RB)											
Back side	20	QPSK 100RB_0	38150/2610	1:1.58	0.571	0.11	23.18	24.00	1.208	0.690	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.036	0.00	19.03	20.00	1.250	0.045	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.551	-0.10	19.03	20.00	1.250	0.689	22.1
Back side	20	PCC 1RB_0	38150/2610	1:1.58	0.501	0.01	18.73	20.00	1.340	0.671	22.1
		SCC 1RB_99	37952/2590.2								
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.161	0.02	19.03	20.00	1.250	0.201	22.1
Top side	20	QPSK 1RB_99	38150/2610	1:1.58	0.020	0.09	19.03	20.00	1.250	0.026	22.1
Back side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.545	0.05	19.03	20.00	1.250	0.681	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.034	0.09	19.11	20.00	1.227	0.042	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.555	-0.17	19.11	20.00	1.227	0.681	22.1
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.173	0.02	19.11	20.00	1.227	0.212	22.1
Top side	20	QPSK 50RB_0	38150/2610	1:1.58	0.021	0.09	19.11	20.00	1.227	0.026	22.1
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(W/kg)	Liquid Temp.
Product Specific 10-g SAR Sensor on(Separate 0mm 1RB)											
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.738	-0.13	19.03	20.00	1.250	0.923	22.1
Product Specific 10-g SAR Sensor on(Separate 0mm 50%RB)											
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.837	-0.11	19.11	20.00	1.227	1.027	22.1
Back side	20	PCC 1RB_0	38150/2610	1:1.58	0.735	0.05	18.73	20.00	1.340	0.985	22.1
		SCC 1RB_99	37952/2590.2								
Back side with Battery2	20	QPSK 50RB_0	38150/2610	1:1.58	0.813	-0.11	19.11	20.00	1.227	0.998	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 1RB)											
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.309	0.11	24.21	25.00	1.199	0.371	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 50%RB)											
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.318	-0.06	23.26	24.00	1.186	0.377	22.1
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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.207	0.11	19.02	20.00	1.253	0.259	22.1
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.276	0.10	19.02	20.00	1.253	0.346	22.1
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.772	0.15	19.02	20.00	1.253	0.967	22.1
Right cheek	20	QPSK 1RB_99	37850/2580	1:1.58	0.555	0.18	19.01	20.00	1.256	0.697	22.1
Right cheek	20	QPSK 1RB_99	38000/2595	1:1.58	0.564	0.19	19.02	20.00	1.253	0.707	22.1
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.761	0.14	19.02	20.00	1.253	0.954	22.1
Right tilted	20	QPSK 1RB_99	37850/2580	1:1.58	0.454	0.20	19.01	20.00	1.256	0.570	22.1
Right tilted	20	QPSK 1RB_99	38000/2595	1:1.58	0.468	0.18	19.02	20.00	1.253	0.586	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.210	0.06	19.12	20.00	1.225	0.257	22.1
Left tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.284	-0.14	19.12	20.00	1.225	0.348	22.1
Right cheek	20	QPSK 50RB_0	38150/2610	1:1.58	0.792	0.1	19.12	20.00	1.225	0.970	22.1
Right cheek	20	PCC 1RB_0	38150/2610	1:1.58	0.755	0.06	19.01	20.00	1.256	0.948	22.1
		SCC 1RB_99	37952/2590.2								
Right cheek	20	QPSK 50RB_0	37850/2580	1:1.58	0.599	-0.05	19.11	20.00	1.227	0.735	22.1
Right cheek	20	QPSK 50RB_0	38000/2595	1:1.58	0.469	-0.05	19.10	20.00	1.230	0.577	22.1
Right tilted	20	QPSK 50RB_0	38150/2610	1:1.58	0.782	0.15	19.12	20.00	1.225	0.958	22.1
Right tilted	20	QPSK 50RB_0	37850/2580	1:1.58	0.492	0.08	19.11	20.00	1.227	0.604	22.1
Right tilted	20	QPSK 50RB_0	38000/2595	1:1.58	0.492	0.17	19.10	20.00	1.230	0.605	22.1



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Right cheek with Battery2	20	QPSK 50RB_0	38150/2610	1:1.58	0.772	0.04	19.12	20.00	1.225	0.946	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	38150/2610	1:1.58	0.782	0.10	19.08	20.00	1.236	0.967	22.1
Right tilted	20	QPSK 100RB_0	38150/2610	1:1.58	0.764	0.15	19.08	20.00	1.236	0.944	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.061	-0.19	23.17	24.00	1.211	0.073	22.1
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.060	-0.05	23.17	24.00	1.211	0.073	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.090	-0.15	22.16	23.00	1.213	0.109	22.1
Front side	20	PCC 1RB_0	38150/2610	1:1.58	0.081	0.01	23.04	24.00	1.247	0.101	22.1
		SCC 1RB_99	37952/2590.2								
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.074	0.15	22.16	23.00	1.213	0.089	22.1
Front side with Battery2	20	QPSK 50RB_0	38150/2610	1:1.58	0.089	0.11	22.16	23.00	1.213	0.108	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.141	0.14	19.02	20.00	1.253	0.177	22.1
Front side	20	PCC 1RB_0	38150/2610	1:1.58	0.121	0.03	19.01	20.00	1.256	0.152	22.1
		SCC 1RB_99	37952/2590.2								
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.104	-0.09	19.02	20.00	1.253	0.130	22.1
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.076	0.09	19.02	20.00	1.253	0.095	22.1
Top side	20	QPSK 1RB_99	38150/2610	1:1.58	0.117	-0.03	19.02	20.00	1.253	0.147	22.1
Front side with Battery2	20	QPSK 1RB_99	38150/2610	1:1.58	0.138	0.06	19.02	20.00	1.253	0.173	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.131	0.1	19.12	20.00	1.225	0.160	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.104	-0.2	19.12	20.00	1.225	0.127	22.1
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.074	0.11	19.12	20.00	1.225	0.091	22.1
Top side	20	QPSK 50RB_0	38150/2610	1:1.58	0.126	0.19	19.12	20.00	1.225	0.154	22.1

Table 21: SAR of LTE Band 38



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8.3.12 SAR Result of LTE Band 41

ANT0 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.208	0.09	24.29	25.00	1.178	0.245	22.1
Left cheek	20	PCC 1RB_99	40521/2583.1	1:1.58	0.198	0.01	24.26	25.00	1.186	0.235	22.1
		SCC 1RB_0	40719/2602.9								
Left tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.089	0.10	24.29	25.00	1.178	0.105	22.1
Right cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.119	0.03	24.29	25.00	1.178	0.140	22.1
Right tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.106	0.19	24.29	25.00	1.178	0.125	22.1
Left cheek with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.205	0.10	24.29	25.00	1.178	0.241	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.172	-0.07	23.34	24.00	1.164	0.200	22.1
Left tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.071	0.08	23.34	24.00	1.164	0.083	22.1
Right cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.100	0.11	23.34	24.00	1.164	0.116	22.1
Right tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.090	0.11	23.34	24.00	1.164	0.105	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.186	0.14	24.29	25.00	1.178	0.219	22.1
Front side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.175	0.06	24.26	25.00	1.186	0.208	22.1
		SCC 1RB_0	40719/2602.9								
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.178	-0.08	24.29	25.00	1.178	0.210	22.1
Front side with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.182	0.01	24.29	25.00	1.178	0.214	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.156	0.05	23.34	24.00	1.164	0.182	22.1
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.145	0.18	23.34	24.00	1.164	0.169	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.414	-0.11	24.29	25.00	1.178	0.488	22.1
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.371	0.14	24.29	25.00	1.178	0.437	22.1
Left side	20	QPSK 1RB_99	40620/2593	1:1.58	0.273	0.06	24.29	25.00	1.178	0.321	22.1
Right side	20	QPSK 1RB_99	40620/2593	1:1.58	0.069	-0.11	24.29	25.00	1.178	0.081	22.1
Bottom side	20	QPSK 1RB_99	40620/2593	1:1.58	0.561	-0.04	24.29	25.00	1.178	0.661	22.1
Bottom side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.555	0.04	24.26	25.00	1.186	0.658	22.1
		SCC 1RB_0	40719/2602.9								
Bottom side	20	QPSK 1RB_50	39750/2506	1:1.58	0.441	0.02	24.25	25.00	1.189	0.524	22.1
Bottom side	20	QPSK 1RB_99	40185/2549.5	1:1.58	0.457	0.04	24.28	25.00	1.180	0.539	22.1
Bottom side	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.489	0.04	24.16	25.00	1.213	0.593	22.1
Bottom side	20	QPSK 1RB_99	41490/2680	1:1.58	0.499	0.02	24.28	25.00	1.180	0.589	22.1
Bottom side with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.549	-0.03	24.29	25.00	1.178	0.647	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.348	-0.02	23.34	24.00	1.164	0.405	22.1
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.291	-0.08	23.34	24.00	1.164	0.339	22.1
Left side	20	QPSK 50RB_0	40620/2593	1:1.58	0.231	0.05	23.34	24.00	1.164	0.269	22.1
Right side	20	QPSK 50RB_0	40620/2593	1:1.58	0.067	0.17	23.34	24.00	1.164	0.078	22.1
Bottom side	20	QPSK 50RB_0	40620/2593	1:1.58	0.478	-0.04	23.34	24.00	1.164	0.556	22.1
Hotspot Test data (Separate 10mm 100%RB)											



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Bottom side	20	QPSK 100RB_0	41490/2680	1:1.58	0.506	0.02	23.28	24.00	1.180	0.597	22.1
ANT2 Test Record											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.148	0.05	22.67	23.50	1.211	0.179	22.1
Left cheek	20	PCC 1RB_99	40521/2583.1	1:1.58	0.135	0.01	22.41	23.50	1.285	0.174	22.1
		SCC 1RB_0	40719/2602.9								
Left tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.046	0.11	22.67	23.50	1.211	0.056	22.1
Right cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.086	0.07	22.67	23.50	1.211	0.104	22.1
Right tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.071	0.00	22.67	23.50	1.211	0.086	22.1
Left cheek with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.146	0.19	22.67	23.50	1.211	0.177	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.131	-0.13	21.71	22.50	1.199	0.157	22.1
Left tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.037	0.17	21.71	22.50	1.199	0.045	22.1
Right cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.077	0.00	21.71	22.50	1.199	0.092	22.1
Right tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.064	0.00	21.71	22.50	1.199	0.077	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.071	0.01	22.67	23.50	1.211	0.085	22.1
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.113	0.04	22.67	23.50	1.211	0.137	22.1
Back side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.101	0.03	22.41	23.50	1.285	0.130	22.1
		SCC 1RB_0	40719/2602.9								
Back side with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.111	0.04	22.67	23.50	1.211	0.134	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.064	0.09	21.71	22.50	1.199	0.077	22.1
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.105	-0.19	21.71	22.50	1.199	0.126	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.162	0.12	22.67	23.50	1.211	0.196	22.1
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.236	-0.02	22.67	23.50	1.211	0.286	22.1
Left side	20	QPSK 1RB_99	40620/2593	1:1.58	0.307	0.19	22.67	23.50	1.211	0.372	22.1
Left side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.278	0.04	22.41	23.50	1.285	0.357	22.1
		SCC 1RB_0	40719/2602.9								
Bottom side	20	QPSK 1RB_99	40620/2593	1:1.58	0.042	-0.12	22.67	23.50	1.211	0.051	22.1
Left side with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.300	0.11	22.67	23.50	1.211	0.363	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.147	0.07	21.71	22.50	1.199	0.176	22.1
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.208	-0.17	21.71	22.50	1.199	0.249	22.1
Left side	20	QPSK 50RB_0	40620/2593	1:1.58	0.254	0.14	21.71	22.50	1.199	0.305	22.1
Bottom side	20	QPSK 50RB_0	40620/2593	1:1.58	0.035	0.16	21.71	22.50	1.199	0.042	22.1
ANT3 Test Record											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	41490/2680	1:1.58	0.088	-0.07	24.44	25.00	1.138	0.100	22.1
Left tilted	20	QPSK 1RB_99	41490/2680	1:1.58	0.050	-0.08	24.44	25.00	1.138	0.057	22.1
Right cheek	20	QPSK 1RB_99	41490/2680	1:1.58	0.341	0.16	24.44	25.00	1.138	0.388	22.1
Right cheek	20	PCC 1RB_99	41292/2660.2	1:1.58	0.325	0.04	24.31	25.00	1.172	0.381	22.1
		SCC 1RB_0	41490/2680								



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Right tilted	20	QPSK 1RB_99	41490/2680	1:1.58	0.091	0.18	24.44	25.00	1.138	0.103	22.1
Right cheek with Battery2	20	QPSK 1RB_99	41490/2680	1:1.58	0.313	-0.09	24.44	25.00	1.138	0.356	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	41490/2680	1:1.58	0.074	-0.18	23.47	24.00	1.130	0.083	22.1
Left tilted	20	QPSK 50RB_0	41490/2680	1:1.58	0.044	0.06	23.47	24.00	1.130	0.050	22.1
Right cheek	20	QPSK 50RB_0	41490/2680	1:1.58	0.265	-0.19	23.47	24.00	1.130	0.299	22.1
Right tilted	20	QPSK 50RB_0	41490/2680	1:1.58	0.081	0.11	23.47	24.00	1.130	0.092	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	41490/2680	1:1.58	0.055	-0.04	24.44	25.00	1.138	0.063	22.1
Back side	20	QPSK 1RB_99	41490/2680	1:1.58	0.852	-0.07	24.44	25.00	1.138	0.969	22.1
Back side	20	PCC 1RB_99	41292/2660.2	1:1.58	0.825	0.04	24.31	25.00	1.172	0.967	22.1
		SCC 1RB_0	41490/2680								
Back side-Repeat	20	QPSK 1RB_99	41490/2680	1:1.58	0.837	0.00	24.44	25.00	1.138	0.952	22.1
Back side	20	QPSK 1RB_50	39750/2506	1:1.58	0.355	-0.13	23.97	25.00	1.268	0.450	22.1
Back side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.518	-0.16	24.07	25.00	1.239	0.642	22.1
Back side	20	QPSK 1RB_50	40620/2593	1:1.58	0.668	-0.07	24.18	25.00	1.208	0.807	22.1
Back side	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.747	-0.13	24.33	25.00	1.167	0.872	22.1
Back side with Battery2	20	QPSK 1RB_99	41490/2680	1:1.58	0.844	0.05	24.44	25.00	1.138	0.960	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	41490/2680	1:1.58	0.047	0.18	23.47	24.00	1.130	0.053	22.1
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.697	0.02	23.47	24.00	1.130	0.787	22.1
Back side	20	QPSK 50RB_50	39750/2506	1:1.58	0.170	-0.08	23.08	24.00	1.236	0.210	22.1
Back side	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.176	0.19	23.14	24.00	1.219	0.215	22.1
Back side	20	QPSK 50RB_25	40620/2593	1:1.58	0.182	0.12	23.24	24.00	1.191	0.217	22.1
Back side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.188	-0.08	23.37	24.00	1.156	0.217	22.1
Body Worn Test data(Separate 15mm 100%RB)											
Back side	20	QPSK 100RB_0	41490/2680	1:1.58	0.680	-0.10	23.40	24.00	1.148	0.781	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	41490/2680	1:1.58	0.033	0.00	19.90	20.50	1.148	0.038	22.1
Back side	20	QPSK 1RB_50	41490/2680	1:1.58	0.674	-0.03	19.90	20.50	1.148	0.774	22.1
Back side	20	PCC 1RB_99	41292/2660.2	1:1.58	0.585	0.04	19.73	20.50	1.194	0.698	22.1
		SCC 1RB_0	41490/2680								
Left side	20	QPSK 1RB_50	41490/2680	1:1.58	0.192	-0.19	19.90	20.50	1.148	0.220	22.1
Top side	20	QPSK 1RB_50	41490/2680	1:1.58	0.015	0.09	19.90	20.50	1.148	0.017	22.1
Back side	20	QPSK 1RB_50	39750/2506	1:1.58	0.318	0.16	19.41	20.50	1.285	0.409	22.1
Back side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.328	0.06	19.55	20.50	1.245	0.408	22.1
Back side	20	QPSK 1RB_50	40620/2593	1:1.58	0.341	0.09	19.66	20.50	1.213	0.414	22.1
Back side	20	QPSK 1RB_50	41055/2636.5	1:1.58	0.351	0.19	19.75	20.50	1.189	0.417	22.1
Back side with Battery2	20	QPSK 1RB_50	41490/2680	1:1.58	0.667	0.03	19.90	20.50	1.148	0.766	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	41490/2680	1:1.58	0.035	0.00	19.96	20.50	1.132	0.039	22.1
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.683	0.14	19.96	20.50	1.132	0.773	22.1
Back side	20	QPSK 50RB_50	39750/2506	1:1.58	0.263	0.05	19.58	20.50	1.236	0.325	22.1
Back side	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.271	0.14	19.56	20.50	1.242	0.336	22.1
Back side	20	QPSK 50RB_50	40620/2593	1:1.58	0.341	0.19	19.68	20.50	1.208	0.412	22.1
Back side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.351	0.09	19.84	20.50	1.164	0.409	22.1
Left side	20	QPSK 50RB_0	41490/2680	1:1.58	0.155	-0.19	19.96	20.50	1.132	0.176	22.1



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Top side	20	QPSK 50RB_0	41490/2680	1:1.58	0.015	0.09	19.96	20.50	1.132	0.017	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Back side	20	QPSK 100RB_0	41490/2680	1:1.58	0.364	-0.04	19.90	20.50	1.148	0.418	22.1
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(W/kg)	Liquid Temp.
Product Specific 10-g SAR Sensor on(Separate 0mm 1RB)											
Back side	20	QPSK 1RB_50	41490/2680	1:1	1.080	0.17	19.90	20.50	1.148	1.240	22.1
Product Specific 10-g SAR Sensor on(Separate 0mm 50%RB)											
Back side	20	QPSK 50RB_0	41490/2680	1:1	1.190	0.19	19.96	20.50	1.132	1.348	22.1
Back side	20	PCC 1RB_99	41292/2660.2	1:1.58	1.050	0.01	19.73	20.50	1.194	1.254	22.1
		SCC 1RB_0	41490/2680								
Back side with Battery2	20	QPSK 50RB_0	41490/2680	1:1	1.160	0.08	19.96	20.50	1.132	1.314	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 1RB)											
Back side	20	QPSK 1RB_99	41490/2680	1:1	0.357	0.01	24.44	25.00	1.138	0.406	22.1
Product Specific 10-g SAR Sensor off(Separate 5mm 50%RB)											
Back side	20	QPSK 50RB_0	41490/2680	1:1	0.366	-0.18	23.47	24.00	1.130	0.414	22.1
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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.233	0.11	18.63	20.00	1.371	0.319	22.1
Left tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.253	0.17	18.63	20.00	1.371	0.347	22.1
Right cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.682	0.20	18.63	20.00	1.371	0.935	22.1
Right cheek	20	QPSK 1RB_99	39750/2506	1:1.58	0.699	0.19	18.58	20.00	1.387	0.969	22.1
Right cheek	20	QPSK 1RB_99	40185/2549.5	1:1.58	0.678	-0.06	18.60	20.00	1.380	0.936	22.1
Right cheek	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.719	0.04	18.59	20.00	1.384	0.995	22.1
Right cheek	20	QPSK 1RB_99	41490/2680	1:1.58	0.775	0.09	18.52	20.00	1.406	1.090	22.1
Right tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.560	0.20	18.63	20.00	1.371	0.768	22.1
Right tilted	20	QPSK 1RB_99	39750/2506	1:1.58	0.632	0.17	18.58	20.00	1.387	0.876	22.1
Right tilted	20	QPSK 1RB_99	40185/2549.5	1:1.58	0.606	0.05	18.60	20.00	1.380	0.837	22.1
Right tilted	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.648	0.17	18.59	20.00	1.384	0.897	22.1
Right tilted	20	QPSK 1RB_99	41490/2680	1:1.58	0.671	0.17	18.52	20.00	1.406	0.943	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.231	0.16	18.70	20.00	1.349	0.312	22.1
Left tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.264	0.13	18.70	20.00	1.349	0.356	22.1
Right cheek	20	QPSK 50RB_0	40620/2593	1:1.58	0.700	0.13	18.70	20.00	1.349	0.944	22.1
Right cheek	20	QPSK 50RB_0	39750/2506	1:1.58	0.650	0.18	18.59	20.00	1.384	0.899	22.1
Right cheek	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.726	-0.01	18.67	20.00	1.358	0.986	22.1
Right cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.747	0.02	18.66	20.00	1.361	1.017	22.1
Right cheek	20	QPSK 50RB_0	41490/2680	1:1.58	0.796	0.15	18.62	20.00	1.374	1.094	22.1
Right cheek	20	PCC 1RB_99	41292/2660.2	1:1.58	0.755	0.01	18.55	20.00	1.396	1.054	22.1
		SCC 1RB_0	41490/2680								
Right tilted	20	QPSK 50RB_0	40620/2593	1:1.58	0.567	0.07	18.70	20.00	1.349	0.765	22.1
Right tilted	20	QPSK 50RB_0	39750/2506	1:1.58	0.625	0.17	18.59	20.00	1.384	0.865	22.1
Right tilted	20	QPSK 50RB_0	40185/2549.5	1:1.58	0.606	0.15	18.67	20.00	1.358	0.823	22.1
Right tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.646	0.16	18.66	20.00	1.361	0.879	22.1
Right tilted	20	QPSK 50RB_0	41490/2680	1:1.58	0.665	0.18	18.62	20.00	1.374	0.914	22.1



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Right cheek with Battery2	20	QPSK 50RB_0	41490/2680	1:1.58	0.780	-0.03	18.62	20.00	1.374	1.072	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	41490/2680	1:1.58	0.756	0.05	18.62	20.00	1.374	1.039	22.1
Right tilted	20	QPSK 100RB_0	41490/2680	1:1.58	0.661	0.19	18.62	20.00	1.374	0.908	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.183	0.18	23.24	24.50	1.337	0.245	22.1
Front side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.165	0.05	23.15	24.50	1.365	0.225	22.1
		SCC 1RB_0	40719/2602.9								
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.161	0.14	23.24	24.50	1.337	0.215	22.1
Front side with Battery2	20	QPSK 1RB_99	40620/2593	1:1.58	0.173	0.18	23.24	24.50	1.337	0.231	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.169	-0.09	22.27	23.50	1.327	0.224	22.1
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.131	-0.05	22.27	23.50	1.327	0.174	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.114	0.09	18.63	20.00	1.371	0.156	22.1
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.067	-0.17	18.63	20.00	1.371	0.092	22.1
Left side	20	QPSK 1RB_99	40620/2593	1:1.58	0.084	-0.11	18.63	20.00	1.371	0.116	22.1
Top side	20	QPSK 1RB_99	40620/2593	1:1.58	0.122	-0.02	18.63	20.00	1.371	0.167	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	40620/2593	1:1.58	0.143	0.07	18.70	20.00	1.349	0.193	22.1
Front side	20	PCC 1RB_99	40521/2583.1	1:1.58	0.135	0.05	18.55	20.00	1.396	0.189	22.1
		SCC 1RB_0	40719/2602.9								
Back side	20	QPSK 50RB_0	40620/2593	1:1.58	0.0707	0.13	18.70	20.00	1.349	0.095	22.1
Left side	20	QPSK 50RB_0	40620/2593	1:1.58	0.0893	0.11	18.70	20.00	1.349	0.120	22.1
Top side	20	QPSK 50RB_0	40620/2593	1:1.58	0.136	0.06	18.70	20.00	1.349	0.183	22.1
Front side with Battery2	20	QPSK 50RB_0	40620/2593	1:1.58	0.129	0.06	18.70	20.00	1.349	0.174	22.1

Table 22: SAR of LTE Band 41

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	41490/2680	0.852	0.837	1.018	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 performed 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 ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed 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



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8.3.13 SAR Result of 5G NR n41

ANT0 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)	Liquid Temp.	
Head Test data(1RB)												
Left cheek	100	QPSK 1RB_137	513900/2569.5	100%	0.210	0.09	24.30	25.00	1.175	0.247	22.1	
Left tilted	100	QPSK 1RB_137	513900/2569.5	100%	0.078	-0.09	24.30	25.00	1.175	0.092	22.1	
Right cheek	100	QPSK 1RB_137	513900/2569.5	100%	0.149	0.18	24.30	25.00	1.175	0.175	22.1	
Right tilted	100	QPSK 1RB_137	513900/2569.5	100%	0.073	0.06	24.30	25.00	1.175	0.085	22.1	
Left cheek with Battery2	100	QPSK 1RB_137	513900/2569.5	100%	0.204	-0.05	24.30	25.00	1.175	0.240	22.1	
Head Test data(50%RB)												
Left cheek	100	QPSK 135RB_69	518598/2592.99	100%	0.173	-0.030	24.29	25.00	1.178	0.204	22.1	
Left tilted	100	QPSK 135RB_69	518598/2592.99	100%	0.110	-0.130	24.29	25.00	1.178	0.130	22.1	
Right cheek	100	QPSK 135RB_69	518598/2592.99	100%	0.160	0.140	24.29	25.00	1.178	0.188	22.1	
Right tilted	100	QPSK 135RB_69	518598/2592.99	100%	0.076	0.100	24.29	25.00	1.178	0.089	22.1	
Body Worn Test data(Separate 15mm 1RB)												
Front side	100	QPSK 1RB_137	513900/2569.5	100%	0.206	0.03	24.30	25.00	1.175	0.242	22.1	
Back side	100	QPSK 1RB_137	513900/2569.5	100%	0.238	0.11	24.30	25.00	1.175	0.280	22.1	
Body Worn Test data(Separate 15mm 50%RB)												
Front side	100	QPSK 135RB_69	518598/2592.99	100%	0.272	-0.07	24.29	25.00	1.178	0.320	22.1	
Back side	100	QPSK 135RB_69	518598/2592.99	100%	0.293	0.19	24.29	25.00	1.178	0.345	22.1	
Back side with Battery2	100	QPSK 135RB_69	518598/2592.99	100%	0.278	0.16	24.29	25.00	1.178	0.327	22.1	
Hotspot Test data(Separate 10mm 1RB)												
Front side	100	QPSK 1RB_137	513900/2569.5	100%	0.278	-0.07	21.01	22.00	1.256	0.349	22.1	
Back side	100	QPSK 1RB_137	513900/2569.5	100%	0.318	0.18	21.01	22.00	1.256	0.399	22.1	
Left side	100	QPSK 1RB_137	513900/2569.5	100%	0.168	-0.20	21.01	22.00	1.256	0.211	22.1	
Right side	100	QPSK 1RB_137	513900/2569.5	100%	0.084	0.01	21.01	22.00	1.256	0.106	22.1	
Bottom side	100	QPSK 1RB_137	513900/2569.5	100%	0.349	0.14	21.01	22.00	1.256	0.438	22.1	
Bottom side with Battery2	100	QPSK 1RB_137	513900/2569.5	100%	0.309	0.18	21.01	22.00	1.256	0.388	22.1	
Hotspot Test data (Separate 10mm 50%RB)												
Front side	100	QPSK 135RB_69	518598/2592.99	100%	0.334	-0.13	21.19	22.00	1.205	0.402	22.1	
Back side	100	QPSK 135RB_69	518598/2592.99	100%	0.288	0.03	21.19	22.00	1.205	0.347	22.1	
Left side	100	QPSK 135RB_69	518598/2592.99	100%	0.171	-0.17	21.19	22.00	1.205	0.206	22.1	
Right side	100	QPSK 135RB_69	518598/2592.99	100%	0.095	0.02	21.19	22.00	1.205	0.114	22.1	
Bottom side	100	QPSK 135RB_69	518598/2592.99	100%	0.335	0.15	21.19	22.00	1.205	0.404	22.1	
ANT2 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)	Liquid Temp.	
Head Test data(1RB)												
Left cheek	100	QPSK 1RB_137	518598/2592.99	100%	0.242	0.09	24.18	25.00	1.208	0.292	22.1	
Left tilted	100	QPSK 1RB_137	518598/2592.99	100%	0.095	0.06	24.18	25.00	1.208	0.114	22.1	
Right cheek	100	QPSK 1RB_137	518598/2592.99	100%	0.225	0.12	24.18	25.00	1.208	0.272	22.1	
Right tilted	100	QPSK 1RB_137	518598/2592.99	100%	0.191	0.08	24.18	25.00	1.208	0.231	22.1	
Head Test data(50%RB)												
Left cheek	100	QPSK 135RB_69	518598/2592.99	100%	0.302	-0.06	24.06	25.00	1.242	0.375	22.1	
Left tilted	100	QPSK 135RB_69	518598/2592.99	100%	0.093	0.07	24.06	25.00	1.242	0.116	22.1	
Right cheek	100	QPSK 135RB_69	518598/2592.99	100%	0.241	0.07	24.06	25.00	1.242	0.299	22.1	
Right tilted	100	QPSK 135RB_69	518598/2592.99	100%	0.186	0.1	24.06	25.00	1.242	0.231	22.1	
Left cheek with Battery2	100	QPSK 135RB_69	518598/2592.99	100%	0.287	-0.06	24.06	25.00	1.242	0.356	22.1	
Body Worn Test data(Separate 15mm 1RB)												



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Front side	100	QPSK 1RB_137	518598/2592.99	100%	0.227	0.14	22.09	23.00	1.233	0.280	22.1
Back side	100	QPSK 1RB_137	518598/2592.99	100%	0.250	-0.12	22.09	23.00	1.233	0.308	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	518598/2592.99	100%	0.242	0.12	22.10	23.00	1.230	0.298	22.1
Back side	100	QPSK 135RB_69	518598/2592.99	100%	0.381	-0.04	22.10	23.00	1.230	0.469	22.1
Back side with Battery2	100	QPSK 135RB_69	518598/2592.99	100%	0.361	0.01	22.10	23.00	1.230	0.444	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	518598/2592.99	100%	0.131	0.11	21.05	22.00	1.245	0.163	22.1
Back side	100	QPSK 1RB_137	518598/2592.99	100%	0.239	0.13	21.05	22.00	1.245	0.297	22.1
Left side	100	QPSK 1RB_137	518598/2592.99	100%	0.254	0.07	21.05	22.00	1.245	0.316	22.1
Bottom side	100	QPSK 1RB_137	518598/2592.99	100%	0.052	-0.15	21.05	22.00	1.245	0.064	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	518598/2592.99	100%	0.209	-0.08	21.05	22.00	1.245	0.260	22.1
Back side	100	QPSK 135RB_69	518598/2592.99	100%	0.246	-0.02	21.05	22.00	1.245	0.306	22.1
Left side	100	QPSK 135RB_69	518598/2592.99	100%	0.274	0.08	21.05	22.00	1.245	0.341	22.1
Bottom side	100	QPSK 135RB_69	518598/2592.99	100%	0.055	0.03	21.05	22.00	1.245	0.068	22.1
Left side with Battery2	100	QPSK 135RB_69	518598/2592.99	100%	0.260	0.08	21.05	22.00	1.245	0.324	22.1
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_137	509202/2546.01	100%	0.267	-0.11	24.18	25.00	1.208	0.322	22.1
Left tilted	100	QPSK 1RB_137	509202/2546.01	100%	0.178	-0.03	24.18	25.00	1.208	0.215	22.1
Right cheek	100	QPSK 1RB_137	509202/2546.01	100%	0.632	-0.17	24.18	25.00	1.208	0.763	22.1
Right cheek	100	QPSK 1RB_137	513900/2569.5	100%	0.448	0.13	24.12	25.00	1.225	0.549	22.1
Right cheek	100	QPSK 1RB_137	518598/2592.99	100%	0.509	0.11	24.10	25.00	1.230	0.626	22.1
Right cheek	100	QPSK 1RB_137	523302/2616.51	100%	0.548	-0.16	24.00	25.00	1.259	0.690	22.1
Right cheek	100	QPSK 1RB_137	528000/2640	100%	0.435	-0.15	23.95	25.00	1.274	0.554	22.1
Right tilted	100	QPSK 1RB_137	509202/2546.01	100%	0.287	0.17	24.18	25.00	1.208	0.347	22.1
Right cheek with Battery2	100	QPSK 1RB_137	509202/2546.01	100%	0.619	0.05	24.18	25.00	1.208	0.748	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	509202/2546.01	100%	0.184	0.16	24.12	25.00	1.225	0.225	22.1
Left tilted	100	QPSK 135RB_69	509202/2546.01	100%	0.140	-0.04	24.12	25.00	1.225	0.171	22.1
Right cheek	100	QPSK 135RB_69	509202/2546.01	100%	0.531	0.1	24.12	25.00	1.225	0.650	22.1
Right tilted	100	QPSK 135RB_69	509202/2546.01	100%	0.227	-0.01	24.12	25.00	1.225	0.278	22.1
Head Test data(100%RB)											
Right cheek	100	QPSK 270RB_0	509202/2546.01	100%	0.619	0.05	23.30	24.00	1.175	0.727	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_137	509202/2546.01	100%	0.090	0.02	22.47	23.00	1.130	0.102	22.1
Back side	100	QPSK 1RB_137	509202/2546.01	100%	0.645	-0.11	22.47	23.00	1.130	0.729	22.1
Back side	100	QPSK 1RB_137	513900/2569.5	100%	0.690	-0.06	22.26	23.00	1.186	0.818	22.1
Back side	100	QPSK 1RB_137	518598/2592.99	100%	0.729	0.05	22.24	23.00	1.191	0.868	22.1
Back side	100	QPSK 1RB_137	523302/2616.51	100%	0.695	0.11	22.22	23.00	1.197	0.832	22.1
Back side	100	QPSK 1RB_137	528000/2640	100%	0.807	0.05	22.45	23.00	1.135	0.916	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	509202/2546.01	100%	0.110	0.05	22.41	23.00	1.146	0.126	22.1
Back side	100	QPSK 135RB_69	509202/2546.01	100%	0.685	-0.16	22.41	23.00	1.146	0.785	22.1
Back side	100	QPSK 135RB_69	513900/2569.5	100%	0.669	-0.16	22.14	23.00	1.219	0.816	22.1
Back side	100	QPSK 135RB_69	518598/2592.99	100%	0.663	0.08	22.24	23.00	1.191	0.790	22.1
Back side	100	QPSK 135RB_69	523302/2616.51	100%	0.753	0.14	22.22	23.00	1.197	0.901	22.1
Back side	100	QPSK 135RB_69	528000/2640	100%	0.802	0.00	22.40	23.00	1.148	0.921	22.1
Back side with Battery2	100	QPSK 135RB_69	528000/2640	100%	0.774	0.14	22.40	23.00	1.148	0.889	22.1



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Body Worn Test data(Separate 15mm 100RB)											
Back side	100	QPSK 270RB_0	528000/2640	100%	0.618	0.04	22.16	23.00	1.213	0.750	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	509202/2546.01	100%	0.058	0.00	16.71	17.50	1.199	0.070	22.1
Back side	100	QPSK 1RB_137	509202/2546.01	100%	0.244	0.04	16.71	17.50	1.199	0.293	22.1
Left side	100	QPSK 1RB_137	509202/2546.01	100%	0.210	-0.02	16.71	17.50	1.199	0.252	22.1
Top side	100	QPSK 1RB_137	509202/2546.01	100%	0.041	-0.11	16.71	17.50	1.199	0.049	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	509202/2546.01	100%	0.055	0.00	16.70	17.50	1.202	0.066	22.1
Back side	100	QPSK 135RB_69	509202/2546.01	100%	0.258	-0.07	16.70	17.50	1.202	0.310	22.1
Left side	100	QPSK 135RB_69	509202/2546.01	100%	0.244	-0.13	16.70	17.50	1.202	0.293	22.1
Top side	100	QPSK 135RB_69	509202/2546.01	100%	0.150	-0.07	16.70	17.50	1.202	0.180	22.1
Back side with Battery2	100	QPSK 135RB_69	509202/2546.01	100%	0.237	-0.17	16.70	17.50	1.202	0.285	22.1
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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_137	509202/2546.01	100%	0.235	0.07	16.51	17.50	1.256	0.295	22.1
Left tilted	100	QPSK 1RB_137	509202/2546.01	100%	0.250	0.12	16.51	17.50	1.256	0.314	22.1
Right cheek	100	QPSK 1RB_137	509202/2546.01	100%	0.455	0.11	16.51	17.50	1.256	0.571	22.1
Right tilted	100	QPSK 1RB_137	509202/2546.01	100%	0.478	0.05	16.51	17.50	1.256	0.600	22.1
Right cheek	100	QPSK 1RB_137	513900/2569.5	100%	0.273	0.08	16.35	17.50	1.303	0.356	22.1
Right cheek	100	QPSK 1RB_137	518598/2592.99	100%	0.281	0.10	16.46	17.50	1.271	0.357	22.1
Right cheek	100	QPSK 1RB_137	523302/2616.51	100%	0.288	0.07	16.43	17.50	1.279	0.368	22.1
Right cheek	100	QPSK 1RB_137	528000/2640	100%	0.290	0.12	16.42	17.50	1.282	0.372	22.1
Right tilted	100	QPSK 1RB_137	513900/2569.5	100%	0.350	0.19	16.35	17.50	1.303	0.456	22.1
Right tilted	100	QPSK 1RB_137	518598/2592.99	100%	0.353	0.09	16.46	17.50	1.271	0.449	22.1
Right tilted	100	QPSK 1RB_137	523302/2616.51	100%	0.360	0.08	16.43	17.50	1.279	0.461	22.1
Right tilted	100	QPSK 1RB_137	528000/2640	100%	0.367	0.12	16.42	17.50	1.282	0.471	22.1
Right tilted with Battery2	100	QPSK 1RB_137	509202/2546.01	100%	0.453	-0.03	16.51	17.50	1.256	0.569	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	509202/2546.01	100%	0.236	0.18	16.65	17.50	1.216	0.287	22.1
Left tilted	100	QPSK 135RB_69	509202/2546.01	100%	0.278	0.19	16.65	17.50	1.216	0.338	22.1
Right cheek	100	QPSK 135RB_69	509202/2546.01	100%	0.438	-0.17	16.65	17.50	1.216	0.533	22.1
Right tilted	100	QPSK 135RB_69	509202/2546.01	100%	0.484	0.16	16.65	17.50	1.216	0.589	22.1
Right tilted	100	QPSK 135RB_69	513900/2569.5	100%	0.342	0.05	16.34	17.50	1.306	0.447	22.1
Right tilted	100	QPSK 135RB_69	518598/2592.99	100%	0.350	0.07	16.42	17.50	1.282	0.449	22.1
Right tilted	100	QPSK 135RB_69	523302/2616.51	100%	0.360	0.17	16.44	17.50	1.276	0.460	22.1
Right tilted	100	QPSK 135RB_69	528000/2640	100%	0.361	0.08	16.35	17.50	1.303	0.470	22.1
Head Test data(100%RB)											
Right cheek	100	QPSK 270RB_0	523302/2616.51	100%	0.357	0.07	16.25	17.50	1.334	0.476	22.1
Right tilted	100	QPSK 270RB_0	523302/2616.51	100%	0.358	0.06	16.25	17.50	1.334	0.477	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_137	509202/2546.01	100%	0.387	0.18	24.54	25.00	1.112	0.430	22.1
Back side	100	QPSK 1RB_137	509202/2546.01	100%	0.291	-0.16	24.54	25.00	1.112	0.324	22.1
Front side with Battery2	100	QPSK 1RB_137	509202/2546.01	100%	0.366	-0.11	24.54	25.00	1.112	0.407	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	509202/2546.01	100%	0.374	-0.12	24.54	25.00	1.112	0.416	22.1
Back side	100	QPSK 135RB_69	509202/2546.01	100%	0.257	0.06	24.54	25.00	1.112	0.286	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	509202/2546.01	100%	0.109	0.05	16.51	17.50	1.256	0.137	22.1
Back side	100	QPSK 1RB_137	509202/2546.01	100%	0.111	0.14	16.51	17.50	1.256	0.139	22.1



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Left side	100	QPSK 1RB_137	509202/2546.01	100%	0.107	-0.06	16.51	17.50	1.256	0.134	22.1
Top side	100	QPSK 1RB_137	509202/2546.01	100%	0.139	0.12	16.51	17.50	1.256	0.175	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	509202/2546.01	100%	0.117	-0.19	16.65	17.50	1.216	0.142	22.1
Back side	100	QPSK 135RB_69	509202/2546.01	100%	0.102	0.17	16.65	17.50	1.216	0.124	22.1
Left side	100	QPSK 135RB_69	509202/2546.01	100%	0.095	0.01	16.65	17.50	1.216	0.116	22.1
Top side	100	QPSK 135RB_69	509202/2546.01	100%	0.152	0.06	16.65	17.50	1.216	0.185	22.1
Top side with Battery2	100	QPSK 135RB_69	509202/2546.01	100%	0.144	-0.03	16.65	17.50	1.216	0.175	22.1

Table 23: SAR of 5G NR n41



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8.3.14 SAR Result of 5G NR n77

ANT1 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_137	652400/3786	100%	0.328	-0.08	25.16	25.50	1.081	0.355	22.1
Left tilted	100	QPSK 1RB_137	652400/3786	100%	0.387	-0.02	25.16	25.50	1.081	0.419	22.1
Right cheek	100	QPSK 1RB_137	652400/3786	100%	0.708	0.19	25.16	25.50	1.081	0.766	22.1
Right tilted	100	QPSK 1RB_137	652400/3786	100%	0.301	0.18	25.16	25.50	1.081	0.326	22.1
Left tilted	100	QPSK 1RB_137	650000/3750	100%	0.543	-0.13	24.96	25.50	1.132	0.615	22.1
Left tilted	100	QPSK 1RB_137	654800/3822	100%	0.523	-0.14	24.73	25.50	1.194	0.624	22.1
Left tilted	100	QPSK 1RB_137	657200/3858	100%	0.527	-0.16	24.70	25.50	1.202	0.634	22.1
Left tilted	100	QPSK 1RB_137	659600/3894	100%	0.531	-0.09	24.60	25.50	1.230	0.653	22.1
Left tilted	100	QPSK 1RB_137	662000/3930	100%	0.534	-0.08	24.50	25.50	1.259	0.672	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	100%	0.626	-0.17	24.96	25.50	1.132	0.709	22.1
Right cheek	100	QPSK 1RB_137	654800/3822	100%	0.603	-0.04	24.73	25.50	1.194	0.720	22.1
Right cheek	100	QPSK 1RB_137	657200/3858	100%	0.608	0.09	24.70	25.50	1.202	0.731	22.1
Right cheek	100	QPSK 1RB_137	659600/3894	100%	0.613	0.12	24.60	25.50	1.230	0.754	22.1
Right cheek	100	QPSK 1RB_137	662000/3930	100%	0.589	-0.06	24.50	25.50	1.259	0.742	22.1
Right cheek with Battery2	100	QPSK 1RB_137	652400/3786	100%	0.686	-0.05	25.16	25.50	1.081	0.742	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	652400/3786	100%	0.320	0.09	25.13	25.50	1.089	0.348	22.1
Left tilted	100	QPSK 135RB_69	652400/3786	100%	0.429	0.13	25.13	25.50	1.089	0.467	22.1
Right cheek	100	QPSK 135RB_69	652400/3786	100%	0.570	0.19	25.13	25.50	1.089	0.621	22.1
Right tilted	100	QPSK 135RB_69	652400/3786	100%	0.261	0.18	25.13	25.50	1.089	0.284	22.1
Left tilted	100	QPSK 135RB_69	650000/3750	100%	0.398	0.04	25.12	25.50	1.091	0.434	22.1
Left tilted	100	QPSK 135RB_69	654800/3822	100%	0.340	0.08	24.70	25.50	1.202	0.409	22.1
Left tilted	100	QPSK 135RB_69	657200/3858	100%	0.334	0.01	24.70	25.50	1.202	0.402	22.1
Left tilted	100	QPSK 135RB_69	659600/3894	100%	0.364	-0.02	24.56	25.50	1.242	0.452	22.1
Left tilted	100	QPSK 135RB_69	662000/3930	100%	0.348	-0.02	24.50	25.50	1.259	0.438	22.1
Right cheek	100	QPSK 135RB_69	650000/3750	100%	0.512	-0.19	25.12	25.50	1.091	0.559	22.1
Right cheek	100	QPSK 135RB_69	654800/3822	100%	0.494	-0.11	24.70	25.50	1.202	0.594	22.1
Right cheek	100	QPSK 135RB_69	657200/3858	100%	0.497	0.20	24.70	25.50	1.202	0.598	22.1
Right cheek	100	QPSK 135RB_69	659600/3894	100%	0.411	-0.01	24.56	25.50	1.242	0.510	22.1
Right cheek	100	QPSK 135RB_69	662000/3930	100%	0.414	-0.20	24.50	25.50	1.259	0.521	22.1
Head Test data(100%RB)											
Left tilted	100	QPSK 270RB_0	650000/3750	100%	0.353	-0.02	23.91	24.50	1.146	0.404	22.1
Right cheek	100	QPSK 270RB_0	650000/3750	100%	0.420	-0.07	23.91	24.50	1.146	0.481	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_137	652400/3786	100%	0.088	0.06	18.19	18.50	1.074	0.094	22.1
Back side	100	QPSK 1RB_137	652400/3786	100%	0.099	-0.20	18.19	18.50	1.074	0.106	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	652400/3786	100%	0.092	-0.06	18.10	18.50	1.096	0.101	22.1
Back side	100	QPSK 135RB_69	652400/3786	100%	0.102	0.17	18.10	18.50	1.096	0.112	22.1
Back side with Battery2	100	QPSK 135RB_69	652400/3786	100%	0.098	0.17	18.10	18.50	1.096	0.107	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	652400/3786	100%	0.164	0.06	18.19	18.50	1.074	0.176	22.1
Back side	100	QPSK 1RB_137	652400/3786	100%	0.196	-0.04	18.19	18.50	1.074	0.211	22.1
Right side	100	QPSK 1RB_137	652400/3786	100%	0.579	0.10	18.19	18.50	1.074	0.622	22.1
Right side	100	QPSK 1RB_137	650000/3750	100%	0.459	-0.17	17.96	18.50	1.132	0.520	22.1
Right side	100	QPSK 1RB_137	654800/3822	100%	0.443	-0.19	17.95	18.50	1.135	0.503	22.1



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Right side	100	QPSK 1RB_137	657200/3858	100%	0.446	0.09	17.92	18.50	1.143	0.510	22.1
Right side	100	QPSK 1RB_137	659600/3894	100%	0.449	-0.01	17.90	18.50	1.148	0.516	22.1
Right side	100	QPSK 1RB_137	662000/3930	100%	0.452	-0.17	17.85	18.50	1.161	0.525	22.1
Bottom side	100	QPSK 1RB_137	652400/3786	100%	0.074	-0.07	18.19	18.50	1.074	0.080	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	652400/3786	100%	0.169	0.07	18.10	18.50	1.096	0.185	22.1
Back side	100	QPSK 135RB_69	652400/3786	100%	0.180	-0.09	18.10	18.50	1.096	0.197	22.1
Right side	100	QPSK 135RB_69	652400/3786	100%	0.583	0.1	18.10	18.50	1.096	0.639	22.1
Bottom side	100	QPSK 135RB_69	652400/3786	100%	0.076	0.01	18.10	18.50	1.096	0.084	22.1
Right side	100	QPSK 135RB_69	650000/3750	100%	0.484	0.17	18.08	18.50	1.102	0.533	22.1
Right side	100	QPSK 135RB_69	654800/3822	100%	0.467	0.12	18.04	18.50	1.112	0.519	22.1
Right side	100	QPSK 135RB_69	657200/3858	100%	0.470	0.00	18.04	18.50	1.112	0.523	22.1
Right side	100	QPSK 135RB_69	659600/3894	100%	0.474	0.19	18.02	18.50	1.117	0.529	22.1
Right side	100	QPSK 135RB_69	662000/3930	100%	0.477	0.17	17.95	18.50	1.135	0.541	22.1
Right side with Battery2	100	QPSK 135RB_69	652400/3786	100%	0.564	0.03	18.10	18.50	1.096	0.618	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Right side	100	QPSK 270RB_0	650000/3750	100%	0.484	0.15	17.95	18.50	1.135	0.549	22.1
ANT2 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_1	650000/3750	100%	0.074	0.00	25.13	25.50	1.089	0.080	22.1
Left tilted	100	QPSK 1RB_1	650000/3750	100%	0.007	0.00	25.13	25.50	1.089	0.007	22.1
Right cheek	100	QPSK 1RB_1	650000/3750	100%	0.016	0.00	25.13	25.50	1.089	0.018	22.1
Right tilted	100	QPSK 1RB_1	650000/3750	100%	0.000	0.00	25.13	25.50	1.089	0.000	22.1
Left cheek with Battery2	100	QPSK 1RB_1	650000/3750	100%	0.071	0.00	25.13	25.50	1.089	0.077	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	650000/3750	100%	0.022	0.00	24.93	25.50	1.140	0.025	22.1
Left tilted	100	QPSK 135RB_69	650000/3750	100%	0.000	0.00	24.93	25.50	1.140	0.000	22.1
Right cheek	100	QPSK 135RB_69	650000/3750	100%	0.019	0.00	24.93	25.50	1.140	0.022	22.1
Right tilted	100	QPSK 135RB_69	650000/3750	100%	0.000	0.00	24.93	25.50	1.140	0.000	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_1	650000/3750	100%	0.035	0.04	18.16	18.50	1.081	0.038	22.1
Back side	100	QPSK 1RB_1	650000/3750	100%	0.053	0.01	18.16	18.50	1.081	0.057	22.1
Back side with Battery2	100	QPSK 1RB_1	650000/3750	100%	0.052	0.04	18.16	18.50	1.081	0.056	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	650000/3750	100%	0.034	0.04	18.10	18.50	1.096	0.038	22.1
Back side	100	QPSK 135RB_69	650000/3750	100%	0.053	0.01	18.10	18.50	1.096	0.058	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_1	650000/3750	100%	0.069	-0.15	18.16	18.50	1.081	0.074	22.1
Back side	100	QPSK 1RB_1	650000/3750	100%	0.102	-0.12	18.16	18.50	1.081	0.110	22.1
Left side	100	QPSK 1RB_1	650000/3750	100%	0.398	0.17	18.16	18.50	1.081	0.430	22.1
Bottom side	100	QPSK 1RB_1	650000/3750	100%	0.091	-0.12	18.16	18.50	1.081	0.099	22.1
Left side	100	QPSK 1RB_137	652400/3786	100%	0.143	0.05	17.89	18.50	1.151	0.165	22.1
Left side	100	QPSK 1RB_137	654800/3822	100%	0.146	-0.04	17.72	18.50	1.197	0.175	22.1
Left side	100	QPSK 1RB_137	657200/3858	100%	0.151	-0.13	17.80	18.50	1.175	0.177	22.1
Left side	100	QPSK 1RB_137	659600/3894	100%	0.143	0.13	17.89	18.50	1.151	0.165	22.1
Left side	100	QPSK 1RB_137	662000/3930	100%	0.144	0.07	17.89	18.50	1.151	0.166	22.1
Left side with Battery2	100	QPSK 1RB_1	650000/3750	100%	0.385	0.05	18.16	18.50	1.081	0.416	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	650000/3750	100%	0.040	-0.15	18.10	18.50	1.096	0.043	22.1
Back side	100	QPSK 135RB_69	650000/3750	100%	0.075	-0.12	18.10	18.50	1.096	0.082	22.1



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Left side	100	QPSK 135RB_69	650000/3750	100%	0.192	0.20	18.10	18.50	1.096	0.211	22.1
Bottom side	100	QPSK 135RB_69	650000/3750	100%	0.090	0.00	18.10	18.50	1.096	0.099	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Left side	100	QPSK 270RB_0	652400/3786	100%	0.172	-0.1	17.89	18.50	1.151	0.198	22.1
ANT3 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_137	657200/3858	100%	0.133	0.12	24.36	25.00	1.159	0.154	22.1
Left tilted	100	QPSK 1RB_137	657200/3858	100%	0.086	0.06	24.36	25.00	1.159	0.100	22.1
Right cheek	100	QPSK 1RB_137	657200/3858	100%	0.373	-0.04	24.36	25.00	1.159	0.432	22.1
Right tilted	100	QPSK 1RB_137	657200/3858	100%	0.279	0.10	24.36	25.00	1.159	0.323	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	100%	0.327	0.04	24.04	25.00	1.247	0.408	22.1
Right cheek	100	QPSK 1RB_137	652400/3786	100%	0.333	0.08	24.12	25.00	1.225	0.408	22.1
Right cheek	100	QPSK 1RB_137	654800/3822	100%	0.315	0.05	24.20	25.00	1.202	0.379	22.1
Right cheek	100	QPSK 1RB_137	659600/3894	100%	0.320	0.17	24.36	25.00	1.159	0.371	22.1
Right cheek	100	QPSK 1RB_137	662000/3930	100%	0.322	0.14	24.35	25.00	1.161	0.374	22.1
Right cheek with Battery2	100	QPSK 1RB_137	657200/3858	100%	0.370	0.03	24.36	25.00	1.159	0.429	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	662000/3930	100%	0.107	0.03	24.30	25.00	1.175	0.126	22.1
Left tilted	100	QPSK 135RB_69	662000/3930	100%	0.063	0.09	24.30	25.00	1.175	0.074	22.1
Right cheek	100	QPSK 135RB_69	662000/3930	100%	0.199	-0.07	24.30	25.00	1.175	0.234	22.1
Right tilted	100	QPSK 135RB_69	662000/3930	100%	0.197	0.04	24.30	25.00	1.175	0.231	22.1
Head Test data(100%RB)											
Right cheek	100	QPSK 270RB_0	659600/3894	100%	0.320	0.04	23.24	24.00	1.191	0.381	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_137	657200/3858	100%	0.055	0.04	24.36	25.00	1.159	0.063	22.1
Back side	100	QPSK 1RB_137	657200/3858	100%	0.462	-0.07	24.36	25.00	1.159	0.535	22.1
Back side	100	QPSK 1RB_137	650000/3750	100%	0.425	-0.10	24.04	25.00	1.247	0.530	22.1
Back side	100	QPSK 1RB_137	652400/3786	100%	0.434	-0.15	24.12	25.00	1.225	0.531	22.1
Back side	100	QPSK 1RB_137	654800/3822	100%	0.410	0.02	24.20	25.00	1.202	0.493	22.1
Back side	100	QPSK 1RB_137	659600/3894	100%	0.416	-0.07	24.36	25.00	1.159	0.482	22.1
Back side	100	QPSK 1RB_137	662000/3930	100%	0.419	-0.10	24.35	25.00	1.161	0.487	22.1
Back side with Battery2	100	QPSK 1RB_137	657200/3858	100%	0.458	0.05	24.36	25.00	1.159	0.531	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	662000/3930	100%	0.068	0.11	24.30	25.00	1.175	0.080	22.1
Back side	100	QPSK 135RB_69	662000/3930	100%	0.417	-0.14	24.30	25.00	1.175	0.490	22.1
Back side	100	QPSK 135RB_69	650000/3750	100%	0.341	-0.18	24.21	25.00	1.199	0.409	22.1
Back side	100	QPSK 135RB_69	652400/3786	100%	0.348	-0.16	24.20	25.00	1.202	0.418	22.1
Back side	100	QPSK 135RB_69	654800/3822	100%	0.329	0.12	24.23	25.00	1.194	0.393	22.1
Back side	100	QPSK 135RB_69	657200/3858	100%	0.331	0.18	24.36	25.00	1.159	0.384	22.1
Back side	100	QPSK 135RB_69	659600/3894	100%	0.334	0.16	24.30	25.00	1.175	0.392	22.1
Body Worn Test data(Separate 15mm 100%RB)											
Back side	100	QPSK 270RB_0	659600/3894	100%	0.055	0.06	23.24	24.00	1.191	0.066	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	657200/3858	100%	0.029	0.08	17.42	18.00	1.143	0.033	22.1
Back side	100	QPSK 1RB_137	657200/3858	100%	0.189	-0.19	17.42	18.00	1.143	0.216	22.1
Left side	100	QPSK 1RB_137	657200/3858	100%	0.142	0.15	17.42	18.00	1.143	0.162	22.1
Top side	100	QPSK 1RB_137	657200/3858	100%	0.024	0.19	17.42	18.00	1.143	0.027	22.1
Back side with Battery2	100	QPSK 1RB_137	657200/3858	100%	0.172	0.06	17.42	18.00	1.143	0.197	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	662000/3930	100%	0.025	0.10	17.41	18.00	1.146	0.029	22.1



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Back side	100	QPSK 135RB_69	662000/3930	100%	0.166	-0.11	17.41	18.00	1.146	0.190	22.1
Left side	100	QPSK 135RB_69	662000/3930	100%	0.122	-0.05	17.41	18.00	1.146	0.140	22.1
Top side	100	QPSK 135RB_69	662000/3930	100%	0.024	-0.04	17.41	18.00	1.146	0.027	22.1
ANT5 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)	Liquid Temp.
Head Test data(1RB)											
Left cheek	100	QPSK 1RB_137	650000/3750	100%	0.695	0.08	19.02	19.50	1.117	0.776	22.1
Left tilted	100	QPSK 1RB_137	650000/3750	100%	0.591	0.04	19.02	19.50	1.117	0.660	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	100%	0.342	-0.12	19.02	19.50	1.117	0.382	22.1
Right tilted	100	QPSK 1RB_137	650000/3750	100%	0.357	0.06	19.02	19.50	1.117	0.399	22.1
Left cheek	100	QPSK 1RB_137	652400/3786	100%	0.606	0.16	18.66	19.50	1.213	0.735	22.1
Left cheek	100	QPSK 1RB_137	654800/3822	100%	0.617	0.07	18.93	19.50	1.140	0.704	22.1
Left cheek	100	QPSK 1RB_137	657200/3858	100%	0.578	0.13	18.86	19.50	1.159	0.670	22.1
Left cheek	100	QPSK 1RB_137	659600/3894	100%	0.582	0.11	18.66	19.50	1.213	0.706	22.1
Left cheek	100	QPSK 1RB_137	662000/3930	100%	0.586	0.04	18.77	19.50	1.183	0.693	22.1
Left tilted	100	QPSK 1RB_137	652400/3786	100%	0.602	0.03	18.66	19.50	1.213	0.730	22.1
Left tilted	100	QPSK 1RB_137	654800/3822	100%	0.570	0.19	18.93	19.50	1.140	0.650	22.1
Left tilted	100	QPSK 1RB_137	657200/3858	100%	0.574	-0.06	18.86	19.50	1.159	0.665	22.1
Left tilted	100	QPSK 1RB_137	659600/3894	100%	0.578	0.19	18.66	19.50	1.213	0.701	22.1
Left tilted	100	QPSK 1RB_137	662000/3930	100%	0.582	0.19	18.77	19.50	1.183	0.689	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135RB_69	650000/3750	100%	0.770	-0.12	19.05	19.50	1.109	0.854	22.1
Left cheek	100	QPSK 135RB_69	652400/3786	100%	0.674	0.03	18.82	19.50	1.169	0.788	22.1
Left cheek	100	QPSK 135RB_69	654800/3822	100%	0.596	0.17	18.85	19.50	1.161	0.692	22.1
Left cheek	100	QPSK 135RB_69	657200/3858	100%	0.573	0.19	19.04	19.50	1.112	0.637	22.1
Left cheek	100	QPSK 135RB_69	659600/3894	100%	0.564	0.18	18.99	19.50	1.125	0.634	22.1
Left cheek	100	QPSK 135RB_69	662000/3930	100%	0.759	0.19	19.04	19.50	1.112	0.844	22.1
Left tilted	100	QPSK 135RB_69	650000/3750	100%	0.611	-0.15	19.05	19.50	1.109	0.678	22.1
Left tilted	100	QPSK 135RB_69	652400/3786	100%	0.559	0.08	18.82	19.50	1.169	0.654	22.1
Left tilted	100	QPSK 135RB_69	654800/3822	100%	0.529	0.01	18.85	19.50	1.161	0.614	22.1
Left tilted	100	QPSK 135RB_69	657200/3858	100%	0.533	-0.01	19.04	19.50	1.112	0.593	22.1
Left tilted	100	QPSK 135RB_69	659600/3894	100%	0.537	0.07	18.99	19.50	1.125	0.604	22.1
Left tilted	100	QPSK 135RB_69	662000/3930	100%	0.540	0.01	19.04	19.50	1.112	0.600	22.1
Right cheek	100	QPSK 135RB_69	650000/3750	100%	0.358	-0.01	19.05	19.50	1.109	0.397	22.1
Right tilted	100	QPSK 135RB_69	650000/3750	100%	0.352	0.17	19.05	19.50	1.109	0.390	22.1
Left cheek with Battery2	100	QPSK 135RB_69	650000/3750	100%	0.745	0.07	19.05	19.50	1.109	0.826	22.1
Head Test data(100%RB)											
Left cheek	100	QPSK 270RB_0	659600/3894	100%	0.581	0.12	18.86	19.50	1.159	0.673	22.1
Left tilted	100	QPSK 270RB_0	659600/3894	100%	0.572	0.02	18.86	19.50	1.159	0.663	22.1
Body Worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1RB_137	650000/3750	100%	0.233	0.19	24.99	25.50	1.125	0.262	22.1
Back side	100	QPSK 1RB_137	650000/3750	100%	0.314	0.08	24.99	25.50	1.125	0.353	22.1
Back side with Battery2	100	QPSK 1RB_137	650000/3750	100%	0.304	-0.05	24.99	25.50	1.125	0.342	22.1
Body Worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135RB_69	650000/3750	100%	0.214	-0.02	24.98	25.50	1.127	0.241	22.1
Back side	100	QPSK 135RB_69	650000/3750	100%	0.219	-0.16	24.98	25.50	1.127	0.247	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1RB_137	650000/3750	100%	0.155	0.00	19.02	19.50	1.117	0.173	22.1
Back side	100	QPSK 1RB_137	650000/3750	100%	0.232	0.00	19.02	19.50	1.117	0.259	22.1
Right side	100	QPSK 1RB_137	650000/3750	100%	0.115	-0.18	19.02	19.50	1.117	0.128	22.1
Top side	100	QPSK 1RB_137	650000/3750	100%	0.205	-0.08	19.02	19.50	1.117	0.229	22.1



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Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_69	650000/3750	100%	0.155	0	19.05	19.50	1.109	0.172	22.1
Back side	100	QPSK 135RB_69	650000/3750	100%	0.235	-0.03	19.05	19.50	1.109	0.261	22.1
Right side	100	QPSK 135RB_69	650000/3750	100%	0.111	0.05	19.05	19.50	1.109	0.123	22.1
Top side	100	QPSK 135RB_69	650000/3750	100%	0.200	0.2	19.05	19.50	1.109	0.222	22.1
Back side with Battery2	100	QPSK 135RB_69	650000/3750	100%	0.227	0.04	19.05	19.50	1.109	0.252	22.1

Table 24: SAR of 5G NR n77



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8.3.15 SAR Result of WIFI 2.4G

Ant6(chain0) SAR 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(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.46%	1.005	0.220	0.06	14.40	15.50	1.288	0.285	22
Left tilted	802.11b	6/2437	99.46%	1.005	0.206	0.16	14.40	15.50	1.288	0.267	22
Right cheek	802.11b	6/2437	99.46%	1.005	0.094	0.02	14.40	15.50	1.288	0.122	22
Right tilted	802.11b	6/2437	99.46%	1.005	0.086	0.01	14.40	15.50	1.288	0.111	22
Left cheek with Battery2	802.11b	6/2437	99.46%	1.005	0.208	-0.03	14.40	15.50	1.288	0.269	22
Body worn Test data (Separate 15mm)											
Front side	802.11b	6/2437	99.46%	1.005	0.032	-0.03	14.40	15.50	1.288	0.041	22
Back side	802.11b	6/2437	99.46%	1.005	0.040	0.14	14.40	15.50	1.288	0.052	22
Back side with Battery2	802.11b	6/2437	99.46%	1.005	0.038	0.05	14.40	15.50	1.288	0.049	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.46%	1.005	0.051	0.03	14.40	15.50	1.288	0.066	22
Back side	802.11b	6/2437	99.46%	1.005	0.078	0.04	14.40	15.50	1.288	0.101	22
Right side	802.11b	6/2437	99.46%	1.005	0.061	0.06	14.40	15.50	1.288	0.079	22
Top side	802.11b	6/2437	99.46%	1.005	0.054	-0.14	14.40	15.50	1.288	0.070	22
Back side with Battery2	802.11b	6/2437	99.46%	1.005	0.073	0.05	14.40	15.50	1.288	0.095	22
Ant7(chain1) SAR 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(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.49%	1.005	0.200	0.06	14.34	15.50	1.306	0.263	22
Left tilted	802.11b	6/2437	99.49%	1.005	0.068	0.15	14.34	15.50	1.306	0.089	22
Right cheek	802.11b	6/2437	99.49%	1.005	0.079	0.04	14.34	15.50	1.306	0.104	22
Right tilted	802.11b	6/2437	99.49%	1.005	0.051	0.16	14.34	15.50	1.306	0.067	22
Left cheek with Battery2	802.11b	6/2437	99.49%	1.005	0.189	-0.02	14.34	15.50	1.306	0.248	22
Body worn Test data (Separate 15mm)											
Front side	802.11b	6/2437	99.49%	1.005	0.022	0.01	14.34	15.50	1.306	0.029	22
Back side	802.11b	6/2437	99.49%	1.005	0.033	-0.01	14.34	15.50	1.306	0.044	22
Back side with Battery2	802.11b	6/2437	99.49%	1.005	0.032	-0.08	14.34	15.50	1.306	0.041	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.49%	1.005	0.043	0.00	14.34	15.50	1.306	0.056	22
Back side	802.11b	6/2437	99.49%	1.005	0.070	0.18	14.34	15.50	1.306	0.091	22
Right side	802.11b	6/2437	99.49%	1.005	0.054	0.03	14.34	15.50	1.306	0.071	22
Top side	802.11b	6/2437	99.49%	1.005	0.017	-0.04	14.34	15.50	1.306	0.022	22
Back side with Battery2	802.11b	6/2437	99.49%	1.005	0.066	0.19	14.34	15.50	1.306	0.086	22
MIMO SAR 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(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.49%	1.005	0.427	0.02	17.38	18.50	1.294	0.555	22
Left tilted	802.11b	6/2437	99.49%	1.005	0.195	0.02	17.38	18.50	1.294	0.254	22
Right cheek	802.11b	6/2437	99.49%	1.005	0.166	0.04	17.38	18.50	1.294	0.216	22
Right tilted	802.11b	6/2437	99.49%	1.005	0.076	0.04	17.38	18.50	1.294	0.099	22
Left cheek with Battery2	802.11b	6/2437	99.49%	1.005	0.403	-0.07	17.38	18.50	1.294	0.524	22



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Body worn Test data (Separate 15mm)											
Front side	802.11b	6/2437	99.49%	1.005	0.049	0.07	17.38	18.50	1.294	0.064	22
Back side	802.11b	6/2437	99.49%	1.005	0.067	0.14	17.38	18.50	1.294	0.087	22
Back side with Battery2	802.11b	6/2437	99.49%	1.005	0.063	0.15	17.38	18.50	1.294	0.082	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.49%	1.005	0.093	-0.03	17.38	18.50	1.294	0.121	22
Back side	802.11b	6/2437	99.49%	1.005	0.116	0.12	17.38	18.50	1.294	0.151	22
Right side	802.11b	6/2437	99.49%	1.005	0.108	0.12	17.38	18.50	1.294	0.140	22
Top side	802.11b	6/2437	99.49%	1.005	0.046	0.04	17.38	18.50	1.294	0.060	22
Back side with Battery2	802.11b	6/2437	99.49%	1.005	0.110	0.19	17.38	18.50	1.294	0.143	22

Table 25: SAR of WIFI 2.4G

Mode	Tune-up (dBm)	Tune-up (mw)	Highest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test
Head					
802.11b	18.50	70.79	0.555	/	Yes
802.11g	18.50	70.79	/	0.555	No
802.11n HT20	18.50	70.79	/	0.555	No
802.11ax HT20	18.50	70.79	/	0.555	No
Body worn					
802.11b	18.50	70.79	0.087	/	Yes
802.11g	22.50	177.83	/	0.219	No
802.11n HT20	21.50	141.25	/	0.174	No
802.11ax HT20	20.50	112.20	/	0.138	No
Hotspot					
802.11b	18.50	70.79	0.151	/	Yes
802.11g	22.50	177.83	/	0.379	No
802.11n HT20	21.50	141.25	/	0.301	No
802.11ax HT20	20.50	112.20	/	0.239	No



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8.3.16 SAR Result of WIFI 5G

Ant6(chain0) SAR 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(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	64/5320	96.59%	1.035	0.463	0.04	16.10	16.50	1.096	0.526	22.2
Left tilted	802.11a	64/5320	96.59%	1.035	0.794	0.09	16.10	16.50	1.096	0.901	22.2
Left tilted	802.11a	52/5260	96.59%	1.035	0.674	0.17	15.87	16.50	1.156	0.807	22.2
Right cheek	802.11a	64/5320	96.59%	1.035	0.357	-0.03	16.10	16.50	1.096	0.405	22.2
Right tilted	802.11a	64/5320	96.59%	1.035	0.402	0.02	16.10	16.50	1.096	0.456	22.2
Left tilted with Battery2	802.11a	64/5320	96.59%	1.035	0.777	0.04	16.10	16.50	1.096	0.882	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	140/5700	96.59%	1.035	0.411	-0.13	16.39	16.50	1.026	0.436	22.2
Left tilted	802.11a	140/5700	96.59%	1.035	0.287	0.14	16.39	16.50	1.026	0.305	22.2
Right cheek	802.11a	140/5700	96.59%	1.035	0.233	-0.05	16.39	16.50	1.026	0.247	22.2
Right tilted	802.11a	140/5700	96.59%	1.035	0.316	0.07	16.39	16.50	1.026	0.336	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	161/5805	96.59%	1.035	0.446	0.06	17.80	19.00	1.318	0.609	22.2
Left tilted	802.11a	161/5805	96.59%	1.035	0.386	-0.15	17.80	19.00	1.318	0.527	22.2
Right cheek	802.11a	161/5805	96.59%	1.035	0.350	-0.09	17.80	19.00	1.318	0.478	22.2
Right tilted	802.11a	161/5805	96.59%	1.035	0.310	-0.18	17.80	19.00	1.318	0.423	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	64/5320	96.59%	1.035	0.092	0.00	16.46	17.50	1.271	0.121	22.2
Back side	802.11a	64/5320	96.59%	1.035	0.186	0.00	16.46	17.50	1.271	0.245	22.2
Back side with Battery2	802.11a	64/5320	96.59%	1.035	0.183	0.03	16.46	17.50	1.271	0.241	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	140/5700	96.59%	1.035	0.057	0.14	17.42	17.50	1.019	0.060	22.2
Back side	802.11a	140/5700	96.59%	1.035	0.137	-0.11	17.42	17.50	1.019	0.144	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	161/5805	96.59%	1.035	0.069	0.18	18.26	19.00	1.186	0.085	22.2
Back side	802.11a	161/5805	96.59%	1.035	0.178	-0.15	18.26	19.00	1.186	0.219	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	96.59%	1.035	0.108	-0.13	16.51	17.50	1.256	0.140	22.2
Back side	802.11a	48/5240	96.59%	1.035	0.192	0.16	16.51	17.50	1.256	0.250	22.2
Right side	802.11a	48/5240	96.59%	1.035	0.007	0.03	16.51	17.50	1.256	0.008	22.2
Top side	802.11a	48/5240	96.59%	1.035	0.148	0.07	16.51	17.50	1.256	0.192	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	161/5805	96.59%	1.035	0.097	0.00	18.26	19.00	1.186	0.119	22.2
Back side	802.11a	161/5805	96.59%	1.035	0.248	0.00	18.26	19.00	1.186	0.304	22.2
Right side	802.11a	161/5805	96.59%	1.035	0.008	0.03	18.26	19.00	1.186	0.010	22.2
Top side	802.11a	161/5805	96.59%	1.035	0.185	0.00	18.26	19.00	1.186	0.227	22.2
Back side with Battery2	802.11a	161/5805	96.59%	1.035	0.239	0.04	18.26	19.00	1.186	0.293	22.2
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(W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	64/5320	96.59%	1.035	0.303	0.00	16.46	17.50	1.271	0.399	22.2
Back side	802.11a	64/5320	96.59%	1.035	0.515	0.18	16.46	17.50	1.271	0.677	22.2
Right side	802.11a	64/5320	96.59%	1.035	0.243	0.12	16.46	17.50	1.271	0.320	22.2
Top side	802.11a	64/5320	96.59%	1.035	1.070	-0.11	16.46	17.50	1.271	1.408	22.2



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Top side with Battery2	802.11a	64/5320	96.59%	1.035	1.050	-0.11	16.46	17.50	1.271	1.381	22.2
Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	140/5700	96.59%	1.035	0.149	0.00	17.42	17.50	1.019	0.157	22.2
Back side	802.11a	140/5700	96.59%	1.035	0.282	0.00	17.42	17.50	1.019	0.297	22.2
Right side	802.11a	140/5700	96.59%	1.035	0.135	0.17	17.42	17.50	1.019	0.142	22.2
Top side	802.11a	140/5700	96.59%	1.035	0.476	-0.15	17.42	17.50	1.019	0.502	22.2
Ant6(chain0) Simultaneous Transmission SAR											
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(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	64/5320	96.59%	1.035	0.463	0.04	16.10	14.50	0.692	0.332	22.2
Left tilted	802.11a	64/5320	96.59%	1.035	0.794	0.09	16.10	14.50	0.692	0.569	22.2
Right cheek	802.11a	64/5320	96.59%	1.035	0.357	-0.03	16.10	14.50	0.692	0.256	22.2
Right tilted	802.11a	64/5320	96.59%	1.035	0.402	0.02	16.10	14.50	0.692	0.288	22.2
Left tilted with Battery2	802.11a	64/5320	96.59%	1.035	0.777	0.04	16.10	14.50	0.692	0.557	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	140/5700	96.59%	1.035	0.411	-0.13	16.39	14.50	0.647	0.275	22.2
Left tilted	802.11a	140/5700	96.59%	1.035	0.287	0.14	16.39	14.50	0.647	0.192	22.2
Right cheek	802.11a	140/5700	96.59%	1.035	0.233	-0.05	16.39	14.50	0.647	0.156	22.2
Right tilted	802.11a	140/5700	96.59%	1.035	0.316	0.07	16.39	14.50	0.647	0.212	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	161/5805	96.59%	1.035	0.446	0.06	17.80	16.50	0.741	0.342	22.2
Left tilted	802.11a	161/5805	96.59%	1.035	0.386	-0.15	17.80	16.50	0.741	0.296	22.2
Right cheek	802.11a	161/5805	96.59%	1.035	0.350	-0.09	17.80	16.50	0.741	0.269	22.2
Right tilted	802.11a	161/5805	96.59%	1.035	0.310	-0.18	17.80	16.50	0.741	0.238	22.2
Ant7(chain1) SAR 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(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	52/5260	96.68%	1.034	0.249	0.03	16.08	16.50	1.102	0.284	22.2
Left tilted	802.11a	52/5260	96.68%	1.034	0.054	0.03	16.08	16.50	1.102	0.062	22.2
Right cheek	802.11a	52/5260	96.68%	1.034	0.002	0.01	16.08	16.50	1.102	0.002	22.2
Right tilted	802.11a	52/5260	96.68%	1.034	0.043	-0.06	16.08	16.50	1.102	0.049	22.2
Left cheek with Battery2	802.11a	52/5260	96.68%	1.034	0.244	0.04	16.08	16.50	1.102	0.278	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	140/5700	96.68%	1.034	0.190	0.11	16.38	16.50	1.028	0.202	22.2
Left tilted	802.11a	140/5700	96.68%	1.034	0.047	0.17	16.38	16.50	1.028	0.050	22.2
Right cheek	802.11a	140/5700	96.68%	1.034	0.081	0.00	16.38	16.50	1.028	0.087	22.2
Right tilted	802.11a	140/5700	96.68%	1.034	0.026	0.00	16.38	16.50	1.028	0.028	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	161/5805	96.68%	1.034	0.196	0.16	17.90	19.00	1.288	0.261	22.2
Left tilted	802.11a	161/5805	96.68%	1.034	0.045	0.01	17.90	19.00	1.288	0.060	22.2
Right cheek	802.11a	161/5805	96.68%	1.034	0.072	0.00	17.90	19.00	1.288	0.096	22.2
Right tilted	802.11a	161/5805	96.68%	1.034	0.050	0.15	17.90	19.00	1.288	0.066	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	96.68%	1.034	0.006	0.00	16.42	17.50	1.282	0.008	22.2
Back side	802.11a	52/5260	96.68%	1.034	0.229	0.00	16.42	17.50	1.282	0.304	22.2
Back side with Battery2	802.11a	52/5260	96.68%	1.034	0.224	0.01	16.42	17.50	1.282	0.297	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	140/5700	96.68%	1.034	0.037	-0.05	17.42	17.50	1.019	0.039	22.2



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Back side	802.11a	140/5700	96.68%	1.034	0.104	-0.06	17.42	17.50	1.019	0.110	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	161/5805	96.68%	1.034	0.034	-0.07	18.42	19.00	1.143	0.040	22.2
Back side	802.11a	161/5805	96.68%	1.034	0.147	0	18.42	19.00	1.143	0.174	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	96.68%	1.034	0.071	-0.08	16.51	17.50	1.256	0.092	22.2
Back side	802.11a	48/5240	96.68%	1.034	0.198	0.13	16.51	17.50	1.256	0.257	22.2
Right side	802.11a	48/5240	96.68%	1.034	0.430	-0.16	16.51	17.50	1.256	0.559	22.2
Top side	802.11a	48/5240	96.68%	1.034	0.027	0.13	16.51	17.50	1.256	0.035	22.2
Right side with Battery2	802.11a	48/5240	96.68%	1.034	0.421	0.05	16.51	17.50	1.256	0.547	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	161/5805	96.68%	1.034	0.052	-0.20	18.42	19.00	1.143	0.061	22.2
Back side	802.11a	161/5805	96.68%	1.034	0.142	0.14	18.42	19.00	1.143	0.168	22.2
Right side	802.11a	161/5805	96.68%	1.034	0.245	-0.12	18.42	19.00	1.143	0.290	22.2
Top side	802.11a	161/5805	96.68%	1.034	0.052	-0.13	18.42	19.00	1.143	0.062	22.2
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(W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	96.68%	1.034	0.150	0.19	16.42	17.50	1.282	0.199	22.2
Back side	802.11a	52/5260	96.68%	1.034	0.399	0.16	16.42	17.50	1.282	0.529	22.2
Right side	802.11a	52/5260	96.68%	1.034	0.942	0.10	16.42	17.50	1.282	1.249	22.2
Top side	802.11a	52/5260	96.68%	1.034	0.046	0.13	16.42	17.50	1.282	0.061	22.2
Right side with Battery2	802.11a	52/5260	96.68%	1.034	0.922	0.12	16.42	17.50	1.282	1.223	22.2
Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	140/5700	96.68%	1.034	0.058	-0.04	17.42	17.50	1.019	0.061	22.2
Back side	802.11a	140/5700	96.68%	1.034	0.155	0.18	17.42	17.50	1.019	0.163	22.2
Right side	802.11a	140/5700	96.68%	1.034	0.290	-0.04	17.42	17.50	1.019	0.306	22.2
Top side	802.11a	140/5700	96.68%	1.034	0.043	-0.2	17.42	17.50	1.019	0.046	22.2
MIMO SAR 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(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	52/5260	96.68%	1.034	0.486	0.05	18.99	19.50	1.125	0.565	22.2
Left tilted	802.11a	52/5260	96.68%	1.034	0.892	-0.02	18.99	19.50	1.125	1.038	22.2
Left tilted-Repeat	802.11a	52/5260	96.68%	1.034	0.885	0.03	18.99	19.50	1.125	1.030	22.2
Left tilted	802.11a	64/5320	96.68%	1.034	0.594	0.17	18.74	19.50	1.191	0.732	22.2
Right cheek	802.11a	52/5260	96.68%	1.034	0.366	0.13	18.99	19.50	1.125	0.426	22.2
Right tilted	802.11a	52/5260	96.68%	1.034	0.456	0.09	18.99	19.50	1.125	0.530	22.2
Left tilted with Battery2	802.11a	52/5260	96.68%	1.034	0.873	0.01	18.99	19.50	1.125	1.016	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	140/5700	96.68%	1.034	0.402	0.17	19.40	19.50	1.023	0.426	22.2
Left tilted	802.11a	140/5700	96.68%	1.034	0.76	0.20	19.40	19.50	1.023	0.804	22.2
Left tilted	802.11a	108/5540	96.68%	1.034	0.728	0.20	19.37	19.50	1.030	0.776	22.2
Right cheek	802.11a	140/5700	96.68%	1.034	0.381	0.05	19.40	19.50	1.023	0.403	22.2
Right tilted	802.11a	140/5700	96.68%	1.034	0.446	0.03	19.40	19.50	1.023	0.472	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	161/5805	96.68%	1.034	0.489	0.04	20.86	22.00	1.300	0.658	22.2
Left tilted	802.11a	161/5805	96.68%	1.034	0.425	-0.04	20.86	22.00	1.300	0.572	22.2
Right cheek	802.11a	161/5805	96.68%	1.034	0.418	-0.04	20.86	22.00	1.300	0.562	22.2
Right tilted	802.11a	161/5805	96.68%	1.034	0.443	-0.03	20.86	22.00	1.300	0.596	22.2



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Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	96.68%	1.034	0.007	-0.18	19.43	20.50	1.279	0.009	22.2
Back side	802.11a	52/5260	96.68%	1.034	0.333	0.01	19.43	20.50	1.279	0.441	22.2
Back side with Battery2	802.11a	52/5260	96.68%	1.034	0.322	-0.03	19.43	20.50	1.279	0.426	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	140/5700	96.68%	1.034	0.009	0.12	20.43	20.50	1.016	0.009	22.2
Back side	802.11a	140/5700	96.68%	1.034	0.333	0.12	20.43	20.50	1.016	0.350	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	161/5805	96.68%	1.034	0.120	0.140	21.35	22.00	1.161	0.144	22.2
Back side	802.11a	161/5805	96.68%	1.034	0.229	0.120	21.35	22.00	1.161	0.275	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	96.68%	1.034	0.109	-0.12	19.52	20.50	1.253	0.141	22.2
Back side	802.11a	48/5240	96.68%	1.034	0.229	0.03	19.52	20.50	1.253	0.297	22.2
Right side	802.11a	48/5240	96.68%	1.034	0.326	-0.14	19.52	20.50	1.253	0.423	22.2
Top side	802.11a	48/5240	96.68%	1.034	0.252	-0.12	19.52	20.50	1.253	0.327	22.2
Right side with Battery2	802.11a	48/5240	96.68%	1.034	0.319	0.04	19.52	20.50	1.253	0.414	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	161/5805	96.68%	1.034	0.112	0.16	21.35	22.00	1.161	0.135	22.2
Back side	802.11a	161/5805	96.68%	1.034	0.236	-0.13	21.35	22.00	1.161	0.284	22.2
Right side	802.11a	161/5805	96.68%	1.034	0.288	-0.19	21.35	22.00	1.161	0.346	22.2
Top side	802.11a	161/5805	96.68%	1.034	0.304	-0.03	21.35	22.00	1.161	0.365	22.2
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(W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	96.68%	1.034	0.253	-0.06	19.43	20.50	1.279	0.335	22.2
Back side	802.11a	52/5260	96.68%	1.034	0.600	0.07	19.43	20.50	1.279	0.794	22.2
Right side	802.11a	52/5260	96.68%	1.034	0.987	-0.09	19.43	20.50	1.279	1.306	22.2
Top side	802.11a	52/5260	96.68%	1.034	1.360	-0.18	19.43	20.50	1.279	1.800	22.2
Top side with Battery2	802.11a	52/5260	96.68%	1.034	1.310	0.12	19.43	20.50	1.279	1.734	22.2
Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	140/5700	96.68%	1.034	0.161	-0.08	20.43	20.50	1.016	0.169	22.2
Back side	802.11a	140/5700	96.68%	1.034	0.390	0.1	20.43	20.50	1.016	0.410	22.2
Right side	802.11a	140/5700	96.68%	1.034	0.322	-0.02	20.43	20.50	1.016	0.338	22.2
Top side	802.11a	140/5700	96.68%	1.034	0.486	-0.05	20.43	20.50	1.016	0.511	22.2
MIMO Simultaneous Transmission SAR											
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(W/kg)	Liquid Temp.
Left cheek	802.11a	52/5260	96.68%	1.034	0.486	0.05	18.99	17.50	0.710	0.357	22.2
Left tilted	802.11a	52/5260	96.68%	1.034	0.892	-0.02	18.99	17.50	0.710	0.655	22.2
Right cheek	802.11a	52/5260	96.68%	1.034	0.366	0.13	18.99	17.50	0.710	0.269	22.2
Right tilted	802.11a	52/5260	96.68%	1.034	0.456	0.09	18.99	17.50	0.710	0.335	22.2
Left tilted with Battery2	802.11a	52/5260	96.68%	1.034	0.873	0.01	18.99	17.50	0.710	0.641	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	140/5700	96.68%	1.034	0.402	0.17	19.40	17.50	0.646	0.268	22.2
Left tilted	802.11a	140/5700	96.68%	1.034	0.76	0.20	19.40	17.50	0.646	0.508	22.2
Right cheek	802.11a	140/5700	96.68%	1.034	0.381	0.05	19.40	17.50	0.646	0.254	22.2
Right tilted	802.11a	140/5700	96.68%	1.034	0.446	0.03	19.40	17.50	0.646	0.298	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	161/5805	96.68%	1.034	0.489	0.04	20.86	19.50	0.731	0.370	22.2
Left tilted	802.11a	161/5805	96.68%	1.034	0.425	-0.04	20.86	19.50	0.731	0.321	22.2



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Right cheek	802.11a	161/5805	96.68%	1.034	0.418	-0.04	20.86	19.50	0.731	0.316	22.2
Right tilted	802.11a	161/5805	96.68%	1.034	0.443	-0.03	20.86	19.50	0.731	0.335	22.2

Table 26: SAR of WIFI 5G

Mode	Tune-up (dBm)	Tune-up (mw)	Highest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test
Head					
802.11a	19.50	89.13	1.038	/	Yes
802.11n-HT20	19.50	89.13	/	1.038	No
802.11n-HT40	19.00	79.43	/	0.925	No
802.11ac-20M	19.50	89.13	/	1.038	No
802.11ac-40M	19.00	79.43	/	0.925	No
802.11ac-80M	19.00	79.43	/	0.925	No
802.11ax-20M	19.50	89.13	/	1.038	No
802.11ax-40M	19.00	79.43	/	0.925	No
802.11ax-80M	19.00	79.43	/	0.925	No
Body worn					
802.11a	20.50	112.20	0.441	/	Yes
802.11n-HT20	20.50	112.20	/	0.441	No
802.11n-HT40	20.00	100.00	/	0.393	No
802.11ac-20M	20.50	112.20	/	0.441	No
802.11ac-40M	20.00	100.00	/	0.393	No
802.11ac-80M	20.00	100.00	/	0.393	No
802.11ax-20M	20.50	112.20	/	0.441	No
802.11ax-40M	20.00	100.00	/	0.393	No
802.11ax-80M	20.00	100.00	/	0.393	No
Hotspot					
802.11a	17.50	56.23	0.559	/	Yes
802.11n-HT20	17.50	56.23	/	0.559	No
802.11n-HT40	17.00	50.12	/	0.498	No
802.11ac-20M	17.50	56.23	/	0.559	No
802.11ac-40M	17.00	50.12	/	0.498	No
802.11ac-80M	17.00	50.12	/	0.498	No
802.11ax-20M	17.50	56.23	/	0.559	No
802.11ax-40M	17.00	50.12	/	0.498	No
802.11ax-80M	17.00	50.12	/	0.498	No



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8.3.17 SAR Result of BT

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(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	76.73%	1.303	0.074	-0.19	12.68	13.50	1.208	0.106	22.0
Left tilted	DH5	39/2441	76.73%	1.303	0.067	-0.09	12.68	13.50	1.208	0.096	22.0
Right cheek	DH5	39/2441	76.73%	1.303	0.033	0.04	12.68	13.50	1.208	0.048	22.0
Right tilted	DH5	39/2441	76.73%	1.303	0.030	-0.01	12.68	13.50	1.208	0.043	22.0
Left cheek with Battery2	DH5	39/2441	76.73%	1.303	0.070	-0.03	12.68	13.50	1.208	0.100	22.0
Body worn Test data (Separate 15mm)											
Front side	DH5	39/2441	76.73%	1.303	0.013	0.12	12.68	13.50	1.208	0.015	22.0
Back side	DH5	39/2441	76.73%	1.303	0.018	-0.03	12.68	13.50	1.208	0.020	22.0
Back side with Battery2	DH5	39/2441	76.73%	1.303	0.017	-0.09	12.68	13.50	1.208	0.018	22.0
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.73%	1.303	0.024	0.02	12.68	13.50	1.208	0.027	22.0
Back side	DH5	39/2441	76.73%	1.303	0.029	-0.14	12.68	13.50	1.208	0.032	22.0
Right side	DH5	39/2441	76.73%	1.303	0.025	0.13	12.68	13.50	1.208	0.027	22.0
Top side	DH5	39/2441	76.73%	1.303	0.026	-0.12	12.68	13.50	1.208	0.029	22.0
Back side with Battery2	DH5	39/2441	76.73%	1.303	0.025	0.07	12.68	13.50	1.208	0.028	22.0

Table 27: SAR of BT



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

• Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN2.4GHz SISO/MIMO	Y	Y	Y	Y
2	WWAN + WLAN2.4GHz(chain0) + WLAN5GHz(chain1)	Y	Y	Y	Y
3	WWAN + Bluetooth + WLAN2.4GHz(chain1)	Y	Y	Y	Y
4	WWAN + Bluetooth + WLAN5GHz(chain0)	Y	Y	Y	Y
5	WWAN + Bluetooth + WLAN5GHz(chain1)	Y	Y	Y	Y
6	WWAN + Bluetooth + WLAN5GHz MIMO	Y	Y	Y	Y

Note:

- 1) The device does not support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant0	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM850	Left cheek	0.157	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.263	0.442	0.420	0.712	0.499	0.441	0.527	0.526	0.605	0.547	0.633	0.726
	Left tilted	0.069	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.165	0.336	0.158	0.323	0.638	0.131	0.724	0.254	0.734	0.227	0.820	0.398
	Right cheek	0.245	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.293	0.367	0.349	0.461	0.514	0.341	0.561	0.397	0.562	0.389	0.609	0.463
	Right tilted	0.071	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.114	0.182	0.138	0.170	0.359	0.137	0.406	0.181	0.402	0.180	0.449	0.248
GSM1900	Left cheek	0.087	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.193	0.372	0.350	0.642	0.429	0.371	0.457	0.456	0.535	0.477	0.563	0.656
	Left tilted	0.079	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.175	0.346	0.168	0.333	0.648	0.141	0.734	0.264	0.744	0.237	0.830	0.408
	Right cheek	0.106	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.154	0.228	0.210	0.322	0.375	0.202	0.422	0.258	0.423	0.250	0.470	0.324
	Right tilted	0.055	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.098	0.166	0.122	0.154	0.343	0.121	0.390	0.165	0.386	0.164	0.433	0.232
WCDMA Band II	Left cheek	0.233	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.339	0.518	0.496	0.788	0.575	0.517	0.603	0.602	0.681	0.623	0.709	0.802
	Left tilted	0.194	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.290	0.461	0.283	0.448	0.763	0.256	0.849	0.379	0.859	0.352	0.945	0.523
	Right cheek	0.263	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.311	0.385	0.367	0.479	0.532	0.359	0.579	0.415	0.580	0.407	0.627	0.481
	Right tilted	0.178	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.221	0.289	0.245	0.277	0.466	0.244	0.513	0.288	0.509	0.287	0.556	0.355
WCDMA Band IV	Left cheek	0.114	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.220	0.399	0.377	0.669	0.456	0.398	0.484	0.483	0.562	0.504	0.590	0.683
	Left tilted	0.084	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.180	0.351	0.173	0.338	0.653	0.146	0.739	0.269	0.749	0.242	0.835	0.413
	Right cheek	0.166	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.214	0.288	0.270	0.382	0.435	0.262	0.482	0.318	0.483	0.310	0.530	0.384
	Right tilted	0.095	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.138	0.206	0.162	0.194	0.383	0.161	0.430	0.205	0.426	0.204	0.473	0.272
WCDMA Band V	Left cheek	0.158	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.264	0.443	0.421	0.713	0.500	0.442	0.528	0.527	0.606	0.548	0.634	0.727
	Left tilted	0.081	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.177	0.348	0.170	0.335	0.650	0.143	0.736	0.266	0.746	0.239	0.832	0.410
	Right cheek	0.223	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.271	0.345	0.327	0.439	0.492	0.319	0.539	0.375	0.540	0.367	0.587	0.441
	Right tilted	0.093	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.136	0.204	0.160	0.192	0.381	0.159	0.428	0.203	0.424	0.202	0.471	0.270
LTE Band 2	Left cheek	0.212	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.318	0.497	0.475	0.767	0.554	0.496	0.582	0.581	0.660	0.602	0.688	0.781
	Left tilted	0.164	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.260	0.431	0.253	0.418	0.733	0.226	0.819	0.349	0.829	0.322	0.915	0.493
	Right cheek	0.207	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.255	0.329	0.311	0.423	0.476	0.303	0.523	0.359	0.524	0.351	0.571	0.425
	Right tilted	0.124	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.167	0.235	0.191	0.223	0.412	0.190	0.459	0.234	0.455	0.233	0.502	0.301
LTE Band 4	Left cheek	0.125	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.231	0.410	0.388	0.680	0.467	0.409	0.495	0.494	0.573	0.515	0.601	0.694
	Left tilted	0.092	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.188	0.359	0.181	0.346	0.661	0.154	0.747	0.277	0.757	0.250	0.843	0.421
	Right cheek	0.148	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.196	0.270	0.252	0.364	0.417	0.244	0.464	0.300	0.465	0.292	0.512	0.366
	Right tilted	0.064	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.107	0.175	0.131	0.163	0.352	0.130	0.399	0.174	0.395	0.173	0.442	0.241
LTE Band 5	Left cheek	0.167	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.273	0.452	0.430	0.722	0.509	0.451	0.537	0.536	0.615	0.557	0.643	0.736
	Left tilted	0.088	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.184	0.355	0.177	0.342	0.657	0.150	0.743	0.273	0.753	0.246	0.839	0.417
	Right cheek	0.242	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.290	0.364	0.346	0.458	0.511	0.338	0.558	0.394	0.559	0.386	0.606	0.460
	Right tilted	0.104	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.147	0.215	0.171	0.203	0.392	0.170	0.439	0.214	0.435	0.213	0.482	0.281
LTE Band 7	Left cheek	0.323	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.429	0.608	0.586	0.878	0.665	0.607	0.693	0.692	0.771	0.713	0.799	0.892
	Left tilted	0.098	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.194	0.365	0.187	0.352	0.667	0.160	0.753	0.283	0.763	0.256	0.849	0.427
	Right cheek	0.173	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.221	0.295	0.277	0.389	0.442	0.269	0.489	0.325	0.490	0.317	0.537	0.391
	Right tilted	0.131	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.174	0.242	0.198	0.230	0.419	0.197	0.466	0.241	0.462	0.240	0.509	0.308
LTE Band 26	Left cheek	0.112	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.218	0.397	0.375	0.667	0.454	0.396	0.482	0.481	0.560	0.502	0.588	0.681
	Left tilted	0.056	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.152	0.323	0.145	0.310	0.625	0.118	0.711	0.241	0.721	0.214	0.807	0.385
	Right cheek	0.164	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.212	0.286	0.268	0.380	0.433	0.260	0.480	0.316	0.481	0.308	0.528	0.382
	Right tilted	0.073	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.116	0.184	0.140	0.172	0.361	0.139	0.408	0.183	0.404	0.182	0.451	0.250
LTE Band 38	Left cheek	0.251	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.357	0.536	0.514	0.806	0.593	0.535	0.621	0.620	0.699	0.641	0.727	0.820
	Left tilted	0.112	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.208	0.379	0.201	0.366	0.681	0.174	0.767	0.297	0.777	0.270	0.863	0



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	Right cheek	0.140	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.188	0.262	0.244	0.356	0.409	0.236	0.456	0.292	0.457	0.284	0.504	0.358
	Right tilted	0.125	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.168	0.236	0.192	0.224	0.413	0.191	0.460	0.235	0.456	0.234	0.503	0.302
	Left cheek	0.247	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.353	0.532	0.510	0.802	0.589	0.531	0.617	0.616	0.695	0.637	0.723	0.816
	Left tilted	0.130	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.226	0.397	0.219	0.384	0.699	0.192	0.785	0.315	0.795	0.288	0.881	0.459
n41	Right cheek	0.188	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.236	0.310	0.292	0.404	0.457	0.284	0.504	0.340	0.505	0.332	0.552	0.406
	Right tilted	0.089	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.132	0.200	0.156	0.188	0.377	0.155	0.424	0.199	0.420	0.198	0.467	0.266

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant1	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
n77	Left cheek	0.355	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.461	0.640	0.618	0.910	0.697	0.639	0.725	0.724	0.803	0.745	0.831	0.924
	Left tilted	0.672	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.768	0.939	0.761	0.926	1.241	0.734	1.327	0.857	1.337	0.830	1.423	1.001
	Right cheek	0.766	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.814	0.888	0.870	0.982	1.035	0.862	1.082	0.918	1.083	0.910	1.130	0.984
	Right tilted	0.326	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.369	0.437	0.393	0.425	0.614	0.392	0.661	0.436	0.657	0.435	0.704	0.503

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant2	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
LTE Band 38	Left cheek	0.133	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.239	0.418	0.396	0.688	0.475	0.417	0.503	0.502	0.581	0.523	0.609	0.702
	Left tilted	0.041	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.137	0.308	0.130	0.295	0.610	0.103	0.696	0.226	0.706	0.199	0.792	0.370
	Right cheek	0.081	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.129	0.203	0.185	0.297	0.350	0.177	0.397	0.233	0.398	0.225	0.445	0.299
	Right tilted	0.071	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.114	0.182	0.138	0.170	0.359	0.137	0.406	0.181	0.402	0.180	0.449	0.248
LTE Band 41	Left cheek	0.179	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.285	0.464	0.442	0.734	0.521	0.463	0.549	0.548	0.627	0.569	0.655	0.748
	Left tilted	0.056	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.152	0.323	0.145	0.310	0.625	0.118	0.711	0.241	0.721	0.214	0.807	0.385
	Right cheek	0.104	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.152	0.226	0.208	0.320	0.373	0.200	0.420	0.256	0.421	0.248	0.468	0.322
	Right tilted	0.086	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.129	0.197	0.153	0.185	0.374	0.152	0.421	0.196	0.417	0.195	0.464	0.263
n41	Left cheek	0.375	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.481	0.660	0.638	0.930	0.717	0.659	0.745	0.744	0.823	0.765	0.851	0.944
	Left tilted	0.116	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.212	0.383	0.205	0.370	0.685	0.178	0.771	0.301	0.781	0.274	0.867	0.445
	Right cheek	0.299	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.347	0.421	0.403	0.515	0.568	0.395	0.615	0.451	0.616	0.443	0.663	0.517
	Right tilted	0.231	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.274	0.342	0.298	0.330	0.519	0.297	0.566	0.341	0.562	0.340	0.609	0.408
n77	Left cheek	0.080	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.186	0.365	0.343	0.635	0.422	0.364	0.450	0.449	0.528	0.470	0.556	0.649
	Left tilted	0.007	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.103	0.274	0.096	0.261	0.576	0.069	0.662	0.192	0.672	0.165	0.758	0.336
	Right cheek	0.022	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.070	0.144	0.126	0.238	0.291	0.118	0.338	0.174	0.339	0.166	0.386	0.240
	Right tilted	0.000	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.043	0.111	0.067	0.099	0.288	0.066	0.335	0.110	0.331	0.109	0.378	0.177

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant3	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM1900	Left cheek	0.129	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.235	0.414	0.392	0.684	0.471	0.413	0.499	0.498	0.577	0.519	0.605	0.698
	Left tilted	0.113	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.209	0.380	0.202	0.367	0.682	0.175	0.768	0.298	0.778	0.271	0.864	0.442
	Right cheek	0.473	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.521	0.595	0.577	0.689	0.742	0.569	0.789	0.625	0.790	0.617	0.837	0.691
	Right tilted	0.110	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.153	0.221	0.177	0.209	0.398	0.176	0.445	0.220	0.441	0.219	0.488	0.287
WCDMA Band II	Left cheek	0.301	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.407	0.586	0.564	0.856	0.643	0.585	0.671	0.670	0.749	0.691	0.777	0.870
	Left tilted	0.201	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.297	0.468	0.290	0.455	0.770	0.263	0.856	0.386	0.866	0.359	0.952	0.530
	Right cheek	0.505	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.553	0.627	0.609	0.721	0.774	0.601	0.821	0.657	0.822	0.649	0.869	0.723
	Right tilted	0.244	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.287	0.355	0.311	0.343	0.532	0.310	0.579	0.354	0.575	0.353	0.622	0.421
WCDMA Band IV	Left cheek	0.110	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.216	0.395	0.373	0.665	0.452	0.394	0.480	0.479	0.558	0.500	0.586	0.679
	Left tilted	0.153	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.249	0.420	0.242	0.407	0.722	0.215	0.808	0.338	0.818	0.311	0.904	0.482
	Right cheek	0.262	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.310	0.384	0.366	0.478	0.531	0.358	0.578	0.414	0.579	0.406	0.626	0.480
	Right tilted	0.168	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.211	0.279	0.235	0.267	0.456	0.234	0.503	0.278	0.499	0.277	0.546	0.345
LTE Band 2	Left cheek	0.319	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.425	0.604	0.582	0.874	0.661	0.603	0.689	0.688	0.767	0.709	0.795	0.888
	Left tilted	0.280	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.376	0.547	0.369	0.534	0.849	0.342	0.935	0.465	0.945	0.438	1.031	0.609



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	Right cheek	0.517	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.565	0.639	0.621	0.733	0.786	0.613	0.833	0.669	0.834	0.661	0.881	0.735
	Right tilted	0.226	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.269	0.337	0.293	0.325	0.514	0.292	0.561	0.336	0.557	0.335	0.604	0.403
LTE Band 4	Left cheek	0.515	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.621	0.800	0.778	1.070	0.857	0.799	0.885	0.884	0.963	0.905	0.991	1.084
	Left tilted	0.513	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.609	0.780	0.602	0.767	1.082	0.575	1.168	0.698	1.178	0.671	1.264	0.842
	Right cheek	0.554	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.602	0.676	0.658	0.770	0.823	0.650	0.870	0.706	0.871	0.698	0.918	0.772
	Right tilted	0.298	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.341	0.409	0.365	0.397	0.586	0.364	0.633	0.408	0.629	0.407	0.676	0.475
LTE Band 7	Left cheek	0.190	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.296	0.475	0.453	0.745	0.532	0.474	0.560	0.559	0.638	0.580	0.666	0.759
	Left tilted	0.128	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.224	0.395	0.217	0.382	0.697	0.190	0.783	0.313	0.793	0.286	0.879	0.457
	Right cheek	0.656	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.704	0.778	0.760	0.872	0.925	0.752	0.972	0.808	0.973	0.800	1.020	0.874
	Right tilted	0.240	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.283	0.351	0.307	0.339	0.528	0.306	0.575	0.350	0.571	0.349	0.618	0.417
LTE Band 38	Left cheek	0.112	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.218	0.397	0.375	0.667	0.454	0.396	0.482	0.481	0.560	0.502	0.588	0.681
	Left tilted	0.056	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.152	0.323	0.145	0.310	0.625	0.118	0.711	0.241	0.721	0.214	0.807	0.385
	Right cheek	0.366	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.414	0.488	0.470	0.582	0.635	0.462	0.682	0.518	0.683	0.510	0.730	0.584
	Right tilted	0.098	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.141	0.209	0.165	0.197	0.386	0.164	0.433	0.208	0.429	0.207	0.476	0.275
LTE Band 41	Left cheek	0.100	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.206	0.385	0.363	0.655	0.442	0.384	0.470	0.469	0.548	0.490	0.576	0.669
	Left tilted	0.057	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.153	0.324	0.146	0.311	0.626	0.119	0.712	0.242	0.722	0.215	0.808	0.386
	Right cheek	0.388	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.436	0.510	0.492	0.604	0.657	0.484	0.704	0.540	0.705	0.532	0.752	0.606
	Right tilted	0.103	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.146	0.214	0.170	0.202	0.391	0.169	0.438	0.213	0.434	0.212	0.481	0.280
n41	Left cheek	0.322	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.428	0.607	0.585	0.877	0.664	0.606	0.692	0.691	0.770	0.712	0.798	0.891
	Left tilted	0.215	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.311	0.482	0.304	0.469	0.784	0.277	0.870	0.400	0.880	0.373	0.966	0.544
	Right cheek	0.763	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.811	0.885	0.867	0.979	1.032	0.859	1.079	0.915	1.080	0.907	1.127	0.981
	Right tilted	0.347	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.390	0.458	0.414	0.446	0.635	0.413	0.682	0.457	0.678	0.456	0.725	0.524
n77	Left cheek	0.154	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.260	0.439	0.417	0.709	0.496	0.438	0.524	0.523	0.602	0.544	0.630	0.723
	Left tilted	0.100	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.196	0.367	0.189	0.354	0.669	0.162	0.755	0.285	0.765	0.258	0.851	0.429
	Right cheek	0.432	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.480	0.554	0.536	0.648	0.701	0.528	0.748	0.584	0.749	0.576	0.796	0.650
	Right tilted	0.323	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.366	0.434	0.390	0.422	0.611	0.389	0.658	0.433	0.654	0.432	0.701	0.500

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant4	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM850	Left cheek	0.967	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	1.073	1.252	1.230	1.522	1.309	1.251	1.337	1.336	1.415	1.357	1.443	1.536
	Left tilted	0.778	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.874	1.045	0.867	1.032	1.347	0.840	1.433	0.963	1.443	0.936	1.529	1.107
	Right cheek	0.943	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.991	1.065	1.047	1.159	1.212	1.039	1.259	1.095	1.260	1.087	1.307	1.161
	Right tilted	0.868	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.911	0.979	0.935	0.967	1.156	0.934	1.203	0.978	1.199	0.977	1.246	1.045
WCDMA Band V	Left cheek	0.675	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.781	0.960	0.938	1.230	1.017	0.959	1.045	1.044	1.123	1.065	1.151	1.244
	Left tilted	0.603	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.699	0.870	0.692	0.857	1.172	0.665	1.258	0.788	1.268	0.761	1.354	0.932
	Right cheek	0.840	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.888	0.962	0.944	1.056	1.109	0.936	1.156	0.992	1.157	0.984	1.204	1.058
	Right tilted	0.723	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.766	0.834	0.790	0.822	1.011	0.789	1.058	0.833	1.054	0.832	1.101	0.900
LTE Band 5	Left cheek	0.495	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.601	0.780	0.758	1.050	0.837	0.779	0.865	0.864	0.943	0.885	0.971	1.064
	Left tilted	0.503	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.599	0.770	0.592	0.757	1.072	0.565	1.158	0.688	1.168	0.661	1.254	0.832
	Right cheek	0.866	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.914	0.988	0.970	1.082	1.135	0.962	1.182	1.018	1.183	1.010	1.230	1.084
	Right tilted	0.575	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.618	0.686	0.642	0.674	0.863	0.641	0.910	0.685	0.906	0.684	0.953	0.752
LTE Band 26	Left cheek	0.788	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.894	1.073	1.051	1.343	1.130	1.072	1.158	1.157	1.236	1.178	1.264	1.357
	Left tilted	0.696	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.792	0.963	0.785	0.950	1.265	0.758	1.351	0.881	1.361	0.854	1.447	1.025
	Right cheek	1.022	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	1.070	1.144	1.126	1.238	1.291	1.118	1.338	1.174	1.339	1.166	1.386	1.240
	Right tilted	0.935	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.978	1.046	1.002	1.034	1.223	1.001	1.270	1.045	1.266	1.044	1.313	1.112
LTE Band 38	Left cheek	0.259	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.365	0.544	0.522	0.814	0.601	0.543	0.629	0.628	0.707	0.649	0.735	0.828
	Left tilted	0.348	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.444	0.615	0.437	0.602	0.917	0.410	1.003	0.533	1.013	0.506	1.099	0.677
	Right cheek	0.970	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	1.018	1.092	1.074	1.186	1.239	1.066	1.286	1.122	1.287	1.114	1.334	1.188
	Right tilted	0.958	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	1.001	1.069	1.025	1.057	1.246	1.024	1.293	1.068	1.289	1.067	1.336	1.135
LTE Band 41	Left cheek	0.319	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.425	0.604	0.582	0.874	0.661	0.603	0.689	0.688	0.767	0.709	0.795	0.888
	Left tilted	0.356	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.452	0.623	0.445	0.610	0.925	0.418	1.011	0.541	1.021	0.514	1.107	0.685



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n41	Right cheek	1.094	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	1.142	1.216	1.198	1.310	1.363	1.190	1.410	1.246	1.411	1.238	1.458	1.312
	Right tilted	0.943	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.986	1.054	1.010	1.042	1.231	1.009	1.278	1.053	1.274	1.052	1.321	1.120
	Left cheek	0.295	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.401	0.580	0.558	0.850	0.637	0.579	0.665	0.664	0.743	0.685	0.771	0.864
	Left tilted	0.338	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.434	0.605	0.427	0.592	0.907	0.400	0.993	0.523	1.003	0.496	1.089	0.667
	Right cheek	0.571	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.619	0.693	0.675	0.787	0.840	0.667	0.887	0.723	0.888	0.715	0.935	0.789

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant5	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
n77	Left cheek	0.854	0.285	0.263	0.555	0.342	0.284	0.370	0.106	0.369	0.448	0.390	0.476	0.569	0.960	1.139	1.117	1.409	1.196	1.138	1.224	1.223	1.302	1.244	1.330	1.423
	Left tilted	0.730	0.267	0.089	0.254	0.569	0.062	0.655	0.096	0.185	0.665	0.158	0.751	0.329	0.826	0.997	0.819	0.984	1.299	0.792	1.385	0.915	1.395	0.888	1.481	1.059
	Right cheek	0.397	0.122	0.104	0.216	0.269	0.096	0.316	0.048	0.152	0.317	0.144	0.364	0.218	0.445	0.519	0.501	0.613	0.666	0.493	0.713	0.549	0.714	0.541	0.761	0.615
	Right tilted	0.399	0.111	0.067	0.099	0.288	0.066	0.335	0.043	0.110	0.331	0.109	0.378	0.177	0.442	0.510	0.466	0.498	0.687	0.465	0.734	0.509	0.730	0.508	0.777	0.576

Body worn:

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant0	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM850	Front side	0.141	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.156	0.182	0.170	0.205	0.262	0.181	0.285	0.185	0.277	0.196	0.300	0.222
	Back side	0.178	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.198	0.230	0.222	0.265	0.423	0.482	0.619	0.242	0.443	0.502	0.639	0.534
GSM1900	Front side	0.192	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.207	0.233	0.221	0.256	0.313	0.232	0.336	0.236	0.328	0.247	0.351	0.273
	Back side	0.265	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.285	0.317	0.309	0.352	0.510	0.569	0.706	0.329	0.530	0.589	0.726	0.621
WCDMA Band II	Front side	0.518	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.533	0.559	0.547	0.582	0.639	0.558	0.662	0.562	0.654	0.573	0.677	0.599
	Back side	0.691	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.711	0.743	0.735	0.778	0.936	0.995	1.132	0.755	0.956	1.015	1.152	1.047
WCDMA Band IV	Front side	0.513	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.528	0.554	0.542	0.577	0.634	0.553	0.657	0.557	0.649	0.568	0.672	0.594
	Back side	0.911	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.931	0.963	0.955	0.998	1.156	1.215	1.352	0.975	1.176	1.235	1.372	1.267
WCDMA Band V	Front side	0.236	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.251	0.277	0.265	0.300	0.357	0.276	0.380	0.280	0.372	0.291	0.395	0.317
	Back side	0.249	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.269	0.301	0.293	0.336	0.494	0.553	0.690	0.313	0.514	0.573	0.710	0.605
LTE Band 2	Front side	0.384	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.399	0.425	0.413	0.448	0.505	0.424	0.528	0.428	0.520	0.439	0.543	0.465
	Back side	0.601	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.621	0.653	0.645	0.688	0.846	0.905	1.042	0.665	0.866	0.925	1.062	0.957
LTE Band 4	Front side	0.470	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.485	0.511	0.499	0.534	0.591	0.510	0.614	0.514	0.606	0.525	0.629	0.551
	Back side	0.790	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.810	0.842	0.834	0.877	1.035	1.094	1.231	0.854	1.055	1.114	1.251	1.146
LTE Band 5	Front side	0.228	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.243	0.269	0.257	0.292	0.349	0.268	0.372	0.272	0.364	0.283	0.387	0.309
	Back side	0.247	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.267	0.299	0.291	0.334	0.492	0.551	0.688	0.311	0.512	0.571	0.708	0.603
LTE Band 7	Front side	0.369	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.384	0.410	0.398	0.433	0.490	0.409	0.513	0.413	0.505	0.424	0.528	0.450
	Back side	0.346	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.366	0.398	0.390	0.433	0.591	0.650	0.787	0.410	0.611	0.670	0.807	0.702
LTE Band 26	Front side	0.138	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.153	0.179	0.167	0.202	0.259	0.178	0.282	0.182	0.274	0.193	0.297	0.219
	Back side	0.241	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.261	0.293	0.285	0.328	0.486	0.545	0.682	0.305	0.506	0.565	0.702	0.597
LTE Band 38	Front side	0.226	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.241	0.267	0.255	0.290	0.347	0.266	0.370	0.270	0.362	0.281	0.385	0.307
	Back side	0.220	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.240	0.272	0.264	0.307	0.465	0.524	0.661	0.284	0.485	0.544	0.681	0.576
LTE Band 41	Front side	0.219	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.234	0.260	0.248	0.283	0.340	0.259	0.363	0.263	0.355	0.274	0.378	0.300
	Back side	0.210	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.230	0.262	0.254	0.297	0.455	0.514	0.651	0.274	0.475	0.534	0.671	0.566
n41	Front side	0.320	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.335	0.361	0.349	0.384	0.441	0.360	0.464	0.364	0.456	0.375	0.479	0.401
	Back side	0.345	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.365	0.397	0.389	0.432	0.590	0.649	0.786	0.409	0.610	0.669	0.806	0.701



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Test position		SARmax (W/kg)								Summed SAR																
		Main Ant1	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
n77	Front side	0.101	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.116	0.142	0.130	0.165	0.222	0.141	0.245	0.145	0.237	0.156	0.260	0.182
	Back side	0.112	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.132	0.164	0.156	0.199	0.357	0.416	0.553	0.176	0.377	0.436	0.573	0.468

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant2	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
LTE Band 38	Front side	0.084	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.099	0.125	0.113	0.148	0.205	0.124	0.228	0.128	0.220	0.139	0.243	0.165
	Back side	0.121	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.141	0.173	0.165	0.208	0.366	0.425	0.562	0.185	0.386	0.445	0.582	0.477
LTE Band 41	Front side	0.085	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.100	0.126	0.114	0.149	0.206	0.125	0.229	0.129	0.221	0.140	0.244	0.166
	Back side	0.137	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.157	0.189	0.181	0.224	0.382	0.441	0.578	0.201	0.402	0.461	0.598	0.493
n41	Front side	0.298	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.313	0.339	0.327	0.362	0.419	0.338	0.442	0.342	0.434	0.353	0.457	0.379
	Back side	0.469	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.489	0.521	0.513	0.556	0.714	0.773	0.910	0.533	0.734	0.793	0.930	0.825
n77	Front side	0.038	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.053	0.079	0.067	0.102	0.159	0.078	0.182	0.082	0.174	0.093	0.197	0.119
	Back side	0.058	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.078	0.110	0.102	0.145	0.303	0.362	0.499	0.122	0.323	0.382	0.519	0.414

Test position		SARmax (W/kg)									Summed SAR															
		Main Ant3	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM1900	Front side	0.050	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.065	0.091	0.079	0.114	0.171	0.090	0.194	0.094	0.186	0.105	0.209	0.131
	Back side	0.181	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.201	0.233	0.225	0.268	0.426	0.485	0.622	0.245	0.446	0.505	0.642	0.537
WCDMA Band II	Front side	0.103	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.118	0.144	0.132	0.167	0.224	0.143	0.247	0.147	0.239	0.158	0.262	0.184
	Back side	0.481	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.501	0.533	0.525	0.568	0.726	0.785	0.922	0.545	0.746	0.805	0.942	0.837
WCDMA Band IV	Front side	0.078	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.093	0.119	0.107	0.142	0.199	0.118	0.222	0.122	0.214	0.133	0.237	0.159
	Back side	0.294	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.314	0.346	0.338	0.381	0.539	0.598	0.735	0.358	0.559	0.618	0.755	0.650
LTE Band 2	Front side	0.077	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.092	0.118	0.106	0.141	0.198	0.117	0.221	0.121	0.213	0.132	0.236	0.158
	Back side	0.233	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.253	0.285	0.277	0.320	0.478	0.537	0.674	0.297	0.498	0.557	0.694	0.589
LTE Band 4	Front side	0.121	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.136	0.162	0.150	0.185	0.242	0.161	0.265	0.165	0.257	0.176	0.280	0.202
	Back side	0.329	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.349	0.381	0.373	0.416	0.574	0.633	0.770	0.393	0.594	0.653	0.790	0.685
LTE Band 7	Front side	0.147	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.162	0.188	0.176	0.211	0.268	0.187	0.291	0.191	0.283	0.202	0.306	0.228
	Back side	1.050	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	1.070	1.102	1.094	1.137	1.295	1.354	1.491	1.114	1.315	1.374	1.511	1.406
LTE Band 38	Front side	0.078	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.093	0.119	0.107	0.142	0.199	0.118	0.222	0.122	0.214	0.133	0.237	0.159
	Back side	0.834	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.854	0.886	0.878	0.921	1.079	1.138	1.275	0.898	1.099	1.158	1.295	1.190
LTE Band 41	Front side	0.063	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.078	0.104	0.092	0.127	0.184	0.103	0.207	0.107	0.199	0.118	0.222	0.144
	Back side	0.969	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.989	1.021	1.013	1.056	1.214	1.273	1.410	1.033	1.234	1.293	1.430	1.325
n41	Front side	0.126	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.141	0.167	0.155	0.190	0.247	0.166	0.270	0.170	0.262	0.181	0.285	0.207
	Back side	0.921	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.941	0.973	0.965	1.008	1.166	1.225	1.362	0.985	1.186	1.245	1.382	1.277
n77	Front side	0.080	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.095	0.121	0.109	0.144	0.201	0.120	0.224	0.124	0.216	0.135	0.239	0.161
	Back side	0.535	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.555	0.587	0.579	0.622	0.780	0.839	0.976	0.599	0.800	0.859	0.996	0.891



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Test position		SARmax (W/kg)								Summed SAR																
		Main Ant4	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM850	Front side	0.154	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.169	0.195	0.183	0.218	0.275	0.194	0.298	0.198	0.290	0.209	0.313	0.235
	Back side	0.187	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.207	0.239	0.231	0.274	0.432	0.491	0.628	0.251	0.452	0.511	0.648	0.543
WCDMA Band V	Front side	0.255	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.270	0.296	0.284	0.319	0.376	0.295	0.399	0.299	0.391	0.310	0.414	0.336
	Back side	0.303	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.323	0.355	0.347	0.390	0.548	0.607	0.744	0.367	0.568	0.627	0.764	0.659
LTE Band 5	Front side	0.111	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.126	0.152	0.140	0.175	0.232	0.151	0.255	0.155	0.247	0.166	0.270	0.192
	Back side	0.211	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.231	0.263	0.255	0.298	0.456	0.515	0.652	0.275	0.476	0.535	0.672	0.567
LTE Band 26	Front side	0.060	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.075	0.101	0.089	0.124	0.181	0.100	0.204	0.104	0.196	0.115	0.219	0.141
	Back side	0.063	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.083	0.115	0.107	0.150	0.308	0.367	0.504	0.127	0.328	0.387	0.524	0.419
LTE Band 38	Front side	0.109	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.124	0.150	0.138	0.173	0.230	0.149	0.253	0.153	0.245	0.164	0.268	0.190
	Back side	0.089	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.109	0.141	0.133	0.176	0.334	0.393	0.530	0.153	0.354	0.413	0.550	0.445
LTE Band 41	Front side	0.245	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.260	0.286	0.274	0.309	0.366	0.285	0.389	0.289	0.381	0.300	0.404	0.326
	Back side	0.215	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.235	0.267	0.259	0.302	0.460	0.519	0.656	0.279	0.480	0.539	0.676	0.571
n41	Front side	0.430	0.041	0.029	0.064	0.121	0.040	0.144	0.015	0.044	0.136	0.055	0.159	0.081	0.445	0.471	0.459	0.494	0.551	0.470	0.574	0.474	0.566	0.485	0.589	0.511
	Back side	0.324	0.052	0.044	0.087	0.245	0.304	0.441	0.020	0.064	0.265	0.324	0.461	0.356	0.344	0.376	0.368	0.411	0.569	0.628	0.765	0.388	0.589	0.648	0.785	0.680

Test position		SARmax (W/kg)							Summed SAR																	
		Main Ant5	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6+8
n77	Front side	0.262	0.154	0.041	0.029	0.064	0.121	0.040	0.144	0.185	0.208	0.265	0.184	0.275	0.406	0.416	0.303	0.291	0.326	0.383	0.302	0.447	0.470	0.527	0.446	0.537
	Back side	0.353	0.187	0.052	0.044	0.087	0.245	0.304	0.441	0.493	0.528	0.686	0.745	0.432	0.794	0.540	0.405	0.397	0.440	0.598	0.657	0.846	0.881	1.039	1.098	0.785

Hotspot:

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	Right side	0.114	0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.137	0.189	0.181	0.250	0.120	0.669	0.533	0.208	0.147	0.696	0.560	0.748
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.438								0.000	0.000	0.000	0.000	0.000	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant1	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
n77	Front side	0.185	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.212	0.251	0.241	0.306	0.325	0.277	0.326	0.268	0.352	0.304	0.353	0.343
	Back side	0.211	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.243	0.312	0.302	0.362	0.515	0.468	0.508	0.334	0.547	0.500	0.540	0.569
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side	0.639	0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.666	0.718	0.710	0.779	0.649	1.198	1.062	0.737	0.676	1.225	1.089	1.277
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.084								0.000	0.000	0.000	0.000	0.000	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant2	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
LTE Band 38	Front side	0.168	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.195	0.234	0.224	0.289	0.308	0.260	0.309	0.251	0.335	0.287	0.336	0.326
	Back side	0.259	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.291	0.360	0.350	0.410	0.563	0.516	0.556	0.382	0.595	0.548	0.588	0.617
	Left side	0.334								0.000	0.000	0.000	0.000	0.000	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.053								0.000	0.000	0.000	0.000	0.000	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
LTE Band 41	Front side	0.196	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.223	0.262	0.252	0.317	0.336	0.288	0.337	0.279	0.363	0.315	0.364	0.354
	Back side	0.286	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.318	0.387	0.377	0.437	0.590	0.543	0.583	0.409	0.622	0.575	0.615	0.644
	Left side	0.372								0.000	0.000	0.000	0.000	0.000	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.051								0.000	0.000	0.000	0.000	0.000	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
n41	Front side	0.260	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.287	0.326	0.316	0.381	0.400	0.352	0.401	0.343	0.427	0.379	0.428	0.418
	Back side	0.306	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.338	0.407	0.397	0.457	0.610	0.563	0.603	0.429	0.642	0.595	0.635	0.664
	Left side	0.341								0.000	0.000	0.000	0.000	0.000	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.068								0.000	0.000	0.000	0.000	0.000	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
n77	Front side	0.074	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.101	0.140	0.130	0.195	0.214	0.166	0.215	0.157	0.241	0.193	0.242	0.232
	Back side	0.110	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.142	0.211	0.201	0.261	0.414	0.367	0.407	0.233	0.446	0.399	0.439	0.468
	Left side	0.416								0.000	0.000	0.000	0.000	0.000	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side		0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.029	0.070	0.022	0.060	0.227	0.062	0.365	0.051	0.256	0.091	0.394	0.132
	Bottom side	0.099								0.000	0.000	0.000	0.000	0.000	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant3	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
GSM1900	Front side	0.051	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.078	0.117	0.107	0.172	0.191	0.143	0.192	0.134	0.218	0.170	0.219	0.209
	Back side	0.502	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.534	0.603	0.593	0.653	0.806	0.759	0.799	0.625	0.838	0.791	0.831	0.860
	Left side	0.238							0.000	0.000	0.000	0.000	0.000	0.000	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.043	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.072	0.113	0.065	0.103	0.270	0.105	0.408	0.094	0.299	0.134	0.437	0.175
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA	Front side	0.068	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.095	0.134	0.124	0.189	0.208	0.160	0.209	0.151	0.235	0.187	0.236	0.228



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Band II	Back side	0.441	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.473	0.542	0.532	0.592	0.745	0.698	0.738	0.564	0.777	0.730	0.770	0.799
	Left side	0.231							0.000	0.000	0.000	0.000	0.000	0.000	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231	0.231
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.053	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.082	0.123	0.075	0.113	0.280	0.115	0.418	0.104	0.309	0.144	0.447	0.185
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA Band IV	Front side	0.084	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.111	0.150	0.140	0.205	0.224	0.176	0.225	0.167	0.251	0.203	0.252	0.242
	Back side	0.378	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.410	0.479	0.469	0.529	0.682	0.635	0.675	0.501	0.714	0.667	0.707	0.736
	Left side	0.206							0.000	0.000	0.000	0.000	0.000	0.000	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.040	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.069	0.110	0.062	0.100	0.267	0.102	0.405	0.091	0.296	0.131	0.434	0.172
LTE Band 2	Front side	0.138	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.165	0.204	0.194	0.259	0.278	0.230	0.279	0.221	0.305	0.257	0.306	0.296
	Back side	0.533	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.565	0.634	0.624	0.684	0.837	0.790	0.830	0.656	0.869	0.822	0.862	0.891
	Left side	0.352							0.000	0.000	0.000	0.000	0.000	0.000	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.068	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.097	0.138	0.090	0.128	0.295	0.130	0.433	0.119	0.324	0.159	0.462	0.200
LTE Band 4	Front side	0.120	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.147	0.186	0.176	0.241	0.260	0.212	0.261	0.203	0.287	0.239	0.288	0.278
	Back side	0.558	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.590	0.659	0.649	0.709	0.862	0.815	0.855	0.681	0.894	0.847	0.887	0.916
	Left side	0.436							0.000	0.000	0.000	0.000	0.000	0.000	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.059	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.088	0.129	0.081	0.119	0.286	0.121	0.424	0.110	0.315	0.150	0.453	0.191
LTE Band 7	Front side	0.076	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.103	0.142	0.132	0.197	0.216	0.168	0.217	0.159	0.243	0.195	0.244	0.234
	Back side	0.768	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.800	0.869	0.859	0.919	1.072	1.025	1.065	0.891	1.104	1.057	1.097	1.126
	Left side	0.362							0.000	0.000	0.000	0.000	0.000	0.000	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362	0.362
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.057	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.086	0.127	0.079	0.117	0.284	0.119	0.422	0.108	0.313	0.148	0.451	0.189
LTE Band 38	Front side	0.045	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.072	0.111	0.101	0.166	0.185	0.137	0.186	0.128	0.212	0.164	0.213	0.203
	Back side	0.689	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.721	0.790	0.780	0.840	0.993	0.946	0.986	0.812	1.025	0.978	1.018	1.047
	Left side	0.212							0.000	0.000	0.000	0.000	0.000	0.000	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.026	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.055	0.096	0.048	0.086	0.253	0.088	0.391	0.077	0.282	0.117	0.420	0.158
LTE Band 41	Front side	0.039	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.066	0.105	0.095	0.160	0.179	0.131	0.180	0.122	0.206	0.158	0.207	0.197
	Back side	0.774	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.806	0.875	0.865	0.925	1.078	1.031	1.071	0.897	1.110	1.063	1.103	1.132
	Left side	0.220							0.000	0.000	0.000	0.000	0.000	0.000	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.017	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.046	0.087	0.039	0.077	0.244	0.079	0.382	0.068	0.273	0.108	0.411	0.149
n41	Front side	0.070	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.097	0.136	0.126	0.191	0.210	0.162	0.211	0.153	0.237	0.189	0.238	0.228
	Back side	0.310	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.342	0.411	0.401	0.461	0.614	0.567	0.607	0.433	0.646	0.599	0.639	0.668
	Left side	0.293							0.000	0.000	0.000	0.000	0.000	0.000	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.180	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.209	0.250	0.202	0.240	0.407	0.242	0.545	0.231	0.436	0.271	0.574	0.312
n77	Front side	0.033	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.060	0.099	0.089	0.154	0.173	0.125	0.174	0.116	0.200	0.152	0.201	0.191
	Back side	0.216	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.248	0.317	0.307	0.367	0.520	0.473	0.513	0.339	0.552	0.505	0.545	0.574
	Left side	0.162							0.000	0.000	0.000	0.000	0.000	0.000	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.027	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.056	0.097	0.049	0.087	0.254	0.089	0.392	0.078	0.283	0.118	0.421	0.159



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test position		SARmax (W/kg)								Summed SAR																
		Main Ant5	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
n77	Front side	0.173	0.066	0.056	0.121	0.140	0.092	0.141	0.027	0.083	0.167	0.119	0.168	0.158	0.200	0.239	0.229	0.294	0.313	0.265	0.314	0.256	0.340	0.292	0.341	0.331
	Back side	0.261	0.101	0.091	0.151	0.304	0.257	0.297	0.032	0.123	0.336	0.289	0.329	0.358	0.293	0.362	0.352	0.412	0.565	0.518	0.558	0.384	0.597	0.550	0.590	0.619
	Left side	0.128							0.000	0.000	0.000	0.000	0.000	0.000	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
	Right side		0.079	0.071	0.140	0.010	0.559	0.423	0.027	0.098	0.037	0.586	0.450	0.638	0.027	0.079	0.071	0.140	0.010	0.559	0.423	0.098	0.037	0.586	0.450	0.638
	Top side	0.229	0.070	0.022	0.060	0.227	0.062	0.365	0.029	0.051	0.256	0.091	0.394	0.132	0.258	0.299	0.251	0.289	0.456	0.291	0.594	0.280	0.485	0.320	0.623	0.361
	Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Product Specific 10-g (0mm):

Test position		SARmax (W/kg)								Summed SAR																
		Main Ant0	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
WCDMA Band II	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side	2.431				0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	2.431	2.431	2.431	2.431	3.108	2.960	3.225	2.431	3.108	2.960	3.225	2.960
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side	1.708								0.000	0.000	0.000	0.000	0.000	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708
WCDMA Band IV	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side	2.192				0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	2.192	2.192	2.192	2.192	2.869	2.721	2.986	2.192	2.869	2.721	2.986	2.721
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side	1.486								0.000	0.000	0.000	0.000	0.000	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486
LTE Band 2	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side					0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	0.000	0.000	0.000	0.000	0.677	0.529	0.794	0.000	0.677	0.529	0.794	0.529
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side	2.572								0.000	0.000	0.000	0.000	0.000	2.572	2.572	2.572	2.572	2.572	2.572	2.572	2.572	2.572	2.572	2.572	2.572
LTE Band 4	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side					0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	0.000	0.000	0.000	0.000	0.677	0.529	0.794	0.000	0.677	0.529	0.794	0.529
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side	2.173								0.000	0.000	0.000	0.000	0.000	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173



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Test position		SARmax (W/kg)								Summed SAR																
		Main Ant3	WiFi 2.4G(chain0)	WiFi 2.4G(chain1)	WiFi 2.4G(MIMO)	WiFi 5G(chain0)	WiFi 5G(chain1)	WiFi 5G(MIMO)	BT																	
		1	2	3	4	5	6	7	8	3+8	5+8	6+8	7+8	2+6	1+8	1+2	1+3	1+4	1+5	1+6	1+7	1+3+8	1+5+8	1+6+8	1+7+8	1+2+6
LTE Band 7	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199	
	Back side	0.577				0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	0.577	0.577	0.577	1.254	1.106	1.371	0.577	1.254	1.106	1.371	1.106	
	Left side	0.549								0.000	0.000	0.000	0.000	0.000	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 38	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side	1.027				0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	1.027	1.027	1.027	1.027	1.704	1.556	1.821	1.027	1.704	1.556	1.821	1.556
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 41	Front side					0.399	0.199	0.335		0.000	0.399	0.199	0.335	0.199	0.000	0.000	0.000	0.000	0.399	0.199	0.335	0.000	0.399	0.199	0.335	0.199
	Back side	1.348				0.677	0.529	0.794		0.000	0.677	0.529	0.794	0.529	1.348	1.348	1.348	1.348	2.025	1.877	2.142	1.348	2.025	1.877	2.142	1.877
	Left side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right side					0.320	1.249	1.306		0.000	0.320	1.249	1.306	1.249	0.000	0.000	0.000	0.000	0.320	1.249	1.306	0.000	0.320	1.249	1.306	1.249
	Top side					1.408	0.061	1.800		0.000	1.408	0.061	1.800	0.061	0.000	0.000	0.000	0.000	1.408	0.061	1.800	0.000	1.408	0.061	1.800	0.061
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52; SEMCAD				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	SAM 5	1481	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 6	1824	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 7	1702	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 8	1425	NCR	NCR
☒	DAE	SPEAG	DAE4	1327	2020-10-20	2021-10-19
☒	DAE	SPEAG	DAE3	414	2020-12-30	2021-12-29
☒	DAE	SPEAG	DAE4	1374	2020-11-06	2021-11-05
☒	E-Field Probe	SPEAG	EX3DV4	7620	2021-02-05	2022-02-04
☒	E-Field Probe	SPEAG	EX3DV4	3789	2020-06-16	2021-06-15
☒	E-Field Probe	SPEAG	EX3DV4	3923	2020-12-18	2021-12-17
☒	E-Field Probe	SPEAG	EX3DV4	3982	2020-10-28	2021-10-27
☒	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
☒	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
☒	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
☒	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
☒	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
☒	Validation Kits	SPEAG	D3700V2	1046	2019-09-06	2022-09-05
☒	Validation Kits	SPEAG	D3900V2	1026	2019-09-03	2022-09-02
☒	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
☒	Agilent Network Analyzer	Agilent	E5071C	MY46523591	2021-04-14	2022-04-13
☒	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
☒	Universal Radio Communication Tester	R&S	CMW500	124587	2021-04-01	2022-03-31
☒	Radio Communication Analyzer	Anritsu	MT8820C	6201010267	2021-04-01	2022-03-31
☒	Radio Communication Analyzer	Anritsu	MT8820C	6201181442	2021-04-01	2022-03-31
☒	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2020-06-11	2021-06-10



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☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	Agilent	N5171B	MY53050736	2021-04-14	2022-04-13
☒	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
☒	Power Meter	Agilent	E4416A	GB41292095	2021-04-14	2022-04-13
☒	Power Sensor	Agilent	8481H	MY41091234	2021-04-14	2022-04-13
☒	Power Sensor	R&S	NRP-Z92	100025	2021-04-14	2022-04-13
☒	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
☒	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	MingGao	T809	NA	2020-11-06	2021-11-05

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



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Appendix E: Conducted RF Output Power Table

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