



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500039101

Rev.: 01

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FCC SAR TEST REPORT

Application No.: SUCR2505000391WM
Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Product Name: Mobile Phone
Model No.(EUT): RMX5101
FCC ID: 2AUYFRMX5101
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-05-07
Date of Test: 2025-05-26 to 2025-06-25
Date of Issue: 2025-07-01
Test conclusion: **PASS ***

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

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Revision Record			
Version	Description	Date	Remark
01	Original	2025/07/01	/

Authorized for issue by:		
Prepared By		Leon Liu
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Approved By		Nick Hu
		Nick Hu/ Technical Manager

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.11	0.11	0.11	/
GSM1900	0.90	0.30	0.50	/
WCDMA Band II	0.80	0.44	0.61	/
WCDMA Band IV	0.90	0.64	0.83	/
WCDMA Band V	0.18	0.13	0.18	/
LTE Band 2	0.87	0.56	1.04	/
LTE Band 4	0.84	0.40	0.52	/
LTE Band 7	0.90	0.39	0.52	/
LTE Band 12(17)	0.28	0.29	0.65	/
LTE Band 13	0.17	0.19	0.46	/
LTE Band 26(5)	0.16	0.11	0.17	/
LTE Band 38	0.89	0.31	0.36	/
LTE Band 41	0.90	0.31	0.45	/
LTE Band 66	0.91	0.84	1.01	/
LTE Band 71	0.18	0.10	0.24	/
NR Band n2	0.72	0.41	0.85	/
NR Band n7	0.90	0.26	0.42	/
NR Band n26(5)	0.15	<0.10	0.15	/
NR Band n38	0.67	0.25	0.41	/
NR Band n41	0.90	0.38	0.38	/
NR Band n66	0.83	0.59	0.85	/
NR Band n71	0.13	<0.10	0.16	/
WI-FI (2.4GHz)	0.55	0.11	0.10	/
WI-FI (5GHz)	0.66	0.25	0.35	1.97
BT	0.41	<0.10	<0.10	/
NFC	/	/	/	<0.10
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.58	1.53	1.50	1.97
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

- 1) The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.
- 2) All the frequency bands within this project support the Qualcomm smart transmit tuning power. Considering its characteristics, the scenario of simultaneous operation is waived from evaluation. According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 5 (Frequency range:824 - 849 MHz) /LTE Band 17 (Frequency range:704-716 MHz) /n5 (Frequency range:824 - 849 MHz) is respectively covered by LTE Band26 (Frequency range:814 - 849 MHz)/ LTE Band 12 (Frequency range:699-716 MHz)/n26 (Frequency range:814 - 849 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

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1 General Information

1.1 Details of Client

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China

1.2 Test Location

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

1.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

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

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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Designation Number: CN1312.

Test Firm Registration Number: 0031225543

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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):	RMX5101		
Product Phase:	Production Unit		
Hardware Version:	11		
Software Version:	realme UI 6.0		
IMEI:	865863070019778 865863070019760 865863070019752 865863070019745		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM; LTE: QPSK,16QAM,64QAM; 5G NR: DFT-s-OFDM (QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, $\pi/4$ DQPSK,8DPSK NFC: ASK		
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 12	699 - 716	729 - 746
	LTE Band 13	777 - 787	746 - 756
	LTE Band 17	704 - 716	734 - 746
	LTE Band 26	814 - 849	859 - 894
	LTE Band 66	1710 - 1780	2110 - 2200
	LTE Band 71	663 - 698	617 - 652
	LTE Band 38	2570 - 2620	2570 - 2620
	LTE Band 41	2496 - 2690	2496 - 2690
	NR Band n2	1850 - 1910	1930 - 1990
	NR Band n5	824 - 849	869 - 894
	NR Band n7	2500 - 2570	2620 - 2690
	NR Band n26	814 - 849	859 - 894
	NR Band n66	1710 - 1780	2110 - 2200



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	NR Band n71	663 – 698	617 – 652
	NR Band n38	2570 - 2620	2570 - 2620
	NR Band n41	2496 - 2690	2496 - 2690
	Bluetooth	2400 - 2483.5	2400 - 2483.5
	Wi-Fi 2.4G	2402 - 2462	2402 - 2462
	Wi-Fi 5G	5150 - 5250	5150 - 5250
		5250 - 5350	5250 - 5350
		5470 - 5725	5470 - 5725
5725 - 5850		5725 - 5850	
NFC	13.56	/	
RF Cable:	☒ Provided by the applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BLPC81	
	Normal Voltage:	3.83V	
	Rated capacity:	6830mAh	
	Manufacturer:	Dongguan NVT Technology Co.,Ltd.	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			
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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Ant	Band:
Ant0	GSM:850 WCDMA: B5 LTE: B5/12/13/17/26/71 NR: N5/26/71
Ant1	GSM:850 WCDMA: B5 LTE: B5/12/13/17/26/71 NR:N5/26/71
Ant3	GSM:1900 WCDMA: B2/4 LTE: B2/4/7/66/38/41 NR: N7/38/41/66
Ant4	GSM:1900 WCDMA: B2/4 LTE: B2/4/7/66/38/41 NR: N7/38/41/66
Ant5	LTE : B4/7/38/41/66 NR: N7/38/41/66
Ant8	GPS/2.4G WIFI/BT
Ant9	5G WIFI
Ant10	5G WIFI/5G
Ant11	2.4G WIFI/5G

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 174.5 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥ 160 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
Ant.0	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
Ant.1	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant.3	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant.4	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant.5	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant.8	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant.9	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant.10	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant.11	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

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 Power reduction specification

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

- 1) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 2) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.

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



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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
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 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%
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 1: The Ambient Conditions

3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 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.

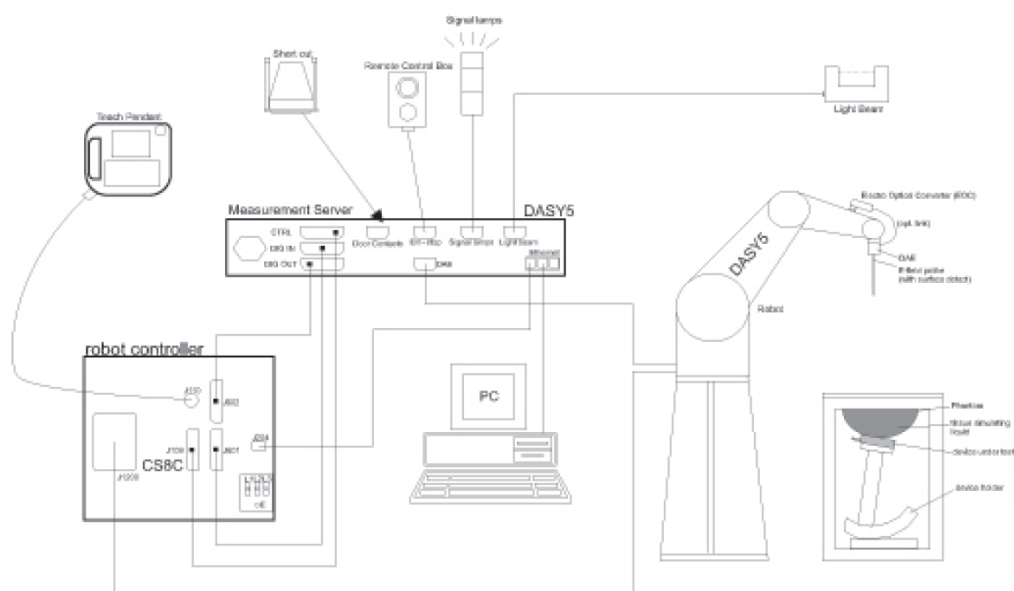
The DASY system for performing compliance tests consists of the following items:

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.

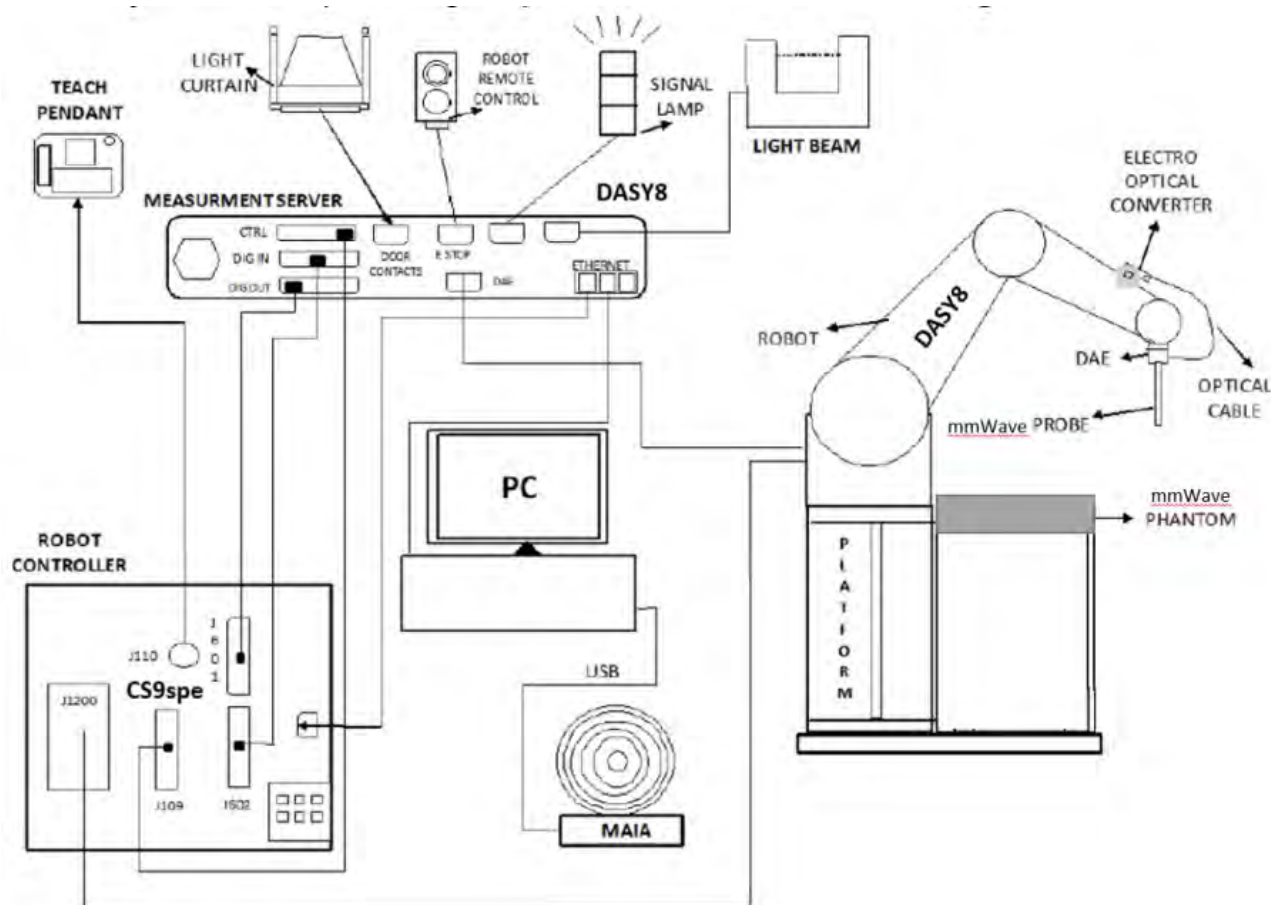


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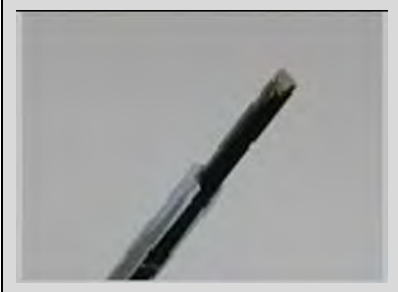
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F-1. SAR Measurement System Configuration

- 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 system.
- DASYS8 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	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. 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 IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles. ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ 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.



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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 straightforward 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 $\pm 5 \%$.

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:

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

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)

dcpi = diode compression point (DASY parameter)

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

E-field probes:

$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

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 ($i = x, y, z$)

Norm_i = 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.

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

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 KDB 865664 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 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

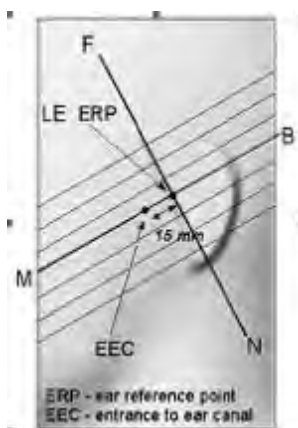


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only—procedures in this recommended practice are intended primarily for the phantom setup.

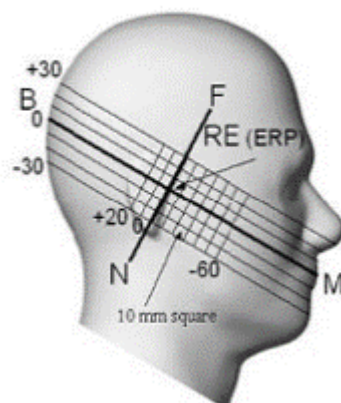
Note: The centre strip including the nose region has a different thickness tolerance.



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

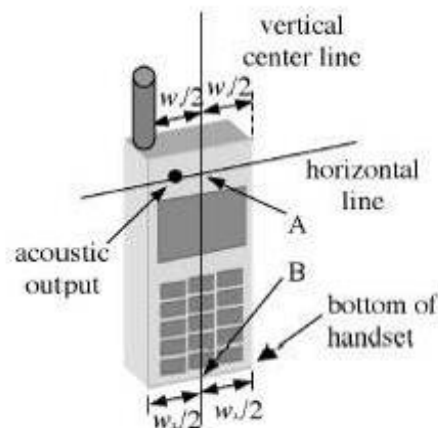


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

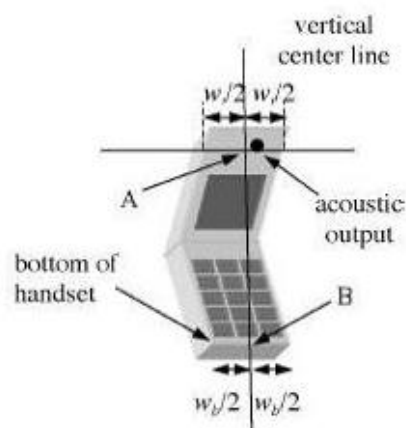


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



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

5.1.3 Definition of the “cheek” position

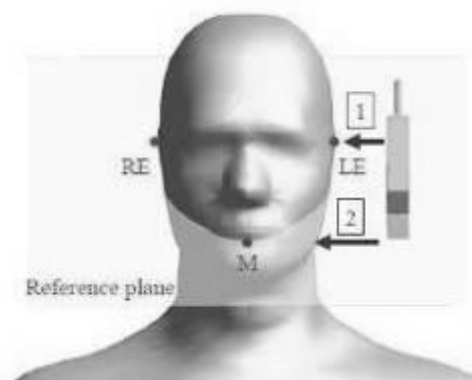
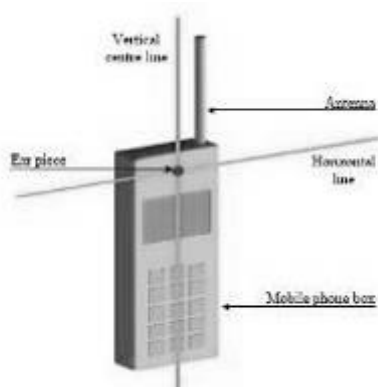
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.

b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

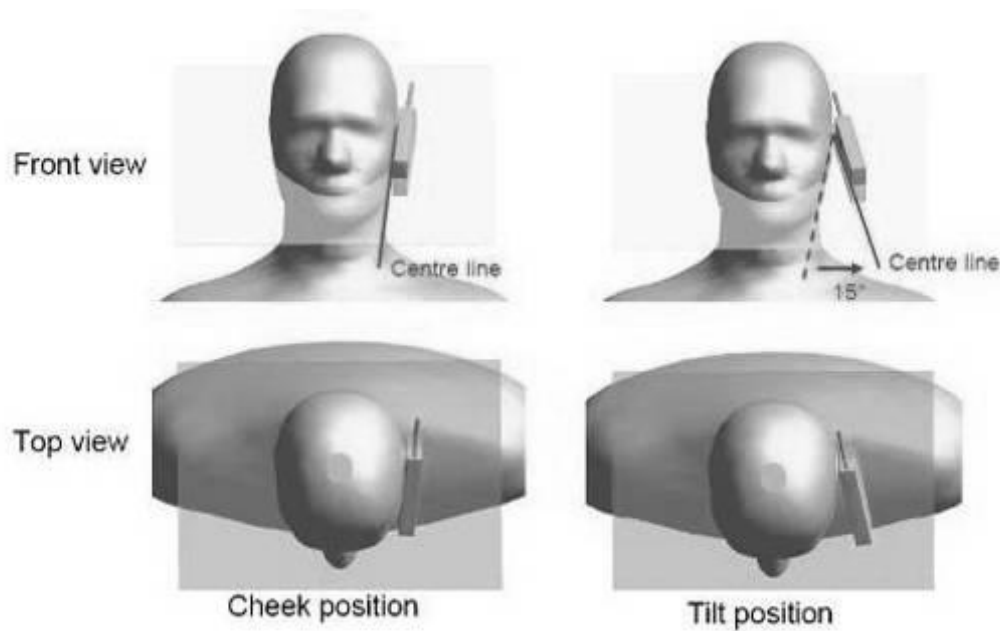
5.1.4 Definition of the “tilted” position

a) Position the device in the “cheek” position described above;

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



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



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

5.2 Body Exposure Condition

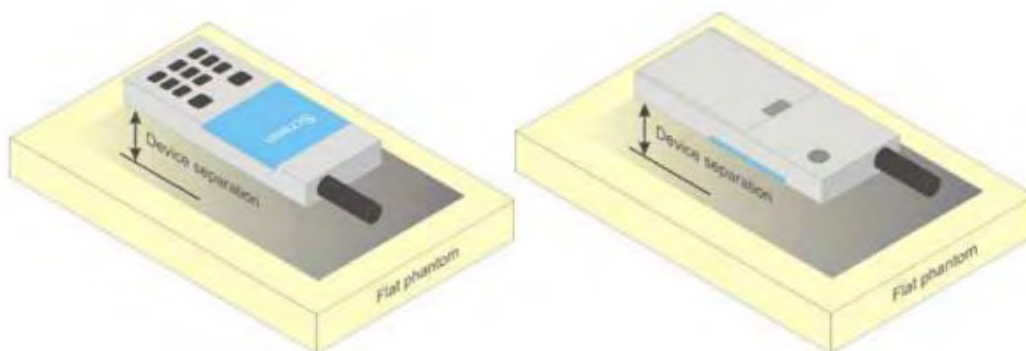
5.2.1 Body-worn accessory exposure conditions

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

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, 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.



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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 648474 D04, 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, WIFI 5G, NFC frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.



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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 Sucrose: 98+% Pure Sucrose Water: De-ionized, 16 MΩ ⁺ resistivity HEC: Hydroxyethyl Cellulose Tween: Polyoxyethylene (20) sorbitan monolaurate					
HSL13MHz is composed of the following ingredients: Water: 50-90% Non-ionic detergents: 5-50% Nacl: 0-2% Preservative: 0.03-0.1% HSL5GHz is composed of the following ingredients: Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

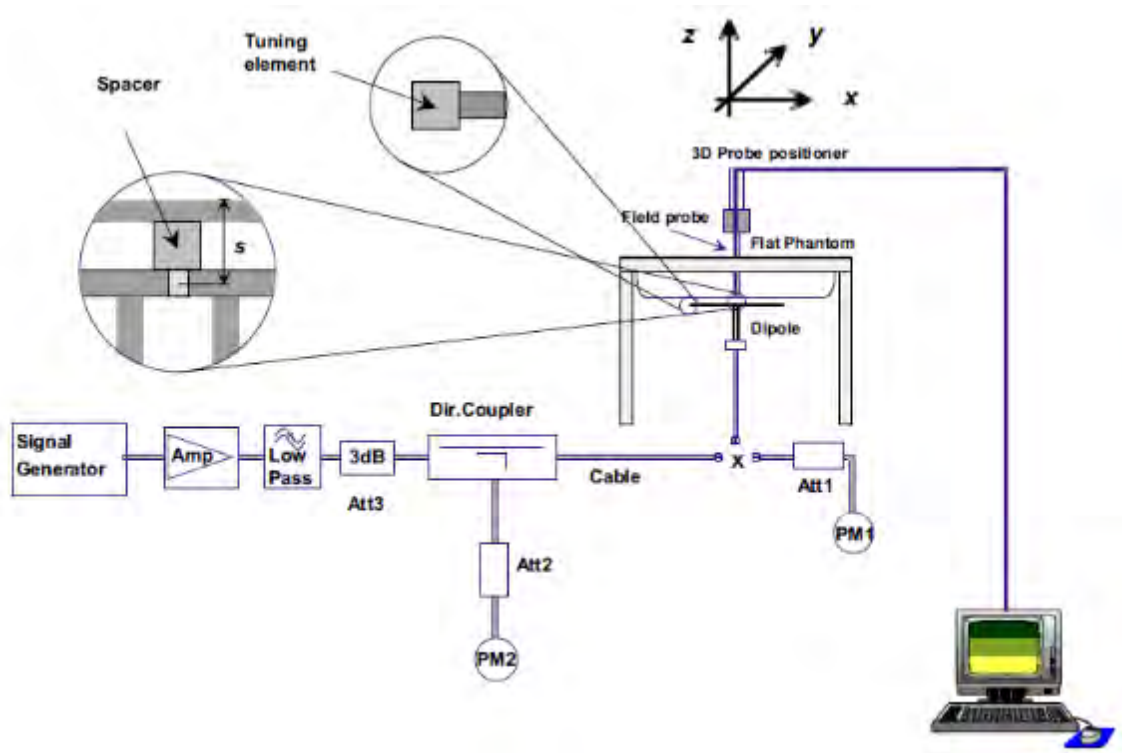
The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
13 Head	13	55.900	0.725	55.00	0.75	1.64%	-3.33%	22.5	2025/6/25
750 Head	750	41.908	0.892	41.90	0.89	0.02%	0.22%	21.9	2025/5/26
835 Head	835	42.329	0.909	41.50	0.90	2.00%	1.00%	22.2	2025/5/27
1750 Head	1750	39.026	1.330	40.10	1.37	-2.68%	-2.92%	22.1	2025/5/28
1950 Head	1950	39.235	1.400	40.00	1.40	-1.91%	0.00%	22.3	2025/5/29
2450 Head	2450	39.047	1.793	39.20	1.80	-0.39%	-0.39%	21.9	2025/5/30
2600 Head	2600	38.721	1.957	39.00	1.96	-0.72%	-0.15%	22.1	2025/6/31
2600 Head	2600	39.988	2.013	39.00	1.96	2.53%	2.70%	22.2	2025/6/1
5250 Head	5250	36.775	4.770	35.90	4.71	2.44%	1.27%	22.3	2025/6/2
5600 Head	5600	35.907	5.156	35.50	5.07	1.15%	1.70%	22.3	2025/6/3
5750 Head	5750	35.726	5.351	35.40	5.22	0.92%	2.51%	22.3	2025/6/4

Table 3: Measurement result of Tissue electric parameters.

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ 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



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6.2.1 Justification for Extended SAR Dipole Calibrations

1) 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 20% 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)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
CLA-13_Head	0.11	0.07	0.44	0.27	0.42	0.27	5.46%	0.75%	22.5	2025/6/25
D750V3_Head	2.21	1.51	8.84	6.04	8.54	5.80	3.51%	4.14%	21.9	2025/5/26
D835V2_Head	2.47	1.59	9.88	6.36	9.60	6.16	2.92%	3.25%	22.2	2025/5/27
D1750V2_Head	8.93	4.71	35.72	18.84	36.30	19.30	-1.60%	-2.38%	22.1	2025/5/28
D1950V3_Head	9.99	5.14	39.96	20.56	40.40	20.80	-1.09%	-1.15%	22.3	2025/5/29
D2450V2_Head	13.40	6.28	53.60	25.12	52.70	24.60	1.71%	2.11%	21.9	2025/5/30
D2600V2_Head	13.70	6.14	54.80	24.56	55.20	24.70	-0.72%	-0.57%	22.1	2025/5/31
D2600V2_Head	13.60	6.31	54.40	25.24	55.20	24.70	-1.45%	2.19%	22.2	2025/6/1
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2_5.25G_Head	7.58	2.18	75.80	21.80	77.20	21.90	-1.81%	-0.46%	22.3	2025/6/2
D5GHzV2_5.6G_Head	8.28	2.38	82.80	23.80	81.10	22.80	2.10%	4.39%	22.3	2025/6/3
D5GHzV2_5.75G_Head	7.63	2.17	76.30	21.70	77.80	21.70	-1.93%	0.00%	22.3	2025/6/4

Table 4: SAR System Check Result.

6.2.3 Detailed System Check Results

Please see the Appendix A

7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” or “0” in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. 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, 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.

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

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8).

7.1.2 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

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is

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scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

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.

Sub-test	β_c	β_d	$\beta_d(SF)$	β_c/β_d	β_{hs}	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: Δ_{ACK} , Δ_{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, Δ_{ACK} 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 5: 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 HS-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 6: 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 ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c/β_d ^c	β_{hs} ⁽¹⁾ ^c	β_{ack} ^c	β_{ad} ^c	β_c (SF) ^c	β_{ad} (code) ^c	CM ⁽²⁾ ^c (dB) ^c	MP R ^c (dB) ^c	AG ⁽⁴⁾ Index ^c	E-TFC I ^c
1 ^c	11/15 ⁽³⁾ ^c	15/15 ⁽³⁾ ^c	64 ^c	11/15 ⁽³⁾ ^c	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ad1}: 47/15c$ $\beta_{ad2}: 47/15c$	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾ ^c	15/15 ⁽⁴⁾ ^c	64 ^c	15/15 ⁽⁴⁾ ^c	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

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^c

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 $\beta_d = 15/15$ ^c

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 $\beta_d = 15/15$ ^c

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^c

Note 6: β_{ad} can not be set directly; it is set by Absolute Grant Value.^c

Table 7: Subtests for UMTS Release 6 HSUPA

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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 8: HSUPA UE category

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 9: settings of required H-Set 12 QPSK acc. To 3GPP 34.121

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Note:

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

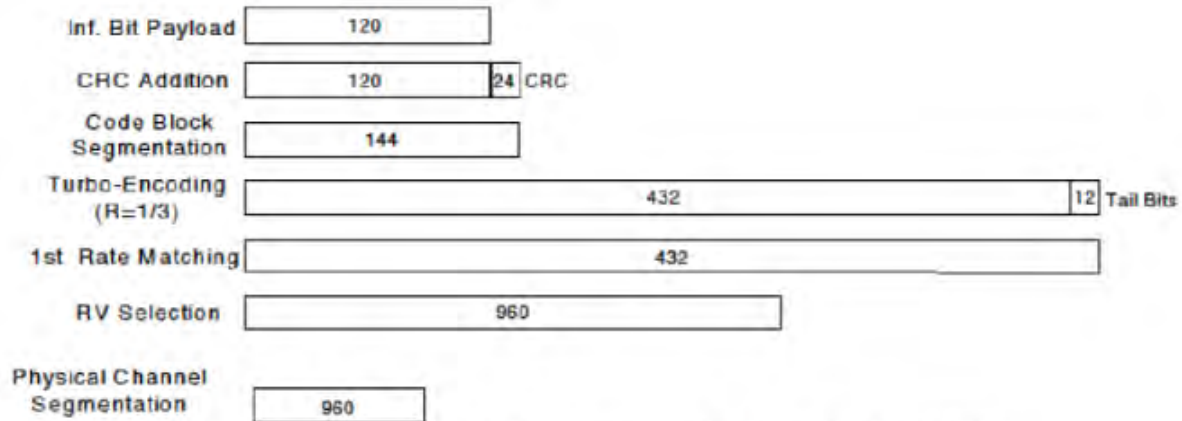


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test ^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: Δ ACK, Δ NACK and Δ CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

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

Note:

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

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d) HSPA+

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

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

Sub-test	β_{cs} (Note 3)	β_{d}	β_{HS} (Note 1)	β_{ec}	β_{ed1} (2xSF2) (Note 4)	β_{ed3} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{\text{CQI}} = 30/15$ with $\beta_{\text{HS}} = 30/15 * \beta_{\text{c}}$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_{c} is set to 1 and $\beta_{\text{d}} = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

5) 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 $\leq 1/4$ 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.

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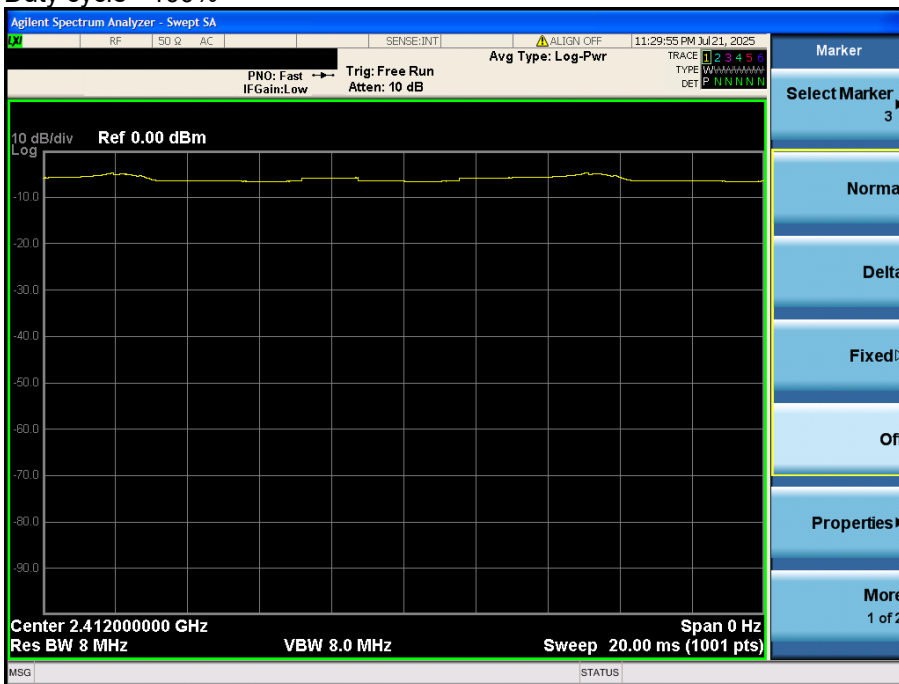
7.1.3 WiFi Test Configuration

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.

7.1.4 Duty cycle

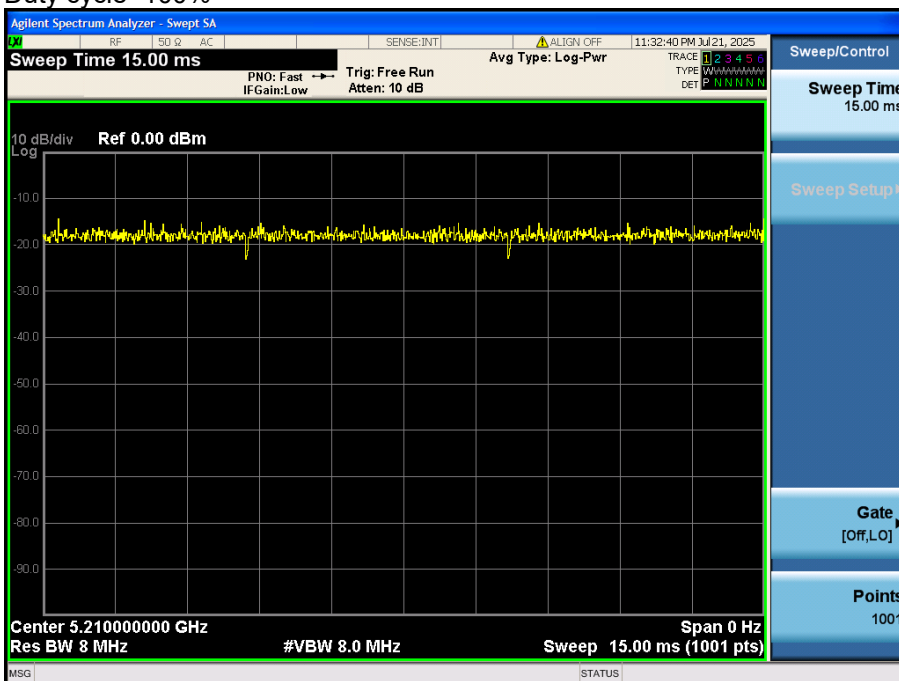
Wi-Fi 2.4GHz 802.11b:

Duty cycle= 100%



Wi-Fi 5GHz 802.11a:

Duty cycle=100%



7.1.4.1 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.

7.1.4.2 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.

7.1.4.3 Subsequent Test Configuration Procedures

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

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

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7.1.4.4 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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7.1.4.5 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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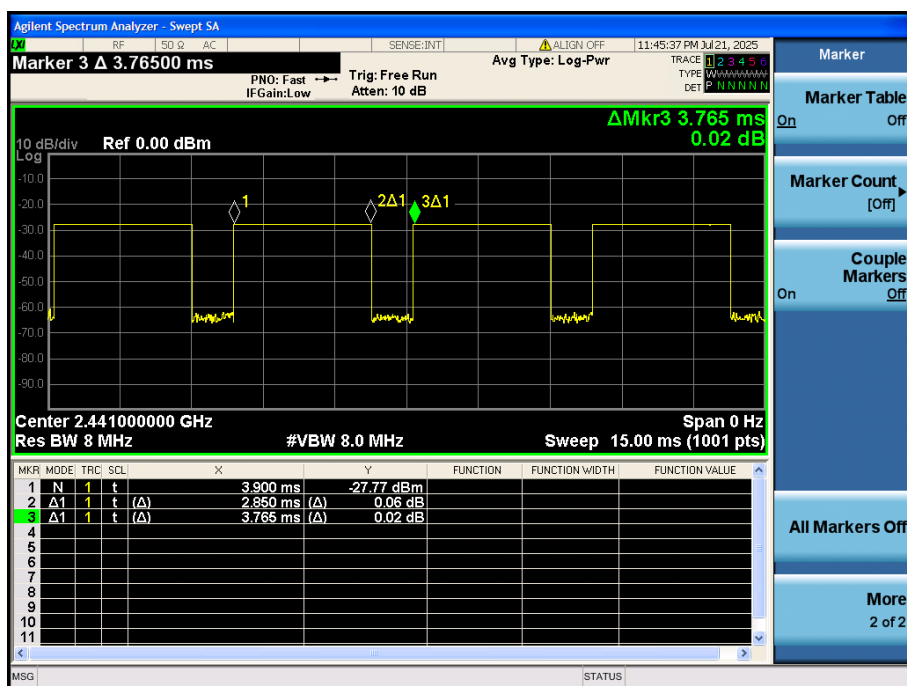
OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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.



7.1.6 LTE Test Configuration

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

TDD LTE test consideration

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

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

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

Frame structure type 2:

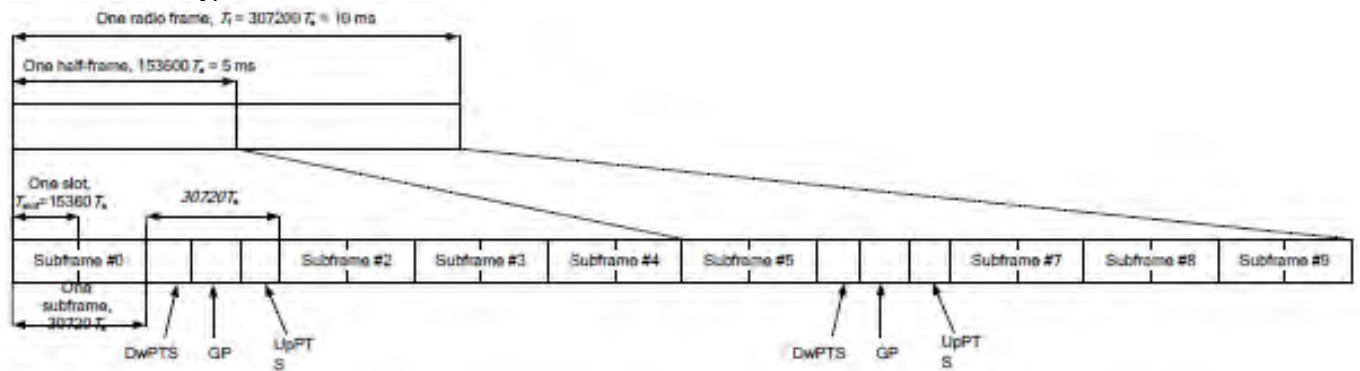


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	4384.Ts	5120.Ts	7680.Ts	4384.Ts	5120.Ts
5	6592.Ts			20480.Ts		
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

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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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F) LTE CA additional specification

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

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

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Appendix E (Conducted RF Output Power). 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.

6) General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the

[illegible]

[illegible]

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4. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not $\frac{1}{2}$ 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.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ 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.
 - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device

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5. 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 and Table 6.2.2 -2.

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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 <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.				
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.				

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

6. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

7. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

2) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

3) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.



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8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power table can refer to Appendix E.



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8.2 Measurement of SAR Data

Note:

- 1) The maximum reported SAR value is marked in **bold**. Graph results refer to Appendix B
- 2) Per KDB 447498 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 2.0W/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 $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 5) For Wi-Fi 5G, U-NII-1 (5150–5250 MHz) and U-NII-3 (5725-5850 MHz) bands does support hotspot function.
- 6) NFC is different from the working scenario of WIFI(Head/Body-worn/Hotspot) and does participate in the simultaneous transmission.

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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.051	-0.17	26.89	28.00	1.291	0.066	22.2
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.001	-0.12	26.89	28.00	1.291	0.001	22.2
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.074	-0.07	26.89	28.00	1.291	0.096	22.2
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.001	-0.06	26.89	28.00	1.291	0.001	22.2
Body worn Test data(Separate 15mm)(State1)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.063	0.01	26.89	28.00	1.291	0.081	22.2
Back side	GPRS 4TS	190/836.6	1:2.075	0.086	-0.08	26.89	28.00	1.291	0.111	22.2
Hotspot Test data(Separate 10mm)(State7)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.063	0.01	26.89	28.00	1.291	0.081	22.2
Back side	GPRS 4TS	190/836.6	1:2.075	0.086	-0.08	26.89	28.00	1.291	0.111	22.2
Right side	GPRS 4TS	190/836.6	1:2.075	0.076	0.13	26.89	28.00	1.291	0.098	22.2
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.044	-0.01	26.89	28.00	1.291	0.057	22.2
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.091	0.03	27.13	28.00	1.222	0.112	22.2
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.014	0.10	27.13	28.00	1.222	0.017	22.2
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.045	0.03	27.13	28.00	1.222	0.055	22.2
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.001	-0.01	27.13	28.00	1.222	0.001	22.2
Body worn Test data(Separate 15mm)(State1)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.001	-0.16	27.13	28.00	1.222	0.001	22.2
Back side	GPRS 4TS	190/836.6	1:2.075	0.035	-0.15	27.13	28.00	1.222	0.043	22.2
Hotspot Test data(Separate 10mm)(State7)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.001	-0.16	27.13	28.00	1.222	0.001	22.2
Back side	GPRS 4TS	190/836.6	1:2.075	0.035	-0.15	27.13	28.00	1.222	0.043	22.2
Left side	GPRS 4TS	190/836.6	1:2.075	0.073	-0.13	27.13	28.00	1.222	0.089	22.2

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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 3 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.015	-0.01	24.99	26.00	1.262	0.019	22.3
Left tilted	GPRS 4TS	661/1880	1:2.075	0.011	0.09	24.99	26.00	1.262	0.014	22.3
Right cheek	GPRS 4TS	661/1880	1:2.075	0.001	-0.16	24.99	26.00	1.262	0.001	22.3
Right tilted	GPRS 4TS	661/1880	1:2.075	0.001	-0.19	24.99	26.00	1.262	0.001	22.3
Body worn Test data(Separate 15mm)(State1)										
Front side	GPRS 4TS	661/1880	1:2.075	0.076	-0.02	24.99	26.00	1.262	0.096	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.178	0.19	24.99	26.00	1.262	0.225	22.3
Hotspot Test data(Separate 10mm)(State7)										
Front side	GPRS 4TS	661/1880	1:2.075	0.076	-0.02	24.99	26.00	1.262	0.096	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.178	0.19	24.99	26.00	1.262	0.225	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.001	0.17	24.99	26.00	1.262	0.001	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.229	0.01	24.99	26.00	1.262	0.289	22.3
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.541	0.06	23.89	24.70	1.205	0.652	22.3
Left tilted	GPRS 4TS	661/1880	1:2.075	0.691	-0.05	23.89	24.70	1.205	0.833	22.3
Right cheek	GPRS 4TS	661/1880	1:2.075	0.692	0.10	23.89	24.70	1.205	0.834	22.3
Right tilted	GPRS 4TS	661/1880	1:2.075	0.744	-0.04	23.89	24.70	1.205	0.897	22.3
Right tilted-Repeat SAR	GPRS 4TS	661/1880	1:2.075	0.739	0.16	23.89	24.70	1.205	0.891	22.3
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.713	0.06	23.72	24.70	1.253	0.893	22.3
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.717	-0.09	23.79	24.70	1.233	0.884	22.3
Head Test Data(State10)										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.541	0.06	23.89	23.20	0.853	0.462	22.3
Left tilted	GPRS 4TS	661/1880	1:2.075	0.691	-0.05	23.89	23.20	0.853	0.589	22.3
Right cheek	GPRS 4TS	661/1880	1:2.075	0.692	0.10	23.89	23.20	0.853	0.590	22.3
Right tilted	GPRS 4TS	661/1880	1:2.075	0.744	-0.04	23.89	23.20	0.853	0.635	22.3
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.713	0.06	23.72	23.20	0.887	0.633	22.3
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.717	-0.09	23.79	23.20	0.873	0.626	22.3
Body worn Test data(Separate 15mm)(State1)										
Front side	GPRS 4TS	661/1880	1:2.075	0.205	0.12	25.29	26.00	1.178	0.241	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.256	-0.01	25.29	26.00	1.178	0.301	22.3
Hotspot Test data(Separate 10mm)(State7)										
Front side	GPRS 4TS	661/1880	1:2.075	0.205	0.12	25.29	26.00	1.178	0.241	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.256	-0.01	25.29	26.00	1.178	0.301	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.132	0.07	25.29	26.00	1.178	0.155	22.3
Top side	GPRS 4TS	661/1880	1:2.075	0.425	-0.18	25.29	26.00	1.178	0.500	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	661/1880	0.864	0.858	1.007	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) 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. The repeated measurement results must be clearly identified in the SAR report.						

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8.2.3 SAR Result of WCDMA Band II

WCDMA Band II SAR Test Record										
Ant 3 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	9400/1880	1:1	0.061	0.17	23.70	24.30	1.148	0.070	22.3
Left tilted	RMC	9400/1880	1:1	0.028	-0.19	23.70	24.30	1.148	0.032	22.3
Right cheek	RMC	9400/1880	1:1	0.042	-0.14	23.70	24.30	1.148	0.048	22.3
Right tilted	RMC	9400/1880	1:1	0.001	0.04	23.70	24.30	1.148	0.001	22.3
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	9400/1880	1:1	0.143	0.03	23.70	24.30	1.148	0.164	22.3
Back side	RMC	9400/1880	1:1	0.330	0.07	23.70	24.30	1.148	0.379	22.3
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	9400/1880	1:1	0.143	0.03	23.70	24.30	1.148	0.164	22.3
Back side	RMC	9400/1880	1:1	0.330	0.07	23.70	24.30	1.148	0.379	22.3
Left side	RMC	9400/1880	1:1	0.092	0.16	23.70	24.30	1.148	0.106	22.3
Bottom side	RMC	9400/1880	1:1	0.528	-0.08	23.70	24.30	1.148	0.606	22.3
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	9400/1880	1:1	0.457	-0.18	19.21	20.00	1.199	0.548	22.3
Left tilted	RMC	9400/1880	1:1	0.581	-0.07	19.21	20.00	1.199	0.697	22.3
Right cheek	RMC	9400/1880	1:1	0.615	-0.10	19.21	20.00	1.199	0.738	22.3
Right tilted	RMC	9400/1880	1:1	0.663	-0.09	19.21	20.00	1.199	0.795	22.3
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	9400/1880	1:1	0.294	0.19	22.30	23.10	1.202	0.353	22.3
Back side	RMC	9400/1880	1:1	0.364	-0.13	22.30	23.10	1.202	0.438	22.3
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	9400/1880	1:1	0.294	0.19	22.30	23.10	1.202	0.353	22.3
Back side	RMC	9400/1880	1:1	0.364	-0.13	22.30	23.10	1.202	0.438	22.3
Left side	RMC	9400/1880	1:1	0.172	-0.13	22.30	23.10	1.202	0.207	22.3
Top side	RMC	9400/1880	1:1	0.032	0.01	22.30	23.10	1.202	0.038	22.3

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8.2.4 SAR Result of WCDMA Band IV

WCDMA Band IV SAR Test Record										
Ant 3 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	1412/1732.4	1:1	0.089	0.01	24.15	24.80	1.161	0.103	22.1
Left tilted	RMC	1412/1732.4	1:1	0.059	-0.14	24.15	24.80	1.161	0.068	22.1
Right cheek	RMC	1412/1732.4	1:1	0.124	-0.01	24.15	24.80	1.161	0.144	22.1
Right tilted	RMC	1412/1732.4	1:1	0.066	-0.19	24.15	24.80	1.161	0.077	22.1
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	1412/1732.4	1:1	0.291	0.08	22.97	23.60	1.156	0.336	22.1
Back side	RMC	1412/1732.4	1:1	0.554	-0.14	22.97	23.60	1.156	0.640	22.1
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	1412/1732.4	1:1	0.291	0.08	22.97	23.60	1.156	0.336	22.1
Back side	RMC	1412/1732.4	1:1	0.554	-0.14	22.97	23.60	1.156	0.640	22.1
Left side	RMC	1412/1732.4	1:1	0.135	-0.07	22.97	23.60	1.156	0.156	22.1
Bottom side	RMC	1412/1732.4	1:1	0.721	-0.04	22.97	23.60	1.156	0.834	22.1
Bottom side	RMC	1312/1712.4	1:1	0.689	-0.11	22.87	23.60	1.183	0.815	22.1
Bottom side	RMC	1513/1752.6	1:1	0.703	0.17	22.90	23.60	1.175	0.826	22.1
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	1412/1732.4	1:1	0.409	0.06	21.68	22.70	1.265	0.517	22.1
Left tilted	RMC	1412/1732.4	1:1	0.522	-0.06	21.68	22.70	1.265	0.660	22.1
Right cheek	RMC	1412/1732.4	1:1	0.614	-0.19	21.68	22.70	1.265	0.777	22.1
Right tilted	RMC	1412/1732.4	1:1	0.709	0.09	21.68	22.70	1.265	0.897	22.1
Right tilted	RMC	1312/1712.4	1:1	0.684	-0.03	21.54	22.70	1.306	0.893	22.1
Right tilted	RMC	1513/1752.6	1:1	0.677	0.09	21.52	22.70	1.312	0.888	22.1
Head Test Data(State10)										
Left cheek	RMC	1412/1732.4	1:1	0.409	0.06	21.68	22.20	1.127	0.461	22.1
Left tilted	RMC	1412/1732.4	1:1	0.522	-0.06	21.68	22.20	1.127	0.588	22.1
Right cheek	RMC	1412/1732.4	1:1	0.614	-0.19	21.68	22.20	1.127	0.692	22.1
Right tilted	RMC	1412/1732.4	1:1	0.709	0.09	21.68	22.20	1.127	0.799	22.1
Right tilted	RMC	1312/1712.4	1:1	0.684	-0.03	21.54	22.20	1.164	0.796	22.1
Right tilted	RMC	1513/1752.6	1:1	0.677	0.09	21.52	22.20	1.169	0.792	22.1
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	1412/1732.4	1:1	0.208	-0.15	22.62	23.80	1.312	0.273	22.1
Back side	RMC	1412/1732.4	1:1	0.266	-0.11	22.62	23.80	1.312	0.349	22.1
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	1412/1732.4	1:1	0.208	-0.15	22.62	23.80	1.312	0.273	22.1
Back side	RMC	1412/1732.4	1:1	0.266	-0.11	22.62	23.80	1.312	0.349	22.1
Left side	RMC	1412/1732.4	1:1	0.143	0.10	22.62	23.80	1.312	0.188	22.1
Top side	RMC	1412/1732.4	1:1	0.001	0.09	22.62	23.80	1.312	0.001	22.1

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8.2.5 SAR Result of WCDMA Band V

WCDMA Band V SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	4182/836.4	1:1	0.063	0.08	23.60	24.80	1.318	0.083	22.2
Left tilted	RMC	4182/836.4	1:1	0.001	-0.12	23.60	24.80	1.318	0.001	22.2
Right cheek	RMC	4182/836.4	1:1	0.082	0.09	23.60	24.80	1.318	0.108	22.2
Right tilted	RMC	4182/836.4	1:1	0.001	0.01	23.60	24.80	1.318	0.001	22.2
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	4182/836.4	1:1	0.077	-0.18	23.60	24.80	1.318	0.102	22.2
Back side	RMC	4182/836.4	1:1	0.098	-0.05	23.60	24.80	1.318	0.129	22.2
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	4182/836.4	1:1	0.077	-0.18	23.60	24.80	1.318	0.102	22.2
Back side	RMC	4182/836.4	1:1	0.098	-0.05	23.60	24.80	1.318	0.129	22.2
Right side	RMC	4182/836.4	1:1	0.086	-0.19	23.60	24.80	1.318	0.113	22.2
Bottom side	RMC	4182/836.4	1:1	0.056	0.19	23.60	24.80	1.318	0.074	22.2
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(State4)										
Left cheek	RMC	4182/836.4	1:1	0.136	0.09	23.69	24.80	1.291	0.176	22.2
Left tilted	RMC	4182/836.4	1:1	0.012	-0.05	23.69	24.80	1.291	0.015	22.2
Right cheek	RMC	4182/836.4	1:1	0.053	-0.01	23.69	24.80	1.291	0.068	22.2
Right tilted	RMC	4182/836.4	1:1	0.001	-0.07	23.69	24.80	1.291	0.001	22.2
Body worn Test data(Separate 15mm)(State1)										
Front side	RMC	4182/836.4	1:1	0.061	0.15	23.69	24.80	1.291	0.079	22.2
Back side	RMC	4182/836.4	1:1	0.071	0.05	23.69	24.80	1.291	0.092	22.2
Hotspot Test data(Separate 10mm)(State7)										
Front side	RMC	4182/836.4	1:1	0.061	0.15	23.69	24.80	1.291	0.079	22.2
Back side	RMC	4182/836.4	1:1	0.071	0.05	23.69	24.80	1.291	0.092	22.2
Left side	RMC	4182/836.4	1:1	0.137	-0.07	23.69	24.80	1.291	0.177	22.2



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Right tilted	20	QPSK 100_0	18900/1880	1:1	0.584	-0.03	19.56	20.90	1.361	0.795	22.3
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.351	0.14	23.11	24.30	1.315	0.462	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.424	-0.05	23.11	24.30	1.315	0.558	22.3
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.283	-0.16	22.07	23.30	1.327	0.376	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.344	-0.07	22.07	23.30	1.327	0.457	22.3
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.351	0.14	23.11	24.30	1.315	0.462	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.424	-0.05	23.11	24.30	1.315	0.558	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.262	-0.15	23.11	24.30	1.315	0.345	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	0.792	-0.05	23.11	24.30	1.315	1.042	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	0.764	0.18	23.04	24.30	1.337	1.021	22.3
Top side	20	QPSK 1_0	19100/1900	1:1	0.781	0.06	23.07	24.30	1.327	1.037	22.3
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.283	-0.16	22.07	23.30	1.327	0.376	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.344	-0.07	22.07	23.30	1.327	0.457	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.177	0.14	22.07	23.30	1.327	0.235	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	0.729	0.08	22.07	23.30	1.327	0.968	22.3
Top side	20	QPSK 50_0	18700/1860	1:1	0.703	-0.05	21.96	23.30	1.361	0.957	22.3
Top side	20	QPSK 50_0	19100/1900	1:1	0.714	-0.04	22.03	23.30	1.340	0.957	22.3
Hotspot Test data (Separate 10mm 100%RB)(State7)											
Top side	20	QPSK 100_0	18900/1880	1:1	0.684	0.06	21.79	23.30	1.416	0.968	22.3

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8.2.7 SAR Result of LTE Band 4

LTE Band 4 SAR Test Record											
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.377	-0.11	21.97	23.20	1.327	0.500	22.1
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.419	0.12	21.97	23.20	1.327	0.556	22.1
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.556	0.13	21.97	23.20	1.327	0.738	22.1
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.632	0.02	21.97	23.20	1.327	0.839	22.1
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.360	0.09	21.75	23.20	1.396	0.503	22.1
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.405	0.15	21.75	23.20	1.396	0.566	22.1
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.534	-0.19	21.75	23.20	1.396	0.746	22.1
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.581	-0.14	21.75	23.20	1.396	0.811	22.1
Head Test Data (100%RB)(State4)											
Right tilted	20	QPSK 100_0	20175/1732.5	1:1	0.536	-0.12	21.62	23.20	1.439	0.771	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.208	-0.19	23.08	24.60	1.419	0.295	22.1
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.279	-0.02	23.08	24.60	1.419	0.396	22.1
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.189	0.16	21.97	23.60	1.455	0.275	22.1
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.255	-0.18	21.97	23.60	1.455	0.371	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.208	-0.19	23.08	24.60	1.419	0.295	22.1
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.279	-0.02	23.08	24.60	1.419	0.396	22.1
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.105	0.09	23.08	24.60	1.419	0.149	22.1
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.368	-0.02	23.08	24.60	1.419	0.522	22.1
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.189	0.16	21.97	23.60	1.455	0.275	22.1
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.255	-0.18	21.97	23.60	1.455	0.371	22.1
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.089	0.06	21.97	23.60	1.455	0.130	22.1
Top side	20	QPSK 50_0	20175/1732.5	1:1	0.347	0.13	21.97	23.60	1.455	0.505	22.1
Ant 5 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.455	0.03	21.59	21.80	1.050	0.478	22.1
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.241	0.10	21.59	21.80	1.050	0.253	22.1
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.096	-0.03	21.59	21.80	1.050	0.101	22.1
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.071	0.19	21.59	21.80	1.050	0.075	22.1
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.428	-0.16	20.45	20.80	1.084	0.464	22.1
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.216	0.03	20.45	20.80	1.084	0.234	22.1
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.081	0.03	20.45	20.80	1.084	0.088	22.1
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.059	0.17	20.45	20.80	1.084	0.064	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.086	0.09	21.59	21.80	1.050	0.090	22.1
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.091	0.12	21.59	21.80	1.050	0.096	22.1



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Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.083	-0.12	20.45	20.80	1.084	0.090	22.1
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.088	0.05	20.45	20.80	1.084	0.095	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.086	0.09	21.59	21.80	1.050	0.090	22.1
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.091	0.12	21.59	21.80	1.050	0.096	22.1
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.132	-0.11	21.59	21.80	1.050	0.139	22.1
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.044	-0.17	21.59	21.80	1.050	0.046	22.1
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.083	-0.12	20.45	20.80	1.084	0.090	22.1
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.088	0.05	20.45	20.80	1.084	0.095	22.1
Right side	20	QPSK 50_0	20175/1732.5	1:1	0.127	-0.08	20.45	20.80	1.084	0.138	22.1
Top side	20	QPSK 50_0	20175/1732.5	1:1	0.039	0.16	20.45	20.80	1.084	0.042	22.1

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8.2.8 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.034	-0.02	22.78	24.00	1.324	0.045	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.001	0.06	22.78	24.00	1.324	0.001	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.041	0.04	22.78	24.00	1.324	0.054	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.001	0.14	22.78	24.00	1.324	0.001	22.1
Right cheek-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.036	-0.18	22.73	24.00	1.340	0.048	22.1
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.029	0.08	21.75	23.00	1.334	0.039	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.001	0.12	21.75	23.00	1.334	0.001	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.035	0.13	21.75	23.00	1.334	0.047	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.001	-0.07	21.75	23.00	1.334	0.001	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.068	0.04	20.99	22.20	1.321	0.090	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.118	-0.12	20.99	22.20	1.321	0.156	22.1
Back side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.114	-0.08	20.94	22.20	1.337	0.152	22.1
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.063	0.05	20.90	22.20	1.349	0.085	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.101	0.08	20.90	22.20	1.349	0.136	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.068	0.04	20.99	22.20	1.321	0.090	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.118	-0.12	20.99	22.20	1.321	0.156	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.001	0.11	20.99	22.20	1.321	0.001	22.1
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.157	0.03	20.99	22.20	1.321	0.207	22.1
Bottom side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.153	-0.12	20.94	22.20	1.337	0.204	22.1
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.063	0.05	20.90	22.20	1.349	0.085	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.101	0.08	20.90	22.20	1.349	0.136	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.028	-0.07	20.90	22.20	1.349	0.038	22.1
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.141	0.10	20.90	22.20	1.349	0.190	22.1
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.307	-0.01	16.59	18.10	1.416	0.435	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.378	-0.05	16.59	18.10	1.416	0.535	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.372	-0.08	16.59	18.10	1.416	0.527	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.583	-0.01	16.59	18.10	1.416	0.825	22.1
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.559	-0.17	16.43	18.10	1.469	0.821	22.1
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.567	0.16	16.48	18.10	1.452	0.823	22.1

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Right tilted-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.577	-0.17	16.56	18.10	1.426	0.823	22.1
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.284	0.04	16.55	18.10	1.429	0.406	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.359	0.04	16.55	18.10	1.429	0.513	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.336	0.01	16.55	18.10	1.429	0.480	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.536	-0.13	16.55	18.10	1.429	0.766	22.1
Head Test Data (100%RB)(State4)											
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.519	-0.12	16.53	18.10	1.435	0.745	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.153	0.12	19.16	20.70	1.426	0.218	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.276	-0.07	19.16	20.70	1.426	0.393	22.1
Back side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.268	-0.02	19.13	20.70	1.435	0.385	22.1
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.147	0.16	19.13	20.70	1.435	0.211	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.256	0.08	19.13	20.70	1.435	0.367	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.153	0.12	19.16	20.70	1.426	0.218	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.276	-0.07	19.16	20.70	1.426	0.393	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.117	0.13	19.16	20.70	1.426	0.167	22.1
Top side	20	QPSK 1_0	21100/2535	1:1	0.361	-0.07	19.16	20.70	1.426	0.515	22.1
Top side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.357	-0.18	19.13	20.70	1.435	0.512	22.1
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.147	0.16	19.13	20.70	1.435	0.211	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.256	0.08	19.13	20.70	1.435	0.367	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.105	-0.14	19.13	20.70	1.435	0.151	22.1
Top side	20	QPSK 50_0	21100/2535	1:1	0.284	0.17	19.13	20.70	1.435	0.408	22.1
Ant 5 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.698	-0.01	19.68	20.80	1.294	0.903	22.1
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.683	0.18	19.62	20.80	1.312	0.896	22.1
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.689	0.17	19.63	20.80	1.309	0.902	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.343	-0.19	19.68	20.80	1.294	0.444	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.161	0.13	19.68	20.80	1.294	0.208	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.147	0.03	19.68	20.80	1.294	0.190	22.1
Left cheek-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.689	-0.01	19.63	20.80	1.309	0.902	22.1
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.635	0.01	18.36	19.80	1.393	0.885	22.1
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.630	0.02	18.31	19.80	1.409	0.888	22.1
Left cheek	20	QPSK 50_0	21350/2560	1:1	0.631	0.01	18.35	19.80	1.396	0.881	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.311	0.06	18.36	19.80	1.393	0.433	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.132	-0.10	18.36	19.80	1.393	0.184	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.120	0.03	18.36	19.80	1.393	0.167	22.1

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Head Test Data (100%RB)(State4)											
Left cheek	20	QPSK 100_0	21100/2535	1:1	0.626	0.19	18.38	19.80	1.387	0.868	22.1
Head Test Data (1RB) State10											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.698	-0.01	19.68	17.30	0.578	0.404	22.1
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.683	-0.13	19.62	17.30	0.586	0.400	22.1
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.689	-0.16	19.63	17.30	0.585	0.403	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.343	-0.03	19.68	17.30	0.578	0.198	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.161	0.08	19.68	17.30	0.578	0.093	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.147	-0.17	19.68	17.30	0.578	0.085	22.1
Left cheek-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.689	-0.09	19.63	17.30	0.585	0.403	22.1
		QPSK 1_99	20902/2515.2								
Head Test Data (50%RB) State10											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.635	-0.07	18.36	17.30	0.783	0.497	22.1
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.630	0.13	18.31	17.30	0.793	0.499	22.1
Left cheek	20	QPSK 50_0	21350/2560	1:1	0.631	0.07	18.35	17.30	0.785	0.495	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.311	-0.14	18.36	17.30	0.783	0.244	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.132	0.17	18.36	17.30	0.783	0.103	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.120	0.17	18.36	17.30	0.783	0.094	22.1
Head Test Data (100%RB) State10											
Left cheek	20	QPSK 100_0	21100/2535	1:1	0.626	0.11	18.38	17.30	0.780	0.488	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.157	0.17	19.68	20.80	1.294	0.203	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.180	-0.14	19.68	20.80	1.294	0.233	22.1
Back side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.174	0.11	19.63	20.80	1.309	0.228	22.1
		QPSK 1_99	20902/2515.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.116	0.08	18.36	19.80	1.393	0.162	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.157	0.06	18.36	19.80	1.393	0.219	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.157	0.17	19.68	20.80	1.294	0.203	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.180	-0.14	19.68	20.80	1.294	0.233	22.1
Right side	20	QPSK 1_0	21100/2535	1:1	0.323	-0.08	19.68	20.80	1.294	0.418	22.1
Top side	20	QPSK 1_0	21100/2535	1:1	0.107	-0.01	19.68	20.80	1.294	0.138	22.1
Right side-UL CA-7C	20	QPSK 1_0	21100/2535	1:1	0.315	0.14	19.63	20.80	1.309	0.412	22.1
		QPSK 1_99	20902/2515.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.116	0.08	18.36	19.80	1.393	0.162	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.157	0.06	18.36	19.80	1.393	0.219	22.1
Right side	20	QPSK 50_0	21100/2535	1:1	0.241	-0.05	18.36	19.80	1.393	0.336	22.1
Top side	20	QPSK 50_0	21100/2535	1:1	0.084	0.01	18.36	19.80	1.393	0.117	22.1

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8.2.9 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.010	0.03	24.15	24.60	1.109	0.011	21.9
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.001	0.18	24.15	24.60	1.109	0.001	21.9
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.011	-0.15	24.15	24.60	1.109	0.012	21.9
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.001	-0.05	24.15	24.60	1.109	0.001	21.9
Head Test Data (50%RB)(State4)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.006	0.12	23.26	23.60	1.081	0.006	21.9
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.001	0.18	23.26	23.60	1.081	0.001	21.9
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.010	-0.10	23.26	23.60	1.081	0.011	21.9
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.001	0.19	23.26	23.60	1.081	0.001	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.088	-0.03	24.15	24.60	1.109	0.098	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.104	0.07	24.15	24.60	1.109	0.115	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.074	-0.17	23.26	23.60	1.081	0.080	21.9
Back side	10	QPSK 25_0	23095/707.5	1:1	0.090	0.05	23.26	23.60	1.081	0.097	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.088	-0.03	24.15	24.60	1.109	0.098	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.104	0.07	24.15	24.60	1.109	0.115	21.9
Right side	10	QPSK 1_0	23095/707.5	1:1	0.081	-0.14	24.15	24.60	1.109	0.090	21.9
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.056	0.16	24.15	24.60	1.109	0.062	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.074	-0.17	23.26	23.60	1.081	0.080	21.9
Back side	10	QPSK 25_0	23095/707.5	1:1	0.090	0.05	23.26	23.60	1.081	0.097	21.9
Right side	10	QPSK 25_0	23095/707.5	1:1	0.075	0.11	23.26	23.60	1.081	0.081	21.9
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.048	0.05	23.26	23.60	1.081	0.052	21.9
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.082	-0.04	23.67	24.60	1.239	0.101	21.9
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.024	-0.13	23.67	24.60	1.239	0.029	21.9
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.224	0.05	23.67	24.60	1.239	0.277	21.9
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.028	0.11	23.67	24.60	1.239	0.035	21.9
Head Test Data (50%RB)(State4)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.069	0.13	22.79	23.60	1.205	0.083	21.9
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.013	-0.09	22.79	23.60	1.205	0.016	21.9
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.201	0.09	22.79	23.60	1.205	0.242	21.9
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.019	0.10	22.79	23.60	1.205	0.023	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.207	-0.19	23.67	24.60	1.239	0.256	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.230	-0.13	23.67	24.60	1.239	0.285	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.174	-0.04	22.79	23.60	1.205	0.210	21.9



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Back side	10	QPSK 25_0	23095/707.5	1:1	0.195	-0.11	22.79	23.60	1.205	0.235	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.207	-0.19	23.67	24.60	1.239	0.256	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.230	-0.13	23.67	24.60	1.239	0.285	21.9
Left side	10	QPSK 1_0	23095/707.5	1:1	0.523	-0.13	23.67	24.60	1.239	0.648	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.174	-0.04	22.79	23.60	1.205	0.210	21.9
Back side	10	QPSK 25_0	23095/707.5	1:1	0.195	-0.11	22.79	23.60	1.205	0.235	21.9
Left side	10	QPSK 25_0	23095/707.5	1:1	0.427	-0.05	22.79	23.60	1.205	0.515	21.9

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8.2.10 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.076	0.04	23.98	24.60	1.153	0.088	21.9
Left tilted	10	QPSK 1_0	23230/782	1:1	0.049	-0.14	23.98	24.60	1.153	0.057	21.9
Right cheek	10	QPSK 1_0	23230/782	1:1	0.093	-0.01	23.98	24.60	1.153	0.107	21.9
Right tilted	10	QPSK 1_0	23230/782	1:1	0.063	-0.02	23.98	24.60	1.153	0.073	21.9
Head Test Data (50%RB)(State4)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.062	0.18	22.91	23.60	1.172	0.073	21.9
Left tilted	10	QPSK 25_0	23230/782	1:1	0.035	0.06	22.91	23.60	1.172	0.041	21.9
Right cheek	10	QPSK 25_0	23230/782	1:1	0.084	-0.11	22.91	23.60	1.172	0.098	21.9
Right tilted	10	QPSK 25_0	23230/782	1:1	0.051	0.09	22.91	23.60	1.172	0.060	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	10	QPSK 1_0	23230/782	1:1	0.139	-0.04	23.98	24.60	1.153	0.160	21.9
Back side	10	QPSK 1_0	23230/782	1:1	0.155	-0.07	23.98	24.60	1.153	0.179	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	10	QPSK 25_0	23230/782	1:1	0.106	0.13	22.91	23.60	1.172	0.124	21.9
Back side	10	QPSK 25_0	23230/782	1:1	0.129	-0.09	22.91	23.60	1.172	0.151	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	10	QPSK 1_0	23230/782	1:1	0.139	-0.04	23.98	24.60	1.153	0.160	21.9
Back side	10	QPSK 1_0	23230/782	1:1	0.155	-0.07	23.98	24.60	1.153	0.179	21.9
Right side	10	QPSK 1_0	23230/782	1:1	0.142	-0.02	23.98	24.60	1.153	0.164	21.9
Bottom side	10	QPSK 1_0	23230/782	1:1	0.087	0.06	23.98	24.60	1.153	0.100	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	10	QPSK 25_0	23230/782	1:1	0.106	0.13	22.91	23.60	1.172	0.124	21.9
Back side	10	QPSK 25_0	23230/782	1:1	0.129	-0.09	22.91	23.60	1.172	0.151	21.9
Right side	10	QPSK 25_0	23230/782	1:1	0.147	-0.03	22.91	23.60	1.172	0.172	21.9
Bottom side	10	QPSK 25_0	23230/782	1:1	0.083	0.01	22.91	23.60	1.172	0.097	21.9
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.061	0.09	23.67	24.60	1.239	0.076	21.9
Left tilted	10	QPSK 1_0	23230/782	1:1	0.016	-0.16	23.67	24.60	1.239	0.020	21.9
Right cheek	10	QPSK 1_0	23230/782	1:1	0.137	0.06	23.67	24.60	1.239	0.170	21.9
Right tilted	10	QPSK 1_0	23230/782	1:1	0.027	-0.1	23.67	24.60	1.239	0.033	21.9
Head Test Data (50%RB)(State4)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.049	0.09	22.58	23.60	1.265	0.062	21.9
Left tilted	10	QPSK 25_0	23230/782	1:1	0.007	-0.17	22.58	23.60	1.265	0.009	21.9
Right cheek	10	QPSK 25_0	23230/782	1:1	0.103	0.07	22.58	23.60	1.265	0.130	21.9
Right tilted	10	QPSK 25_0	23230/782	1:1	0.012	0.05	22.58	23.60	1.265	0.015	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	10	QPSK 1_0	23230/782	1:1	0.140	0.08	23.67	24.60	1.239	0.173	21.9
Back side	10	QPSK 1_0	23230/782	1:1	0.152	-0.06	23.67	24.60	1.239	0.188	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	10	QPSK 25_0	23230/782	1:1	0.102	-0.07	22.58	23.60	1.265	0.129	21.9



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Back side	10	QPSK 25_0	23230/782	1:1	0.111	-0.19	22.58	23.60	1.265	0.140	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	10	QPSK 1_0	23230/782	1:1	0.140	0.08	23.67	24.60	1.239	0.173	21.9
Back side	10	QPSK 1_0	23230/782	1:1	0.152	-0.06	23.67	24.60	1.239	0.188	21.9
Left side	10	QPSK 1_0	23230/782	1:1	0.367	-0.04	23.67	24.60	1.239	0.455	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	10	QPSK 25_0	23230/782	1:1	0.102	-0.07	22.58	23.60	1.265	0.129	21.9
Back side	10	QPSK 25_0	23230/782	1:1	0.111	-0.19	22.58	23.60	1.265	0.140	21.9
Left side	10	QPSK 25_0	23230/782	1:1	0.295	0.16	22.58	23.60	1.265	0.373	21.9

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8.2.11 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.021	-0.11	24.38	24.80	1.102	0.023	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.001	0.17	24.38	24.80	1.102	0.001	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.026	0.11	24.38	24.80	1.102	0.029	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.001	-0.02	24.38	24.80	1.102	0.001	22.2
Head Test Data (50%RB)(State4)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.016	-0.18	23.40	23.80	1.096	0.018	22.2
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.001	0.03	23.40	23.80	1.096	0.001	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.023	-0.16	23.40	23.80	1.096	0.025	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.001	-0.04	23.40	23.80	1.096	0.001	22.2
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.084	-0.17	24.38	24.80	1.102	0.093	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.097	-0.08	24.38	24.80	1.102	0.107	22.2
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.063	0.01	23.40	23.80	1.096	0.069	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.081	0.08	23.40	23.80	1.096	0.089	22.2
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.084	-0.17	24.38	24.80	1.102	0.093	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.097	-0.08	24.38	24.80	1.102	0.107	22.2
Right side	15	QPSK 1_0	26865/831.5	1:1	0.094	-0.13	24.38	24.80	1.102	0.104	22.2
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.064	0.04	24.38	24.80	1.102	0.070	22.2
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.063	0.01	23.40	23.80	1.096	0.069	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.081	0.08	23.40	23.80	1.096	0.089	22.2
Right side	15	QPSK 36_0	26865/831.5	1:1	0.098	0.09	23.40	23.80	1.096	0.107	22.2
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.048	0.05	23.40	23.80	1.096	0.053	22.2
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.127	0.01	23.94	24.80	1.219	0.155	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.011	0.10	23.94	24.80	1.219	0.013	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.058	-0.04	23.94	24.80	1.219	0.071	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.001	-0.07	23.94	24.80	1.219	0.001	22.2
Head Test Data (50%RB)(State4)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.106	-0.01	22.97	23.80	1.211	0.128	22.2
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.006	-0.11	22.97	23.80	1.211	0.007	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.043	0.16	22.97	23.80	1.211	0.052	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.001	0.02	22.97	23.80	1.211	0.001	22.2
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.055	0.09	23.94	24.80	1.219	0.067	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.061	0.18	23.94	24.80	1.219	0.074	22.2
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.043	0.12	22.97	23.80	1.211	0.052	22.2



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Back side	15	QPSK 36_0	26865/831.5	1:1	0.048	-0.13	22.97	23.80	1.211	0.058	22.2
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.055	0.09	23.94	24.80	1.219	0.067	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.061	0.18	23.94	24.80	1.219	0.074	22.2
Left side	15	QPSK 1_0	26865/831.5	1:1	0.143	-0.02	23.94	24.80	1.219	0.174	22.2
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.043	0.12	22.97	23.80	1.211	0.052	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.048	-0.13	22.97	23.80	1.211	0.058	22.2
Left side	15	QPSK 36_0	26865/831.5	1:1	0.106	0.06	22.97	23.80	1.211	0.128	22.2

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8.2.12 SAR Result of LTE Band 38

LTE Band 38 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.030	0.13	23.40	24.30	1.230	0.036	22.1
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.001	0.09	23.40	24.30	1.230	0.001	22.1
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.035	-0.14	23.40	24.30	1.230	0.043	22.1
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.001	-0.03	23.40	24.30	1.230	0.001	22.1
Right cheek-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.031	-0.19	23.33	24.30	1.250	0.039	22.1
		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.026	0.05	22.26	23.30	1.271	0.033	22.1
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.001	-0.13	22.26	23.30	1.271	0.001	22.1
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.029	-0.16	22.26	23.30	1.271	0.037	22.1
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.001	0.10	22.26	23.30	1.271	0.001	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.076	0.13	23.40	24.30	1.230	0.094	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.155	-0.10	23.40	24.30	1.230	0.191	22.1
Back side-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.146	-0.10	23.33	24.30	1.250	0.183	22.1
		QPSK 1_99	37901/2585.1								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.069	0.18	22.26	23.30	1.271	0.088	22.1
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.146	-0.17	22.26	23.30	1.271	0.186	
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.076	0.13	23.40	24.30	1.230	0.094	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.155	-0.10	23.40	24.30	1.230	0.191	
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.038	0.18	23.40	24.30	1.230	0.047	22.1
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.203	0.15	23.40	24.30	1.230	0.250	
Bottom side-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.197	-0.14	23.33	24.30	1.250	0.246	22.1
		QPSK 1_99	37901/2585.1								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.069	0.18	22.26	23.30	1.271	0.088	22.1
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.146	-0.17	22.26	23.30	1.271	0.186	22.1
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.033	0.05	22.26	23.30	1.271	0.042	22.1
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.184	-0.19	22.26	23.30	1.271	0.234	22.1
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.216	0.06	19.29	20.60	1.352	0.292	22.1
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.306	0.15	19.29	20.60	1.352	0.414	22.1
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.353	-0.04	19.29	20.60	1.352	0.477	22.1
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.658	-0.07	19.29	20.60	1.352	0.890	22.1
Right tilted-Repeat SAR	20	QPSK 1_0	38000/2595	1:1.58	0.653	0.06	19.29	20.60	1.352	0.883	22.1
Right tilted-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.643	0.02	19.23	20.60	1.371	0.881	22.1

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		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.182	-0.08	19.25	20.60	1.365	0.248	22.1
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.283	0.02	19.25	20.60	1.365	0.386	22.1
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.330	0.02	19.25	20.60	1.365	0.450	22.1
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.631	0.03	19.25	20.60	1.365	0.861	22.1
Head Test Data (100%RB)(State1)											
Right tilted	20	QPSK 100_0	38000/2595	1:1.58	0.618	-0.18	19.09	20.60	1.416	0.875	22.1
Head Test Data (1RB)(State10)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.216	0.06	19.29	18.60	0.853	0.184	22.1
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.306	0.15	19.29	18.60	0.853	0.261	22.1
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.353	-0.04	19.29	18.60	0.853	0.301	22.1
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.658	-0.07	19.29	18.60	0.853	0.561	22.1
Right tilted-Repeat SAR	20	QPSK 1_0	38000/2595	1:1.58	0.653	0.06	19.29	18.60	0.853	0.557	22.1
Right tilted-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.643	0.02	19.23	18.60	0.865	0.556	22.1
		QPSK 1_99	37901/2585.1								
Head Test Data (50%RB)(State10)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.182	-0.08	19.25	18.60	0.861	0.157	22.1
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.283	0.02	19.25	18.60	0.861	0.244	22.1
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.330	0.02	19.25	18.60	0.861	0.284	22.1
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.631	0.03	19.25	18.60	0.861	0.543	22.1
Head Test Data (100%RB)(State10)											
Right tilted	20	QPSK 100_0	38000/2595	1:1.58	0.618	-0.18	19.09	18.60	0.893	0.552	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.136	0.11	21.97	23.10	1.297	0.176	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.241	0.09	21.97	23.10	1.297	0.313	22.1
Back side-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.229	-0.08	21.91	23.10	1.315	0.301	22.1
		QPSK 1_99	37901/2585.1								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.129	-0.11	21.55	22.80	1.334	0.172	22.1
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.228	0.17	21.55	22.80	1.334	0.304	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.136	0.11	21.97	23.10	1.297	0.176	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.241	0.09	21.97	23.10	1.297	0.313	22.1
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.112	-0.14	21.97	23.10	1.297	0.145	22.1
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.278	-0.01	21.97	23.10	1.297	0.361	22.1
Top side-UL CA-38C	20	QPSK 1_0	38099/2604.9	1:1.58	0.259	-0.18	21.91	23.10	1.315	0.341	22.1
		QPSK 1_99	37901/2585.1								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.129	-0.11	21.55	22.80	1.334	0.172	22.1
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.228	0.17	21.55	22.80	1.334	0.304	22.1
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.105	0.12	21.55	22.80	1.334	0.140	22.1
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.262	-0.14	21.55	22.80	1.334	0.349	22.1



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	38000/2595	0.864	0.857	1.008	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						
5) 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. The repeated measurement results must be clearly identified in the SAR report.						

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8.2.13 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.034	0.17	23.36	24.80	1.393	0.047	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.001	-0.19	23.36	24.80	1.393	0.001	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.038	0.18	23.36	24.80	1.393	0.053	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.001	-0.11	23.36	24.80	1.393	0.001	22.1
Right cheek-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.033	-0.19	23.33	24.80	1.403	0.046	22.1
	20	QPSK 1_99	40422/2573.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.029	0.07	22.44	23.80	1.368	0.040	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.001	-0.17	22.44	23.80	1.368	0.001	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.033	-0.12	22.44	23.80	1.368	0.045	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.001	0.03	22.44	23.80	1.368	0.001	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.083	0.11	22.94	24.30	1.368	0.114	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.162	-0.02	22.94	24.30	1.368	0.222	22.1
Back side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.154	0.14	22.92	24.30	1.374	0.212	22.1
		QPSK 1_99	40422/2573.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.073	0.06	22.31	23.80	1.409	0.103	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.151	0.11	22.31	23.80	1.409	0.213	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.083	0.11	22.94	24.30	1.368	0.114	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.162	-0.02	22.94	24.30	1.368	0.222	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.043	-0.09	22.94	24.30	1.368	0.059	22.1
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.199	-0.04	22.94	24.30	1.368	0.272	22.1
Bottom side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.191	-0.14	22.92	24.30	1.374	0.262	22.1
		QPSK 1_99	40422/2573.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.073	0.06	22.31	23.80	1.409	0.103	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.151	0.11	22.31	23.80	1.409	0.213	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.040	-0.09	22.31	23.80	1.409	0.056	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.167	-0.15	22.31	23.80	1.409	0.235	22.1
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.245	-0.08	18.77	19.80	1.268	0.311	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.359	-0.09	18.77	19.80	1.268	0.455	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.403	-0.17	18.77	19.80	1.268	0.511	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.713	-0.06	18.77	19.80	1.268	0.904	22.1
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.702	-0.07	18.72	19.80	1.282	0.900	22.1
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.694	-0.11	18.68	19.80	1.294	0.898	22.1



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Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.695	0.04	18.67	19.80	1.297	0.902	22.1
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.706	0.10	18.75	19.80	1.274	0.899	22.1
Right tilted-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.706	-0.17	18.75	19.80	1.274	0.899	22.1
		QPSK 1_99	40422/2573.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.220	-0.06	18.71	19.80	1.285	0.283	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.335	0.17	18.71	19.80	1.285	0.431	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.381	-0.02	18.71	19.80	1.285	0.490	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.679	0.12	18.71	19.80	1.285	0.873	22.1
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.669	0.11	18.69	19.80	1.291	0.864	22.1
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.662	-0.07	18.66	19.80	1.300	0.861	22.1
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.664	-0.01	18.63	19.80	1.309	0.869	22.1
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.666	0.04	18.65	19.80	1.303	0.868	22.1
Head Test Data (100%RB)(State4)											
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.655	-0.09	18.65	19.80	1.303	0.854	22.1
Head Test Data (1RB)(State10)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.245	-0.08	18.77	18.80	1.007	0.247	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.359	-0.09	18.77	18.80	1.007	0.361	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.403	-0.17	18.77	18.80	1.007	0.406	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.713	-0.06	18.77	18.80	1.007	0.718	22.1
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.702	-0.07	18.72	18.80	1.019	0.715	22.1
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.694	-0.11	18.68	18.80	1.028	0.713	22.1
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.695	0.04	18.67	18.80	1.030	0.716	22.1
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.706	0.10	18.75	18.80	1.012	0.714	22.1
Right tilted-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.706	-0.17	18.75	18.80	1.012	0.714	22.1
		QPSK 1_99	40422/2573.2								
Head Test Data (50%RB)(State10)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.220	-0.06	18.71	18.80	1.021	0.225	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.335	0.17	18.71	18.80	1.021	0.342	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.381	-0.02	18.71	18.80	1.021	0.389	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.679	0.12	18.71	18.80	1.021	0.693	22.1
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.669	0.11	18.69	18.80	1.026	0.686	22.1
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.662	-0.07	18.66	18.80	1.033	0.684	22.1
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.664	-0.01	18.63	18.80	1.040	0.691	22.1
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.666	0.04	18.65	18.80	1.035	0.689	22.1
Head Test Data (100%RB)(State10)											
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.655	-0.09	18.65	18.80	1.035	0.678	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.125	0.09	21.09	22.40	1.352	0.169	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.229	0.06	21.09	22.40	1.352	0.310	22.1
Back side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.214	-0.19	21.03	22.40	1.371	0.293	22.1
		QPSK 1_99	40422/2573.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.135	0.13	20.88	22.40	1.419	0.192	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.205	0.16	20.88	22.40	1.419	0.291	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.125	0.09	21.09	22.40	1.352	0.169	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.229	0.06	21.09	22.40	1.352	0.310	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.105	0.10	21.09	22.40	1.352	0.142	22.1

Top side	20	QPSK 1_0	40620/2593	1:1.58	0.332	-0.08	21.09	22.40	1.352	0.449	22.1
Top side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.317	-0.04	21.03	22.40	1.371	0.435	22.1
		QPSK 1_99	40422/2573.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.135	0.13	20.88	22.40	1.419	0.192	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.205	0.16	20.88	22.40	1.419	0.291	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.093	0.17	20.88	22.40	1.419	0.132	22.1
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.284	-0.05	20.88	22.40	1.419	0.403	22.1
Ant 5 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.580	0.02	20.34	21.80	1.400	0.812	22.1
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.562	0.18	20.28	21.80	1.419	0.798	22.1
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.570	-0.03	20.31	21.80	1.409	0.803	22.1
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.573	0.02	20.31	21.80	1.409	0.808	22.1
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.575	-0.05	20.33	21.80	1.403	0.807	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.206	-0.01	20.34	21.80	1.400	0.288	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.125	-0.19	20.34	21.80	1.400	0.175	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.120	0.17	20.34	21.80	1.400	0.168	22.1
Left cheek-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.562	0.06	20.31	21.80	1.409	0.792	22.1
		QPSK 1_99	40422/2573.2								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.536	0.02	19.18	20.80	1.452	0.778	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.174	0.02	19.18	20.80	1.452	0.253	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.089	-0.15	19.18	20.80	1.452	0.129	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.076	0.02	19.18	20.80	1.452	0.110	22.1
Head Test Data (100%RB)(State4)											
Left cheek	20	QPSK 100_0	40620/2593	1:1.58	0.511	-0.16	19.15	20.80	1.462	0.747	22.1
Head Test Data (1RB)(State10)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.580	0.02	20.34	19.30	0.787	0.456	22.1
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.562	0.18	20.28	19.30	0.798	0.448	22.1
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.570	-0.03	20.31	19.30	0.793	0.452	22.1
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.573	0.02	20.31	19.30	0.793	0.454	22.1
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.575	-0.05	20.33	19.30	0.789	0.454	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.206	-0.01	20.34	19.30	0.787	0.162	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.125	-0.19	20.34	19.30	0.787	0.098	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.120	0.17	20.34	19.30	0.787	0.094	22.1
Left cheek-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.562	0.06	20.31	19.30	0.793	0.445	22.1
		QPSK 1_99	40422/2573.2								



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Front side	20	QPSK 1_0	40620/2593	1:1.58	0.115	-0.13	20.34	21.80	1.400	0.161	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.131	-0.01	20.34	21.80	1.400	0.183	22.1
Back side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.126	-0.19	20.31	21.80	1.409	0.178	22.1
		QPSK 1_99	40422/2573.2								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.103	0.04	19.18	20.80	1.452	0.150	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.116	-0.13	19.18	20.80	1.452	0.168	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.115	-0.13	20.34	21.80	1.400	0.161	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.131	-0.01	20.34	21.80	1.400	0.183	22.1
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.255	-0.01	20.34	21.80	1.400	0.357	22.1
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.081	0.02	20.34	21.80	1.400	0.113	22.1
Right side-UL CA-41C	20	QPSK 1_0	40620/2593	1:1.58	0.243	-0.01	20.31	21.80	1.409	0.342	22.1
		QPSK 1_99	40422/2573.2								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.103	0.04	19.18	20.80	1.452	0.150	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.116	-0.13	19.18	20.80	1.452	0.168	22.1
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.200	0.07	19.18	20.80	1.452	0.290	22.1
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.063	0.01	19.18	20.80	1.452	0.091	22.1

LTE Band 66 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.076	-0.15	23.42	24.60	1.312	0.100	22.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.059	-0.06	23.42	24.60	1.312	0.077	22.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.120	0.19	23.42	24.60	1.312	0.157	22.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.042	-0.04	23.42	24.60	1.312	0.055	22.1
Right cheek-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.106	0.03	23.39	24.60	1.321	0.140	22.1
		QPSK 1_99	132124/1725.8								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.063	0.12	22.22	23.60	1.374	0.087	22.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.051	-0.19	22.22	23.60	1.374	0.070	22.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.103	0.14	22.22	23.60	1.374	0.142	22.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.035	-0.10	22.22	23.60	1.374	0.048	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.333	-0.13	22.84	24.10	1.337	0.445	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.628	-0.13	22.84	24.10	1.337	0.839	22.1
Back side	20	QPSK 1_0	132072/1720	1:1	0.614	0.19	22.77	24.10	1.358	0.834	22.1
Back side	20	QPSK 1_0	132572/1770	1:1	0.620	-0.01	22.79	24.10	1.352	0.838	22.1
Back side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.611	0.09	22.79	24.10	1.352	0.826	22.1
		QPSK 1_99	132124/1725.8								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.307	0.14	22.33	23.60	1.340	0.411	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.548	0.17	22.33	23.60	1.340	0.734	22.1
Body worn Test data (Separate 15mm 100%RB)(State1)											
Back side	20	QPSK 100_0	132322/1745	1:1	0.539	0.14	22.19	23.60	1.384	0.746	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.333	-0.13	22.84	24.10	1.337	0.445	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.628	-0.13	22.84	24.10	1.337	0.839	22.1
Back side	20	QPSK 1_0	132072/1720	1:1	0.614	0.19	22.77	24.10	1.358	0.834	22.1
Back side	20	QPSK 1_0	132572/1770	1:1	0.620	-0.01	22.79	24.10	1.352	0.838	22.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.127	-0.13	22.84	24.10	1.337	0.170	22.1
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.757	-0.08	22.84	24.10	1.337	1.012	22.1
Bottom side	20	QPSK 1_0	132072/1720	1:1	0.744	0.13	22.77	24.10	1.358	1.011	22.1
Bottom side	20	QPSK 1_0	132572/1770	1:1	0.742	0.07	22.79	24.10	1.352	1.003	22.1
Bottom side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.726	-0.13	22.79	24.10	1.352	0.982	22.1
		QPSK 1_99	132124/1725.8								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.307	0.14	22.33	23.60	1.340	0.411	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.548	0.17	22.33	23.60	1.340	0.734	22.1
Left side	20	QPSK 50_0	132322/1745	1:1	0.124	0.14	22.33	23.60	1.340	0.166	22.1
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.728	-0.16	22.33	23.60	1.340	0.975	22.1
Bottom side	20	QPSK 50_0	132072/1720	1:1	0.716	-0.01	22.28	23.60	1.355	0.970	22.1
Bottom side	20	QPSK 50_0	132572/1770	1:1	0.709	0.12	22.32	23.60	1.343	0.952	22.1
Hotspot Test data (Separate 10mm 50%RB)(State7)											

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Back side	20	QPSK 100_0	132322/1745	1:1	0.539	0.14	22.19	23.60	1.384	0.746	22.1
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.714	0.11	22.19	23.60	1.384	0.988	22.1
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.396	-0.07	21.29	22.60	1.352	0.535	22.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.437	0.04	21.29	22.60	1.352	0.591	22.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.599	0.01	21.29	22.60	1.352	0.810	22.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.670	0.04	21.29	22.60	1.352	0.906	22.1
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.659	0.11	21.25	22.60	1.365	0.899	22.1
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.655	0.03	21.21	22.60	1.377	0.902	22.1
Right tilted-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.643	0.04	21.23	22.60	1.371	0.881	22.1
		QPSK 1_99	132124/1725.8								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.339	-0.13	21.09	22.60	1.416	0.480	22.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.403	0.11	21.09	22.60	1.416	0.571	22.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.528	-0.08	21.09	22.60	1.416	0.748	22.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.631	-0.06	21.09	22.60	1.416	0.893	22.1
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.624	-0.14	21.01	22.60	1.442	0.900	22.1
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.616	-0.03	21.04	22.60	1.432	0.882	22.1
Head Test Data (100%RB)(State4)											
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.611	-0.13	21.05	22.60	1.429	0.873	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.252	0.15	23.24	24.60	1.368	0.345	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.321	0.01	23.24	24.60	1.368	0.439	22.1
Back side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.306	0.03	23.19	24.60	1.384	0.423	22.1
		QPSK 1_99	132124/1725.8								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.223	-0.18	22.11	23.60	1.409	0.314	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.294	0.01	22.11	23.60	1.409	0.414	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.252	0.15	23.24	24.60	1.368	0.345	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.321	0.01	23.24	24.60	1.368	0.439	22.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.130	-0.01	23.24	24.60	1.368	0.178	22.1
Top side	20	QPSK 1_0	132322/1745	1:1	0.440	-0.14	23.24	24.60	1.368	0.602	22.1
Top side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.429	-0.08	23.19	24.60	1.384	0.594	22.1
		QPSK 1_99	132124/1725.8								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.223	-0.18	22.11	23.60	1.409	0.314	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.294	0.01	22.11	23.60	1.409	0.414	22.1
Left side	20	QPSK 50_0	132322/1745	1:1	0.118	0.13	22.11	23.60	1.409	0.166	22.1
Top side	20	QPSK 50_0	132322/1745	1:1	0.387	-0.19	22.11	23.60	1.409	0.545	22.1
Ant 5 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.432	0.11	21.13	21.30	1.040	0.449	22.1

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Left tilted	20	QPSK 1_0	132322/1745	1:1	0.237	-0.10	21.13	21.30	1.040	0.246	22.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.092	-0.17	21.13	21.30	1.040	0.096	22.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.065	-0.04	21.13	21.30	1.040	0.068	22.1
Left cheek-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.417	0.13	21.06	21.30	1.057	0.441	22.1
		QPSK 1_99	132124/1725.8								
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.384	-0.07	20.57	20.80	1.054	0.405	22.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.193	0.17	20.57	20.80	1.054	0.203	22.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.072	0.07	20.57	20.80	1.054	0.076	22.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.039	0.03	20.57	20.80	1.054	0.041	22.1
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.073	0.12	21.69	21.80	1.026	0.075	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.072	0.02	21.69	21.80	1.026	0.074	22.1
Front side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.068	-0.12	21.63	21.80	1.040	0.071	22.1
		QPSK 1_99	132124/1725.8								
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.061	0.17	20.66	20.80	1.033	0.063	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.072	-0.12	20.66	20.80	1.033	0.074	22.1
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.073	0.12	21.69	21.80	1.026	0.075	22.1
Back side	20	QPSK 1_0	132322/1745	1:1	0.072	0.02	21.69	21.80	1.026	0.074	22.1
Right side	20	QPSK 1_0	132322/1745	1:1	0.137	-0.03	21.69	21.80	1.026	0.141	22.1
Top side	20	QPSK 1_0	132322/1745	1:1	0.039	0.10	21.69	21.80	1.026	0.040	22.1
Right side-UL CA-66C	20	QPSK 1_0	132322/1745	1:1	0.126	-0.17	21.63	21.80	1.040	0.131	22.1
		QPSK 1_99	132124/1725.8								
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.061	0.17	20.66	20.80	1.033	0.063	22.1
Back side	20	QPSK 50_0	132322/1745	1:1	0.072	-0.12	20.66	20.80	1.033	0.074	22.1
Right side	20	QPSK 50_0	132322/1745	1:1	0.104	-0.01	20.66	20.80	1.033	0.107	22.1
Top side	20	QPSK 50_0	132322/1745	1:1	0.027	0.04	20.66	20.80	1.033	0.028	22.1

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8.2.15 SAR Result of LTE Band 71

LTE Band 71 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	133322/683	1:1	0.013	0.19	24.36	24.80	1.107	0.014	21.9
Left tilted	20	QPSK 1_0	133322/683	1:1	0.004	0.09	24.36	24.80	1.107	0.004	21.9
Right cheek	20	QPSK 1_0	133322/683	1:1	0.001	0.13	24.36	24.80	1.107	0.001	21.9
Right tilted	20	QPSK 1_0	133322/683	1:1	0.001	-0.02	24.36	24.80	1.107	0.001	21.9
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	133322/683	1:1	0.010	0.11	23.26	23.80	1.132	0.011	21.9
Left tilted	20	QPSK 50_0	133322/683	1:1	0.001	-0.05	23.26	23.80	1.132	0.001	21.9
Right cheek	20	QPSK 50_0	133322/683	1:1	0.001	-0.19	23.26	23.80	1.132	0.001	21.9
Right tilted	20	QPSK 50_0	133322/683	1:1	0.001	-0.18	23.26	23.80	1.132	0.001	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	133322/683	1:1	0.044	-0.13	24.36	24.80	1.107	0.049	21.9
Back side	20	QPSK 1_0	133322/683	1:1	0.056	-0.15	24.36	24.80	1.107	0.062	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	133322/683	1:1	0.040	-0.12	23.26	23.80	1.132	0.045	21.9
Back side	20	QPSK 50_0	133322/683	1:1	0.049	-0.14	23.26	23.80	1.132	0.055	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	133322/683	1:1	0.044	-0.13	24.36	24.80	1.107	0.049	21.9
Back side	20	QPSK 1_0	133322/683	1:1	0.056	-0.15	24.36	24.80	1.107	0.062	21.9
Right side	20	QPSK 1_0	133322/683	1:1	0.049	-0.05	24.36	24.80	1.107	0.054	21.9
Bottom side	20	QPSK 1_0	133322/683	1:1	0.001	-0.01	24.36	24.80	1.107	0.001	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	133322/683	1:1	0.040	-0.12	23.26	23.80	1.132	0.045	21.9
Back side	20	QPSK 50_0	133322/683	1:1	0.049	-0.14	23.26	23.80	1.132	0.055	21.9
Right side	20	QPSK 50_0	133322/683	1:1	0.039	-0.03	23.26	23.80	1.132	0.044	21.9
Bottom side	20	QPSK 50_0	133322/683	1:1	0.001	0.05	23.26	23.80	1.132	0.001	21.9
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)(State4)											
Left cheek	20	QPSK 1_0	133322/683	1:1	0.145	0.06	23.97	24.80	1.211	0.176	21.9
Left tilted	20	QPSK 1_0	133322/683	1:1	0.005	-0.17	23.97	24.80	1.211	0.006	21.9
Right cheek	20	QPSK 1_0	133322/683	1:1	0.084	0.17	23.97	24.80	1.211	0.102	21.9
Right tilted	20	QPSK 1_0	133322/683	1:1	0.001	-0.15	23.97	24.80	1.211	0.001	21.9
Head Test Data (50%RB)(State4)											
Left cheek	20	QPSK 50_0	133322/683	1:1	0.132	0.06	22.78	23.80	1.265	0.167	21.9
Left tilted	20	QPSK 50_0	133322/683	1:1	0.004	-0.18	22.78	23.80	1.265	0.005	21.9
Right cheek	20	QPSK 50_0	133322/683	1:1	0.071	-0.19	22.78	23.80	1.265	0.090	21.9
Right tilted	20	QPSK 50_0	133322/683	1:1	0.001	0.03	22.78	23.80	1.265	0.001	21.9
Body worn Test data (Separate 15mm 1RB)(State1)											
Front side	20	QPSK 1_0	133322/683	1:1	0.077	-0.19	23.97	24.80	1.211	0.093	21.9
Back side	20	QPSK 1_0	133322/683	1:1	0.085	-0.09	23.97	24.80	1.211	0.103	21.9
Body worn Test data (Separate 15mm 50%RB)(State1)											
Front side	20	QPSK 50_0	133322/683	1:1	0.071	-0.03	22.78	23.80	1.265	0.090	21.9



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Back side	20	QPSK 50_0	133322/683	1:1	0.073	-0.18	22.78	23.80	1.265	0.092	21.9
Hotspot Test data (Separate 10mm 1RB)(State7)											
Front side	20	QPSK 1_0	133322/683	1:1	0.077	-0.19	23.97	24.80	1.211	0.093	21.9
Back side	20	QPSK 1_0	133322/683	1:1	0.085	-0.09	23.97	24.80	1.211	0.103	21.9
Left side	20	QPSK 1_0	133322/683	1:1	0.197	-0.07	23.97	24.80	1.211	0.238	21.9
Hotspot Test data (Separate 10mm 50%RB)(State7)											
Front side	20	QPSK 50_0	133322/683	1:1	0.071	-0.03	22.78	23.80	1.265	0.090	21.9
Back side	20	QPSK 50_0	133322/683	1:1	0.073	-0.18	22.78	23.80	1.265	0.092	21.9
Left side	20	QPSK 50_0	133322/683	1:1	0.181	-0.08	22.78	23.80	1.265	0.229	21.9

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8.2.16 SAR Result of 5G NR n2

SA N2 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	376000/1880	100%	0.104	-0.07	23.77	24.30	1.130	0.117	22.3
Left tilted	20	QPSK 1_1	376000/1880	100%	0.032	0.03	23.77	24.30	1.130	0.036	22.3
Right cheek	20	QPSK 1_1	376000/1880	100%	0.050	-0.08	23.77	24.30	1.130	0.056	22.3
Right tilted	20	QPSK 1_1	376000/1880	100%	0.001	-0.16	23.77	24.30	1.130	0.001	22.3
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	376000/1880	100%	0.085	-0.04	23.62	24.30	1.169	0.099	22.3
Left tilted	20	QPSK 50_28	376000/1880	100%	0.023	0.07	23.62	24.30	1.169	0.027	22.3
Right cheek	20	QPSK 50_28	376000/1880	100%	0.039	-0.19	23.62	24.30	1.169	0.046	22.3
Right tilted	20	QPSK 50_28	376000/1880	100%	0.001	-0.13	23.62	24.30	1.169	0.001	22.3
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	376000/1880	100%	0.103	0.17	23.17	23.80	1.156	0.119	22.3
Back side	20	QPSK 1_1	376000/1880	100%	0.200	0.01	23.17	23.80	1.156	0.231	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	376000/1880	100%	0.099	0.04	23.14	23.80	1.164	0.115	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.196	0.19	23.14	23.80	1.164	0.228	22.3
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	376000/1880	100%	0.103	0.17	23.17	23.80	1.156	0.119	22.3
Back side	20	QPSK 1_1	376000/1880	100%	0.200	0.01	23.17	23.80	1.156	0.231	22.3
Left side	20	QPSK 1_1	376000/1880	100%	0.064	-0.15	23.17	23.80	1.156	0.074	22.3
Bottom side	20	QPSK 1_1	376000/1880	100%	0.447	-0.09	23.17	23.80	1.156	0.517	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	376000/1880	100%	0.099	0.04	23.14	23.80	1.164	0.115	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.196	0.19	23.14	23.80	1.164	0.228	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.056	0.02	23.14	23.80	1.164	0.065	22.3
Bottom side	20	QPSK 50_28	376000/1880	100%	0.433	0.15	23.14	23.80	1.164	0.504	22.3
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	376000/1880	100%	0.346	0.01	18.57	19.80	1.327	0.459	22.3
Left tilted	20	QPSK 1_1	376000/1880	100%	0.360	0.06	18.57	19.80	1.327	0.478	22.3
Right cheek	20	QPSK 1_1	376000/1880	100%	0.502	-0.12	18.57	19.80	1.327	0.666	22.3
Right tilted	20	QPSK 1_1	376000/1880	100%	0.544	-0.04	18.57	19.80	1.327	0.722	22.3
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	376000/1880	100%	0.328	0.16	18.47	19.80	1.358	0.446	22.3
Left tilted	20	QPSK 50_28	376000/1880	100%	0.344	0.16	18.47	19.80	1.358	0.467	22.3
Right cheek	20	QPSK 50_28	376000/1880	100%	0.487	-0.07	18.47	19.80	1.358	0.661	22.3
Right tilted	20	QPSK 50_28	376000/1880	100%	0.525	-0.02	18.47	19.80	1.358	0.713	22.3
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	376000/1880	100%	0.196	0.04	21.65	23.20	1.429	0.280	22.3
Back side	20	QPSK 1_1	376000/1880	100%	0.284	-0.02	21.65	23.20	1.429	0.406	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	376000/1880	100%	0.187	-0.05	21.62	23.20	1.439	0.269	22.3



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Back side	20	QPSK 50_28	376000/1880	100%	0.273	-0.19	21.62	23.20	1.439	0.393	22.3
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	376000/1880	100%	0.196	0.04	21.65	23.20	1.429	0.280	22.3
Back side	20	QPSK 1_1	376000/1880	100%	0.284	-0.02	21.65	23.20	1.429	0.406	22.3
Left side	20	QPSK 1_1	376000/1880	100%	0.166	-0.18	21.65	23.20	1.429	0.237	22.3
Top side	20	QPSK 1_1	376000/1880	100%	0.597	-0.09	21.65	23.20	1.429	0.853	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	376000/1880	100%	0.187	-0.05	21.62	23.20	1.439	0.269	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.273	-0.19	21.62	23.20	1.439	0.393	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.156	-0.12	21.62	23.20	1.439	0.224	22.3
Top side	20	QPSK 50_28	376000/1880	100%	0.564	-0.15	21.62	23.20	1.439	0.811	22.3
Hotspot Test data (Separate 10mm 100%RB)											
Top side	20	QPSK 100_0	376000/1880	100%	0.523	0.02	20.34	22.20	1.535	0.803	22.3

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8.2.17 SAR Result of 5G NR n7

SA N7 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	50	QPSK 1_1	507000/2535	100%	0.033	0.06	23.14	24.20	1.276	0.042	22.2
Left tilted	50	QPSK 1_1	507000/2535	100%	0.001	0.17	23.14	24.20	1.276	0.001	22.2
Right cheek	50	QPSK 1_1	507000/2535	100%	0.039	-0.13	23.14	24.20	1.276	0.050	22.2
Right tilted	50	QPSK 1_1	507000/2535	100%	0.001	0.19	23.14	24.20	1.276	0.001	22.2
Head Test Data (50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	100%	0.028	0.13	22.98	24.20	1.324	0.037	22.2
Left tilted	50	QPSK 135_67	507000/2535	100%	0.001	0.02	22.98	24.20	1.324	0.001	22.2
Right cheek	50	QPSK 135_67	507000/2535	100%	0.035	-0.04	22.98	24.20	1.324	0.046	22.2
Right tilted	50	QPSK 135_67	507000/2535	100%	0.001	-0.18	22.98	24.20	1.324	0.001	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.036	0.19	21.25	22.30	1.274	0.046	22.2
Back side	50	QPSK 1_1	507000/2535	100%	0.085	-0.14	21.25	22.30	1.274	0.108	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.031	0.02	21.24	22.30	1.276	0.040	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.078	-0.07	21.24	22.30	1.276	0.100	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.036	0.19	21.25	22.30	1.274	0.046	22.2
Back side	50	QPSK 1_1	507000/2535	100%	0.085	-0.14	21.25	22.30	1.274	0.108	22.2
Left side	50	QPSK 1_1	507000/2535	100%	0.041	-0.13	21.25	22.30	1.274	0.052	22.2
Bottom side	50	QPSK 1_1	507000/2535	100%	0.137	0.00	21.25	22.30	1.274	0.174	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.031	0.02	21.24	22.30	1.276	0.040	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.078	-0.07	21.24	22.30	1.276	0.100	22.2
Left side	50	QPSK 135_67	507000/2535	100%	0.033	-0.05	21.24	22.30	1.276	0.042	22.2
Bottom side	50	QPSK 135_67	507000/2535	100%	0.125	-0.11	21.24	22.30	1.276	0.160	22.2
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	50	QPSK 1_1	507000/2535	100%	0.232	-0.15	16.75	18.20	1.396	0.324	22.2
Left tilted	50	QPSK 1_1	507000/2535	100%	0.374	0.09	16.75	18.20	1.396	0.522	22.2
Right cheek	50	QPSK 1_1	507000/2535	100%	0.325	-0.13	16.75	18.20	1.396	0.454	22.2
Right tilted	50	QPSK 1_1	507000/2535	100%	0.489	0.02	16.75	18.20	1.396	0.683	22.2
Head Test Data (50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	100%	0.208	-0.15	16.60	18.20	1.445	0.301	22.2
Left tilted	50	QPSK 135_67	507000/2535	100%	0.355	0.04	16.60	18.20	1.445	0.513	22.2
Right cheek	50	QPSK 135_67	507000/2535	100%	0.294	0.07	16.60	18.20	1.445	0.425	22.2
Right tilted	50	QPSK 135_67	507000/2535	100%	0.468	-0.04	16.60	18.20	1.445	0.676	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.097	0.11	18.73	20.30	1.435	0.139	22.2
Back side	50	QPSK 1_1	507000/2535	100%	0.179	-0.04	18.73	20.30	1.435	0.257	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.084	-0.16	18.63	20.30	1.469	0.123	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.154	-0.10	18.63	20.30	1.469	0.226	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.097	0.11	18.73	20.30	1.435	0.139	22.2

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Back side	50	QPSK 1_1	507000/2535	100%	0.179	-0.04	18.73	20.30	1.435	0.257	22.2
Left side	50	QPSK 1_1	507000/2535	100%	0.086	-0.03	18.73	20.30	1.435	0.123	22.2
Top side	50	QPSK 1_1	507000/2535	100%	0.289	-0.03	18.73	20.30	1.435	0.415	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.084	-0.16	18.63	20.30	1.469	0.123	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.154	-0.10	18.63	20.30	1.469	0.226	22.2
Left side	50	QPSK 135_67	507000/2535	100%	0.070	0.03	18.63	20.30	1.469	0.103	22.2
Top side	50	QPSK 135_67	507000/2535	100%	0.269	-0.11	18.63	20.30	1.469	0.395	22.2
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	50	QPSK 1_1	507000/2535	100%	0.735	-0.10	20.33	21.20	1.222	0.898	22.2
Left tilted	50	QPSK 1_1	507000/2535	100%	0.420	0.06	20.33	21.20	1.222	0.513	22.2
Right cheek	50	QPSK 1_1	507000/2535	100%	0.211	0.11	20.33	21.20	1.222	0.258	22.2
Right tilted	50	QPSK 1_1	507000/2535	100%	0.193	0.01	20.33	21.20	1.222	0.236	22.2
Left cheek-Repeat SAR	50	QPSK 1_1	507000/2535	100%	0.721	0.05	20.33	21.20	1.222	0.881	22.2
Head Test Data (50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	100%	0.609	0.01	20.21	21.20	1.256	0.765	22.2
Left tilted	50	QPSK 135_67	507000/2535	100%	0.343	0.12	20.21	21.20	1.256	0.431	22.2
Right cheek	50	QPSK 135_67	507000/2535	100%	0.183	0.04	20.21	21.20	1.256	0.230	22.2
Right tilted	50	QPSK 135_67	507000/2535	100%	0.165	0.07	20.21	21.20	1.256	0.207	22.2
Head Test Data (100%RB)											
Left cheek	50	QPSK 270_0	507000/2535	100%	0.579	-0.14	19.36	20.20	1.213	0.703	22.2
Head Test Data (1RB) State10											
Left cheek	50	QPSK 1_1	507000/2535	100%	0.855	-0.10	20.33	18.70	0.687	0.587	22.2
Left tilted	50	QPSK 1_1	507000/2535	100%	0.489	-0.13	20.33	18.70	0.687	0.336	22.2
Right cheek	50	QPSK 1_1	507000/2535	100%	0.246	0.17	20.33	18.70	0.687	0.169	22.2
Right tilted	50	QPSK 1_1	507000/2535	100%	0.225	0.06	20.33	18.70	0.687	0.155	22.2
Left cheek-Repeat SAR	50	QPSK 1_1	507000/2535	100%	0.839	-0.02	20.33	18.70	0.687	0.576	22.2
Head Test Data (50%RB) State10											
Left cheek	50	QPSK 135_67	507000/2535	100%	0.708	-0.16	20.21	18.70	0.706	0.500	22.2
Left tilted	50	QPSK 135_67	507000/2535	100%	0.399	-0.19	20.21	18.70	0.706	0.282	22.2
Right cheek	50	QPSK 135_67	507000/2535	100%	0.213	-0.15	20.21	18.70	0.706	0.150	22.2
Right tilted	50	QPSK 135_67	507000/2535	100%	0.192	-0.05	20.21	18.70	0.706	0.136	22.2
Head Test Data (100%RB) State10											
Left cheek	50	QPSK 270_0	507000/2535	100%	0.674	0.17	19.36	18.70	0.859	0.579	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.157	-0.13	20.92	21.70	1.197	0.188	22.2
Back side	50	QPSK 1_1	507000/2535	100%	0.219	-0.03	20.92	21.70	1.197	0.262	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.144	-0.05	20.73	21.70	1.250	0.180	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.191	0.05	20.73	21.70	1.250	0.239	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	100%	0.157	-0.13	20.92	21.70	1.197	0.188	22.2
Back side	50	QPSK 1_1	507000/2535	100%	0.219	-0.03	20.92	21.70	1.197	0.262	22.2
Right side	50	QPSK 1_1	507000/2535	100%	0.351	0.04	20.92	21.70	1.197	0.420	22.2
Top side	50	QPSK 1_1	507000/2535	100%	0.129	-0.06	20.92	21.70	1.197	0.154	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	100%	0.144	-0.05	20.73	21.70	1.250	0.180	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.191	0.05	20.73	21.70	1.250	0.239	22.2
Right side	50	QPSK 135_67	507000/2535	100%	0.334	0.08	20.73	21.70	1.250	0.418	22.2
Top side	50	QPSK 135_67	507000/2535	100%	0.118	0.04	20.73	21.70	1.250	0.148	22.2



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	507000/2535	0.855	0.839	1.019	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						
5) 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. The repeated measurement results must be clearly identified in the SAR report.						

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8.2.18 SAR Result of 5G NR n26

SA N26 SAR Test Record											
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 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.046	-0.18	23.69	24.30	1.151	0.053	22.2
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.001	-0.02	23.69	24.30	1.151	0.001	22.2
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.053	0.08	23.69	24.30	1.151	0.061	22.2
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.001	-0.06	23.69	24.30	1.151	0.001	22.2
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.032	0.17	23.68	24.30	1.153	0.037	22.2
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.001	-0.03	23.68	24.30	1.153	0.001	22.2
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.039	-0.15	23.68	24.30	1.153	0.045	22.2
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.001	-0.05	23.68	24.30	1.153	0.001	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	100%	0.056	-0.18	23.69	24.30	1.151	0.064	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.071	-0.04	23.69	24.30	1.151	0.082	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	100%	0.050	0.02	23.68	24.30	1.153	0.058	22.2
Back side	20	QPSK 50_28	166300/831.5	100%	0.063	-0.15	23.68	24.30	1.153	0.073	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	100%	0.056	-0.18	23.69	24.30	1.151	0.064	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.071	-0.04	23.69	24.30	1.151	0.082	22.2
Right side	20	QPSK 1_1	166300/831.5	100%	0.101	0.03	23.69	24.30	1.151	0.116	22.2
Bottom side	20	QPSK 1_1	166300/831.5	100%	0.057	0.19	23.69	24.30	1.151	0.066	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	100%	0.050	0.02	23.68	24.30	1.153	0.058	22.2
Back side	20	QPSK 50_28	166300/831.5	100%	0.063	-0.15	23.68	24.30	1.153	0.073	22.2
Right side	20	QPSK 50_28	166300/831.5	100%	0.086	0.08	23.68	24.30	1.153	0.099	22.2
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.044	-0.08	23.68	24.30	1.153	0.051	22.2
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 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.127	0.06	23.54	24.30	1.191	0.151	22.2
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.014	0.05	23.54	24.30	1.191	0.017	22.2
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.056	0.09	23.54	24.30	1.191	0.067	22.2
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.001	-0.11	23.54	24.30	1.191	0.001	22.2
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.108	0.01	23.51	24.30	1.199	0.130	22.2
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.009	-0.12	23.51	24.30	1.199	0.011	22.2
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.032	0.15	23.51	24.30	1.199	0.038	22.2
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.001	0.09	23.51	24.30	1.199	0.001	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	100%	0.039	0.17	23.54	24.30	1.191	0.046	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.046	0.05	23.54	24.30	1.191	0.055	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	100%	0.033	0.05	23.51	24.30	1.199	0.040	22.2



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Back side	20	QPSK 50_28	166300/831.5	100%	0.041	0.01	23.51	24.30	1.199	0.049	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	100%	0.039	0.17	23.54	24.30	1.191	0.046	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.046	0.05	23.54	24.30	1.191	0.055	22.2
Left side	20	QPSK 1_1	166300/831.5	100%	0.123	-0.08	23.54	24.30	1.191	0.147	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	100%	0.033	0.05	23.51	24.30	1.199	0.040	22.2
Back side	20	QPSK 50_28	166300/831.5	100%	0.041	0.01	23.51	24.30	1.199	0.049	22.2
Left side	20	QPSK 50_28	166300/831.5	100%	0.114	-0.18	23.51	24.30	1.199	0.137	22.2



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8.2.19 SAR Result of 5G NR n38

SA N38 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB)											
Left cheek	40	QPSK 1_1	519000/2595	100%	0.176	0.13	16.99	18.30	1.352	0.238	22.2
Left tilted	40	QPSK 1_1	519000/2595	100%	0.252	-0.19	16.99	18.30	1.352	0.341	22.2
Right cheek	40	QPSK 1_1	519000/2595	100%	0.335	-0.02	16.99	18.30	1.352	0.453	22.2
Right tilted	40	QPSK 1_1	519000/2595	100%	0.492	-0.03	16.99	18.30	1.352	0.665	22.2
Head Test Data (50%RB)											
Left cheek	40	QPSK 50_28	519000/2595	100%	0.161	0.07	16.92	18.30	1.374	0.221	22.2
Left tilted	40	QPSK 50_28	519000/2595	100%	0.238	0.04	16.92	18.30	1.374	0.327	22.2
Right cheek	40	QPSK 50_28	519000/2595	100%	0.316	-0.13	16.92	18.30	1.374	0.434	22.2
Right tilted	40	QPSK 50_28	519000/2595	100%	0.471	0.08	16.92	18.30	1.374	0.647	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	100%	0.093	0.11	19.72	21.00	1.343	0.125	22.2
Back side	40	QPSK 1_1	519000/2595	100%	0.188	-0.09	19.72	21.00	1.343	0.252	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	100%	0.085	-0.10	19.66	21.00	1.361	0.116	22.2
Back side	40	QPSK 50_28	519000/2595	100%	0.176	0.09	19.66	21.00	1.361	0.240	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	100%	0.093	0.01	19.72	21.00	1.343	0.125	22.2
Back side	40	QPSK 1_1	519000/2595	100%	0.188	-0.09	19.72	21.00	1.343	0.252	22.2
Left side	40	QPSK 1_1	519000/2595	100%	0.094	-0.17	19.72	21.00	1.343	0.126	22.2
Top side	40	QPSK 1_1	519000/2595	100%	0.305	-0.04	19.72	21.00	1.343	0.410	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	100%	0.085	-0.16	19.66	21.00	1.361	0.116	22.2
Back side	40	QPSK 50_28	519000/2595	100%	0.176	0.16	19.66	21.00	1.361	0.240	22.2
Left side	40	QPSK 50_28	519000/2595	100%	0.084	-0.01	19.66	21.00	1.361	0.114	22.2
Top side	40	QPSK 50_28	519000/2595	100%	0.290	-0.18	19.66	21.00	1.361	0.395	22.2

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8.2.20 SAR Result of 5G NR n41

SA N41 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.026	0.09	23.51	24.70	1.315	0.034	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	100%	0.001	0.05	23.51	24.70	1.315	0.001	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	100%	0.031	0.10	23.51	24.70	1.315	0.041	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.001	0.10	23.51	24.70	1.315	0.001	22.2
Head Test Data (50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.019	-0.12	23.42	24.70	1.343	0.026	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.001	0.02	23.42	24.70	1.343	0.001	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.025	0.18	23.42	24.70	1.343	0.034	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.001	-0.16	23.42	24.70	1.343	0.001	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	100%	0.039	-0.10	21.50	22.60	1.288	0.050	22.2
Back side	100	QPSK 1_1	518598/2592.99	100%	0.079	-0.11	21.50	22.60	1.288	0.102	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	100%	0.031	-0.14	21.45	22.60	1.303	0.040	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.063	-0.05	21.45	22.60	1.303	0.082	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	100%	0.039	-0.10	21.50	22.60	1.288	0.050	22.2
Back side	100	QPSK 1_1	518598/2592.99	100%	0.079	-0.11	21.50	22.60	1.288	0.102	22.2
Left side	100	QPSK 1_1	518598/2592.99	100%	0.031	-0.18	21.50	22.60	1.288	0.040	22.2
Bottom side	100	QPSK 1_1	518598/2592.99	100%	0.155	-0.08	21.50	22.60	1.288	0.200	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	100%	0.031	-0.14	21.45	22.60	1.303	0.040	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.063	-0.05	21.45	22.60	1.303	0.082	22.2
Left side	100	QPSK 135_69	518598/2592.99	100%	0.026	-0.14	21.45	22.60	1.303	0.034	22.2
Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.148	-0.02	21.45	22.60	1.303	0.193	22.2
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.126	-0.19	17.03	18.20	1.309	0.165	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	100%	0.176	0.07	17.03	18.20	1.309	0.230	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	100%	0.295	0.12	17.03	18.20	1.309	0.386	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.546	-0.07	17.03	18.20	1.309	0.715	22.2
Head Test Data (50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.101	0.13	16.88	18.20	1.355	0.137	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.129	-0.14	16.88	18.20	1.355	0.175	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.277	-0.01	16.88	18.20	1.355	0.375	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.517	-0.07	16.88	18.20	1.355	0.701	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	100%	0.075	0.05	19.47	20.50	1.268	0.095	22.2
Back side	100	QPSK 1_1	518598/2592.99	100%	0.135	-0.07	19.47	20.50	1.268	0.171	22.2

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Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	100%	0.065	0.17	19.45	20.50	1.274	0.083	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.125	0.16	19.45	20.50	1.274	0.159	22.2
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	100%	0.075	0.05	19.47	20.50	1.268	0.095	22.2
Back side	100	QPSK 1_1	518598/2592.99	100%	0.135	-0.07	19.47	20.50	1.268	0.171	22.2
Left side	100	QPSK 1_1	518598/2592.99	100%	0.095	0.07	19.47	20.50	1.268	0.120	22.2
Top side	100	QPSK 1_1	518598/2592.99	100%	0.215	-0.09	19.47	20.50	1.268	0.273	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	100%	0.065	0.17	19.45	20.50	1.274	0.083	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.125	0.16	19.45	20.50	1.274	0.159	22.2
Left side	100	QPSK 135_69	518598/2592.99	100%	0.086	0.02	19.45	20.50	1.274	0.110	22.2
Top side	100	QPSK 135_69	518598/2592.99	100%	0.207	0.02	19.45	20.50	1.274	0.264	22.2
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.809	-0.08	19.22	19.70	1.117	0.904	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	100%	0.394	0.17	19.22	19.70	1.117	0.440	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	100%	0.222	0.14	19.22	19.70	1.117	0.248	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.213	0.12	19.22	19.70	1.117	0.238	22.2
Left cheek-Repeat SAR	100	QPSK 1_1	518598/2592.99	100%	0.794	0.06	19.22	19.70	1.117	0.887	22.2
Head Test Data (50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.761	0.18	19.10	19.70	1.148	0.874	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.365	0.19	19.10	19.70	1.148	0.419	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.199	0.02	19.10	19.70	1.148	0.228	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.193	-0.12	19.10	19.70	1.148	0.222	22.2
Head Test Data (100%RB)											
Left cheek	100	QPSK 270_0	518598/2592.99	100%	0.676	0.06	17.71	18.70	1.256	0.849	22.2
Head Test Data (1RB) State10											
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.818	-0.08	19.22	16.70	0.560	0.458	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	100%	0.398	0.17	19.22	16.70	0.560	0.223	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	100%	0.224	0.14	19.22	16.70	0.560	0.125	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.215	0.12	19.22	16.70	0.560	0.120	22.2
Left cheek-Repeat SAR	100	QPSK 1_1	518598/2592.99	100%	0.803	0.06	19.22	16.70	0.560	0.449	22.2
Head Test Data (50%RB) State10											
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.769	0.18	19.10	16.70	0.575	0.443	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.369	0.19	19.10	16.70	0.575	0.212	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.201	0.02	19.10	16.70	0.575	0.116	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.195	-0.12	19.10	16.70	0.575	0.112	22.2
Head Test Data (100%RB) State10											
Left cheek	100	QPSK 270_0	518598/2592.99	100%	0.684	0.06	17.71	16.70	0.793	0.542	22.2
Body worn Test data (Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	100%	0.237	-0.02	21.04	21.70	1.164	0.276	22.2
Back side	100	QPSK 1_1	518598/2592.99	100%	0.322	-0.05	21.04	21.70	1.164	0.375	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	100%	0.213	-0.01	21.01	21.70	1.172	0.250	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.298	-0.19	21.01	21.70	1.172	0.349	22.2

SA N66 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB)											
Left cheek	40	QPSK 1_1	349000/1745	100%	0.064	-0.08	23.24	24.30	1.276	0.082	22.1
Left tilted	40	QPSK 1_1	349000/1745	100%	0.051	-0.13	23.24	24.30	1.276	0.065	22.1
Right cheek	40	QPSK 1_1	349000/1745	100%	0.116	-0.16	23.24	24.30	1.276	0.148	22.1
Right tilted	40	QPSK 1_1	349000/1745	100%	0.048	-0.03	23.24	24.30	1.276	0.061	22.1
Head Test Data (50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	100%	0.058	0.09	23.19	24.30	1.291	0.075	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.043	-0.05	23.19	24.30	1.291	0.056	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.101	-0.13	23.19	24.30	1.291	0.130	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.041	-0.15	23.19	24.30	1.291	0.053	22.1
Body worn Test data (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	100%	0.290	-0.03	22.66	23.30	1.159	0.336	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.510	-0.10	22.66	23.30	1.159	0.591	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.279	-0.16	22.62	23.30	1.169	0.326	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.490	-0.16	22.62	23.30	1.169	0.573	22.1
Hotspot Test data (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	100%	0.290	-0.03	22.66	23.30	1.159	0.336	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.510	-0.10	22.66	23.30	1.159	0.591	22.1
Left side	40	QPSK 1_1	349000/1745	100%	0.146	0.18	22.66	23.30	1.159	0.169	22.1
Bottom side	40	QPSK 1_1	349000/1745	100%	0.734	-0.01	22.66	23.30	1.159	0.851	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.279	-0.16	22.62	23.30	1.169	0.326	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.490	-0.16	22.62	23.30	1.169	0.573	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.137	-0.04	22.62	23.30	1.169	0.160	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.697	0.18	22.62	23.30	1.169	0.815	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Bottom side	40	QPSK 216_0	349000/1745	100%	0.642	0.05	21.44	22.30	1.219	0.783	22.1
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB)											
Left cheek	40	QPSK 1_1	349000/1745	100%	0.339	-0.01	22.29	23.30	1.262	0.428	22.1
Left tilted	40	QPSK 1_1	349000/1745	100%	0.375	0.02	22.29	23.30	1.262	0.473	22.1
Right cheek	40	QPSK 1_1	349000/1745	100%	0.578	-0.03	22.29	23.30	1.262	0.729	22.1
Right tilted	40	QPSK 1_1	349000/1745	100%	0.660	0.01	22.29	23.30	1.262	0.833	22.1
Head Test Data (50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	100%	0.316	-0.01	22.20	23.30	1.288	0.407	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.335	-0.12	22.20	23.30	1.288	0.432	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.526	0.10	22.20	23.30	1.288	0.678	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.639	0.17	22.20	23.30	1.288	0.823	22.1
Head Test											



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Front side	40	QPSK 1_1	349000/1745	100%	0.177	-0.06	22.68	23.80	1.294	0.229	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.240	0.15	22.68	23.80	1.294	0.311	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.160	0.04	22.62	23.80	1.312	0.210	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.234	0.13	22.62	23.80	1.312	0.307	22.1
Hotspot Test data (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	100%	0.177	-0.06	22.68	23.80	1.294	0.229	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.240	0.15	22.68	23.80	1.294	0.311	22.1
Left side	40	QPSK 1_1	349000/1745	100%	0.113	0.17	22.68	23.80	1.294	0.146	22.1
Top side	40	QPSK 1_1	349000/1745	100%	0.372	-0.09	22.68	23.80	1.294	0.481	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.160	0.04	22.62	23.80	1.312	0.210	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.234	0.13	22.62	23.80	1.312	0.307	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.102	0.09	22.62	23.80	1.312	0.134	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.355	-0.15	22.62	23.80	1.312	0.466	22.1
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	40	QPSK 1_1	349000/1745	100%	0.284	0.15	20.97	21.80	1.211	0.344	22.1
Left tilted	40	QPSK 1_1	349000/1745	100%	0.179	-0.07	20.97	21.80	1.211	0.217	22.1
Right cheek	40	QPSK 1_1	349000/1745	100%	0.057	0.17	20.97	21.80	1.211	0.069	22.1
Right tilted	40	QPSK 1_1	349000/1745	100%	0.001	-0.18	20.97	21.80	1.211	0.001	22.1
Head Test Data (50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	100%	0.269	-0.07	20.95	21.80	1.216	0.327	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.168	0.13	20.95	21.80	1.216	0.204	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.047	-0.08	20.95	21.80	1.216	0.057	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.001	-0.12	20.95	21.80	1.216	0.001	22.1
Body worn Test data (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	100%	0.044	-0.12	20.97	21.80	1.211	0.053	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.055	0.05	20.97	21.80	1.211	0.067	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.035	0.03	20.95	21.80	1.216	0.043	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.049	-0.17	20.95	21.80	1.216	0.060	22.1
Hotspot Test data (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	100%	0.044	-0.12	20.97	21.80	1.211	0.053	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.055	0.05	20.97	21.80	1.211	0.067	22.1
Right side	40	QPSK 1_1	349000/1745	100%	0.095	-0.03	20.97	21.80	1.211	0.115	22.1
Top side	40	QPSK 1_1	349000/1745	100%	0.001	0.08	20.97	21.80	1.211	0.001	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	100%	0.035	0.03	20.95	21.80	1.216	0.043	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.049	-0.17	20.95	21.80	1.216	0.060	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.082	0.04	20.95	21.80	1.216	0.100	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.001	0.04	20.95	21.80	1.216	0.001	22.1

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8.2.22 SAR Result of 5G NR n71

SA N71 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.011	0.08	24.32	24.80	1.117	0.012	21.9
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.005	0.02	24.32	24.80	1.117	0.006	21.9
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.001	0.02	24.32	24.80	1.117	0.001	21.9
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.001	-0.14	24.32	24.80	1.117	0.001	21.9
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.009	0.12	24.24	24.80	1.138	0.010	21.9
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.001	-0.04	24.24	24.80	1.138	0.001	21.9
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.001	0.05	24.24	24.80	1.138	0.001	21.9
Right tilted	20		136100/680.5	100%	0.001	-0.06	24.24	24.80	1.138	0.001	21.9
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.027	0.14	24.32	24.80	1.117	0.030	21.9
Back side	20	QPSK 1_1	136100/680.5	100%	0.034	0.11	24.32	24.80	1.117	0.038	21.9
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	100%	0.024	0.12	24.24	24.80	1.138	0.027	21.9
Back side	20	QPSK 50_28	136100/680.5	100%	0.028	0.15	24.24	24.80	1.138	0.032	21.9
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.027	0.14	24.32	24.80	1.117	0.030	21.9
Back side	20	QPSK 1_1	136100/680.5	100%	0.034	0.11	24.32	24.80	1.117	0.038	21.9
Right side	20	QPSK 1_1	136100/680.5	100%	0.031	0.03	24.32	24.80	1.117	0.035	21.9
Bottom side	20	QPSK 1_1	136100/680.5	100%	0.001	-0.12	24.32	24.80	1.117	0.001	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	100%	0.024	0.12	24.24	24.80	1.138	0.027	21.9
Back side	20	QPSK 50_28	136100/680.5	100%	0.028	0.15	24.24	24.80	1.138	0.032	21.9
Right side	20	QPSK 50_28	136100/680.5	100%	0.030	-0.06	24.24	24.80	1.138	0.034	21.9
Bottom side	20	QPSK 50_28	136100/680.5	100%	0.001	0.03	24.24	24.80	1.138	0.001	21.9
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB)											
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.101	0.09	23.73	24.80	1.279	0.129	21.9
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.001	0.05	23.73	24.80	1.279	0.001	21.9
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.072	0.01	23.73	24.80	1.279	0.092	21.9
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.001	-0.13	23.73	24.80	1.279	0.001	21.9
Head Test Data (50%RB)											
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.083	0.14	23.66	24.80	1.300	0.108	21.9
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.001	0.18	23.66	24.80	1.300	0.001	21.9
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.059	0.06	23.66	24.80	1.300	0.077	21.9
Right tilted	20	QPSK 50_28	136100/680.5	100%	0.001	0.17	23.66	24.80	1.300	0.001	21.9
Body worn Test data (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.039	0.02	23.73	24.80	1.279	0.050	21.9
Back side	20	QPSK 1_1	136100/680.5	100%	0.042	0.09	23.73	24.80	1.279	0.054	21.9
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	100%	0.035	0.10	23.66	24.80	1.300	0.046	21.9



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Back side	20	QPSK 50_28	136100/680.5	100%	0.037	-0.14	23.66	24.80	1.300	0.048	21.9
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.039	0.02	23.73	24.80	1.279	0.050	21.9
Back side	20	QPSK 1_1	136100/680.5	100%	0.042	0.09	23.73	24.80	1.279	0.054	21.9
Left side	20	QPSK 1_1	136100/680.5	100%	0.127	-0.05	23.73	24.80	1.279	0.162	21.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	100%	0.035	0.10	23.66	24.80	1.300	0.046	21.9
Back side	20	QPSK 50_28	136100/680.5	100%	0.037	-0.14	23.66	24.80	1.300	0.048	21.9
Left side	20	QPSK 50_28	136100/680.5	100%	0.122	0.07	23.66	24.80	1.300	0.159	21.9

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8.2.23 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant8 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	802.11b	11/2462	100.00%	1.000	0.396	0.08	16.16	17.50	1.361	0.539	21.9
Left tilted	802.11b	11/2462	100.00%	1.000	0.400	0.04	16.16	17.50	1.361	0.545	21.9
Right cheek	802.11b	11/2462	100.00%	1.000	0.201	0.17	16.16	17.50	1.361	0.274	21.9
Right tilted	802.11b	11/2462	100.00%	1.000	0.212	-0.13	16.16	17.50	1.361	0.289	21.9
Body worn Test data (Separate 15mm)											
Front side	802.11b	11/2462	100.00%	1.000	0.034	0.04	17.15	18.50	1.365	0.046	21.9
Back side	802.11b	11/2462	100.00%	1.000	0.048	0.13	17.15	18.50	1.365	0.065	21.9
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	100.00%	1.000	0.045	0.04	14.74	16.00	1.337	0.060	21.9
Back side	802.11b	6/2437	100.00%	1.000	0.070	0.13	14.74	16.00	1.337	0.094	21.9
Right side	802.11b	6/2437	100.00%	1.000	0.051	-0.15	14.74	16.00	1.337	0.068	21.9
Top side	802.11b	6/2437	100.00%	1.000	0.073	-0.06	14.74	16.00	1.337	0.098	21.9
Ant11 Test Record chain1											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	802.11b	6/2437	100.00%	1.000	0.196	-0.10	16.11	17.50	1.377	0.270	21.9
Left tilted	802.11b	6/2437	100.00%	1.000	0.045	0.15	16.11	17.50	1.377	0.062	21.9
Right cheek	802.11b	6/2437	100.00%	1.000	0.103	-0.01	16.11	17.50	1.377	0.142	21.9
Right tilted	802.11b	6/2437	100.00%	1.000	0.041	-0.17	16.11	17.50	1.377	0.056	21.9
Body worn Test data (Separate 15mm)											
Front side	802.11b	11/2462	100.00%	1.000	0.027	-0.12	17.07	18.50	1.390	0.038	21.9
Back side	802.11b	11/2462	100.00%	1.000	0.039	0.04	17.07	18.50	1.390	0.054	21.9
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	100.00%	1.000	0.027	-0.12	14.69	16.00	1.352	0.037	21.9
Back side	802.11b	6/2437	100.00%	1.000	0.047	0.04	14.69	16.00	1.352	0.064	21.9
Right side	802.11b	6/2437	100.00%	1.000	0.053	0.01	14.69	16.00	1.352	0.072	21.9
Top side	802.11b	6/2437	100.00%	1.000	0.029	0.01	14.69	16.00	1.352	0.039	21.9
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	802.11b	11/2462	100.00%	1.000	0.284	-0.13	19.13	20.50	1.372	0.390	21.9
Left tilted	802.11b	11/2462	100.00%	1.000	0.387	-0.10	19.13	20.50	1.372	0.531	21.9
Right cheek	802.11b	11/2462	100.00%	1.000	0.171	0.09	19.13	20.50	1.372	0.235	21.9
Right tilted	802.11b	11/2462	100.00%	1.000	0.207	0.02	19.13	20.50	1.372	0.284	21.9
Body worn Test data (Separate 15mm)											
Front side	802.11b	11/2462	100.00%	1.000	0.041	-0.11	20.12	21.50	1.374	0.056	21.9
Back side	802.11b	11/2462	100.00%	1.000	0.081	0.09	20.12	21.50	1.374	0.111	21.9
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	100.00%	1.000	0.041	-0.11	17.73	19.00	1.341	0.055	21.9
Back side	802.11b	6/2437	100.00%	1.000	0.077	0.09	17.73	19.00	1.341	0.103	21.9
Right side	802.11b	6/2437	100.00%	1.000	0.047	0.01	17.73	19.00	1.341	0.063	21.9
Top side	802.11b	6/2437	100.00%	1.000	0.077	-0.06	17.73	19.00	1.341	0.104	21.9

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8.2.24 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
Ant9 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A											
Left cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.389	0.17	14.15	15.50	1.365	0.531	22.3
Left tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.188	0.19	14.15	15.50	1.365	0.257	22.3
Right cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.118	-0.11	14.15	15.50	1.365	0.161	22.3
Right tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.067	0.06	14.15	15.50	1.365	0.091	22.3
Head Test Data of U-NII-2C											
Left cheek	802.11ac VHT20	116/5580	100.00%	1.000	0.432	0.09	13.21	14.50	1.346	0.581	22.3
Left tilted	802.11ac VHT20	116/5580	100.00%	1.000	0.216	0.15	13.21	14.50	1.346	0.291	22.3
Right cheek	802.11ac VHT20	116/5580	100.00%	1.000	0.146	0.03	13.21	14.50	1.346	0.196	22.3
Right tilted	802.11ac VHT20	116/5580	100.00%	1.000	0.069	-0.16	13.21	14.50	1.346	0.093	22.3
Head Test Data of U-NII-3											
Left cheek	802.11ac VHT80	155/5775	100.00%	1.000	0.500	0.11	12.78	14.00	1.324	0.662	22.3
Left tilted	802.11ac VHT80	155/5775	100.00%	1.000	0.244	-0.04	12.78	14.00	1.324	0.323	22.3
Right cheek	802.11ac VHT80	155/5775	100.00%	1.000	0.163	-0.10	12.78	14.00	1.324	0.216	22.3
Right tilted	802.11ac VHT80	155/5775	100.00%	1.000	0.092	0.17	12.78	14.00	1.324	0.122	22.3
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11n HT20	52/5260	100.00%	1.000	0.069	0.03	14.71	16.00	1.346	0.093	22.3
Back side	802.11n HT20	52/5260	100.00%	1.000	0.125	-0.07	14.71	16.00	1.346	0.168	22.3
Body worn Test data of U-NII-2C (Separate 15mm)											
Front side	802.11ac VHT20	120/5600	100.00%	1.000	0.133	-0.12	13.20	14.50	1.349	0.179	22.3
Back side	802.11ac VHT20	120/5600	100.00%	1.000	0.099	-0.03	13.20	14.50	1.349	0.134	22.3
Body worn Test data of U-NII-3 (Separate 15mm)											
Front side	802.11n HT40	159/5795	100.00%	1.000	0.136	0.12	12.75	14.00	1.334	0.181	22.3
Back side	802.11n HT40	159/5795	100.00%	1.000	0.184	0.03	12.75	14.00	1.334	0.245	22.3
Hotspot Test data of U-NII-1 (Separate 10mm)											
Front side	802.11n HT40	46/5230	100.00%	1.000	0.058	-0.02	12.15	13.50	1.365	0.079	22.3
Back side	802.11n HT40	46/5230	100.00%	1.000	0.074	0.18	12.15	13.50	1.365	0.101	22.3
Right side	802.11n HT40	46/5230	100.00%	1.000	0.111	0.05	12.15	13.50	1.365	0.151	22.3
Top side	802.11n HT40	46/5230	100.00%	1.000	0.089	-0.13	12.15	13.50	1.365	0.121	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11ac VHT80	155/5775	100.00%	1.000	0.121	-0.02	12.76	14.00	1.330	0.161	22.3
Back side	802.11ac VHT80	155/5775	100.00%	1.000	0.150	-0.02	12.76	14.00	1.330	0.200	22.3
Right side	802.11ac VHT80	155/5775	100.00%	1.000	0.265	0.08	12.76	14.00	1.330	0.353	22.3

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Top side	802.11ac VHT80	155/5775	100.00%	1.000	0.057	0.01	12.76	14.00	1.330	0.076	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10- g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data of U-NII-2A (Separate 0mm)											
Front side	802.11a	56/5280	100.00%	1.000	0.230	-0.02	14.68	16.00	1.355	0.312	22.3
Back side	802.11a	56/5280	100.00%	1.000	0.145	-0.03	14.68	16.00	1.355	0.197	22.3
Right side	802.11a	56/5280	100.00%	1.000	0.548	-0.08	14.68	16.00	1.355	0.743	22.3
Top side	802.11a	56/5280	100.00%	1.000	0.052	-0.18	14.68	16.00	1.355	0.070	22.3
Product specific 10g SAR Test data of U-NII-2C (Separate 0mm)											
Front side	802.11a	112/5660	100.00%	1.000	0.260	0.05	13.19	14.50	1.352	0.352	22.3
Back side	802.11a	112/5660	100.00%	1.000	0.139	0.01	13.19	14.50	1.352	0.188	22.3
Right side	802.11a	112/5660	100.00%	1.000	0.531	-0.08	13.19	14.50	1.352	0.718	22.3
Top side	802.11a	112/5660	100.00%	1.000	0.070	0.03	13.19	14.50	1.352	0.095	22.3
Ant10 Test Record chain1											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A											
Left cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.208	-0.12	14.25	15.50	1.334	0.277	22.3
Left tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.231	0.17	14.25	15.50	1.334	0.308	22.3
Right cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.176	0.11	14.25	15.50	1.334	0.235	22.3
Right tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.246	-0.12	14.25	15.50	1.334	0.328	22.3
Head Test Data of U-NII-2C											
Left cheek	802.11a	100/5500	100.00%	1.000	0.313	-0.08	13.26	14.50	1.330	0.416	22.3
Left tilted	802.11a	100/5500	100.00%	1.000	0.334	-0.05	13.26	14.50	1.330	0.444	22.3
Right cheek	802.11a	100/5500	100.00%	1.000	0.297	0.06	13.26	14.50	1.330	0.395	22.3
Right tilted	802.11a	100/5500	100.00%	1.000	0.377	-0.06	13.26	14.50	1.330	0.502	22.3
Head Test Data of U-NII-3											
Left cheek	802.11a	165/5825	100.00%	1.000	0.184	0.11	12.77	14.00	1.327	0.244	22.3
Left tilted	802.11a	165/5825	100.00%	1.000	0.209	0.14	12.77	14.00	1.327	0.277	22.3
Right cheek	802.11a	165/5825	100.00%	1.000	0.193	-0.01	12.77	14.00	1.327	0.256	22.3
Right tilted	802.11a	165/5825	100.00%	1.000	0.221	0.03	12.77	14.00	1.327	0.293	22.3
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	100.00%	1.000	0.059	0.04	14.77	16.00	1.327	0.078	22.3
Back side	802.11a	52/5260	100.00%	1.000	0.075	-0.15	14.77	16.00	1.327	0.100	22.3
Body worn Test data of U-NII-2C (Separate 15mm)											
Front side	802.11a	100/5500	100.00%	1.000	0.090	-0.14	13.26	14.50	1.330	0.120	22.3
Back side	802.11a	100/5500	100.00%	1.000	0.085	0.04	13.26	14.50	1.330	0.113	22.3
Body worn Test data of U-NII-3 (Separate 15mm)											
Front side	802.11n HT40	159/5795	100.00%	1.000	0.126	0.18	12.75	14.00	1.334	0.168	22.3
Back side	802.11n HT40	159/5795	100.00%	1.000	0.095	-0.11	12.75	14.00	1.334	0.127	22.3
Hotspot Test data of U-NII-1 (Separate 10mm)											
Front side	802.11ac VHT80	42/5210	100.00%	1.000	0.082	0.04	12.28	13.50	1.324	0.109	22.3
Back side	802.11ac VHT80	42/5210	100.00%	1.000	0.080	-0.09	12.28	13.50	1.324	0.106	22.3

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Right side	802.11ac VHT80	42/5210	100.00%	1.000	0.092	0.02	12.28	13.50	1.324	0.122	22.3
Top side	802.11ac VHT80	42/5210	100.00%	1.000	0.240	-0.02	12.28	13.50	1.324	0.318	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11ac VHT80	155/5775	100.00%	1.000	0.062	-0.13	12.76	14.00	1.330	0.082	22.3
Back side	802.11ac VHT80	155/5775	100.00%	1.000	0.094	-0.08	12.76	14.00	1.330	0.125	22.3
Right side	802.11ac VHT80	155/5775	100.00%	1.000	0.144	-0.18	12.76	14.00	1.330	0.192	22.3
Top side	802.11ac VHT80	155/5775	100.00%	1.000	0.112	0.06	12.76	14.00	1.330	0.149	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data of U-NII-2A (Separate 0mm)											
Front side	802.11a	52/5260	100.00%	1.000	0.271	0.15	14.77	16.00	1.327	0.360	22.3
Back side	802.11a	52/5260	100.00%	1.000	0.144	0.19	14.77	16.00	1.327	0.191	22.3
Right side	802.11a	52/5260	100.00%	1.000	0.182	-0.04	14.77	16.00	1.327	0.242	22.3
Top side	802.11a	52/5260	100.00%	1.000	1.430	-0.02	14.77	16.00	1.327	1.898	22.3
Product specific 10g SAR Test data of U-NII-2C (Separate 0mm)											
Front side	802.11a	100/5500	100.00%	1.000	0.390	0.14	13.26	14.50	1.330	0.519	22.3
Back side	802.11a	100/5500	100.00%	1.000	0.150	0.07	13.26	14.50	1.330	0.200	22.3
Right side	802.11a	100/5500	100.00%	1.000	0.214	-0.14	13.26	14.50	1.330	0.285	22.3
Top side	802.11a	100/5500	100.00%	1.000	0.800	-0.06	13.26	14.50	1.330	1.064	22.3
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A											
Left cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.384	-0.02	17.21	18.50	1.346	0.517	22.3
Left tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.359	-0.14	17.21	18.50	1.346	0.483	22.3
Right cheek	802.11ac VHT20	52/5260	100.00%	1.000	0.194	0.05	17.21	18.50	1.346	0.261	22.3
Right tilted	802.11ac VHT20	52/5260	100.00%	1.000	0.283	-0.08	17.21	18.50	1.346	0.381	22.3
Head Test Data of U-NII-2C											
Left cheek	802.11ac VHT20	120/5600	100.00%	1.000	0.446	-0.08	16.23	17.50	1.340	0.597	22.3
Left tilted	802.11ac VHT20	120/5600	100.00%	1.000	0.423	-0.15	16.23	17.50	1.340	0.567	22.3
Right cheek	802.11ac VHT20	120/5600	100.00%	1.000	0.300	0.09	16.23	17.50	1.340	0.402	22.3
Right tilted	802.11ac VHT20	120/5600	100.00%	1.000	0.366	-0.12	16.23	17.50	1.340	0.490	22.3
Head Test Data of U-NII-3											
Left cheek	802.11ac VHT80	155/5775	100.00%	1.000	0.332	-0.02	15.73	17.00	1.339	0.445	22.3
Left tilted	802.11ac VHT80	155/5775	100.00%	1.000	0.316	-0.09	15.73	17.00	1.339	0.423	22.3
Right cheek	802.11ac VHT80	155/5775	100.00%	1.000	0.186	0.09	15.73	17.00	1.339	0.249	22.3
Right tilted	802.11ac VHT80	155/5775	100.00%	1.000	0.213	-0.06	15.73	17.00	1.339	0.285	22.3
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11n HT20	52/5260	100.00%	1.000	0.063	0.07	17.73	19.00	1.340	0.084	22.3

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Back side	802.11n HT20	52/5260	100.00%	1.000	0.100	-0.17	17.73	19.00	1.340	0.134	22.3
Body worn Test data of U-NII-2C (Separate 15mm)											
Front side	802.11ac VHT20	120/5600	100.00%	1.000	0.130	-0.19	16.24	17.50	1.338	0.174	22.3
Back side	802.11ac VHT20	120/5600	100.00%	1.000	0.144	0.02	16.24	17.50	1.338	0.193	22.3
Body worn Test data of U-NII-3 (Separate 15mm)											
Front side	802.11n HT40	159/5795	100.00%	1.000	0.163	-0.14	15.76	17.00	1.330	0.217	22.3
Back side	802.11n HT40	159/5795	100.00%	1.000	0.083	-0.18	15.76	17.00	1.330	0.110	22.3
Hotspot Test data of U-NII-1 (Separate 10mm)											
Front side	802.11ac VHT80	42/5210	100.00%	1.000	0.110	-0.13	15.20	16.50	1.350	0.149	22.3
Back side	802.11ac VHT80	42/5210	100.00%	1.000	0.098	-0.15	15.20	16.50	1.350	0.132	22.3
Right side	802.11ac VHT80	42/5210	100.00%	1.000	0.123	0.10	15.20	16.50	1.350	0.166	22.3
Top side	802.11ac VHT80	42/5210	100.00%	1.000	0.177	-0.11	15.20	16.50	1.350	0.239	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11ac VHT80	155/5775	100.00%	1.000	0.096	-0.10	15.77	17.00	1.327	0.127	22.3
Back side	802.11ac VHT80	155/5775	100.00%	1.000	0.151	0.19	15.77	17.00	1.327	0.200	22.3
Right side	802.11ac VHT80	155/5775	100.00%	1.000	0.246	0.13	15.77	17.00	1.327	0.327	22.3
Top side	802.11ac VHT80	155/5775	100.00%	1.000	0.112	0.10	15.77	17.00	1.327	0.149	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10- g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data of U-NII-2A (Separate 0mm)											
Front side	802.11a	56/5280	100.00%	1.000	0.322	0.10	17.72	19.00	1.343	0.432	22.3
Back side	802.11a	56/5280	100.00%	1.000	0.194	-0.13	17.72	19.00	1.343	0.260	22.3
Right side	802.11a	56/5280	100.00%	1.000	0.090	0.07	17.72	19.00	1.343	0.121	22.3
Top side	802.11a	56/5280	100.00%	1.000	1.470	0.03	17.72	19.00	1.343	1.974	22.3
Product specific 10g SAR Test data of U-NII-2C (Separate 0mm)											
Front side	802.11a	124/5620	100.00%	1.000	0.359	0.06	16.21	17.50	1.346	0.483	22.3
Back side	802.11a	124/5620	100.00%	1.000	0.165	0.07	16.21	17.50	1.346	0.222	22.3
Right side	802.11a	124/5620	100.00%	1.000	0.629	-0.15	16.21	17.50	1.346	0.846	22.3
Top side	802.11a	124/5620	100.00%	1.000	0.869	0.10	16.21	17.50	1.346	1.169	22.3

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8.2.25 SAR Result of BT

Bluetooth SAR Test Record											
Ant8 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	DH5	39/2441	76.00%	1.316	0.201	0.06	15.08	16.00	1.236	0.327	21.9
Left tilted	DH5	39/2441	76.00%	1.316	0.249	0.05	15.08	16.00	1.236	0.405	21.9
Right cheek	DH5	39/2441	76.00%	1.316	0.109	-0.03	15.08	16.00	1.236	0.177	21.9
Right tilted	DH5	39/2441	76.00%	1.316	0.103	0.01	15.08	16.00	1.236	0.168	21.9
Body worn Test data (Separate 15mm)											
Front side	DH5	39/2441	76.00%	1.316	0.027	0.08	15.08	16.00	1.236	0.044	21.9
Back side	DH5	39/2441	76.00%	1.316	0.023	-0.11	15.08	16.00	1.236	0.037	21.9
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.00%	1.316	0.027	0.08	15.08	16.00	1.236	0.044	21.9
Back side	DH5	39/2441	76.00%	1.316	0.023	-0.11	15.08	16.00	1.236	0.037	21.9
Right side	DH5	39/2441	76.00%	1.316	0.029	-0.15	15.08	16.00	1.236	0.047	21.9
Top side	DH5	39/2441	76.00%	1.316	0.040	0.13	15.08	16.00	1.236	0.065	21.9
Ant11 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	DH5	39/2441	76.00%	1.316	0.072	0.13	14.77	16.00	1.327	0.125	21.9
Left tilted	DH5	39/2441	76.00%	1.316	0.085	0.12	14.77	16.00	1.327	0.148	21.9
Right cheek	DH5	39/2441	76.00%	1.316	0.101	0.05	14.77	16.00	1.327	0.176	21.9
Right tilted	DH5	39/2441	76.00%	1.316	0.109	0.09	14.77	16.00	1.327	0.190	21.9
Body worn Test data (Separate 15mm)											
Front side	DH5	39/2441	76.00%	1.316	0.027	-0.19	14.77	16.00	1.327	0.047	21.9
Back side	DH5	39/2441	76.00%	1.316	0.029	0.08	14.77	16.00	1.327	0.051	21.9
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.00%	1.316	0.027	-0.19	14.77	16.00	1.327	0.047	21.9
Back side	DH5	39/2441	76.00%	1.316	0.029	0.08	14.77	16.00	1.327	0.051	21.9
Right side	DH5	39/2441	76.00%	1.316	0.036	0.03	14.77	16.00	1.327	0.063	21.9
Top side	DH5	39/2441	76.00%	1.316	0.046	0.03	14.77	16.00	1.327	0.080	21.9



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8.2.26 SAR Result of NFC

NFC SAR Test Record									
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
NFC Test data (Separate 0mm)									
Front side	NFC	13.56MHz	100.00%	1.000	0.000	0.08	1.000	0.000	22.5
Back side	NFC	13.56MHz	100.00%	1.000	0.006	-0.01	1.000	0.006	22.5
Left side	NFC	13.56MHz	100.00%	1.000	0.000	-0.05	1.000	0.000	22.5
Right side	NFC	13.56MHz	100.00%	1.000	0.000	0.04	1.000	0.000	22.5
Top side	NFC	13.56MHz	100.00%	1.000	0.000	0.08	1.000	0.000	22.5
Bottom side	NFC	13.56MHz	100.00%	1.000	0.000	-0.09	1.000	0.000	22.5



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

•Simultaneous Transmission Possibilities

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz Ant8	Yes	Yes	Yes	/
2	WWAN + WLAN 2.4GHz Ant11	Yes	Yes	Yes	/
3	WWAN + WLAN 2.4GHz MIMO	Yes	Yes	Yes	/
4	WWAN + WLAN 5GHz Ant9 + BT Ant11	Yes	Yes	Yes	/
5	WWAN + WLAN 5GHz Ant10 + BT Ant8	Yes	Yes	Yes	/
6	WWAN + WLAN 5GHz MIMO	Yes	Yes	Yes	/
7	WLAN 5GHz Ant9 + NFC	/	/	/	Yes
8	WLAN 5GHz Ant10 + NFC	/	/	/	Yes
9	WLAN 5GHz MIMO + NFC	/	/	/	Yes

Note:

- 1) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.

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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)								
		Main	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
GSM850	Left cheek	0.112	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.017	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.096	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
GSM1900	Left cheek	0.462	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.589	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.590	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.635	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
WCDMA B2	Left cheek	0.548	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.697	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.738	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.795	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
WCDMA B4	Left cheek	0.461	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.588	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.692	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.799	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
WCDMA B5	Left cheek	0.176	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.015	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.108	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 2	Left cheek	0.541	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.627	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.823	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.874	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 4	Left cheek	0.503	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.566	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.746	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.839	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 7	Left cheek	0.499	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.535	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.527	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.825	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 12	Left cheek	0.101	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.029	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.277	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.035	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 13	Left cheek	0.088	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.057	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.170	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.073	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 26	Left cheek	0.155	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.013	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.071	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177



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	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 38	Left cheek	0.184	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.261	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.301	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.561	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 41	Left cheek	0.551	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.361	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.678	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.718	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 66	Left cheek	0.535	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.591	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.810	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.906	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
LTE Band 71	Left cheek	0.176	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.006	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.102	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n2	Left cheek	0.459	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.478	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.666	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.722	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n7	Left cheek	0.505	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.522	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.454	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.683	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n26	Left cheek	0.151	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.017	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.067	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n38	Left cheek	0.238	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.341	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.453	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.665	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n41	Left cheek	0.536	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.230	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.386	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.715	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n66	Left cheek	0.428	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.473	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.729	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.833	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
FR1 n71	Left cheek	0.129	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.006	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.092	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.001	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
GSM850	Left cheek	0.651	0.382	0.502	1.101	0.855	0.709
	Left tilted	0.562	0.079	0.548	0.745	0.866	0.584
	Right cheek	0.370	0.238	0.331	0.489	0.668	0.498
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491
GSM1900	Left cheek	1.001	0.732	0.852	1.451	1.205	1.059
	Left tilted	1.134	0.651	1.120	1.317	1.438	1.156
	Right cheek	0.864	0.732	0.825	0.983	1.162	0.992
	Right tilted	0.924	0.691	0.919	0.925	1.305	1.125
WCDMA B2	Left cheek	1.087	0.818	0.938	1.537	1.291	1.145
	Left tilted	1.242	0.759	1.228	1.425	1.546	1.264
	Right cheek	1.012	0.880	0.973	1.131	1.310	1.140
	Right tilted	1.084	0.851	1.079	1.085	1.465	1.285
WCDMA B4	Left cheek	1.000	0.731	0.851	1.450	1.204	1.058
	Left tilted	1.133	0.650	1.119	1.316	1.437	1.155
	Right cheek	0.966	0.834	0.927	1.085	1.264	1.094
	Right tilted	1.088	0.855	1.083	1.089	1.469	1.289
WCDMA B5	Left cheek	0.715	0.446	0.566	1.165	0.919	0.773
	Left tilted	0.560	0.077	0.546	0.743	0.864	0.582
	Right cheek	0.382	0.250	0.343	0.501	0.680	0.510
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491
LTE Band 2	Left cheek	1.080	0.811	0.931	1.530	1.284	1.138
	Left tilted	1.172	0.689	1.158	1.355	1.476	1.194
	Right cheek	1.097	0.965	1.058	1.216	1.395	1.225
	Right tilted	1.163	0.930	1.158	1.164	1.544	1.364
LTE Band 4	Left cheek	1.042	0.773	0.893	1.492	1.246	1.100
	Left tilted	1.111	0.628	1.097	1.294	1.415	1.133
	Right cheek	1.020	0.888	0.981	1.139	1.318	1.148
	Right tilted	1.128	0.895	1.123	1.129	1.509	1.329
LTE Band 7	Left cheek	1.038	0.769	0.889	1.488	1.242	1.096
	Left tilted	1.080	0.597	1.066	1.263	1.384	1.102
	Right cheek	0.801	0.669	0.762	0.920	1.099	0.929
	Right tilted	1.114	0.881	1.109	1.115	1.495	1.315
LTE Band 12	Left cheek	0.640	0.371	0.491	1.090	0.844	0.698
	Left tilted	0.574	0.091	0.560	0.757	0.878	0.596
	Right cheek	0.551	0.419	0.512	0.670	0.849	0.679
	Right tilted	0.324	0.091	0.319	0.325	0.705	0.525
LTE Band 13	Left cheek	0.627	0.358	0.478	1.077	0.831	0.685
	Left tilted	0.602	0.119	0.588	0.785	0.906	0.624
	Right cheek	0.444	0.312	0.405	0.563	0.742	0.572
	Right tilted	0.362	0.129	0.357	0.363	0.743	0.563
LTE Band 26	Left cheek	0.694	0.425	0.545	1.144	0.898	0.752
	Left tilted	0.558	0.075	0.544	0.741	0.862	0.580
	Right cheek	0.345	0.213	0.306	0.464	0.643	0.473
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491
LTE Band 38	Left cheek	0.723	0.454	0.574	1.173	0.927	0.781
	Left tilted	0.806	0.323	0.792	0.989	1.110	0.828



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	Right cheek	0.575	0.443	0.536	0.694	0.873	0.703
	Right tilted	0.850	0.617	0.845	0.851	1.231	1.051
LTE Band 41	Left cheek	1.090	0.821	0.941	1.540	1.294	1.148
	Left tilted	0.906	0.423	0.892	1.089	1.210	0.928
	Right cheek	0.952	0.820	0.913	1.071	1.250	1.080
	Right tilted	1.007	0.774	1.002	1.008	1.388	1.208
LTE Band 66	Left cheek	1.074	0.805	0.925	1.524	1.278	1.132
	Left tilted	1.136	0.653	1.122	1.319	1.440	1.158
	Right cheek	1.084	0.952	1.045	1.203	1.382	1.212
	Right tilted	1.195	0.962	1.190	1.196	1.576	1.396
LTE Band 71	Left cheek	0.715	0.446	0.566	1.165	0.919	0.773
	Left tilted	0.551	0.068	0.537	0.734	0.855	0.573
	Right cheek	0.376	0.244	0.337	0.495	0.674	0.504
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491
FR1 n2	Left cheek	0.998	0.729	0.849	1.448	1.202	1.056
	Left tilted	1.023	0.540	1.009	1.206	1.327	1.045
	Right cheek	0.940	0.808	0.901	1.059	1.238	1.068
	Right tilted	1.011	0.778	1.006	1.012	1.392	1.212
FR1 n7	Left cheek	1.044	0.775	0.895	1.494	1.248	1.102
	Left tilted	1.067	0.584	1.053	1.250	1.371	1.089
	Right cheek	0.728	0.596	0.689	0.847	1.026	0.856
	Right tilted	0.972	0.739	0.967	0.973	1.353	1.173
FR1 n26	Left cheek	0.690	0.421	0.541	1.140	0.894	0.748
	Left tilted	0.562	0.079	0.548	0.745	0.866	0.584
	Right cheek	0.341	0.209	0.302	0.460	0.639	0.469
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491
FR1 n38	Left cheek	0.777	0.508	0.628	1.227	0.981	0.835
	Left tilted	0.886	0.403	0.872	1.069	1.190	0.908
	Right cheek	0.727	0.595	0.688	0.846	1.025	0.855
	Right tilted	0.954	0.721	0.949	0.955	1.335	1.155
FR1 n41	Left cheek	1.075	0.806	0.926	1.525	1.279	1.133
	Left tilted	0.775	0.292	0.761	0.958	1.079	0.797
	Right cheek	0.660	0.528	0.621	0.779	0.958	0.788
	Right tilted	1.004	0.771	0.999	1.005	1.385	1.205
FR1 n66	Left cheek	0.967	0.698	0.818	1.417	1.171	1.025
	Left tilted	1.018	0.535	1.004	1.201	1.322	1.040
	Right cheek	1.003	0.871	0.964	1.122	1.301	1.131
	Right tilted	1.122	0.889	1.117	1.123	1.503	1.323
FR1 n71	Left cheek	0.668	0.399	0.519	1.118	0.872	0.726
	Left tilted	0.551	0.068	0.537	0.734	0.855	0.573
	Right cheek	0.366	0.234	0.327	0.485	0.664	0.494
	Right tilted	0.290	0.057	0.285	0.291	0.671	0.491

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Test position		SARmax (W/kg)								
		Inter-band UL CA	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
CA_2A-4A	Left cheek	0.523	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.580	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.747	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.840	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
CA_2A-66A	Left cheek	0.555	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.605	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.811	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.907	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
CA_4A-5A	Left cheek	0.123	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.078	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.186	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.056	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
CA_4A-7A	Left cheek	0.535	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.612	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.684	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.880	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
CA_5A-7A	Left cheek	0.068	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.002	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.083	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
CA_5A-66A	Left cheek	0.123	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.078	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.186	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.056	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
CA_2A-4A	Left cheek	1.062	0.793	0.913	1.512	1.266	1.120
	Left tilted	1.125	0.642	1.111	1.308	1.429	1.147
	Right cheek	1.021	0.889	0.982	1.140	1.319	1.149
	Right tilted	1.129	0.896	1.124	1.130	1.510	1.330
CA_2A-66A	Left cheek	1.094	0.825	0.945	1.544	1.298	1.152
	Left tilted	1.150	0.667	1.136	1.333	1.454	1.172
	Right cheek	1.085	0.953	1.046	1.204	1.383	1.213
	Right tilted	1.196	0.963	1.191	1.197	1.577	1.397
CA_4A-5A	Left cheek	0.662	0.393	0.513	1.112	0.866	0.720
	Left tilted	0.623	0.140	0.609	0.806	0.927	0.645
	Right cheek	0.460	0.328	0.421	0.579	0.758	0.588
	Right tilted	0.345	0.112	0.340	0.346	0.726	0.546
CA_4A-7A	Left cheek	1.074	0.805	0.925	1.524	1.278	1.132
	Left tilted	1.157	0.674	1.143	1.340	1.461	1.179
	Right cheek	0.958	0.826	0.919	1.077	1.256	1.086
	Right tilted	1.169	0.936	1.164	1.170	1.550	1.370
CA_5A-7A	Left cheek	0.607	0.338	0.458	1.057	0.811	0.665
	Left tilted	0.547	0.064	0.533	0.730	0.851	0.569
	Right cheek	0.357	0.225	0.318	0.476	0.655	0.485
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
CA_5A-66A	Left cheek	0.662	0.393	0.513	1.112	0.866	0.720
	Left tilted	0.623	0.140	0.609	0.806	0.927	0.645
	Right cheek	0.460	0.328	0.421	0.579	0.758	0.588
	Right tilted	0.345	0.112	0.340	0.346	0.726	0.546

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Test position		SARmax (W/kg)								
		EN-DC Max SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
DC_2A-n5A	Left cheek	0.073	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.015	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.062	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_2A-n66A	Left cheek	0.448	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.487	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.730	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.834	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_2A-n71A	Left cheek	0.032	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.020	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.002	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_4A-n7A	Left cheek	0.142	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.078	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.207	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.056	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_4A-n38A	Left cheek	0.338	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.418	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.610	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.720	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_4A-n41A	Left cheek	0.265	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.307	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.543	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.770	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_5A-n7A	Left cheek	0.065	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.002	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.079	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_5A-n38A	Left cheek	0.057	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.002	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.070	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_5A-n66A	Left cheek	0.105	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.066	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.177	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.062	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_7A-n5A	Left cheek	0.098	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.002	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.115	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_7A-n66A	Left cheek	0.473	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.474	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.783	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.834	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168

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DC_7A-n71A	Left cheek	0.057	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.007	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.055	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_12A-n66A	Left cheek	0.093	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.066	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.160	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.062	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_26A-n41A	Left cheek	0.057	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.002	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.070	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n2A	Left cheek	0.559	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.555	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.823	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.777	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n5A	Left cheek	0.153	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.078	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.218	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.056	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n7A	Left cheek	0.424	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.599	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.611	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.738	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n38A	Left cheek	0.338	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.418	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.610	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.720	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n41A	Left cheek	0.265	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.307	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.543	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.770	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_66A-n71A	Left cheek	0.112	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.083	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.158	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.056	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_71A-n2A	Left cheek	0.131	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.040	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.057	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.002	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168
DC_71A-n66A	Left cheek	0.096	0.539	0.270	0.390	0.662	0.416	0.597	0.327	0.327
	Left tilted	0.069	0.545	0.062	0.531	0.323	0.444	0.567	0.405	0.405
	Right cheek	0.149	0.274	0.142	0.235	0.216	0.395	0.402	0.177	0.177
	Right tilted	0.062	0.289	0.056	0.284	0.122	0.502	0.490	0.168	0.168



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
DC_2A-n5A	Left cheek	0.612	0.343	0.463	1.062	0.816	0.670
	Left tilted	0.560	0.077	0.546	0.743	0.864	0.582
	Right cheek	0.336	0.204	0.297	0.455	0.634	0.464
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_2A-n66A	Left cheek	0.987	0.718	0.838	1.437	1.191	1.045
	Left tilted	1.032	0.549	1.018	1.215	1.336	1.054
	Right cheek	1.004	0.872	0.965	1.123	1.302	1.132
	Right tilted	1.123	0.890	1.118	1.124	1.504	1.324
DC_2A-n71A	Left cheek	0.571	0.302	0.422	1.021	0.775	0.629
	Left tilted	0.565	0.082	0.551	0.748	0.869	0.587
	Right cheek	0.276	0.144	0.237	0.395	0.574	0.404
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_4A-n7A	Left cheek	0.681	0.412	0.532	1.131	0.885	0.739
	Left tilted	0.623	0.140	0.609	0.806	0.927	0.645
	Right cheek	0.481	0.349	0.442	0.600	0.779	0.609
	Right tilted	0.345	0.112	0.340	0.346	0.726	0.546
DC_4A-n38A	Left cheek	0.877	0.608	0.728	1.327	1.081	0.935
	Left tilted	0.963	0.480	0.949	1.146	1.267	0.985
	Right cheek	0.884	0.752	0.845	1.003	1.182	1.012
	Right tilted	1.009	0.776	1.004	1.010	1.390	1.210
DC_4A-n41A	Left cheek	0.804	0.535	0.655	1.254	1.008	0.862
	Left tilted	0.852	0.369	0.838	1.035	1.156	0.874
	Right cheek	0.817	0.685	0.778	0.936	1.115	0.945
	Right tilted	1.059	0.826	1.054	1.060	1.440	1.260
DC_5A-n7A	Left cheek	0.604	0.335	0.455	1.054	0.808	0.662
	Left tilted	0.547	0.064	0.533	0.730	0.851	0.569
	Right cheek	0.353	0.221	0.314	0.472	0.651	0.481
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_5A-n38A	Left cheek	0.596	0.327	0.447	1.046	0.800	0.654
	Left tilted	0.547	0.064	0.533	0.730	0.851	0.569
	Right cheek	0.344	0.212	0.305	0.463	0.642	0.472
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_5A-n66A	Left cheek	0.644	0.375	0.495	1.094	0.848	0.702
	Left tilted	0.611	0.128	0.597	0.794	0.915	0.633
	Right cheek	0.451	0.319	0.412	0.570	0.749	0.579
	Right tilted	0.351	0.118	0.346	0.352	0.732	0.552
DC_7A-n5A	Left cheek	0.637	0.368	0.488	1.087	0.841	0.695
	Left tilted	0.547	0.064	0.533	0.730	0.851	0.569
	Right cheek	0.389	0.257	0.350	0.508	0.687	0.517
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_7A-n66A	Left cheek	1.012	0.743	0.863	1.462	1.216	1.070
	Left tilted	1.019	0.536	1.005	1.202	1.323	1.041
	Right cheek	1.057	0.925	1.018	1.176	1.355	1.185
	Right tilted	1.123	0.890	1.118	1.124	1.504	1.324
DC_7A-n71A	Left cheek	0.596	0.327	0.447	1.046	0.800	0.654
	Left tilted	0.552	0.069	0.538	0.735	0.856	0.574



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	Right cheek	0.329	0.197	0.290	0.448	0.627	0.457
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_12A-n66A	Left cheek	0.632	0.363	0.483	1.082	0.836	0.690
	Left tilted	0.611	0.128	0.597	0.794	0.915	0.633
	Right cheek	0.434	0.302	0.395	0.553	0.732	0.562
	Right tilted	0.351	0.118	0.346	0.352	0.732	0.552
DC_26A-n41A	Left cheek	0.596	0.327	0.447	1.046	0.800	0.654
	Left tilted	0.547	0.064	0.533	0.730	0.851	0.569
	Right cheek	0.344	0.212	0.305	0.463	0.642	0.472
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_66A-n2A	Left cheek	1.098	0.829	0.949	1.548	1.302	1.156
	Left tilted	1.100	0.617	1.086	1.283	1.404	1.122
	Right cheek	1.097	0.965	1.058	1.216	1.395	1.225
	Right tilted	1.066	0.833	1.061	1.067	1.447	1.267
DC_66A-n5A	Left cheek	0.692	0.423	0.543	1.142	0.896	0.750
	Left tilted	0.623	0.140	0.609	0.806	0.927	0.645
	Right cheek	0.492	0.360	0.453	0.611	0.790	0.620
	Right tilted	0.345	0.112	0.340	0.346	0.726	0.546
DC_66A-n7A	Left cheek	0.963	0.694	0.814	1.413	1.167	1.021
	Left tilted	1.144	0.661	1.130	1.327	1.448	1.166
	Right cheek	0.885	0.753	0.846	1.004	1.183	1.013
	Right tilted	1.027	0.794	1.022	1.028	1.408	1.228
DC_66A-n38A	Left cheek	0.877	0.608	0.728	1.327	1.081	0.935
	Left tilted	0.963	0.480	0.949	1.146	1.267	0.985
	Right cheek	0.884	0.752	0.845	1.003	1.182	1.012
	Right tilted	1.009	0.776	1.004	1.010	1.390	1.210
DC_66A-n41A	Left cheek	0.804	0.535	0.655	1.254	1.008	0.862
	Left tilted	0.852	0.369	0.838	1.035	1.156	0.874
	Right cheek	0.817	0.685	0.778	0.936	1.115	0.945
	Right tilted	1.059	0.826	1.054	1.060	1.440	1.260
DC_66A-n71A	Left cheek	0.651	0.382	0.502	1.101	0.855	0.709
	Left tilted	0.628	0.145	0.614	0.811	0.932	0.650
	Right cheek	0.432	0.300	0.393	0.551	0.730	0.560
	Right tilted	0.345	0.112	0.340	0.346	0.726	0.546
DC_71A-n2A	Left cheek	0.670	0.401	0.521	1.120	0.874	0.728
	Left tilted	0.585	0.102	0.571	0.768	0.889	0.607
	Right cheek	0.331	0.199	0.292	0.450	0.629	0.459
	Right tilted	0.291	0.058	0.286	0.292	0.672	0.492
DC_71A-n66A	Left cheek	0.635	0.366	0.486	1.085	0.839	0.693
	Left tilted	0.614	0.131	0.600	0.797	0.918	0.636
	Right cheek	0.423	0.291	0.384	0.542	0.721	0.551
	Right tilted	0.351	0.118	0.346	0.352	0.732	0.552



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LTE Band ULCA	Exposure position		SAR	LTE B4	LTE B5	LTE B7		LTE B66		Inter-band CA Summed SAR					
				Ant4	Ant0	Ant3	Ant4	Ant3	Ant4						
			1	2	3	4	5	6	7	1+2	1+3	1+4	1+5	1+6	1+7
LTE B2	Ant3	Left cheek	0.020	0.503	0.023	0.045	0.435	0.100	0.535	0.523	/	/	/	/	0.555
		Left tilted	0.014	0.566	0.001	0.001	0.535	0.077	0.591	0.580	/	/	/	/	0.605
		Right cheek	0.001	0.746	0.029	0.054	0.527	0.157	0.810	0.747	/	/	/	/	0.811
		Right tilted	0.001	0.839	0.001	0.001	0.825	0.055	0.906	0.840	/	/	/	/	0.907
LTE B4	Ant3	Left cheek	0.100	0.503	0.023	0.045	0.435	0.100	0.535	/	0.123	/	0.535	/	/
		Left tilted	0.077	0.566	0.001	0.001	0.535	0.077	0.591	/	0.078	/	0.612	/	/
		Right cheek	0.157	0.746	0.029	0.054	0.527	0.157	0.810	/	0.186	/	0.684	/	/
		Right tilted	0.055	0.839	0.001	0.001	0.825	0.055	0.906	/	0.056	/	0.880	/	/
LTE B5	Ant0	Left cheek	0.023	0.503	0.023	0.045	0.435	0.100	0.535	/	/	0.068	/	0.123	/
		Left tilted	0.001	0.566	0.001	0.001	0.535	0.077	0.591	/	/	0.002	/	0.078	/
		Right cheek	0.029	0.746	0.029	0.054	0.527	0.157	0.810	/	/	0.083	/	0.186	/
		Right tilted	0.001	0.839	0.001	0.001	0.825	0.055	0.906	/	/	0.002	/	0.056	/

LTE Band (EN_DC)	Exposure position		SAR	n2		n5	n7		n38		n41		n66		n71
				Ant3	Ant4	Ant0	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant0
			1	2	3	4	5	6	7	8	9	10	11	12	13
Band 2	Ant3	Left cheek	0.020	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.014	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.001	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 4	Ant3	Left cheek	0.100	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.077	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.157	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.055	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 5	Ant0	Left cheek	0.023	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.001	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.029	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 7	Ant3	Left cheek	0.045	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.001	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.054	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 12	Ant0	Left cheek	0.011	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.001	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.012	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 26	Ant0	Left cheek	0.023	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.001	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.029	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 66	Ant3	Left cheek	0.100	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.077	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006
		Right cheek	0.157	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
		Right tilted	0.055	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001
Band 71	Ant0	Left cheek	0.014	0.117	0.459	0.053	0.042	0.324	0.034	0.238	0.034	0.165	0.082	0.428	0.012
		Left tilted	0.004	0.036	0.478	0.001	0.001	0.522	0.001	0.341	0.001	0.230	0.065	0.473	0.006



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	Right cheek	0.001	0.056	0.666	0.061	0.050	0.454	0.041	0.453	0.041	0.386	0.148	0.729	0.001
	Right tilted	0.001	0.001	0.722	0.001	0.001	0.683	0.001	0.665	0.001	0.715	0.061	0.833	0.001

LTE Band (EN_DC)	Exposure position		EN_DC Summed SAR											
			1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10	1+11	1+12	1+13
Band 2	Ant3	Left cheek	/	/	0.073	/	/	/	/	/	/	/	0.448	0.032
		Left tilted	/	/	0.015	/	/	/	/	/	/	/	0.487	0.020
		Right cheek	/	/	0.062	/	/	/	/	/	/	/	0.730	0.002
		Right tilted	/	/	0.002	/	/	/	/	/	/	/	0.834	0.002
Band 4	Ant3	Left cheek	/	/	/	0.142	/	/	0.338	/	0.265	/	/	/
		Left tilted	/	/	/	0.078	/	/	0.418	/	0.307	/	/	/
		Right cheek	/	/	/	0.207	/	/	0.610	/	0.543	/	/	/
		Right tilted	/	/	/	0.056	/	/	0.720	/	0.770	/	/	/
Band 5	Ant0	Left cheek	/	/	/	0.065	/	0.057	/	/	/	0.105	/	/
		Left tilted	/	/	/	0.002	/	0.002	/	/	/	0.066	/	/
		Right cheek	/	/	/	0.079	/	0.070	/	/	/	0.177	/	/
		Right tilted	/	/	/	0.002	/	0.002	/	/	/	0.062	/	/
Band 7	Ant3	Left cheek	/	/	0.098	/	/	/	/	/	/	/	0.473	0.057
		Left tilted	/	/	0.002	/	/	/	/	/	/	/	0.474	0.007
		Right cheek	/	/	0.115	/	/	/	/	/	/	/	0.783	0.055
		Right tilted	/	/	0.002	/	/	/	/	/	/	/	0.834	0.002
Band 12	Ant0	Left cheek	/	/	/	/	/	/	/	/	/	0.093	/	/
		Left tilted	/	/	/	/	/	/	/	/	/	0.066	/	/
		Right cheek	/	/	/	/	/	/	/	/	/	0.160	/	/
		Right tilted	/	/	/	/	/	/	/	/	/	0.062	/	/
Band 26	Ant0	Left cheek	/	/	/	/	/	/	/	0.057	/	/	/	/
		Left tilted	/	/	/	/	/	/	/	0.002	/	/	/	/
		Right cheek	/	/	/	/	/	/	/	0.070	/	/	/	/
		Right tilted	/	/	/	/	/	/	/	0.002	/	/	/	/
Band 66	Ant3	Left cheek	/	0.559	0.153	/	0.424	/	0.338	/	0.265	/	/	0.112
		Left tilted	/	0.555	0.078	/	0.599	/	0.418	/	0.307	/	/	0.083
		Right cheek	/	0.823	0.218	/	0.611	/	0.610	/	0.543	/	/	0.158
		Right tilted	/	0.777	0.056	/	0.738	/	0.720	/	0.770	/	/	0.056
Band 71	Ant0	Left cheek	0.131	/	/	/	/	/	/	/	/	0.096	/	/
		Left tilted	0.040	/	/	/	/	/	/	/	/	0.069	/	/
		Right cheek	0.057	/	/	/	/	/	/	/	/	0.149	/	/
		Right tilted	0.002	/	/	/	/	/	/	/	/	0.062	/	/

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

Test position		SARmax (W/kg)								
		Main	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
GSM850	Front side	0.081	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.111	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
GSM1900	Front side	0.241	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.301	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
WCDMA B2	Front side	0.353	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.438	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
WCDMA B4	Front side	0.336	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.640	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
WCDMA B5	Front side	0.102	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.129	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 2	Front side	0.462	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.558	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 4	Front side	0.295	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.396	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 7	Front side	0.218	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.393	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 12	Front side	0.256	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.285	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 13	Front side	0.173	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.188	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 26	Front side	0.064	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.082	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 38	Front side	0.176	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.313	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 41	Front side	0.192	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.310	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 66	Front side	0.445	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.839	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
LTE Band 71	Front side	0.093	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.103	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n2	Front side	0.280	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.406	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n7	Front side	0.188	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.262	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n26	Front side	0.064	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.082	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n38	Front side	0.125	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.252	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n41	Front side	0.276	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.375	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n66	Front side	0.336	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.591	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
FR1 n71	Front side	0.050	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.054	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
GSM850	Front side	0.127	0.119	0.137	0.306	0.293	0.298
	Back side	0.176	0.165	0.222	0.393	0.275	0.304
GSM1900	Front side	0.287	0.279	0.297	0.466	0.453	0.458
	Back side	0.366	0.355	0.412	0.583	0.465	0.494
WCDMA B2	Front side	0.399	0.391	0.409	0.578	0.565	0.570
	Back side	0.503	0.492	0.549	0.720	0.602	0.631
WCDMA B4	Front side	0.382	0.374	0.392	0.561	0.548	0.553
	Back side	0.705	0.694	0.751	0.922	0.804	0.833
WCDMA B5	Front side	0.148	0.140	0.158	0.327	0.314	0.319
	Back side	0.194	0.183	0.240	0.411	0.293	0.322
LTE Band 2	Front side	0.508	0.500	0.518	0.687	0.674	0.679
	Back side	0.623	0.612	0.669	0.840	0.722	0.751
LTE Band 4	Front side	0.341	0.333	0.351	0.520	0.507	0.512
	Back side	0.461	0.450	0.507	0.678	0.560	0.589
LTE Band 7	Front side	0.264	0.256	0.274	0.443	0.430	0.435
	Back side	0.458	0.447	0.504	0.675	0.557	0.586
LTE Band 12	Front side	0.302	0.294	0.312	0.481	0.468	0.473
	Back side	0.350	0.339	0.396	0.567	0.449	0.478
LTE Band 13	Front side	0.219	0.211	0.229	0.398	0.385	0.390
	Back side	0.253	0.242	0.299	0.470	0.352	0.381
LTE Band 26	Front side	0.110	0.102	0.120	0.289	0.276	0.281
	Back side	0.147	0.136	0.193	0.364	0.246	0.275
LTE Band 38	Front side	0.222	0.214	0.232	0.401	0.388	0.393
	Back side	0.378	0.367	0.424	0.595	0.477	0.506
LTE Band 41	Front side	0.238	0.230	0.248	0.417	0.404	0.409
	Back side	0.375	0.364	0.421	0.592	0.474	0.503
LTE Band 66	Front side	0.491	0.483	0.501	0.670	0.657	0.662
	Back side	0.904	0.893	0.950	1.121	1.003	1.032
LTE Band 71	Front side	0.139	0.131	0.149	0.318	0.305	0.310
	Back side	0.168	0.157	0.214	0.385	0.267	0.296
FR1 n2	Front side	0.326	0.318	0.336	0.505	0.492	0.497
	Back side	0.471	0.460	0.517	0.688	0.570	0.599
FR1 n7	Front side	0.234	0.226	0.244	0.413	0.400	0.405
	Back side	0.327	0.316	0.373	0.544	0.426	0.455
FR1 n26	Front side	0.110	0.102	0.120	0.289	0.276	0.281
	Back side	0.147	0.136	0.193	0.364	0.246	0.275
FR1 n38	Front side	0.171	0.163	0.181	0.350	0.337	0.342
	Back side	0.317	0.306	0.363	0.534	0.416	0.445
FR1 n41	Front side	0.322	0.314	0.332	0.501	0.488	0.493
	Back side	0.440	0.429	0.486	0.657	0.539	0.568
FR1 n66	Front side	0.382	0.374	0.392	0.561	0.548	0.553
	Back side	0.656	0.645	0.702	0.873	0.755	0.784
FR1 n71	Front side	0.096	0.088	0.106	0.275	0.262	0.267
	Back side	0.119	0.108	0.165	0.336	0.218	0.247



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Test position		SARmax (W/kg)								
		Inter-band UL CA	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
CA_2A-4A	Front side	0.450	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.703	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
CA_2A-66A	Front side	0.500	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.746	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
CA_4A-5A	Front side	0.538	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.946	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
CA_4A-7A	Front side	0.663	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.232	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
CA_5A-7A	Front side	0.183	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.263	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
CA_5A-66A	Front side	0.538	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.946	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037

Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
CA_2A-4A	Front side	0.496	0.488	0.506	0.675	0.662	0.667
	Back side	0.768	0.757	0.814	0.985	0.867	0.896
CA_2A-66A	Front side	0.546	0.538	0.556	0.725	0.712	0.717
	Back side	0.811	0.800	0.857	1.028	0.910	0.939
CA_4A-5A	Front side	0.584	0.576	0.594	0.763	0.750	0.755
	Back side	1.011	1.000	1.057	1.228	1.110	1.139
CA_4A-7A	Front side	0.709	0.701	0.719	0.888	0.875	0.880
	Back side	1.297	1.286	1.343	1.514	1.396	1.425
CA_5A-7A	Front side	0.229	0.221	0.239	0.408	0.395	0.400
	Back side	0.328	0.317	0.374	0.545	0.427	0.456
CA_5A-66A	Front side	0.584	0.576	0.594	0.763	0.750	0.755
	Back side	1.011	1.000	1.057	1.228	1.110	1.139

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Test position		SARmax (W/kg)								
		EN-DC Max SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
DC_2A-n5A	Front side	0.219	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.389	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_2A-n66A	Front side	0.384	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.618	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_2A-n71A	Front side	0.185	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.345	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_4A-n7A	Front side	0.491	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.947	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_4A-n38A	Front side	0.570	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.091	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_4A-n41A	Front side	0.540	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.010	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_5A-n7A	Front side	0.139	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.215	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_5A-n38A	Front side	0.143	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.209	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_5A-n66A	Front side	0.429	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.698	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_7A-n5A	Front side	0.154	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.238	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_7A-n66A	Front side	0.319	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.467	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_7A-n71A	Front side	0.120	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.194	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_12A-n66A	Front side	0.434	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.706	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_26A-n41A	Front side	0.143	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.209	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n2A	Front side	0.725	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.245	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n5A	Front side	0.509	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.921	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n7A	Front side	0.584	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.096	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n38A	Front side	0.570	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.091	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n41A	Front side	0.540	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	1.010	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_66A-n71A	Front side	0.475	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.877	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_71A-n2A	Front side	0.168	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.293	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037
DC_71A-n66A	Front side	0.385	0.046	0.038	0.056	0.181	0.168	0.217	0.044	0.044
	Back side	0.653	0.065	0.054	0.111	0.245	0.127	0.193	0.037	0.037



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
DC_2A-n5A	Front side	0.265	0.257	0.275	0.444	0.431	0.436
	Back side	0.454	0.443	0.500	0.671	0.553	0.582
DC_2A-n66A	Front side	0.430	0.422	0.440	0.609	0.596	0.601
	Back side	0.683	0.672	0.729	0.900	0.782	0.811
DC_2A-n71A	Front side	0.231	0.223	0.241	0.410	0.397	0.402
	Back side	0.410	0.399	0.456	0.627	0.509	0.538
DC_4A-n7A	Front side	0.537	0.529	0.547	0.716	0.703	0.708
	Back side	1.012	1.001	1.058	1.229	1.111	1.140
DC_4A-n38A	Front side	0.616	0.608	0.626	0.795	0.782	0.787
	Back side	1.156	1.145	1.202	1.373	1.255	1.284
DC_4A-n41A	Front side	0.586	0.578	0.596	0.765	0.752	0.757
	Back side	1.075	1.064	1.121	1.292	1.174	1.203
DC_5A-n7A	Front side	0.185	0.177	0.195	0.364	0.351	0.356
	Back side	0.280	0.269	0.326	0.497	0.379	0.408
DC_5A-n38A	Front side	0.189	0.181	0.199	0.368	0.355	0.360
	Back side	0.274	0.263	0.320	0.491	0.373	0.402
DC_5A-n66A	Front side	0.475	0.467	0.485	0.654	0.641	0.646
	Back side	0.763	0.752	0.809	0.980	0.862	0.891
DC_7A-n5A	Front side	0.200	0.192	0.210	0.379	0.366	0.371
	Back side	0.303	0.292	0.349	0.520	0.402	0.431
DC_7A-n66A	Front side	0.365	0.357	0.375	0.544	0.531	0.536
	Back side	0.532	0.521	0.578	0.749	0.631	0.660
DC_7A-n71A	Front side	0.166	0.158	0.176	0.345	0.332	0.337
	Back side	0.259	0.248	0.305	0.476	0.358	0.387
DC_12A-n66A	Front side	0.480	0.472	0.490	0.659	0.646	0.651
	Back side	0.771	0.760	0.817	0.988	0.870	0.899
DC_26A-n41A	Front side	0.189	0.181	0.199	0.368	0.355	0.360
	Back side	0.274	0.263	0.320	0.491	0.373	0.402
DC_66A-n2A	Front side	0.771	0.763	0.781	0.950	0.937	0.942
	Back side	1.310	1.299	1.356	1.527	1.409	1.438
DC_66A-n5A	Front side	0.555	0.547	0.565	0.734	0.721	0.726
	Back side	0.986	0.975	1.032	1.203	1.085	1.114
DC_66A-n7A	Front side	0.630	0.622	0.640	0.809	0.796	0.801
	Back side	1.161	1.150	1.207	1.378	1.260	1.289
DC_66A-n38A	Front side	0.616	0.608	0.626	0.795	0.782	0.787
	Back side	1.156	1.145	1.202	1.373	1.255	1.284
DC_66A-n41A	Front side	0.586	0.578	0.596	0.765	0.752	0.757
	Back side	1.075	1.064	1.121	1.292	1.174	1.203
DC_66A-n71A	Front side	0.521	0.513	0.531	0.700	0.687	0.692
	Back side	0.942	0.931	0.988	1.159	1.041	1.070
DC_71A-n2A	Front side	0.214	0.206	0.224	0.393	0.380	0.385
	Back side	0.358	0.347	0.404	0.575	0.457	0.486
DC_71A-n66A	Front side	0.431	0.423	0.441	0.610	0.597	0.602
	Back side	0.718	0.707	0.764	0.935	0.817	0.846

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LTE Band ULCA	Exposure position		SAR	LTE B4	LTE B5	LTE B7		LTE B66		Inter-band CA Summed SAR					
				Ant4	Ant0	Ant3	Ant4	Ant3	Ant4						
			1	2	3	4	5	6	7	1+2	1+3	1+4	1+5	1+6	1+7
LTE B2	Ant3	Front side	0.155	0.295	0.093	0.090	0.218	0.445	0.345	0.450	/	/	/	/	0.500
		Back side	0.307	0.396	0.107	0.156	0.393	0.839	0.439	0.703	/	/	/	/	0.746
LTE B4	Ant3	Front side	0.445	0.295	0.093	0.090	0.218	0.445	0.345	/	0.538	/	0.663	/	/
		Back side	0.839	0.396	0.107	0.156	0.393	0.839	0.439	/	0.946	/	1.232	/	/
LTE B5	Ant0	Front side	0.093	0.295	0.093	0.090	0.218	0.445	0.345	/	/	0.183	/	0.538	/
		Back side	0.107	0.396	0.107	0.156	0.393	0.839	0.439	/	/	0.263	/	0.946	/

LTE Band (EN_DC)	Exposure position		SAR	n2		n5	n7		n38		n41		n66		n71
				Ant3	Ant4	Ant0	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant0
			1	2	3	4	5	6	7	8	9	10	11	12	13
Band 2	Ant3	Front side	0.155	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.307	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 4	Ant3	Front side	0.445	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.839	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 5	Ant0	Front side	0.093	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.107	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 7	Ant3	Front side	0.090	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.156	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 12	Ant0	Front side	0.098	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.115	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 26	Ant0	Front side	0.093	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.107	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 66	Ant3	Front side	0.445	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.839	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
Band 71	Ant0	Front side	0.049	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.062	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038

LTE Band (EN_DC)	Exposure position		EN_DC Summed SAR											
			1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10	1+11	1+12	1+13
Band 2	Ant3	Front side	/	/	0.219	/	/	/	/	/	/	/	0.384	0.185
		Back side	/	/	0.389	/	/	/	/	/	/	/	0.618	0.345
Band 4	Ant3	Front side	/	/	/	0.491	/	/	0.570	/	0.540	/	/	/
		Back side	/	/	/	0.947	/	/	1.091	/	1.010	/	/	/
Band 5	Ant0	Front side	/	/	/	0.139	/	0.143	/	/	/	0.429	/	/
		Back side	/	/	/	0.215	/	0.209	/	/	/	0.698	/	/
Band 7	Ant3	Front side	/	/	0.154	/	/	/	/	/	/	/	0.319	0.120
		Back side	/	/	0.238	/	/	/	/	/	/	/	0.467	0.194
Band 12	Ant0	Front side	/	/	/	/	/	/	/	/	/	0.434	/	/
		Back side	/	/	/	/	/	/	/	/	/	0.706	/	/
Band 26	Ant0	Front side	/	/	/	/	/	/	/	0.143	/	/	/	/
		Back side	/	/	/	/	/	/	/	0.209	/	/	/	/
Band 66	Ant3	Front side	/	0.725	0.509	/	0.584	/	0.570	/	0.540	/	/	0.475
		Back side	/	1.245	0.921	/	1.096	/	1.091	/	1.010	/	/	0.877
Band 71	Ant0	Front side	0.168	/	/	/	/	/	/	/	/	0.385	/	/

[illegible]

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Hotspot:

Test position		SARmax (W/kg)								
		Main	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant11(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	BT Ant8(chain0)	BT Ant11(chain1)
		1	2	3	4	5	6	7	8	9
GSM850	Front side	0.081	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.111	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.098	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.057	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Front side	0.241	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.301	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.500	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.289	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.353	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.438	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.038	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.606	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.336	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.640	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.001	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.834	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.102	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.129	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.113	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 2	Front side	0.462	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.558	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.345	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	1.042	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 4	Front side	0.295	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.396	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.139	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.522	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front side	0.218	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.393	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051



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	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.853	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.517	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n7	Front side	0.188	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.262	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.420	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.415	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n26	Front side	0.064	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.082	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.116	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n38	Front side	0.125	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.252	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.410	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n41	Front side	0.276	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.375	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.321	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.273	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n66	Front side	0.336	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.591	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.115	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.481	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.851	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n71	Front side	0.050	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.054	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.035	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
GSM850	Front side	0.141	0.118	0.136	0.289	0.234	0.230
	Back side	0.205	0.175	0.214	0.362	0.273	0.311
	Left side	0.089	0.089	0.089	0.089	0.089	0.089
	Right side	0.166	0.170	0.161	0.514	0.337	0.425
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.057	0.057	0.057	0.057	0.057	0.057



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GSM1900	Front side	0.301	0.278	0.296	0.449	0.394	0.390
	Back side	0.395	0.365	0.404	0.552	0.463	0.501
	Left side	0.155	0.155	0.155	0.155	0.155	0.155
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.598	0.539	0.604	0.701	0.883	0.739
	Bottom side	0.289	0.289	0.289	0.289	0.289	0.289
WCDMA B2	Front side	0.413	0.390	0.408	0.561	0.506	0.502
	Back side	0.532	0.502	0.541	0.689	0.600	0.638
	Left side	0.207	0.207	0.207	0.207	0.207	0.207
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.136	0.077	0.142	0.239	0.421	0.277
	Bottom side	0.606	0.606	0.606	0.606	0.606	0.606
WCDMA B4	Front side	0.396	0.373	0.391	0.544	0.489	0.485
	Back side	0.734	0.704	0.743	0.891	0.802	0.840
	Left side	0.188	0.188	0.188	0.188	0.188	0.188
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.099	0.040	0.105	0.202	0.384	0.240
	Bottom side	0.834	0.834	0.834	0.834	0.834	0.834
WCDMA B5	Front side	0.162	0.139	0.157	0.310	0.255	0.251
	Back side	0.223	0.193	0.232	0.380	0.291	0.329
	Left side	0.177	0.177	0.177	0.177	0.177	0.177
	Right side	0.181	0.185	0.176	0.529	0.352	0.440
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.074	0.074	0.074	0.074	0.074	0.074
LTE Band 2	Front side	0.522	0.499	0.517	0.670	0.615	0.611
	Back side	0.652	0.622	0.661	0.809	0.720	0.758
	Left side	0.345	0.345	0.345	0.345	0.345	0.345
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	1.140	1.081	1.146	1.243	1.425	1.281
	Bottom side	0.556	0.556	0.556	0.556	0.556	0.556
LTE Band 4	Front side	0.355	0.332	0.350	0.503	0.448	0.444
	Back side	0.490	0.460	0.499	0.647	0.558	0.596
	Left side	0.149	0.149	0.149	0.149	0.149	0.149
	Right side	0.207	0.211	0.202	0.555	0.378	0.466
	Top side	0.620	0.561	0.626	0.723	0.905	0.761
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front side	0.278	0.255	0.273	0.426	0.371	0.367
	Back side	0.487	0.457	0.496	0.644	0.555	0.593
	Left side	0.167	0.167	0.167	0.167	0.167	0.167
	Right side	0.486	0.490	0.481	0.834	0.657	0.745
	Top side	0.613	0.554	0.619	0.716	0.898	0.754
	Bottom side	0.207	0.207	0.207	0.207	0.207	0.207
LTE Band 12	Front side	0.316	0.293	0.311	0.464	0.409	0.405
	Back side	0.379	0.349	0.388	0.536	0.447	0.485
	Left side	0.648	0.648	0.648	0.648	0.648	0.648
	Right side	0.158	0.162	0.153	0.506	0.329	0.417
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.062	0.062	0.062	0.062	0.062	0.062
LTE Band 13	Front side	0.233	0.210	0.228	0.381	0.326	0.322



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	Back side	0.282	0.252	0.291	0.439	0.350	0.388
	Left side	0.455	0.455	0.455	0.455	0.455	0.455
	Right side	0.240	0.244	0.235	0.588	0.411	0.499
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.100	0.100	0.100	0.100	0.100	0.100
LTE Band 26	Front side	0.153	0.130	0.148	0.301	0.246	0.242
	Back side	0.201	0.171	0.210	0.358	0.269	0.307
	Left side	0.174	0.174	0.174	0.174	0.174	0.174
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.070	0.070	0.070	0.070	0.070	0.070
LTE Band 38	Front side	0.236	0.213	0.231	0.384	0.329	0.325
	Back side	0.407	0.377	0.416	0.564	0.475	0.513
	Left side	0.145	0.145	0.145	0.145	0.145	0.145
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.459	0.400	0.465	0.562	0.744	0.600
	Bottom side	0.250	0.250	0.250	0.250	0.250	0.250
LTE Band 41	Front side	0.252	0.229	0.247	0.400	0.345	0.341
	Back side	0.404	0.374	0.413	0.561	0.472	0.510
	Left side	0.142	0.142	0.142	0.142	0.142	0.142
	Right side	0.425	0.429	0.420	0.773	0.596	0.684
	Top side	0.547	0.488	0.553	0.650	0.832	0.688
	Bottom side	0.272	0.272	0.272	0.272	0.272	0.272
LTE Band 66	Front side	0.505	0.482	0.500	0.653	0.598	0.594
	Back side	0.933	0.903	0.942	1.090	1.001	1.039
	Left side	0.178	0.178	0.178	0.178	0.178	0.178
	Right side	0.209	0.213	0.204	0.557	0.380	0.468
	Top side	0.700	0.641	0.706	0.803	0.985	0.841
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
LTE Band 71	Front side	0.153	0.130	0.148	0.301	0.246	0.242
	Back side	0.197	0.167	0.206	0.354	0.265	0.303
	Left side	0.238	0.238	0.238	0.238	0.238	0.238
	Right side	0.122	0.126	0.117	0.470	0.293	0.381
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.001	0.001	0.001	0.001	0.001	0.001
FR1 n2	Front side	0.340	0.317	0.335	0.488	0.433	0.429
	Back side	0.500	0.470	0.509	0.657	0.568	0.606
	Left side	0.237	0.237	0.237	0.237	0.237	0.237
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.951	0.892	0.957	1.054	1.236	1.092
	Bottom side	0.517	0.517	0.517	0.517	0.517	0.517
FR1 n7	Front side	0.248	0.225	0.243	0.396	0.341	0.337
	Back side	0.356	0.326	0.365	0.513	0.424	0.462
	Left side	0.123	0.123	0.123	0.123	0.123	0.123
	Right side	0.488	0.492	0.483	0.836	0.659	0.747
	Top side	0.513	0.454	0.519	0.616	0.798	0.654
	Bottom side	0.174	0.174	0.174	0.174	0.174	0.174
FR1 n26	Front side	0.124	0.101	0.119	0.272	0.217	0.213
	Back side	0.176	0.146	0.185	0.333	0.244	0.282



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	Left side	0.147	0.147	0.147	0.147	0.147	0.147
	Right side	0.184	0.188	0.179	0.532	0.355	0.443
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.066	0.066	0.066	0.066	0.066	0.066
FR1 n38	Front side	0.185	0.162	0.180	0.333	0.278	0.274
	Back side	0.346	0.316	0.355	0.503	0.414	0.452
	Left side	0.126	0.126	0.126	0.126	0.126	0.126
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.508	0.449	0.514	0.611	0.793	0.649
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.336	0.313	0.331	0.484	0.429	0.425
	Back side	0.469	0.439	0.478	0.626	0.537	0.575
FR1 n41	Left side	0.120	0.120	0.120	0.120	0.120	0.120
	Right side	0.389	0.393	0.384	0.737	0.560	0.648
	Top side	0.371	0.312	0.377	0.474	0.656	0.512
	Bottom side	0.200	0.200	0.200	0.200	0.200	0.200
	Front side	0.396	0.373	0.391	0.544	0.489	0.485
	Back side	0.685	0.655	0.694	0.842	0.753	0.791
FR1 n66	Left side	0.169	0.169	0.169	0.169	0.169	0.169
	Right side	0.183	0.187	0.178	0.531	0.354	0.442
	Top side	0.579	0.520	0.585	0.682	0.864	0.720
	Bottom side	0.851	0.851	0.851	0.851	0.851	0.851
	Front side	0.110	0.087	0.105	0.258	0.203	0.199
	Back side	0.148	0.118	0.157	0.305	0.216	0.254
FR1 n71	Left side	0.162	0.162	0.162	0.162	0.162	0.162
	Right side	0.103	0.107	0.098	0.451	0.274	0.362
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.001	0.001	0.001	0.001	0.001	0.001
	Front side	0.110	0.087	0.105	0.258	0.203	0.199
	Back side	0.148	0.118	0.157	0.305	0.216	0.254



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Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
CA_2A-4A	Front side	0.510	0.487	0.505	0.658	0.603	0.599
	Back side	0.797	0.767	0.806	0.954	0.865	0.903
	Left side	0.232	0.232	0.232	0.232	0.232	0.232
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.620	0.561	0.626	0.723	0.905	0.761
	Bottom side	0.556	0.556	0.556	0.556	0.556	0.556
CA_2A-66A	Front side	0.560	0.537	0.555	0.708	0.653	0.649
	Back side	0.840	0.810	0.849	0.997	0.908	0.946
	Left side	0.261	0.261	0.261	0.261	0.261	0.261
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.700	0.641	0.706	0.803	0.985	0.841
	Bottom side	0.556	0.556	0.556	0.556	0.556	0.556
CA_4A-5A	Front side	0.598	0.575	0.593	0.746	0.691	0.687
	Back side	1.040	1.010	1.049	1.197	1.108	1.146
	Left side	0.170	0.170	0.170	0.170	0.170	0.170
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	1.082	1.082	1.082	1.082	1.082	1.082
CA_4A-7A	Front side	0.723	0.700	0.718	0.871	0.816	0.812
	Back side	1.326	1.296	1.335	1.483	1.394	1.432
	Left side	0.337	0.337	0.337	0.337	0.337	0.337
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.613	0.554	0.619	0.716	0.898	0.754
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
CA_5A-7A	Front side	0.243	0.220	0.238	0.391	0.336	0.332
	Back side	0.357	0.327	0.366	0.514	0.425	0.463
	Left side	0.038	0.038	0.038	0.038	0.038	0.038
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.277	0.277	0.277	0.277	0.277	0.277
CA_5A-66A	Front side	0.598	0.575	0.593	0.746	0.691	0.687
	Back side	1.040	1.010	1.049	1.197	1.108	1.146
	Left side	0.170	0.170	0.170	0.170	0.170	0.170
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	1.082	1.082	1.082	1.082	1.082	1.082



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	Right side	0.107	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_5A-n66A	Front side	0.429	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.698	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.107	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.921	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A-n5A	Front side	0.154	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.238	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.116	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.273	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A-n66A	Front side	0.319	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.467	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.481	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A-n71A	Front side	0.120	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.194	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.035	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.208	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A-n66A	Front side	0.434	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.706	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.090	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.913	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_26A-n41A	Front side	0.143	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.209	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.107	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n2A	Front side	0.725	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	1.245	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.407	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.853	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n5A	Front side	0.509	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.921	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.116	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063



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	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n7A	Front side	0.584	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	1.096	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.293	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.415	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n38A	Front side	0.570	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	1.091	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.296	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.410	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n41A	Front side	0.540	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	1.010	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.290	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.273	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A-n71A	Front side	0.475	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.877	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.035	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	1.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_71A-n2A	Front side	0.168	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.293	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.054	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_71A-n66A	Front side	0.385	0.060	0.037	0.055	0.161	0.109	0.149	0.044	0.047
	Back side	0.653	0.094	0.064	0.103	0.200	0.125	0.200	0.037	0.051
	Left side	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.054	0.068	0.072	0.063	0.353	0.192	0.327	0.047	0.063
	Top side	0.000	0.098	0.039	0.104	0.121	0.318	0.239	0.065	0.080
	Bottom side	0.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		Summed SAR					
		1+2	1+3	1+4	1+5+9	1+6+8	1+7
DC_2A-n5A	Front side	0.279	0.256	0.274	0.427	0.372	0.368
	Back side	0.483	0.453	0.492	0.640	0.551	0.589
	Left side	0.083	0.083	0.083	0.083	0.083	0.083
	Right side	0.184	0.188	0.179	0.532	0.355	0.443
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.622	0.622	0.622	0.622	0.622	0.622
DC_2A-n66A	Front side	0.444	0.421	0.439	0.592	0.537	0.533

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	Back side	0.712	0.682	0.721	0.869	0.780	0.818
	Left side	0.229	0.229	0.229	0.229	0.229	0.229
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.579	0.520	0.585	0.682	0.864	0.720
	Bottom side	0.556	0.556	0.556	0.556	0.556	0.556
DC_2A-n71A	Front side	0.245	0.222	0.240	0.393	0.338	0.334
	Back side	0.439	0.409	0.448	0.596	0.507	0.545
	Left side	0.083	0.083	0.083	0.083	0.083	0.083
	Right side	0.103	0.107	0.098	0.451	0.274	0.362
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.557	0.557	0.557	0.557	0.557	0.557
DC_4A-n7A	Front side	0.551	0.528	0.546	0.699	0.644	0.640
	Back side	1.041	1.011	1.050	1.198	1.109	1.147
	Left side	0.222	0.222	0.222	0.222	0.222	0.222
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	1.186	1.186	1.186	1.186	1.186	1.186
DC_4A-n38A	Front side	0.630	0.607	0.625	0.778	0.723	0.719
	Back side	1.185	1.155	1.194	1.342	1.253	1.291
	Left side	0.296	0.296	0.296	0.296	0.296	0.296
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.508	0.449	0.514	0.611	0.793	0.649
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
DC_4A-n41A	Front side	0.600	0.577	0.595	0.748	0.693	0.689
	Back side	1.104	1.074	1.113	1.261	1.172	1.210
	Left side	0.290	0.290	0.290	0.290	0.290	0.290
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.371	0.312	0.377	0.474	0.656	0.512
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
DC_5A-n7A	Front side	0.199	0.176	0.194	0.347	0.292	0.288
	Back side	0.309	0.279	0.318	0.466	0.377	0.415
	Left side	0.052	0.052	0.052	0.052	0.052	0.052
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.244	0.244	0.244	0.244	0.244	0.244
DC_5A-n38A	Front side	0.203	0.180	0.198	0.351	0.296	0.292
	Back side	0.303	0.273	0.312	0.460	0.371	0.409
	Left side	0.040	0.040	0.040	0.040	0.040	0.040
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.270	0.270	0.270	0.270	0.270	0.270
DC_5A-n66A	Front side	0.489	0.466	0.484	0.637	0.582	0.578
	Back side	0.792	0.762	0.801	0.949	0.860	0.898
	Left side	0.169	0.169	0.169	0.169	0.169	0.169
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.921	0.921	0.921	0.921	0.921	0.921
DC_7A-n5A	Front side	0.214	0.191	0.209	0.362	0.307	0.303
	Back side	0.332	0.302	0.341	0.489	0.400	0.438



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	Left side	0.038	0.038	0.038	0.038	0.038	0.038
	Right side	0.184	0.188	0.179	0.532	0.355	0.443
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.273	0.273	0.273	0.273	0.273	0.273
DC_7A-n66A	Front side	0.379	0.356	0.374	0.527	0.472	0.468
	Back side	0.561	0.531	0.570	0.718	0.629	0.667
	Left side	0.184	0.184	0.184	0.184	0.184	0.184
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.579	0.520	0.585	0.682	0.864	0.720
	Bottom side	0.207	0.207	0.207	0.207	0.207	0.207
	Front side	0.180	0.157	0.175	0.328	0.273	0.269
	Back side	0.288	0.258	0.297	0.445	0.356	0.394
DC_7A-n71A	Left side	0.038	0.038	0.038	0.038	0.038	0.038
	Right side	0.103	0.107	0.098	0.451	0.274	0.362
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.208	0.208	0.208	0.208	0.208	0.208
	Front side	0.494	0.471	0.489	0.642	0.587	0.583
	Back side	0.800	0.770	0.809	0.957	0.868	0.906
DC_12A-n66A	Left side	0.169	0.169	0.169	0.169	0.169	0.169
	Right side	0.158	0.162	0.153	0.506	0.329	0.417
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.913	0.913	0.913	0.913	0.913	0.913
	Front side	0.203	0.180	0.198	0.351	0.296	0.292
	Back side	0.303	0.273	0.312	0.460	0.371	0.409
DC_26A-n41A	Left side	0.040	0.040	0.040	0.040	0.040	0.040
	Right side	0.175	0.179	0.170	0.523	0.346	0.434
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.270	0.270	0.270	0.270	0.270	0.270
	Front side	0.785	0.762	0.780	0.933	0.878	0.874
	Back side	1.339	1.309	1.348	1.496	1.407	1.445
DC_66A-n2A	Left side	0.407	0.407	0.407	0.407	0.407	0.407
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.951	0.892	0.957	1.054	1.236	1.092
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
	Front side	0.569	0.546	0.564	0.717	0.662	0.658
	Back side	1.015	0.985	1.024	1.172	1.083	1.121
DC_66A-n5A	Left side	0.170	0.170	0.170	0.170	0.170	0.170
	Right side	0.184	0.188	0.179	0.532	0.355	0.443
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	1.078	1.078	1.078	1.078	1.078	1.078
	Front side	0.644	0.621	0.639	0.792	0.737	0.733
	Back side	1.190	1.160	1.199	1.347	1.258	1.296
DC_66A-n7A	Left side	0.293	0.293	0.293	0.293	0.293	0.293
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.513	0.454	0.519	0.616	0.798	0.654
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
	Front side	0.630	0.607	0.625	0.778	0.723	0.719
	Back side	1.185	1.155	1.194	1.342	1.253	1.291
DC_66A-n38A	Left side	0.296	0.296	0.296	0.296	0.296	0.296

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	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.508	0.449	0.514	0.611	0.793	0.649
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
DC_66A-n41A	Front side	0.600	0.577	0.595	0.748	0.693	0.689
	Back side	1.104	1.074	1.113	1.261	1.172	1.210
	Left side	0.290	0.290	0.290	0.290	0.290	0.290
	Right side	0.068	0.072	0.063	0.416	0.239	0.327
	Top side	0.371	0.312	0.377	0.474	0.656	0.512
	Bottom side	1.012	1.012	1.012	1.012	1.012	1.012
DC_66A-n71A	Front side	0.535	0.512	0.530	0.683	0.628	0.624
	Back side	0.971	0.941	0.980	1.128	1.039	1.077
	Left side	0.170	0.170	0.170	0.170	0.170	0.170
	Right side	0.103	0.107	0.098	0.451	0.274	0.362
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	1.013	1.013	1.013	1.013	1.013	1.013
DC_71A-n2A	Front side	0.228	0.205	0.223	0.376	0.321	0.317
	Back side	0.387	0.357	0.396	0.544	0.455	0.493
	Left side	0.074	0.074	0.074	0.074	0.074	0.074
	Right side	0.122	0.126	0.117	0.470	0.293	0.381
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.518	0.518	0.518	0.518	0.518	0.518
DC_71A-n66A	Front side	0.445	0.422	0.440	0.593	0.538	0.534
	Back side	0.747	0.717	0.756	0.904	0.815	0.853
	Left side	0.169	0.169	0.169	0.169	0.169	0.169
	Right side	0.122	0.126	0.117	0.470	0.293	0.381
	Top side	0.098	0.039	0.104	0.201	0.383	0.239
	Bottom side	0.852	0.852	0.852	0.852	0.852	0.852

LTE Band ULCA	Exposure position		SAR	LTE B4	LTE B5	LTE B7		LTE B66		Inter-band CA Summed SAR					
				Ant4	Ant0	Ant3	Ant4	Ant3	Ant4						
			1	2	3	4	5	6	7	1+2	1+3	1+4	1+5	1+6	1+7
LTE B2	Ant3	Front side	0.155	0.295	0.093	0.090	0.218	0.445	0.345	0.450	/	/	/	/	0.500
		Back side	0.307	0.396	0.107	0.156	0.393	0.839	0.439	0.703	/	/	/	/	0.746
		Left side	0.083	0.149	0.000	0.038	0.167	0.170	0.178	0.232	/	/	/	/	0.261
		Right side	0.000	0.000	0.107	0.000	0.000	0.000	0.000	0.000	/	/	/	/	0.000
		Top side	0.000	0.522	0.000	0.000	0.515	0.000	0.602	0.522	/	/	/	/	0.602
		Bottom side	0.556	0.000	0.070	0.207	0.000	1.012	0.000	0.556	/	/	/	/	0.556
LTE B4	Ant3	Front side	0.445	0.295	0.093	0.090	0.218	0.445	0.345	/	0.538	/	0.663	/	/
		Back side	0.839	0.396	0.107	0.156	0.393	0.839	0.439	/	0.946	/	1.232	/	/
		Left side	0.170	0.149	0.000	0.038	0.167	0.170	0.178	/	0.170	/	0.337	/	/
		Right side	0.000	0.000	0.107	0.000	0.000	0.000	0.000	/	0.107	/	0.000	/	/
		Top side	0.000	0.522	0.000	0.000	0.515	0.000	0.602	/	0.000	/	0.515	/	/
		Bottom side	1.012	0.000	0.070	0.207	0.000	1.012	0.000	/	1.082	/	1.012	/	/
LTE B5	Ant0	Front side	0.093	0.295	0.093	0.090	0.218	0.445	0.345	/	/	0.183	/	0.538	/
		Back side	0.107	0.396	0.107	0.156	0.393	0.839	0.439	/	/	0.263	/	0.946	/
		Left side	0.000	0.149	0.000	0.038	0.167	0.170	0.178	/	/	0.038	/	0.170	/
		Right side	0.107	0.000	0.107	0.000	0.000	0.000	0.000	/	/	0.107	/	0.107	/
		Top side	0.000	0.522	0.000	0.000	0.515	0.000	0.602	/	/	0.000	/	0.000	/
		Bottom side	0.070	0.000	0.070	0.207	0.000	1.012	0.000	/	/	0.277	/	1.082	/

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LTE Band (EN_DC)	Exposure position		SAR	n2		n5	n7		n38		n41		n66		n71
				Ant3	Ant4	Ant0	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant0
			1	2	3	4	5	6	7	8	9	10	11	12	13
Band 2	Ant3	Front side	0.155	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.307	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.083	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.556	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 4	Ant3	Front side	0.445	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.839	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.170	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	1.012	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 5	Ant0	Front side	0.093	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.107	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.000	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.107	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.070	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 7	Ant3	Front side	0.090	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.156	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.038	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.207	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 12	Ant0	Front side	0.098	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.115	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.000	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.090	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.062	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 26	Ant0	Front side	0.093	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.107	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.000	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.107	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.070	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 66	Ant3	Front side	0.445	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.839	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.170	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	1.012	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001
Band 71	Ant0	Front side	0.049	0.119	0.280	0.064	0.046	0.139	0.050	0.125	0.050	0.095	0.336	0.229	0.030
		Back side	0.062	0.231	0.406	0.082	0.108	0.257	0.102	0.252	0.102	0.171	0.591	0.311	0.038
		Left side	0.000	0.074	0.237	0.000	0.052	0.123	0.040	0.126	0.040	0.120	0.169	0.146	0.000
		Right side	0.054	0.000	0.000	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
		Top side	0.000	0.000	0.853	0.000	0.000	0.415	0.000	0.410	0.000	0.273	0.000	0.481	0.000
		Bottom side	0.001	0.517	0.000	0.066	0.174	0.000	0.200	0.000	0.200	0.000	0.851	0.000	0.001

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LTE Band (EN_DC)	Exposure position		EN_DC Summed SAR												
			1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10	1+11	1+12	1+13	
Band 2	Ant3	Front side	/	/	0.219	/	/	/	/	/	/	/	0.384	0.185	
		Back side	/	/	0.389	/	/	/	/	/	/	/	0.618	0.345	
		Left side	/	/	0.083	/	/	/	/	/	/	/	0.229	0.083	
		Right side	/	/	0.116	/	/	/	/	/	/	/	0.000	0.035	
		Top side	/	/	0.000	/	/	/	/	/	/	/	0.481	0.000	
		Bottom side	/	/	0.622	/	/	/	/	/	/	/	0.556	0.557	
Band 4	Ant3	Front side	/	/	/	0.491	/	/	0.570	/	0.540	/	/	/	
		Back side	/	/	/	0.947	/	/	1.091	/	1.010	/	/	/	
		Left side	/	/	/	0.222	/	/	0.296	/	0.290	/	/	/	
		Right side	/	/	/	0.000	/	/	0.000	/	0.000	/	/	/	
		Top side	/	/	/	0.000	/	/	0.410	/	0.273	/	/	/	
		Bottom side	/	/	/	1.186	/	/	1.012	/	1.012	/	/	/	
Band 5	Ant0	Front side	/	/	/	0.139	/	0.143	/	/	/	0.429	/	/	
		Back side	/	/	/	0.215	/	0.209	/	/	/	0.698	/	/	
		Left side	/	/	/	0.052	/	0.040	/	/	/	0.169	/	/	
		Right side	/	/	/	0.107	/	0.107	/	/	/	0.107	/	/	
		Top side	/	/	/	0.000	/	0.000	/	/	/	0.000	/	/	
		Bottom side	/	/	/	0.244	/	0.270	/	/	/	0.921	/	/	
Band 7	Ant3	Front side	/	/	0.154	/	/	/	/	/	/	/	0.319	0.120	
		Back side	/	/	0.238	/	/	/	/	/	/	/	0.467	0.194	
		Left side	/	/	0.038	/	/	/	/	/	/	/	0.184	0.038	
		Right side	/	/	0.116	/	/	/	/	/	/	/	0.000	0.035	
		Top side	/	/	0.000	/	/	/	/	/	/	/	0.481	0.000	
		Bottom side	/	/	0.273	/	/	/	/	/	/	/	0.207	0.208	
Band 12	Ant0	Front side	/	/	/	/	/	/	/	/	/	0.434	/	/	
		Back side	/	/	/	/	/	/	/	/	/	/	0.706	/	/
		Left side	/	/	/	/	/	/	/	/	/	/	0.169	/	/
		Right side	/	/	/	/	/	/	/	/	/	/	0.090	/	/
		Top side	/	/	/	/	/	/	/	/	/	/	0.000	/	/
		Bottom side	/	/	/	/	/	/	/	/	/	/	0.913	/	/
Band 26	Ant0	Front side	/	/	/	/	/	/	/	0.143	/	/	/	/	
		Back side	/	/	/	/	/	/	/	/	0.209	/	/	/	/
		Left side	/	/	/	/	/	/	/	/	0.040	/	/	/	/
		Right side	/	/	/	/	/	/	/	/	0.107	/	/	/	/
		Top side	/	/	/	/	/	/	/	/	0.000	/	/	/	/
		Bottom side	/	/	/	/	/	/	/	/	0.270	/	/	/	/
Band 66	Ant3	Front side	/	0.725	0.509	/	0.584	/	0.570	/	0.540	/	/	0.475	
		Back side	/	1.245	0.921	/	1.096	/	1.091	/	1.010	/	/	0.877	
		Left side	/	0.407	0.170	/	0.293	/	0.296	/	0.290	/	/	0.170	
		Right side	/	0.000	0.116	/	0.000	/	0.000	/	0.000	/	/	0.035	
		Top side	/	0.853	0.000	/	0.415	/	0.410	/	0.273	/	/	0.000	
		Bottom side	/	1.012	1.078	/	1.012	/	1.012	/	1.012	/	/	1.013	
Band 71	Ant0	Front side	0.168	/	/	/	/	/	/	/	/	0.385	/	/	
		Back side	0.293	/	/	/	/	/	/	/	/	0.653	/	/	
		Left side	0.074	/	/	/	/	/	/	/	/	0.169	/	/	
		Right side	0.054	/	/	/	/	/	/	/	/	0.054	/	/	
		Top side	0.000	/	/	/	/	/	/	/	/	0.000	/	/	
		Bottom side	0.518	/	/	/	/	/	/	/	/	0.852	/	/	



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Product specific 10g SAR:

Test position	SARmax (W/kg)				Summed SAR		
	WiFi 5G Ant9(chain0)	WiFi 5G Ant10(chain1)	WiFi 5G MIMO	NFC			
	1	2	3	4	1+4	2+4	3+4
Front side	0.161	0.519	0.483	0.000	0.161	0.519	0.483
Back side	0.200	0.200	0.260	0.006	0.206	0.206	0.266
Left side	/	/	/	0.000	0.000	0.000	0.000
Right side	0.353	0.285	0.846	0.000	0.353	0.285	0.846
Top side	0.121	1.898	1.974	0.000	0.121	1.898	1.974
Bottom side	/	/	/	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform		SPEAG DASY5 Professional				
		SPEAG DASY8 Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
		cDASY8 V16.4.0.5005				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	ELI V8.0	2217	NCR	NCR
☒	Twin Phantom	SPEAG	SAM8	1824	NCR	NCR
☒	DAE	SPEAG	DAE4ip	1826	2025-02-17	2026-02-16
☒	DAE	SPEAG	DAE4	1484	2024-10-15	2025-10-14
☒	E-Field Probe	SPEAG	EX3DV4	7767	2024-12-31	2025-12-30
☒	E-Field Probe	SPEAG	EX3DV4	7735	2025-01-29	2026-01-28
☒	Validation Kits	SPEAG	CLA13	1032	2023-02-09	2026-02-08
☒	Validation Kits	SPEAG	D750V3	1214	2025-04-01	2028-03-31
☒	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24
☒	Validation Kits	SPEAG	D1750V2	1105	2023-11-03	2026-11-02
☒	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03
☒	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27
☒	Validation Kits	SPEAG	D2600V2	1158	2025-03-31	2028-03-30
☒	Validation Kits	SPEAG	D5GHzV2	1174	2023-08-23	2026-08-22
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2024-08-20	2025-08-19
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	50920	2024-08-19	2025-08-18
☒	Dielectric parameter probes	SPEAG	DAKS-12	1043	2024-08-20	2025-08-19
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R60	21423005	2024-08-20	2025-08-19
☒	Universal Radio Communication Tester	R&S	CMW500	111637	2024-09-16	2025-09-15
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	R&S	SMB100A	182393	2025-02-05	2026-02-04
☒	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
☒	USB Average Power Sensor	Keysight	U2002H	MY5639004	2024-09-10	2025-09-09
☒	USB Average Power Sensor	Agilent	U2002H	MY48200110	2024-11-21	2025-11-20
☒	Average Power Sensor	R&S	NRP6A	103953	2024-11-20	2025-11-19
☒	Average Power Sensor	R&S	NRP6A	103954	2024-11-20	2025-11-19
☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR



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☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	LKM	DTM3000	NA	2024-09-16	2025-09-15
☒	Humidity and Temperature Indicator	MingGao	MingGao	NA	2024-09-16	2025-09-15

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

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