

FCC SAR TEST REPORT

Application No.: SZCR2404001497WM
Applicant: vivo Mobile Communication Co., Ltd.
Manufacturer: vivo Mobile Communication Co., Ltd.
EUT Description: Mobile phone
Model No.: V2351
Trade Mark: vivo
FCC ID: 2AUCY-V2351
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024/04/30
Date of Test: 2024/05/03 to 2024/05/30
Date of Issue: 2024/06/03

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR240400149708

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Revision History

Report Number	Revision	Description	Issue Date
SZCR240400149708	01	Original	2024/06/03

Authorized for issue by:				
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		Eric Fu		
		Eric Fu / Reviewer		



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Test Summary

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.49	0.37	0.42	/
GSM1900	0.51	0.25	0.51	/
WCDMA Band II	0.99	0.61	0.67	/
WCDMA Band IV	0.87	0.39	0.71	/
WCDMA Band V	0.68	0.36	0.52	/
LTE Band 2	0.96	0.51	0.70	/
LTE Band 7	0.92	0.47	0.64	/
LTE Band 12/17	0.66	0.25	0.27	/
LTE Band 13	0.77	0.30	0.29	/
LTE Band 26/5	0.90	0.38	0.47	/
LTE Band 41/38	0.80	0.39	0.66	/
LTE Band 66/4	0.70	0.43	0.59	/
NR Band n2	0.99	0.49	0.57	/
NR Band n5	0.91	0.34	0.50	/
NR Band n7	0.63	0.59	0.56	/
NR Band n26	0.71	0.33	0.46	/
NR Band n38	0.89	0.56	0.56	1.56
NR Band n41	0.93	0.62	0.47	/
NR Band n66	0.92	0.44	0.52	/
NR Band n77	0.62	0.40	0.71	2.62
NR Band n78	0.73	0.38	0.59	/
WI-FI (2.4GHz)	0.36	<0.10	0.20	/
WI-FI (5GHz)	0.95	0.92	0.91	1.97
BT	0.13	<0.10	<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	1.39	1.39	1.39	3.53
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

- 1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.
- 2) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755 MHz) is covered by LTE band 66 (frequency range: 1710-1780 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). The SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.

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1 General Information

1.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Claire Shen, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li

1.3 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

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

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

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

CAB identifier: CN0006.

IC#: 4620C.



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1.4 General Description of EUT

Product Name:	Mobile phone		
Model No.:	V2351		
Trade Mark:	vivo		
Product Phase:	Identical Prototype		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	865483079994671, 865483079994499 865483079994218, 865483079994754 865483079994192, 865483079994374 865483079995512		
Hardware Version:	MP_0.1		
Software Version:	PD2357GF_EX_A_14.0.5.9.W30		
Antenna Type:	PIFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK, 16QAM,64QAM 5G NR: DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI: DSSS,OFDM; BT: GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894

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	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 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2200
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5350	5150~5350
		5470~5600	5470~5600
		5650~5725	5650~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BA33	
	Normal Voltage:	3.91V	
	Rated capacity:	4880mAh	
	Manufacturer:	Dongguan NVT Technology Co., Ltd.	



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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix F

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

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

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant11	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant13	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant21	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant22	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant23	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant31	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant101	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant102	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

Table 1 : Distance of the Antenna to the EUT surface/edge

Note:

- 1) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.

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) 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.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.

The detailed power reduction information can be referred to Appendix E Conducted RF Output Power.

1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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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 2 : The Ambient Conditions



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3 SAR Measurements System Configuraion

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.

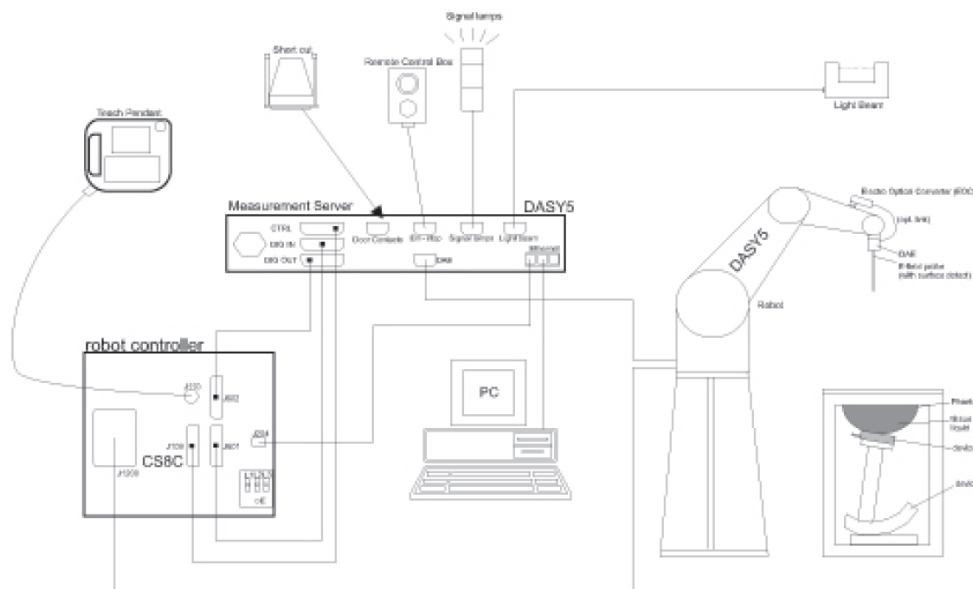
The DASY system for performing compliance tests consists of the following items:

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

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

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

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



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3.2 Isotropic E-field Probe EX3DV4

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

3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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

3.5 ELI Phantom

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

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

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

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
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: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: 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 "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

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

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

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

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

With V_i = compensated signal of channel I (I = x, y, z)

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

E-field probes:



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

H-field probes:

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

With 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



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



5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

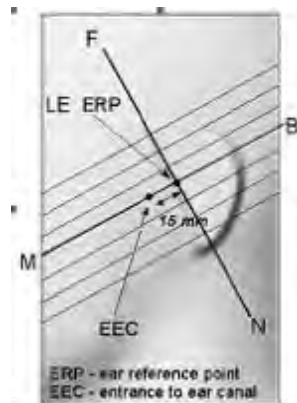


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

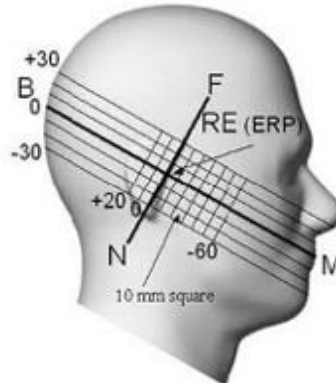
Note: The centre strip including the nose region has a different thickness tolerance.



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

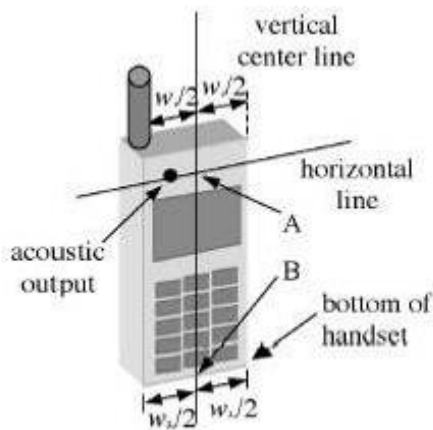


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

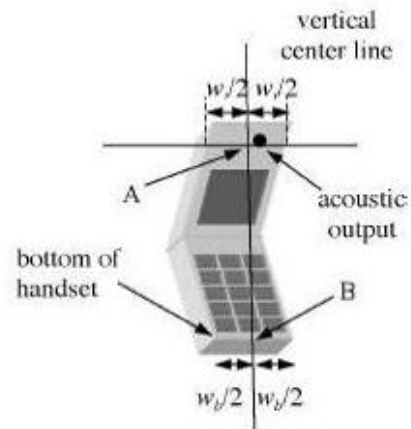


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



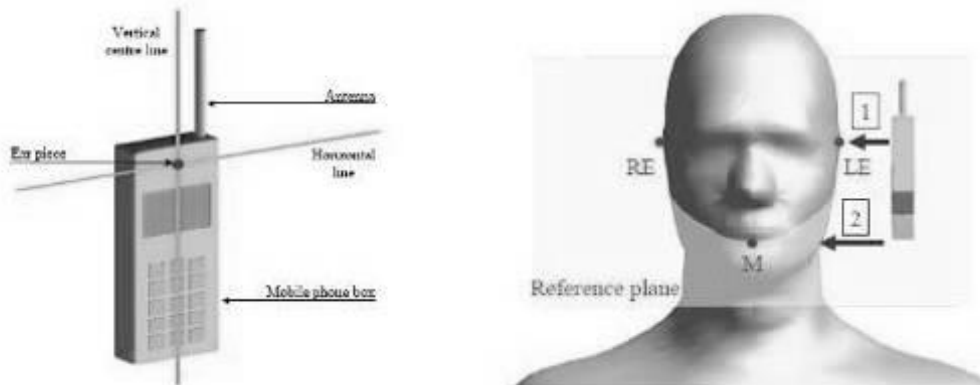
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

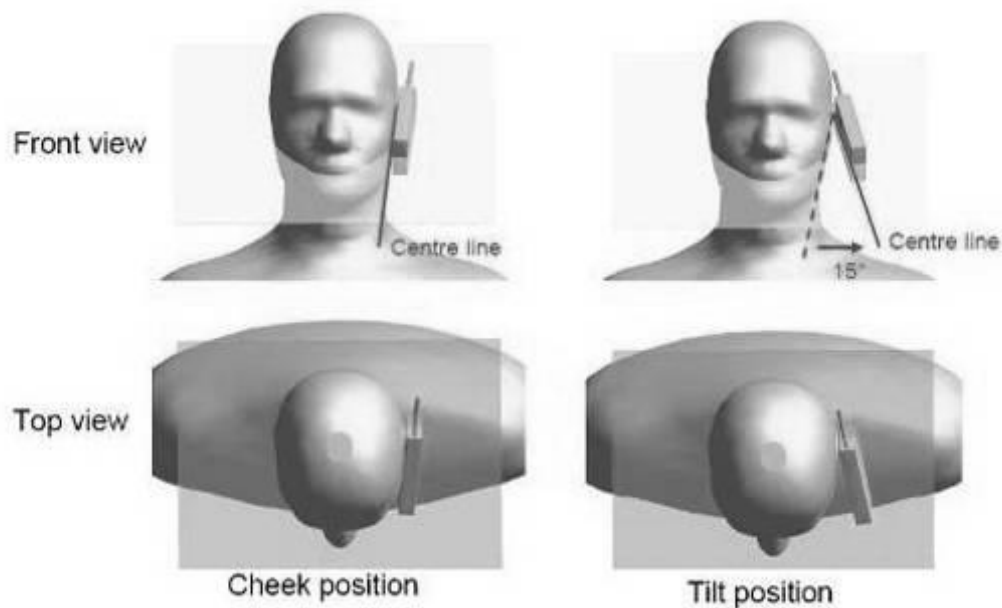
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

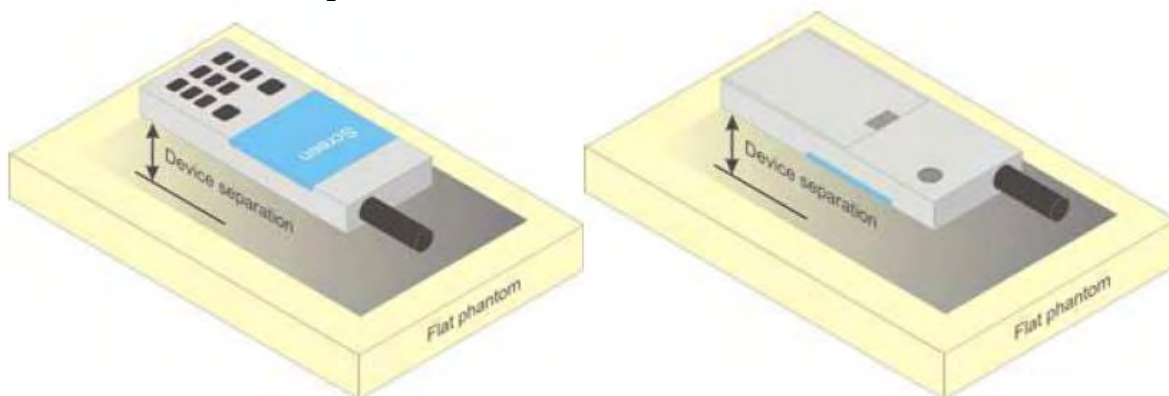
5.2.1 Body-worn accessory exposure conditions

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 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

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



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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

N38

Ant13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_104	519000/2595	100%	0.164	0.086	-0.18	17.80	22.80	3.162	0.519	Yes
Back side	40	QPSK 1_104	519000/2595	100%	0.335	0.146	-0.03	17.80	22.80	3.162	1.059	Yes
Left side	40	QPSK 1_104	519000/2595	100%	0.173	0.088	0.16	17.80	22.80	3.162	0.547	Yes
Top side	40	QPSK 1_104	519000/2595	100%	0.357	0.153	0.10	17.80	22.80	3.162	1.129	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 50_28	519000/2595	100%	0.171	0.088	0.13	17.82	22.80	3.148	0.538	Yes
Back side	40	QPSK 50_28	519000/2595	100%	0.367	0.158	0.00	17.82	22.80	3.148	1.155	Yes
Left side	40	QPSK 50_28	519000/2595	100%	0.160	0.082	0.03	17.82	22.80	3.148	0.504	Yes
Top side	40	QPSK 50_28	519000/2595	100%	0.395	0.180	-0.06	17.82	22.80	3.148	1.243	No



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR240400149708

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N77(3450-3550)MHz

Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1 1	633334/3500	100%	0.116	0.047	-0.14	14.66	18.50	2.421	0.281	Yes
Back side	100	QPSK 1 1	633334/3500	100%	0.375	0.145	0.17	14.66	18.50	2.421	0.908	Yes
Left side	100	QPSK 1 1	633334/3500	100%	0.586	0.214	0.09	14.66	18.50	2.421	1.419	No
Top side	100	QPSK 1 1	633334/3500	100%	0.005	0.002	0.06	14.66	18.50	2.421	0.012	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135 69	633334/3500	100%	0.102	0.045	0.12	14.78	18.50	2.355	0.240	Yes
Back side	100	QPSK 135 69	633334/3500	100%	0.389	0.153	-0.13	14.78	18.50	2.355	0.916	Yes
Left side	100	QPSK 135 69	633334/3500	100%	0.515	0.189	-0.10	14.78	18.50	2.355	1.213	No
Top side	100	QPSK 135 69	633334/3500	100%	0.006	0.004	-0.03	14.78	18.50	2.355	0.014	Yes



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6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

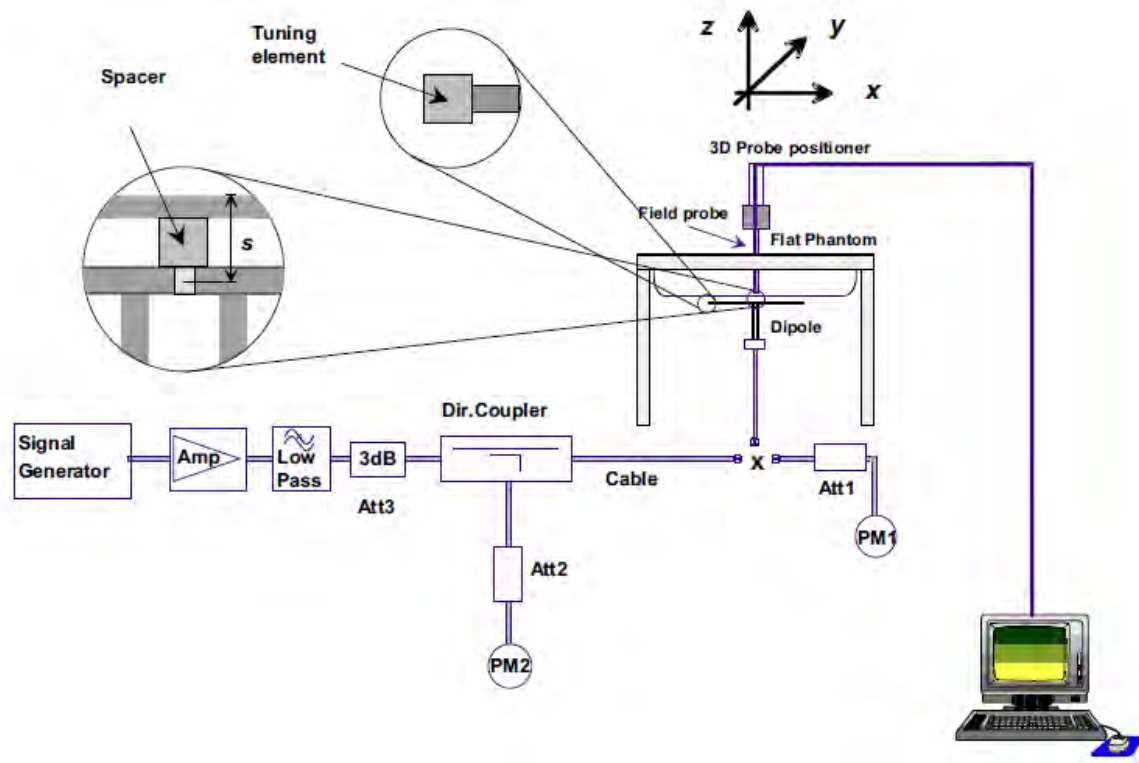
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Measurement for Tissue Simulate Liquid									
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	$\sigma(\text{S/m})$		
750 Head	750	42.678	0.885	41.90	0.89	1.86%	-0.56%	22.2	2024/5/3
835 Head	835	43.074	0.887	41.50	0.90	3.79%	-1.44%	21.9	2024/5/9
835 Head	835	43.195	0.938	41.50	0.90	4.08%	4.22%	22.1	2024/5/15
1750 Head	1750	39.022	1.352	40.10	1.37	-2.69%	-1.29%	22.2	2024/5/21
1750 Head	1750	39.128	1.326	40.10	1.37	-2.42%	-3.24%	22.3	2024/5/24
1900 Head	1900	40.275	1.390	40.00	1.40	0.69%	-0.69%	22.1	2024/5/22
1900 Head	1900	38.616	1.441	40.00	1.40	-3.46%	2.89%	22.1	2024/5/23
2450 Head	2450	39.842	1.806	39.20	1.80	1.64%	0.33%	22.2	2024/5/18
2600 Head	2600	38.834	1.934	39.00	1.96	-0.43%	-1.33%	22.3	2024/5/20
2600 Head	2600	40.015	1.927	39.00	1.96	2.60%	-1.68%	21.8	2024/5/21
2600 Head	2600	37.864	1.975	39.00	1.96	-2.91%	0.77%	21.8	2024/5/22
2600 Head	2600	37.831	2.011	39.00	1.96	-3.00%	2.60%	22.3	2024/5/29
2600 Head	2600	39.931	1.965	39.00	1.96	2.39%	0.25%	22.4	2024/5/30
3500 Head	3500	37.731	2.827	37.90	2.91	-0.45%	-2.85%	22.5	2024/5/16
3500 Head	3500	37.932	2.873	37.90	2.91	0.08%	-1.27%	22.3	2024/5/21
3700 Head	3700	36.934	3.038	37.70	3.12	-2.03%	-2.63%	22.3	2024/5/18
3700 Head	3700	36.881	2.99	37.70	3.12	-2.17%	-4.17%	22.3	2024/5/24
3900 Head	3900	36.224	3.25	37.50	3.32	-3.40%	-2.11%	22.5	2024/5/20
5250 Head	5250	36.779	4.769	35.90	4.66	2.45%	2.34%	22.5	2024/5/27
5600 Head	5600	35.876	5.180	35.50	5.07	1.06%	2.17%	22.5	2024/5/28
5750 Head	5750	35.450	5.341	35.40	5.22	0.14%	2.32%	22.5	2024/5/29

Table 4 : Measurement result of Tissue electric parameters

6.2 SAR System Check

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



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) 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.

6.2.2 Test System Verification

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements.

Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

All the probes also have been calibrated for both CW and modulated signals. Related modulation test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

For some wider frequency points, such as the n77 frequency range from 3700MHz to 3980MHz, our test probe has been calibrated at 3700MHz and 3900MHz. According to KDB Publication 865664 D02v01r02 and System Verification, our probe meets the requirements for broadband SAR testing. For more probe calibration information, please refer to Appendix C.

6.2.3 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 ±10%)		Liquid Temp. (°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)		
D750V3	Head	2.15	1.42	8.60	5.68	8.37	5.53	2.75%	2.71%	22.2	2024/5/3
D835V2	Head	2.26	1.49	9.04	5.96	9.53	6.29	-5.14%	-5.25%	21.9	2024/5/9
D835V2	Head	2.37	1.55	9.48	6.20	9.53	6.29	-0.52%	-1.43%	22.1	2024/5/15
D1750V2	Head	9.14	4.88	36.56	19.52	36.60	19.30	-0.11%	1.14%	22.2	2024/5/21
D1750V2	Head	9.28	5.02	37.12	20.08	36.60	19.30	1.42%	4.04%	22.3	2024/5/24
D1900V2	Head	10.1	5.24	40.40	20.96	39.50	20.60	2.28%	1.75%	22.1	2024/5/22
D1900V2	Head	10.1	5.22	40.40	20.88	39.50	20.60	2.28%	1.36%	22.1	2024/5/23
D2450V2	Head	13.80	6.41	55.20	25.64	52.20	24.30	5.75%	5.51%	22.2	2024/5/18
D2600V2	Head	13.30	6.01	53.20	24.04	57.70	25.80	-7.80%	-6.82%	22.3	2024/5/20
D2600V2	Head	14.20	6.36	56.80	25.44	57.70	25.80	-1.56%	-1.40%	21.8	2024/5/21
D2600V2	Head	14.40	6.47	57.60	25.88	57.70	25.80	-0.17%	0.31%	21.8	2024/5/22
D2600V2	Head	15.00	6.72	60.00	26.88	57.70	25.80	3.99%	4.19%	22.3	2024/5/29
D2600V2	Head	15.10	6.73	60.40	26.92	57.70	25.80	4.68%	4.34%	22.4	2024/5/30
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 ±10%)		Liquid Temp. (°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)		
D3500V2	Head(3.5GHz)	6.50	2.48	65.00	24.80	65.80	25.70	-1.22%	-3.50%	22.5	2024/5/16
	Head(3.5GHz)	6.71	2.56	67.10	25.60	65.80	25.70	1.98%	-0.39%	22.3	2024/5/21
D3700V2	Head(3.7GHz)	6.54	2.43	65.40	24.30	66.50	26.10	-1.65%	-6.90%	22.3	2024/5/18
	Head(3.7GHz)	6.81	2.53	68.10	25.30	66.50	26.10	2.41%	-3.07%	22.3	2024/5/24
D3900V2	Head(3.9GHz)	6.88	2.42	68.80	24.20	65.80	25.70	4.56%	-5.84%	22.5	2024/5/20
D5GHzV2	Head(5.25GHz)	7.88	2.31	78.80	23.10	77.30	22.10	1.94%	4.52%	22.5	2024/5/27
	Head(5.6GHz)	8.04	2.33	80.40	23.30	81.30	23.10	-1.11%	0.87%	22.5	2024/5/28
	Head(5.75GHz)	7.30	2.13	73.00	21.30	77.10	21.30	-5.32%	0.00%	22.5	2024/5/29

Table 5 : SAR System Check Result

6.2.4 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1’s” for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations



that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is 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	Bd	β_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 6 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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

Table 7 : HSDPA UE category

b) HSUPA

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



Sub-test ¹	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF) ²	β_c/β_d	$\beta_{hs\downarrow}$ (1) ³	$\beta_{acc\downarrow}$	$\beta_{ed\downarrow}$	$\beta_{c\downarrow}$ (SF) ⁴	$\beta_{ed\downarrow}$ (code) ⁵	CM (2) ⁶ (dB) ⁷	MP R _x (dB) ⁸	AG ⁽⁴⁾ Inde _x ⁹	E-TFC I ¹⁰
1 ¹	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ²	11/15 ⁽³⁾	22/15 ³	209/225 ⁴	1039/225 ⁵	4 ⁶	1 ⁷	1.0 ⁸	0.0 ⁹	20 ¹⁰	75 ¹¹
2 ¹	6/15 ³	15/15 ³	64 ²	6/15 ³	12/15 ³	12/15 ³	94/75 ⁴	4 ⁶	1 ⁷	3.0 ⁸	2.0 ⁹	12 ¹⁰	67 ¹¹
3 ¹	15/15 ³	9/15 ³	64 ²	15/9 ³	30/15 ³	30/15 ³	$\beta_{ed1}:47/15^4$ $\beta_{ed2}:47/15^4$	4 ⁶	2 ⁷	2.0 ⁸	1.0 ⁹	15 ¹⁰	92 ¹¹
4 ¹	2/15 ³	15/15 ³	64 ²	2/15 ³	4/15 ³	2/15 ³	56/75 ⁴	4 ⁶	1 ⁷	3.0 ⁸	2.0 ⁹	17 ¹⁰	71 ¹¹
5 ¹	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ²	15/15 ⁽⁴⁾	30/15 ³	24/15 ³	134/15 ⁴	4 ⁶	1 ⁷	1.0 ⁸	0.0 ⁹	21 ¹⁰	81 ¹¹
Note 1: ΔACK, $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$ 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 difference¹² 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 $\beta_d = 15/15$¹³ 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 $\beta_d = 15/15$¹⁴ Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g¹⁵ Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.¹⁶													

Table 8 : Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).						

Table 9 : HSUPA UE category

c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS



34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0.

A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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

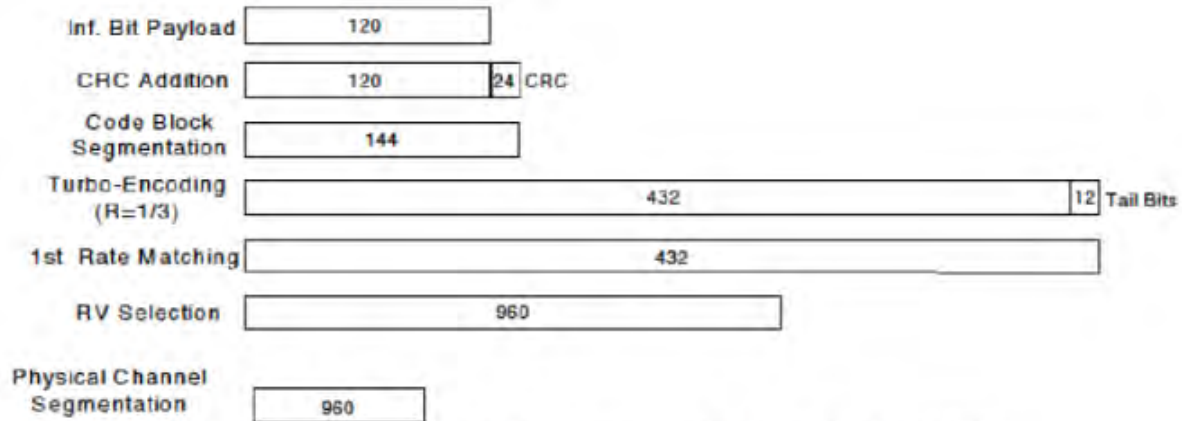


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH 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_{c+} (Note3)	β_d	β_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{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 $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

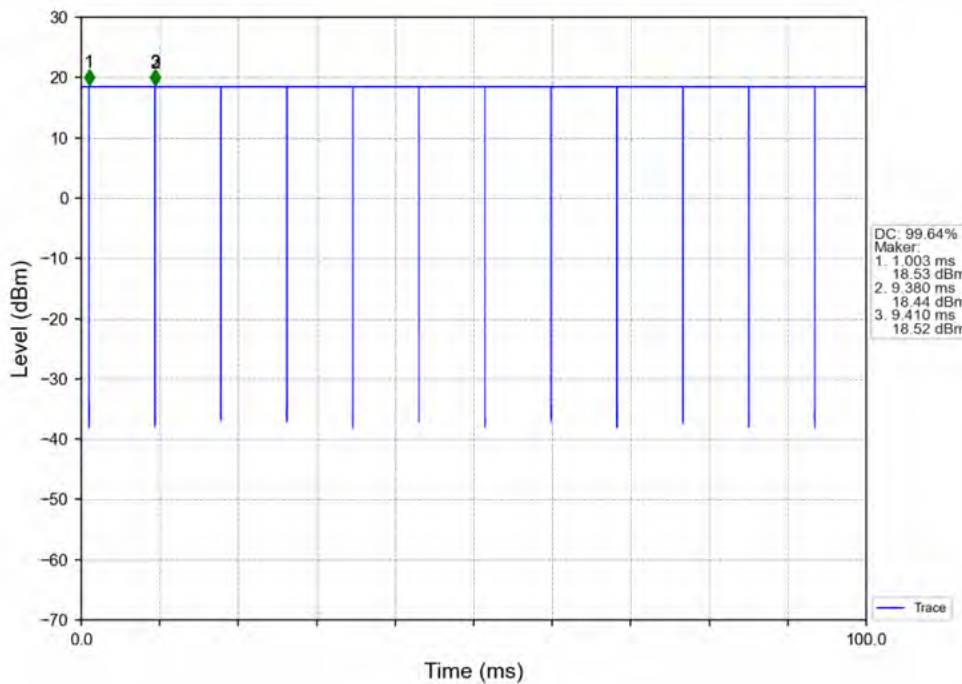
7.2.3 WIFI Test Configuration

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

7.2.3.1 Duty cycle

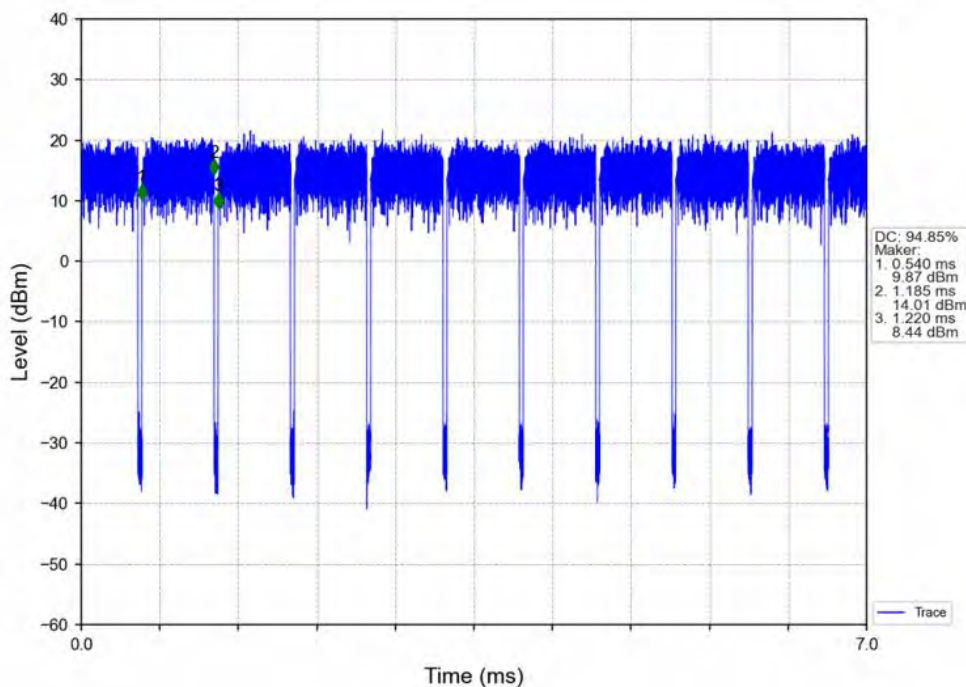
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=(9.38-1.003) / (9.41-1.003)=99.64%



2) Wi-Fi 5GHz 802.11n40:

Duty cycle=(1.185-0.54) / (1.22-0.54)=94.85%



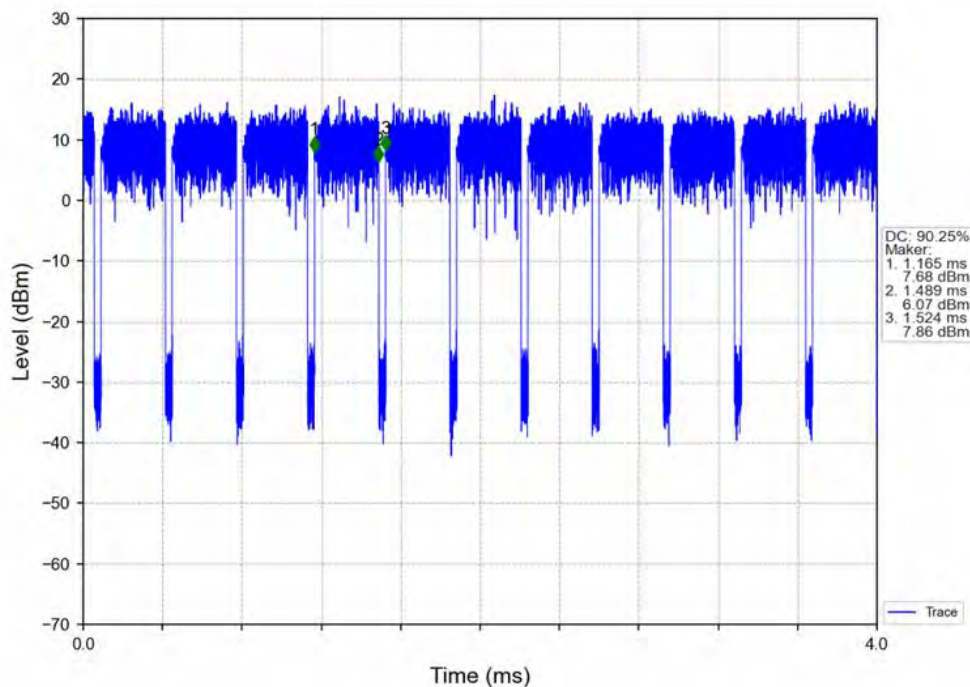
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3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=(1.489-1.165) / (1.524-1.165)=90.25 %



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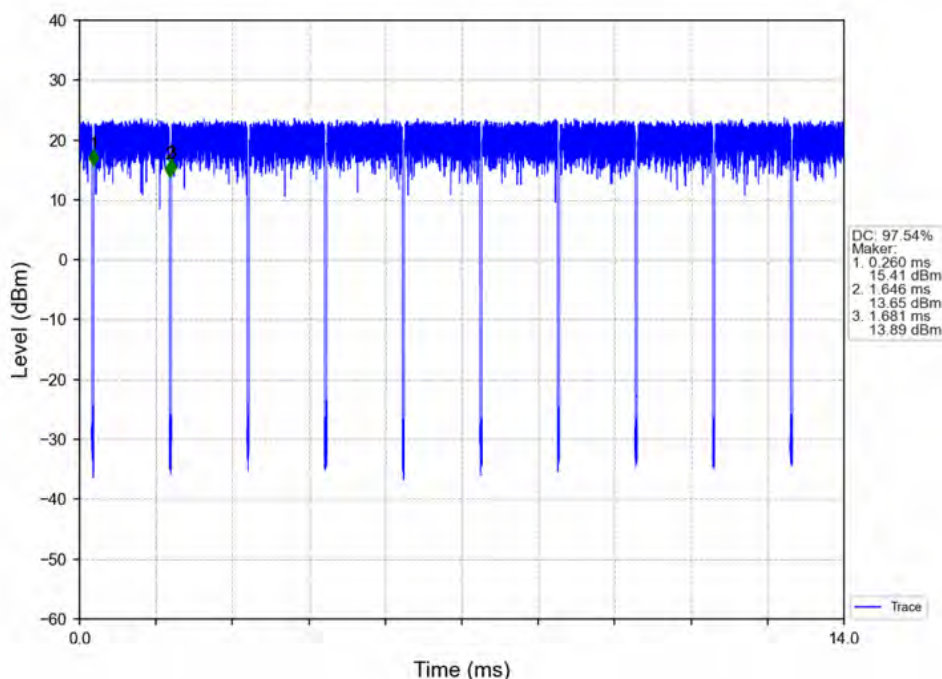
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4) Wi-Fi 5GHz 802.11a:

Duty cycle=(1.646-0.26) / (1.681-0.26)=97.54%



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.



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7.2.3.3 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"

7.2.3.4 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.

7.2.3.5 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.



7.2.4 LTE Test Configuration

Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The Radio Communication Analyzer 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:

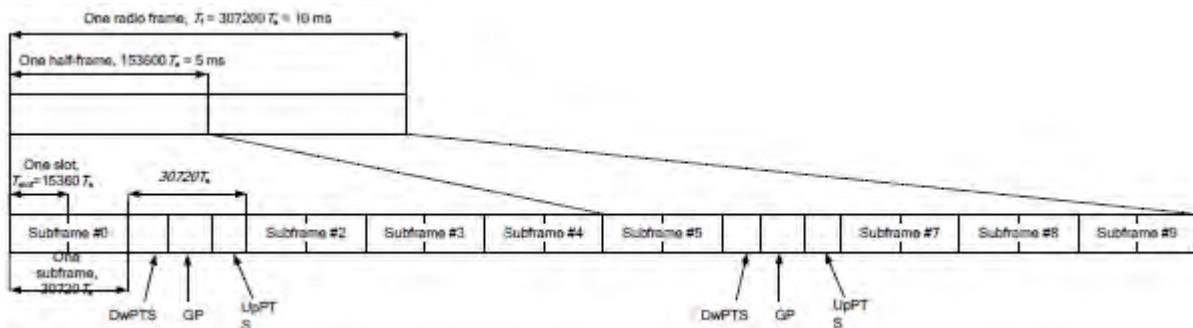


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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.

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



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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
256QAM	≥1						5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

Band	Bandwidth					
	1.4 MHz	3M MHz	5MHz	10MHz	15MHz	20MHz
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 5	Yes	Yes	Yes	Yes	N/A	N/A
LTE Band 7	N/A	N/A	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes	N/A	N/A
LTE Band 13	N/A	N/A	Yes	Yes	N/A	N/A
LTE Band 17	N/A	N/A	Yes	Yes	N/A	N/A
LTE Band 26	Yes	Yes	Yes	Yes	Yes	N/A
LTE Band 38	N/A	N/A	Yes	Yes	Yes	Yes
LTE Band 41	N/A	N/A	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes

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 ≤ 50% limit SAR value, 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 >90% limit SAR value, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

For QPSK with 50%RB, SAR is not required when the highest maximum output power for 50%RB is not higher than the maximum output power in 1 RB allocations and the highest reported SAR for 1 RB in 1) is ≤ 75% limit SAR value. Otherwise, SAR is only required measure for the worst case of 1RB allocation used the highest maximum output power channel and if the reported SAR is> 90% limit SAR value, the remaining required test channels must also be tested.

3) QPSK with 100% RB allocation

For QPSK 100% RB allocation, SAR is not required when the highest maximum output power for 100%RB allocation is not higher than the maximum output power in 1 RB allocations and the highest reported SAR for



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1 RB in 1) is $\leq 75\%$ limit SAR value. Otherwise, SAR is only required measure for the worst case of 1RB allocation used the highest maximum output power channel and if the reported SAR is $> 90\%$ limit SAR value, 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 $> 90\%$ limit SAR value.

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 $> 90\%$ limit SAR value.

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.

Downlink LTE CA
CA 7C
CA 38C
CA 41C
CA 66C
CA 5B
CA 7B
CA 66B
CA 2A-2A
CA 4A-4A
CA 5A-5A
CA 7A-7A
CA 41A-41A
CA 2A-4A

CA 2A-5A
CA 2A-7A
CA 2A-26A
CA 2A-38A
CA 2A-66A
CA 4A-5A
CA 4A-7A
CA 5A-7A
CA 5A-38A
CA 5A-41A
CA 5A-66A
CA 7A-26A
CA 7A-66A
CA 26A-38A
CA 26A-41A
CA 38A-66A
CA 66A-66A
Uplink LTE CA
CA 7C
CA 41C

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 C)3)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 respective component carrier.



DL CA Power Measurement Setup

c) Inter-band carrier aggregation requirements for uplink.

For Inter band Uplink CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter band Uplink CA component band as the inter-band Uplink CA SAR.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B4		B5	
		Ant13	Ant31	Ant13	Ant31
B5	Ant13		√		
	Ant31	√			
B7	Ant13				√
	Ant31			√	
	Ant11	√	√		

7.2.5 NR Band Test Configuration

1. NR Band n2/n5/n7/n26/n38/n41/n66/n77/n78 support SA mode and n2/n5/n7/n26/n38/n41/n66/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2			LTE Band 4			LTE Band 5		LTE Band 7		
		Ant11	Ant31	Ant13	Ant31	Ant13	ANT11	Ant31	Ant13	Ant11	Ant31	Ant13
n2	Ant13				√						√	
	Ant11				√						√	
n5	Ant13									√		
	Ant31									√		
n7	Ant13		√		√							
	Ant11		√		√							
n26	Ant13									√		
	Ant31									√		
n66	Ant13		√					√			√	
	Ant11		√					√			√	
n38	Ant13				√							
	Ant11				√							
n41	Ant13				√							
	Ant11				√							
n77	Ant11										√	√
	Ant23										√	√
n78	Ant11		√	√	√	√		√	√		√	√
	Ant23		√	√	√	√		√	√		√	√

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Band/Antenna		LTE Band 66			LTE Band 38			LTE Band 41		
		Ant11	Ant31	Ant13	Ant11	Ant31	Ant13	Ant11	Ant31	Ant13
n2	Ant13		√							
	Ant11		√							
n5	Ant13									
	Ant31									
n7	Ant13		√							
	Ant11		√							
n26	Ant13									
	Ant31									
n66	Ant13									
	Ant11									
n38	Ant13		√							
	Ant11		√							
n41	Ant13		√							
	Ant11		√							
n77	Ant11									
	Ant23									
n78	Ant11		√	√		√	√		√	√
	Ant23		√	√		√	√		√	√



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

Band		n2	n5	n7	n26	n38	n41	n66
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes
		NSA	Yes	Yes	Yes	Yes	Yes	Yes
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
		Max Duty Cycle		100%	100%	100%	100%	100%

Band	SCS	Bandwidth													
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	35MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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



4. MPR

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

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

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

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

- 1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)
 - a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.
 - b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

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

8. For n77/78 Ant21/101 support SRS, the max duty cycle is 8.5%.



7.2.6 Duty Cycle technology

Duty Cycle technology is applied to NR TDD and LTE TDD frequency band, and the conducted power under specific Duty Cycle is compensated according to the case of different Duty Cycle stages.

In this report for LTE TDD band config1 to 6 mode average power is not more than Config 0 mode average power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of Config 0 mode will be tested.

LTE TDD duty cycle											
Band	Ant.	Power Level	P _{max} (dBm)	UL duty cycle	Max UL duty cycle	Max UL duty cycle factor	Power Boost (dB)	P _{cmx} (dBm)	P _{limt} (dBm)	P _{cmx} Frame-Averaged(dBm)	SAR test
LTE Band38	Ant13	DSI5	23.3	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.30	18.80	13.71	No
			23.3	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	23.30	18.80	16.52	No
			23.3	21% $<$ K3 $\leq$ 31%	31.00%	-5.09	3	21.80	18.80	16.71	No
			23.3	31% $<$ K4 $\leq$ 41%	41.00%	-3.87	1.8	20.60	18.80	16.73	No
			23.3	41% $<$ K5 $\leq$ 51%	51.00%	-2.92	0.9	19.70	18.80	16.78	No
			23.3	51% $<$ K6 $\leq$ 61%	61.00%	-2.15	0	18.80	18.80	16.65	No
			23.3	61% $<$ K6 $\leq$ 63.3%	63.33%	-1.98	0	18.80	18.80	16.82	Yes
		DSI6	23.3	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.30	21.8	13.71	No
			23.3	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	23.30	21.8	16.52	No
			23.3	21% $<$ K3 $\leq$ 31%	31.00%	-5.09	3	23.30	21.8	18.21	No
			23.3	31% $<$ K4 $\leq$ 41%	41.00%	-3.87	1.8	23.30	21.8	19.43	No
			23.3	41% $<$ K5 $\leq$ 51%	51.00%	-2.92	0.9	22.70	21.8	19.78	No
			23.3	51% $<$ K6 $\leq$ 61%	61.00%	-2.15	0	21.80	21.8	19.65	No
			23.3	61% $<$ K6 $\leq$ 63.3%	63.33%	-1.98	0	21.80	21.8	19.82	Yes
		DSI7	23.3	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.30	17.8	13.71	No
			23.3	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	22.60	17.8	15.82	No
			23.3	21% $<$ K3 $\leq$ 31%	31.00%	-5.09	3	20.80	17.8	15.71	No
			23.3	31% $<$ K4 $\leq$ 41%	41.00%	-3.87	1.8	19.60	17.8	15.73	No
			23.3	41% $<$ K5 $\leq$ 51%	51.00%	-2.92	0.9	18.70	17.8	15.78	No
			23.3	51% $<$ K6 $\leq$ 61%	61.00%	-2.15	0	17.80	17.8	15.65	No
			23.3	61% $<$ K6 $\leq$ 63.3%	63.33%	-1.98	0	17.80	17.8	15.82	Yes
		DSI8	23.3	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.30	19.8	13.71	No
			23.3	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	23.30	19.8	16.52	No
			23.3	21% $<$ K3 $\leq$ 31%	31.00%	-5.09	3	22.80	19.8	17.71	No
			23.3	31% $<$ K4 $\leq$ 41%	41.00%	-3.87	1.8	21.60	19.8	17.73	No
			23.3	41% $<$ K5 $\leq$ 51%	51.00%	-2.92	0.9	20.70	19.8	17.78	No
			23.3	51% $<$ K6 $\leq$ 61%	61.00%	-2.15	0	19.80	19.8	17.65	No
			23.3	61% $<$ K6 $\leq$ 63.3%	63.33%	-1.98	0	19.80	19.8	17.82	Yes
LTE Band38	Ant31	DSI5/6/7	23	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.00	23	13.41	No
			23	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	23.00	23	16.22	No
			23	21% $<$ K3 $\leq$ 31%	31.00%	-5.09	3	23.00	23	17.91	No
			23	31% $<$ K4 $\leq$ 41%	41.00%	-3.87	1.8	23.00	23	19.13	No
			23	41% $<$ K5 $\leq$ 51%	51.00%	-2.92	0.9	23.00	23	20.08	No
			23	51% $<$ K6 $\leq$ 61%	61.00%	-2.15	0	23.00	23	20.85	No
			23	61% $<$ K6 $\leq$ 63.3%	63.33%	-1.98	0	23.00	23	21.02	Yes
		DSI8	23	0% $\leq$ K1 $\leq$ 11%	11.00%	-9.59	7.5	23.00	21	13.41	No
			23	11% $<$ K2 $\leq$ 21%	21.00%	-6.78	4.8	23.00	21	16.22	No



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			23	21%< K3≤ 31%	31.00%	-5.09	3	23.00	21	17.91	No
			23	31%< K4≤41%	41.00%	-3.87	1.8	22.80	21	18.93	No
			23	41%< K5≤51%	51.00%	-2.92	0.9	21.90	21	18.98	No
			23	51%< K6≤61%	61.00%	-2.15	0	21.00	21	18.85	No
			23	61%< K6≤63.3%	63.33%	-1.98	0	21.00	21	19.02	Yes
LTE Band38	Ant11	DSI5	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	20.4	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	20.4	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	20.4	17.31	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	22.20	20.4	18.33	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	21.30	20.4	18.38	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	20.40	20.4	18.25	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	20.40	20.4	18.42	Yes
		DSI6	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	22.4	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	22.4	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	22.4	17.31	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	22.40	22.4	18.53	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	22.40	22.4	19.48	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	22.40	22.4	20.25	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	22.40	22.4	20.42	Yes
		DSI7	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	18.9	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	18.9	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	21.90	18.9	16.81	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	20.70	18.9	16.83	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	19.80	18.9	16.88	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	18.90	18.9	16.75	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	18.90	18.9	16.92	Yes
		DSI8	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	19.9	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	19.9	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	19.9	17.31	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	21.70	19.9	17.83	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	20.80	19.9	17.88	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	19.90	19.9	17.75	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	19.90	19.9	17.92	Yes
LTE Band41	Ant13	DSI5	23.3	0%≤ K1≤11%	11.00%	-9.59	7.5	23.30	18.8	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	4.8	23.30	18.8	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	3	21.80	18.8	16.71	No
			23.3	31%< K4≤41%	41.00%	-3.87	1.8	20.60	18.8	16.73	No
			23.3	41%< K5≤51%	51.00%	-2.92	0.9	19.70	18.8	16.78	No
			23.3	51%< K6≤61%	61.00%	-2.15	0	18.80	18.8	16.65	No
			23.3	61%< K6≤63.3%	63.33%	-1.98	0	18.80	18.8	16.82	Yes
		DSI6	23.3	0%≤ K1≤11%	11.00%	-9.59	7.5	23.30	21.8	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	4.8	23.30	21.8	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	3	23.30	21.8	18.21	No
			23.3	31%< K4≤41%	41.00%	-3.87	1.8	23.30	21.8	19.43	No
			23.3	41%< K5≤51%	51.00%	-2.92	0.9	22.70	21.8	19.78	No
			23.3	51%< K6≤61%	61.00%	-2.15	0	21.80	21.8	19.65	No
			23.3	61%< K6≤63.3%	63.33%	-1.98	0	21.80	21.8	19.82	Yes
		DSI7	23.3	0%≤ K1≤11%	11.00%	-9.59	7.5	23.30	17.8	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	4.8	22.60	17.8	15.82	No



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LTE Band41	Ant31	DSI8	23.3	21%< K3≤ 31%	31.00%	-5.09	3	20.80	17.8	15.71	No
			23.3	31%< K4≤41%	41.00%	-3.87	1.8	19.60	17.8	15.73	No
			23.3	41%< K5≤51%	51.00%	-2.92	0.9	18.70	17.8	15.78	No
			23.3	51%< K6≤61%	61.00%	-2.15	0	17.80	17.8	15.65	No
			23.3	61%< K6≤63.3%	63.33%	-1.98	0	17.80	17.8	15.82	Yes
			23.3	0%≤ K1≤11%	11.00%	-9.59	7.5	23.30	19.8	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	4.8	23.30	19.8	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	3	22.80	19.8	17.71	No
			23.3	31%< K4≤41%	41.00%	-3.87	1.8	21.60	19.8	17.73	No
			23.3	41%< K5≤51%	51.00%	-2.92	0.9	20.70	19.8	17.78	No
			23.3	51%< K6≤61%	61.00%	-2.15	0	19.80	19.8	17.65	No
			23.3	61%< K6≤63.3%	63.33%	-1.98	0	19.80	19.8	17.82	Yes
			23	0%≤ K1≤11%	11.00%	-9.59	7.5	23.00	23	13.41	No
			23	11%< K2≤21%	21.00%	-6.78	4.8	23.00	23	16.22	No
			23	21%< K3≤ 31%	31.00%	-5.09	3	23.00	23	17.91	No
			23	31%< K4≤41%	41.00%	-3.87	1.8	23.00	23	19.13	No
LTE Band41	Ant11	DSI5/6/7	23	41%< K5≤51%	51.00%	-2.92	0.9	23.00	23	20.08	No
			23	51%< K6≤61%	61.00%	-2.15	0	23.00	23	20.85	No
			23	61%< K6≤63.3%	63.33%	-1.98	0	23.00	23	21.02	Yes
		DSI8	23	0%≤ K1≤11%	11.00%	-9.59	7.5	23.00	21	13.41	No
			23	11%< K2≤21%	21.00%	-6.78	4.8	23.00	21	16.22	No
			23	21%< K3≤ 31%	31.00%	-5.09	3	23.00	21	17.91	No
			23	31%< K4≤41%	41.00%	-3.87	1.8	22.80	21	18.93	No
			23	41%< K5≤51%	51.00%	-2.92	0.9	21.90	21	18.98	No
			23	51%< K6≤61%	61.00%	-2.15	0	21.00	21	18.85	No
			23	61%< K6≤63.3%	63.33%	-1.98	0	21.00	21	19.02	Yes
		DSI5	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	20.4	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	20.4	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	20.4	17.31	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	22.20	20.4	18.33	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	21.30	20.4	18.38	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	20.40	20.4	18.25	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	20.40	20.4	18.42	Yes
		DSI6	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	22.4	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	22.4	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	22.4	17.31	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	22.40	22.4	18.53	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	22.40	22.4	19.48	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	22.40	22.4	20.25	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	22.40	22.4	20.42	Yes
		DSI7	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	18.9	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	18.9	15.62	No
			22.4	21%< K3≤ 31%	31.00%	-5.09	3	21.90	18.9	16.81	No
			22.4	31%< K4≤41%	41.00%	-3.87	1.8	20.70	18.9	16.83	No
			22.4	41%< K5≤51%	51.00%	-2.92	0.9	19.80	18.9	16.88	No
			22.4	51%< K6≤61%	61.00%	-2.15	0	18.90	18.9	16.75	No
			22.4	61%< K6≤63.3%	63.33%	-1.98	0	18.90	18.9	16.92	Yes
		DSI8	22.4	0%≤ K1≤11%	11.00%	-9.59	7.5	22.40	19.9	12.81	No
			22.4	11%< K2≤21%	21.00%	-6.78	4.8	22.40	19.9	15.62	No



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		22.4	21%< K3≤ 31%	31.00%	-5.09	3	22.40	19.9	17.31	No
		22.4	31%< K4≤41%	41.00%	-3.87	1.8	21.70	19.9	17.83	No
		22.4	41%< K5≤51%	51.00%	-2.92	0.9	20.80	19.9	17.88	No
		22.4	51%< K6≤61%	61.00%	-2.15	0	19.90	19.9	17.75	No
		22.4	61%< K6≤63.3%	63.33%	-1.98	0	19.90	19.9	17.92	Yes

In this report for NR TDD band the max tune-up power under each duty cycle is uniformly converted into the signaling average power under 100% duty cycle. The signaling average power is not more than 100% Duty Cycle FTM mode power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of 100% Duty Cycle FTM mode will be tested.

NR TDD duty cycle											
Band	Ant.	Power Level	Pmax (dBm)	UL duty cycle	Max UL duty cycle	Max UL duty cycle factor	Power Boost (dB)	P _{cmx} (dBm)	P _{limt} (dBm)	P _{cmx} Frame-Averaged(dBm)	SAR test
NR N38	Ant11	DSI5/6	23.3	0%≤K1≤11%	11.00%	-9.59	9.59	23.30	19.3	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	6.78	23.30	19.3	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	23.30	19.3	18.21	No
			23.3	31%< K4≤41%	41.00%	-3.87	3.87	23.17	19.3	19.30	No
			23.3	41%< K5≤51%	51.00%	-2.92	2.92	22.22	19.3	19.30	No
			23.3	51%< K6≤61%	61.00%	-2.15	2.15	21.45	19.3	19.30	No
			23.3	61%< K7≤71%	71.00%	-1.49	1.49	20.79	19.3	19.30	No
			23.3	71%< K8≤81%	81.00%	-0.92	0.92	20.22	19.3	19.30	No
			23.3	81%<K9≤91%	91.00%	-0.41	0.41	19.71	19.3	19.30	No
			23.3	91%<K10≤100%	100.00%	0	0.00	19.30	19.3	19.30	Yes
		DSI7	23.3	0%≤ K1≤11%	11.00%	-9.59	9.59	23.30	17.3	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	6.78	23.30	17.3	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	22.39	17.3	17.30	No
			23.3	31%< K4≤41%	41.00%	-3.87	3.87	21.17	17.3	17.30	No
			23.3	41%< K5≤51%	51.00%	-2.92	2.92	20.22	17.3	17.30	No
			23.3	51%< K6≤61%	61.00%	-2.15	2.15	19.45	17.3	17.30	No
			23.3	61%< K7≤71%	71.00%	-1.49	1.49	18.79	17.3	17.30	No
			23.3	71%< K8≤81%	81.00%	-0.92	0.92	18.22	17.3	17.30	No
			23.3	81%<K9≤91%	91.00%	-0.41	0.41	17.71	17.3	17.30	No
			23.3	91%<K10≤100%	100.00%	0	0.00	17.30	17.3	17.30	Yes
		DSI8	23.3	0%≤ K1≤11%	11.00%	-9.59	9.59	23.30	16.8	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	6.78	23.30	16.8	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	21.89	16.8	16.80	No
			23.3	31%< K4≤41%	41.00%	-3.87	3.87	20.67	16.8	16.80	No
			23.3	41%< K5≤51%	51.00%	-2.92	2.92	19.72	16.8	16.80	No
			23.3	51%< K6≤61%	61.00%	-2.15	2.15	18.95	16.8	16.80	No
			23.3	61%< K7≤71%	71.00%	-1.49	1.49	18.29	16.8	16.80	No
			23.3	71%< K8≤81%	81.00%	-0.92	0.92	17.72	16.8	16.80	No
			23.3	81%<K9≤91%	91.00%	-0.41	0.41	17.21	16.8	16.80	No
			23.3	91%<K10≤100%	100.00%	0	0.00	16.80	16.8	16.80	Yes
NR N38	Ant13	DSI5	23.3	0%≤ K1≤11%	11.00%	-9.59	9.59	23.30	16.3	13.71	No
			23.3	11%< K2≤21%	21.00%	-6.78	6.78	23.08	16.3	16.30	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	21.39	16.3	16.30	No
			23.3	31%< K4≤41%	41.00%	-3.87	3.87	20.17	16.3	16.30	No



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NR N38	Ant31		23.3	41%< K5 ≤51%	51.00%	-2.92	2.92	19.22	16.3	16.30	No
			23.3	51%< K6 ≤61%	61.00%	-2.15	2.15	18.45	16.3	16.30	No
			23.3	61%< K7 ≤71%	71.00%	-1.49	1.49	17.79	16.3	16.30	No
			23.3	71%< K8 ≤81%	81.00%	-0.92	0.92	17.22	16.3	16.30	No
			23.3	81% <K9 ≤91%	91.00%	-0.41	0.41	16.71	16.3	16.30	No
			23.3	91% <K10≤100%	100.00%	0	0.00	16.30	16.3	16.30	Yes
		DSI6	23.3	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.30	21.3	13.71	No
			23.3	11%< K2 ≤21%	21.00%	-6.78	6.78	23.30	21.3	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	23.30	21.3	18.21	No
			23.3	31%< K4 ≤41%	41.00%	-3.87	3.87	23.30	21.3	19.43	No
			23.3	41%< K5 ≤51%	51.00%	-2.92	2.92	23.30	21.3	20.38	No
			23.3	51%< K6 ≤61%	61.00%	-2.15	2.15	23.30	21.3	21.15	No
			23.3	61%< K7 ≤71%	71.00%	-1.49	1.49	22.79	21.3	21.30	No
			23.3	71%< K8 ≤81%	81.00%	-0.92	0.92	22.22	21.3	21.30	No
			23.3	81% <K9 ≤91%	91.00%	-0.41	0.41	21.71	21.3	21.30	No
			23.3	91% <K10≤100%	100.00%	0	0.00	21.30	21.3	21.30	Yes
		DSI7	23.3	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.30	14.3	13.71	No
			23.3	11%< K2 ≤21%	21.00%	-6.78	6.78	21.08	14.3	14.30	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	19.39	14.3	14.30	No
			23.3	31%< K4 ≤41%	41.00%	-3.87	3.87	18.17	14.3	14.30	No
			23.3	41%< K5 ≤51%	51.00%	-2.92	2.92	17.22	14.3	14.30	No
			23.3	51%< K6 ≤61%	61.00%	-2.15	2.15	16.45	14.3	14.30	No
			23.3	61%< K7 ≤71%	71.00%	-1.49	1.49	15.79	14.3	14.30	No
			23.3	71%< K8 ≤81%	81.00%	-0.92	0.92	15.22	14.3	14.30	No
			23.3	81% <K9 ≤91%	91.00%	-0.41	0.41	14.71	14.3	14.30	No
			23.3	91% <K10≤100%	100.00%	0	0.00	14.30	14.3	14.30	Yes
		DSI8	23.3	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.30	17.8	13.71	No
			23.3	11%< K2 ≤21%	21.00%	-6.78	6.78	23.30	17.8	16.52	No
			23.3	21%< K3≤ 31%	31.00%	-5.09	5.09	22.89	17.8	17.80	No
			23.3	31%< K4 ≤41%	41.00%	-3.87	3.87	21.67	17.8	17.80	No
			23.3	41%< K5 ≤51%	51.00%	-2.92	2.92	20.72	17.8	17.80	No
			23.3	51%< K6 ≤61%	61.00%	-2.15	2.15	19.95	17.8	17.80	No
			23.3	61%< K7 ≤71%	71.00%	-1.49	1.49	19.29	17.8	17.80	No
			23.3	71%< K8 ≤81%	81.00%	-0.92	0.92	18.72	17.8	17.80	No
			23.3	81% <K9 ≤91%	91.00%	-0.41	0.41	18.21	17.8	17.80	No
			23.3	91% <K10≤100%	100.00%	0	0.00	17.80	17.8	17.80	Yes
NR N38	Ant31	DSI5/7	23.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.50	23.5	13.91	No
			23.5	11%< K2 ≤21%	21.00%	-6.78	6.78	23.50	23.5	16.72	No
			23.5	21%< K3≤ 31%	31.00%	-5.09	5.09	23.50	23.5	18.41	No
			23.5	31%< K4 ≤41%	41.00%	-3.87	3.87	23.50	23.5	19.63	No
			23.5	41%< K5 ≤51%	51.00%	-2.92	2.92	23.50	23.5	20.58	No
			23.5	51%< K6 ≤61%	61.00%	-2.15	2.15	23.50	23.5	21.35	No
			23.5	61%< K7 ≤71%	71.00%	-1.49	1.49	23.50	23.5	22.01	No
			23.5	71%< K8 ≤81%	81.00%	-0.92	0.92	23.50	23.5	22.58	No
			23.5	81% <K9 ≤91%	91.00%	-0.41	0.41	23.50	23.5	23.09	No
			23.5	91% <K10≤100%	100.00%	0	0.00	23.50	23.5	23.50	Yes
		DSI6	23.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.50	22.5	13.91	No
			23.5	11%< K2 ≤21%	21.00%	-6.78	6.78	23.50	22.5	16.72	No
			23.5	21%< K3≤ 31%	31.00%	-5.09	5.09	23.50	22.5	18.41	No



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			23.5	31%< K4 ≤41%	41.00%	-3.87	3.87	23.50	22.5	19.63	No
			23.5	41%< K5 ≤51%	51.00%	-2.92	2.92	23.50	22.5	20.58	No
			23.5	51%< K6 ≤61%	61.00%	-2.15	2.15	23.50	22.5	21.35	No
			23.5	61%< K7 ≤71%	71.00%	-1.49	1.49	23.50	22.5	22.01	No
			23.5	71%< K8 ≤81%	81.00%	-0.92	0.92	23.42	22.5	22.50	No
			23.5	81%< K9 ≤91%	91.00%	-0.41	0.41	22.91	22.5	22.50	No
			23.5	91%< K10 ≤100%	100.00%	0	0.00	22.50	22.5	22.50	Yes
		DSI8	23.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.50	20.5	13.91	No
			23.5	11%< K2 ≤21%	21.00%	-6.78	6.78	23.50	20.5	16.72	No
			23.5	21%< K3 ≤31%	31.00%	-5.09	5.09	23.50	20.5	18.41	No
			23.5	31%< K4 ≤41%	41.00%	-3.87	3.87	23.50	20.5	19.63	No
			23.5	41%< K5 ≤51%	51.00%	-2.92	2.92	23.42	20.5	20.50	No
			23.5	51%< K6 ≤61%	61.00%	-2.15	2.15	22.65	20.5	20.50	No
			23.5	61%< K7 ≤71%	71.00%	-1.49	1.49	21.99	20.5	20.50	No
			23.5	71%< K8 ≤81%	81.00%	-0.92	0.92	21.42	20.5	20.50	No
			23.5	81%< K9 ≤91%	91.00%	-0.41	0.41	20.91	20.5	20.50	No
			23.5	91%< K10 ≤100%	100.00%	0	0.00	20.50	20.5	20.50	Yes
NR N41 PC2	Ant11	DSI5	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	18	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	24.78	18	18.00	No
			25	21%< K3 ≤31%	31.00%	-5.09	5.09	23.09	18	18.00	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	21.87	18	18.00	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	20.92	18	18.00	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	20.15	18	18.00	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	19.49	18	18.00	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	18.92	18	18.00	No
			25	81%< K9 ≤91%	91.00%	-0.41	0.41	18.41	18	18.00	No
			25	91%< K10 ≤100%	100.00%	0	0.00	18.00	18	18.00	Yes
		DSI6	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	19.5	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	25.00	19.5	18.22	No
			25	21%< K3 ≤31%	31.00%	-5.09	5.09	24.59	19.5	19.50	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	23.37	19.5	19.50	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	22.42	19.5	19.50	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	21.65	19.5	19.50	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	20.99	19.5	19.50	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	20.42	19.5	19.50	No
			25	81%< K9 ≤91%	91.00%	-0.41	0.41	19.91	19.5	19.50	No
			25	91%< K10 ≤100%	100.00%	0	0.00	19.50	19.5	19.50	Yes
		DSI7/8	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	17	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	23.78	17	17.00	No
			25	21%< K3 ≤31%	31.00%	-5.09	5.09	22.09	17	17.00	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	20.87	17	17.00	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	19.92	17	17.00	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	19.15	17	17.00	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	18.49	17	17.00	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	17.92	17	17.00	No
			25	81%< K9 ≤91%	91.00%	-0.41	0.41	17.41	17	17.00	No
			25	91%< K10 ≤100%	100.00%	0	0.00	17.00	17	17.00	Yes
NR N41 PC2	Ant13	DSI5	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	17	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	23.78	17	17.00	No



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NR N41 PC2	Ant31		25	21%< K3≤ 31%	31.00%	-5.09	5.09	22.09	17	17.00	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	20.87	17	17.00	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	19.92	17	17.00	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	19.15	17	17.00	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	18.49	17	17.00	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	17.92	17	17.00	No
			25	81% <K9 ≤91%	91.00%	-0.41	0.41	17.41	17	17.00	No
			25	91% <K10≤100%	100.00%	0	0.00	17.00	17	17.00	Yes
		DSI6	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	21	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	25.00	21	18.22	No
			25	21%< K3≤ 31%	31.00%	-5.09	5.09	25.00	21	19.91	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	24.87	21	21.00	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	23.92	21	21.00	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	23.15	21	21.00	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	22.49	21	21.00	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	21.92	21	21.00	No
			25	81% <K9 ≤91%	91.00%	-0.41	0.41	21.41	21	21.00	No
			25	91% <K10≤100%	100.00%	0	0.00	21.00	21	21.00	Yes
		DSI7	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	24.59	15	15.00	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	21.78	15	15.00	No
			25	21%< K3≤ 31%	31.00%	-5.09	5.09	20.09	15	15.00	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	18.87	15	15.00	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	17.92	15	15.00	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	17.15	15	15.00	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	16.49	15	15.00	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	15.92	15	15.00	No
			25	81% <K9 ≤91%	91.00%	-0.41	0.41	15.41	15	15.00	No
			25	91% <K10≤100%	100.00%	0	0.00	15.00	15	15.00	Yes
		DSI8	25	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.00	17.5	15.41	No
			25	11%< K2 ≤21%	21.00%	-6.78	6.78	24.28	17.5	17.50	No
			25	21%< K3≤ 31%	31.00%	-5.09	5.09	22.59	17.5	17.50	No
			25	31%< K4 ≤41%	41.00%	-3.87	3.87	21.37	17.5	17.50	No
			25	41%< K5 ≤51%	51.00%	-2.92	2.92	20.42	17.5	17.50	No
			25	51%< K6 ≤61%	61.00%	-2.15	2.15	19.65	17.5	17.50	No
			25	61%< K7 ≤71%	71.00%	-1.49	1.49	18.99	17.5	17.50	No
			25	71%< K8 ≤81%	81.00%	-0.92	0.92	18.42	17.5	17.50	No
			25	81% <K9 ≤91%	91.00%	-0.41	0.41	17.91	17.5	17.50	No
			25	91% <K10≤100%	100.00%	0	0.00	17.50	17.5	17.50	Yes
		DSI5/7	24.7	0%≤ K1 ≤11%	11.00%	-9.59	9.59	24.70	24.7	15.11	No
			24.7	11%< K2 ≤21%	21.00%	-6.78	6.78	24.70	24.7	17.92	No
			24.7	21%< K3≤ 31%	31.00%	-5.09	5.09	24.70	24.7	19.61	No
			24.7	31%< K4 ≤41%	41.00%	-3.87	3.87	24.70	24.7	20.83	No
			24.7	41%< K5 ≤51%	51.00%	-2.92	2.92	24.70	24.7	21.78	No
			24.7	51%< K6 ≤61%	61.00%	-2.15	2.15	24.70	24.7	22.55	No
			24.7	61%< K7 ≤71%	71.00%	-1.49	1.49	24.70	24.7	23.21	No
			24.7	71%< K8 ≤81%	81.00%	-0.92	0.92	24.70	24.7	23.78	No
			24.7	81% <K9 ≤91%	91.00%	-0.41	0.41	24.70	24.7	24.29	No
			24.7	91% <K10≤100%	100.00%	0	0.00	24.70	24.7	24.70	Yes
		DSI6	24.7	0%≤ K1 ≤11%	11.00%	-9.59	9.59	24.70	21.7	15.11	No



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NR N77	Ant11	DSI8	24.7	11%< K2 ≤21%	21.00%	-6.78	6.78	24.70	21.7	17.92	No
			24.7	21%< K3 ≤ 31%	31.00%	-5.09	5.09	24.70	21.7	19.61	No
			24.7	31%< K4 ≤41%	41.00%	-3.87	3.87	24.70	21.7	20.83	No
			24.7	41%< K5 ≤51%	51.00%	-2.92	2.92	24.62	21.7	21.70	No
			24.7	51%< K6 ≤61%	61.00%	-2.15	2.15	23.85	21.7	21.70	No
			24.7	61%< K7 ≤71%	71.00%	-1.49	1.49	23.19	21.7	21.70	No
			24.7	71%< K8 ≤81%	81.00%	-0.92	0.92	22.62	21.7	21.70	No
			24.7	81% <K9 ≤91%	91.00%	-0.41	0.41	22.11	21.7	21.70	No
			24.7	91% <K10≤100%	100.00%	0	0.00	21.70	21.7	21.70	Yes
		DSI5	23	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.00	15	13.41	No
			23	11%< K2 ≤21%	21.00%	-6.78	6.78	21.78	15	15.00	No
			23	21%< K3 ≤ 31%	31.00%	-5.09	5.09	20.09	15	15.00	No
			23	31%< K4 ≤41%	41.00%	-3.87	3.87	18.87	15	15.00	No
			23	41%< K5 ≤51%	51.00%	-2.92	2.92	17.92	15	15.00	No
			23	51%< K6 ≤61%	61.00%	-2.15	2.15	17.15	15	15.00	No
			23	61%< K7 ≤71%	71.00%	-1.49	1.49	16.49	15	15.00	No
			23	71%< K8 ≤81%	81.00%	-0.92	0.92	15.92	15	15.00	No
			23	81% <K9 ≤91%	91.00%	-0.41	0.41	15.41	15	15.00	No
			23	91% <K10≤100%	100.00%	0	0.00	15.00	15	15.00	Yes
		DSI6	23	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.00	17.5	13.41	No
			23	11%< K2 ≤21%	21.00%	-6.78	6.78	23.00	17.5	16.22	No
			23	21%< K3 ≤ 31%	31.00%	-5.09	5.09	22.59	17.5	17.50	No
			23	31%< K4 ≤41%	41.00%	-3.87	3.87	21.37	17.5	17.50	No
			23	41%< K5 ≤51%	51.00%	-2.92	2.92	20.42	17.5	17.50	No
			23	51%< K6 ≤61%	61.00%	-2.15	2.15	19.65	17.5	17.50	No
			23	61%< K7 ≤71%	71.00%	-1.49	1.49	18.99	17.5	17.50	No
			23	71%< K8 ≤81%	81.00%	-0.92	0.92	18.42	17.5	17.50	No
			23	81% <K9 ≤91%	91.00%	-0.41	0.41	17.91	17.5	17.50	No
			23	91% <K10≤100%	100.00%	0	0.00	17.50	17.5	17.50	Yes
		DSI7	23	0%≤ K1 ≤11%	11.00%	-9.59	9.59	23.00	14	13.41	No
			23	11%< K2 ≤21%	21.00%	-6.78	6.78	20.78	14	14.00	No
			23	21%< K3 ≤ 31%	31.00%	-5.09	5.09	19.09	14	14.00	No
			23	31%< K4 ≤41%	41.00%	-3.87	3.87	17.87	14	14.00	No
			23	41%< K5 ≤51%	51.00%	-2.92	2.92	16.92	14	14.00	No
			23	51%< K6 ≤61%	61.00%	-2.15	2.15	16.15	14	14.00	No
			23	61%< K7 ≤71%	71.00%	-1.49	1.49	15.49	14	14.00	No
			23	71%< K8 ≤81%	81.00%	-0.92	0.92	14.92	14	14.00	No
			23	81% <K9 ≤91%	91.00%	-0.41	0.41	14.41	14	14.00	No
			23	91% <K10≤100%	100.00%	0	0.00	14.00	14	14.00	Yes



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		DSI8	23	$0\% \leq K1 \leq 11\%$	11.00%	-9.59	9.59	23.00	14.5	13.41	No
			23	$11\% < K2 \leq 21\%$	21.00%	-6.78	6.78	21.28	14.5	14.50	No
			23	$21\% < K3 \leq 31\%$	31.00%	-5.09	5.09	19.59	14.5	14.50	No
			23	$31\% < K4 \leq 41\%$	41.00%	-3.87	3.87	18.37	14.5	14.50	No
			23	$41\% < K5 \leq 51\%$	51.00%	-2.92	2.92	17.42	14.5	14.50	No
			23	$51\% < K6 \leq 61\%$	61.00%	-2.15	2.15	16.65	14.5	14.50	No
			23	$61\% < K7 \leq 71\%$	71.00%	-1.49	1.49	15.99	14.5	14.50	No
			23	$71\% < K8 \leq 81\%$	81.00%	-0.92	0.92	15.42	14.5	14.50	No
			23	$81\% < K9 \leq 91\%$	91.00%	-0.41	0.41	14.91	14.5	14.50	No
			23	$91\% < K10 \leq 100\%$	100.00%	0	0.00	14.50	14.5	14.50	Yes
NR N77	Ant23	DSI5/8	19	$0\% \leq K1 \leq 11\%$	11.00%	-9.59	9.59	19.00	16	9.41	No
			19	$11\% < K2 \leq 21\%$	21.00%	-6.78	6.78	19.00	16	12.22	No
			19	$21\% < K3 \leq 31\%$	31.00%	-5.09	5.09	19.00	16	13.91	No
			19	$31\% < K4 \leq 41\%$	41.00%	-3.87	3.87	19.00	16	15.13	No
			19	$41\% < K5 \leq 51\%$	51.00%	-2.92	2.92	18.92	16	16.00	No
			19	$51\% < K6 \leq 61\%$	61.00%	-2.15	2.15	18.15	16	16.00	No
			19	$61\% < K7 \leq 71\%$	71.00%	-1.49	1.49	17.49	16	16.00	No
			19	$71\% < K8 \leq 81\%$	81.00%	-0.92	0.92	16.92	16	16.00	No
			19	$81\% < K9 \leq 91\%$	91.00%	-0.41	0.41	16.41	16	16.00	No
			19	$91\% < K10 \leq 100\%$	100.00%	0	0.00	16.00	16	16.00	Yes
		DSI6	19	$0\% \leq K1 \leq 11\%$	11.00%	-9.59	9.59	19.00	18.5	9.41	No
			19	$11\% < K2 \leq 21\%$	21.00%	-6.78	6.78	19.00	18.5	12.22	No
			19	$21\% < K3 \leq 31\%$	31.00%	-5.09	5.09	19.00	18.5	13.91	No
			19	$31\% < K4 \leq 41\%$	41.00%	-3.87	3.87	19.00	18.5	15.13	No
			19	$41\% < K5 \leq 51\%$	51.00%	-2.92	2.92	19.00	18.5	16.08	No
			19	$51\% < K6 \leq 61\%$	61.00%	-2.15	2.15	19.00	18.5	16.85	No
			19	$61\% < K7 \leq 71\%$	71.00%	-1.49	1.49	19.00	18.5	17.51	No
			19	$71\% < K8 \leq 81\%$	81.00%	-0.92	0.92	19.00	18.5	18.08	No
			19	$81\% < K9 \leq 91\%$	91.00%	-0.41	0.41	18.91	18.5	18.50	No
			19	$91\% < K10 \leq 100\%$	100.00%	0	0.00	18.50	18.5	18.50	Yes
		DSI7	19	$0\% \leq K1 \leq 11\%$	11.00%	-9.59	9.59	19.00	15	9.41	No
			19	$11\% < K2 \leq 21\%$	21.00%	-6.78	6.78	19.00	15	12.22	No
			19	$21\% < K3 \leq 31\%$	31.00%	-5.09	5.09	19.00	15	13.91	No
			19	$31\% < K4 \leq 41\%$	41.00%	-3.87	3.87	18.87	15	15.00	No
			19	$41\% < K5 \leq 51\%$	51.00%	-2.92	2.92	17.92	15	15.00	No
			19	$51\% < K6 \leq 61\%$	61.00%	-2.15	2.15	17.15	15	15.00	No
			19	$61\% < K7 \leq 71\%$	71.00%	-1.49	1.49	16.49	15	15.00	No
			19	$71\% < K8 \leq 81\%$	81.00%	-0.92	0.92	15.92	15	15.00	No
			19	$81\% < K9 \leq 91\%$	91.00%	-0.41	0.41	15.41	15	15.00	No
			19	$91\% < K10 \leq 100\%$	100.00%	0	0.00	15.00	15	15.00	Yes
NR N78 PC2	Ant11	DSI5	25.5	$0\% \leq K1 \leq 11\%$	11.00%	-9.59	9.59	25.09	15.5	15.50	No
			25.5	$11\% < K2 \leq 21\%$	21.00%	-6.78	6.78	22.28	15.5	15.50	No
			25.5	$21\% < K3 \leq 31\%$	31.00%	-5.09	5.09	20.59	15.5	15.50	No
			25.5	$31\% < K4 \leq 41\%$	41.00%	-3.87	3.87	19.37	15.5	15.50	No
			25.5	$41\% < K5 \leq 51\%$	51.00%	-2.92	2.92	18.42	15.5	15.50	No
			25.5	$51\% < K6 \leq 61\%$	61.00%	-2.15	2.15	17.65	15.5	15.50	No
			25.5	$61\% < K7 \leq 71\%$	71.00%	-1.49	1.49	16.99	15.5	15.50	No
			25.5	$71\% < K8 \leq 81\%$	81.00%	-0.92	0.92	16.42	15.5	15.50	No
			25.5	$81\% < K9 \leq 91\%$	91.00%	-0.41	0.41	15.91	15.5	15.50	No
			25.5	$91\% < K10 \leq 100\%$	100.00%	0	0.00	15.00	15.5	15.50	No



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NR N78 PC2	Ant23	DSI6	25.5	91% <K10≤100%	100.00%	0	0.00	15.50	15.5	15.50	Yes
			25.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	25.50	17.5	15.91	No
			25.5	11%< K2 ≤21%	21.00%	-6.78	6.78	24.28	17.5	17.50	No
			25.5	21%< K3≤ 31%	31.00%	-5.09	5.09	22.59	17.5	17.50	No
			25.5	31%< K4 ≤41%	41.00%	-3.87	3.87	21.37	17.5	17.50	No
			25.5	41%< K5 ≤51%	51.00%	-2.92	2.92	20.42	17.5	17.50	No
			25.5	51%< K6 ≤61%	61.00%	-2.15	2.15	19.65	17.5	17.50	No
			25.5	61%< K7 ≤71%	71.00%	-1.49	1.49	18.99	17.5	17.50	No
			25.5	71%< K8 ≤81%	81.00%	-0.92	0.92	18.42	17.5	17.50	No
			25.5	81% <K9 ≤91%	91.00%	-0.41	0.41	17.91	17.5	17.50	No
		DSI7	25.5	91% <K10≤100%	100.00%	0	0.00	17.50	17.5	17.50	Yes
			25.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	24.09	14.5	14.50	No
			25.5	11%< K2 ≤21%	21.00%	-6.78	6.78	21.28	14.5	14.50	No
			25.5	21%< K3≤ 31%	31.00%	-5.09	5.09	19.59	14.5	14.50	No
			25.5	31%< K4 ≤41%	41.00%	-3.87	3.87	18.37	14.5	14.50	No
			25.5	41%< K5 ≤51%	51.00%	-2.92	2.92	17.42	14.5	14.50	No
			25.5	51%< K6 ≤61%	61.00%	-2.15	2.15	16.65	14.5	14.50	No
			25.5	61%< K7 ≤71%	71.00%	-1.49	1.49	15.99	14.5	14.50	No
			25.5	71%< K8 ≤81%	81.00%	-0.92	0.92	15.42	14.5	14.50	No
			25.5	81% <K9 ≤91%	91.00%	-0.41	0.41	14.91	14.5	14.50	No
		DSI8	25.5	91% <K10≤100%	100.00%	0	0.00	14.50	14.5	14.50	Yes
			25.5	0%≤ K1 ≤11%	11.00%	-9.59	9.59	24.59	15	15.00	No
			25.5	11%< K2 ≤21%	21.00%	-6.78	6.78	21.78	15	15.00	No
			25.5	21%< K3≤ 31%	31.00%	-5.09	5.09	20.09	15	15.00	No
			25.5	31%< K4 ≤41%	41.00%	-3.87	3.87	18.87	15	15.00	No
			25.5	41%< K5 ≤51%	51.00%	-2.92	2.92	17.92	15	15.00	No
			25.5	51%< K6 ≤61%	61.00%	-2.15	2.15	17.15	15	15.00	No
			25.5	61%< K7 ≤71%	71.00%	-1.49	1.49	16.49	15	15.00	No
			25.5	71%< K8 ≤81%	81.00%	-0.92	0.92	15.92	15	15.00	No
			25.5	81% <K9 ≤91%	91.00%	-0.41	0.41	15.41	15	15.00	No
		DSI5/8	25.5	91% <K10≤100%	100.00%	0	0.00	15.00	15	15.00	Yes
			21.8	0%≤ K1 ≤11%	11.00%	-9.59	9.59	21.80	16.3	12.21	No
			21.8	11%< K2 ≤21%	21.00%	-6.78	6.78	21.80	16.3	15.02	No
			21.8	21%< K3≤ 31%	31.00%	-5.09	5.09	21.39	16.3	16.30	No
			21.8	31%< K4 ≤41%	41.00%	-3.87	3.87	20.17	16.3	16.30	No
			21.8	41%< K5 ≤51%	51.00%	-2.92	2.92	19.22	16.3	16.30	No
			21.8	51%< K6 ≤61%	61.00%	-2.15	2.15	18.45	16.3	16.30	No
			21.8	61%< K7 ≤71%	71.00%	-1.49	1.49	17.79	16.3	16.30	No
			21.8	71%< K8 ≤81%	81.00%	-0.92	0.92	17.22	16.3	16.30	No
			21.8	81% <K9 ≤91%	91.00%	-0.41	0.41	16.71	16.3	16.30	No
		DSI6	21.8	91% <K10≤100%	100.00%	0	0.00	16.30	16.3	16.30	Yes
			21.8	0%≤ K1 ≤11%	11.00%	-9.59	9.59	21.80	18.3	12.21	No
			21.8	11%< K2 ≤21%	21.00%	-6.78	6.78	21.80	18.3	15.02	No
			21.8	21%< K3≤ 31%	31.00%	-5.09	5.09	21.80	18.3	16.71	No
			21.8	31%< K4 ≤41%	41.00%	-3.87	3.87	21.80	18.3	17.93	No
			21.8	41%< K5 ≤51%	51.00%	-2.92	2.92	21.22	18.3	18.30	No
			21.8	51%< K6 ≤61%	61.00%	-2.15	2.15	20.45	18.3	18.30	No
			21.8	61%< K7 ≤71%	71.00%	-1.49	1.49	19.79	18.3	18.30	No
			21.8	71%< K8 ≤81%	81.00%	-0.92	0.92	19.22	18.3	18.30	No



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DSI7	21.8	81% <K9 ≤91%	91.00%	-0.41	0.41	18.71	18.3	18.30	No
	21.8	91% <K10≤100%	100.00%	0	0.00	18.30	18.3	18.30	Yes
	21.8	0%≤ K1 ≤11%	11.00%	-9.59	9.59	21.80	14.8	12.21	No
	21.8	11%< K2 ≤21%	21.00%	-6.78	6.78	21.58	14.8	14.80	No
	21.8	21%< K3≤ 31%	31.00%	-5.09	5.09	19.89	14.8	14.80	No
	21.8	31%< K4 ≤41%	41.00%	-3.87	3.87	18.67	14.8	14.80	No
	21.8	41%< K5 ≤51%	51.00%	-2.92	2.92	17.72	14.8	14.80	No
	21.8	51%< K6 ≤61%	61.00%	-2.15	2.15	16.95	14.8	14.80	No
	21.8	61%< K7 ≤71%	71.00%	-1.49	1.49	16.29	14.8	14.80	No
	21.8	71%< K8 ≤81%	81.00%	-0.92	0.92	15.72	14.8	14.80	No
	21.8	81% <K9 ≤91%	91.00%	-0.41	0.41	15.21	14.8	14.80	No
	21.8	91% <K10≤100%	100.00%	0	0.00	14.80	14.8	14.80	Yes

Note:

UL duty cycle: Uplink duty cycle.

P_{cmx}: Power level for each UL duty cycle.

P_{max}: Max power level.

P_{Limit}: A pre-defined value which is used to derive the P_{cmx} to ensure time-average power level to associates with SAR compliance.

Power Boost: The theoretical value of power offset calculated according to the duty cycle K parameter, equals to $-[10 \cdot \log(\text{TX duty cycle})]$ for NR or equals to $-[10 \cdot \log(\text{TX duty cycle}/63.33\%)]$ for NR.



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8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

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

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

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

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

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band



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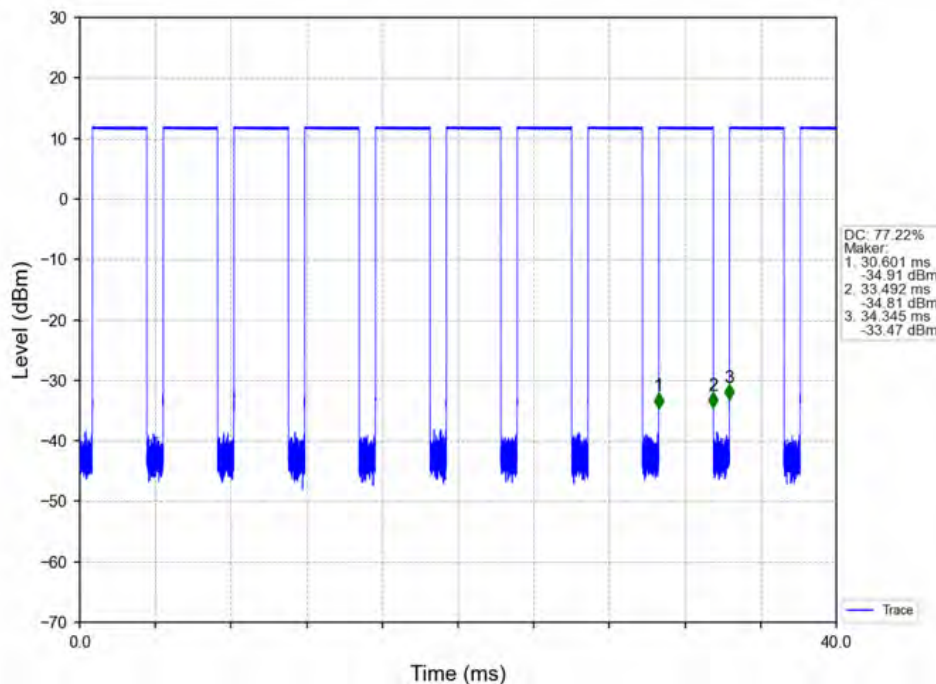
channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

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

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

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

BT DH5 Duty Cycle=(33.492-30.601) / (34.345-30.601)=77.22%



8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D04, 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 simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.

WiFi 2.4G:

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

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

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

8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 13Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	GPRS 1TS	190/836.6	1:8.3	0.352	0.231	0.00	29.40	30.50	1.288	0.453	22.4
Left tilted	GPRS 1TS	190/836.6	1:8.3	0.281	0.185	0.04	29.40	30.50	1.288	0.362	22.4
Right cheek	GPRS 1TS	190/836.6	1:8.3	0.377	0.228	-0.08	29.40	30.50	1.288	0.486	22.3
Right tilted	GPRS 1TS	190/836.6	1:8.3	0.375	0.237	0.01	29.40	30.50	1.288	0.483	22.3
Body worn Test data(Separate 15mm) DSI 6											
Front side	GPRS 4TS	190/836.6	1:2.075	0.184	0.122	-0.11	28.18	29.30	1.294	0.238	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.283	0.201	-0.15	28.18	29.30	1.294	0.366	22.4
Hotspot Test data(Separate 10mm) DSI 8											
Front side	GPRS 4TS	190/836.6	1:2.075	0.219	0.143	0.05	26.73	27.80	1.279	0.280	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.328	0.192	-0.02	26.73	27.80	1.279	0.420	22.3
Left side	GPRS 4TS	190/836.6	1:2.075	0.098	0.054	0.00	26.73	27.80	1.279	0.125	22.4
Top side	GPRS 4TS	190/836.6	1:2.075	0.217	0.122	0.05	26.73	27.80	1.279	0.278	22.4
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.276	0.189	0.14	29.26	30.00	1.186	0.327	22.5
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.148	0.106	0.09	29.26	30.00	1.186	0.175	22.5
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.227	0.165	-0.10	29.26	30.00	1.186	0.269	22.5
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.091	0.045	-0.16	29.26	30.00	1.186	0.108	22.5
Body worn Test data(Separate 15mm) DSI 6											
Front side	GPRS 4TS	190/836.6	1:2.075	0.166	0.117	0.03	29.26	30.00	1.186	0.197	22.3
Back side	GPRS 4TS	190/836.6	1:2.075	0.191	0.136	0.19	29.26	30.00	1.186	0.226	22.3
Hotspot Test data(Separate 10mm) DSI 8											
Front side	GPRS 4TS	190/836.6	1:2.075	0.138	0.089	-0.12	27.88	28.50	1.153	0.159	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.224	0.135	0.09	27.88	28.50	1.153	0.258	22.3
Left side	GPRS 4TS	190/836.6	1:2.075	0.155	0.103	-0.11	27.88	28.50	1.153	0.179	22.4
Right side	GPRS 4TS	190/836.6	1:2.075	0.085	0.056	-0.18	27.88	28.50	1.153	0.098	22.4
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.164	0.090	-0.19	27.88	28.50	1.153	0.189	22.4

Table 11 : SAR of GSM850 for Head, Body and Hotspot.

8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	GPRS 1TS	661/1880	1:8.3	0.192	0.104	0.09	23.85	25.00	1.303	0.250	22.3
Left tilted	GPRS 1TS	661/1880	1:8.3	0.244	0.130	-0.06	23.85	25.00	1.303	0.318	22.3
Right cheek	GPRS 1TS	661/1880	1:8.3	0.290	0.149	0.15	23.85	25.00	1.303	0.378	22.3
Right tilted	GPRS 1TS	661/1880	1:8.3	0.390	0.180	-0.04	23.85	25.00	1.303	0.508	22.3
Body worn Test data(Separate 15mm) DSI 6											
Front side	GPRS 1TS	661/1880	1:8.3	0.090	0.049	0.03	28.25	29.50	1.334	0.120	22.3
Back side	GPRS 1TS	661/1880	1:8.3	0.099	0.056	0.16	28.25	29.50	1.334	0.132	22.3
Hotspot Test data(Separate 10mm) DSI 8											
Front side	GPRS 1TS	661/1880	1:8.3	0.226	0.118	-0.02	27.38	28.50	1.294	0.292	22.3
Back side	GPRS 1TS	661/1880	1:8.3	0.237	0.124	-0.02	27.38	28.50	1.294	0.307	22.3
Left side	GPRS 1TS	661/1880	1:8.3	0.012	0.005	-0.04	27.38	28.50	1.294	0.016	22.3
Top side	GPRS 1TS	661/1880	1:8.3	0.391	0.196	-0.06	27.38	28.50	1.294	0.506	22.3
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.124	0.077	0.03	25.96	26.50	1.132	0.140	22.3
Left tilted	GPRS 4TS	661/1880	1:2.075	0.051	0.031	-0.03	25.96	26.50	1.132	0.058	22.3
Right cheek	GPRS 4TS	661/1880	1:2.075	0.135	0.085	0.07	25.96	26.50	1.132	0.153	22.3
Right tilted	GPRS 4TS	661/1880	1:2.075	0.094	0.056	0.04	25.96	26.50	1.132	0.107	22.3
Body worn Test data(Separate 15mm) DSI 6											
Front side	GPRS 4TS	661/1880	1:2.075	0.143	0.087	0.02	24.42	25.00	1.143	0.163	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.221	0.134	0.09	24.42	25.00	1.143	0.253	22.3
Hotspot Test data(Separate 10mm) DSI 8											
Front side	GPRS 4TS	661/1880	1:2.075	0.131	0.081	0.14	23.96	24.50	1.132	0.148	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.201	0.121	0.03	23.96	24.50	1.132	0.228	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.077	0.046	0.04	23.96	24.50	1.132	0.088	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.144	0.081	0.17	23.96	24.50	1.132	0.163	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.419	0.236	0.08	23.96	24.50	1.132	0.474	22.3

Table 12 : SAR of GSM1900 for Head, Body and Hotspot.

8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	9400/1880	1:1	0.454	0.241	-0.19	15.11	15.70	1.146	0.520	22.5
Left tilted	RMC	9400/1880	1:1	0.563	0.294	-0.01	15.11	15.70	1.146	0.645	22.5
Right cheek	RMC	9400/1880	1:1	0.694	0.361	0.12	15.11	15.70	1.146	0.795	22.5
Right tilted	RMC	9400/1880	1:1	0.867	0.380	0.07	15.11	15.70	1.146	0.993	22.5
Right tilted-repeated	RMC	9400/1880	1:1	0.849	0.373	0.16	15.11	15.70	1.146	0.973	22.3
Right tilted	RMC	9262/1852.4	1:1	0.763	0.378	0.06	14.83	15.70	1.222	0.932	22.5
Right tilted	RMC	9538/1907.6	1:1	0.771	0.383	0.07	14.81	15.70	1.227	0.946	22.5
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	9400/1880	1:1	0.185	0.101	-0.15	18.56	19.20	1.159	0.214	22.4
Back side	RMC	9400/1880	1:1	0.259	0.140	-0.08	18.56	19.20	1.159	0.300	22.4
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	9400/1880	1:1	0.272	0.142	0.15	17.07	17.70	1.156	0.314	22.4
Back side	RMC	9400/1880	1:1	0.383	0.199	0.12	17.07	17.70	1.156	0.443	22.4
Left side	RMC	9400/1880	1:1	0.067	0.038	0.03	17.07	17.70	1.156	0.077	22.4
Top side	RMC	9400/1880	1:1	0.513	0.252	0.08	17.07	17.70	1.156	0.593	22.3
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	9400/1880	1:1	0.219	0.131	0.07	23.25	24.30	1.274	0.279	22.5
Left tilted	RMC	9400/1880	1:1	0.124	0.077	-0.14	23.25	24.30	1.274	0.158	22.5
Right cheek	RMC	9400/1880	1:1	0.174	0.108	0.17	23.25	24.30	1.274	0.222	22.5
Right tilted	RMC	9400/1880	1:1	0.133	0.083	-0.08	23.25	24.30	1.274	0.169	22.5
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	9400/1880	1:1	0.331	0.204	-0.08	23.25	24.30	1.274	0.422	22.4
Back side	RMC	9400/1880	1:1	0.476	0.288	-0.11	23.25	24.30	1.274	0.606	22.3
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	9400/1880	1:1	0.309	0.186	-0.13	20.88	21.80	1.236	0.382	22.4
Back side	RMC	9400/1880	1:1	0.538	0.307	-0.09	20.88	21.80	1.236	0.665	22.3
Left side	RMC	9400/1880	1:1	0.074	0.045	-0.15	20.88	21.80	1.236	0.091	22.4
Right side	RMC	9400/1880	1:1	0.179	0.097	0.06	20.88	21.80	1.236	0.221	22.4
Bottom side	RMC	9400/1880	1:1	0.540	0.313	-0.02	20.88	21.80	1.236	0.667	22.3

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



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	1412/1732.4	1:1	0.430	0.232	-0.16	16.76	17.50	1.186	0.510	22.4
Left tilted	RMC	1412/1732.4	1:1	0.532	0.273	-0.15	16.76	17.50	1.186	0.631	22.4
Right cheek	RMC	1412/1732.4	1:1	0.659	0.306	0.01	16.76	17.50	1.186	0.781	22.4
Right tilted	RMC	1412/1732.4	1:1	0.683	0.299	0.09	16.76	17.50	1.186	0.810	22.4
Right tilted	RMC	1312/1712.4	1:1	0.647	0.283	-0.12	16.64	17.50	1.219	0.789	22.3
Right tilted	RMC	1513/1752.6	1:1	0.717	0.316	-0.02	16.67	17.50	1.211	0.868	22.3
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	1412/1732.4	1:1	0.168	0.092	0.06	20.27	21.00	1.183	0.199	22.4
Back side	RMC	1412/1732.4	1:1	0.197	0.109	0.09	20.27	21.00	1.183	0.233	22.4
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	1412/1732.4	1:1	0.256	0.132	0.02	18.83	19.50	1.167	0.299	22.4
Back side	RMC	1412/1732.4	1:1	0.303	0.155	-0.16	18.83	19.50	1.167	0.354	22.4
Left side	RMC	1412/1732.4	1:1	0.045	0.025	-0.07	18.83	19.50	1.167	0.053	22.4
Top side	RMC	1412/1732.4	1:1	0.350	0.167	-0.01	18.83	19.50	1.167	0.408	22.3
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	1412/1732.4	1:1	0.100	0.064	0.02	23.56	24.50	1.242	0.124	22.4
Left tilted	RMC	1412/1732.4	1:1	0.048	0.030	-0.02	23.56	24.50	1.242	0.060	22.4
Right cheek	RMC	1412/1732.4	1:1	0.067	0.043	0.14	23.56	24.50	1.242	0.083	22.4
Right tilted	RMC	1412/1732.4	1:1	0.063	0.039	-0.18	23.56	24.50	1.242	0.078	22.4
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	1412/1732.4	1:1	0.180	0.112	0.18	21.52	23.00	1.406	0.253	22.4
Back side	RMC	1412/1732.4	1:1	0.275	0.172	-0.11	21.52	23.00	1.406	0.387	22.3
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	1412/1732.4	1:1	0.213	0.127	-0.12	20.42	21.50	1.282	0.273	22.4
Back side	RMC	1412/1732.4	1:1	0.427	0.247	-0.15	20.42	21.50	1.282	0.548	22.3
Left side	RMC	1412/1732.4	1:1	0.052	0.021	-0.11	20.42	21.50	1.282	0.067	22.4
Right side	RMC	1412/1732.4	1:1	0.081	0.044	-0.06	20.42	21.50	1.282	0.104	22.4
Bottom side	RMC	1412/1732.4	1:1	0.553	0.314	0.04	20.42	21.50	1.282	0.709	22.3

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

8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	4182/836.4	1:1	0.476	0.308	0.01	20.79	21.80	1.262	0.601	22.5
Left tilted	RMC	4182/836.4	1:1	0.486	0.286	-0.08	20.79	21.80	1.262	0.613	22.5
Right cheek	RMC	4182/836.4	1:1	0.542	0.332	0.01	20.79	21.80	1.262	0.684	22.5
Right tilted	RMC	4182/836.4	1:1	0.521	0.297	-0.12	20.79	21.80	1.262	0.657	22.5
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	4182/836.4	1:1	0.132	0.086	-0.10	23.89	24.80	1.233	0.163	22.4
Back side	RMC	4182/836.4	1:1	0.288	0.203	0.08	23.89	24.80	1.233	0.355	22.4
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	4182/836.4	1:1	0.253	0.157	0.15	23.89	24.80	1.233	0.312	22.4
Back side	RMC	4182/836.4	1:1	0.420	0.247	0.08	23.89	24.80	1.233	0.518	22.4
Left side	RMC	4182/836.4	1:1	0.098	0.065	-0.03	23.89	24.80	1.233	0.121	22.4
Top side	RMC	4182/836.4	1:1	0.341	0.192	-0.12	23.89	24.80	1.233	0.420	22.4
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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 DSI 5											
Left cheek	RMC	4182/836.4	1:1	0.190	0.133	0.03	23.94	24.90	1.247	0.237	22.5
Left tilted	RMC	4182/836.4	1:1	0.112	0.082	0.06	23.94	24.90	1.247	0.140	22.5
Right cheek	RMC	4182/836.4	1:1	0.179	0.127	-0.16	23.94	24.90	1.247	0.223	22.5
Right tilted	RMC	4182/836.4	1:1	0.095	0.070	0.06	23.94	24.90	1.247	0.119	22.5
Body worn Test data(Separate 15mm) DSI 6											
Front side	RMC	4182/836.4	1:1	0.150	0.108	-0.10	23.94	24.90	1.247	0.187	22.4
Back side	RMC	4182/836.4	1:1	0.175	0.126	-0.16	23.94	24.90	1.247	0.218	22.4
Hotspot Test data(Separate 10mm) DSI 8											
Front side	RMC	4182/836.4	1:1	0.139	0.086	0.04	23.41	24.40	1.256	0.175	22.4
Back side	RMC	4182/836.4	1:1	0.214	0.132	-0.13	23.41	24.40	1.256	0.269	22.4
Left side	RMC	4182/836.4	1:1	0.145	0.096	-0.16	23.41	24.40	1.256	0.182	22.4
Right side	RMC	4182/836.4	1:1	0.097	0.065	-0.05	23.41	24.40	1.256	0.122	22.4
Bottom side	RMC	4182/836.4	1:1	0.186	0.096	-0.17	23.41	24.40	1.256	0.234	22.4

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

8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.325	0.203	0.03	19.66	20.40	1.186	0.385	22.3
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.314	0.184	-0.05	19.66	20.40	1.186	0.372	22.3
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.740	0.369	0.03	19.66	20.40	1.186	0.877	22.3
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.232	0.141	-0.09	19.66	20.40	1.186	0.275	22.3
Right cheek	20	QPSK 1_99	18700/1860	1:1	0.637	0.319	0.15	19.51	20.40	1.227	0.782	22.3
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.759	0.382	0.02	19.57	20.40	1.211	0.919	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_50	18900/1880	1:1	0.332	0.203	-0.08	19.67	20.40	1.183	0.393	22.3
Left tilted	20	QPSK 50_50	18900/1880	1:1	0.316	0.184	-0.16	19.67	20.40	1.183	0.374	22.3
Right cheek	20	QPSK 50_50	18900/1880	1:1	0.735	0.369	0.02	19.67	20.40	1.183	0.870	22.3
Right tilted	20	QPSK 50_50	18900/1880	1:1	0.236	0.144	-0.07	19.67	20.40	1.183	0.279	22.3
Right cheek	20	QPSK 50_25	18700/1860	1:1	0.604	0.303	0.15	19.45	20.40	1.245	0.752	22.3
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.789	0.396	0.09	19.57	20.40	1.211	0.955	22.3
Head Test Data (100%RB) DSI 5												
Right cheek	20	QPSK 100_0	18900/1880	1:1	0.710	0.356	0.17	19.63	20.40	1.194	0.848	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_99	18900/1880	1:1	0.172	0.105	-0.15	22.07	22.90	1.211	0.208	22.3
Back side	20	QPSK 1_99	18900/1880	1:1	0.208	0.108	-0.12	22.07	22.90	1.211	0.252	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_50	18900/1880	1:1	0.163	0.100	-0.08	22.07	22.90	1.211	0.197	22.3
Back side	20	QPSK 50_50	18900/1880	1:1	0.194	0.103	0.18	22.07	22.90	1.211	0.235	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_50	18900/1880	1:1	0.144	0.087	0.01	18.83	19.40	1.140	0.164	22.3
Back side	20	QPSK 1_50	18900/1880	1:1	0.242	0.117	0.14	18.83	19.40	1.140	0.276	22.3
Left side	20	QPSK 1_50	18900/1880	1:1	0.151	0.081	-0.10	18.83	19.40	1.140	0.172	22.3
Top side	20	QPSK 1_50	18900/1880	1:1	0.076	0.042	0.11	18.83	19.40	1.140	0.087	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_50	18900/1880	1:1	0.147	0.088	-0.06	18.80	19.40	1.148	0.169	22.3
Back side	20	QPSK 50_50	18900/1880	1:1	0.232	0.116	0.14	18.80	19.40	1.148	0.266	22.3
Left side	20	QPSK 50_50	18900/1880	1:1	0.158	0.083	-0.19	18.80	19.40	1.148	0.181	22.3
Top side	20	QPSK 50_50	18900/1880	1:1	0.072	0.040	0.16	18.80	19.40	1.148	0.083	22.3
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												



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Left cheek	20	QPSK 1_0	18900/1880	1:1	0.364	0.186	-0.19	14.01	15.30	1.346	0.490	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.433	0.222	-0.02	14.01	15.30	1.346	0.583	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.491	0.251	-0.13	14.01	15.30	1.346	0.661	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.696	0.325	-0.03	14.01	15.30	1.346	0.937	22.5
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.651	0.304	-0.05	13.82	15.30	1.406	0.915	22.5
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.682	0.300	0.11	13.88	15.30	1.387	0.946	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.365	0.187	0.03	13.99	15.30	1.352	0.494	22.5
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.438	0.226	-0.16	13.99	15.30	1.352	0.592	22.5
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.501	0.257	0.07	13.99	15.30	1.352	0.677	22.5
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.677	0.296	-0.05	13.99	15.30	1.352	0.915	22.5
Right tilted	20	QPSK 50_25	18700/1860	1:1	0.653	0.285	0.12	13.77	15.30	1.422	0.929	22.5
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.685	0.300	0.17	13.89	15.30	1.384	0.948	22.3
Head Test Data (100%RB) DSI 5												
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.655	0.288	0.16	13.91	15.30	1.377	0.902	22.3
Head Test Data (1RB) DSI 5 with ENDC												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.364	0.186	-0.19	14.01	12.80	0.757	0.275	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.433	0.222	-0.02	14.01	12.80	0.757	0.328	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.491	0.251	-0.13	14.01	12.80	0.757	0.372	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.696	0.325	-0.03	14.01	12.80	0.757	0.527	22.5
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.651	0.304	-0.05	13.82	12.80	0.791	0.515	22.5
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.682	0.300	0.11	13.88	12.80	0.780	0.532	22.3
Head Test Data (50%RB) DSI 5 with ENDC												
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.365	0.187	0.03	13.99	12.80	0.760	0.278	22.5
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.438	0.226	-0.16	13.99	12.80	0.760	0.333	22.5
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.501	0.257	0.07	13.99	12.80	0.760	0.381	22.5
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.677	0.296	-0.05	13.99	12.80	0.760	0.515	22.5
Right tilted	20	QPSK 50_25	18700/1860	1:1	0.653	0.285	0.12	13.77	12.80	0.800	0.522	22.5
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.685	0.300	0.17	13.89	12.80	0.778	0.533	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_50	18900/1880	1:1	0.174	0.097	0.06	18.91	20.30	1.377	0.240	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.240	0.132	0.02	18.91	20.30	1.377	0.331	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	18900/1880	1:1	0.180	0.099	0.01	18.86	20.30	1.393	0.251	22.4
Back side	20	QPSK 50_25	18900/1880	1:1	0.256	0.143	-0.02	18.86	20.30	1.393	0.357	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	18900/1880	1:1	0.290	0.145	-0.14	17.30	18.30	1.259	0.365	22.4
Back side	20	QPSK 1_0	18900/1880	1:1	0.397	0.201	0.14	17.30	18.30	1.259	0.500	22.4
Left side	20	QPSK 1_0	18900/1880	1:1	0.069	0.038	-0.02	17.30	18.30	1.259	0.087	22.4
Top side	20	QPSK 1_0	18900/1880	1:1	0.529	0.260	-0.01	17.30	18.30	1.259	0.666	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	18900/1880	1:1	0.293	0.147	-0.03	17.25	18.30	1.274	0.373	22.4
Back side	20	QPSK 50_25	18900/1880	1:1	0.406	0.205	-0.14	17.25	18.30	1.274	0.517	22.4
Left side	20	QPSK 50_25	18900/1880	1:1	0.068	0.039	-0.18	17.25	18.30	1.274	0.087	22.4



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Top side	20	QPSK 50_25	18900/1880	1:1	0.549	0.267	-0.02	17.25	18.30	1.274	0.699	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_0	18900/1880	1:1	0.290	0.145	-0.14	17.30	15.30	0.631	0.183	22.4
Back side	20	QPSK 1_0	18900/1880	1:1	0.397	0.201	0.14	17.30	15.30	0.631	0.250	22.4
Left side	20	QPSK 1_0	18900/1880	1:1	0.069	0.038	-0.02	17.30	15.30	0.631	0.044	22.4
Top side	20	QPSK 1_0	18900/1880	1:1	0.529	0.260	-0.01	17.30	15.30	0.631	0.334	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_25	18900/1880	1:1	0.293	0.147	-0.03	17.25	15.30	0.638	0.187	22.4
Back side	20	QPSK 50_25	18900/1880	1:1	0.406	0.205	-0.14	17.25	15.30	0.638	0.259	22.4
Left side	20	QPSK 50_25	18900/1880	1:1	0.068	0.039	-0.18	17.25	15.30	0.638	0.043	22.4
Top side	20	QPSK 50_25	18900/1880	1:1	0.549	0.267	-0.02	17.25	15.30	0.638	0.350	22.3
Ant 31 Test Record												
Test position	BW	Test mode	Test ch./Freq	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.178	0.106	0.16	22.89	23.70	1.205	0.214	22.4
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.082	0.051	-0.08	22.89	23.70	1.205	0.099	22.4
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.149	0.092	-0.17	22.89	23.70	1.205	0.180	22.4
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.098	0.061	0.10	22.89	23.70	1.205	0.118	22.4
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.137	0.083	-0.17	21.96	22.70	1.186	0.162	22.4
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.070	0.043	0.06	21.96	22.70	1.186	0.083	22.4
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.116	0.071	0.11	21.96	22.70	1.186	0.138	22.4
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.082	0.051	-0.13	21.96	22.70	1.186	0.097	22.4
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	18900/1880	1:1	0.261	0.163	0.03	22.89	23.70	1.205	0.315	22.4
Back side	20	QPSK 1_0	18900/1880	1:1	0.422	0.254	-0.01	22.89	23.70	1.205	0.509	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	18900/1880	1:1	0.206	0.129	0.07	21.96	22.70	1.186	0.244	22.4
Back side	20	QPSK 50_25	18900/1880	1:1	0.319	0.189	-0.09	21.96	22.70	1.186	0.378	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_50	18900/1880	1:1	0.239	0.147	-0.06	20.79	21.20	1.099	0.263	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.385	0.222	0.16	20.79	21.20	1.099	0.423	22.4
Left side	20	QPSK 1_50	18900/1880	1:1	0.071	0.042	-0.04	20.79	21.20	1.099	0.078	22.4
Right side	20	QPSK 1_50	18900/1880	1:1	0.121	0.068	-0.07	20.79	21.20	1.099	0.133	22.4
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.354	0.200	-0.02	20.79	21.20	1.099	0.389	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_0	19100/1900	1:1	0.252	0.151	0.02	20.76	21.20	1.107	0.279	22.4
Back side	20	QPSK 50_0	19100/1900	1:1	0.548	0.309	-0.03	20.76	21.20	1.107	0.606	22.4
Left side	20	QPSK 50_0	19100/1900	1:1	0.068	0.041	0.11	20.76	21.20	1.107	0.075	22.4
Right side	20	QPSK 50_0	19100/1900	1:1	0.132	0.074	0.09	20.76	21.20	1.107	0.146	22.4
Bottom side	20	QPSK 50_0	19100/1900	1:1	0.342	0.192	0.04	20.76	21.20	1.107	0.378	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												



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Front side	20	QPSK 1_50	18900/1880	1:1	0.239	0.147	-0.06	20.79	18.20	0.551	0.132	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.385	0.222	0.16	20.79	18.20	0.551	0.212	22.4
Left side	20	QPSK 1_50	18900/1880	1:1	0.071	0.042	-0.04	20.79	18.20	0.551	0.039	22.4
Right side	20	QPSK 1_50	18900/1880	1:1	0.121	0.068	-0.07	20.79	18.20	0.551	0.067	22.4
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.354	0.200	-0.02	20.79	18.20	0.551	0.195	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_0	19100/1900	1:1	0.252	0.151	0.02	20.76	18.20	0.555	0.140	22.4
Back side	20	QPSK 50_0	19100/1900	1:1	0.548	0.309	-0.03	20.76	18.20	0.555	0.304	22.4
Left side	20	QPSK 50_0	19100/1900	1:1	0.068	0.041	0.11	20.76	18.20	0.555	0.038	22.4
Right side	20	QPSK 50_0	19100/1900	1:1	0.132	0.074	0.09	20.76	18.20	0.555	0.073	22.4
Bottom side	20	QPSK 50_0	19100/1900	1:1	0.342	0.192	0.04	20.76	18.20	0.555	0.190	22.4

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



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8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.206	0.112	-0.08	19.47	20.30	1.211	0.249	22.3
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.178	0.095	0.10	19.47	20.30	1.211	0.215	22.3
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.497	0.226	-0.06	19.47	20.30	1.211	0.602	22.3
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.294	0.139	-0.14	19.47	20.30	1.211	0.356	22.3
Right cheek	20	QPSK PCC 1_0	21100/2535	1:1	0.462	0.210	0.01	19.26	20.30	1.271	0.587	22.3
		QPSK SCC 1_99	20902/2515.2									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.204	0.112	0.04	19.51	20.30	1.199	0.245	22.3
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.179	0.094	0.03	19.51	20.30	1.199	0.215	22.3
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.484	0.218	0.01	19.51	20.30	1.199	0.581	22.3
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.296	0.139	-0.08	19.51	20.30	1.199	0.355	22.3
Head Test Data (1RB) DSI 5 with Inter-band UL CA												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.206	0.112	-0.08	19.47	20.00	1.130	0.233	22.3
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.178	0.095	0.10	19.47	20.00	1.130	0.201	22.3
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.497	0.226	-0.06	19.47	20.00	1.130	0.562	22.3
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.294	0.139	-0.14	19.47	20.00	1.130	0.332	22.3
Head Test Data (50%RB) DSI 5 with Inter-band UL CA												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.204	0.112	0.04	19.51	20.00	1.119	0.228	22.3
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.179	0.094	0.03	19.51	20.00	1.119	0.200	22.3
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.484	0.218	0.01	19.51	20.00	1.119	0.542	22.3
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.296	0.139	-0.08	19.51	20.00	1.119	0.331	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.206	0.112	-0.08	19.47	16.30	0.482	0.099	22.3
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.178	0.095	0.10	19.47	16.30	0.482	0.086	22.3
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.497	0.226	-0.06	19.47	16.30	0.482	0.240	22.3
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.294	0.139	-0.14	19.47	16.30	0.482	0.142	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.204	0.112	0.04	19.51	16.30	0.478	0.097	22.3
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.179	0.094	0.03	19.51	16.30	0.478	0.085	22.3
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.484	0.218	0.01	19.51	16.30	0.478	0.231	22.3
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.296	0.139	-0.08	19.51	16.30	0.478	0.141	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	21100/2535	1:1	0.114	0.059	-0.06	21.35	22.30	1.245	0.142	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.259	0.121	-0.08	21.35	22.30	1.245	0.322	22.3
Back side	20	QPSK PCC 1_0	21100/2535	1:1	0.251	0.119	-0.03	21.50	22.30	1.202	0.302	22.3
		QPSK SCC 1_99	20902/2515.2									



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Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_0	21100/2535	1:1	0.115	0.059	0.13	21.41	22.30	1.227	0.141	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.246	0.114	0.10	21.41	22.30	1.227	0.302	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	21100/2535	1:1	0.127	0.061	-0.01	18.37	19.30	1.239	0.157	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.306	0.137	-0.12	18.37	19.30	1.239	0.379	22.3
Left side	20	QPSK 1_0	21100/2535	1:1	0.217	0.103	0.03	18.37	19.30	1.239	0.269	22.3
Top side	20	QPSK 1_0	21100/2535	1:1	0.076	0.040	-0.12	18.37	19.30	1.239	0.094	22.3
Back side	20	QPSK PCC 1_99	21100/2535	1:1	0.216	0.100	0.03	18.20	19.30	1.288	0.278	22.3
		QPSK SCC 1_0	21298/2554.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.062	0.16	18.39	19.30	1.233	0.159	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.289	0.121	-0.05	18.39	19.30	1.233	0.356	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.211	0.099	0.13	18.39	19.30	1.233	0.260	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.069	0.036	-0.08	18.39	19.30	1.233	0.085	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with Inter-band UL CA												
Front side	20	QPSK 1_0	21100/2535	1:1	0.127	0.061	-0.01	18.37	17.00	0.729	0.093	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.306	0.137	-0.12	18.37	17.00	0.729	0.223	22.3
Left side	20	QPSK 1_0	21100/2535	1:1	0.217	0.103	0.03	18.37	17.00	0.729	0.158	22.3
Top side	20	QPSK 1_0	21100/2535	1:1	0.076	0.040	-0.12	18.37	17.00	0.729	0.055	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with Inter-band UL CA												
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.062	0.16	18.39	17.00	0.726	0.094	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.289	0.121	-0.05	18.39	17.00	0.726	0.210	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.211	0.099	0.13	18.39	17.00	0.726	0.153	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.069	0.036	-0.08	18.39	17.00	0.726	0.050	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_0	21100/2535	1:1	0.127	0.061	-0.01	18.37	16.30	0.621	0.079	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.306	0.137	-0.12	18.37	16.30	0.621	0.190	22.3
Left side	20	QPSK 1_0	21100/2535	1:1	0.217	0.103	0.03	18.37	16.30	0.621	0.135	22.3
Top side	20	QPSK 1_0	21100/2535	1:1	0.076	0.040	-0.12	18.37	16.30	0.621	0.047	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.062	0.16	18.39	16.30	0.618	0.080	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.289	0.121	-0.05	18.39	16.30	0.618	0.179	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.211	0.099	0.13	18.39	16.30	0.618	0.130	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.069	0.036	-0.08	18.39	16.30	0.618	0.043	22.3
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.251	0.127	0.14	17.07	18.00	1.239	0.311	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.320	0.159	0.01	17.07	18.00	1.239	0.396	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.515	0.254	0.02	17.07	18.00	1.239	0.638	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.701	0.314	0.08	17.07	18.00	1.239	0.868	22.3



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Right tilted	20	QPSK 1_0	20850/2510	1:1	0.714	0.310	0.05	16.88	18.00	1.294	0.924	22.3
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.665	0.304	0.06	16.84	18.00	1.306	0.869	22.3
Right tilted	20	QPSK PCC 1_99	20850/2510	1:1	0.650	0.297	0.07	16.72	18.00	1.343	0.873	22.3
		QPSK SCC 1_0	21048/2529.8									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.232	0.119	0.01	16.91	18.00	1.285	0.298	22.5
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.293	0.146	-0.17	16.91	18.00	1.285	0.377	22.5
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.497	0.250	0.15	16.91	18.00	1.285	0.639	22.5
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.673	0.301	0.06	16.91	18.00	1.285	0.865	22.3
Right tilted	20	QPSK 50_25	20850/2510	1:1	0.698	0.303	0.02	16.83	18.00	1.309	0.914	22.3
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.674	0.306	0.01	16.90	18.00	1.288	0.868	22.3
Head Test Data (100%RB) DSI 5												
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.676	0.302	0.05	16.82	18.00	1.312	0.887	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.251	0.127	0.14	17.07	14.00	0.493	0.124	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.320	0.159	0.01	17.07	14.00	0.493	0.158	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.515	0.254	0.02	17.07	14.00	0.493	0.254	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.701	0.314	0.08	17.07	14.00	0.493	0.346	22.3
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.714	0.310	0.05	16.88	14.00	0.515	0.368	22.3
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.665	0.304	0.06	16.84	14.00	0.520	0.346	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.232	0.119	0.01	16.91	14.00	0.512	0.119	22.5
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.293	0.146	-0.17	16.91	14.00	0.512	0.150	22.5
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.497	0.250	0.15	16.91	14.00	0.512	0.254	22.5
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.673	0.301	0.06	16.91	14.00	0.512	0.344	22.3
Right tilted	20	QPSK 50_25	20850/2510	1:1	0.698	0.303	0.02	16.83	14.00	0.521	0.364	22.3
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.674	0.306	0.01	16.90	14.00	0.513	0.346	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_99	20850/2510	1:1	0.146	0.078	-0.11	19.51	20.50	1.256	0.183	22.3
Back side	20	QPSK 1_99	20850/2510	1:1	0.372	0.188	0.05	19.51	20.50	1.256	0.467	22.3
Back side	20	QPSK PCC 1_99	20850/2510	1:1	0.297	0.145	0.12	19.45	20.50	1.274	0.378	22.3
		QPSK SCC 1_0	21048/2529.8									
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	20850/2510	1:1	0.145	0.077	0.10	19.56	20.50	1.242	0.180	22.3
Back side	20	QPSK 50_25	20850/2510	1:1	0.320	0.160	-0.01	19.56	20.50	1.242	0.397	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_50	20850/2510	1:1	0.152	0.077	-0.19	17.60	18.50	1.230	0.187	22.3
Back side	20	QPSK 1_50	20850/2510	1:1	0.441	0.195	-0.06	17.60	18.50	1.230	0.543	22.3
Left side	20	QPSK 1_50	20850/2510	1:1	0.097	0.051	0.06	17.60	18.50	1.230	0.119	22.3
Top side	20	QPSK 1_50	20850/2510	1:1	0.517	0.232	0.01	17.60	18.50	1.230	0.636	22.3
Top side	20	QPSK PCC 1_99	20850/2510	1:1	0.356	0.161	0.07	17.52	18.50	1.253	0.446	22.3
		QPSK SCC 1_0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	20850/2510	1:1	0.153	0.077	0.06	17.61	18.50	1.227	0.188	22.3



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Back side	20	QPSK 50_25	20850/2510	1:1	0.413	0.189	-0.08	17.61	18.50	1.227	0.507	22.3
Left side	20	QPSK 50_25	20850/2510	1:1	0.102	0.052	-0.02	17.61	18.50	1.227	0.125	22.3
Top side	20	QPSK 50_25	20850/2510	1:1	0.454	0.200	-0.14	17.61	18.50	1.227	0.557	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with Inter-band UL CA&ENDC												
Front side	20	QPSK 1_50	20850/2510	1:1	0.152	0.077	-0.19	17.60	15.50	0.617	0.094	22.3
Back side	20	QPSK 1_50	20850/2510	1:1	0.441	0.195	-0.06	17.60	15.50	0.617	0.272	22.3
Left side	20	QPSK 1_50	20850/2510	1:1	0.097	0.051	0.06	17.60	15.50	0.617	0.060	22.3
Top side	20	QPSK 1_50	20850/2510	1:1	0.517	0.232	0.01	17.60	15.50	0.617	0.319	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with Inter-band UL CA&ENDC												
Front side	20	QPSK 50_25	20850/2510	1:1	0.153	0.077	0.06	17.61	15.50	0.615	0.094	22.3
Back side	20	QPSK 50_25	20850/2510	1:1	0.413	0.189	-0.08	17.61	15.50	0.615	0.254	22.3
Left side	20	QPSK 50_25	20850/2510	1:1	0.102	0.052	-0.02	17.61	15.50	0.615	0.063	22.3
Top side	20	QPSK 50_25	20850/2510	1:1	0.454	0.200	-0.14	17.61	15.50	0.615	0.279	22.3
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.184	0.107	-0.14	22.89	23.40	1.125	0.207	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.135	0.071	0.10	22.89	23.40	1.125	0.152	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.318	0.178	0.13	22.89	23.40	1.125	0.358	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.156	0.085	-0.17	22.89	23.40	1.125	0.175	22.5
Right cheek	20	QPSK PCC 1_0	21100/2535	1:1	0.310	0.175	-0.05	22.79	23.40	1.151	0.357	22.3
		QPSK SCC 1_99	20902/2515.2									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.151	0.088	0.06	21.87	22.40	1.130	0.171	22.5
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.110	0.060	-0.01	21.87	22.40	1.130	0.124	22.5
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.267	0.151	-0.14	21.87	22.40	1.130	0.302	22.5
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.133	0.072	0.18	21.87	22.40	1.130	0.150	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	21100/2535	1:1	0.181	0.106	-0.09	22.89	23.40	1.125	0.204	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.221	0.112	0.04	22.89	23.40	1.125	0.249	22.4
Back side	20	QPSK PCC 1_0	21100/2535	1:1	0.205	0.105	0.07	22.79	23.40	1.151	0.236	22.3
		QPSK SCC 1_99	20902/2515.2									
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	21100/2535	1:1	0.157	0.092	0.15	21.87	22.40	1.130	0.177	22.4
Back side	20	QPSK 50_25	21100/2535	1:1	0.181	0.090	0.14	21.87	22.40	1.130	0.204	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	21100/2535	1:1	0.170	0.098	-0.13	19.85	20.40	1.135	0.193	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.237	0.116	-0.08	19.85	20.40	1.135	0.269	22.4
Left side	20	QPSK 1_0	21100/2535	1:1	0.039	0.021	0.04	19.85	20.40	1.135	0.044	22.4
Right side	20	QPSK 1_0	21100/2535	1:1	0.132	0.073	0.07	19.85	20.40	1.135	0.150	22.4
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.147	0.076	-0.16	19.85	20.40	1.135	0.167	22.4
Back side	20	QPSK PCC 1_0	21100/2535	1:1	0.231	0.111	0.05	19.84	20.40	1.138	0.263	22.3



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		QPSK SCC 1_99	20902/2515.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	21100/2535	1:1	0.203	0.113	-0.17	19.85	20.40	1.135	0.230	22.4
Back side	20	QPSK 50_25	21100/2535	1:1	0.230	0.108	-0.04	19.85	20.40	1.135	0.261	22.4
Left side	20	QPSK 50_25	21100/2535	1:1	0.041	0.022	-0.16	19.85	20.40	1.135	0.047	22.4
Right side	20	QPSK 50_25	21100/2535	1:1	0.154	0.083	0.01	19.85	20.40	1.135	0.175	22.4
Bottom side	20	QPSK 50_25	21100/2535	1:1	0.152	0.078	-0.05	19.85	20.40	1.135	0.173	22.4

Table 17 : SAR of LTE Band 7 for Head, Body and Hotspot.



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8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.441	0.261	0.17	22.94	24.30	1.368	0.603	22.5
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.465	0.252	0.12	22.94	24.30	1.368	0.636	22.5
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.482	0.280	-0.09	22.94	24.30	1.368	0.659	22.5
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.435	0.226	-0.09	22.94	24.30	1.368	0.595	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.376	0.225	0.15	22.25	23.80	1.429	0.537	22.5
Left tilted	10	QPSK 25_13	23095/707.5	1:1	0.394	0.216	0.14	22.25	23.80	1.429	0.563	22.5
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.453	0.255	0.10	22.25	23.80	1.429	0.647	22.5
Right tilted	10	QPSK 25_13	23095/707.5	1:1	0.413	0.214	-0.05	22.25	23.80	1.429	0.590	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.098	0.072	-0.09	23.35	24.80	1.396	0.137	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.167	0.128	0.05	23.35	24.80	1.396	0.233	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.076	0.056	-0.17	22.19	23.80	1.449	0.110	22.4
Back side	10	QPSK 25_13	23095/707.5	1:1	0.121	0.088	-0.05	22.19	23.80	1.449	0.175	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.115	0.076	-0.13	23.35	24.80	1.396	0.161	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.188	0.120	0.07	23.35	24.80	1.396	0.263	22.4
Left side	10	QPSK 1_0	23095/707.5	1:1	0.137	0.092	-0.18	23.35	24.80	1.396	0.191	22.4
Top side	10	QPSK 1_0	23095/707.5	1:1	0.135	0.072	0.11	23.35	24.80	1.396	0.189	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.091	0.059	-0.16	22.19	23.80	1.449	0.132	22.4
Back side	10	QPSK 25_13	23095/707.5	1:1	0.153	0.105	0.07	22.19	23.80	1.449	0.222	22.4
Left side	10	QPSK 25_13	23095/707.5	1:1	0.108	0.072	-0.03	22.19	23.80	1.449	0.156	22.4
Top side	10	QPSK 25_13	23095/707.5	1:1	0.103	0.056	0.13	22.19	23.80	1.449	0.149	22.4
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DS 5												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.111	0.080	0.18	23.52	24.30	1.197	0.133	22.5
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.061	0.045	-0.11	23.52	24.30	1.197	0.073	22.5
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.109	0.079	0.01	23.52	24.30	1.197	0.130	22.5
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.060	0.044	0.04	23.52	24.30	1.197	0.072	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.093	0.067	0.00	22.43	23.30	1.222	0.114	22.5



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Left tilted	10	QPSK 25_13	23095/707.5	1:1	0.052	0.039	-0.14	22.43	23.30	1.222	0.064	22.5
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.092	0.067	-0.07	22.43	23.30	1.222	0.112	22.5
Right tilted	10	QPSK 25_13	23095/707.5	1:1	0.052	0.039	0.08	22.43	23.30	1.222	0.064	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.160	0.116	0.08	23.52	24.30	1.197	0.191	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.209	0.159	-0.17	23.52	24.30	1.197	0.250	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.129	0.093	-0.09	22.43	23.30	1.222	0.158	22.4
Back side	10	QPSK 25_13	23095/707.5	1:1	0.153	0.110	-0.01	22.43	23.30	1.222	0.187	22.4
Hotspot Test data (Separate 10mm 1RB) DS 8												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.148	0.107	-0.15	23.52	24.30	1.197	0.177	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.197	0.141	0.00	23.52	24.30	1.197	0.236	22.4
Left side	10	QPSK 1_0	23095/707.5	1:1	0.223	0.154	0.06	23.52	24.30	1.197	0.267	22.4
Right side	10	QPSK 1_0	23095/707.5	1:1	0.135	0.090	-0.08	23.52	24.30	1.197	0.162	22.4
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.093	0.048	0.11	23.52	24.30	1.197	0.111	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.121	0.087	0.19	22.43	23.30	1.222	0.148	22.4
Back side	10	QPSK 25_13	23095/707.5	1:1	0.155	0.112	0.02	22.43	23.30	1.222	0.189	22.4
Left side	10	QPSK 25_13	23095/707.5	1:1	0.164	0.109	-0.01	22.43	23.30	1.222	0.200	22.4
Right side	10	QPSK 25_13	23095/707.5	1:1	0.105	0.070	-0.14	22.43	23.30	1.222	0.128	22.4
Bottom side	10	QPSK 25_13	23095/707.5	1:1	0.077	0.040	0.14	22.43	23.30	1.222	0.094	22.4

Table 18 : SAR of LTE Band 12 for Head, Body and Hotspot.



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8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.415	0.263	0.08	22.48	24.00	1.419	0.589	22.5
Left tilted	10	QPSK 1_0	23230/782	1:1	0.395	0.240	-0.04	22.48	24.00	1.419	0.561	22.5
Right cheek	10	QPSK 1_0	23230/782	1:1	0.541	0.320	0.06	22.48	24.00	1.419	0.768	22.5
Right tilted	10	QPSK 1_0	23230/782	1:1	0.489	0.257	0.18	22.48	24.00	1.419	0.694	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	10	QPSK 25_13	23230/782	1:1	0.361	0.230	-0.03	22.14	23.50	1.368	0.494	22.5
Left tilted	10	QPSK 25_13	23230/782	1:1	0.331	0.209	-0.13	22.14	23.50	1.368	0.453	22.5
Right cheek	10	QPSK 25_13	23230/782	1:1	0.469	0.268	0.01	22.14	23.50	1.368	0.641	22.5
Right tilted	10	QPSK 25_13	23230/782	1:1	0.429	0.225	-0.02	22.14	23.50	1.368	0.587	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	10	QPSK 1_0	23230/782	1:1	0.087	0.063	-0.02	23.04	24.50	1.400	0.122	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.216	0.164	0.01	23.04	24.50	1.400	0.302	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	10	QPSK 25_13	23230/782	1:1	0.066	0.048	-0.15	21.89	23.50	1.449	0.096	22.4
Back side	10	QPSK 25_13	23230/782	1:1	0.120	0.086	-0.08	21.89	23.50	1.449	0.174	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	10	QPSK 1_0	23230/782	1:1	0.120	0.078	-0.12	23.04	24.50	1.400	0.168	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.209	0.130	0.03	23.04	24.50	1.400	0.293	22.4
Left side	10	QPSK 1_0	23230/782	1:1	0.101	0.067	-0.13	23.04	24.50	1.400	0.141	22.4
Top side	10	QPSK 1_0	23230/782	1:1	0.135	0.080	-0.04	23.04	24.50	1.400	0.189	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	10	QPSK 25_13	23230/782	1:1	0.094	0.061	-0.17	21.89	23.50	1.449	0.136	22.4
Back side	10	QPSK 25_13	23230/782	1:1	0.158	0.107	-0.09	21.89	23.50	1.449	0.229	22.4
Left side	10	QPSK 25_13	23230/782	1:1	0.074	0.049	-0.15	21.89	23.50	1.449	0.107	22.4
Top side	10	QPSK 25_13	23230/782	1:1	0.105	0.063	0.09	21.89	23.50	1.449	0.152	22.4
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.133	0.094	-0.15	23.45	24.20	1.189	0.158	22.5
Left tilted	10	QPSK 1_0	23230/782	1:1	0.087	0.064	0.04	23.45	24.20	1.189	0.103	22.5
Right cheek	10	QPSK 1_0	23230/782	1:1	0.116	0.083	0.02	23.45	24.20	1.189	0.138	22.5
Right tilted	10	QPSK 1_0	23230/782	1:1	0.064	0.047	-0.12	23.45	24.20	1.189	0.076	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	10	QPSK 25_13	23230/782	1:1	0.105	0.075	0.11	22.37	23.20	1.211	0.127	22.5



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Left tilted	10	QPSK 25_13	23230/782	1:1	0.070	0.051	0.14	22.37	23.20	1.211	0.085	22.5
Right cheek	10	QPSK 25_13	23230/782	1:1	0.089	0.064	-0.13	22.37	23.20	1.211	0.108	22.5
Right tilted	10	QPSK 25_13	23230/782	1:1	0.052	0.039	0.09	22.37	23.20	1.211	0.063	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	10	QPSK 1_0	23230/782	1:1	0.149	0.107	-0.05	23.45	24.20	1.189	0.177	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.176	0.127	0.14	23.45	24.20	1.189	0.209	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	10	QPSK 25_13	23230/782	1:1	0.111	0.080	0.19	22.37	23.20	1.211	0.134	22.4
Back side	10	QPSK 25_13	23230/782	1:1	0.135	0.097	0.12	22.37	23.20	1.211	0.163	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	10	QPSK 1_0	23230/782	1:1	0.139	0.100	-0.04	23.45	24.20	1.189	0.165	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.206	0.157	-0.01	23.45	24.20	1.189	0.245	22.4
Left side	10	QPSK 1_0	23230/782	1:1	0.175	0.116	0.01	23.45	24.20	1.189	0.208	22.4
Right side	10	QPSK 1_0	23230/782	1:1	0.108	0.072	-0.08	23.45	24.20	1.189	0.128	22.4
Bottom side	10	QPSK 1_0	23230/782	1:1	0.137	0.071	-0.11	23.45	24.20	1.189	0.163	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	10	QPSK 25_13	23230/782	1:1	0.106	0.076	-0.16	22.37	23.20	1.211	0.128	22.4
Back side	10	QPSK 25_13	23230/782	1:1	0.141	0.101	0.06	22.37	23.20	1.211	0.171	22.4
Left side	10	QPSK 25_13	23230/782	1:1	0.137	0.092	0.01	22.37	23.20	1.211	0.166	22.4
Right side	10	QPSK 25_13	23230/782	1:1	0.082	0.055	0.15	22.37	23.20	1.211	0.099	22.4
Bottom side	10	QPSK 25_13	23230/782	1:1	0.118	0.061	0.07	22.37	23.20	1.211	0.143	22.4

Table 19 : SAR of LTE Band 13 for Head, Body and Hotspot.



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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.454	0.298	-0.15	20.97	22.50	1.422	0.646	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.459	0.272	-0.08	20.97	22.50	1.422	0.653	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.578	0.335	0.14	20.97	22.50	1.422	0.822	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.525	0.283	0.16	20.97	22.50	1.422	0.747	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.491	0.306	0.05	20.93	22.50	1.435	0.705	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.548	0.343	-0.13	20.83	22.50	1.469	0.805	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	15	QPSK 36_18	26865/831.5	1:1	0.452	0.301	-0.01	20.89	22.50	1.449	0.655	22.5
Left tilted	15	QPSK 36_18	26865/831.5	1:1	0.457	0.272	0.02	20.89	22.50	1.449	0.662	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.619	0.374	0.09	20.89	22.50	1.449	0.897	22.5
Right tilted	15	QPSK 36_18	26865/831.5	1:1	0.528	0.284	0.07	20.89	22.50	1.449	0.765	22.5
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.511	0.315	0.08	20.84	22.50	1.466	0.749	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.534	0.338	0.01	20.88	22.50	1.452	0.775	22.5
Head Test Data (100%RB) DSI 5												
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.580	0.340	0.02	20.93	22.50	1.435	0.833	22.5
Head Test Data (1RB) DSI 5 with Inter-band UL CA&ENDC												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.454	0.298	-0.15	20.97	21.00	1.007	0.457	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.459	0.272	-0.08	20.97	21.00	1.007	0.462	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.578	0.335	0.14	20.97	21.00	1.007	0.582	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.525	0.283	0.16	20.97	21.00	1.007	0.529	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.491	0.306	0.05	20.93	21.00	1.016	0.499	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.548	0.343	-0.13	20.83	21.00	1.040	0.570	22.5
Head Test Data (50%RB) DSI 5 with Inter-band UL CA&ENDC												
Left cheek	15	QPSK 36_18	26865/831.5	1:1	0.452	0.301	-0.01	20.89	21.00	1.026	0.464	22.5
Left tilted	15	QPSK 36_18	26865/831.5	1:1	0.457	0.272	0.02	20.89	21.00	1.026	0.469	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.619	0.374	0.09	20.89	21.00	1.026	0.635	22.5
Right tilted	15	QPSK 36_18	26865/831.5	1:1	0.528	0.284	0.07	20.89	21.00	1.026	0.542	22.5
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.511	0.315	0.08	20.84	21.00	1.038	0.530	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.534	0.338	0.01	20.88	21.00	1.028	0.549	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.104	0.070	0.05	23.32	25.00	1.472	0.153	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.256	0.182	0.04	23.32	25.00	1.472	0.377	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.089	0.059	0.00	22.37	24.00	1.455	0.130	22.4
Back side	15	QPSK 36_18	26865/831.5	1:1	0.146	0.099	-0.03	22.37	24.00	1.455	0.212	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												



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Front side	15	QPSK 1_0	26865/831.5	1:1	0.166	0.103	0.05	22.70	24.50	1.514	0.251	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.257	0.156	0.01	22.70	24.50	1.514	0.389	22.4
Left side	15	QPSK 1_0	26865/831.5	1:1	0.071	0.047	-0.08	22.70	24.50	1.514	0.107	22.4
Top side	15	QPSK 1_0	26865/831.5	1:1	0.221	0.132	-0.16	22.70	24.50	1.514	0.334	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.172	0.108	0.12	22.18	24.00	1.521	0.262	22.4
Back side	15	QPSK 36_18	26865/831.5	1:1	0.308	0.178	0.11	22.18	24.00	1.521	0.468	22.4
Left side	15	QPSK 36_18	26865/831.5	1:1	0.069	0.046	0.04	22.18	24.00	1.521	0.105	22.4
Top side	15	QPSK 36_18	26865/831.5	1:1	0.222	0.132	0.05	22.18	24.00	1.521	0.338	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8 with Inter-band UL CA												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.166	0.103	0.05	22.70	22.00	0.851	0.141	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.257	0.156	0.01	22.70	22.00	0.851	0.219	22.4
Left side	15	QPSK 1_0	26865/831.5	1:1	0.071	0.047	-0.08	22.70	22.00	0.851	0.060	22.4
Top side	15	QPSK 1_0	26865/831.5	1:1	0.221	0.132	-0.16	22.70	22.00	0.851	0.188	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with Inter-band UL CA												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.172	0.108	0.12	22.18	22.00	0.959	0.165	22.4
Back side	15	QPSK 36_18	26865/831.5	1:1	0.308	0.178	0.11	22.18	22.00	0.959	0.295	22.4
Left side	15	QPSK 36_18	26865/831.5	1:1	0.069	0.046	0.04	22.18	22.00	0.959	0.066	22.4
Top side	15	QPSK 36_18	26865/831.5	1:1	0.222	0.132	0.05	22.18	22.00	0.959	0.213	22.4
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.139	0.098	0.15	23.53	24.60	1.279	0.178	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.083	0.061	-0.02	23.53	24.60	1.279	0.106	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.135	0.097	0.09	23.53	24.60	1.279	0.173	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.070	0.051	-0.16	23.53	24.60	1.279	0.090	22.5
Head Test Data (50%RB) DSI 5												
Left cheek	15	QPSK 36_18	26865/831.5	1:1	0.118	0.084	-0.05	22.44	23.60	1.306	0.154	22.5
Left tilted	15	QPSK 36_18	26865/831.5	1:1	0.072	0.052	0.15	22.44	23.60	1.306	0.094	22.5
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.114	0.082	0.08	22.44	23.60	1.306	0.149	22.5
Right tilted	15	QPSK 36_18	26865/831.5	1:1	0.059	0.044	-0.10	22.44	23.60	1.306	0.077	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.118	0.085	0.09	23.53	24.60	1.279	0.151	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.136	0.098	0.12	23.53	24.60	1.279	0.174	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.101	0.072	-0.05	22.44	23.60	1.306	0.132	22.4
Back side	15	QPSK 36_18	26865/831.5	1:1	0.113	0.082	0.11	22.44	23.60	1.306	0.148	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.123	0.089	0.16	23.53	24.60	1.279	0.157	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.192	0.118	0.14	23.53	24.60	1.279	0.246	22.4
Left side	15	QPSK 1_0	26865/831.5	1:1	0.133	0.087	-0.13	23.53	24.60	1.279	0.170	22.4
Right side	15	QPSK 1_0	26865/831.5	1:1	0.091	0.061	0.08	23.53	24.60	1.279	0.116	22.4



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Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.138	0.074	-0.18	23.53	24.60	1.279	0.177	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.100	0.072	0.14	22.44	23.60	1.306	0.131	22.4
Back side	15	QPSK 36_18	26865/831.5	1:1	0.150	0.094	-0.12	22.44	23.60	1.306	0.196	22.4
Left side	15	QPSK 36_18	26865/831.5	1:1	0.107	0.070	-0.17	22.44	23.60	1.306	0.140	22.4
Right side	15	QPSK 36_18	26865/831.5	1:1	0.076	0.050	0.13	22.44	23.60	1.306	0.099	22.4
Bottom side	15	QPSK 36_18	26865/831.5	1:1	0.114	0.062	0.10	22.44	23.60	1.306	0.149	22.4

Table 20 : SAR of LTE Band 26 for Head, Body and Hotspot.



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8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.191	0.106	0.14	20.60	21.40	1.202	0.230	22.3
Left tilted	20	QPSK 1_50	41055/2636.5	1:1.58	0.098	0.050	0.05	20.60	21.40	1.202	0.118	22.3
Right cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.557	0.267	-0.03	20.60	21.40	1.202	0.670	22.3
Right tilted	20	QPSK 1_50	41055/2636.5	1:1.58	0.240	0.112	0.05	20.60	21.40	1.202	0.289	22.3
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.547	0.275	0.03	20.44	21.40	1.247	0.682	22.3
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.504	0.251	-0.12	20.49	21.40	1.233	0.621	22.3
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.526	0.252	-0.17	20.15	21.40	1.334	0.701	22.3
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.583	0.233	0.07	20.19	21.40	1.321	0.770	22.3
Right cheek	20	QPSK PCC 1_0	41490/2680	1:1.58	0.499	0.218	0.05	20.34	21.40	1.276	0.637	22.3
		QPSK SCC 1_99	41292/2660.2									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	41055/2636.5	1:1.58	0.193	0.106	-0.09	20.58	21.40	1.208	0.233	22.3
Left tilted	20	QPSK 50_25	41055/2636.5	1:1.58	0.098	0.049	0.13	20.58	21.40	1.208	0.118	22.3
Right cheek	20	QPSK 50_25	41055/2636.5	1:1.58	0.475	0.205	-0.07	20.58	21.40	1.208	0.574	22.3
Right tilted	20	QPSK 50_25	41055/2636.5	1:1.58	0.240	0.113	0.16	20.58	21.40	1.208	0.290	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.088	0.046	-0.09	22.63	23.40	1.194	0.105	22.3
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.219	0.104	-0.06	22.63	23.40	1.194	0.261	22.3
Back side	20	QPSK PCC 1_99	40185/2549.5	1:1.58	0.206	0.097	-0.03	22.60	23.40	1.202	0.248	22.3
		QPSK SCC 1_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	40185/2549.5	1:1.58	0.047	0.023	-0.11	21.65	22.40	1.189	0.056	22.3
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.172	0.083	-0.06	21.65	22.40	1.189	0.204	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.121	0.060	-0.03	20.29	20.90	1.151	0.139	22.3
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.336	0.155	0.19	20.29	20.90	1.151	0.387	22.3
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	0.185	0.090	-0.16	20.29	20.90	1.151	0.213	22.3
Top side	20	QPSK 1_0	40185/2549.5	1:1.58	0.060	0.031	0.08	20.29	20.90	1.151	0.069	22.3
Back side	20	QPSK PCC 1_99	40185/2549.5	1:1.58	0.320	0.143	0.04	20.11	20.90	1.199	0.384	22.3
		QPSK SCC 1_0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.109	0.055	-0.09	20.23	20.90	1.167	0.127	22.4
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.297	0.132	-0.17	20.23	20.90	1.167	0.347	22.4
Left side	20	QPSK 50_0	40185/2549.5	1:1.58	0.162	0.076	-0.04	20.23	20.90	1.167	0.189	22.4
Top side	20	QPSK 50_0	40185/2549.5	1:1.58	0.067	0.035	0.01	20.23	20.90	1.167	0.078	22.4
Ant 13 Test Record												



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.207	0.110	-0.11	18.71	19.80	1.285	0.266	22.3
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.259	0.129	-0.07	18.71	19.80	1.285	0.333	22.3
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.462	0.246	-0.01	18.71	19.80	1.285	0.594	22.3
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.576	0.265	0.16	18.71	19.80	1.285	0.740	22.3
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.389	0.195	0.03	18.55	19.80	1.334	0.519	22.3
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.459	0.223	0.02	18.61	19.80	1.315	0.604	22.3
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.520	0.254	-0.18	18.70	19.80	1.288	0.670	22.3
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.487	0.235	0.03	18.45	19.80	1.365	0.665	22.3
Right tilted	20	QPSK PCC 1_0	40620/2593	1:1.58	0.488	0.252	-0.05	18.51	19.80	1.346	0.657	22.3
		QPSK SCC 1_99	40422/2573.2									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.210	0.112	0.04	18.71	19.80	1.285	0.270	22.3
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.259	0.131	-0.18	18.71	19.80	1.285	0.333	22.3
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.493	0.255	-0.04	18.71	19.80	1.285	0.634	22.3
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.574	0.265	0.06	18.71	19.80	1.285	0.738	22.3
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.472	0.223	-0.13	18.64	19.80	1.306	0.617	22.3
Right cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.463	0.237	-0.17	18.61	19.80	1.315	0.609	22.3
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.572	0.292	-0.02	18.63	19.80	1.309	0.749	22.3
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.558	0.287	-0.17	18.56	19.80	1.330	0.742	22.3
Right tilted	20	QPSK 50_25	39750/2506	1:1.58	0.613	0.260	0.06	18.64	19.80	1.306	0.801	22.3
Right tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.581	0.265	0.02	18.61	19.80	1.315	0.764	22.3
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.565	0.277	-0.14	18.63	19.80	1.309	0.740	22.3
Right tilted	20	QPSK 50_50	41490/2680	1:1.58	0.521	0.253	-0.10	18.56	19.80	1.330	0.693	22.3
Head Test Data (100%RB) DSI 5												
Right tilted	20	QPSK 100_0	41055/2636.5	1:1.58	0.570	0.278	0.02	18.62	19.80	1.312	0.748	22.3
Head Test Data (1RB) DSI 5 with END C												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.207	0.110	-0.11	18.71	18.80	1.021	0.211	22.3
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.259	0.129	-0.07	18.71	18.80	1.021	0.264	22.3
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.462	0.246	-0.01	18.71	18.80	1.021	0.472	22.3
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.576	0.265	0.16	18.71	18.80	1.021	0.588	22.3
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.389	0.195	0.03	18.55	18.80	1.059	0.412	22.3
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.459	0.223	0.02	18.61	18.80	1.045	0.480	22.3
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.520	0.254	-0.18	18.70	18.80	1.023	0.532	22.3
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.487	0.235	0.03	18.45	18.80	1.084	0.528	22.3
Head Test Data (50%RB) DSI 5 with END C												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.210	0.112	0.04	18.71	18.80	1.021	0.214	22.3
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.259	0.131	-0.18	18.71	18.80	1.021	0.264	22.3



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Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.493	0.255	-0.04	18.71	18.80	1.021	0.503	22.3
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.574	0.265	0.06	18.71	18.80	1.021	0.586	22.3
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.472	0.223	-0.13	18.64	18.80	1.038	0.490	22.3
Right cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.463	0.237	-0.17	18.61	18.80	1.045	0.484	22.3
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.572	0.292	-0.02	18.63	18.80	1.040	0.595	22.3
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.558	0.287	-0.17	18.56	18.80	1.057	0.590	22.3
Right tilted	20	QPSK 50_25	39750/2506	1:1.58	0.613	0.260	0.06	18.64	18.80	1.038	0.636	22.3
Right tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.581	0.265	0.02	18.61	18.80	1.045	0.607	22.3
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.565	0.277	-0.14	18.63	18.80	1.040	0.588	22.3
Right tilted	20	QPSK 50_50	41490/2680	1:1.58	0.521	0.253	-0.10	18.56	18.80	1.057	0.551	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.148	0.078	-0.07	21.70	22.80	1.288	0.191	22.4
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.302	0.154	0.05	21.70	22.80	1.288	0.389	22.4
Back side	20	QPSK PCC 1_99	40185/2549.5	1:1.58	0.297	0.152	0.01	21.65	22.80	1.303	0.387	22.3
		QPSK SCC 1_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_50	39750/2506	1:1.58	0.141	0.075	0.06	21.74	22.80	1.276	0.180	22.4
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.295	0.146	0.09	21.70	22.80	1.288	0.380	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.161	0.085	0.12	19.56	20.80	1.330	0.214	22.4
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.401	0.187	0.06	19.56	20.80	1.330	0.534	22.4
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.136	0.070	-0.10	19.56	20.80	1.330	0.181	22.4
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.499	0.223	0.07	19.56	20.80	1.330	0.664	22.4
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.491	0.224	0.02	19.50	20.80	1.349	0.662	22.3
Top side	20	QPSK 1_99	40185/2549.5	1:1.58	0.420	0.190	-0.09	19.52	20.80	1.343	0.564	22.3
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.307	0.140	0.15	19.41	20.80	1.377	0.423	22.3
Top side	20	QPSK 1_0	41490/2680	1:1.58	0.291	0.133	-0.02	19.37	20.80	1.390	0.404	22.3
Top side	20	QPSK PCC 1_99	40620/2593	1:1.58	0.434	0.195	0.11	19.60	20.80	1.318	0.572	22.3
		QPSK SCC 1_0	40818/2612.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.168	0.089	0.16	19.55	20.80	1.334	0.224	22.4
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.407	0.189	0.07	19.55	20.80	1.334	0.543	22.4
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.146	0.075	-0.04	19.55	20.80	1.334	0.195	22.4
Top side	20	QPSK 50_25	40620/2593	1:1.58	0.480	0.215	0.08	19.55	20.80	1.334	0.640	22.3
Top side	20	QPSK 50_50	39750/2506	1:1.58	0.453	0.202	0.07	19.50	20.80	1.349	0.611	22.3
Top side	20	QPSK 50_25	40185/2549.5	1:1.58	0.384	0.173	-0.14	19.53	20.80	1.340	0.514	22.3
Top side	20	QPSK 50_50	41055/2636.5	1:1.58	0.348	0.158	0.14	19.49	20.80	1.352	0.471	22.3
Top side	20	QPSK 50_50	41490/2680	1:1.58	0.281	0.127	0.09	19.20	20.80	1.445	0.406	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.161	0.085	0.12	19.56	17.80	0.667	0.107	22.4
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.401	0.187	0.06	19.56	17.80	0.667	0.267	22.4



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Left side	20	QPSK 1_0	40620/2593	1:1.58	0.136	0.070	-0.10	19.56	17.80	0.667	0.091	22.4
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.499	0.223	0.07	19.56	17.80	0.667	0.333	22.4
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.491	0.224	0.02	19.50	17.80	0.676	0.332	22.3
Top side	20	QPSK 1_99	40185/2549.5	1:1.58	0.420	0.190	-0.09	19.52	17.80	0.673	0.283	22.3
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.307	0.140	0.15	19.41	17.80	0.690	0.212	22.3
Top side	20	QPSK 1_0	41490/2680	1:1.58	0.291	0.133	-0.02	19.37	17.80	0.697	0.203	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.168	0.089	0.16	19.55	17.80	0.668	0.112	22.4
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.407	0.189	0.07	19.55	17.80	0.668	0.272	22.4
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.146	0.075	-0.04	19.55	17.80	0.668	0.098	22.4
Top side	20	QPSK 50_25	40620/2593	1:1.58	0.480	0.215	0.08	19.55	17.80	0.668	0.321	22.3
Top side	20	QPSK 50_50	39750/2506	1:1.58	0.453	0.202	0.07	19.50	17.80	0.676	0.306	22.3
Top side	20	QPSK 50_25	40185/2549.5	1:1.58	0.384	0.173	-0.14	19.53	17.80	0.671	0.258	22.3
Top side	20	QPSK 50_50	41055/2636.5	1:1.58	0.348	0.158	0.14	19.49	17.80	0.678	0.236	22.3
Top side	20	QPSK 50_50	41490/2680	1:1.58	0.281	0.127	0.09	19.20	17.80	0.724	0.204	22.3
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.141	0.081	0.10	22.98	24.00	1.265	0.178	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.086	0.046	0.02	22.98	24.00	1.265	0.109	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.248	0.138	0.12	22.98	24.00	1.265	0.314	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.127	0.067	0.14	22.98	24.00	1.265	0.161	22.5
Right cheek	20	QPSK PCC 1_0	40620/2593	1:1.58	0.239	0.129	0.02	22.88	24.00	1.294	0.309	22.3
		QPSK SCC 1_99	40422/2573.2									
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.108	0.062	-0.12	22.02	23.00	1.253	0.135	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.065	0.035	-0.16	22.02	23.00	1.253	0.081	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.191	0.107	-0.16	22.02	23.00	1.253	0.239	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.098	0.053	0.08	22.02	23.00	1.253	0.123	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.141	0.080	0.05	22.98	24.00	1.265	0.178	22.4
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.189	0.097	-0.02	22.98	24.00	1.265	0.239	22.4
Back side	20	QPSK PCC 1_0	40620/2593	1:1.58	0.181	0.093	-0.06	22.88	24.00	1.294	0.234	22.3
		QPSK SCC 1_99	40422/2573.2									
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.109	0.063	0.17	22.02	23.00	1.253	0.137	22.4
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.152	0.077	0.15	22.02	23.00	1.253	0.190	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.134	0.076	0.16	21.26	22.00	1.186	0.159	22.4
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.215	0.097	0.04	21.26	22.00	1.186	0.255	22.4



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Left side	20	QPSK 1_99	39750/2506	1:1.58	0.049	0.023	0.15	21.26	22.00	1.186	0.058	22.4
Right side	20	QPSK 1_99	39750/2506	1:1.58	0.111	0.058	0.16	21.26	22.00	1.186	0.132	22.4
Bottom side	20	QPSK 1_99	39750/2506	1:1.58	0.113	0.058	-0.16	21.26	22.00	1.186	0.134	22.4
Back side	20	QPSK PCC 1_99	39750/2506	1:1.58	0.177	0.088	-0.03	21.36	22.00	1.159	0.205	22.3
		QPSK SCC 1_0	39948/2525.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_50	39750/2506	1:1.58	0.133	0.075	0.14	21.25	22.00	1.189	0.158	22.4
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.155	0.075	0.11	21.25	22.00	1.189	0.184	22.4
Left side	20	QPSK 50_50	39750/2506	1:1.58	0.047	0.014	-0.07	21.25	22.00	1.189	0.056	22.4
Right side	20	QPSK 50_50	39750/2506	1:1.58	0.112	0.061	-0.10	21.25	22.00	1.189	0.133	22.4
Bottom side	20	QPSK 50_50	39750/2506	1:1.58	0.112	0.058	0.17	21.25	22.00	1.189	0.133	22.4

Table 21 : SAR of LTE Band 41 for Head, Body and Hotspot.



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8.2.12 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.304	0.192	0.04	21.83	22.40	1.140	0.347	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.206	0.120	0.09	21.83	22.40	1.140	0.235	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.616	0.321	-0.02	21.83	22.40	1.140	0.702	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.255	0.144	0.01	21.83	22.40	1.140	0.291	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	132072/1720	1:1	0.270	0.175	-0.07	21.92	22.40	1.117	0.302	22.3
Left tilted	20	QPSK 50_25	132072/1720	1:1	0.204	0.123	-0.15	21.92	22.40	1.117	0.228	22.3
Right cheek	20	QPSK 50_25	132072/1720	1:1	0.586	0.300	0.06	21.92	22.40	1.117	0.654	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.253	0.147	0.09	21.92	22.40	1.117	0.283	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_50	132322/1745	1:1	0.130	0.083	0.11	23.47	24.40	1.239	0.161	22.3
Back side	20	QPSK 1_50	132322/1745	1:1	0.214	0.117	-0.01	23.47	24.40	1.239	0.265	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	132072/1720	1:1	0.112	0.072	-0.12	22.55	23.40	1.216	0.136	22.3
Back side	20	QPSK 50_25	132072/1720	1:1	0.182	0.101	-0.08	22.55	23.40	1.216	0.221	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_50	132072/1720	1:1	0.127	0.073	0.01	20.44	21.90	1.400	0.178	22.3
Back side	20	QPSK 1_50	132072/1720	1:1	0.255	0.136	0.07	20.44	21.90	1.400	0.357	22.3
Left side	20	QPSK 1_50	132072/1720	1:1	0.238	0.122	0.02	20.44	21.90	1.400	0.333	22.3
Top side	20	QPSK 1_50	132072/1720	1:1	0.007	0.002	-0.05	20.44	21.90	1.400	0.010	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_50	132072/1720	1:1	0.126	0.073	0.19	20.53	21.90	1.371	0.173	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	0.268	0.141	-0.08	20.53	21.90	1.371	0.367	22.3
Left side	20	QPSK 50_50	132072/1720	1:1	0.228	0.119	-0.12	20.53	21.90	1.371	0.313	22.3
Top side	20	QPSK 50_50	132072/1720	1:1	0.005	0.001	-0.19	20.53	21.90	1.371	0.007	22.3
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.295	0.153	-0.05	14.80	16.30	1.413	0.417	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.347	0.177	-0.12	14.80	16.30	1.413	0.490	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.414	0.207	0.08	14.80	16.30	1.413	0.585	22.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.472	0.206	0.07	14.80	16.30	1.413	0.667	22.5



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Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.298	0.155	-0.01	14.84	16.30	1.400	0.417	22.5
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.348	0.179	0.14	14.84	16.30	1.400	0.487	22.5
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.414	0.208	0.19	14.84	16.30	1.400	0.579	22.5
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.461	0.203	0.18	14.84	16.30	1.400	0.645	22.3
Head Test Data (1RB) DSI 5 with Inter-band UL CA												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.295	0.153	-0.05	14.80	15.30	1.122	0.331	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.347	0.177	-0.12	14.80	15.30	1.122	0.389	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.414	0.207	0.08	14.80	15.30	1.122	0.465	22.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.472	0.206	0.07	14.80	15.30	1.122	0.530	22.5
Head Test Data (50%RB) DSI 5 with Inter-band UL CA												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.298	0.155	-0.01	14.84	15.30	1.112	0.331	22.5
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.348	0.179	0.14	14.84	15.30	1.112	0.387	22.5
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.414	0.208	0.19	14.84	15.30	1.112	0.460	22.5
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.461	0.203	0.18	14.84	15.30	1.112	0.513	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_0	132322/1745	1:1	0.157	0.084	-0.09	19.88	21.30	1.387	0.218	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.181	0.099	-0.17	19.88	21.30	1.387	0.251	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_25	132322/1745	1:1	0.152	0.082	-0.11	20.07	21.30	1.327	0.202	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.183	0.101	0.07	20.07	21.30	1.327	0.243	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	132322/1745	1:1	0.249	0.123	-0.11	18.26	19.80	1.426	0.355	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.280	0.146	-0.09	18.26	19.80	1.426	0.399	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.050	0.028	-0.19	18.26	19.80	1.426	0.071	22.4
Top side	20	QPSK 1_0	132322/1745	1:1	0.324	0.158	0.10	18.26	19.80	1.426	0.462	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	132322/1745	1:1	0.245	0.120	0.01	18.33	19.80	1.403	0.344	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.277	0.145	0.04	18.33	19.80	1.403	0.389	22.4
Left side	20	QPSK 50_25	132322/1745	1:1	0.047	0.027	-0.12	18.33	19.80	1.403	0.066	22.4
Top side	20	QPSK 50_25	132322/1745	1:1	0.337	0.162	-0.03	18.33	19.80	1.403	0.473	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_0	132322/1745	1:1	0.249	0.123	-0.11	18.26	16.80	0.714	0.178	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.280	0.146	-0.09	18.26	16.80	0.714	0.200	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.050	0.028	-0.19	18.26	16.80	0.714	0.036	22.4
Top side	20	QPSK 1_0	132322/1745	1:1	0.324	0.158	0.10	18.26	16.80	0.714	0.231	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_25	132322/1745	1:1	0.245	0.120	0.01	18.33	16.80	0.703	0.172	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.277	0.145	0.04	18.33	16.80	0.703	0.195	22.4
Left side	20	QPSK 50_25	132322/1745	1:1	0.047	0.027	-0.12	18.33	16.80	0.703	0.033	22.4
Top side	20	QPSK 50_25	132322/1745	1:1	0.337	0.162	-0.03	18.33	16.80	0.703	0.237	22.3
Ant 31 Test Record												



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.094	0.060	0.18	23.05	23.80	1.189	0.112	22.4
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.044	0.027	0.07	23.05	23.80	1.189	0.052	22.4
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.063	0.040	0.05	23.05	23.80	1.189	0.075	22.4
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.053	0.032	0.08	23.05	23.80	1.189	0.063	22.4
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.075	0.047	0.03	22.11	22.80	1.172	0.088	22.4
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.032	0.018	-0.14	22.11	22.80	1.172	0.038	22.4
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.054	0.034	0.06	22.11	22.80	1.172	0.063	22.4
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.043	0.026	-0.06	22.11	22.80	1.172	0.050	22.4
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_99	132072/1720	1:1	0.198	0.123	0.04	22.69	23.30	1.151	0.228	22.4
Back side	20	QPSK 1_99	132072/1720	1:1	0.376	0.234	0.01	22.69	23.30	1.151	0.433	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_50	132072/1720	1:1	0.186	0.115	0.07	22.25	22.80	1.135	0.211	22.4
Back side	20	QPSK 50_50	132072/1720	1:1	0.330	0.199	0.04	22.25	22.80	1.135	0.375	22.4
Body worn Test data (Separate 15mm 1RB) DSI 6 with ENDC												
Front side	20	QPSK 1_99	132072/1720	1:1	0.198	0.123	0.04	22.69	20.80	0.647	0.128	22.4
Back side	20	QPSK 1_99	132072/1720	1:1	0.376	0.234	0.01	22.69	20.80	0.647	0.243	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 6 with ENDC												
Front side	20	QPSK 50_50	132072/1720	1:1	0.186	0.115	0.07	22.25	20.80	0.716	0.133	22.4
Back side	20	QPSK 50_50	132072/1720	1:1	0.330	0.199	0.04	22.25	20.80	0.716	0.236	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_0	132322/1745	1:1	0.199	0.118	0.17	19.99	20.80	1.205	0.240	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.378	0.220	-0.06	19.99	20.80	1.205	0.456	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.005	0.002	0.09	19.99	20.80	1.205	0.006	22.4
Right side	20	QPSK 1_0	132322/1745	1:1	0.082	0.045	-0.11	19.99	20.80	1.205	0.099	22.4
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.493	0.278	-0.03	19.99	20.80	1.205	0.594	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_25	132322/1745	1:1	0.191	0.115	-0.11	20.04	20.80	1.191	0.228	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.377	0.218	0.03	20.04	20.80	1.191	0.449	22.4
Left side	20	QPSK 50_25	132322/1745	1:1	0.004	0.002	-0.04	20.04	20.80	1.191	0.005	22.4
Right side	20	QPSK 50_25	132322/1745	1:1	0.091	0.048	-0.07	20.04	20.80	1.191	0.108	22.4
Bottom side	20	QPSK 50_25	132322/1745	1:1	0.476	0.268	-0.09	20.04	20.80	1.191	0.567	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with Inter-band UL CA												
Front side	20	QPSK 1_0	132322/1745	1:1	0.199	0.118	0.17	19.99	17.30	0.538	0.107	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.378	0.220	-0.06	19.99	17.30	0.538	0.203	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.005	0.002	0.09	19.99	17.30	0.538	0.003	22.4
Right side	20	QPSK 1_0	132322/1745	1:1	0.082	0.045	-0.11	19.99	17.30	0.538	0.044	22.4
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.493	0.278	-0.03	19.99	17.30	0.538	0.265	22.3



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Hotspot Test data (Separate 10mm 50%RB) DSI 8 with Inter-band UL CA												
Front side	20	QPSK 50_25	132322/1745	1:1	0.191	0.115	-0.11	20.04	17.30	0.532	0.102	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.377	0.218	0.03	20.04	17.30	0.532	0.201	22.4
Left side	20	QPSK 50_25	132322/1745	1:1	0.004	0.002	-0.04	20.04	17.30	0.532	0.002	22.4
Right side	20	QPSK 50_25	132322/1745	1:1	0.091	0.048	-0.07	20.04	17.30	0.532	0.048	22.4
Bottom side	20	QPSK 50_25	132322/1745	1:1	0.476	0.268	-0.09	20.04	17.30	0.532	0.253	22.3

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



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8.2.13 SAR Result of NR Band n2

N2 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_104	376000/1880	100%	0.238	0.145	0.08	20.79	21.80	1.262	0.300	22.3
Left tilted	20	QPSK 1_104	376000/1880	100%	0.215	0.119	0.19	20.79	21.80	1.262	0.271	22.3
Right cheek	20	QPSK 1_104	376000/1880	100%	0.728	0.360	0.01	20.79	21.80	1.262	0.919	22.4
Right tilted	20	QPSK 1_104	376000/1880	100%	0.283	0.153	0.03	20.79	21.80	1.262	0.357	22.4
Right cheek	20	QPSK 1_104	372000/1860	100%	0.626	0.313	0.03	20.39	21.80	1.384	0.866	22.4
Right cheek	20	QPSK 1_1	380000/1900	100%	0.704	0.349	-0.06	20.75	21.80	1.274	0.897	22.4
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.260	0.158	0.09	20.77	21.80	1.268	0.330	22.4
Left tilted	20	QPSK 50_28	380000/1900	100%	0.235	0.131	-0.02	20.77	21.80	1.268	0.298	22.4
Right cheek	20	QPSK 50_28	380000/1900	100%	0.784	0.383	0.04	20.77	21.80	1.268	0.994	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.291	0.159	-0.11	20.77	21.80	1.268	0.369	22.4
Right cheek	20	QPSK 50_28	372000/1860	100%	0.553	0.280	0.01	20.35	21.80	1.396	0.772	22.4
Right cheek	20	QPSK 50_28	376000/1880	100%	0.696	0.345	0.03	20.74	21.80	1.276	0.888	22.4
Head Test Data (100%RB) DSI 5												
Right cheek	20	QPSK 100_0	376000/1880	100%	0.542	0.268	0.03	19.73	20.80	1.279	0.693	22.4
Head Test Data (1RB) DSI 5 with ENDC												
Left cheek	20	QPSK 1_104	376000/1880	100%	0.238	0.145	0.08	20.79	19.80	0.796	0.189	22.3
Left tilted	20	QPSK 1_104	376000/1880	100%	0.215	0.119	0.19	20.79	19.80	0.796	0.171	22.3
Right cheek	20	QPSK 1_104	376000/1880	100%	0.728	0.360	0.01	20.79	19.80	0.796	0.580	22.4
Right tilted	20	QPSK 1_104	376000/1880	100%	0.283	0.153	0.03	20.79	19.80	0.796	0.225	22.4
Right cheek	20	QPSK 1_104	372000/1860	100%	0.626	0.313	0.03	20.39	19.80	0.873	0.546	22.4
Right cheek	20	QPSK 1_1	380000/1900	100%	0.704	0.349	-0.06	20.75	19.80	0.804	0.566	22.4
Head Test Data (50%RB) DSI 5 with ENDC												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.260	0.158	0.09	20.77	19.80	0.800	0.208	22.4
Left tilted	20	QPSK 50_28	380000/1900	100%	0.235	0.131	-0.02	20.77	19.80	0.800	0.188	22.4
Right cheek	20	QPSK 50_28	380000/1900	100%	0.784	0.383	0.04	20.77	19.80	0.800	0.627	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.291	0.159	-0.11	20.77	19.80	0.800	0.233	22.4
Right cheek	20	QPSK 50_28	372000/1860	100%	0.553	0.280	0.01	20.35	19.80	0.881	0.487	22.4
Right cheek	20	QPSK 50_28	376000/1880	100%	0.696	0.345	0.03	20.74	19.80	0.805	0.561	22.4
Body worn Test data (Separate 15mm 1RB) DSI6												
Front side	20	QPSK 1_104	376000/1880	100%	0.094	0.058	0.07	21.29	22.30	1.262	0.119	22.3
Back side	20	QPSK 1_104	376000/1880	100%	0.159	0.092	0.01	21.29	22.30	1.262	0.201	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	380000/1900	100%	0.109	0.066	-0.02	21.31	22.30	1.256	0.137	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.173	0.099	0.07	21.31	22.30	1.256	0.217	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												



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Front side	20	QPSK 1_1	380000/1900	100%	0.081	0.046	0.04	18.21	19.30	1.285	0.104	22.3
Back side	20	QPSK 1_1	380000/1900	100%	0.189	0.097	0.04	18.21	19.30	1.285	0.243	22.3
Left side	20	QPSK 1_1	380000/1900	100%	0.134	0.071	0.09	18.21	19.30	1.285	0.172	22.3
Top side	20	QPSK 1_1	380000/1900	100%	0.052	0.030	0.08	18.21	19.30	1.285	0.067	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	376000/1880	100%	0.075	0.044	0.07	18.22	19.30	1.282	0.096	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.184	0.096	0.06	18.22	19.30	1.282	0.236	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.128	0.070	-0.04	18.22	19.30	1.282	0.164	22.3
Top side	20	QPSK 50_28	376000/1880	100%	0.036	0.021	0.07	18.22	19.30	1.282	0.046	22.3
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_104	372000/1860	100%	0.211	0.103	0.07	12.63	14.30	1.469	0.310	22.4
Left tilted	20	QPSK 1_104	372000/1860	100%	0.264	0.132	0.01	12.63	14.30	1.469	0.388	22.4
Right cheek	20	QPSK 1_104	372000/1860	100%	0.381	0.171	0.05	12.63	14.30	1.469	0.560	22.4
Right tilted	20	QPSK 1_104	372000/1860	100%	0.549	0.242	0.11	12.63	14.30	1.469	0.806	22.4
Right tilted	20	QPSK 1_104	376000/1880	100%	0.558	0.245	-0.03	12.58	14.30	1.486	0.829	22.4
Right tilted	20	QPSK 1_1	380000/1900	100%	0.538	0.236	-0.04	12.59	14.30	1.483	0.798	22.4
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.236	0.114	0.02	12.68	14.30	1.452	0.343	22.4
Left tilted	20	QPSK 50_28	376000/1880	100%	0.293	0.141	0.13	12.68	14.30	1.452	0.425	22.4
Right cheek	20	QPSK 50_28	376000/1880	100%	0.466	0.225	0.05	12.68	14.30	1.452	0.677	22.4
Right tilted	20	QPSK 50_28	376000/1880	100%	0.606	0.269	0.01	12.68	14.30	1.452	0.880	22.4
Right tilted	20	QPSK 50_28	372000/1860	100%	0.569	0.255	0.11	12.58	14.30	1.486	0.845	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.574	0.256	0.03	12.61	14.30	1.476	0.847	22.4
Head Test Data (100%RB) DSI 5												
Right tilted	20	QPSK 100_0	376000/1880	100%	0.443	0.198	0.05	11.62	13.30	1.472	0.652	22.4
Head Test Data (1RB) DSI 5 with ENDC												
Left cheek	20	QPSK 1_104	372000/1860	100%	0.211	0.103	0.07	12.63	12.60	0.993	0.210	22.4
Left tilted	20	QPSK 1_104	372000/1860	100%	0.264	0.132	0.01	12.63	12.60	0.993	0.262	22.4
Right cheek	20	QPSK 1_104	372000/1860	100%	0.381	0.171	0.05	12.63	12.60	0.993	0.378	22.4
Right tilted	20	QPSK 1_104	372000/1860	100%	0.549	0.242	0.11	12.63	12.60	0.993	0.545	22.4
Right tilted	20	QPSK 1_104	376000/1880	100%	0.558	0.245	-0.03	12.58	12.60	1.005	0.561	22.4
Right tilted	20	QPSK 1_1	380000/1900	100%	0.538	0.236	-0.04	12.59	12.60	1.002	0.539	22.4
Head Test Data (50%RB) DSI 5 with ENDC												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.236	0.114	0.02	12.68	12.60	0.982	0.232	22.4
Left tilted	20	QPSK 50_28	376000/1880	100%	0.293	0.141	0.13	12.68	12.60	0.982	0.288	22.4
Right cheek	20	QPSK 50_28	376000/1880	100%	0.466	0.225	0.05	12.68	12.60	0.982	0.457	22.4
Right tilted	20	QPSK 50_28	376000/1880	100%	0.606	0.269	0.01	12.68	12.60	0.982	0.595	22.4
Right tilted	20	QPSK 50_28	372000/1860	100%	0.569	0.255	0.11	12.58	12.60	1.005	0.572	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.574	0.256	0.03	12.61	12.60	0.998	0.573	22.4
Body worn Test data (Separate 15mm 1RB) DSI 6												



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Front side	20	QPSK 1_104	372000/1860	100%	0.174	0.097	-0.14	18.56	20.30	1.493	0.260	22.3
Back side	20	QPSK 1_104	372000/1860	100%	0.281	0.156	0.04	18.56	20.30	1.493	0.419	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	376000/1880	100%	0.181	0.103	0.10	18.59	20.30	1.483	0.268	22.4
Back side	20	QPSK 50_28	376000/1880	100%	0.290	0.162	0.06	18.59	20.30	1.483	0.430	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_104	372000/1860	100%	0.150	0.078	0.03	15.66	17.30	1.459	0.219	22.4
Back side	20	QPSK 1_104	372000/1860	100%	0.220	0.118	0.01	15.66	17.30	1.459	0.321	22.4
Left side	20	QPSK 1_104	372000/1860	100%	0.039	0.023	0.06	15.66	17.30	1.459	0.057	22.4
Top side	20	QPSK 1_104	372000/1860	100%	0.357	0.175	0.08	15.66	17.30	1.459	0.521	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	380000/1900	100%	0.168	0.085	-0.05	15.68	17.30	1.452	0.244	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.287	0.148	0.02	15.68	17.30	1.452	0.417	22.4
Left side	20	QPSK 50_28	380000/1900	100%	0.050	0.029	0.06	15.68	17.30	1.452	0.073	22.4
Top side	20	QPSK 50_28	380000/1900	100%	0.362	0.178	0.18	15.68	17.30	1.452	0.526	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_104	372000/1860	100%	0.150	0.078	0.03	15.66	14.60	0.783	0.118	22.4
Back side	20	QPSK 1_104	372000/1860	100%	0.220	0.118	0.01	15.66	14.60	0.783	0.172	22.4
Left side	20	QPSK 1_104	372000/1860	100%	0.039	0.023	0.06	15.66	14.60	0.783	0.030	22.4
Top side	20	QPSK 1_104	372000/1860	100%	0.357	0.175	0.08	15.66	14.60	0.783	0.280	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_28	380000/1900	100%	0.168	0.085	-0.05	15.68	14.60	0.780	0.131	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.287	0.148	0.02	15.68	14.60	0.780	0.224	22.4
Left side	20	QPSK 50_28	380000/1900	100%	0.050	0.029	0.06	15.68	14.60	0.780	0.039	22.4
Top side	20	QPSK 50_28	380000/1900	100%	0.362	0.178	0.18	15.68	14.60	0.780	0.282	22.4
Ant31 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_104	376000/1880	100%	0.148	0.094	0.00	22.68	23.90	1.324	0.196	22.3
Left tilted	20	QPSK 1_104	376000/1880	100%	0.062	0.037	-0.06	22.68	23.90	1.324	0.082	22.3
Right cheek	20	QPSK 1_104	376000/1880	100%	0.135	0.079	-0.03	22.68	23.90	1.324	0.179	22.3
Right tilted	20	QPSK 1_104	376000/1880	100%	0.086	0.051	0.16	22.68	23.90	1.324	0.113	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.141	0.081	-0.06	22.71	23.90	1.315	0.185	22.3
Left tilted	20	QPSK 50_28	380000/1900	100%	0.071	0.040	0.09	22.71	23.90	1.315	0.093	22.3
Right cheek	20	QPSK 50_28	380000/1900	100%	0.130	0.076	0.06	22.71	23.90	1.315	0.171	22.3
Right tilted	20	QPSK 50_28	380000/1900	100%	0.094	0.055	0.06	22.71	23.90	1.315	0.124	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_104	376000/1880	100%	0.230	0.140	0.16	22.68	23.90	1.324	0.305	22.3
Back side	20	QPSK 1_104	376000/1880	100%	0.372	0.223	0.00	22.68	23.90	1.324	0.493	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	380000/1900	100%	0.202	0.124	0.03	22.71	23.90	1.315	0.266	22.3



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Back side	20	QPSK 50_28	380000/1900	100%	0.356	0.213	0.01	22.71	23.90	1.315	0.468	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_104	376000/1880	100%	0.226	0.136	-0.02	20.27	21.40	1.297	0.293	22.3
Back side	20	QPSK 1_104	376000/1880	100%	0.405	0.231	0.11	20.27	21.40	1.297	0.525	22.3
Left side	20	QPSK 1_104	376000/1880	100%	0.067	0.039	-0.05	20.27	21.40	1.297	0.087	22.3
Right side	20	QPSK 1_104	376000/1880	100%	0.128	0.071	0.03	20.27	21.40	1.297	0.166	22.3
Bottom side	20	QPSK 1_104	376000/1880	100%	0.442	0.245	0.14	20.27	21.40	1.297	0.573	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	380000/1900	100%	0.202	0.119	-0.02	20.29	21.40	1.291	0.261	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.382	0.204	0.01	20.29	21.40	1.291	0.493	22.3
Left side	20	QPSK 50_28	380000/1900	100%	0.063	0.036	-0.06	20.29	21.40	1.291	0.081	22.3
Right side	20	QPSK 50_28	380000/1900	100%	0.129	0.071	-0.02	20.29	21.40	1.291	0.167	22.3
Bottom side	20	QPSK 50_28	380000/1900	100%	0.402	0.227	0.11	20.29	21.40	1.291	0.519	22.3

Table 23 : SAR of NR Band n2 for Head, Body and Hotspot.



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8.2.14 SAR Result of NR Band n5

N5 SAR Test Record												
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.392	0.272	0.10	19.88	21.50	1.452	0.569	22.1
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.333	0.219	0.14	19.88	21.50	1.452	0.484	22.1
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.612	0.384	-0.02	19.88	21.50	1.452	0.889	22.1
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.445	0.261	0.12	19.88	21.50	1.452	0.646	22.1
Right cheek	20	QPSK 1_53	166800/834	100%	0.599	0.376	0.03	19.87	21.50	1.455	0.872	22.1
Right cheek	20	QPSK 1_53	167800/839	100%	0.599	0.375	0.13	19.82	21.50	1.472	0.882	22.1
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	166800/834	100%	0.492	0.336	0.03	19.87	21.50	1.455	0.716	22.1
Left tilted	20	QPSK 50_28	166800/834	100%	0.393	0.259	0.07	19.87	21.50	1.455	0.572	22.1
Right cheek	20	QPSK 50_28	166800/834	100%	0.610	0.381	0.07	19.87	21.50	1.455	0.888	22.1
Right tilted	20	QPSK 50_28	166800/834	100%	0.445	0.286	0.13	19.87	21.50	1.455	0.648	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.612	0.381	0.07	19.78	21.50	1.486	0.909	22.1
Right cheek	20	QPSK 50_28	167800/839	100%	0.610	0.380	0.11	19.78	21.50	1.486	0.906	22.1
Head Test Data (100%RB) DSI 5												
Right cheek	20	QPSK 50_28	166800/834	100%	0.489	0.307	-0.04	18.78	20.50	1.486	0.727	22.1
Head Test Data (1RB) DSI 5 with ENDC												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.392	0.272	0.10	19.88	19.50	0.916	0.359	22.1
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.333	0.219	0.14	19.88	19.50	0.916	0.305	22.1
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.612	0.384	-0.02	19.88	19.50	0.916	0.561	22.1
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.445	0.261	0.12	19.88	19.50	0.916	0.408	22.1
Right cheek	20	QPSK 1_53	166800/834	100%	0.599	0.376	0.03	19.87	19.50	0.918	0.550	22.1
Right cheek	20	QPSK 1_53	167800/839	100%	0.599	0.375	0.13	19.82	19.50	0.929	0.556	22.1
Head Test Data (50%RB) DSI 5 with ENDC												
Left cheek	20	QPSK 50_28	166800/834	100%	0.492	0.336	0.03	19.87	19.50	0.918	0.452	22.1
Left tilted	20	QPSK 50_28	166800/834	100%	0.393	0.259	0.07	19.87	19.50	0.918	0.361	22.1
Right cheek	20	QPSK 50_28	166800/834	100%	0.610	0.381	0.07	19.87	19.50	0.918	0.560	22.1
Right tilted	20	QPSK 50_28	166800/834	100%	0.445	0.286	0.13	19.87	19.50	0.918	0.409	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.612	0.381	0.07	19.78	19.50	0.938	0.574	22.1
Right cheek	20	QPSK 50_28	167800/839	100%	0.610	0.380	0.11	19.78	19.50	0.938	0.572	22.1
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_53	166800/834	100%	0.156	0.106	0.10	22.81	24.50	1.476	0.230	22.1
Back side	20	QPSK 1_53	166800/834	100%	0.230	0.165	0.04	22.81	24.50	1.476	0.339	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	166800/834	100%	0.158	0.107	0.08	22.81	24.50	1.476	0.233	22.1
Back side	20	QPSK 50_28	166800/834	100%	0.224	0.151	0.14	22.81	24.50	1.476	0.331	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 8												



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Front side	20	QPSK 1_53	166800/834	100%	0.175	0.115	0.14	22.41	24.00	1.442	0.252	22.3
Back side	20	QPSK 1_53	166800/834	100%	0.272	0.182	0.11	22.41	24.00	1.442	0.392	22.3
Left side	20	QPSK 1_53	166800/834	100%	0.090	0.060	-0.04	22.41	24.00	1.442	0.130	22.3
Top side	20	QPSK 1_53	166800/834	100%	0.218	0.131	0.06	22.41	24.00	1.442	0.314	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	166800/834	100%	0.177	0.115	0.05	22.35	24.00	1.462	0.259	22.3
Back side	20	QPSK 50_28	166800/834	100%	0.344	0.203	0.14	22.35	24.00	1.462	0.503	22.3
Left side	20	QPSK 50_28	166800/834	100%	0.087	0.057	0.15	22.35	24.00	1.462	0.127	22.3
Top side	20	QPSK 50_28	166800/834	100%	0.217	0.130	-0.19	22.35	24.00	1.462	0.317	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	20	QPSK 1_53	166800/834	100%	0.175	0.115	0.14	22.41	21.00	0.723	0.126	22.3
Back side	20	QPSK 1_53	166800/834	100%	0.272	0.182	0.11	22.41	21.00	0.723	0.197	22.3
Left side	20	QPSK 1_53	166800/834	100%	0.090	0.060	-0.04	22.41	21.00	0.723	0.065	22.3
Top side	20	QPSK 1_53	166800/834	100%	0.218	0.131	0.06	22.41	21.00	0.723	0.158	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	20	QPSK 50_28	166800/834	100%	0.177	0.115	0.05	22.35	21.00	0.733	0.130	22.3
Back side	20	QPSK 50_28	166800/834	100%	0.344	0.203	0.14	22.35	21.00	0.733	0.252	22.3
Left side	20	QPSK 50_28	166800/834	100%	0.087	0.057	0.15	22.35	21.00	0.733	0.064	22.3
Top side	20	QPSK 50_28	166800/834	100%	0.217	0.130	-0.19	22.35	21.00	0.733	0.159	22.3
Ant31 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.095	0.067	-0.07	23.45	24.90	1.396	0.133	22.3
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.067	0.048	-0.15	23.45	24.90	1.396	0.094	22.3
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.057	0.041	0.09	23.45	24.90	1.396	0.080	22.3
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.003	0.002	-0.06	23.45	24.90	1.396	0.004	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	167800/839	100%	0.089	0.062	-0.07	23.43	24.90	1.403	0.125	22.3
Left tilted	20	QPSK 50_28	167800/839	100%	0.063	0.046	0.00	23.43	24.90	1.403	0.088	22.3
Right cheek	20	QPSK 50_28	167800/839	100%	0.058	0.041	0.09	23.43	24.90	1.403	0.081	22.3
Right tilted	20	QPSK 50_28	167800/839	100%	0.004	0.001	0.15	23.43	24.90	1.403	0.006	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_53	167300/836.5	100%	0.073	0.053	0.08	23.45	24.90	1.396	0.102	22.3
Back side	20	QPSK 1_53	167300/836.5	100%	0.108	0.065	0.06	23.45	24.90	1.396	0.151	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	167800/839	100%	0.075	0.053	0.03	23.43	24.90	1.403	0.105	22.3
Back side	20	QPSK 50_28	167800/839	100%	0.110	0.066	-0.09	23.43	24.90	1.403	0.154	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_53	167300/836.5	100%	0.122	0.068	-0.09	22.98	24.40	1.387	0.169	22.3
Back side	20	QPSK 1_53	167300/836.5	100%	0.185	0.107	-0.14	22.98	24.40	1.387	0.257	22.3
Left side	20	QPSK 1_53	167300/836.5	100%	0.089	0.059	0.14	22.98	24.40	1.387	0.123	22.3
Right side	20	QPSK 1_53	167300/836.5	100%	0.051	0.034	0.16	22.98	24.40	1.387	0.071	22.3



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Bottom side	20	QPSK 1_53	167300/836.5	100%	0.183	0.095	-0.18	22.98	24.40	1.387	0.254	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	167800/839	100%	0.130	0.075	0.11	22.88	24.40	1.419	0.184	22.3
Back side	20	QPSK 50_28	167800/839	100%	0.230	0.142	-0.03	22.88	24.40	1.419	0.326	22.3
Left side	20	QPSK 50_28	167800/839	100%	0.100	0.066	-0.19	22.88	24.40	1.419	0.142	22.3
Right side	20	QPSK 50_28	167800/839	100%	0.051	0.034	0.14	22.88	24.40	1.419	0.072	22.3
Bottom side	20	QPSK 50_28	167800/839	100%	0.188	0.098	0.08	22.88	24.40	1.419	0.267	22.3

Table 24 : SAR of NR Band n5 for Head, Body and Hotspot.



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8.2.15 SAR Result of NR Band n7

N7 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.150	0.079	0.11	18.30	19.50	1.318	0.198	22.3
Left tilted	50	QPSK 1_135	507000/2535	100%	0.121	0.059	-0.03	18.30	19.50	1.318	0.160	22.3
Right cheek	50	QPSK 1_135	507000/2535	100%	0.464	0.214	0.03	18.30	19.50	1.318	0.612	22.3
Right tilted	50	QPSK 1_135	507000/2535	100%	0.258	0.120	-0.15	18.30	19.50	1.318	0.340	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.166	0.078	0.06	18.39	19.50	1.291	0.214	22.3
Left tilted	50	QPSK 135_67	509000/2545	100%	0.142	0.063	-0.15	18.39	19.50	1.291	0.183	22.3
Right cheek	50	QPSK 135_67	509000/2545	100%	0.467	0.211	0.02	18.39	19.50	1.291	0.603	22.3
Right tilted	50	QPSK 135_67	509000/2545	100%	0.261	0.120	-0.17	18.39	19.50	1.291	0.337	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	50	QPSK 1_268	509000/2545	100%	0.113	0.057	-0.02	20.36	21.50	1.300	0.147	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.185	0.087	0.03	20.36	21.50	1.300	0.241	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	50	QPSK 135_67	509000/2545	100%	0.134	0.066	0.05	20.42	21.50	1.282	0.172	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.206	0.096	0.04	20.42	21.50	1.282	0.264	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	50	QPSK 1_268	509000/2545	100%	0.122	0.057	0.03	17.79	19.00	1.321	0.161	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.258	0.113	-0.15	17.79	19.00	1.321	0.341	22.3
Left side	50	QPSK 1_268	509000/2545	100%	0.147	0.068	0.05	17.79	19.00	1.321	0.194	22.3
Top side	50	QPSK 1_268	509000/2545	100%	0.060	0.029	0.00	17.79	19.00	1.321	0.079	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	50	QPSK 135_67	509000/2545	100%	0.133	0.065	0.01	17.87	19.00	1.297	0.173	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.266	0.114	-0.18	17.87	19.00	1.297	0.345	22.3
Left side	50	QPSK 135_67	509000/2545	100%	0.145	0.066	0.04	17.87	19.00	1.297	0.188	22.3
Top side	50	QPSK 135_67	509000/2545	100%	0.047	0.022	0.05	17.87	19.00	1.297	0.061	22.3
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	50	QPSK 1_268	509000/2545	100%	0.185	0.102	0.05	17.39	18.60	1.321	0.244	22.3
Left tilted	50	QPSK 1_268	509000/2545	100%	0.250	0.127	0.02	17.39	18.60	1.321	0.330	22.3
Right cheek	50	QPSK 1_268	509000/2545	100%	0.414	0.215	0.06	17.39	18.60	1.321	0.547	22.3
Right tilted	50	QPSK 1_268	509000/2545	100%	0.421	0.195	0.02	17.39	18.60	1.321	0.556	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.222	0.124	0.04	17.45	18.60	1.303	0.289	22.3



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Left tilted	50	QPSK 135_67	509000/2545	100%	0.314	0.157	0.01	17.45	18.60	1.303	0.409	22.3
Right cheek	50	QPSK 135_67	509000/2545	100%	0.453	0.236	0.06	17.45	18.60	1.303	0.590	22.3
Right tilted	50	QPSK 135_67	509000/2545	100%	0.485	0.232	0.08	17.45	18.60	1.303	0.632	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	50	QPSK 1_268	509000/2545	100%	0.170	0.092	0.06	20.96	22.10	1.300	0.221	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.417	0.208	-0.07	20.96	22.10	1.300	0.542	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	50	QPSK 135_67	509000/2545	100%	0.184	0.099	0.01	21.02	22.10	1.282	0.236	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.458	0.227	0.02	21.02	22.10	1.282	0.587	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6 with ENDC												
Front side	50	QPSK 1_268	509000/2545	100%	0.170	0.092	0.06	20.96	19.60	0.731	0.124	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.417	0.208	-0.07	20.96	19.60	0.731	0.305	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6 with ENDC												
Front side	50	QPSK 135_67	509000/2545	100%	0.184	0.099	0.01	21.02	19.60	0.721	0.133	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.458	0.227	0.02	21.02	19.60	0.721	0.330	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	50	QPSK 1_268	509000/2545	100%	0.147	0.077	0.03	18.45	19.60	1.303	0.192	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.385	0.179	-0.02	18.45	19.60	1.303	0.502	22.3
Left side	50	QPSK 1_268	509000/2545	100%	0.102	0.053	-0.02	18.45	19.60	1.303	0.133	22.3
Top side	50	QPSK 1_268	509000/2545	100%	0.411	0.190	0.03	18.45	19.60	1.303	0.536	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	50	QPSK 135_67	509000/2545	100%	0.146	0.077	0.07	18.46	19.60	1.300	0.190	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.401	0.187	0.00	18.46	19.60	1.300	0.521	22.3
Left side	50	QPSK 135_67	509000/2545	100%	0.101	0.052	0.02	18.46	19.60	1.300	0.131	22.3
Top side	50	QPSK 135_67	509000/2545	100%	0.434	0.199	0.08	18.46	19.60	1.300	0.564	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	50	QPSK 1_268	509000/2545	100%	0.147	0.077	0.03	18.45	16.60	0.653	0.096	22.3
Back side	50	QPSK 1_268	509000/2545	100%	0.385	0.179	-0.02	18.45	16.60	0.653	0.251	22.3
Left side	50	QPSK 1_268	509000/2545	100%	0.102	0.053	-0.02	18.45	16.60	0.653	0.067	22.3
Top side	50	QPSK 1_268	509000/2545	100%	0.411	0.190	0.03	18.45	16.60	0.653	0.268	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	50	QPSK 135_67	509000/2545	100%	0.146	0.077	0.07	18.46	16.60	0.652	0.095	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.401	0.187	0.00	18.46	16.60	0.652	0.261	22.3
Left side	50	QPSK 135_67	509000/2545	100%	0.101	0.052	0.02	18.46	16.60	0.652	0.066	22.3
Top side	50	QPSK 135_67	509000/2545	100%	0.434	0.199	0.08	18.46	16.60	0.652	0.283	22.3
Ant31 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	50	QPSK 1_268	509000/2545	100%	0.154	0.085	0.09	23.09	24.20	1.291	0.199	22.5
Left tilted	50	QPSK 1_268	509000/2545	100%	0.086	0.042	0.03	23.09	24.20	1.291	0.111	22.5
Right cheek	50	QPSK 1_268	509000/2545	100%	0.272	0.140	-0.04	23.09	24.20	1.291	0.351	22.5
Right tilted	50	QPSK 1_268	509000/2545	100%	0.189	0.083	0.07	23.09	24.20	1.291	0.244	22.5



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Head Test Data (50%RB) DSI 5												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.158	0.087	0.02	23.16	24.20	1.271	0.201	22.5
Left tilted	50	QPSK 135_67	509000/2545	100%	0.089	0.044	-0.06	23.16	24.20	1.271	0.113	22.5
Right cheek	50	QPSK 135_67	509000/2545	100%	0.281	0.145	0.05	23.16	24.20	1.271	0.357	22.5
Right tilted	50	QPSK 135_67	509000/2545	100%	0.195	0.086	0.12	23.16	24.20	1.271	0.248	22.5
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	50	QPSK 1_268	509000/2545	100%	0.129	0.074	0.11	23.09	24.20	1.291	0.167	22.5
Back side	50	QPSK 1_268	509000/2545	100%	0.266	0.134	-0.08	23.09	24.20	1.291	0.343	22.5
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	50	QPSK 135_67	509000/2545	100%	0.136	0.078	0.05	23.16	24.20	1.271	0.173	22.5
Back side	50	QPSK 135_67	509000/2545	100%	0.281	0.141	0.06	23.16	24.20	1.271	0.357	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	50	QPSK 1_268	507000/2535	100%	0.124	0.069	0.06	20.54	21.70	1.306	0.162	22.5
Back side	50	QPSK 1_268	507000/2535	100%	0.307	0.147	-0.15	20.54	21.70	1.306	0.401	22.5
Left side	50	QPSK 1_268	507000/2535	100%	0.017	0.008	0.04	20.54	21.70	1.306	0.022	22.5
Right side	50	QPSK 1_268	507000/2535	100%	0.192	0.100	0.07	20.54	21.70	1.306	0.251	22.5
Bottom side	50	QPSK 1_268	507000/2535	100%	0.173	0.089	0.02	20.54	21.70	1.306	0.226	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	50	QPSK 135_67	507000/2535	100%	0.131	0.073	0.05	20.65	21.70	1.274	0.167	22.5
Back side	50	QPSK 135_67	507000/2535	100%	0.325	0.156	0.03	20.65	21.70	1.274	0.414	22.5
Left side	50	QPSK 135_67	507000/2535	100%	0.018	0.008	0.01	20.65	21.70	1.274	0.023	22.5
Right side	50	QPSK 135_67	507000/2535	100%	0.203	0.106	-0.06	20.65	21.70	1.274	0.259	22.5
Bottom side	50	QPSK 135_67	507000/2535	100%	0.183	0.094	0.01	20.65	21.70	1.274	0.233	22.5

Table 25 : SAR of NR Band n7 for Head, Body and Hotspot.



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8.2.16 SAR Result of NR Band n26

N26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_1	164800/824	100%	0.344	0.225	0.00	20.05	21.50	1.396	0.480	22.3
Left tilted	20	QPSK 1_1	164800/824	100%	0.359	0.215	0.05	20.05	21.50	1.396	0.501	22.3
Right cheek	20	QPSK 1_1	164800/824	100%	0.484	0.281	-0.08	20.05	21.50	1.396	0.676	22.3
Right tilted	20	QPSK 1_1	164800/824	100%	0.444	0.230	-0.14	20.05	21.50	1.396	0.620	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.389	0.257	-0.03	20.09	21.50	1.384	0.538	22.3
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.400	0.242	-0.01	20.09	21.50	1.384	0.553	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.510	0.331	-0.01	20.09	21.50	1.384	0.706	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.472	0.260	-0.05	20.09	21.50	1.384	0.653	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_1	164800/824	100%	0.109	0.076	0.13	23.02	24.50	1.406	0.153	22.3
Back side	20	QPSK 1_1	164800/824	100%	0.184	0.127	-0.11	23.02	24.50	1.406	0.259	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	166300/831.5	100%	0.121	0.083	-0.07	23.04	24.50	1.400	0.169	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.234	0.171	0.11	23.04	24.50	1.400	0.328	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_53	166300/831.5	100%	0.175	0.114	-0.08	22.56	24.00	1.393	0.244	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.332	0.194	0.08	22.56	24.00	1.393	0.463	22.3
Left side	20	QPSK 1_53	166300/831.5	100%	0.091	0.060	0.02	22.56	24.00	1.393	0.127	22.3
Top side	20	QPSK 1_53	166300/831.5	100%	0.218	0.013	0.09	22.56	24.00	1.393	0.304	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	164800/824	100%	0.161	0.106	-0.14	22.54	24.00	1.400	0.225	22.3
Back side	20	QPSK 50_28	164800/824	100%	0.261	0.175	0.15	22.54	24.00	1.400	0.365	22.3
Left side	20	QPSK 50_28	164800/824	100%	0.094	0.062	-0.03	22.54	24.00	1.400	0.132	22.3
Top side	20	QPSK 50_28	164800/824	100%	0.216	0.129	-0.09	22.54	24.00	1.400	0.302	22.3
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.079	0.056	-0.06	23.04	24.50	1.400	0.111	22.3
Left tilted	20	QPSK 1_53	166300/831.5	100%	0.055	0.040	0.02	23.04	24.50	1.400	0.077	22.3
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.046	0.033	-0.03	23.04	24.50	1.400	0.064	22.3
Right tilted	20	QPSK 1_53	166300/831.5	100%	0.005	0.004	0.00	23.04	24.50	1.400	0.007	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.078	0.055	0.16	22.98	24.50	1.419	0.111	22.3



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Left tilted	20	QPSK 50_28	166300/831.5	100%	0.054	0.040	0.11	22.98	24.50	1.419	0.077	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.045	0.032	-0.17	22.98	24.50	1.419	0.064	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.003	0.001	-0.18	22.98	24.50	1.419	0.004	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	20	QPSK 1_53	166300/831.5	100%	0.060	0.043	0.14	23.04	24.50	1.400	0.084	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.091	0.055	0.13	23.04	24.50	1.400	0.127	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	20	QPSK 50_28	166300/831.5	100%	0.062	0.044	0.03	22.98	24.50	1.419	0.088	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.091	0.054	-0.16	22.98	24.50	1.419	0.129	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	20	QPSK 1_53	166300/831.5	100%	0.117	0.067	-0.17	23.04	24.50	1.400	0.164	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.172	0.102	-0.17	23.04	24.50	1.400	0.241	22.3
Left side	20	QPSK 1_53	166300/831.5	100%	0.085	0.056	-0.05	23.04	24.50	1.400	0.119	22.3
Right side	20	QPSK 1_53	166300/831.5	100%	0.053	0.035	0.07	23.04	24.50	1.400	0.074	22.3
Bottom side	20	QPSK 1_53	166300/831.5	100%	0.160	0.086	0.19	23.04	24.50	1.400	0.224	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	20	QPSK 50_28	166300/831.5	100%	0.114	0.067	0.13	22.98	24.50	1.419	0.162	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.173	0.102	0.09	22.98	24.50	1.419	0.245	22.3
Left side	20	QPSK 50_28	166300/831.5	100%	0.085	0.056	0.01	22.98	24.50	1.419	0.121	22.3
Right side	20	QPSK 50_28	166300/831.5	100%	0.054	0.036	0.08	22.98	24.50	1.419	0.077	22.3
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.163	0.087	-0.18	22.98	24.50	1.419	0.231	22.3

Table 26 : SAR of NR Band n26 for Head, Body and Hotspot.



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8.2.17 SAR Result of NR Band n38

N38 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	40	QPSK 1_104	519000/2595	100%	0.140	0.077	-0.12	19.09	20.30	1.321	0.185	22.3
Left tilted	40	QPSK 1_104	519000/2595	100%	0.083	0.042	0.09	19.09	20.30	1.321	0.110	22.3
Right cheek	40	QPSK 1_104	519000/2595	100%	0.365	0.156	0.04	19.09	20.30	1.321	0.482	22.3
Right tilted	40	QPSK 1_104	519000/2595	100%	0.179	0.078	0.06	19.09	20.30	1.321	0.237	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 50_28	519000/2595	100%	0.157	0.086	-0.05	19.19	20.30	1.291	0.203	22.3
Left tilted	40	QPSK 50_28	519000/2595	100%	0.111	0.057	0.19	19.19	20.30	1.291	0.143	22.3
Right cheek	40	QPSK 50_28	519000/2595	100%	0.412	0.173	0.03	19.19	20.30	1.291	0.532	22.3
Right tilted	40	QPSK 50_28	519000/2595	100%	0.193	0.091	-0.02	19.19	20.30	1.291	0.249	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_104	519000/2595	100%	0.058	0.031	0.01	19.09	20.30	1.321	0.077	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.152	0.073	0.08	19.09	20.30	1.321	0.201	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 50_28	519000/2595	100%	0.065	0.033	-0.02	19.19	20.30	1.291	0.084	22.3
Back side	40	QPSK 50_28	519000/2595	100%	0.169	0.081	-0.18	19.19	20.30	1.291	0.218	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_104	519000/2595	100%	0.064	0.032	0.15	16.59	17.80	1.321	0.085	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.186	0.087	-0.09	16.59	17.80	1.321	0.246	22.3
Left side	40	QPSK 1_104	519000/2595	100%	0.128	0.058	0.02	16.59	17.80	1.321	0.169	22.3
Top side	40	QPSK 1_104	519000/2595	100%	0.005	0.002	0.11	16.59	17.80	1.321	0.007	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 50_28	518000/2590	100%	0.075	0.036	-0.11	16.64	17.80	1.306	0.098	22.3
Back side	40	QPSK 50_28	518000/2590	100%	0.212	0.099	0.15	16.64	17.80	1.306	0.277	22.3
Left side	40	QPSK 50_28	518000/2590	100%	0.141	0.064	-0.10	16.64	17.80	1.306	0.184	22.3
Top side	40	QPSK 50_28	518000/2590	100%	0.004	0.003	0.10	16.64	17.80	1.306	0.005	22.3
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	40	QPSK 1_1	519000/2595	100%	0.205	0.108	0.10	16.30	17.80	1.413	0.290	22.3
Left tilted	40	QPSK 1_1	519000/2595	100%	0.259	0.130	0.15	16.30	17.80	1.413	0.366	22.3
Right cheek	40	QPSK 1_1	519000/2595	100%	0.483	0.249	0.09	16.30	17.80	1.413	0.682	22.3
Right tilted	40	QPSK 1_1	519000/2595	100%	0.560	0.260	-0.13	16.30	17.80	1.413	0.791	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 50_28	519000/2595	100%	0.216	0.115	-0.12	16.33	17.80	1.403	0.303	22.3
Left tilted	40	QPSK 50_28	519000/2595	100%	0.280	0.140	0.11	16.33	17.80	1.403	0.393	22.3



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Right cheek	40	QPSK 50_28	519000/2595	100%	0.546	0.281	-0.10	16.33	17.80	1.403	0.766	22.3
Right tilted	40	QPSK 50_28	519000/2595	100%	0.635	0.295	0.07	16.33	17.80	1.403	0.891	22.3
Right tilted	40	QPSK 50_28	518000/2590	100%	0.610	0.286	-0.03	16.23	17.80	1.435	0.876	22.3
Right tilted	40	QPSK 50_28	520000/2600	100%	0.615	0.291	0.07	16.28	17.80	1.419	0.873	22.3
Head Test Data (100%RB) DSI 5												
Right tilted	40	QPSK 100_0	520000/2600	100%	0.480	0.228	0.18	15.32	16.80	1.406	0.675	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_104	519000/2595	100%	0.240	0.130	0.15	21.35	22.80	1.396	0.335	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.387	0.184	-0.03	21.35	22.80	1.396	0.540	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 50_28	519000/2595	100%	0.231	0.125	-0.16	21.33	22.80	1.403	0.324	22.3
Back side	40	QPSK 50_28	519000/2595	100%	0.396	0.197	-0.03	21.33	22.80	1.403	0.556	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_104	519000/2595	100%	0.164	0.086	-0.18	17.80	19.30	1.413	0.232	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.335	0.146	-0.03	17.80	19.30	1.413	0.473	22.3
Left side	40	QPSK 1_104	519000/2595	100%	0.173	0.088	0.16	17.80	19.30	1.413	0.244	22.3
Top side	40	QPSK 1_104	519000/2595	100%	0.357	0.153	0.10	17.80	19.30	1.413	0.504	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 50_28	519000/2595	100%	0.171	0.088	0.13	17.82	19.30	1.406	0.240	22.3
Back side	40	QPSK 50_28	519000/2595	100%	0.367	0.158	0.00	17.82	19.30	1.406	0.516	22.3
Left side	40	QPSK 50_28	519000/2595	100%	0.160	0.082	0.03	17.82	19.30	1.406	0.225	22.3
Top side	40	QPSK 50_28	519000/2595	100%	0.395	0.180	-0.06	17.82	19.30	1.406	0.555	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	40	QPSK 1_104	519000/2595	100%	0.164	0.086	-0.18	17.80	16.30	0.708	0.116	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.335	0.146	-0.03	17.80	16.30	0.708	0.237	22.3
Left side	40	QPSK 1_104	519000/2595	100%	0.173	0.088	0.16	17.80	16.30	0.708	0.122	22.3
Top side	40	QPSK 1_104	519000/2595	100%	0.357	0.153	0.10	17.80	16.30	0.708	0.253	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	40	QPSK 50_28	519000/2595	100%	0.171	0.088	0.13	17.82	16.30	0.705	0.121	22.3
Back side	40	QPSK 50_28	519000/2595	100%	0.367	0.158	0.00	17.82	16.30	0.705	0.259	22.3
Left side	40	QPSK 50_28	519000/2595	100%	0.160	0.082	0.03	17.82	16.30	0.705	0.113	22.3
Top side	40	QPSK 50_28	519000/2595	100%	0.395	0.180	-0.06	17.82	16.30	0.705	0.278	22.3
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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 (Separate 0mm 1RB) DSI 6												
Top side	40	QPSK 1_104	519000/2595	100%	2.410	0.947	-0.05	21.35	22.80	1.396	1.322	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI 6												
Top side	40	QPSK 50_28	519000/2595	100%	2.810	1.110	0.03	21.33	22.80	1.403	1.557	22.3
Ant31 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	40	QPSK 1_104	519000/2595	100%	0.104	0.059	0.06	23.44	25.00	1.432	0.149	22.3



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Left tilted	40	QPSK 1_104	519000/2595	100%	0.081	0.040	-0.01	23.44	25.00	1.432	0.116	22.3
Right cheek	40	QPSK 1_104	519000/2595	100%	0.189	0.102	-0.08	23.44	25.00	1.432	0.271	22.3
Right tilted	40	QPSK 1_104	519000/2595	100%	0.067	0.036	0.14	23.44	25.00	1.432	0.096	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 50_28	519000/2595	100%	0.107	0.061	-0.19	23.41	25.00	1.442	0.154	22.3
Left tilted	40	QPSK 50_28	519000/2595	100%	0.084	0.042	0.00	23.41	25.00	1.442	0.121	22.3
Right cheek	40	QPSK 50_28	519000/2595	100%	0.204	0.112	0.13	23.41	25.00	1.442	0.294	22.3
Right tilted	40	QPSK 50_28	519000/2595	100%	0.075	0.041	-0.10	23.41	25.00	1.442	0.108	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_53	519000/2595	100%	0.160	0.093	-0.12	22.40	24.00	1.445	0.231	22.3
Back side	40	QPSK 1_53	519000/2595	100%	0.196	0.097	0.05	22.40	24.00	1.445	0.283	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 50_28	519000/2595	100%	0.163	0.094	0.05	22.39	24.00	1.449	0.236	22.3
Back side	40	QPSK 50_28	519000/2595	100%	0.195	0.099	-0.07	22.39	24.00	1.449	0.283	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_104	519000/2595	100%	0.174	0.098	0.14	20.38	22.00	1.452	0.253	22.3
Back side	40	QPSK 1_104	519000/2595	100%	0.270	0.128	-0.14	20.38	22.00	1.452	0.392	22.3
Left side	40	QPSK 1_104	519000/2595	100%	0.003	0.001	0.07	20.38	22.00	1.452	0.004	22.3
Right side	40	QPSK 1_104	519000/2595	100%	0.146	0.078	0.12	20.38	22.00	1.452	0.212	22.3
Bottom side	40	QPSK 1_104	519000/2595	100%	0.189	0.090	0.04	20.38	22.00	1.452	0.274	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 50_28	520000/2600	100%	0.188	0.106	0.02	20.37	22.00	1.455	0.274	22.3
Back side	40	QPSK 50_28	520000/2600	100%	0.291	0.137	0.11	20.37	22.00	1.455	0.424	22.3
Left side	40	QPSK 50_28	520000/2600	100%	0.005	0.002	0.12	20.37	22.00	1.455	0.007	22.3
Right side	40	QPSK 50_28	520000/2600	100%	0.153	0.081	0.00	20.37	22.00	1.455	0.223	22.3
Bottom side	40	QPSK 50_28	520000/2600	100%	0.195	0.094	-0.12	20.37	22.00	1.455	0.284	22.3

Table 27 : SAR of NR Band n38 for Head, Body ,Hotspot and Product specific 10g SAR.



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8.2.18 SAR Result of NR Band n41

N41 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.119	0.065	0.11	17.85	19.00	1.303	0.155	22.3
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.080	0.043	-0.17	17.85	19.00	1.303	0.104	22.3
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.271	0.113	0.04	17.85	19.00	1.303	0.353	22.3
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.181	0.086	0.09	17.85	19.00	1.303	0.236	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.130	0.074	0.16	17.95	19.00	1.274	0.166	22.3
Left tilted	100	QPSK 135_69	509202/2546.01	100%	0.127	0.069	-0.04	17.95	19.00	1.274	0.162	22.3
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.330	0.143	-0.04	17.95	19.00	1.274	0.420	22.3
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.168	0.081	0.03	17.95	19.00	1.274	0.214	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.066	0.035	0.06	19.36	20.50	1.300	0.086	22.3
Back side	100	QPSK 1_137	518598/2592.99	100%	0.183	0.085	0.05	19.36	20.50	1.300	0.238	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.084	0.044	0.08	19.52	20.50	1.253	0.105	22.3
Back side	100	QPSK 135_69	509202/2546.01	100%	0.240	0.113	0.12	19.52	20.50	1.253	0.301	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	509202/2546.01	100%	0.093	0.047	-0.16	16.83	18.00	1.309	0.122	22.3
Back side	100	QPSK 1_137	509202/2546.01	100%	0.279	0.128	0.04	16.83	18.00	1.309	0.365	22.3
Left side	100	QPSK 1_137	509202/2546.01	100%	0.152	0.070	-0.02	16.83	18.00	1.309	0.199	22.3
Top side	100	QPSK 1_137	509202/2546.01	100%	0.004	0.003	0.13	16.83	18.00	1.309	0.005	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.091	0.046	0.06	17.02	18.00	1.253	0.114	22.3
Back side	100	QPSK 135_69	509202/2546.01	100%	0.285	0.132	-0.13	17.02	18.00	1.253	0.357	22.3
Left side	100	QPSK 135_69	509202/2546.01	100%	0.160	0.073	0.12	17.02	18.00	1.253	0.201	22.3
Top side	100	QPSK 135_69	509202/2546.01	100%	0.003	0.001	0.16	17.02	18.00	1.253	0.004	22.3
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_271	523302/2616.51	100%	0.222	0.121	0.01	17.49	18.50	1.262	0.280	22.3
Left tilted	100	QPSK 1_271	523302/2616.51	100%	0.237	0.125	0.13	17.49	18.50	1.262	0.299	22.3
Right cheek	100	QPSK 1_271	523302/2616.51	100%	0.562	0.287	0.07	17.49	18.50	1.262	0.709	22.3
Right tilted	100	QPSK 1_271	523302/2616.51	100%	0.527	0.259	0.17	17.49	18.50	1.262	0.665	22.3
Right cheek	100	QPSK 1_271	509202/2546.01	100%	0.598	0.314	-0.15	17.48	18.50	1.265	0.756	22.3
Right cheek	100	QPSK 1_271	513900/2569.5	100%	0.621	0.323	-0.03	17.42	18.50	1.282	0.796	22.3
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.581	0.300	-0.02	17.45	18.50	1.274	0.740	22.3



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Right cheek	100	QPSK 1_137	528000/2640	100%	0.602	0.309	-0.05	17.45	18.50	1.274	0.767	22.3
Right tilted	100	QPSK 1_271	509202/2546.01	100%	0.711	0.338	0.08	17.48	18.50	1.265	0.899	22.3
Right tilted	100	QPSK 1_271	513900/2569.5	100%	0.708	0.336	-0.04	17.42	18.50	1.282	0.908	22.3
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.624	0.306	0.16	17.45	18.50	1.274	0.795	22.3
Right tilted	100	QPSK 1_137	528000/2640	100%	0.647	0.316	-0.11	17.45	18.50	1.274	0.824	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.258	0.135	-0.05	17.60	18.50	1.230	0.317	22.3
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.345	0.172	0.04	17.60	18.50	1.230	0.424	22.3
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.618	0.318	-0.12	17.60	18.50	1.230	0.760	22.3
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.718	0.332	0.01	17.60	18.50	1.230	0.883	22.3
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.507	0.254	-0.17	17.55	18.50	1.245	0.631	22.3
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.627	0.327	0.18	17.48	18.50	1.265	0.793	22.3
Right cheek	100	QPSK 135_69	523302/2616.51	100%	0.633	0.318	0.04	17.54	18.50	1.247	0.790	22.3
Right cheek	100	QPSK 135_69	528000/2640	100%	0.627	0.322	0.17	17.46	18.50	1.271	0.797	22.3
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.658	0.297	0.13	17.55	18.50	1.245	0.819	22.3
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.735	0.341	0.06	17.48	18.50	1.265	0.930	22.3
Right tilted	100	QPSK 135_69	523302/2616.51	100%	0.745	0.354	0.01	17.54	18.50	1.247	0.929	22.3
Right tilted	100	QPSK 135_69	528000/2640	100%	0.678	0.331	-0.06	17.46	18.50	1.271	0.861	22.3
Head Test Data (100%RB) DSI 5												
Right tilted	100	QPSK 270_0	528000/2640	100%	0.542	0.264	0.12	16.58	17.50	1.236	0.670	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	528000/2640	100%	0.236	0.130	0.14	21.55	22.50	1.245	0.294	22.3
Back side	100	QPSK 1_137	528000/2640	100%	0.485	0.214	0.03	21.55	22.50	1.245	0.604	22.3
Back side	100	QPSK 1_271	509202/2546.01	100%	0.496	0.244	-0.10	21.51	22.50	1.256	0.623	22.3
Back side	100	QPSK 1_271	513900/2569.5	100%	0.491	0.239	-0.07	21.51	22.50	1.256	0.617	22.3
Back side	100	QPSK 1_271	518598/2592.99	100%	0.441	0.203	0.05	21.50	22.50	1.259	0.555	22.3
Back side	100	QPSK 1_271	523302/2616.51	100%	0.393	0.196	0.02	21.50	22.50	1.259	0.495	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.212	0.115	-0.18	21.63	22.50	1.222	0.259	22.3
Back side	100	QPSK 135_69	513900/2569.5	100%	0.489	0.218	0.00	21.63	22.50	1.222	0.597	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_271	523302/2616.51	100%	0.155	0.084	0.02	17.98	19.00	1.265	0.196	22.3
Back side	100	QPSK 1_271	523302/2616.51	100%	0.285	0.128	-0.02	17.98	19.00	1.265	0.360	22.3
Left side	100	QPSK 1_271	523302/2616.51	100%	0.189	0.095	0.15	17.98	19.00	1.265	0.239	22.3
Top side	100	QPSK 1_271	523302/2616.51	100%	0.338	0.154	-0.16	17.98	19.00	1.265	0.427	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.164	0.084	-0.08	18.11	19.00	1.227	0.201	22.3
Back side	100	QPSK 135_69	513900/2569.5	100%	0.356	0.162	-0.15	18.11	19.00	1.227	0.437	22.3
Left side	100	QPSK 135_69	513900/2569.5	100%	0.129	0.068	0.03	18.11	19.00	1.227	0.158	22.3
Top side	100	QPSK 135_69	513900/2569.5	100%	0.380	0.173	-0.01	18.11	19.00	1.227	0.466	22.3
Ant31 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)



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Head Test Data (1RB) DSI 5												
Left cheek	100	QPSK 1_271	528000/2640	100%	0.179	0.100	0.04	25.26	26.20	1.242	0.222	22.3
Left tilted	100	QPSK 1_271	528000/2640	100%	0.113	0.058	0.11	25.26	26.20	1.242	0.140	22.3
Right cheek	100	QPSK 1_271	528000/2640	100%	0.475	0.258	0.01	25.26	26.20	1.242	0.590	22.3
Right tilted	100	QPSK 1_271	528000/2640	100%	0.083	0.047	0.03	25.26	26.20	1.242	0.103	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	528000/2640	100%	0.172	0.096	0.15	25.27	26.20	1.239	0.213	22.3
Left tilted	100	QPSK 135_69	528000/2640	100%	0.108	0.055	-0.15	25.27	26.20	1.239	0.134	22.3
Right cheek	100	QPSK 135_69	528000/2640	100%	0.342	0.188	0.09	25.27	26.20	1.239	0.424	22.3
Right tilted	100	QPSK 135_69	528000/2640	100%	0.081	0.045	0.12	25.27	26.20	1.239	0.100	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_271	528000/2640	100%	0.172	0.096	0.14	22.26	23.20	1.242	0.214	22.3
Back side	100	QPSK 1_271	528000/2640	100%	0.309	0.143	0.17	22.26	23.20	1.242	0.384	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	523302/2616.51	100%	0.160	0.092	0.01	22.21	23.20	1.256	0.201	22.3
Back side	100	QPSK 135_69	523302/2616.51	100%	0.192	0.097	0.17	22.21	23.20	1.256	0.241	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_271	528000/2640	100%	0.162	0.090	-0.14	19.72	20.70	1.253	0.203	22.3
Back side	100	QPSK 1_271	528000/2640	100%	0.339	0.152	0.15	19.72	20.70	1.253	0.425	22.3
Left side	100	QPSK 1_271	528000/2640	100%	0.006	0.004	0.13	19.72	20.70	1.253	0.008	22.3
Right side	100	QPSK 1_271	528000/2640	100%	0.159	0.086	-0.11	19.72	20.70	1.253	0.199	22.3
Bottom side	100	QPSK 1_271	528000/2640	100%	0.284	0.125	0.11	19.72	20.70	1.253	0.356	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	528000/2640	100%	0.158	0.088	-0.12	19.75	20.70	1.245	0.197	22.3
Back side	100	QPSK 135_69	528000/2640	100%	0.266	0.115	-0.15	19.75	20.70	1.245	0.331	22.3
Left side	100	QPSK 135_69	528000/2640	100%	0.005	0.003	-0.07	19.75	20.70	1.245	0.006	22.3
Right side	100	QPSK 135_69	528000/2640	100%	0.139	0.074	0.09	19.75	20.70	1.245	0.173	22.3
Bottom side	100	QPSK 135_69	528000/2640	100%	0.189	0.091	0.00	19.75	20.70	1.245	0.235	22.3

Table 28 : SAR of NR Band n41 for Head, Body and Hotspot.

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8.2.19 SAR Result of NR Band n66

N66 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI5												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.300	0.192	0.03	20.41	21.50	1.285	0.386	22.3
Left tilted	40	QPSK 1_108	349000/1745	100%	0.231	0.136	-0.06	20.41	21.50	1.285	0.297	22.3
Right cheek	40	QPSK 1_108	349000/1745	100%	0.703	0.360	0.01	20.41	21.50	1.285	0.904	22.3
Right tilted	40	QPSK 1_108	349000/1745	100%	0.234	0.135	0.18	20.41	21.50	1.285	0.301	22.3
Right cheek	40	QPSK 1_108	346000/1730	100%	0.642	0.349	0.08	20.28	21.50	1.324	0.850	22.3
Right cheek	40	QPSK 1_1	352000/1760	100%	0.682	0.380	-0.03	20.32	21.50	1.312	0.895	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.307	0.196	-0.08	20.40	21.50	1.288	0.395	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.233	0.138	0.14	20.40	21.50	1.288	0.300	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.676	0.334	-0.04	20.40	21.50	1.288	0.871	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.241	0.139	0.02	20.40	21.50	1.288	0.310	22.3
Right cheek	40	QPSK 108_54	346000/1730	100%	0.662	0.360	-0.07	20.33	21.50	1.309	0.867	22.3
Right cheek	40	QPSK 108_54	352000/1760	100%	0.694	0.349	0.05	20.28	21.50	1.324	0.919	22.3
Head Test Data (100%RB) DSI 5												
Right cheek	40	QPSK 216_0	349000/1745	100%	0.562	0.305	-0.07	19.37	20.50	1.297	0.729	22.3
Head Test Data(1RB) DSI 5 with ENDC												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.300	0.192	0.03	20.41	19.50	0.811	0.243	22.3
Left tilted	40	QPSK 1_108	349000/1745	100%	0.231	0.136	-0.06	20.41	19.50	0.811	0.187	22.3
Right cheek	40	QPSK 1_108	349000/1745	100%	0.703	0.360	0.01	20.41	19.50	0.811	0.570	22.3
Right tilted	40	QPSK 1_108	349000/1745	100%	0.234	0.135	0.18	20.41	19.50	0.811	0.190	22.3
Right cheek	40	QPSK 1_108	346000/1730	100%	0.642	0.349	0.08	20.28	19.50	0.836	0.536	22.3
Right cheek	40	QPSK 1_1	352000/1760	100%	0.682	0.380	-0.03	20.32	19.50	0.828	0.565	22.3
Head Test Data(50%RB) DSI 5 with ENDC												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.307	0.196	-0.08	20.40	19.50	0.813	0.250	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.233	0.138	0.14	20.40	19.50	0.813	0.189	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.676	0.334	-0.04	20.40	19.50	0.813	0.549	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.241	0.139	0.02	20.40	19.50	0.813	0.196	22.3
Right cheek	40	QPSK 108_54	346000/1730	100%	0.662	0.360	-0.07	20.33	19.50	0.826	0.547	22.3
Right cheek	40	QPSK 108_54	352000/1760	100%	0.694	0.349	0.05	20.28	19.50	0.836	0.580	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_108	349000/1745	100%	0.109	0.069	-0.06	20.93	22.00	1.279	0.139	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.155	0.087	-0.12	20.93	22.00	1.279	0.198	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 108_54	349000/1745	100%	0.106	0.067	0.15	20.94	22.00	1.276	0.135	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.159	0.090	-0.01	20.94	22.00	1.276	0.203	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												



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Front side	40	QPSK 1_108	349000/1745	100%	0.086	0.051	-0.16	17.91	19.00	1.285	0.111	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.171	0.091	-0.08	17.91	19.00	1.285	0.220	22.3
Left side	40	QPSK 1_108	349000/1745	100%	0.168	0.088	0.16	17.91	19.00	1.285	0.216	22.3
Top side	40	QPSK 1_108	349000/1745	100%	0.003	0.002	-0.09	17.91	19.00	1.285	0.004	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 108_54	349000/1745	100%	0.091	0.053	-0.12	17.85	19.00	1.303	0.119	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.177	0.094	-0.02	17.85	19.00	1.303	0.231	22.3
Left side	40	QPSK 108_54	349000/1745	100%	0.173	0.092	-0.07	17.85	19.00	1.303	0.225	22.3
Top side	40	QPSK 108_54	349000/1745	100%	0.004	0.002	0.07	17.85	19.00	1.303	0.005	22.3
Ant13 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	40	QPSK 1_1	349000/1745	100%	0.228	0.125	0.07	14.38	15.90	1.419	0.324	22.3
Left tilted	40	QPSK 1_1	349000/1745	100%	0.269	0.142	-0.02	14.38	15.90	1.419	0.382	22.3
Right cheek	40	QPSK 1_1	349000/1745	100%	0.377	0.185	-0.03	14.38	15.90	1.419	0.535	22.3
Right tilted	40	QPSK 1_1	349000/1745	100%	0.431	0.206	-0.05	14.38	15.90	1.419	0.612	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.265	0.144	0.11	14.45	15.90	1.396	0.370	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.315	0.165	0.12	14.45	15.90	1.396	0.440	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.437	0.215	-0.07	14.45	15.90	1.396	0.610	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.498	0.240	0.00	14.45	15.90	1.396	0.695	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_108	349000/1745	100%	0.153	0.084	-0.17	19.45	20.90	1.396	0.214	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.189	0.104	-0.16	19.45	20.90	1.396	0.264	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 108_54	349000/1745	100%	0.154	0.085	-0.14	19.48	20.90	1.387	0.214	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.193	0.105	0.13	19.48	20.90	1.387	0.268	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_214	352000/1760	100%	0.184	0.094	0.04	16.39	17.90	1.416	0.261	22.3
Back side	40	QPSK 1_214	352000/1760	100%	0.245	0.127	-0.13	16.39	17.90	1.416	0.347	22.3
Left side	40	QPSK 1_214	352000/1760	100%	0.004	0.003	0.01	16.39	17.90	1.416	0.006	22.3
Top side	40	QPSK 1_214	352000/1760	100%	0.306	0.148	0.15	16.39	17.90	1.416	0.433	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 108_54	346000/1730	100%	0.146	0.074	-0.08	16.43	17.90	1.403	0.205	22.3
Back side	40	QPSK 108_54	346000/1730	100%	0.171	0.089	-0.10	16.43	17.90	1.403	0.240	22.3
Left side	40	QPSK 108_54	346000/1730	100%	0.002	0.001	0.17	16.43	17.90	1.403	0.003	22.3
Top side	40	QPSK 108_54	346000/1730	100%	0.244	0.117	-0.18	16.43	17.90	1.403	0.342	22.3
Ant31 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	40	QPSK 1_108	352000/1760	100%	0.079	0.050	-0.16	22.71	24.50	1.510	0.119	22.3



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Left tilted	40	QPSK 1_108	352000/1760	100%	0.044	0.026	0.02	22.71	24.50	1.510	0.066	22.3
Right cheek	40	QPSK 1_108	352000/1760	100%	0.052	0.033	0.11	22.71	24.50	1.510	0.079	22.3
Right tilted	40	QPSK 1_108	352000/1760	100%	0.048	0.029	0.15	22.71	24.50	1.510	0.072	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	40	QPSK 108_54	346000/1730	100%	0.060	0.038	0.15	22.85	24.50	1.462	0.088	22.3
Left tilted	40	QPSK 108_54	346000/1730	100%	0.004	0.002	-0.17	22.85	24.50	1.462	0.006	22.3
Right cheek	40	QPSK 108_54	346000/1730	100%	0.003	0.001	0.00	22.85	24.50	1.462	0.004	22.3
Right tilted	40	QPSK 108_54	346000/1730	100%	0.002	0.001	-0.04	22.85	24.50	1.462	0.003	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	40	QPSK 1_108	352000/1760	100%	0.186	0.116	0.14	22.71	24.50	1.510	0.281	22.3
Back side	40	QPSK 1_108	352000/1760	100%	0.294	0.185	-0.03	22.71	24.50	1.510	0.444	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	40	QPSK 108_54	346000/1730	100%	0.177	0.109	-0.13	22.85	24.50	1.462	0.259	22.3
Back side	40	QPSK 108_54	346000/1730	100%	0.296	0.191	-0.04	22.85	24.50	1.462	0.433	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	40	QPSK 1_108	349000/1745	100%	0.190	0.114	-0.17	20.73	22.50	1.503	0.286	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.344	0.203	0.07	20.73	22.50	1.503	0.517	22.3
Left side	40	QPSK 1_108	349000/1745	100%	0.004	0.003	-0.11	20.73	22.50	1.503	0.006	22.3
Right side	40	QPSK 1_108	349000/1745	100%	0.070	0.038	0.08	20.73	22.50	1.503	0.105	22.3
Bottom side	40	QPSK 1_108	349000/1745	100%	0.339	0.200	0.06	20.73	22.50	1.503	0.510	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	40	QPSK 108_54	346000/1730	100%	0.178	0.106	0.17	20.91	22.50	1.442	0.257	22.3
Back side	40	QPSK 108_54	346000/1730	100%	0.335	0.201	-0.16	20.91	22.50	1.442	0.483	22.3
Left side	40	QPSK 108_54	346000/1730	100%	0.003	0.001	-0.18	20.91	22.50	1.442	0.004	22.3
Right side	40	QPSK 108_54	346000/1730	100%	0.068	0.036	-0.17	20.91	22.50	1.442	0.098	22.3
Bottom side	40	QPSK 108_54	346000/1730	100%	0.325	0.194	-0.09	20.91	22.50	1.442	0.469	22.3

Table 29 : SAR of NR Band n66 for Head, Body and Hotspot.



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8.2.20 SAR Result of NR Band n77(3450-3550)

N77 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	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)
Head Test Data (1RB) DSI 5												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.143	0.060	-0.13	15.18	16.00	1.208	0.173	22.3
Left tilted	100	QPSK 1_1	633334/3500	100%	0.073	0.017	0.16	15.18	16.00	1.208	0.088	22.3
Right cheek	100	QPSK 1_1	633334/3500	100%	0.509	0.163	0.03	15.18	16.00	1.208	0.615	22.3
Right tilted	100	QPSK 1_1	633334/3500	100%	0.104	0.044	-0.08	15.18	16.00	1.208	0.126	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.181	0.078	0.08	15.27	16.00	1.183	0.214	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.047	0.019	0.04	15.27	16.00	1.183	0.056	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.512	0.164	0.05	15.27	16.00	1.183	0.606	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.115	0.049	0.19	15.27	16.00	1.183	0.136	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_1	633334/3500	100%	0.088	0.041	0.08	17.72	18.50	1.197	0.105	22.3
Back side	100	QPSK 1_1	633334/3500	100%	0.337	0.149	-0.07	17.72	18.50	1.197	0.403	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	100%	0.108	0.048	0.03	17.81	18.50	1.172	0.127	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.320	0.140	0.04	17.81	18.50	1.172	0.375	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_1	633334/3500	100%	0.116	0.047	-0.14	14.66	15.50	1.213	0.141	22.3
Back side	100	QPSK 1_1	633334/3500	100%	0.375	0.145	0.17	14.66	15.50	1.213	0.455	22.3
Left side	100	QPSK 1_1	633334/3500	100%	0.586	0.214	0.09	14.66	15.50	1.213	0.711	22.3
Top side	100	QPSK 1_1	633334/3500	100%	0.005	0.002	0.06	14.66	15.50	1.213	0.006	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.102	0.045	0.12	14.78	15.50	1.180	0.120	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.389	0.153	-0.13	14.78	15.50	1.180	0.459	22.3
Left side	100	QPSK 135_69	633334/3500	100%	0.515	0.189	-0.10	14.78	15.50	1.180	0.608	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.006	0.004	-0.03	14.78	15.50	1.180	0.007	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_1	633334/3500	100%	0.116	0.047	-0.14	14.66	12.50	0.608	0.071	22.3
Back side	100	QPSK 1_1	633334/3500	100%	0.375	0.145	0.17	14.66	12.50	0.608	0.228	22.3
Left side	100	QPSK 1_1	633334/3500	100%	0.586	0.214	0.09	14.66	12.50	0.608	0.356	22.3
Top side	100	QPSK 1_1	633334/3500	100%	0.005	0.002	0.06	14.66	12.50	0.608	0.003	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.102	0.045	0.12	14.78	12.50	0.592	0.060	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.389	0.153	-0.13	14.78	12.50	0.592	0.230	22.3
Left side	100	QPSK 135_69	633334/3500	100%	0.515	0.189	-0.10	14.78	12.50	0.592	0.305	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.006	0.004	-0.03	14.78	12.50	0.592	0.004	22.3



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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 (Separate 0mm 1RB) DSI 6												
Left side	100	QPSK 1_1	633334/3500	100%	7.890	2.190	0.06	17.72	18.50	1.197	2.621	22.5
Left side-repeated	100	QPSK 1_1	633334/3500	100%	7.750	2.150	0.13	17.72	18.50	1.197	2.573	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI 6												
Left side	100	QPSK 135_69	633334/3500	100%	7.940	2.160	-0.09	17.81	18.50	1.172	2.532	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) DSI 6												
Left side	100	QPSK 270_0	633334/3500	100%	5.030	1.430	0.08	16.80	17.50	1.175	1.680	22.5
Ant 23 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	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)
Head Test Data(1RB) DSI 5												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.489	0.213	0.18	16.86	17.50	1.159	0.567	22.5
Left tilted	100	QPSK 1_1	633334/3500	100%	0.280	0.122	0.12	16.86	17.50	1.159	0.324	22.5
Right cheek	100	QPSK 1_1	633334/3500	100%	0.229	0.106	-0.15	16.86	17.50	1.159	0.265	22.5
Right tilted	100	QPSK 1_1	633334/3500	100%	0.133	0.061	-0.04	16.86	17.50	1.159	0.154	22.5
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.457	0.203	0.12	16.95	17.50	1.135	0.519	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.309	0.136	0.15	16.95	17.50	1.135	0.351	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.223	0.104	-0.11	16.95	17.50	1.135	0.253	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.146	0.068	-0.09	16.95	17.50	1.135	0.166	22.3
Head Test Data(1RB) DSI 5 with ENDC												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.489	0.213	0.18	16.86	17.00	1.033	0.505	22.5
Left tilted	100	QPSK 1_1	633334/3500	100%	0.280	0.122	0.12	16.86	17.00	1.033	0.289	22.5
Right cheek	100	QPSK 1_1	633334/3500	100%	0.229	0.106	-0.15	16.86	17.00	1.033	0.237	22.5
Right tilted	100	QPSK 1_1	633334/3500	100%	0.133	0.061	-0.04	16.86	17.00	1.033	0.137	22.5
Head Test Data(50%RB) DSI 5 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.457	0.203	0.12	16.95	17.00	1.012	0.462	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.309	0.136	0.15	16.95	17.00	1.012	0.313	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.223	0.104	-0.11	16.95	17.00	1.012	0.226	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.146	0.068	-0.09	16.95	17.00	1.012	0.148	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_1	633334/3500	100%	0.125	0.060	0.18	19.41	20.00	1.146	0.143	22.3
Back side	100	QPSK 1_1	633334/3500	100%	0.267	0.121	0.05	19.41	20.00	1.146	0.306	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	100%	0.113	0.055	-0.04	19.55	20.00	1.109	0.125	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.284	0.127	-0.13	19.55	20.00	1.109	0.315	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_1	633334/3500	100%	0.118	0.055	-0.18	16.86	17.50	1.159	0.137	22.3
Back side	100	QPSK 1_1	633334/3500	100%	0.323	0.132	-0.01	16.86	17.50	1.159	0.374	22.3



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Right side	100	QPSK 1_1	633334/3500	100%	0.218	0.094	0.17	16.86	17.50	1.159	0.253	22.3
Top side	100	QPSK 1_1	633334/3500	100%	0.057	0.029	0.01	16.86	17.50	1.159	0.066	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.108	0.052	0.07	16.95	17.50	1.135	0.123	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.333	0.135	-0.15	16.95	17.50	1.135	0.378	22.3
Right side	100	QPSK 135_69	633334/3500	100%	0.220	0.097	0.18	16.95	17.50	1.135	0.250	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.062	0.030	-0.19	16.95	17.50	1.135	0.070	22.3
Ant21 Test Record (SRS)												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	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.(℃)
Head Test Data (1RB) DSI 5												
Left cheek	100	QPSK 1_137	633334/3500	8.5%	0.493	0.188	-0.06	14.45	15.00	0.096	0.048	22.3
Left tilted	100	QPSK 1_137	633334/3500	8.5%	0.593	0.204	-0.10	14.45	15.00	0.096	0.057	22.3
Right cheek	100	QPSK 1_137	633334/3500	8.5%	0.295	0.118	0.01	14.45	15.00	0.096	0.028	22.3
Right tilted	100	QPSK 1_137	633334/3500	8.5%	0.380	0.143	0.16	14.45	15.00	0.096	0.037	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	8.5%	0.496	0.189	-0.12	14.56	15.00	0.094	0.047	22.3
Left tilted	100	QPSK 135_69	633334/3500	8.5%	0.543	0.201	-0.13	14.56	15.00	0.094	0.051	22.3
Right cheek	100	QPSK 135_69	633334/3500	8.5%	0.299	0.118	0.02	14.56	15.00	0.094	0.028	22.3
Right tilted	100	QPSK 135_69	633334/3500	8.5%	0.399	0.149	0.05	14.56	15.00	0.094	0.038	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	633334/3500	8.5%	0.087	0.040	0.10	17.00	17.50	0.095	0.008	22.3
Back side	100	QPSK 1_137	633334/3500	8.5%	0.129	0.058	-0.08	17.00	17.50	0.095	0.012	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.092	0.043	0.18	17.09	17.50	0.093	0.009	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.133	0.059	-0.19	17.09	17.50	0.093	0.012	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	633334/3500	8.5%	0.089	0.038	-0.09	13.90	14.50	0.098	0.009	22.3
Back side	100	QPSK 1_137	633334/3500	8.5%	0.138	0.057	-0.01	13.90	14.50	0.098	0.013	22.3
Right side	100	QPSK 1_137	633334/3500	8.5%	0.050	0.008	-0.06	13.90	14.50	0.098	0.005	22.3
Top side	100	QPSK 1_137	633334/3500	8.5%	0.204	0.083	-0.03	13.90	14.50	0.098	0.020	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.088	0.038	-0.02	13.99	14.50	0.096	0.008	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.139	0.059	-0.06	13.99	14.50	0.096	0.013	22.3
Right side	100	QPSK 135_69	633334/3500	8.5%	0.030	0.008	0.17	13.99	14.50	0.096	0.003	22.3
Top side	100	QPSK 135_69	633334/3500	8.5%	0.199	0.082	-0.15	13.99	14.50	0.096	0.019	22.3
Ant 101 Test Record (SRS)												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	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.(℃)
Head Test Data(1RB) DSI 5												
Left cheek	100	QPSK 1_1	633334/3500	8.5%	0.157	0.074	-0.08	21.28	22.20	0.105	0.016	22.3
Left tilted	100	QPSK 1_1	633334/3500	8.5%	0.150	0.069	0.04	21.28	22.20	0.105	0.016	22.3



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Right cheek	100	QPSK 1_1	633334/3500	8.5%	0.344	0.162	-0.19	21.28	22.20	0.105	0.036	22.3
Right tilted	100	QPSK 1_1	633334/3500	8.5%	0.285	0.125	-0.12	21.28	22.20	0.105	0.030	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	8.5%	0.199	0.095	-0.04	21.36	22.20	0.103	0.021	22.3
Left tilted	100	QPSK 135_69	633334/3500	8.5%	0.182	0.085	0.06	21.36	22.20	0.103	0.019	22.3
Right cheek	100	QPSK 135_69	633334/3500	8.5%	0.402	0.191	0.13	21.36	22.20	0.103	0.041	22.3
Right tilted	100	QPSK 135_69	633334/3500	8.5%	0.353	0.152	0.07	21.36	22.20	0.103	0.036	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_1	633334/3500	8.5%	0.079	0.019	-0.01	15.26	16.20	0.106	0.008	22.3
Back side	100	QPSK 1_1	633334/3500	8.5%	0.103	0.046	0.18	15.26	16.20	0.106	0.011	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.044	0.011	-0.01	15.29	16.20	0.105	0.005	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.111	0.053	0.14	15.29	16.20	0.105	0.012	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_1	633334/3500	8.5%	0.040	0.011	-0.02	13.70	14.70	0.107	0.004	22.3
Back side	100	QPSK 1_1	633334/3500	8.5%	0.168	0.068	0.05	13.70	14.70	0.107	0.018	22.3
Left side	100	QPSK 1_1	633334/3500	8.5%	0.075	0.033	0.11	13.70	14.70	0.107	0.008	22.3
Top side	100	QPSK 1_1	633334/3500	8.5%	0.052	0.022	0.18	13.70	14.70	0.107	0.006	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.031	0.008	-0.04	13.75	14.70	0.106	0.003	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.178	0.077	0.03	13.75	14.70	0.106	0.019	22.3
Left side	100	QPSK 135_69	633334/3500	8.5%	0.088	0.039	-0.16	13.75	14.70	0.106	0.009	22.3
Top side	100	QPSK 135_69	633334/3500	8.5%	0.045	0.019	-0.01	13.75	14.70	0.106	0.005	22.3

Table 30 : SAR of NR Band n77(3450-3550) for Head, Body, Hotspot and Product specific 10g SAR.



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8.2.21 SAR Result of NR Band n77(3700-3980)

N77 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1 271	650000/3750	100%	0.122	0.052	-0.04	15.27	16.00	1.183	0.144	22.3
Left tilted	100	QPSK 1 271	650000/3750	100%	0.047	0.020	0.00	15.27	16.00	1.183	0.056	22.3
Right cheek	100	QPSK 1 271	650000/3750	100%	0.432	0.144	0.16	15.27	16.00	1.183	0.511	22.3
Right tilted	100	QPSK 1 271	650000/3750	100%	0.097	0.041	-0.17	15.27	16.00	1.183	0.115	22.3
Right cheek	100	QPSK 1 137	652400/3786	100%	0.425	0.144	0.04	15.23	16.00	1.194	0.507	22.3
Right cheek	100	QPSK 1 137	654800/3822	100%	0.420	0.142	0.18	15.24	16.00	1.191	0.500	22.3
Right cheek	100	QPSK 1 1	657200/3858	100%	0.423	0.143	0.04	15.23	16.00	1.194	0.505	22.3
Right cheek	100	QPSK 1 1	659600/3894	100%	0.418	0.141	0.09	15.16	16.00	1.213	0.507	22.3
Right cheek	100	QPSK 1 1	662000/3930	100%	0.410	0.139	0.18	15.22	16.00	1.197	0.491	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135 69	657200/3858	100%	0.128	0.054	-0.13	15.44	16.00	1.138	0.146	22.3
Left tilted	100	QPSK 135 69	657200/3858	100%	0.044	0.021	0.13	15.44	16.00	1.138	0.050	22.3
Right cheek	100	QPSK 135 69	657200/3858	100%	0.440	0.149	-0.04	15.44	16.00	1.138	0.501	22.3
Right tilted	100	QPSK 135 69	657200/3858	100%	0.094	0.040	0.11	15.44	16.00	1.138	0.107	22.3
Right cheek	100	QPSK 135 69	650000/3750	100%	0.451	0.148	0.05	15.41	16.00	1.146	0.517	22.5
Right cheek	100	QPSK 135 69	652400/3786	100%	0.443	0.153	-0.11	15.39	16.00	1.151	0.510	22.3
Right cheek	100	QPSK 135 69	654800/3822	100%	0.440	0.149	0.08	15.40	16.00	1.148	0.505	22.3
Right cheek	100	QPSK 135 69	659600/3894	100%	0.415	0.141	-0.01	15.34	16.00	1.164	0.483	22.3
Right cheek	100	QPSK 135 69	662000/3930	100%	0.384	0.131	0.09	15.29	16.00	1.178	0.452	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1 1	650000/3750	100%	0.106	0.044	-0.11	17.81	18.50	1.172	0.124	22.3
Back side	100	QPSK 1 1	650000/3750	100%	0.259	0.111	-0.07	17.81	18.50	1.172	0.304	22.5
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135 69	654800/3822	100%	0.098	0.043	0.15	17.95	18.50	1.135	0.111	22.3
Back side	100	QPSK 135 69	654800/3822	100%	0.253	0.104	-0.10	17.95	18.50	1.135	0.287	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1 271	654800/3822	100%	0.081	0.035	-0.13	14.79	15.50	1.178	0.095	22.3
Back side	100	QPSK 1 271	654800/3822	100%	0.217	0.087	-0.16	14.79	15.50	1.178	0.256	22.3
Left side	100	QPSK 1 271	654800/3822	100%	0.290	0.105	-0.13	14.79	15.50	1.178	0.342	22.3
Top side	100	QPSK 1 271	654800/3822	100%	0.046	0.012	0.07	14.79	15.50	1.178	0.054	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135 69	652400/3786	100%	0.101	0.041	0.12	14.93	15.50	1.140	0.115	22.3
Back side	100	QPSK 135 69	652400/3786	100%	0.254	0.100	-0.19	14.93	15.50	1.140	0.290	22.3
Left side	100	QPSK 135 69	652400/3786	100%	0.303	0.115	0.15	14.93	15.50	1.140	0.345	22.5
Top side	100	QPSK 135 69	652400/3786	100%	0.046	0.013	-0.17	14.93	15.50	1.140	0.052	22.3
Ant23 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1 137	650000/3750	100%	0.295	0.112	0.18	16.80	17.50	1.175	0.347	22.3
Left tilted	100	QPSK 1 137	650000/3750	100%	0.089	0.042	0.14	16.80	17.50	1.175	0.105	22.3
Right cheek	100	QPSK 1 137	650000/3750	100%	0.119	0.054	-0.04	16.80	17.50	1.175	0.140	22.3
Right tilted	100	QPSK 1 137	650000/3750	100%	0.056	0.023	-0.02	16.80	17.50	1.175	0.066	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135 69	650000/3750	100%	0.310	0.118	-0.18	16.91	17.50	1.146	0.355	22.3
Left tilted	100	QPSK 135 69	650000/3750	100%	0.092	0.043	-0.14	16.91	17.50	1.146	0.105	22.3
Right cheek	100	QPSK 135 69	650000/3750	100%	0.128	0.058	0.05	16.91	17.50	1.146	0.147	22.3
Right tilted	100	QPSK 135 69	650000/3750	100%	0.056	0.025	0.00	16.91	17.50	1.146	0.064	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1 1	650000/3750	100%	0.057	0.021	-0.08	19.33	20.00	1.167	0.067	22.3



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Back side	100	QPSK 1 1	650000/3750	100%	0.173	0.075	-0.07	19.33	20.00	1.167	0.202	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135 69	650000/3750	100%	0.057	0.024	0.08	19.51	20.00	1.119	0.064	22.3
Back side	100	QPSK 135 69	650000/3750	100%	0.175	0.077	-0.13	19.51	20.00	1.119	0.196	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1 137	650000/3750	100%	0.057	0.023	-0.01	16.80	17.50	1.175	0.067	22.3
Back side	100	QPSK 1 137	650000/3750	100%	0.199	0.080	-0.06	16.80	17.50	1.175	0.234	22.3
Right side	100	QPSK 1 137	650000/3750	100%	0.103	0.047	-0.02	16.80	17.50	1.175	0.121	22.3
Top side	100	QPSK 1 137	650000/3750	100%	0.041	0.017	-0.10	16.80	17.50	1.175	0.048	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135 69	650000/3750	100%	0.056	0.022	-0.08	16.91	17.50	1.146	0.064	22.3
Back side	100	QPSK 135 69	650000/3750	100%	0.224	0.087	-0.09	16.91	17.50	1.146	0.257	22.3
Right side	100	QPSK 135 69	650000/3750	100%	0.112	0.050	-0.06	16.91	17.50	1.146	0.128	22.3
Top side	100	QPSK 135 69	650000/3750	100%	0.036	0.015	-0.17	16.91	17.50	1.146	0.041	22.3
Ant21 Test Record (SRS)												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1 137	659600/3894	8.5%	0.356	0.133	-0.14	14.06	15.00	0.106	0.038	22.3
Left tilted	100	QPSK 1 137	659600/3894	8.5%	0.416	0.149	0.05	14.06	15.00	0.106	0.044	22.3
Right cheek	100	QPSK 1 137	659600/3894	8.5%	0.250	0.095	-0.10	14.06	15.00	0.106	0.026	22.3
Right tilted	100	QPSK 1 137	659600/3894	8.5%	0.306	0.112	-0.02	14.06	15.00	0.106	0.032	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135 69	657200/3858	8.5%	0.413	0.153	0.11	14.16	15.00	0.103	0.043	22.3
Left tilted	100	QPSK 135 69	657200/3858	8.5%	0.476	0.171	0.03	14.16	15.00	0.103	0.049	22.3
Right cheek	100	QPSK 135 69	657200/3858	8.5%	0.268	0.104	-0.07	14.16	15.00	0.103	0.028	22.3
Right tilted	100	QPSK 135 69	657200/3858	8.5%	0.325	0.127	0.00	14.16	15.00	0.103	0.034	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1 271	654800/3822	8.5%	0.086	0.039	-0.16	16.60	17.50	0.105	0.009	22.3
Back side	100	QPSK 1 271	654800/3822	8.5%	0.104	0.045	-0.08	16.60	17.50	0.105	0.011	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135 69	657200/3858	8.5%	0.093	0.041	0.10	16.71	17.50	0.102	0.009	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.117	0.052	0.15	16.71	17.50	0.102	0.012	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1 137	659600/3894	8.5%	0.070	0.030	0.13	13.55	14.50	0.106	0.007	22.3
Back side	100	QPSK 1 137	659600/3894	8.5%	0.096	0.039	-0.06	13.55	14.50	0.106	0.010	22.3
Right side	100	QPSK 1 137	659600/3894	8.5%	0.034	0.007	0.03	13.55	14.50	0.106	0.004	22.3
Top side	100	QPSK 1 137	659600/3894	8.5%	0.137	0.055	0.12	13.55	14.50	0.106	0.014	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135 69	657200/3858	8.5%	0.079	0.034	-0.10	13.67	14.50	0.103	0.008	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.116	0.046	-0.11	13.67	14.50	0.103	0.012	22.3
Right side	100	QPSK 135 69	657200/3858	8.5%	0.086	0.021	0.11	13.67	14.50	0.103	0.009	22.3
Top side	100	QPSK 135 69	657200/3858	8.5%	0.158	0.066	0.02	13.67	14.50	0.103	0.016	22.3
Ant101 Test Record (SRS)												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1 1	659600/3894	8.5%	0.076	0.026	0.11	21.20	22.20	0.107	0.008	22.3
Left tilted	100	QPSK 1 1	659600/3894	8.5%	0.060	0.016	-0.15	21.20	22.20	0.107	0.006	22.3
Right cheek	100	QPSK 1 1	659600/3894	8.5%	0.101	0.046	-0.03	21.20	22.20	0.107	0.011	22.3
Right tilted	100	QPSK 1 1	659600/3894	8.5%	0.068	0.030	0.08	21.20	22.20	0.107	0.007	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135 69	657200/3858	8.5%	0.067	0.020	-0.05	21.32	22.20	0.104	0.007	22.3
Left tilted	100	QPSK 135 69	657200/3858	8.5%	0.084	0.020	0.14	21.32	22.20	0.104	0.009	22.3
Right cheek	100	QPSK 135 69	657200/3858	8.5%	0.118	0.051	0.03	21.32	22.20	0.104	0.012	22.3
Right tilted	100	QPSK 135 69	657200/3858	8.5%	0.068	0.031	0.17	21.32	22.20	0.104	0.007	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1 1	659600/3894	8.5%	0.036	0.009	-0.03	15.30	16.20	0.105	0.004	22.3



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Back side	100	QPSK 1 1	659600/3894	8.5%	0.078	0.030	-0.15	15.30	16.20	0.105	0.008	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135 69	657200/3858	8.5%	0.049	0.011	0.01	15.44	16.20	0.101	0.005	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.074	0.028	0.11	15.44	16.20	0.101	0.007	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1 1	659600/3894	8.5%	0.042	0.011	0.07	13.79	14.70	0.105	0.004	22.3
Back side	100	QPSK 1 1	659600/3894	8.5%	0.139	0.043	-0.13	13.79	14.70	0.105	0.015	22.3
Left side	100	QPSK 1 1	659600/3894	8.5%	0.032	0.008	0.10	13.79	14.70	0.105	0.003	22.3
Top side	100	QPSK 1 1	659600/3894	8.5%	0.054	0.014	-0.05	13.79	14.70	0.105	0.006	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135 69	657200/3858	8.5%	0.039	0.010	0.07	13.99	14.70	0.100	0.004	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.106	0.041	0.18	13.99	14.70	0.100	0.011	22.3
Left side	100	QPSK 135 69	657200/3858	8.5%	0.044	0.012	0.06	13.99	14.70	0.100	0.004	22.3
Top side	100	QPSK 135 69	657200/3858	8.5%	0.045	0.012	0.17	13.99	14.70	0.100	0.005	22.3

Table 31 : SAR of NR Band n77(3700-3980) for Head, Body and Hotspot.



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8.2.22 SAR Result of NR Band n78(3450-3550)

N78 SAR Test Record												
Ant11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.185	0.082	-0.01	15.70	16.50	1.202	0.222	22.3
Left tilted	100	QPSK 1_137	633334/3500	100%	0.054	0.025	0.01	15.70	16.50	1.202	0.065	22.3
Right cheek	100	QPSK 1_137	633334/3500	100%	0.604	0.192	0.07	15.70	16.50	1.202	0.726	22.3
Right tilted	100	QPSK 1_137	633334/3500	100%	0.119	0.051	-0.03	15.70	16.50	1.202	0.143	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.175	0.072	-0.04	15.76	16.50	1.186	0.208	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.072	0.027	0.10	15.76	16.50	1.186	0.085	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.600	0.191	0.05	15.76	16.50	1.186	0.711	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.120	0.052	0.07	15.76	16.50	1.186	0.142	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.185	0.082	-0.01	15.70	12.50	0.479	0.089	22.3
Left tilted	100	QPSK 1_137	633334/3500	100%	0.054	0.025	0.01	15.70	12.50	0.479	0.026	22.3
Right cheek	100	QPSK 1_137	633334/3500	100%	0.604	0.192	0.07	15.70	12.50	0.479	0.289	22.3
Right tilted	100	QPSK 1_137	633334/3500	100%	0.119	0.051	-0.03	15.70	12.50	0.479	0.057	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.175	0.072	-0.04	15.76	12.50	0.472	0.083	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.072	0.027	0.10	15.76	12.50	0.472	0.034	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.600	0.191	0.05	15.76	12.50	0.472	0.283	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.120	0.052	0.07	15.76	12.50	0.472	0.057	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	633334/3500	100%	0.099	0.044	-0.02	17.77	18.50	1.183	0.117	22.3
Back side	100	QPSK 1_137	633334/3500	100%	0.312	0.136	-0.06	17.77	18.50	1.183	0.369	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	100%	0.103	0.047	-0.10	17.81	18.50	1.172	0.121	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.321	0.140	0.07	17.81	18.50	1.172	0.376	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	633334/3500	100%	0.114	0.047	0.05	15.25	16.00	1.189	0.135	22.3
Back side	100	QPSK 1_137	633334/3500	100%	0.393	0.153	0.09	15.25	16.00	1.189	0.467	22.3
Left side	100	QPSK 1_137	633334/3500	100%	0.482	0.181	0.05	15.25	16.00	1.189	0.573	22.3
Top side	100	QPSK 1_137	633334/3500	100%	0.027	0.006	0.18	15.25	16.00	1.189	0.032	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.127	0.050	-0.13	15.26	16.00	1.186	0.151	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.420	0.161	0.16	15.26	16.00	1.186	0.498	22.3
Left side	100	QPSK 135_69	633334/3500	100%	0.497	0.187	0.15	15.26	16.00	1.186	0.589	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.042	0.013	-0.05	15.26	16.00	1.186	0.050	22.3



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Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_137	633334/3500	100%	0.114	0.047	0.05	15.25	13.00	0.596	0.068	22.3
Back side	100	QPSK 1_137	633334/3500	100%	0.393	0.153	0.09	15.25	13.00	0.596	0.234	22.3
Left side	100	QPSK 1_137	633334/3500	100%	0.482	0.181	0.05	15.25	13.00	0.596	0.287	22.3
Top side	100	QPSK 1_137	633334/3500	100%	0.027	0.006	0.18	15.25	13.00	0.596	0.016	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.127	0.050	-0.13	15.26	13.00	0.594	0.075	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.420	0.161	0.16	15.26	13.00	0.594	0.250	22.3
Left side	100	QPSK 135_69	633334/3500	100%	0.497	0.187	0.15	15.26	13.00	0.594	0.295	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.042	0.013	-0.05	15.26	13.00	0.594	0.025	22.3
Ant23 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.446	0.184	0.08	17.07	17.80	1.183	0.528	22.3
Left tilted	100	QPSK 1_271	633334/3500	100%	0.249	0.110	-0.08	17.07	17.80	1.183	0.295	22.3
Right cheek	100	QPSK 1_271	633334/3500	100%	0.215	0.102	-0.02	17.07	17.80	1.183	0.254	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.114	0.053	-0.14	17.07	17.80	1.183	0.135	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.485	0.202	0.03	17.18	17.80	1.153	0.559	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.305	0.134	0.11	17.18	17.80	1.153	0.352	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.258	0.119	0.02	17.18	17.80	1.153	0.298	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.175	0.082	-0.17	17.18	17.80	1.153	0.202	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.446	0.184	0.08	17.07	13.80	0.471	0.210	22.3
Left tilted	100	QPSK 1_271	633334/3500	100%	0.249	0.110	-0.08	17.07	13.80	0.471	0.117	22.3
Right cheek	100	QPSK 1_271	633334/3500	100%	0.215	0.102	-0.02	17.07	13.80	0.471	0.101	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.114	0.053	-0.14	17.07	13.80	0.471	0.054	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.485	0.202	0.03	17.18	13.80	0.459	0.223	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.305	0.134	0.11	17.18	13.80	0.459	0.140	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.258	0.119	0.02	17.18	13.80	0.459	0.118	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.175	0.082	-0.17	17.18	13.80	0.459	0.080	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_271	633334/3500	100%	0.077	0.038	0.10	19.11	19.80	1.172	0.090	22.3
Back side	100	QPSK 1_271	633334/3500	100%	0.209	0.094	-0.14	19.11	19.80	1.172	0.245	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	100%	0.100	0.049	0.16	19.24	19.80	1.138	0.114	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.235	0.105	-0.07	19.24	19.80	1.138	0.267	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_271	633334/3500	100%	0.086	0.040	0.15	17.07	17.80	1.183	0.102	22.3
Back side	100	QPSK 1_271	633334/3500	100%	0.290	0.118	0.13	17.07	17.80	1.183	0.343	22.3



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Right side	100	QPSK 1_271	633334/3500	100%	0.199	0.087	-0.10	17.07	17.80	1.183	0.235	22.3
Top side	100	QPSK 1_271	633334/3500	100%	0.052	0.026	-0.01	17.07	17.80	1.183	0.062	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.112	0.053	0.09	17.18	17.80	1.153	0.129	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.320	0.131	-0.02	17.18	17.80	1.153	0.369	22.3
Right side	100	QPSK 135_69	633334/3500	100%	0.223	0.095	-0.18	17.18	17.80	1.153	0.257	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.061	0.030	0.12	17.18	17.80	1.153	0.070	22.3
Ant21 Test Record (SRS)												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_137	633334/3500	8.5%	0.244	0.096	-0.10	12.15	13.00	0.103	0.025	22.3
Left tilted	100	QPSK 1_137	633334/3500	8.5%	0.311	0.117	-0.08	12.15	13.00	0.103	0.032	22.3
Right cheek	100	QPSK 1_137	633334/3500	8.5%	0.169	0.069	0.01	12.15	13.00	0.103	0.017	22.3
Right tilted	100	QPSK 1_137	633334/3500	8.5%	0.202	0.079	-0.01	12.15	13.00	0.103	0.021	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	8.5%	0.283	0.108	-0.12	12.18	13.00	0.103	0.029	22.3
Left tilted	100	QPSK 135_69	633334/3500	8.5%	0.324	0.120	-0.07	12.18	13.00	0.103	0.033	22.3
Right cheek	100	QPSK 135_69	633334/3500	8.5%	0.166	0.068	0.14	12.18	13.00	0.103	0.017	22.3
Right tilted	100	QPSK 135_69	633334/3500	8.5%	0.217	0.085	0.18	12.18	13.00	0.103	0.022	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	633334/3500	8.5%	0.068	0.031	0.19	16.15	17.00	0.103	0.007	22.3
Back side	100	QPSK 1_137	633334/3500	8.5%	0.100	0.045	0.11	16.15	17.00	0.103	0.010	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.067	0.031	0.00	16.27	17.00	0.101	0.007	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.100	0.046	-0.06	16.27	17.00	0.101	0.010	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	633334/3500	8.5%	0.070	0.031	-0.06	13.60	14.50	0.105	0.007	22.3
Back side	100	QPSK 1_137	633334/3500	8.5%	0.123	0.050	-0.17	13.60	14.50	0.105	0.013	22.3
Right side	100	QPSK 1_137	633334/3500	8.5%	0.039	0.010	0.04	13.60	14.50	0.105	0.004	22.3
Top side	100	QPSK 1_137	633334/3500	8.5%	0.152	0.065	0.09	13.60	14.50	0.105	0.016	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.076	0.033	0.04	13.76	14.50	0.101	0.008	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.129	0.052	0.19	13.76	14.50	0.101	0.013	22.3
Right side	100	QPSK 135_69	633334/3500	8.5%	0.036	0.010	-0.04	13.76	14.50	0.101	0.004	22.3
Top side	100	QPSK 135_69	633334/3500	8.5%	0.157	0.067	-0.10	13.76	14.50	0.101	0.016	22.3
Ant101 Test Record (SRS)												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_1	633334/3500	8.5%	0.142	0.068	-0.11	21.25	22.50	0.113	0.016	22.3
Left tilted	100	QPSK 1_1	633334/3500	8.5%	0.135	0.064	0.04	21.25	22.50	0.113	0.015	22.3
Right cheek	100	QPSK 1_1	633334/3500	8.5%	0.330	0.155	-0.14	21.25	22.50	0.113	0.037	22.3



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Right tilted	100	QPSK 1_1	633334/3500	8.5%	0.265	0.118	-0.05	21.25	22.50	0.113	0.030	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	633334/3500	8.5%	0.186	0.080	0.10	21.46	22.50	0.108	0.020	22.3
Left tilted	100	QPSK 135_69	633334/3500	8.5%	0.179	0.083	0.18	21.46	22.50	0.108	0.019	22.3
Right cheek	100	QPSK 135_69	633334/3500	8.5%	0.397	0.187	-0.09	21.46	22.50	0.108	0.043	22.3
Right tilted	100	QPSK 135_69	633334/3500	8.5%	0.341	0.150	-0.05	21.46	22.50	0.108	0.037	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	633334/3500	8.5%	0.042	0.011	-0.13	18.27	19.50	0.113	0.005	22.3
Back side	100	QPSK 1_137	633334/3500	8.5%	0.206	0.097	-0.08	18.27	19.50	0.113	0.023	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.041	0.019	-0.11	18.39	19.50	0.110	0.004	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.221	0.103	-0.05	18.39	19.50	0.110	0.024	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_1	633334/3500	8.5%	0.052	0.024	0.15	17.27	18.50	0.113	0.006	22.3
Back side	100	QPSK 1_1	633334/3500	8.5%	0.358	0.146	-0.07	17.27	18.50	0.113	0.040	22.3
Left side	100	QPSK 1_1	633334/3500	8.5%	0.156	0.070	-0.05	17.27	18.50	0.113	0.018	22.3
Top side	100	QPSK 1_1	633334/3500	8.5%	0.081	0.039	-0.01	17.27	18.50	0.113	0.009	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	633334/3500	8.5%	0.061	0.028	0.07	17.33	18.50	0.111	0.007	22.3
Back side	100	QPSK 135_69	633334/3500	8.5%	0.415	0.170	0.12	17.33	18.50	0.111	0.046	22.3
Left side	100	QPSK 135_69	633334/3500	8.5%	0.184	0.081	-0.04	17.33	18.50	0.111	0.020	22.3
Top side	100	QPSK 135_69	633334/3500	8.5%	0.087	0.042	0.06	17.33	18.50	0.111	0.010	22.3

Table 32 : SAR of NR Band n78(3450-3550) for Head, Body and Hotspot.



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8.2.23 SAR Result of NR Band n78(3700-3800)

N78 SAR Test Record												
Ant11 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_137	650000/3750	100%	0.138	0.057	0.06	15.84	16.50	1.164	0.161	22.3
Left tilted	100	QPSK 1_137	650000/3750	100%	0.049	0.022	-0.01	15.84	16.50	1.164	0.057	22.3
Right cheek	100	QPSK 1_137	650000/3750	100%	0.489	0.159	0.02	15.84	16.50	1.164	0.569	22.3
Right tilted	100	QPSK 1_137	650000/3750	100%	0.110	0.047	0.10	15.84	16.50	1.164	0.128	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.146	0.059	0.19	15.79	16.50	1.178	0.172	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.050	0.024	-0.07	15.79	16.50	1.178	0.059	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.521	0.169	0.05	15.79	16.50	1.178	0.614	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.115	0.049	-0.16	15.79	16.50	1.178	0.135	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	100	QPSK 1_137	650000/3750	100%	0.138	0.057	0.06	15.84	12.50	0.463	0.064	22.3
Left tilted	100	QPSK 1_137	650000/3750	100%	0.049	0.022	-0.01	15.84	12.50	0.463	0.023	22.3
Right cheek	100	QPSK 1_137	650000/3750	100%	0.489	0.159	0.02	15.84	12.50	0.463	0.227	22.3
Right tilted	100	QPSK 1_137	650000/3750	100%	0.110	0.047	0.10	15.84	12.50	0.463	0.051	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.146	0.059	0.19	15.79	12.50	0.469	0.068	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.050	0.024	-0.07	15.79	12.50	0.469	0.023	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.521	0.169	0.05	15.79	12.50	0.469	0.244	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.115	0.049	-0.16	15.79	12.50	0.469	0.054	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	650000/3750	100%	0.113	0.046	-0.13	17.85	18.50	1.161	0.131	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.250	0.107	0.01	17.85	18.50	1.161	0.290	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	650000/3750	100%	0.111	0.048	0.10	17.83	18.50	1.167	0.130	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.262	0.112	0.05	17.83	18.50	1.167	0.306	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	650000/3750	100%	0.106	0.045	-0.16	15.31	16.00	1.172	0.124	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.274	0.113	-0.11	15.31	16.00	1.172	0.321	22.3
Left side	100	QPSK 1_137	650000/3750	100%	0.348	0.130	-0.13	15.31	16.00	1.172	0.408	22.3
Top side	100	QPSK 1_137	650000/3750	100%	0.044	0.014	-0.09	15.31	16.00	1.172	0.052	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	650000/3750	100%	0.111	0.046	-0.07	15.27	16.00	1.183	0.131	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.281	0.111	-0.08	15.27	16.00	1.183	0.332	22.3
Left side	100	QPSK 135_69	650000/3750	100%	0.390	0.143	-0.03	15.27	16.00	1.183	0.461	22.3
Top side	100	QPSK 135_69	650000/3750	100%	0.058	0.018	-0.17	15.27	16.00	1.183	0.069	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8 with ENDC												



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Front side	100	QPSK 1_137	650000/3750	100%	0.106	0.045	-0.16	15.31	13.00	0.587	0.062	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.274	0.113	-0.11	15.31	13.00	0.587	0.161	22.3
Left side	100	QPSK 1_137	650000/3750	100%	0.348	0.130	-0.13	15.31	13.00	0.587	0.204	22.3
Top side	100	QPSK 1_137	650000/3750	100%	0.044	0.014	-0.09	15.31	13.00	0.587	0.026	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	650000/3750	100%	0.111	0.046	-0.07	15.27	13.00	0.593	0.066	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.281	0.111	-0.08	15.27	13.00	0.593	0.167	22.3
Left side	100	QPSK 135_69	650000/3750	100%	0.390	0.143	-0.03	15.27	13.00	0.593	0.231	22.3
Top side	100	QPSK 135_69	650000/3750	100%	0.058	0.018	-0.17	15.27	13.00	0.593	0.034	22.3
Ant23 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_137	650000/3750	100%	0.272	0.106	-0.01	16.79	17.80	1.262	0.343	22.3
Left tilted	100	QPSK 1_137	650000/3750	100%	0.105	0.048	-0.08	16.79	17.80	1.262	0.132	22.3
Right cheek	100	QPSK 1_137	650000/3750	100%	0.112	0.051	-0.09	16.79	17.80	1.262	0.141	22.3
Right tilted	100	QPSK 1_137	650000/3750	100%	0.064	0.024	0.07	16.79	17.80	1.262	0.081	22.3
Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.270	0.107	0.10	16.83	17.80	1.250	0.338	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.106	0.050	0.02	16.83	17.80	1.250	0.133	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.121	0.055	0.11	16.83	17.80	1.250	0.151	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.084	0.034	0.12	16.83	17.80	1.250	0.105	22.3
Head Test Data (1RB) DSI 7 with ENDC												
Left cheek	100	QPSK 1_137	650000/3750	100%	0.272	0.106	-0.01	16.79	13.80	0.502	0.137	22.3
Left tilted	100	QPSK 1_137	650000/3750	100%	0.105	0.048	-0.08	16.79	13.80	0.502	0.053	22.3
Right cheek	100	QPSK 1_137	650000/3750	100%	0.112	0.051	-0.09	16.79	13.80	0.502	0.056	22.3
Right tilted	100	QPSK 1_137	650000/3750	100%	0.064	0.024	0.07	16.79	13.80	0.502	0.032	22.3
Head Test Data (50%RB) DSI 7 with ENDC												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.270	0.107	0.10	16.83	13.80	0.498	0.134	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.106	0.050	0.02	16.83	13.80	0.498	0.053	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.121	0.055	0.11	16.83	13.80	0.498	0.060	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.084	0.034	0.12	16.83	13.80	0.498	0.042	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_137	650000/3750	100%	0.054	0.017	0.19	18.79	19.80	1.262	0.068	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.141	0.060	-0.06	18.79	19.80	1.262	0.178	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	650000/3750	100%	0.056	0.020	0.08	18.91	19.80	1.227	0.069	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.142	0.061	-0.17	18.91	19.80	1.227	0.174	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	650000/3750	100%	0.057	0.024	0.04	16.79	17.80	1.262	0.072	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.191	0.074	0.16	16.79	17.80	1.262	0.241	22.3
Right side	100	QPSK 1_137	650000/3750	100%	0.098	0.045	-0.13	16.79	17.80	1.262	0.124	22.3



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Top side	100	QPSK 1_137	650000/3750	100%	0.045	0.019	-0.09	16.79	17.80	1.262	0.057	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	650000/3750	100%	0.050	0.022	-0.15	16.83	17.80	1.250	0.063	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.206	0.083	0.01	16.83	17.80	1.250	0.258	22.3
Right side	100	QPSK 135_69	650000/3750	100%	0.114	0.050	0.10	16.83	17.80	1.250	0.143	22.3
Top side	100	QPSK 135_69	650000/3750	100%	0.037	0.016	0.16	16.83	17.80	1.250	0.046	22.3
Ant21 Test Record (SRS)												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_1	650000/3750	8.5%	0.257	0.094	-0.05	11.51	13.00	0.120	0.031	22.3
Left tilted	100	QPSK 1_1	650000/3750	8.5%	0.304	0.104	-0.13	11.51	13.00	0.120	0.036	22.3
Right cheek	100	QPSK 1_1	650000/3750	8.5%	0.177	0.072	0.04	11.51	13.00	0.120	0.021	22.3
Right tilted	100	QPSK 1_1	650000/3750	8.5%	0.215	0.081	-0.08	11.51	13.00	0.120	0.026	22.3
Head Test Data (50%RB) DSI 5												
Left cheek	100	QPSK 135_69	650000/3750	8.5%	0.277	0.104	-0.06	11.57	13.00	0.118	0.033	22.3
Left tilted	100	QPSK 135_69	650000/3750	8.5%	0.327	0.116	-0.16	11.57	13.00	0.118	0.039	22.3
Right cheek	100	QPSK 135_69	650000/3750	8.5%	0.176	0.067	-0.10	11.57	13.00	0.118	0.021	22.3
Right tilted	100	QPSK 135_69	650000/3750	8.5%	0.213	0.079	0.05	11.57	13.00	0.118	0.025	22.3
Body worn Test data (Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_1	650000/3750	8.5%	0.076	0.032	-0.04	15.61	17.00	0.117	0.009	22.3
Back side	100	QPSK 1_1	650000/3750	8.5%	0.114	0.051	-0.18	15.61	17.00	0.117	0.013	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	650000/3750	8.5%	0.088	0.039	-0.02	15.59	17.00	0.118	0.010	22.3
Back side	100	QPSK 135_69	650000/3750	8.5%	0.129	0.057	0.05	15.59	17.00	0.118	0.015	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_1	650000/3750	8.5%	0.082	0.034	-0.10	13.05	14.50	0.119	0.010	22.3
Back side	100	QPSK 1_1	650000/3750	8.5%	0.128	0.053	0.07	13.05	14.50	0.119	0.015	22.3
Right side	100	QPSK 1_1	650000/3750	8.5%	0.037	0.008	-0.05	13.05	14.50	0.119	0.004	22.3
Top side	100	QPSK 1_1	650000/3750	8.5%	0.193	0.075	0.15	13.05	14.50	0.119	0.023	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	650000/3750	8.5%	0.085	0.035	-0.11	13.06	14.50	0.118	0.010	22.3
Back side	100	QPSK 135_69	650000/3750	8.5%	0.151	0.059	-0.04	13.06	14.50	0.118	0.018	22.3
Right side	100	QPSK 135_69	650000/3750	8.5%	0.038	0.011	-0.09	13.06	14.50	0.118	0.004	22.3
Top side	100	QPSK 135_69	650000/3750	8.5%	0.212	0.084	0.06	13.06	14.50	0.118	0.025	22.3
Ant101 Test Record (SRS)												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-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) DSI 5												
Left cheek	100	QPSK 1_1	650000/3750	8.5%	0.092	0.043	0.05	21.05	22.50	0.119	0.011	22.3
Left tilted	100	QPSK 1_1	650000/3750	8.5%	0.086	0.041	-0.16	21.05	22.50	0.119	0.010	22.3
Right cheek	100	QPSK 1_1	650000/3750	8.5%	0.251	0.115	0.05	21.05	22.50	0.119	0.030	22.3
Right tilted	100	QPSK 1_1	650000/3750	8.5%	0.172	0.079	-0.15	21.05	22.50	0.119	0.020	22.3



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Head Test Data(50%RB) DSI 5												
Left cheek	100	QPSK 135_69	650000/3750	8.5%	0.075	0.038	-0.16	21.17	22.50	0.115	0.009	22.3
Left tilted	100	QPSK 135_69	650000/3750	8.5%	0.060	0.029	0.08	21.17	22.50	0.115	0.007	22.3
Right cheek	100	QPSK 135_69	650000/3750	8.5%	0.195	0.088	-0.19	21.17	22.50	0.115	0.023	22.3
Right tilted	100	QPSK 135_69	650000/3750	8.5%	0.130	0.059	-0.04	21.17	22.50	0.115	0.015	22.3
Body worn Test data(Separate 15mm 1RB) DSI 6												
Front side	100	QPSK 1_1	650000/3750	8.5%	0.043	0.013	0.08	18.02	19.50	0.120	0.005	22.3
Back side	100	QPSK 1_1	650000/3750	8.5%	0.207	0.083	0.06	18.02	19.50	0.120	0.025	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 6												
Front side	100	QPSK 135_69	650000/3750	8.5%	0.048	0.015	0.13	18.20	19.50	0.115	0.006	22.3
Back side	100	QPSK 135_69	650000/3750	8.5%	0.198	0.076	0.19	18.20	19.50	0.115	0.023	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 8												
Front side	100	QPSK 1_137	650000/3750	8.5%	0.039	0.009	-0.17	17.08	18.50	0.118	0.005	22.3
Back side	100	QPSK 1_137	650000/3750	8.5%	0.424	0.137	0.04	17.08	18.50	0.118	0.050	22.3
Left side	100	QPSK 1_137	650000/3750	8.5%	0.101	0.043	0.11	17.08	18.50	0.118	0.012	22.3
Top side	100	QPSK 1_137	650000/3750	8.5%	0.067	0.024	-0.14	17.08	18.50	0.118	0.008	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 8												
Front side	100	QPSK 135_69	650000/3750	8.5%	0.034	0.009	-0.15	17.26	18.50	0.113	0.004	22.3
Back side	100	QPSK 135_69	650000/3750	8.5%	0.440	0.142	-0.05	17.26	18.50	0.113	0.050	22.3
Left side	100	QPSK 135_69	650000/3750	8.5%	0.106	0.045	-0.02	17.26	18.50	0.113	0.012	22.3
Top side	100	QPSK 135_69	650000/3750	8.5%	0.047	0.019	0.01	17.26	18.50	0.113	0.005	22.3

Table 33 : SAR of NR Band n78(3700-3800) for Head, Body and Hotspot.



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8.2.24 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-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	99.64%	1.004	0.253	0.133	-0.02	15.54	17.00	1.400	0.355	22.2
Left tilted	802.11b	6/2437	99.64%	1.004	0.196	0.099	0.15	15.54	17.00	1.400	0.275	22.2
Right cheek	802.11b	6/2437	99.64%	1.004	0.176	0.101	0.05	15.54	17.00	1.400	0.247	22.2
Right tilted	802.11b	6/2437	99.64%	1.004	0.160	0.082	0.16	15.54	17.00	1.400	0.225	22.2
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	99.64%	1.004	0.034	0.020	0.09	15.54	17.00	1.400	0.048	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.064	0.034	0.05	15.54	17.00	1.400	0.090	22.2
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	99.64%	1.004	0.055	0.031	0.07	15.54	17.00	1.400	0.077	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.141	0.071	0.09	15.54	17.00	1.400	0.198	22.2
Right side	802.11b	6/2437	99.64%	1.004	0.082	0.040	-0.04	15.54	17.00	1.400	0.115	22.2
Top side	802.11b	6/2437	99.64%	1.004	0.088	0.048	0.04	15.54	17.00	1.400	0.123	22.2

Table 34 : SAR of WIFI 2.4G for Head, Body and Hotspot.

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8.2.25 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-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	802.11n-HT40	54/5270	94.85%	1.054	0.613	0.180	0.04	15.82	17.50	1.472	0.952	22.3
Left tilted	802.11n-HT40	54/5270	94.85%	1.054	0.383	0.128	-0.05	15.82	17.50	1.472	0.595	22.3
Right cheek	802.11n-HT40	54/5270	94.85%	1.054	0.170	0.056	0.05	15.82	17.50	1.472	0.264	22.3
Right tilted	802.11n-HT40	54/5270	94.85%	1.054	0.251	0.080	-0.13	15.82	17.50	1.472	0.390	22.3
Left cheek	802.11n-HT40	62/5310	94.85%	1.054	0.238	0.076	-0.09	12.20	14.00	1.514	0.380	22.3
Head Test Data of U-NII-2C												
Left cheek	802.11n-HT40	126/5630	94.85%	1.054	0.498	0.140	0.09	13.45	15.00	1.429	0.750	22.3
Left tilted	802.11n-HT40	126/5630	94.85%	1.054	0.409	0.119	-0.06	13.45	15.00	1.429	0.616	22.3
Right cheek	802.11n-HT40	126/5630	94.85%	1.054	0.294	0.085	-0.06	13.45	15.00	1.429	0.443	22.3
Right tilted	802.11n-HT40	126/5630	94.85%	1.054	0.235	0.069	-0.07	13.45	15.00	1.429	0.354	22.3
Head Test Data of U-NII-3												
Left cheek	802.11ac-80M	155/5775	90.25%	1.108	0.533	0.147	0.02	12.78	14.50	1.486	0.878	22.3
Left tilted	802.11ac-80M	155/5775	90.25%	1.108	0.516	0.138	0.03	12.78	14.50	1.486	0.850	22.3
Right cheek	802.11ac-80M	155/5775	90.25%	1.108	0.280	0.073	0.07	12.78	14.50	1.486	0.461	22.3
Right tilted	802.11ac-80M	155/5775	90.25%	1.108	0.295	0.085	-0.11	12.78	14.50	1.486	0.486	22.3
Head Test Data of U-NII-2A with Simultaneous transmission												
Left cheek	802.11n-HT40	54/5270	94.85%	1.054	0.613	0.180	0.04	15.82	15.00	0.828	0.535	22.3
Left tilted	802.11n-HT40	54/5270	94.85%	1.054	0.383	0.128	-0.05	15.82	15.00	0.828	0.334	22.3
Right cheek	802.11n-HT40	54/5270	94.85%	1.054	0.170	0.056	0.05	15.82	15.00	0.828	0.148	22.3
Right tilted	802.11n-HT40	54/5270	94.85%	1.054	0.251	0.080	-0.13	15.82	15.00	0.828	0.219	22.3
Left cheek	802.11n-HT40	62/5310	94.85%	1.054	0.238	0.076	-0.09	12.20	14.00	1.514	0.380	22.3
Head Test Data of U-NII-2C with Simultaneous transmission												
Left cheek	802.11n-HT40	126/5630	94.85%	1.054	0.498	0.140	0.09	13.45	13.00	0.902	0.473	22.3
Left tilted	802.11n-HT40	126/5630	94.85%	1.054	0.409	0.119	-0.06	13.45	13.00	0.902	0.389	22.3
Right cheek	802.11n-HT40	126/5630	94.85%	1.054	0.294	0.085	-0.06	13.45	13.00	0.902	0.279	22.3
Right tilted	802.11n-HT40	126/5630	94.85%	1.054	0.235	0.069	-0.07	13.45	13.00	0.902	0.223	22.3
Head Test Data of U-NII-3 with Simultaneous transmission												
Left cheek	802.11ac-80M	155/5775	90.25%	1.108	0.533	0.147	0.02	12.78	12.00	0.836	0.493	22.3
Left tilted	802.11ac-80M	155/5775	90.25%	1.108	0.516	0.138	0.03	12.78	12.00	0.836	0.478	22.3
Right cheek	802.11ac-80M	155/5775	90.25%	1.108	0.280	0.073	0.07	12.78	12.00	0.836	0.259	22.3
Right tilted	802.11ac-80M	155/5775	90.25%	1.108	0.295	0.085	-0.11	12.78	12.00	0.836	0.273	22.3
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11a	60/5300	97.54%	1.025	0.155	0.036	-0.01	17.62	19.50	1.542	0.245	22.3
Back side	802.11a	60/5300	97.54%	1.025	0.301	0.116	-0.02	17.62	19.50	1.542	0.476	22.3
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11a	136/5680	97.54%	1.025	0.223	0.089	-0.17	18.12	19.50	1.374	0.314	22.3



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Back side	802.11a	136/5680	97.54%	1.025	0.655	0.245	0.04	18.12	19.50	1.374	0.923	22.3
Back side	802.11a	132/5660	97.54%	1.025	0.529	0.212	0.04	18.07	19.50	1.390	0.754	22.3
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11n-HT40	159/5795	97.54%	1.025	0.237	0.092	0.15	14.60	16.00	1.380	0.335	22.3
Back side	802.11n-HT40	159/5795	97.54%	1.025	0.309	0.113	-0.07	14.60	16.00	1.380	0.437	22.3
Body worn Test data of U-NII-2A (Separate 15mm) with Simultaneous transmission												
Front side	802.11a	60/5300	97.54%	1.025	0.155	0.036	-0.01	17.62	19.50	1.542	0.245	22.3
Back side	802.11a	60/5300	97.54%	1.025	0.301	0.116	-0.02	17.62	19.50	1.542	0.476	22.3
Body worn Test data of U-NII-2C (Separate 15mm) with Simultaneous transmission												
Front side	802.11a	136/5680	97.54%	1.025	0.223	0.089	-0.17	18.12	16.00	0.614	0.140	22.3
Back side	802.11a	136/5680	97.54%	1.025	0.655	0.245	0.04	18.12	16.00	0.614	0.412	22.3
Back side	802.11a	132/5660	97.54%	1.025	0.529	0.212	0.04	18.07	16.00	0.621	0.337	22.3
Body worn Test data of U-NII-3 (Separate 15mm) with Simultaneous transmission												
Front side	802.11n-HT40	159/5795	97.54%	1.025	0.237	0.092	0.15	14.60	15.00	1.096	0.266	22.3
Back side	802.11n-HT40	159/5795	97.54%	1.025	0.309	0.113	-0.07	14.60	15.00	1.096	0.347	22.3
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11a	48/5240	97.54%	1.025	0.174	0.066	0.14	17.58	19.50	1.556	0.278	22.3
Back side	802.11a	48/5240	97.54%	1.025	0.570	0.205	0.08	17.58	19.50	1.556	0.909	22.3
Right side	802.11a	48/5240	97.54%	1.025	0.325	0.128	-0.13	17.58	19.50	1.556	0.518	22.3
Top side	802.11a	48/5240	97.54%	1.025	0.207	0.076	-0.10	17.58	19.50	1.556	0.330	22.3
Back side	802.11a	44/5220	97.54%	1.025	0.533	0.192	0.06	17.57	19.50	1.560	0.852	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11n-HT40	159/5795	97.54%	1.025	0.332	0.120	-0.13	14.60	16.00	1.380	0.470	22.4
Back side	802.11n-HT40	159/5795	97.54%	1.025	0.492	0.165	0.02	14.60	16.00	1.380	0.696	22.4
Right side	802.11n-HT40	159/5795	97.54%	1.025	0.183	0.079	-0.13	14.60	16.00	1.380	0.259	22.4
Top side	802.11n-HT40	159/5795	97.54%	1.025	0.302	0.106	-0.07	14.60	16.00	1.380	0.427	22.4
Hotspot Test data of U-NII-1 (Separate 10mm) with Simultaneous transmission												
Front side	802.11a	48/5240	97.54%	1.025	0.174	0.066	0.14	17.58	18.00	1.102	0.197	22.3
Back side	802.11a	48/5240	97.54%	1.025	0.570	0.205	0.08	17.58	18.00	1.102	0.644	22.3
Right side	802.11a	48/5240	97.54%	1.025	0.325	0.128	-0.13	17.58	18.00	1.102	0.367	22.3
Top side	802.11a	48/5240	97.54%	1.025	0.207	0.076	-0.10	17.58	18.00	1.102	0.234	22.3
Back side	802.11a	44/5220	97.54%	1.025	0.533	0.192	0.06	17.57	18.00	1.104	0.603	22.3
Hotspot Test data of U-NII-3 (Separate 10mm) with Simultaneous transmission												
Front side	802.11n-HT40	159/5795	97.54%	1.025	0.332	0.120	-0.13	14.60	15.00	1.096	0.373	22.4
Back side	802.11n-HT40	159/5795	97.54%	1.025	0.492	0.165	0.02	14.60	15.00	1.096	0.553	22.4
Right side	802.11n-HT40	159/5795	97.54%	1.025	0.183	0.079	-0.13	14.60	15.00	1.096	0.206	22.4
Top side	802.11n-HT40	159/5795	97.54%	1.025	0.302	0.106	-0.07	14.60	15.00	1.096	0.339	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11a	60/5300	97.54%	1.025	1.360	0.389	0.15	17.62	19.50	1.542	0.615	22.3
Back side	802.11a	60/5300	97.54%	1.025	2.060	0.621	0.08	17.62	19.50	1.542	0.982	22.3
Right side	802.11a	60/5300	97.54%	1.025	1.960	0.598	-0.07	17.62	19.50	1.542	0.945	22.3



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Top side	802.11a	60/5300	97.54%	1.025	3.160	0.757	-0.10	17.62	19.50	1.542	1.197	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11a	136/5680	97.54%	1.025	2.500	0.683	-0.03	18.12	19.50	1.374	0.962	22.3
Back side	802.11a	136/5680	97.54%	1.025	3.850	1.030	-0.04	18.12	19.50	1.374	1.451	22.3
Right side	802.11a	136/5680	97.54%	1.025	3.320	1.050	0.19	18.12	19.50	1.374	1.479	22.3
Top side	802.11a	136/5680	97.54%	1.025	6.470	1.400	0.08	18.12	19.50	1.374	1.972	22.3

Table 35 : SAR of WIFI 5G for Head, Hotspot and Product specific 10gSAR.



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8.2.26 SAR Result of BT

Bluetooth SAR Test Record												
Ant22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-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	78/2480	77.22%	1.295	0.076	0.038	0.02	11.29	12.60	1.352	0.133	22.2
Left tilted	DH5	78/2480	77.22%	1.295	0.057	0.028	0.05	11.29	12.60	1.352	0.100	22.2
Right cheek	DH5	78/2480	77.22%	1.295	0.050	0.026	0.07	11.29	12.60	1.352	0.087	22.2
Right tilted	DH5	78/2480	77.22%	1.295	0.050	0.024	0.10	11.29	12.60	1.352	0.087	22.2
Body worn Test data (Separate 15mm)												
Front side	DH5	78/2480	77.22%	1.295	0.010	0.006	0.04	11.29	12.60	1.352	0.018	22.2
Back side	DH5	78/2480	77.22%	1.295	0.016	0.009	0.08	11.29	12.60	1.352	0.028	22.2
Hotspot Test data (Separate 10mm)												
Front side	DH5	78/2480	77.22%	1.295	0.015	0.008	0.07	11.29	12.60	1.352	0.026	22.2
Back side	DH5	78/2480	77.22%	1.295	0.039	0.019	0.02	11.29	12.60	1.352	0.069	22.2
Right side	DH5	78/2480	77.22%	1.295	0.026	0.012	-0.03	11.29	12.60	1.352	0.046	22.2
Top side	DH5	78/2480	77.22%	1.295	0.033	0.017	0.05	11.29	12.60	1.352	0.057	22.2

Table 36 : SAR of BT for Head, Body and Hotspot.

8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz ANT22	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz ANT22	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes
4	WWAN + WLAN 5GHz ANT22+ BT	Yes	Yes	Yes	Yes
5	WLAN 5GHz ANT22+ BT	Yes	Yes	Yes	Yes

Note:

- 1) The device does not support DTM function.
- 2) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.

8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant11	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Left cheek	0.393	0.355	0.535	0.133	0.748	0.928	0.526	1.061
	Left tilted	0.374	0.275	0.478	0.100	0.649	0.852	0.474	0.952
	Right cheek	0.955	0.247	0.279	0.087	1.202	1.234	1.042	1.321
	Right tilted	0.279	0.225	0.273	0.087	0.504	0.552	0.366	0.639
LTE B7	Left cheek	0.249	0.355	0.535	0.133	0.604	0.784	0.382	0.917
	Left tilted	0.215	0.275	0.478	0.100	0.490	0.693	0.315	0.793
	Right cheek	0.602	0.247	0.279	0.087	0.849	0.881	0.689	0.968
	Right tilted	0.356	0.225	0.273	0.087	0.581	0.629	0.443	0.716
LTE B41	Left cheek	0.233	0.355	0.535	0.133	0.588	0.768	0.366	0.901
	Left tilted	0.118	0.275	0.478	0.100	0.393	0.596	0.218	0.696
	Right cheek	0.770	0.247	0.279	0.087	1.017	1.049	0.857	1.136
	Right tilted	0.290	0.225	0.273	0.087	0.515	0.563	0.377	0.650
LTE B66	Left cheek	0.347	0.355	0.535	0.133	0.702	0.882	0.480	1.015
	Left tilted	0.235	0.275	0.478	0.100	0.510	0.713	0.335	0.813
	Right cheek	0.702	0.247	0.279	0.087	0.949	0.981	0.789	1.068
	Right tilted	0.291	0.225	0.273	0.087	0.516	0.564	0.378	0.651
N2	Left cheek	0.330	0.355	0.535	0.133	0.685	0.865	0.463	0.998
	Left tilted	0.298	0.275	0.478	0.100	0.573	0.776	0.398	0.876
	Right cheek	0.994	0.247	0.279	0.087	1.241	1.273	1.081	1.360
	Right tilted	0.369	0.225	0.273	0.087	0.594	0.642	0.456	0.729
N7	Left cheek	0.214	0.355	0.535	0.133	0.569	0.749	0.347	0.882
	Left tilted	0.183	0.275	0.478	0.100	0.458	0.661	0.283	0.761
	Right cheek	0.612	0.247	0.279	0.087	0.859	0.891	0.699	0.978
	Right tilted	0.340	0.225	0.273	0.087	0.565	0.613	0.427	0.700
N38	Left cheek	0.203	0.355	0.535	0.133	0.558	0.738	0.336	0.871
	Left tilted	0.143	0.275	0.478	0.100	0.418	0.621	0.243	0.721
	Right cheek	0.532	0.247	0.279	0.087	0.779	0.811	0.619	0.898
	Right tilted	0.249	0.225	0.273	0.087	0.474	0.522	0.336	0.609
N41	Left cheek	0.166	0.355	0.535	0.133	0.521	0.701	0.299	0.834
	Left tilted	0.162	0.275	0.478	0.100	0.437	0.640	0.262	0.740
	Right cheek	0.420	0.247	0.279	0.087	0.667	0.699	0.507	0.786
	Right tilted	0.236	0.225	0.273	0.087	0.461	0.509	0.323	0.596
N66	Left cheek	0.395	0.355	0.535	0.133	0.750	0.930	0.528	1.063
	Left tilted	0.300	0.275	0.478	0.100	0.575	0.778	0.400	0.878
	Right cheek	0.919	0.247	0.279	0.087	1.166	1.198	1.006	1.285
	Right tilted	0.310	0.225	0.273	0.087	0.535	0.583	0.397	0.670
N77	Left cheek	0.214	0.355	0.535	0.133	0.569	0.749	0.347	0.882
	Left tilted	0.088	0.275	0.478	0.100	0.363	0.566	0.188	0.666
	Right cheek	0.615	0.247	0.279	0.087	0.862	0.894	0.702	0.981
	Right tilted	0.136	0.225	0.273	0.087	0.361	0.409	0.223	0.496
N78	Left cheek	0.222	0.355	0.535	0.133	0.577	0.757	0.355	0.890
	Left tilted	0.085	0.275	0.478	0.100	0.360	0.563	0.185	0.663
	Right cheek	0.726	0.247	0.279	0.087	0.973	1.005	0.813	1.092
	Right tilted	0.143	0.225	0.273	0.087	0.368	0.416	0.230	0.503



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant13	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.453	0.355	0.535	0.133	0.808	0.988	0.586	1.121
	Left tilted	0.362	0.275	0.478	0.100	0.637	0.840	0.462	0.940
	Right cheek	0.486	0.247	0.279	0.087	0.733	0.765	0.573	0.852
	Right tilted	0.483	0.225	0.273	0.087	0.708	0.756	0.570	0.843
GSM1900	Left cheek	0.250	0.355	0.535	0.133	0.605	0.785	0.383	0.918
	Left tilted	0.318	0.275	0.478	0.100	0.593	0.796	0.418	0.896
	Right cheek	0.378	0.247	0.279	0.087	0.625	0.657	0.465	0.744
	Right tilted	0.508	0.225	0.273	0.087	0.733	0.781	0.595	0.868
WB2	Left cheek	0.520	0.355	0.535	0.133	0.875	1.055	0.653	1.188
	Left tilted	0.645	0.275	0.478	0.100	0.920	1.123	0.745	1.223
	Right cheek	0.795	0.247	0.279	0.087	1.042	1.074	0.882	1.161
	Right tilted	0.993	0.225	0.273	0.087	1.218	1.266	1.080	1.353
WB4	Left cheek	0.510	0.355	0.535	0.133	0.865	1.045	0.643	1.178
	Left tilted	0.631	0.275	0.478	0.100	0.906	1.109	0.731	1.209
	Right cheek	0.781	0.247	0.279	0.087	1.028	1.060	0.868	1.147
	Right tilted	0.868	0.225	0.273	0.087	1.093	1.141	0.955	1.228
WB5	Left cheek	0.601	0.355	0.535	0.133	0.956	1.136	0.734	1.269
	Left tilted	0.613	0.275	0.478	0.100	0.888	1.091	0.713	1.191
	Right cheek	0.684	0.247	0.279	0.087	0.931	0.963	0.771	1.050
	Right tilted	0.657	0.225	0.273	0.087	0.882	0.930	0.744	1.017
LTE B2	Left cheek	0.393	0.355	0.535	0.133	0.748	0.928	0.526	1.061
	Left tilted	0.374	0.275	0.478	0.100	0.649	0.852	0.474	0.952
	Right cheek	0.955	0.247	0.279	0.087	1.202	1.234	1.042	1.321
	Right tilted	0.279	0.225	0.273	0.087	0.504	0.552	0.366	0.639
LTE B7	Left cheek	0.311	0.355	0.535	0.133	0.666	0.846	0.444	0.979
	Left tilted	0.396	0.275	0.478	0.100	0.671	0.874	0.496	0.974
	Right cheek	0.639	0.247	0.279	0.087	0.886	0.918	0.726	1.005
	Right tilted	0.924	0.225	0.273	0.087	1.149	1.197	1.011	1.284
LTE B12	Left cheek	0.603	0.355	0.535	0.133	0.958	1.138	0.736	1.271
	Left tilted	0.636	0.275	0.478	0.100	0.911	1.114	0.736	1.214
	Right cheek	0.659	0.247	0.279	0.087	0.906	0.938	0.746	1.025
	Right tilted	0.595	0.225	0.273	0.087	0.820	0.868	0.682	0.955
LTE B13	Left cheek	0.589	0.355	0.535	0.133	0.944	1.124	0.722	1.257
	Left tilted	0.561	0.275	0.478	0.100	0.836	1.039	0.661	1.139
	Right cheek	0.768	0.247	0.279	0.087	1.015	1.047	0.855	1.134
	Right tilted	0.694	0.225	0.273	0.087	0.919	0.967	0.781	1.054
LTE B26	Left cheek	0.655	0.355	0.535	0.133	1.010	1.190	0.788	1.323
	Left tilted	0.662	0.275	0.478	0.100	0.937	1.140	0.762	1.240
	Right cheek	0.897	0.247	0.279	0.087	1.144	1.176	0.984	1.263
	Right tilted	0.765	0.225	0.273	0.087	0.990	1.038	0.852	1.125
LTE B41	Left cheek	0.270	0.355	0.535	0.133	0.625	0.805	0.403	0.938
	Left tilted	0.333	0.275	0.478	0.100	0.608	0.811	0.433	0.911
	Right cheek	0.749	0.247	0.279	0.087	0.996	1.028	0.836	1.115
	Right tilted	0.801	0.225	0.273	0.087	1.026	1.074	0.888	1.161
LTE B66	Left cheek	0.417	0.355	0.535	0.133	0.772	0.952	0.550	1.085
	Left tilted	0.490	0.275	0.478	0.100	0.765	0.968	0.590	1.068
	Right cheek	0.585	0.247	0.279	0.087	0.832	0.864	0.672	0.951
	Right tilted	0.667	0.225	0.273	0.087	0.892	0.940	0.754	1.027
N2	Left cheek	0.343	0.355	0.535	0.133	0.698	0.878	0.476	1.011
	Left tilted	0.425	0.275	0.478	0.100	0.700	0.903	0.525	1.003



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	Right cheek	0.677	0.247	0.279	0.087	0.924	0.956	0.764	1.043
	Right tilted	0.880	0.225	0.273	0.087	1.105	1.153	0.967	1.240
N5	Left cheek	0.716	0.355	0.535	0.133	1.071	1.251	0.849	1.384
	Left tilted	0.572	0.275	0.478	0.100	0.847	1.050	0.672	1.150
	Right cheek	0.909	0.247	0.279	0.087	1.156	1.188	0.996	1.275
	Right tilted	0.648	0.225	0.273	0.087	0.873	0.921	0.735	1.008
N7	Left cheek	0.289	0.355	0.535	0.133	0.644	0.824	0.422	0.957
	Left tilted	0.409	0.275	0.478	0.100	0.684	0.887	0.509	0.987
	Right cheek	0.590	0.247	0.279	0.087	0.837	0.869	0.677	0.956
	Right tilted	0.632	0.225	0.273	0.087	0.857	0.905	0.719	0.992
N26	Left cheek	0.111	0.355	0.535	0.133	0.466	0.646	0.244	0.779
	Left tilted	0.077	0.275	0.478	0.100	0.352	0.555	0.177	0.655
	Right cheek	0.064	0.247	0.279	0.087	0.311	0.343	0.151	0.430
	Right tilted	0.007	0.225	0.273	0.087	0.232	0.280	0.094	0.367
N38	Left cheek	0.303	0.355	0.535	0.133	0.658	0.838	0.436	0.971
	Left tilted	0.393	0.275	0.478	0.100	0.668	0.871	0.493	0.971
	Right cheek	0.766	0.247	0.279	0.087	1.013	1.045	0.853	1.132
	Right tilted	0.891	0.225	0.273	0.087	1.116	1.164	0.978	1.251
N41	Left cheek	0.317	0.355	0.535	0.133	0.672	0.852	0.450	0.985
	Left tilted	0.424	0.275	0.478	0.100	0.699	0.902	0.524	1.002
	Right cheek	0.797	0.247	0.279	0.087	1.044	1.076	0.884	1.163
	Right tilted	0.930	0.225	0.273	0.087	1.155	1.203	1.017	1.290
N66	Left cheek	0.370	0.355	0.535	0.133	0.725	0.905	0.503	1.038
	Left tilted	0.440	0.275	0.478	0.100	0.715	0.918	0.540	1.018
	Right cheek	0.610	0.247	0.279	0.087	0.857	0.889	0.697	0.976
	Right tilted	0.695	0.225	0.273	0.087	0.920	0.968	0.782	1.055



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant21	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.048	0.355	0.535	0.133	0.403	0.583	0.181	0.716
	Left tilted	0.057	0.275	0.478	0.100	0.332	0.535	0.157	0.635
	Right cheek	0.028	0.247	0.279	0.087	0.275	0.307	0.115	0.394
	Right tilted	0.038	0.225	0.273	0.087	0.263	0.311	0.125	0.398
N78	Left cheek	0.033	0.355	0.535	0.133	0.388	0.568	0.166	0.701
	Left tilted	0.039	0.275	0.478	0.100	0.314	0.517	0.139	0.617
	Right cheek	0.021	0.247	0.279	0.087	0.268	0.300	0.108	0.387
	Right tilted	0.026	0.225	0.273	0.087	0.251	0.299	0.113	0.386

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant23	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.567	0.355	0.535	0.133	0.922	1.102	0.700	1.235
	Left tilted	0.351	0.275	0.478	0.100	0.626	0.829	0.451	0.929
	Right cheek	0.265	0.247	0.279	0.087	0.512	0.544	0.352	0.631
	Right tilted	0.166	0.225	0.273	0.087	0.391	0.439	0.253	0.526
N78	Left cheek	0.559	0.355	0.535	0.133	0.914	1.094	0.692	1.227
	Left tilted	0.352	0.275	0.478	0.100	0.627	0.830	0.452	0.930
	Right cheek	0.298	0.247	0.279	0.087	0.545	0.577	0.385	0.664
	Right tilted	0.202	0.225	0.273	0.087	0.427	0.475	0.289	0.562



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant31	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.327	0.355	0.535	0.133	0.682	0.862	0.460	0.995
	Left tilted	0.175	0.275	0.478	0.100	0.450	0.653	0.275	0.753
	Right cheek	0.269	0.247	0.279	0.087	0.516	0.548	0.356	0.635
	Right tilted	0.108	0.225	0.273	0.087	0.333	0.381	0.195	0.468
GSM1900	Left cheek	0.140	0.355	0.535	0.133	0.495	0.675	0.273	0.808
	Left tilted	0.058	0.275	0.478	0.100	0.333	0.536	0.158	0.636
	Right cheek	0.153	0.247	0.279	0.087	0.400	0.432	0.240	0.519
	Right tilted	0.107	0.225	0.273	0.087	0.332	0.380	0.194	0.467
WB2	Left cheek	0.279	0.355	0.535	0.133	0.634	0.814	0.412	0.947
	Left tilted	0.158	0.275	0.478	0.100	0.433	0.636	0.258	0.736
	Right cheek	0.222	0.247	0.279	0.087	0.469	0.501	0.309	0.588
	Right tilted	0.169	0.225	0.273	0.087	0.394	0.442	0.256	0.529
WB4	Left cheek	0.124	0.355	0.535	0.133	0.479	0.659	0.257	0.792
	Left tilted	0.060	0.275	0.478	0.100	0.335	0.538	0.160	0.638
	Right cheek	0.083	0.247	0.279	0.087	0.330	0.362	0.170	0.449
	Right tilted	0.078	0.225	0.273	0.087	0.303	0.351	0.165	0.438
WB5	Left cheek	0.237	0.355	0.535	0.133	0.592	0.772	0.370	0.905
	Left tilted	0.140	0.275	0.478	0.100	0.415	0.618	0.240	0.718
	Right cheek	0.223	0.247	0.279	0.087	0.470	0.502	0.310	0.589
	Right tilted	0.119	0.225	0.273	0.087	0.344	0.392	0.206	0.479
LTE B2	Left cheek	0.214	0.355	0.535	0.133	0.569	0.749	0.347	0.882
	Left tilted	0.099	0.275	0.478	0.100	0.374	0.577	0.199	0.677
	Right cheek	0.180	0.247	0.279	0.087	0.427	0.459	0.267	0.546
	Right tilted	0.118	0.225	0.273	0.087	0.343	0.391	0.205	0.478
LTE B7	Left cheek	0.207	0.355	0.535	0.133	0.562	0.742	0.340	0.875
	Left tilted	0.152	0.275	0.478	0.100	0.427	0.630	0.252	0.730
	Right cheek	0.358	0.247	0.279	0.087	0.605	0.637	0.445	0.724
	Right tilted	0.175	0.225	0.273	0.087	0.400	0.448	0.262	0.535
LTE B12	Left cheek	0.133	0.355	0.535	0.133	0.488	0.668	0.266	0.801
	Left tilted	0.073	0.275	0.478	0.100	0.348	0.551	0.173	0.651
	Right cheek	0.130	0.247	0.279	0.087	0.377	0.409	0.217	0.496
	Right tilted	0.072	0.225	0.273	0.087	0.297	0.345	0.159	0.432
LTE B13	Left cheek	0.158	0.355	0.535	0.133	0.513	0.693	0.291	0.826
	Left tilted	0.103	0.275	0.478	0.100	0.378	0.581	0.203	0.681
	Right cheek	0.138	0.247	0.279	0.087	0.385	0.417	0.225	0.504
	Right tilted	0.076	0.225	0.273	0.087	0.301	0.349	0.163	0.436
LTE B26	Left cheek	0.178	0.355	0.535	0.133	0.533	0.713	0.311	0.846
	Left tilted	0.106	0.275	0.478	0.100	0.381	0.584	0.206	0.684
	Right cheek	0.173	0.247	0.279	0.087	0.420	0.452	0.260	0.539
	Right tilted	0.090	0.225	0.273	0.087	0.315	0.363	0.177	0.450
LTE B41	Left cheek	0.178	0.355	0.535	0.133	0.533	0.713	0.311	0.846
	Left tilted	0.109	0.275	0.478	0.100	0.384	0.587	0.209	0.687
	Right cheek	0.314	0.247	0.279	0.087	0.561	0.593	0.401	0.680
	Right tilted	0.161	0.225	0.273	0.087	0.386	0.434	0.248	0.521
LTE B66	Left cheek	0.112	0.355	0.535	0.133	0.467	0.647	0.245	0.780
	Left tilted	0.052	0.275	0.478	0.100	0.327	0.530	0.152	0.630
	Right cheek	0.075	0.247	0.279	0.087	0.322	0.354	0.162	0.441
	Right tilted	0.063	0.225	0.273	0.087	0.288	0.336	0.150	0.423
N2	Left cheek	0.196	0.355	0.535	0.133	0.551	0.731	0.329	0.864
	Left tilted	0.093	0.275	0.478	0.100	0.368	0.571	0.193	0.671



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	Right cheek	0.179	0.247	0.279	0.087	0.426	0.458	0.266	0.545
	Right tilted	0.124	0.225	0.273	0.087	0.349	0.397	0.211	0.484
N5	Left cheek	0.133	0.355	0.535	0.133	0.488	0.668	0.266	0.801
	Left tilted	0.094	0.275	0.478	0.100	0.369	0.572	0.194	0.672
	Right cheek	0.081	0.247	0.279	0.087	0.328	0.360	0.168	0.447
	Right tilted	0.006	0.225	0.273	0.087	0.231	0.279	0.093	0.366
N7	Left cheek	0.201	0.355	0.535	0.133	0.556	0.736	0.334	0.869
	Left tilted	0.113	0.275	0.478	0.100	0.388	0.591	0.213	0.691
	Right cheek	0.357	0.247	0.279	0.087	0.604	0.636	0.444	0.723
	Right tilted	0.248	0.225	0.273	0.087	0.473	0.521	0.335	0.608
N26	Left cheek	0.111	0.355	0.535	0.133	0.466	0.646	0.244	0.779
	Left tilted	0.077	0.275	0.478	0.100	0.352	0.555	0.177	0.655
	Right cheek	0.064	0.247	0.279	0.087	0.311	0.343	0.151	0.430
	Right tilted	0.007	0.225	0.273	0.087	0.232	0.280	0.094	0.367
N38	Left cheek	0.154	0.355	0.535	0.133	0.509	0.689	0.287	0.822
	Left tilted	0.121	0.275	0.478	0.100	0.396	0.599	0.221	0.699
	Right cheek	0.294	0.247	0.279	0.087	0.541	0.573	0.381	0.660
	Right tilted	0.108	0.225	0.273	0.087	0.333	0.381	0.195	0.468
N41	Left cheek	0.222	0.355	0.535	0.133	0.577	0.757	0.355	0.890
	Left tilted	0.140	0.275	0.478	0.100	0.415	0.618	0.240	0.718
	Right cheek	0.590	0.247	0.279	0.087	0.837	0.869	0.677	0.956
	Right tilted	0.103	0.225	0.273	0.087	0.328	0.376	0.190	0.463
N66	Left cheek	0.119	0.355	0.535	0.133	0.474	0.654	0.252	0.787
	Left tilted	0.066	0.275	0.478	0.100	0.341	0.544	0.166	0.644
	Right cheek	0.079	0.247	0.279	0.087	0.326	0.358	0.166	0.445
	Right tilted	0.072	0.225	0.273	0.087	0.297	0.345	0.159	0.432



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant101	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.021	0.355	0.535	0.133	0.376	0.556	0.154	0.689
	Left tilted	0.019	0.275	0.478	0.100	0.294	0.497	0.119	0.597
	Right cheek	0.041	0.247	0.279	0.087	0.288	0.320	0.128	0.407
	Right tilted	0.036	0.225	0.273	0.087	0.261	0.309	0.123	0.396
N78	Left cheek	0.020	0.355	0.535	0.133	0.375	0.555	0.153	0.688
	Left tilted	0.019	0.275	0.478	0.100	0.294	0.497	0.119	0.597
	Right cheek	0.043	0.247	0.279	0.087	0.290	0.322	0.130	0.409
	Right tilted	0.037	0.225	0.273	0.087	0.262	0.310	0.124	0.397

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_4A-5A	Left cheek	0.576	0.355	0.535	0.133	0.931	1.111	0.709	1.244
	Left tilted	0.521	0.275	0.478	0.100	0.796	0.999	0.621	1.099
	Right cheek	0.710	0.247	0.279	0.087	0.957	0.989	0.797	1.076
	Right tilted	0.620	0.225	0.273	0.087	0.845	0.893	0.707	0.980
CA_4A-7A	Left cheek	0.564	0.355	0.535	0.133	0.919	1.099	0.697	1.232
	Left tilted	0.590	0.275	0.478	0.100	0.865	1.068	0.690	1.168
	Right cheek	1.027	0.247	0.279	0.087	1.274	1.306	1.114	1.393
	Right tilted	0.862	0.225	0.273	0.087	1.087	1.135	0.949	1.222
CA_5A-7A	Left cheek	0.671	0.355	0.535	0.133	1.026	1.206	0.804	1.339
	Left tilted	0.621	0.275	0.478	0.100	0.896	1.099	0.721	1.199
	Right cheek	0.993	0.247	0.279	0.087	1.240	1.272	1.080	1.359
	Right tilted	1.014	0.225	0.273	0.087	1.239	1.287	1.101	1.374



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Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B7	Left cheek	0.439	0.355	0.535	0.133	0.794	0.974	0.572	1.107
	Left tilted	0.440	0.275	0.478	0.100	0.715	0.918	0.540	1.018
	Right cheek	0.985	0.247	0.279	0.087	1.232	1.264	1.072	1.351
	Right tilted	0.770	0.225	0.273	0.087	0.995	1.043	0.857	1.130
n2-B66	Left cheek	0.344	0.355	0.535	0.133	0.699	0.879	0.477	1.012
	Left tilted	0.340	0.275	0.478	0.100	0.615	0.818	0.440	0.918
	Right cheek	0.702	0.247	0.279	0.087	0.949	0.981	0.789	1.068
	Right tilted	0.658	0.225	0.273	0.087	0.883	0.931	0.745	1.018
n5-B7	Left cheek	0.551	0.355	0.535	0.133	0.906	1.086	0.684	1.219
	Left tilted	0.447	0.275	0.478	0.100	0.722	0.925	0.547	1.025
	Right cheek	0.814	0.247	0.279	0.087	1.061	1.093	0.901	1.180
	Right tilted	0.551	0.225	0.273	0.087	0.776	0.824	0.638	0.911
n7-B2	Left cheek	0.503	0.355	0.535	0.133	0.858	1.038	0.636	1.171
	Left tilted	0.508	0.275	0.478	0.100	0.783	0.986	0.608	1.086
	Right cheek	0.792	0.247	0.279	0.087	1.039	1.071	0.879	1.158
	Right tilted	0.750	0.225	0.273	0.087	0.975	1.023	0.837	1.110
n7-B66	Left cheek	0.401	0.355	0.535	0.133	0.756	0.936	0.534	1.069
	Left tilted	0.461	0.275	0.478	0.100	0.736	0.939	0.561	1.039
	Right cheek	0.687	0.247	0.279	0.087	0.934	0.966	0.774	1.053
	Right tilted	0.695	0.225	0.273	0.087	0.920	0.968	0.782	1.055
n26-B7	Left cheek	0.637	0.355	0.535	0.133	0.992	1.172	0.770	1.305
	Left tilted	0.639	0.275	0.478	0.100	0.914	1.117	0.739	1.217
	Right cheek	0.946	0.247	0.279	0.087	1.193	1.225	1.033	1.312
	Right tilted	0.795	0.225	0.273	0.087	1.020	1.068	0.882	1.155
n38-B66	Left cheek	0.415	0.355	0.535	0.133	0.770	0.950	0.548	1.083
	Left tilted	0.445	0.275	0.478	0.100	0.720	0.923	0.545	1.023
	Right cheek	0.841	0.247	0.279	0.087	1.088	1.120	0.928	1.207
	Right tilted	0.954	0.225	0.273	0.087	1.179	1.227	1.041	1.314
n41-B66	Left cheek	0.429	0.355	0.535	0.133	0.784	0.964	0.562	1.097
	Left tilted	0.476	0.275	0.478	0.100	0.751	0.954	0.576	1.054
	Right cheek	0.872	0.247	0.279	0.087	1.119	1.151	0.959	1.238
	Right tilted	0.993	0.225	0.273	0.087	1.218	1.266	1.080	1.353
n66-B2	Left cheek	0.584	0.355	0.535	0.133	0.939	1.119	0.717	1.252
	Left tilted	0.539	0.275	0.478	0.100	0.814	1.017	0.639	1.117
	Right cheek	0.790	0.247	0.279	0.087	1.037	1.069	0.877	1.156
	Right tilted	0.813	0.225	0.273	0.087	1.038	1.086	0.900	1.173
n66-B5	Left cheek	0.548	0.355	0.535	0.133	0.903	1.083	0.681	1.216
	Left tilted	0.546	0.275	0.478	0.100	0.821	1.024	0.646	1.124
	Right cheek	0.783	0.247	0.279	0.087	1.030	1.062	0.870	1.149
	Right tilted	0.785	0.225	0.273	0.087	1.010	1.058	0.872	1.145
n66-B7	Left cheek	0.577	0.355	0.535	0.133	0.932	1.112	0.710	1.245
	Left tilted	0.592	0.275	0.478	0.100	0.867	1.070	0.692	1.170
	Right cheek	0.968	0.247	0.279	0.087	1.215	1.247	1.055	1.334
	Right tilted	0.870	0.225	0.273	0.087	1.095	1.143	0.957	1.230
n77-B7	Left cheek	0.712	0.355	0.535	0.133	1.067	1.247	0.845	1.380
	Left tilted	0.471	0.275	0.478	0.100	0.746	0.949	0.571	1.049
	Right cheek	0.973	0.247	0.279	0.087	1.220	1.252	1.060	1.339
	Right tilted	0.516	0.225	0.273	0.087	0.741	0.789	0.603	0.876
n78-B2	Left cheek	0.501	0.355	0.535	0.133	0.856	1.036	0.634	1.169
	Left tilted	0.473	0.275	0.478	0.100	0.748	0.951	0.573	1.051



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	Right cheek	0.670	0.247	0.279	0.087	0.917	0.949	0.757	1.036
	Right tilted	0.613	0.225	0.273	0.087	0.838	0.886	0.700	0.973
n78-B5	Left cheek	0.687	0.355	0.535	0.133	1.042	1.222	0.820	1.355
	Left tilted	0.609	0.275	0.478	0.100	0.884	1.087	0.709	1.187
	Right cheek	0.924	0.247	0.279	0.087	1.171	1.203	1.011	1.290
	Right tilted	0.622	0.225	0.273	0.087	0.847	0.895	0.709	0.982
n78-B7	Left cheek	0.430	0.355	0.535	0.133	0.785	0.965	0.563	1.098
	Left tilted	0.298	0.275	0.478	0.100	0.573	0.776	0.398	0.876
	Right cheek	0.647	0.247	0.279	0.087	0.894	0.926	0.734	1.013
	Right tilted	0.448	0.225	0.273	0.087	0.673	0.721	0.535	0.808
n78-B41	Left cheek	0.437	0.355	0.535	0.133	0.792	0.972	0.570	1.105
	Left tilted	0.404	0.275	0.478	0.100	0.679	0.882	0.504	0.982
	Right cheek	0.884	0.247	0.279	0.087	1.131	1.163	0.971	1.250
	Right tilted	0.716	0.225	0.273	0.087	0.941	0.989	0.803	1.076
n78-B66	Left cheek	0.640	0.355	0.535	0.133	0.995	1.175	0.773	1.308
	Left tilted	0.630	0.275	0.478	0.100	0.905	1.108	0.730	1.208
	Right cheek	0.874	0.247	0.279	0.087	1.121	1.153	0.961	1.240
	Right tilted	0.747	0.225	0.273	0.087	0.972	1.020	0.834	1.107

Test position	SARmax (W/kg)		Summed SAR
	WiFi 5G Ant22	BT	
	1	2	
Left cheek	0.952	0.133	1.085
Left tilted	0.850	0.100	0.950
Right cheek	0.461	0.087	0.548
Right tilted	0.486	0.087	0.573



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Body:

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant11	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.208	0.048	0.266	0.018	0.256	0.474	0.226	0.492
	Back side	0.252	0.090	0.476	0.028	0.342	0.728	0.280	0.756
LTE B7	Front side	0.142	0.048	0.266	0.018	0.190	0.408	0.160	0.426
	Back side	0.322	0.090	0.476	0.028	0.412	0.798	0.350	0.826
LTE B41	Front side	0.105	0.048	0.266	0.018	0.153	0.371	0.123	0.389
	Back side	0.261	0.090	0.476	0.028	0.351	0.737	0.289	0.765
LTE B66	Front side	0.161	0.048	0.266	0.018	0.209	0.427	0.179	0.445
	Back side	0.265	0.090	0.476	0.028	0.355	0.741	0.293	0.769
N2	Front side	0.137	0.048	0.266	0.018	0.185	0.403	0.155	0.421
	Back side	0.217	0.090	0.476	0.028	0.307	0.693	0.245	0.721
N7	Front side	0.172	0.048	0.266	0.018	0.220	0.438	0.190	0.456
	Back side	0.264	0.090	0.476	0.028	0.354	0.740	0.292	0.768
N38	Front side	0.084	0.048	0.266	0.018	0.132	0.350	0.102	0.368
	Back side	0.218	0.090	0.476	0.028	0.308	0.694	0.246	0.722
N41	Front side	0.105	0.048	0.266	0.018	0.153	0.371	0.123	0.389
	Back side	0.301	0.090	0.476	0.028	0.391	0.777	0.329	0.805
N66	Front side	0.139	0.048	0.266	0.018	0.187	0.405	0.157	0.423
	Back side	0.203	0.090	0.476	0.028	0.293	0.679	0.231	0.707
N77	Front side	0.127	0.048	0.266	0.018	0.175	0.393	0.145	0.411
	Back side	0.403	0.090	0.476	0.028	0.493	0.879	0.431	0.907
N78	Front side	0.131	0.048	0.266	0.018	0.179	0.397	0.149	0.415
	Back side	0.376	0.090	0.476	0.028	0.466	0.852	0.404	0.880



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant13	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.238	0.048	0.266	0.018	0.286	0.504	0.256	0.522
	Back side	0.366	0.090	0.476	0.028	0.456	0.842	0.394	0.870
GSM1900	Front side	0.120	0.048	0.266	0.018	0.168	0.386	0.138	0.404
	Back side	0.132	0.090	0.476	0.028	0.222	0.608	0.160	0.636
WB2	Front side	0.214	0.048	0.266	0.018	0.262	0.480	0.232	0.498
	Back side	0.300	0.090	0.476	0.028	0.390	0.776	0.328	0.804
WB4	Front side	0.199	0.048	0.266	0.018	0.247	0.465	0.217	0.483
	Back side	0.233	0.090	0.476	0.028	0.323	0.709	0.261	0.737
WB5	Front side	0.163	0.048	0.266	0.018	0.211	0.429	0.181	0.447
	Back side	0.355	0.090	0.476	0.028	0.445	0.831	0.383	0.859
LTE B2	Front side	0.251	0.048	0.266	0.018	0.299	0.517	0.269	0.535
	Back side	0.357	0.090	0.476	0.028	0.447	0.833	0.385	0.861
LTE B7	Front side	0.183	0.048	0.266	0.018	0.231	0.449	0.201	0.467
	Back side	0.467	0.090	0.476	0.028	0.557	0.943	0.495	0.971
LTE B12	Front side	0.137	0.048	0.266	0.018	0.185	0.403	0.155	0.421
	Back side	0.233	0.090	0.476	0.028	0.323	0.709	0.261	0.737
LTE B13	Front side	0.122	0.048	0.266	0.018	0.170	0.388	0.140	0.406
	Back side	0.302	0.090	0.476	0.028	0.392	0.778	0.330	0.806
LTE B26	Front side	0.153	0.048	0.266	0.018	0.201	0.419	0.171	0.437
	Back side	0.377	0.090	0.476	0.028	0.467	0.853	0.405	0.881
LTE B41	Front side	0.191	0.048	0.266	0.018	0.239	0.457	0.209	0.475
	Back side	0.389	0.090	0.476	0.028	0.479	0.865	0.417	0.893
LTE B66	Front side	0.218	0.048	0.266	0.018	0.266	0.484	0.236	0.502
	Back side	0.251	0.090	0.476	0.028	0.341	0.727	0.279	0.755
N2	Front side	0.268	0.048	0.266	0.018	0.316	0.534	0.286	0.552
	Back side	0.430	0.090	0.476	0.028	0.520	0.906	0.458	0.934
N5	Front side	0.233	0.048	0.266	0.018	0.281	0.499	0.251	0.517
	Back side	0.339	0.090	0.476	0.028	0.429	0.815	0.367	0.843
N7	Front side	0.236	0.048	0.266	0.018	0.284	0.502	0.254	0.520
	Back side	0.587	0.090	0.476	0.028	0.677	1.063	0.615	1.091
N26	Front side	0.169	0.048	0.266	0.018	0.217	0.435	0.187	0.453
	Back side	0.328	0.090	0.476	0.028	0.418	0.804	0.356	0.832
N38	Front side	0.335	0.048	0.266	0.018	0.383	0.601	0.353	0.619
	Back side	0.556	0.090	0.476	0.028	0.646	1.032	0.584	1.060
N41	Front side	0.294	0.048	0.266	0.018	0.342	0.560	0.312	0.578
	Back side	0.623	0.090	0.476	0.028	0.713	1.099	0.651	1.127
N66	Front side	0.214	0.048	0.266	0.018	0.262	0.480	0.232	0.498
	Back side	0.268	0.090	0.476	0.028	0.358	0.744	0.296	0.772

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant21	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.009	0.048	0.266	0.018	0.057	0.275	0.027	0.293
	Back side	0.012	0.090	0.476	0.028	0.102	0.488	0.040	0.516
N78	Front side	0.010	0.048	0.266	0.018	0.058	0.276	0.028	0.294
	Back side	0.015	0.090	0.476	0.028	0.105	0.491	0.043	0.519

Test position	SARmax (W/kg)	Summed SAR
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		Main Ant23	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.143	0.048	0.266	0.018	0.191	0.409	0.161	0.427
	Back side	0.315	0.090	0.476	0.028	0.405	0.791	0.343	0.819
N78	Front side	0.114	0.048	0.266	0.018	0.162	0.380	0.132	0.398
	Back side	0.267	0.090	0.476	0.028	0.357	0.743	0.295	0.771

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant31	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.197	0.048	0.266	0.018	0.245	0.463	0.215	0.481
	Back side	0.226	0.090	0.476	0.028	0.316	0.702	0.254	0.730
GSM1900	Front side	0.163	0.048	0.266	0.018	0.211	0.429	0.181	0.447
	Back side	0.253	0.090	0.476	0.028	0.343	0.729	0.281	0.757
WB2	Front side	0.422	0.048	0.266	0.018	0.470	0.688	0.440	0.706
	Back side	0.606	0.090	0.476	0.028	0.696	1.082	0.634	1.110
WB4	Front side	0.253	0.048	0.266	0.018	0.301	0.519	0.271	0.537
	Back side	0.387	0.090	0.476	0.028	0.477	0.863	0.415	0.891
WB5	Front side	0.187	0.048	0.266	0.018	0.235	0.453	0.205	0.471
	Back side	0.218	0.090	0.476	0.028	0.308	0.694	0.246	0.722
LTE B2	Front side	0.315	0.048	0.266	0.018	0.363	0.581	0.333	0.599
	Back side	0.509	0.090	0.476	0.028	0.599	0.985	0.537	1.013
LTE B7	Front side	0.204	0.048	0.266	0.018	0.252	0.470	0.222	0.488
	Back side	0.249	0.090	0.476	0.028	0.339	0.725	0.277	0.753
LTE B12	Front side	0.191	0.048	0.266	0.018	0.239	0.457	0.209	0.475
	Back side	0.250	0.090	0.476	0.028	0.340	0.726	0.278	0.754
LTE B13	Front side	0.177	0.048	0.266	0.018	0.225	0.443	0.195	0.461
	Back side	0.209	0.090	0.476	0.028	0.299	0.685	0.237	0.713
LTE B26	Front side	0.151	0.048	0.266	0.018	0.199	0.417	0.169	0.435
	Back side	0.174	0.090	0.476	0.028	0.264	0.650	0.202	0.678
LTE B41	Front side	0.178	0.048	0.266	0.018	0.226	0.444	0.196	0.462
	Back side	0.239	0.090	0.476	0.028	0.329	0.715	0.267	0.743
LTE B66	Front side	0.228	0.048	0.266	0.018	0.276	0.494	0.246	0.512
	Back side	0.433	0.090	0.476	0.028	0.523	0.909	0.461	0.937
N2	Front side	0.305	0.048	0.266	0.018	0.353	0.571	0.323	0.589
	Back side	0.493	0.090	0.476	0.028	0.583	0.969	0.521	0.997
N5	Front side	0.105	0.048	0.266	0.018	0.153	0.371	0.123	0.389
	Back side	0.154	0.090	0.476	0.028	0.244	0.630	0.182	0.658
N7	Front side	0.173	0.048	0.266	0.018	0.221	0.439	0.191	0.457
	Back side	0.357	0.090	0.476	0.028	0.447	0.833	0.385	0.861
N26	Front side	0.088	0.048	0.266	0.018	0.136	0.354	0.106	0.372
	Back side	0.129	0.090	0.476	0.028	0.219	0.605	0.157	0.633
N38	Front side	0.236	0.048	0.266	0.018	0.284	0.502	0.254	0.520
	Back side	0.283	0.090	0.476	0.028	0.373	0.759	0.311	0.787
N41	Front side	0.214	0.048	0.266	0.018	0.262	0.480	0.232	0.498
	Back side	0.384	0.090	0.476	0.028	0.474	0.860	0.412	0.888
N66	Front side	0.281	0.048	0.266	0.018	0.329	0.547	0.299	0.565
	Back side	0.444	0.090	0.476	0.028	0.534	0.920	0.472	0.948

Test position	SARmax (W/kg)	Summed SAR
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		Main Ant101	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.008	0.048	0.266	0.018	0.056	0.274	0.026	0.292
	Back side	0.012	0.090	0.476	0.028	0.102	0.488	0.040	0.516
N78	Front side	0.006	0.048	0.266	0.018	0.054	0.272	0.024	0.290
	Back side	0.025	0.090	0.476	0.028	0.115	0.501	0.053	0.529

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_4A-5A	Front side	0.576	0.048	0.266	0.018	0.624	0.842	0.594	0.860
	Back side	0.521	0.090	0.476	0.028	0.611	0.997	0.549	1.025
CA_4A-7A	Front side	0.370	0.048	0.266	0.018	0.418	0.636	0.388	0.654
	Back side	0.755	0.090	0.476	0.028	0.845	1.231	0.783	1.259
CA_5A-7A	Front side	0.357	0.048	0.266	0.018	0.405	0.623	0.375	0.641
	Back side	0.641	0.090	0.476	0.028	0.731	1.117	0.669	1.145



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Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B7	Front side	0.472	0.048	0.266	0.018	0.520	0.738	0.490	0.756
	Back side	0.679	0.090	0.476	0.028	0.769	1.155	0.707	1.183
n2-B66	Front side	0.401	0.048	0.266	0.018	0.449	0.667	0.419	0.685
	Back side	0.673	0.090	0.476	0.028	0.763	1.149	0.701	1.177
n5-B7	Front side	0.375	0.048	0.266	0.018	0.423	0.641	0.393	0.659
	Back side	0.661	0.090	0.476	0.028	0.751	1.137	0.689	1.165
n7-B2	Front side	0.487	0.048	0.266	0.018	0.535	0.753	0.505	0.771
	Back side	0.839	0.090	0.476	0.028	0.929	1.315	0.867	1.343
n7-B66	Front side	0.305	0.048	0.266	0.018	0.353	0.571	0.323	0.589
	Back side	0.573	0.090	0.476	0.028	0.663	1.049	0.601	1.077
n26-B7	Front side	0.311	0.048	0.266	0.018	0.359	0.577	0.329	0.595
	Back side	0.650	0.090	0.476	0.028	0.740	1.126	0.678	1.154
n38-B66	Front side	0.468	0.048	0.266	0.018	0.516	0.734	0.486	0.752
	Back side	0.799	0.090	0.476	0.028	0.889	1.275	0.827	1.303
n41-B66	Front side	0.427	0.048	0.266	0.018	0.475	0.693	0.445	0.711
	Back side	0.866	0.090	0.476	0.028	0.956	1.342	0.894	1.370
n66-B2	Front side	0.529	0.048	0.266	0.018	0.577	0.795	0.547	0.813
	Back side	0.777	0.090	0.476	0.028	0.867	1.253	0.805	1.281
n66-B5	Front side	0.365	0.048	0.266	0.018	0.413	0.631	0.383	0.649
	Back side	0.442	0.090	0.476	0.028	0.532	0.918	0.470	0.946
n66-B7	Front side	0.418	0.048	0.266	0.018	0.466	0.684	0.436	0.702
	Back side	0.517	0.090	0.476	0.028	0.607	0.993	0.545	1.021
n77-B7	Front side	0.347	0.048	0.266	0.018	0.395	0.613	0.365	0.631
	Back side	0.870	0.090	0.476	0.028	0.960	1.346	0.898	1.374
n78-B2	Front side	0.446	0.048	0.266	0.018	0.494	0.712	0.464	0.730
	Back side	0.885	0.090	0.476	0.028	0.975	1.361	0.913	1.389
n78-B5	Front side	0.284	0.048	0.266	0.018	0.332	0.550	0.302	0.568
	Back side	0.753	0.090	0.476	0.028	0.843	1.229	0.781	1.257
n78-B7	Front side	0.335	0.048	0.266	0.018	0.383	0.601	0.353	0.619
	Back side	0.843	0.090	0.476	0.028	0.933	1.319	0.871	1.347
n78-B41	Front side	0.322	0.048	0.266	0.018	0.370	0.588	0.340	0.606
	Back side	0.765	0.090	0.476	0.028	0.855	1.241	0.793	1.269
n78-B66	Front side	0.349	0.048	0.266	0.018	0.397	0.615	0.367	0.633
	Back side	0.627	0.090	0.476	0.028	0.717	1.103	0.655	1.131

Test position	SARmax (W/kg)		Summed SAR
	WiFi 5G Ant22	BT	
	1	2	1+2
Front side	0.335	0.018	0.353
Back side	0.923	0.028	0.951



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Hotspot:

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant11	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.169	0.077	0.373	0.026	0.246	0.542	0.195	0.568
	Back side	0.276	0.198	0.644	0.069	0.474	0.920	0.345	0.989
	Left side	0.181	/	/	/	0.181	0.181	0.181	0.181
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.087	0.123	0.339	0.057	0.210	0.426	0.144	0.483
	Bottom side	/	/	/	/	/	/	/	/
LTE B7	Front side	0.159	0.077	0.373	0.026	0.236	0.532	0.185	0.558
	Back side	0.379	0.198	0.644	0.069	0.577	1.023	0.448	1.092
	Left side	0.269	/	/	/	0.269	0.269	0.269	0.269
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.094	0.123	0.339	0.057	0.217	0.433	0.151	0.490
	Bottom side	/	/	/	/	/	/	/	/
LTE B41	Front side	0.139	0.077	0.373	0.026	0.216	0.512	0.165	0.538
	Back side	0.387	0.198	0.644	0.069	0.585	1.031	0.456	1.100
	Left side	0.213	/	/	/	0.213	0.213	0.213	0.213
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.078	0.123	0.339	0.057	0.201	0.417	0.135	0.474
	Bottom side	/	/	/	/	/	/	/	/
LTE B66	Front side	0.178	0.077	0.373	0.026	0.255	0.551	0.204	0.577
	Back side	0.367	0.198	0.644	0.069	0.565	1.011	0.436	1.080
	Left side	0.333	/	/	/	0.333	0.333	0.333	0.333
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.010	0.123	0.339	0.057	0.133	0.349	0.067	0.406
	Bottom side	/	/	/	/	/	/	/	/
N2	Front side	0.104	0.077	0.373	0.026	0.181	0.477	0.130	0.503
	Back side	0.243	0.198	0.644	0.069	0.441	0.887	0.312	0.956
	Left side	0.172	/	/	/	0.172	0.172	0.172	0.172
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.067	0.123	0.339	0.057	0.190	0.406	0.124	0.463
	Bottom side	/	/	/	/	/	/	/	/
N7	Front side	0.173	0.077	0.373	0.026	0.250	0.546	0.199	0.572
	Back side	0.345	0.198	0.644	0.069	0.543	0.989	0.414	1.058
	Left side	0.194	/	/	/	0.194	0.194	0.194	0.194
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.079	0.123	0.339	0.057	0.202	0.418	0.136	0.475
	Bottom side	/	/	/	/	/	/	/	/
N38	Front side	0.098	0.077	0.373	0.026	0.175	0.471	0.124	0.497
	Back side	0.277	0.198	0.644	0.069	0.475	0.921	0.346	0.990
	Left side	0.184	/	/	/	0.184	0.184	0.184	0.184
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.007	0.123	0.339	0.057	0.130	0.346	0.064	0.403
	Bottom side	/	/	/	/	/	/	/	/
N41	Front side	0.122	0.077	0.373	0.026	0.199	0.495	0.148	0.521
	Back side	0.365	0.198	0.644	0.069	0.563	1.009	0.434	1.078



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	Left side	0.201	/	/	/	0.201	0.201	0.201	0.201
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.005	0.123	0.339	0.057	0.128	0.344	0.062	0.401
	Bottom side	/	/	/	/	/	/	/	/
N66	Front side	0.119	0.077	0.373	0.026	0.196	0.492	0.145	0.518
	Back side	0.231	0.198	0.644	0.069	0.429	0.875	0.300	0.944
	Left side	0.225	/	/	/	0.225	0.225	0.225	0.225
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.005	0.123	0.339	0.057	0.128	0.344	0.062	0.401
	Bottom side	/	/	/	/	/	/	/	/
N77	Front side	0.141	0.077	0.373	0.026	0.218	0.514	0.167	0.540
	Back side	0.459	0.198	0.644	0.069	0.657	1.103	0.528	1.172
	Left side	0.711	/	/	/	0.711	0.711	0.711	0.711
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.054	0.123	0.339	0.057	0.177	0.393	0.111	0.450
	Bottom side	/	/	/	/	/	/	/	/
N78	Front side	0.151	0.077	0.373	0.026	0.228	0.524	0.177	0.550
	Back side	0.498	0.198	0.644	0.069	0.696	1.142	0.567	1.211
	Left side	0.589	/	/	/	0.589	0.589	0.589	0.589
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.069	0.123	0.339	0.057	0.192	0.408	0.126	0.465
	Bottom side	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant13	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.280	0.077	0.373	0.026	0.357	0.653	0.306	0.679
	Back side	0.420	0.198	0.644	0.069	0.618	1.064	0.489	1.133
	Left side	0.125	/	/	/	0.125	0.125	0.125	0.125
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.278	0.123	0.339	0.057	0.401	0.617	0.335	0.674
	Bottom side	/	/	/	/	/	/	/	/
GSM1900	Front side	0.292	0.077	0.373	0.026	0.369	0.665	0.318	0.691
	Back side	0.307	0.198	0.644	0.069	0.505	0.951	0.376	1.020
	Left side	0.016	/	/	/	0.016	0.016	0.016	0.016
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.506	0.123	0.339	0.057	0.629	0.845	0.563	0.902
	Bottom side	/	/	/	/	/	/	/	/
WB2	Front side	0.314	0.077	0.373	0.026	0.391	0.687	0.340	0.713
	Back side	0.443	0.198	0.644	0.069	0.641	1.087	0.512	1.156
	Left side	0.077	/	/	/	0.077	0.077	0.077	0.077
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.593	0.123	0.339	0.057	0.716	0.932	0.650	0.989
	Bottom side	/	/	/	/	/	/	/	/
WB4	Front side	0.299	0.077	0.373	0.026	0.376	0.672	0.325	0.698
	Back side	0.354	0.198	0.644	0.069	0.552	0.998	0.423	1.067
	Left side	0.053	/	/	/	0.053	0.053	0.053	0.053
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.408	0.123	0.339	0.057	0.531	0.747	0.465	0.804
	Bottom side	/	/	/	/	/	/	/	/
WB5	Front side	0.312	0.077	0.373	0.026	0.389	0.685	0.338	0.711
	Back side	0.518	0.198	0.644	0.069	0.716	1.162	0.587	1.231
	Left side	0.121	/	/	/	0.121	0.121	0.121	0.121
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.420	0.123	0.339	0.057	0.543	0.759	0.477	0.816
	Bottom side	/	/	/	/	/	/	/	/
LTE B2	Front side	0.373	0.077	0.373	0.026	0.450	0.746	0.399	0.772
	Back side	0.517	0.198	0.644	0.069	0.715	1.161	0.586	1.230
	Left side	0.087	/	/	/	0.087	0.087	0.087	0.087
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.699	0.123	0.339	0.057	0.822	1.038	0.756	1.095
	Bottom side	/	/	/	/	/	/	/	/
LTE B7	Front side	0.188	0.077	0.373	0.026	0.265	0.561	0.214	0.587
	Back side	0.543	0.198	0.644	0.069	0.741	1.187	0.612	1.256
	Left side	0.125	/	/	/	0.125	0.125	0.125	0.125
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.636	0.123	0.339	0.057	0.759	0.975	0.693	1.032
	Bottom side	/	/	/	/	/	/	/	/
LTE B12	Front side	0.161	0.077	0.373	0.026	0.238	0.534	0.187	0.560
	Back side	0.263	0.198	0.644	0.069	0.461	0.907	0.332	0.976
	Left side	0.191	/	/	/	0.191	0.191	0.191	0.191



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	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.189	0.123	0.339	0.057	0.312	0.528	0.246	0.585
	Bottom side	/	/	/	/	/	/	/	/
LTE B13	Front side	0.168	0.077	0.373	0.026	0.245	0.541	0.194	0.567
	Back side	0.293	0.198	0.644	0.069	0.491	0.937	0.362	1.006
	Left side	0.141	/	/	/	0.141	0.141	0.141	0.141
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.189	0.123	0.339	0.057	0.312	0.528	0.246	0.585
	Bottom side	/	/	/	/	/	/	/	/
LTE B26	Front side	0.262	0.077	0.373	0.026	0.339	0.635	0.288	0.661
	Back side	0.468	0.198	0.644	0.069	0.666	1.112	0.537	1.181
	Left side	0.107	/	/	/	0.107	0.107	0.107	0.107
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.338	0.123	0.339	0.057	0.461	0.677	0.395	0.734
	Bottom side	/	/	/	/	/	/	/	/
LTE B41	Front side	0.224	0.077	0.373	0.026	0.301	0.597	0.250	0.623
	Back side	0.543	0.198	0.644	0.069	0.741	1.187	0.612	1.256
	Left side	0.195	/	/	/	0.195	0.195	0.195	0.195
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.664	0.123	0.339	0.057	0.787	1.003	0.721	1.060
	Bottom side	/	/	/	/	/	/	/	/
LTE B66	Front side	0.355	0.077	0.373	0.026	0.432	0.728	0.381	0.754
	Back side	0.399	0.198	0.644	0.069	0.597	1.043	0.468	1.112
	Left side	0.071	/	/	/	0.071	0.071	0.071	0.071
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.473	0.123	0.339	0.057	0.596	0.812	0.530	0.869
	Bottom side	/	/	/	/	/	/	/	/
N2	Front side	0.244	0.077	0.373	0.026	0.321	0.617	0.270	0.643
	Back side	0.417	0.198	0.644	0.069	0.615	1.061	0.486	1.130
	Left side	0.073	/	/	/	0.073	0.073	0.073	0.073
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.526	0.123	0.339	0.057	0.649	0.865	0.583	0.922
	Bottom side	/	/	/	/	/	/	/	/
N5	Front side	0.259	0.077	0.373	0.026	0.336	0.632	0.285	0.658
	Back side	0.503	0.198	0.644	0.069	0.701	1.147	0.572	1.216
	Left side	0.130	/	/	/	0.130	0.130	0.130	0.130
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.317	0.123	0.339	0.057	0.440	0.656	0.374	0.713
	Bottom side	/	/	/	/	/	/	/	/
N7	Front side	0.192	0.077	0.373	0.026	0.269	0.565	0.218	0.591
	Back side	0.521	0.198	0.644	0.069	0.719	1.165	0.590	1.234
	Left side	0.133	/	/	/	0.133	0.133	0.133	0.133
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.564	0.123	0.339	0.057	0.687	0.903	0.621	0.960
	Bottom side	/	/	/	/	/	/	/	/
N26	Front side	0.244	0.077	0.373	0.026	0.321	0.617	0.270	0.643
	Back side	0.463	0.198	0.644	0.069	0.661	1.107	0.532	1.176
	Left side	0.132	/	/	/	0.132	0.132	0.132	0.132
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413



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	Top side	0.304	0.123	0.339	0.057	0.427	0.643	0.361	0.700
	Bottom side	/	/	/	/	/	/	/	/
N38	Front side	0.240	0.077	0.373	0.026	0.317	0.613	0.266	0.639
	Back side	0.516	0.198	0.644	0.069	0.714	1.160	0.585	1.229
	Left side	0.244	/	/	/	0.244	0.244	0.244	0.244
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.555	0.123	0.339	0.057	0.678	0.894	0.612	0.951
	Bottom side	/	/	/	/	/	/	/	/
N41	Front side	0.201	0.077	0.373	0.026	0.278	0.574	0.227	0.600
	Back side	0.437	0.198	0.644	0.069	0.635	1.081	0.506	1.150
	Left side	0.239	/	/	/	0.239	0.239	0.239	0.239
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.466	0.123	0.339	0.057	0.589	0.805	0.523	0.862
	Bottom side	/	/	/	/	/	/	/	/
N66	Front side	0.261	0.077	0.373	0.026	0.338	0.634	0.287	0.660
	Back side	0.347	0.198	0.644	0.069	0.545	0.991	0.416	1.060
	Left side	0.006	/	/	/	0.006	0.006	0.006	0.006
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.433	0.123	0.339	0.057	0.556	0.772	0.490	0.829
	Bottom side	/	/	/	/	/	/	/	/

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant21	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.009	0.077	0.373	0.026	0.086	0.382	0.035	0.408
	Back side	0.013	0.198	0.644	0.069	0.211	0.657	0.082	0.726
	Left side	/	/	/	/	/	/	/	/
	Right side	0.009	0.115	0.367	0.046	0.124	0.376	0.055	0.422
	Top side	0.020	0.123	0.339	0.057	0.143	0.359	0.077	0.416
	Bottom side	/	/	/	/	/	/	/	/
N78	Front side	0.010	0.077	0.373	0.026	0.087	0.383	0.036	0.409
	Back side	0.050	0.198	0.644	0.069	0.248	0.694	0.119	0.763
	Left side	/	/	/	/	/	/	/	/
	Right side	0.004	0.115	0.367	0.046	0.119	0.371	0.050	0.417
	Top side	0.025	0.123	0.339	0.057	0.148	0.364	0.082	0.421
	Bottom side	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant23	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.137	0.077	0.373	0.026	0.214	0.510	0.163	0.536
	Back side	0.378	0.198	0.644	0.069	0.576	1.022	0.447	1.091
	Left side	/	/	/	/	/	/	/	/
	Right side	0.253	0.115	0.367	0.046	0.368	0.620	0.299	0.666
	Top side	0.070	0.123	0.339	0.057	0.193	0.409	0.127	0.466
	Bottom side	/	/	/	/	/	/	/	/
N78	Front side	0.129	0.077	0.373	0.026	0.206	0.502	0.155	0.528
	Back side	0.369	0.198	0.644	0.069	0.567	1.013	0.438	1.082
	Left side	/	/	/	/	/	/	/	/
	Right side	0.257	0.115	0.367	0.046	0.372	0.624	0.303	0.670
	Top side	0.070	0.123	0.339	0.057	0.193	0.409	0.127	0.466
	Bottom side	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant31	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.159	0.077	0.373	0.026	0.236	0.532	0.185	0.558
	Back side	0.258	0.198	0.644	0.069	0.456	0.902	0.327	0.971
	Left side	0.179	/	/	/	0.179	0.179	0.179	0.179
	Right side	0.098	0.115	0.367	0.046	0.213	0.465	0.144	0.511
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.189	/	/	/	0.189	0.189	0.189	0.189
GSM1900	Front side	0.148	0.077	0.373	0.026	0.225	0.521	0.174	0.547
	Back side	0.228	0.198	0.644	0.069	0.426	0.872	0.297	0.941
	Left side	0.088	/	/	/	0.088	0.088	0.088	0.088
	Right side	0.163	0.115	0.367	0.046	0.278	0.530	0.209	0.576
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.474	/	/	/	0.474	0.474	0.474	0.474
WB2	Front side	0.382	0.077	0.373	0.026	0.459	0.755	0.408	0.781
	Back side	0.665	0.198	0.644	0.069	0.863	1.309	0.734	1.378
	Left side	0.091	/	/	/	0.091	0.091	0.091	0.091
	Right side	0.221	0.115	0.367	0.046	0.336	0.588	0.267	0.634
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.667	/	/	/	0.667	0.667	0.667	0.667
WB4	Front side	0.273	0.077	0.373	0.026	0.350	0.646	0.299	0.672
	Back side	0.548	0.198	0.644	0.069	0.746	1.192	0.617	1.261
	Left side	0.067	/	/	/	0.067	0.067	0.067	0.067
	Right side	0.104	0.115	0.367	0.046	0.219	0.471	0.150	0.517
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.709	/	/	/	0.709	0.709	0.709	0.709
WB5	Front side	0.175	0.077	0.373	0.026	0.252	0.548	0.201	0.574
	Back side	0.269	0.198	0.644	0.069	0.467	0.913	0.338	0.982
	Left side	0.182	/	/	/	0.182	0.182	0.182	0.182
	Right side	0.122	0.115	0.367	0.046	0.237	0.489	0.168	0.535
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.234	/	/	/	0.234	0.234	0.234	0.234
LTE B2	Front side	0.279	0.077	0.373	0.026	0.356	0.652	0.305	0.678
	Back side	0.606	0.198	0.644	0.069	0.804	1.250	0.675	1.319
	Left side	0.078	/	/	/	0.078	0.078	0.078	0.078
	Right side	0.146	0.115	0.367	0.046	0.261	0.513	0.192	0.559
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.389	/	/	/	0.389	0.389	0.389	0.389
LTE B7	Front side	0.230	0.077	0.373	0.026	0.307	0.603	0.256	0.629
	Back side	0.269	0.198	0.644	0.069	0.467	0.913	0.338	0.982
	Left side	0.047	/	/	/	0.047	0.047	0.047	0.047
	Right side	0.175	0.115	0.367	0.046	0.290	0.542	0.221	0.588
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.173	/	/	/	0.173	0.173	0.173	0.173
LTE B12	Front side	0.177	0.077	0.373	0.026	0.254	0.550	0.203	0.576
	Back side	0.236	0.198	0.644	0.069	0.434	0.880	0.305	0.949
	Left side	0.267	/	/	/	0.267	0.267	0.267	0.267



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	Right side	0.162	0.115	0.367	0.046	0.277	0.529	0.208	0.575
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.111	/	/	/	0.111	0.111	0.111	0.111
LTE B13	Front side	0.165	0.077	0.373	0.026	0.242	0.538	0.191	0.564
	Back side	0.245	0.198	0.644	0.069	0.443	0.889	0.314	0.958
	Left side	0.208	/	/	/	0.208	0.208	0.208	0.208
	Right side	0.128	0.115	0.367	0.046	0.243	0.495	0.174	0.541
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.163	/	/	/	0.163	0.163	0.163	0.163
LTE B26	Front side	0.157	0.077	0.373	0.026	0.234	0.530	0.183	0.556
	Back side	0.246	0.198	0.644	0.069	0.444	0.890	0.315	0.959
	Left side	0.170	/	/	/	0.170	0.170	0.170	0.170
	Right side	0.116	0.115	0.367	0.046	0.231	0.483	0.162	0.529
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.177	/	/	/	0.177	0.177	0.177	0.177
LTE B41	Front side	0.159	0.077	0.373	0.026	0.236	0.532	0.185	0.558
	Back side	0.255	0.198	0.644	0.069	0.453	0.899	0.324	0.968
	Left side	0.058	/	/	/	0.058	0.058	0.058	0.058
	Right side	0.133	0.115	0.367	0.046	0.248	0.500	0.179	0.546
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.134	/	/	/	0.134	0.134	0.134	0.134
LTE B66	Front side	0.240	0.077	0.373	0.026	0.317	0.613	0.266	0.639
	Back side	0.456	0.198	0.644	0.069	0.654	1.100	0.525	1.169
	Left side	0.006	/	/	/	0.006	0.006	0.006	0.006
	Right side	0.108	0.115	0.367	0.046	0.223	0.475	0.154	0.521
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.594	/	/	/	0.594	0.594	0.594	0.594
N2	Front side	0.293	0.077	0.373	0.026	0.370	0.666	0.319	0.692
	Back side	0.525	0.198	0.644	0.069	0.723	1.169	0.594	1.238
	Left side	0.087	/	/	/	0.087	0.087	0.087	0.087
	Right side	0.167	0.115	0.367	0.046	0.282	0.534	0.213	0.580
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.573	/	/	/	0.573	0.573	0.573	0.573
N5	Front side	0.184	0.077	0.373	0.026	0.261	0.557	0.210	0.583
	Back side	0.326	0.198	0.644	0.069	0.524	0.970	0.395	1.039
	Left side	0.142	/	/	/	0.142	0.142	0.142	0.142
	Right side	0.072	0.115	0.367	0.046	0.187	0.439	0.118	0.485
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.267	/	/	/	0.267	0.267	0.267	0.267
N7	Front side	0.167	0.077	0.373	0.026	0.244	0.540	0.193	0.566
	Back side	0.414	0.198	0.644	0.069	0.612	1.058	0.483	1.127
	Left side	0.023	/	/	/	0.023	0.023	0.023	0.023
	Right side	0.259	0.115	0.367	0.046	0.374	0.626	0.305	0.672
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.233	/	/	/	0.233	0.233	0.233	0.233
N26	Front side	0.164	0.077	0.373	0.026	0.241	0.537	0.190	0.563
	Back side	0.245	0.198	0.644	0.069	0.443	0.889	0.314	0.958
	Left side	0.121	/	/	/	0.121	0.121	0.121	0.121
	Right side	0.077	0.115	0.367	0.046	0.192	0.444	0.123	0.490



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	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.231	/	/	/	0.231	0.231	0.231	0.231
N38	Front side	0.274	0.077	0.373	0.026	0.351	0.647	0.300	0.673
	Back side	0.424	0.198	0.644	0.069	0.622	1.068	0.493	1.137
	Left side	0.007	/	/	/	0.007	0.007	0.007	0.007
	Right side	0.223	0.115	0.367	0.046	0.338	0.590	0.269	0.636
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.284	/	/	/	0.284	0.284	0.284	0.284
N41	Front side	0.203	0.077	0.373	0.026	0.280	0.576	0.229	0.602
	Back side	0.425	0.198	0.644	0.069	0.623	1.069	0.494	1.138
	Left side	0.008	/	/	/	0.008	0.008	0.008	0.008
	Right side	0.199	0.115	0.367	0.046	0.314	0.566	0.245	0.612
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.356	/	/	/	0.356	0.356	0.356	0.356
N66	Front side	0.286	0.077	0.373	0.026	0.363	0.659	0.312	0.685
	Back side	0.517	0.198	0.644	0.069	0.715	1.161	0.586	1.230
	Left side	0.006	/	/	/	0.006	0.006	0.006	0.006
	Right side	0.105	0.115	0.367	0.046	0.220	0.472	0.151	0.518
	Top side	/	0.123	0.339	0.057	0.123	0.339	0.057	0.396
	Bottom side	0.510	/	/	/	0.510	0.510	0.510	0.510



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Test position		SARmax (W/kg)				Summed SAR			
		Main Ant101	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.004	0.077	0.373	0.026	0.081	0.377	0.030	0.403
	Back side	0.019	0.198	0.644	0.069	0.217	0.663	0.088	0.732
	Left side	0.009	/	/	/	0.009	0.009	0.009	0.009
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.006	0.123	0.339	0.057	0.129	0.345	0.063	0.402
	Bottom side	/	/	/	/	/	/	/	/
N78	Front side	0.007	0.077	0.373	0.026	0.084	0.380	0.033	0.406
	Back side	0.050	0.198	0.644	0.069	0.248	0.694	0.119	0.763
	Left side	0.020	/	/	/	0.020	0.020	0.020	0.020
	Right side	/	0.115	0.367	0.046	0.115	0.367	0.046	0.413
	Top side	0.010	0.123	0.339	0.057	0.133	0.349	0.067	0.406
	Bottom side	/	/	/	/	/	/	/	/

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_4A-5A	Front side	0.512	0.077	0.373	0.026	0.589	0.885	0.538	0.911
	Back side	0.645	0.198	0.644	0.069	0.843	1.289	0.714	1.358
	Left side	0.241	/	/	/	0.241	0.241	0.241	0.241
	Right side	0.116	0.115	0.367	0.046	0.231	0.483	0.162	0.529
	Top side	0.473	0.123	0.339	0.057	0.596	0.812	0.530	0.869
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
CA_4A-7A	Front side	0.449	0.077	0.373	0.026	0.526	0.822	0.475	0.848
	Back side	0.622	0.198	0.644	0.069	0.820	1.266	0.691	1.335
	Left side	0.229	/	/	/	0.229	0.229	0.229	0.229
	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.528	0.123	0.339	0.057	0.651	0.867	0.585	0.924
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
CA_5A-7A	Front side	0.395	0.077	0.373	0.026	0.472	0.768	0.421	0.794
	Back side	0.564	0.198	0.644	0.069	0.762	1.208	0.633	1.277
	Left side	0.233	/	/	/	0.233	0.233	0.233	0.233
	Right side	0.175	0.115	0.367	0.046	0.290	0.542	0.221	0.588
	Top side	0.319	0.123	0.339	0.057	0.442	0.658	0.376	0.715
	Bottom side	0.177	/	/	/	0.177	0.177	0.177	0.177



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Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B7	Front side	0.361	0.077	0.373	0.026	0.438	0.734	0.387	0.760
	Back side	0.512	0.198	0.644	0.069	0.710	1.156	0.581	1.225
	Left side	0.219	/	/	/	0.219	0.219	0.219	0.219
	Right side	0.175	0.115	0.367	0.046	0.290	0.542	0.221	0.588
	Top side	0.282	0.123	0.339	0.057	0.405	0.621	0.339	0.678
	Bottom side	0.173	/	/	/	0.173	0.173	0.173	0.173
n2-B66	Front side	0.238	0.077	0.373	0.026	0.315	0.611	0.264	0.637
	Back side	0.446	0.198	0.644	0.069	0.644	1.090	0.515	1.159
	Left side	0.175	/	/	/	0.175	0.175	0.175	0.175
	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.282	0.123	0.339	0.057	0.405	0.621	0.339	0.678
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
n5-B7	Front side	0.264	0.077	0.373	0.026	0.341	0.637	0.290	0.663
	Back side	0.516	0.198	0.644	0.069	0.714	1.160	0.585	1.229
	Left side	0.277	/	/	/	0.277	0.277	0.277	0.277
	Right side	0.072	0.115	0.367	0.046	0.187	0.439	0.118	0.485
	Top side	0.206	0.123	0.339	0.057	0.329	0.545	0.263	0.602
	Bottom side	0.267	/	/	/	0.267	0.267	0.267	0.267
n7-B2	Front side	0.313	0.077	0.373	0.026	0.390	0.686	0.339	0.712
	Back side	0.649	0.198	0.644	0.069	0.847	1.293	0.718	1.362
	Left side	0.233	/	/	/	0.233	0.233	0.233	0.233
	Right side	0.073	0.115	0.367	0.046	0.188	0.440	0.119	0.486
	Top side	0.283	0.123	0.339	0.057	0.406	0.622	0.340	0.679
	Bottom side	0.195	/	/	/	0.195	0.195	0.195	0.195
n7-B66	Front side	0.280	0.077	0.373	0.026	0.357	0.653	0.306	0.679
	Back side	0.548	0.198	0.644	0.069	0.746	1.192	0.617	1.261
	Left side	0.197	/	/	/	0.197	0.197	0.197	0.197
	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.283	0.123	0.339	0.057	0.406	0.622	0.340	0.679
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
n26-B7	Front side	0.324	0.077	0.373	0.026	0.401	0.697	0.350	0.723
	Back side	0.653	0.198	0.644	0.069	0.851	1.297	0.722	1.366
	Left side	0.267	/	/	/	0.267	0.267	0.267	0.267
	Right side	0.077	0.115	0.367	0.046	0.192	0.444	0.123	0.490
	Top side	0.351	0.123	0.339	0.057	0.474	0.690	0.408	0.747
	Bottom side	0.231	/	/	/	0.231	0.231	0.231	0.231
n38-B66	Front side	0.228	0.077	0.373	0.026	0.305	0.601	0.254	0.627
	Back side	0.480	0.198	0.644	0.069	0.678	1.124	0.549	1.193
	Left side	0.187	/	/	/	0.187	0.187	0.187	0.187
	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.278	0.123	0.339	0.057	0.401	0.617	0.335	0.674
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
n41-B66	Front side	0.308	0.077	0.373	0.026	0.385	0.681	0.334	0.707
	Back side	0.640	0.198	0.644	0.069	0.838	1.284	0.709	1.353
	Left side	0.242	/	/	/	0.242	0.242	0.242	0.242



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	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.466	0.123	0.339	0.057	0.589	0.805	0.523	0.862
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265
n66-B2	Front side	0.401	0.077	0.373	0.026	0.478	0.774	0.427	0.800
	Back side	0.651	0.198	0.644	0.069	0.849	1.295	0.720	1.364
	Left side	0.264	/	/	/	0.264	0.264	0.264	0.264
	Right side	0.073	0.115	0.367	0.046	0.188	0.440	0.119	0.486
	Top side	0.433	0.123	0.339	0.057	0.556	0.772	0.490	0.829
	Bottom side	0.195	/	/	/	0.195	0.195	0.195	0.195
n66-B5	Front side	0.418	0.077	0.373	0.026	0.495	0.791	0.444	0.817
	Back side	0.593	0.198	0.644	0.069	0.791	1.237	0.662	1.306
	Left side	0.395	/	/	/	0.395	0.395	0.395	0.395
	Right side	0.116	0.115	0.367	0.046	0.231	0.483	0.162	0.529
	Top side	0.433	0.123	0.339	0.057	0.556	0.772	0.490	0.829
	Bottom side	0.177	/	/	/	0.177	0.177	0.177	0.177
n66-B7	Front side	0.491	0.077	0.373	0.026	0.568	0.864	0.517	0.890
	Back side	0.616	0.198	0.644	0.069	0.814	1.260	0.685	1.329
	Left side	0.272	/	/	/	0.272	0.272	0.272	0.272
	Right side	0.175	0.115	0.367	0.046	0.290	0.542	0.221	0.588
	Top side	0.433	0.123	0.339	0.057	0.556	0.772	0.490	0.829
	Bottom side	0.173	/	/	/	0.173	0.173	0.173	0.173
n77-B7	Front side	0.359	0.077	0.373	0.026	0.436	0.732	0.385	0.758
	Back side	0.641	0.198	0.644	0.069	0.839	1.285	0.710	1.354
	Left side	0.419	/	/	/	0.419	0.419	0.419	0.419
	Right side	0.432	0.115	0.367	0.046	0.547	0.799	0.478	0.845
	Top side	0.389	0.123	0.339	0.057	0.512	0.728	0.446	0.785
	Bottom side	0.173	/	/	/	0.173	0.173	0.173	0.173
n78-B2	Front side	0.316	0.077	0.373	0.026	0.393	0.689	0.342	0.715
	Back side	0.673	0.198	0.644	0.069	0.871	1.317	0.742	1.386
	Left side	0.339	/	/	/	0.339	0.339	0.339	0.339
	Right side	0.073	0.115	0.367	0.046	0.188	0.440	0.119	0.486
	Top side	0.420	0.123	0.339	0.057	0.543	0.759	0.477	0.816
	Bottom side	0.195	/	/	/	0.195	0.195	0.195	0.195
n78-B5	Front side	0.294	0.077	0.373	0.026	0.371	0.667	0.320	0.693
	Back side	0.664	0.198	0.644	0.069	0.862	1.308	0.733	1.377
	Left side	0.465	/	/	/	0.465	0.465	0.465	0.465
	Right side	0.116	0.115	0.367	0.046	0.231	0.483	0.162	0.529
	Top side	0.283	0.123	0.339	0.057	0.406	0.622	0.340	0.679
	Bottom side	0.177	/	/	/	0.177	0.177	0.177	0.177
n78-B7	Front side	0.359	0.077	0.373	0.026	0.436	0.732	0.385	0.758
	Back side	0.641	0.198	0.644	0.069	0.839	1.285	0.710	1.354
	Left side	0.358	/	/	/	0.358	0.358	0.358	0.358
	Right side	0.175	0.115	0.367	0.046	0.290	0.542	0.221	0.588
	Top side	0.389	0.123	0.339	0.057	0.512	0.728	0.446	0.785
	Bottom side	0.173	/	/	/	0.173	0.173	0.173	0.173
n78-B41	Front side	0.288	0.077	0.373	0.026	0.365	0.661	0.314	0.687
	Back side	0.641	0.198	0.644	0.069	0.839	1.285	0.710	1.354
	Left side	0.393	/	/	/	0.393	0.393	0.393	0.393
	Right side	0.133	0.115	0.367	0.046	0.248	0.500	0.179	0.546



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	Top side	0.403	0.123	0.339	0.057	0.526	0.742	0.460	0.799
	Bottom side	0.134	/	/	/	0.134	0.134	0.134	0.134
n78-B66	Front side	0.307	0.077	0.373	0.026	0.384	0.680	0.333	0.706
	Back side	0.572	0.198	0.644	0.069	0.770	1.216	0.641	1.285
	Left side	0.331	/	/	/	0.331	0.331	0.331	0.331
	Right side	0.048	0.115	0.367	0.046	0.163	0.415	0.094	0.461
	Top side	0.307	0.123	0.339	0.057	0.430	0.646	0.364	0.703
	Bottom side	0.265	/	/	/	0.265	0.265	0.265	0.265

Test position	SARmax (W/kg)		Summed SAR
	WiFi 5G Ant22	BT	
	1	2	
Front side	0.470	0.026	0.496
Back side	0.909	0.069	0.978
Right side	0.518	0.046	0.564
Top side	0.427	0.057	0.484



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Limbs:

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant11	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	/	/	0.962	/	/	0.962	/	0.962
	Back side	/	/	1.451	/	/	1.451	/	1.451
	Left side	2.621	/	/	/	2.621	2.621	2.621	2.621
	Right side	/	/	1.479	/	/	1.479	/	1.479
	Top side	/	/	1.972	/	/	1.972	/	1.972
	Bottom side	/	/	/	/	/	/	/	/

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant13	WiFi 2.4G Ant22	WiFi 5G Ant22	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N38	Front side	/	/	0.962	/	/	0.962	/	0.962
	Back side	/	/	1.451	/	/	1.451	/	1.451
	Left side	/	/	/	/	/	/	/	/
	Right side	/	/	1.479	/	/	1.479	/	1.479
	Top side	1.557	/	1.972	/	1.557	3.529	1.557	3.529
	Bottom side	/	/	/	/	/	/	/	/



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Head(ENDCStandalone):

LTE Band (EN_DC)	Exposure position	ANT31	n2		EN_DC Summed SAR
			ANT11	ANT13	
Band 7	Left Touch	0.207	0.208	0.232	0.439
	Left Tilt	0.152	0.188	0.288	0.440
	Right Touch	0.358	0.627	0.457	0.985
	Right Tilt	0.175	0.233	0.595	0.770
Band 66	Left Touch	0.112	0.208	0.232	0.344
	Left Tilt	0.052	0.188	0.288	0.340
	Right Touch	0.075	0.627	0.457	0.702
	Right Tilt	0.063	0.233	0.595	0.658

LTE Band (EN_DC)	Exposure position	ANT11	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left Touch	0.249	0.452	0.133	0.701
	Left Tilt	0.215	0.361	0.094	0.576
	Right Touch	0.602	0.574	0.081	1.176
	Right Tilt	0.356	0.409	0.006	0.765

LTE Band (EN_DC)	Exposure position	ANT31	n7		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Left Touch	0.214	0.214	0.289	0.503
	Left Tilt	0.099	0.183	0.409	0.508
	Right Touch	0.180	0.612	0.590	0.792
	Right Tilt	0.118	0.340	0.632	0.750
Band 66	Left Touch	0.112	0.214	0.289	0.401
	Left Tilt	0.052	0.183	0.409	0.461
	Right Touch	0.075	0.612	0.590	0.687
	Right Tilt	0.063	0.340	0.632	0.695

LTE Band (EN_DC)	Exposure position	ANT11	n26		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left Touch	0.249	0.538	0.111	0.787
	Left Tilt	0.215	0.553	0.077	0.768
	Right Touch	0.602	0.706	0.064	1.308
	Right Tilt	0.356	0.653	0.007	1.009



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LTE Band (EN_DC)	Exposure position	ANT31	n38		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Left Touch	0.112	0.203	0.303	0.415
	Left Tilt	0.052	0.143	0.393	0.445
	Right Touch	0.075	0.532	0.766	0.841
	Right Tilt	0.063	0.249	0.891	0.954

LTE Band (EN_DC)	Exposure position	ANT31	n41		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Left Touch	0.112	0.166	0.317	0.429
	Left Tilt	0.052	0.162	0.424	0.476
	Right Touch	0.075	0.420	0.797	0.872
	Right Tilt	0.063	0.236	0.930	0.993

LTE Band (EN_DC)	Exposure position	ANT31	n66		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Left Touch	0.214	0.250	0.370	0.584
	Left Tilt	0.099	0.189	0.440	0.539
	Right Touch	0.180	0.580	0.610	0.790
	Right Tilt	0.118	0.196	0.695	0.813
Band 5	Left Touch	0.178	0.250	0.370	0.548
	Left Tilt	0.106	0.189	0.440	0.546
	Right Touch	0.173	0.580	0.610	0.783
	Right Tilt	0.090	0.196	0.695	0.785
Band 7	Left Touch	0.207	0.250	0.370	0.577
	Left Tilt	0.152	0.189	0.440	0.592
	Right Touch	0.358	0.580	0.610	0.968
	Right Tilt	0.175	0.196	0.695	0.870

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT23	
Band 7	Left Touch	0.311	0.207	0.214	0.505	0.816
	Left Tilt	0.396	0.152	0.088	0.313	0.709
	Right Touch	0.639	0.358	0.615	0.237	1.254
	Right Tilt	0.924	0.175	0.136	0.148	1.072



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT23	
Band 2	Left Touch	0.278	0.214	0.222	0.559	0.837
	Left Tilt	0.333	0.099	0.085	0.352	0.685
	Right Touch	0.381	0.180	0.726	0.298	1.107
	Right Tilt	0.533	0.118	0.143	0.202	0.735
Band 5	Left Touch	0.464	0.178	0.222	0.559	1.023
	Left Tilt	0.469	0.106	0.085	0.352	0.821
	Right Touch	0.635	0.173	0.726	0.298	1.361
	Right Tilt	0.542	0.090	0.143	0.202	0.744
Band 7	Left Touch	0.311	0.207	0.222	0.559	0.870
	Left Tilt	0.396	0.152	0.085	0.352	0.748
	Right Touch	0.639	0.358	0.726	0.298	1.365
	Right Tilt	0.924	0.175	0.143	0.202	1.126
Band 41	Left Touch	0.214	0.178	0.222	0.559	0.773
	Left Tilt	0.264	0.109	0.085	0.352	0.616
	Right Touch	0.595	0.314	0.726	0.298	1.321
	Right Tilt	0.636	0.161	0.143	0.202	0.838
Band 66	Left Touch	0.417	0.112	0.222	0.559	0.976
	Left Tilt	0.490	0.052	0.085	0.352	0.842
	Right Touch	0.585	0.075	0.726	0.298	1.311
	Right Tilt	0.667	0.063	0.143	0.202	0.869



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Head(ENDC Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT31	n2		EN_DC Summed SAR
			ANT11	ANT13	
Band 7	Left Touch	0.207	0.208	0.232	0.439
	Left Tilt	0.152	0.188	0.288	0.440
	Right Touch	0.358	0.627	0.457	0.985
	Right Tilt	0.175	0.233	0.595	0.770
Band 66	Left Touch	0.112	0.208	0.232	0.344
	Left Tilt	0.052	0.188	0.288	0.340
	Right Touch	0.075	0.627	0.457	0.702
	Right Tilt	0.063	0.233	0.595	0.658

LTE Band (EN_DC)	Exposure position	ANT11	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left Touch	0.099	0.452	0.133	0.551
	Left Tilt	0.086	0.361	0.094	0.447
	Right Touch	0.240	0.574	0.081	0.814
	Right Tilt	0.142	0.409	0.006	0.551

LTE Band (EN_DC)	Exposure position	ANT31	n7		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Left Touch	0.214	0.214	0.289	0.503
	Left Tilt	0.099	0.183	0.409	0.508
	Right Touch	0.180	0.612	0.590	0.792
	Right Tilt	0.118	0.340	0.632	0.750
Band 66	Left Touch	0.112	0.214	0.289	0.401
	Left Tilt	0.052	0.183	0.409	0.461
	Right Touch	0.075	0.612	0.590	0.687
	Right Tilt	0.063	0.340	0.632	0.695

LTE Band (EN_DC)	Exposure position	ANT11	n26		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left Touch	0.099	0.538	0.111	0.637
	Left Tilt	0.086	0.553	0.077	0.639
	Right Touch	0.240	0.706	0.064	0.946
	Right Tilt	0.142	0.653	0.007	0.795



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LTE Band (EN_DC)	Exposure position	ANT31	n38		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Left Touch	0.112	0.203	0.303	0.415
	Left Tilt	0.052	0.143	0.393	0.445
	Right Touch	0.075	0.532	0.766	0.841
	Right Tilt	0.063	0.249	0.891	0.954

LTE Band (EN_DC)	Exposure position	ANT31	n41		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Left Touch	0.112	0.166	0.317	0.429
	Left Tilt	0.052	0.162	0.424	0.476
	Right Touch	0.075	0.420	0.797	0.872
	Right Tilt	0.063	0.236	0.930	0.993

LTE Band (EN_DC)	Exposure position	ANT31	n66		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Left Touch	0.214	0.250	0.370	0.584
	Left Tilt	0.099	0.189	0.440	0.539
	Right Touch	0.180	0.580	0.610	0.790
	Right Tilt	0.118	0.196	0.695	0.813
Band 5	Left Touch	0.178	0.250	0.370	0.548
	Left Tilt	0.106	0.189	0.440	0.546
	Right Touch	0.173	0.580	0.610	0.783
	Right Tilt	0.090	0.196	0.695	0.785
Band 7	Left Touch	0.207	0.250	0.370	0.577
	Left Tilt	0.152	0.189	0.440	0.592
	Right Touch	0.358	0.580	0.610	0.968
	Right Tilt	0.175	0.196	0.695	0.870

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT23	
Band 7	Left Touch	0.124	0.207	0.214	0.505	0.712
	Left Tilt	0.158	0.152	0.088	0.313	0.471
	Right Touch	0.254	0.358	0.615	0.237	0.973
	Right Tilt	0.368	0.175	0.136	0.148	0.516



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT23	
Band 2	Left Touch	0.278	0.214	0.089	0.223	0.501
	Left Tilt	0.333	0.099	0.034	0.140	0.473
	Right Touch	0.381	0.180	0.289	0.118	0.670
	Right Tilt	0.533	0.118	0.057	0.080	0.613
Band 5	Left Touch	0.464	0.178	0.089	0.223	0.687
	Left Tilt	0.469	0.106	0.034	0.140	0.609
	Right Touch	0.635	0.173	0.289	0.118	0.924
	Right Tilt	0.542	0.090	0.057	0.080	0.622
Band 7	Left Touch	0.124	0.207	0.089	0.223	0.430
	Left Tilt	0.158	0.152	0.034	0.140	0.298
	Right Touch	0.254	0.358	0.289	0.118	0.647
	Right Tilt	0.368	0.175	0.057	0.080	0.448
Band 41	Left Touch	0.214	0.178	0.089	0.223	0.437
	Left Tilt	0.264	0.109	0.034	0.140	0.404
	Right Touch	0.595	0.314	0.289	0.118	0.884
	Right Tilt	0.636	0.161	0.057	0.080	0.716
Band 66	Left Touch	0.417	0.112	0.089	0.223	0.640
	Left Tilt	0.490	0.052	0.034	0.140	0.630
	Right Touch	0.585	0.075	0.289	0.118	0.874
	Right Tilt	0.667	0.063	0.057	0.080	0.747



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Body(ENDCStandalone & Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT31	n2		EN_DC Summed SAR
			ANT11	ANT13	
Band 7	Front side	0.204	0.137	0.268	0.472
	Back side	0.249	0.217	0.430	0.679
Band 66	Front side	0.133	0.137	0.268	0.401
	Back side	0.243	0.217	0.430	0.673

LTE Band (EN_DC)	Exposure position	ANT11	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.142	0.233	0.105	0.375
	Back side	0.322	0.339	0.154	0.661

LTE Band (EN_DC)	Exposure position	ANT31	n7		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Front side	0.315	0.172	0.133	0.487
	Back side	0.509	0.264	0.330	0.839
Band 66	Front side	0.133	0.172	0.133	0.305
	Back side	0.243	0.264	0.330	0.573

LTE Band (EN_DC)	Exposure position	ANT11	n26		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.142	0.169	0.088	0.311
	Back side	0.322	0.328	0.129	0.650

LTE Band (EN_DC)	Exposure position	ANT31	n38		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Front side	0.133	0.084	0.335	0.468
	Back side	0.243	0.218	0.556	0.799

LTE Band (EN_DC)	Exposure position	ANT31	n41		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Front side	0.133	0.105	0.294	0.427
	Back side	0.243	0.301	0.623	0.866



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LTE Band (EN_DC)	Exposure position	ANT31	n66		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Front side	0.315	0.139	0.214	0.529
	Back side	0.509	0.203	0.268	0.777
Band 5	Front side	0.151	0.139	0.214	0.365
	Back side	0.174	0.203	0.268	0.442
Band 7	Front side	0.204	0.139	0.214	0.418
	Back side	0.249	0.203	0.268	0.517

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT23	
Band 7	Front side	0.183	0.204	0.127	0.143	0.347
	Back side	0.467	0.249	0.403	0.315	0.870

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT23	
Band 2	Front side	0.251	0.315	0.131	0.114	0.446
	Back side	0.357	0.509	0.376	0.267	0.885
Band 5	Front side	0.153	0.151	0.131	0.114	0.284
	Back side	0.377	0.174	0.376	0.267	0.753
Band 7	Front side	0.183	0.204	0.131	0.114	0.335
	Back side	0.467	0.249	0.376	0.267	0.843
Band 41	Front side	0.191	0.178	0.131	0.114	0.322
	Back side	0.389	0.239	0.376	0.267	0.765
Band 66	Front side	0.218	0.133	0.131	0.114	0.349
	Back side	0.251	0.243	0.376	0.267	0.627



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Hotspot(ENDCStandalone & Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT31	n2		EN_DC Summed SAR
			ANT11	ANT13	
Band 7	Front side	0.230	0.104	0.131	0.361
	Back side	0.269	0.243	0.224	0.512
	Left side	0.047	0.172	0.039	0.219
	Right side	0.175	/	/	0.175
	Top side	/	0.067	0.282	0.282
	Bottom side	0.173	/	/	0.173
Band 66	Front side	0.107	0.104	0.131	0.238
	Back side	0.203	0.243	0.224	0.446
	Left side	0.003	0.172	0.039	0.175
	Right side	0.048	/	/	0.048
	Top side	/	0.067	0.282	0.282
	Bottom side	0.265	/	/	0.265

LTE Band (EN_DC)	Exposure position	ANT11	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.080	0.130	0.184	0.264
	Back side	0.190	0.252	0.326	0.516
	Left side	0.135	0.065	0.142	0.277
	Right side	/	/	0.072	0.072
	Top side	0.047	0.159	/	0.206
	Bottom side	/	/	0.267	0.267

LTE Band (EN_DC)	Exposure position	ANT31	n7		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Front side	0.140	0.173	0.096	0.313
	Back side	0.304	0.345	0.261	0.649
	Left side	0.039	0.194	0.067	0.233
	Right side	0.073	/	/	0.073
	Top side	/	0.079	0.283	0.283
	Bottom side	0.195	/	/	0.195
Band 66	Front side	0.107	0.173	0.096	0.280
	Back side	0.203	0.345	0.261	0.548
	Left side	0.003	0.194	0.067	0.197
	Right side	0.048	/	/	0.048
	Top side	/	0.079	0.283	0.283
	Bottom side	0.265	/	/	0.265

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LTE Band (EN_DC)	Exposure position	ANT11	n26		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.080	0.244	0.164	0.324
	Back side	0.190	0.463	0.245	0.653
	Left side	0.135	0.132	0.121	0.267
	Right side	/	/	0.077	0.077
	Top side	0.047	0.304	/	0.351
	Bottom side	/	/	0.231	0.231

LTE Band (EN_DC)	Exposure position	ANT31	n38		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Front side	0.107	0.098	0.121	0.228
	Back side	0.203	0.277	0.259	0.480
	Left side	0.003	0.184	0.122	0.187
	Right side	0.048	/	/	0.048
	Top side	/	0.007	0.278	0.278
	Bottom side	0.265	/	/	0.265

LTE Band (EN_DC)	Exposure position	ANT31	n41		EN_DC Summed SAR
			ANT11	ANT13	
Band 66	Front side	0.107	0.122	0.201	0.308
	Back side	0.203	0.365	0.437	0.640
	Left side	0.003	0.201	0.239	0.242
	Right side	0.048	/	/	0.048
	Top side	/	0.005	0.466	0.466
	Bottom side	0.265	/	/	0.265



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LTE Band (EN_DC)	Exposure position	ANT31	n66		EN_DC Summed SAR
			ANT11	ANT13	
Band 2	Front side	0.140	0.119	0.261	0.401
	Back side	0.304	0.231	0.347	0.651
	Left side	0.039	0.225	0.006	0.264
	Right side	0.073	/	/	0.073
	Top side	/	0.005	0.433	0.433
	Bottom side	0.195	/	/	0.195
Band 5	Front side	0.157	0.119	0.261	0.418
	Back side	0.246	0.231	0.347	0.593
	Left side	0.170	0.225	0.006	0.395
	Right side	0.116	/	/	0.116
	Top side	/	0.005	0.433	0.433
	Bottom side	0.177	/	/	0.177
Band 7	Front side	0.230	0.119	0.261	0.491
	Back side	0.269	0.231	0.347	0.616
	Left side	0.047	0.225	0.006	0.272
	Right side	0.175	/	/	0.175
	Top side	/	0.005	0.433	0.433
	Bottom side	0.173	/	/	0.173

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT23	
Band 7	Front side	0.094	0.230	0.115	0.129	0.359
	Back side	0.272	0.269	0.290	0.369	0.641
	Left side	0.063	0.047	0.356	/	0.419
	Right side	/	0.175	/	0.257	0.432
	Top side	0.319	/	0.054	0.070	0.389
	Bottom side	/	0.173	/	/	0.173



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT23	
Band 2	Front side	0.187	0.140	0.075	0.129	0.316
	Back side	0.259	0.304	0.250	0.369	0.673
	Left side	0.044	0.039	0.295	0.257	0.339
	Right side	/	0.073	/	/	0.073
	Top side	0.350	/	0.034	0.070	0.420
	Bottom side	/	0.195	/	/	0.195
Band 5	Front side	0.165	0.157	0.075	0.129	0.294
	Back side	0.295	0.246	0.250	0.369	0.664
	Left side	0.066	0.170	0.295	0.257	0.465
	Right side	/	0.116	/	/	0.116
	Top side	0.213	/	0.034	0.070	0.283
	Bottom side	/	0.177	/	/	0.177
Band 7	Front side	0.094	0.230	0.075	0.129	0.359
	Back side	0.272	0.269	0.250	0.369	0.641
	Left side	0.063	0.047	0.295	0.257	0.358
	Right side	/	0.175	/	/	0.175
	Top side	0.319	/	0.034	0.070	0.389
	Bottom side	/	0.173	/	/	0.173
Band 41	Front side	0.112	0.159	0.075	0.129	0.288
	Back side	0.272	0.255	0.250	0.369	0.641
	Left side	0.098	0.058	0.295	0.257	0.393
	Right side	/	0.133	/	/	0.133
	Top side	0.333	/	0.034	0.070	0.403
	Bottom side	/	0.134	/	/	0.134
Band 66	Front side	0.178	0.107	0.075	0.129	0.307
	Back side	0.200	0.203	0.250	0.369	0.572
	Left side	0.036	0.003	0.295	0.257	0.331
	Right side	/	0.048	/	/	0.048
	Top side	0.237	/	0.034	0.070	0.307
	Bottom side	/	0.265	/	/	0.265



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	DAE	SPEAG	DAE4	SZ-WSR-M-030	2023/11/17	2024/11/16
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2024/03/18	2025/03/17
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2024/01/03	2025/01/02
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2023/08/07	2024/08/06
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2023/11/23	2024/11/22
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2023/12/13	2024/12/12
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2023/09/11	2024/09/10
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2023/06/15	2024/06/14
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2023/06/07	2024/06/06
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2023/05/25	2024/05/24
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2023/09/14	2024/09/13
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29



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SZSAR-TRF-01 Rev. A/0 May15,2023

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☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Humidity and Temperature Indicator	MingGao	TH101B	SZ-WSR-M-001	2024/1/31	2025/1/30
☒	Humidity and Temperature Indicator	MingGao	TH101B	SZ-WSR-M-002	2024/1/31	2025/1/30
☒	Humidity and Temperature Indicator	AS ONE	THA-02L	SZ-WSR-M-011	2024/1/31	2025/1/30

Note: All the equipment 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

Appendix F: Antenna Locations

--- End of report ---

