

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

SZSAR-TRF-01 Rev. A2

Report No.: SZCR251200564609

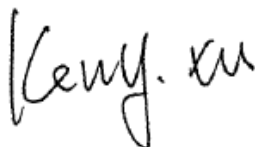
Page: 1 of 148

SAR TEST REPORT

Application No.: SZCR2512005646WM
Applicant: TCL Communication Ltd.,
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.,
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
EUT Description: GSM/UMTS/LTE/NR Mobile phone
Model No.: T624J
FCC ID: 2ACCJH205
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-12-22
Date of Test: 2025-12-27 to 2026-01-22
Date of Issue: 2026-01-28

Test Result :	PASS *
----------------------	---------------

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



Keny Xu
EMC Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
01		2026-01-28	

Authorized for issue by:				
				
		Charlie Dai/ Project Engineer		
				
		Roman Pan / Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.89	0.74	0.79	/
GSM1900	0.99	0.61	0.61	/
WCDMA Band II	1.10	0.52	0.52	/
WCDMA Band IV	1.15	0.56	0.56	/
WCDMA Band V	0.92	0.43	0.43	/
LTE Band 5	1.11	0.76	0.76	/
LTE Band 7	1.23	0.77	0.77	/
LTE Band 12(17)	0.86	0.41	0.47	/
LTE Band 13	0.81	0.62	0.62	/
LTE Band 25(2)	0.75	0.57	0.57	/
LTE Band 26	0.42	0.44	0.44	/
LTE Band 30	0.71	0.53	0.53	/
LTE Band 41(38)	1.28	0.78	0.78	/
LTE Band 42	0.98	0.28	0.46	/
LTE Band 66	0.67	0.56	0.56	/
LTE Band 71	0.62	0.41	0.41	/
NR Band n2	0.69	0.45	0.45	/
NR Band n5	1.15	0.75	0.75	/
NR Band n7	1.10	0.64	0.64	/
NR Band n25	0.71	0.44	0.44	/
NR Band n41(n38)	1.26	0.71	0.71	/
NR Band n66	0.78	0.54	0.54	/
NR Band n71	0.66	0.38	0.38	/
NR Band n77(n78)	0.52	0.51	0.51	/
WI-FI (2.4GHz)	0.83	0.41	0.41	/
WI-FI (5GHz)	0.74	0.87	0.74	1.56
BT	0.19	<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	1.57	1.59	1.55	1.56
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note: According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 2 is covered by LTE band 25. SAR in LTE band 4 is covered by LTE band 66. SAR in LTE band 17 is covered by LTE band 12. SAR in LTE Band 38 is covered by LTE Band 41. The SAR in NR Band n38 is covered by NR Band n41. The SAR in NR Band n78 is covered by NR Band n77. 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 General Description of EUT

Product Name:	GSM/UMTS/LTE/NR Mobile phone		
Model No.:	T624J		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	16819000000658, 16819000000575, 16819000000237, 16819000000070, 5672f42c		
Hardware Version:	07		
Software Version:	vBZS8		
Antenna Type:	Embedded		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI: DSSS,OFDM; BT: GFSK, π /4DQPSK,8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	



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	LTE Band 2	1850 ~1910
	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 13	777~787
	LTE Band 17	704~716
	LTE Band 25	1850~1915
	LTE Band 26	814~849
	LTE Band 30	2305~2315
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 42	3450~3550
	LTE Band 66	1710~1780
	LTE Band 71	663~698
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n25	1850~1915
	NR Band n38	2570~2620
	NR Band n41	2496~2690
	NR Band n66	1710~1780
	NR Band n71	663~698
	NR Band n77	3450~3550
		3700~3980
	NR Band n78	3450~3550
		3700~3800
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56



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RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information:	Model:	TLp050B7
	Normal Voltage:	3.91V
	Rated capacity:	5000mAh
	Manufacturer:	Donguan Veken Battery Co.,Ltd
Note: Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.		



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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1.3 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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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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1.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Vito Wang, Messi Chen, Claire Shen, Ying MA, Grace Li

1.6 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**

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CAB identifier: CN0006.

IC#: 4620C.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	



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

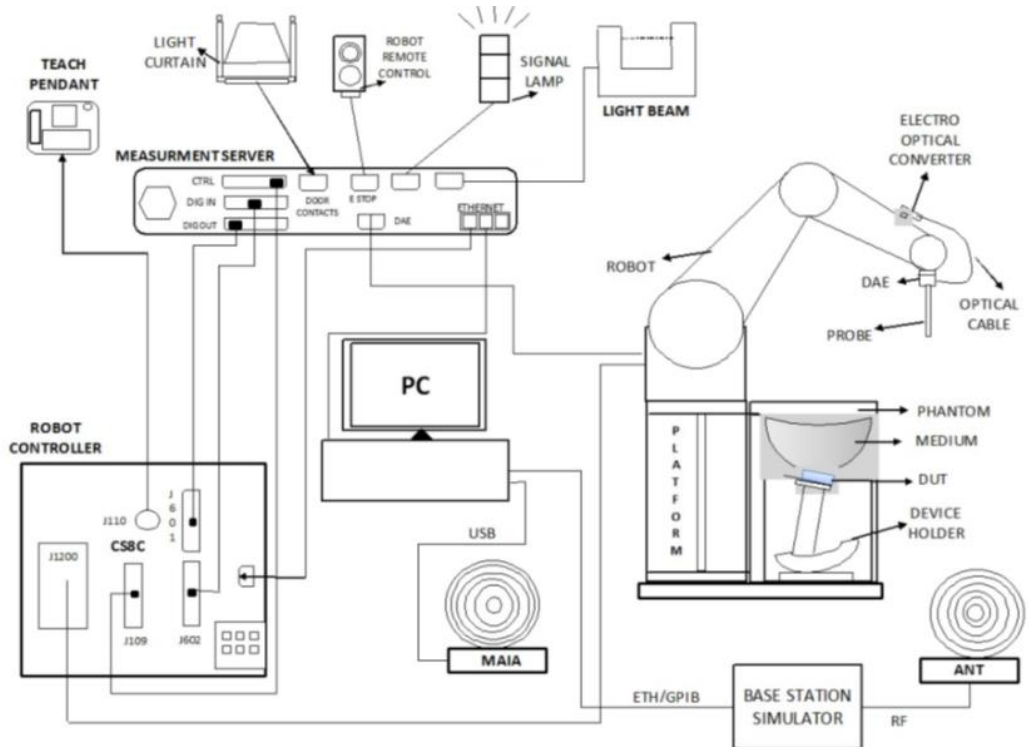
The DASY system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration

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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY 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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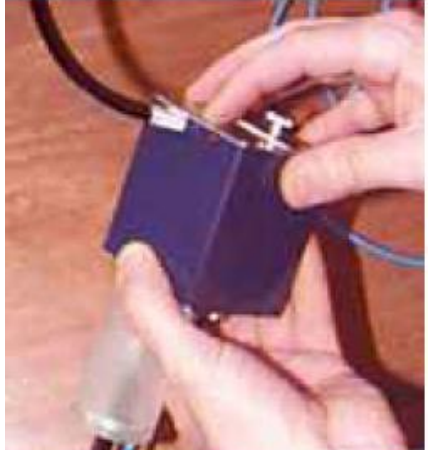
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3.2 Isotropic E-field Probe EX3DV4

	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	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	

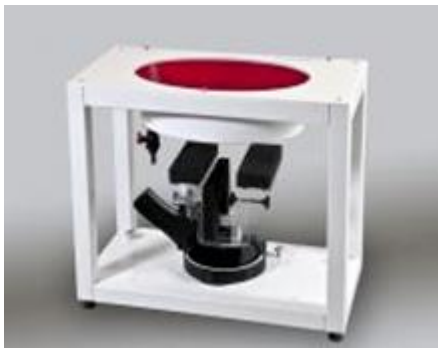
3.4 SAM Twin Phantom

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. 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 4 MHz to 10 GHz. 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.

If the zoom scan measured as specified in the preceding paragraphs complies with both i) and ii), or if the psSAR is below 0,1 W/kg, no additional measurements are needed.

i) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x- and y-directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1. The minimum distance shall be recorded in the SAR test report.

ii) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
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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$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

H-field probes:

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

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

Norm_i = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

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.

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

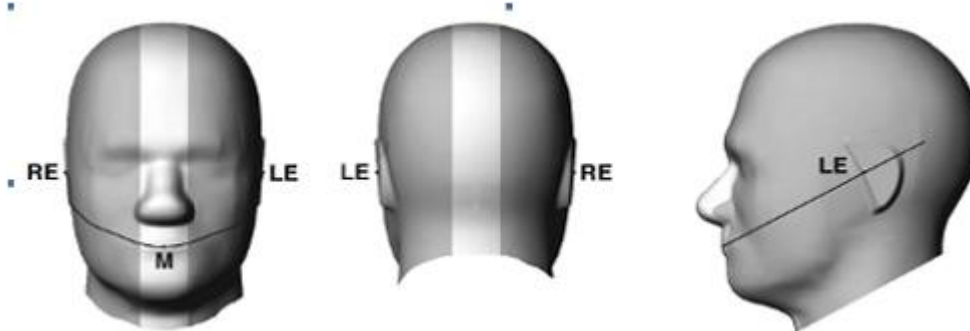
4.2 SAR measurement uncertainty

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

5 Description of Test Position

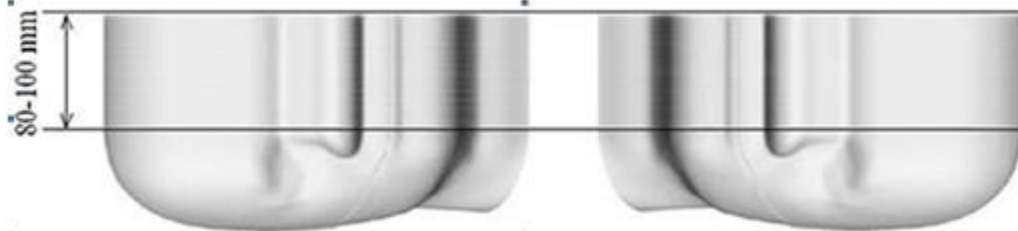
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

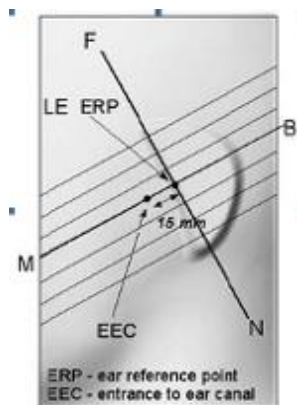


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

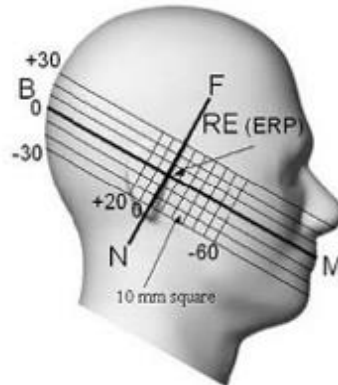
Note: The centre strip including the nose region has a different thickness tolerance.



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

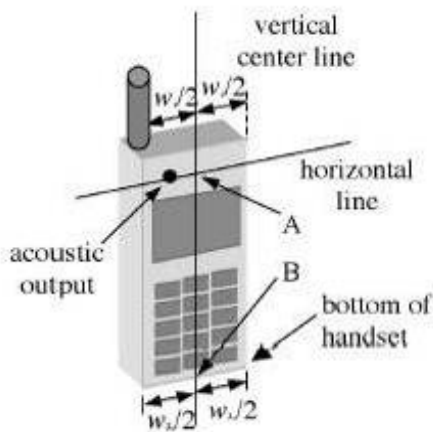


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

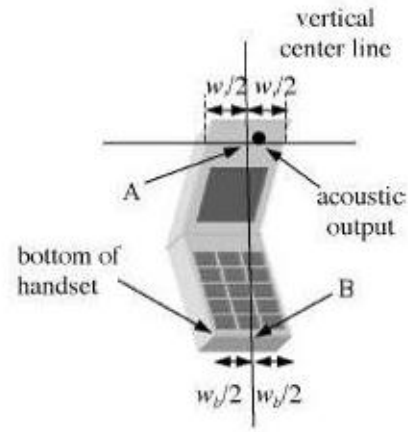


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



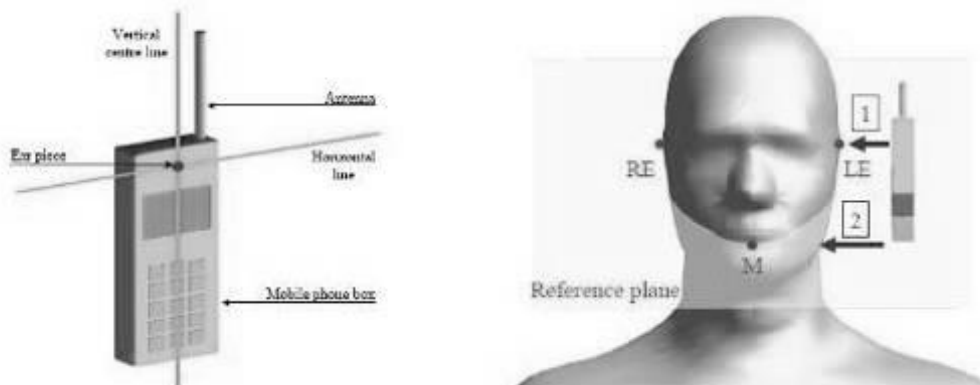
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

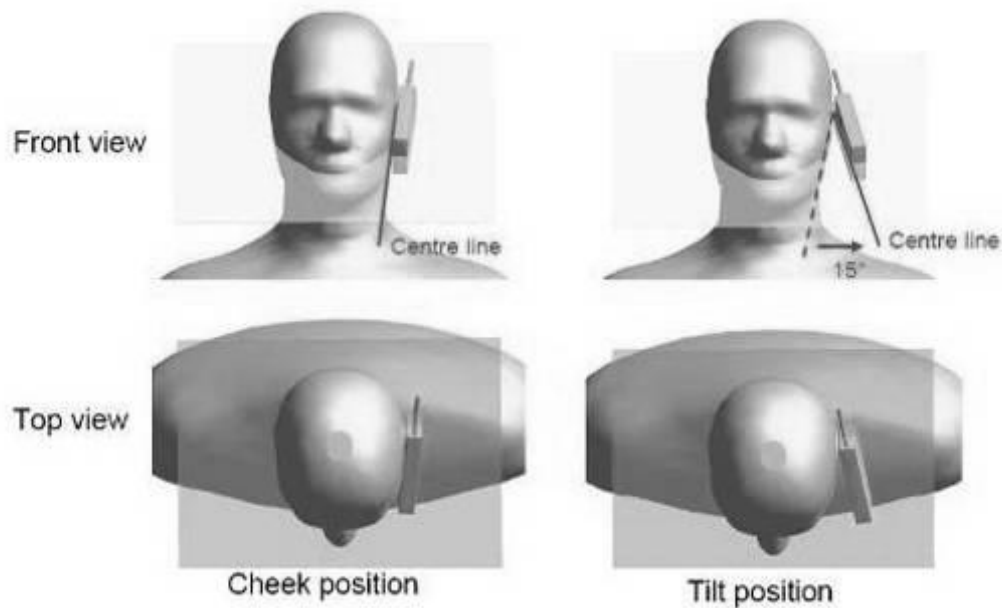
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

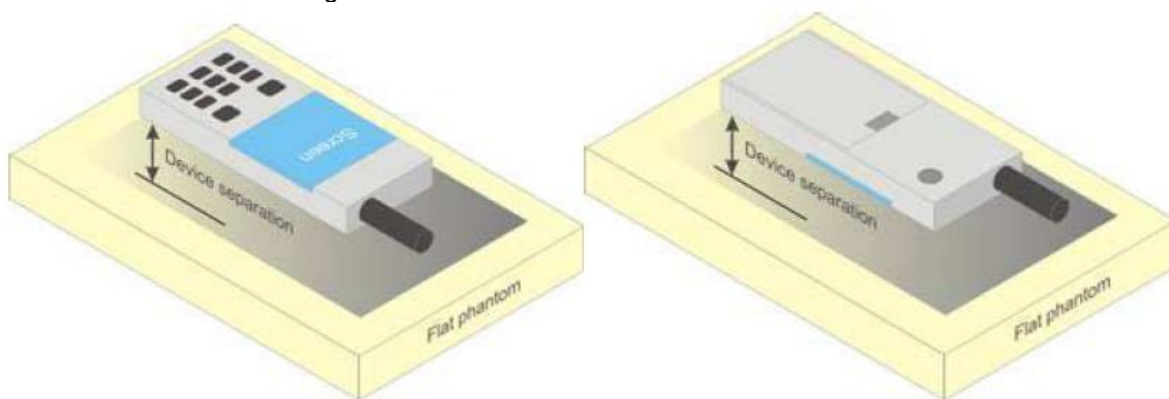
5.2.1 Body-worn exposure conditions

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

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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



6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	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					
Head Tissue Simulate Liquid (HBBL600-10000V6) 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 1 : 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 $22 \pm 2^\circ\text{C}$.

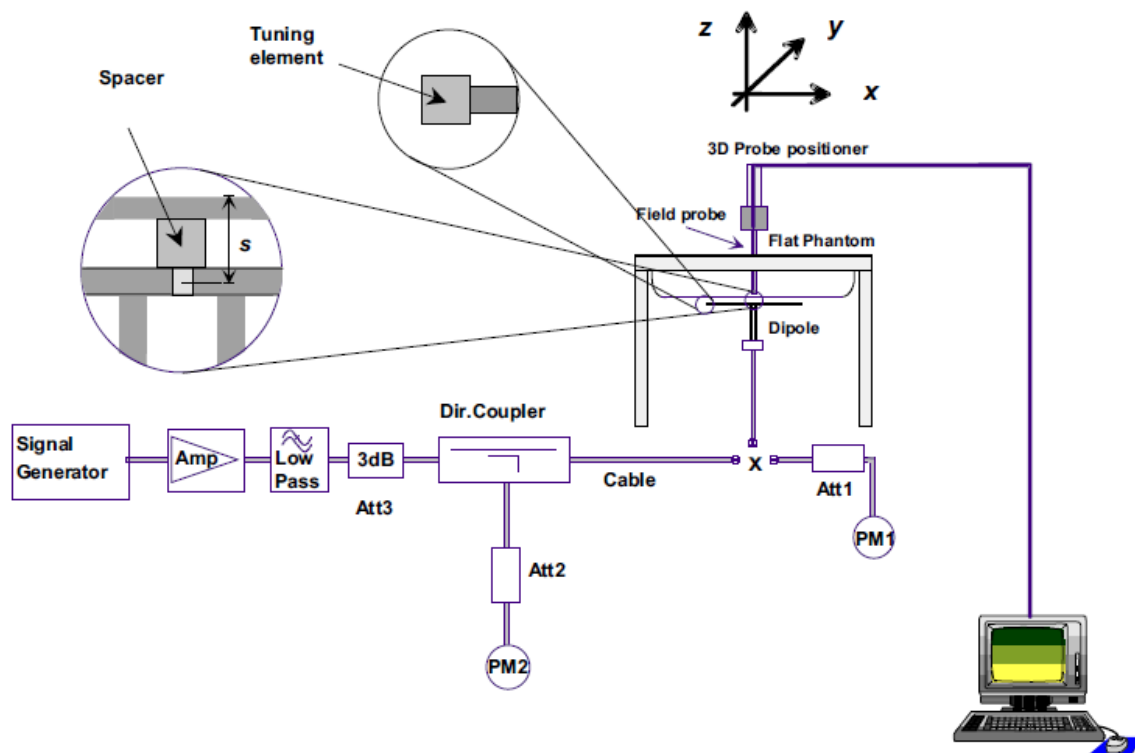
6.1.3 SAR Result of Liquid

Measurement for Tissue Simulate Liquid for System check									
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	40.674	0.907	41.90	0.89	-2.93%	1.91%	22.1	2026/1/15
750 Head	750	42.416	0.886	41.90	0.89	1.23%	-0.45%	21.9	2026/1/18
835 Head	835	41.807	0.902	41.50	0.90	0.74%	0.22%	22.2	2026/1/9
835 Head	835	42.973	0.911	41.50	0.90	3.55%	1.22%	22.0	2026/1/11
1750 Head	1750	40.341	1.387	40.10	1.37	0.60%	1.24%	22.3	2026/1/18
1750 Head	1750	40.551	1.380	40.10	1.37	1.12%	0.73%	22.5	2026/1/21
1900 Head	1900	40.106	1.380	40.00	1.40	0.27%	-1.43%	21.9	2026/1/11
1900 Head	1900	40.243	1.402	40.00	1.40	0.61%	0.14%	22.7	2026/1/13
2300 Head	2300	38.718	1.705	39.50	1.67	-1.98%	2.10%	22.6	2026/1/15
2450 Head	2450	38.593	1.811	39.20	1.80	-1.55%	0.61%	21.9	2026/1/6
2600 Head	2600	39.172	1.956	39.00	1.96	0.44%	-0.20%	22.2	2025/12/27
2600 Head	2600	39.726	1.967	39.00	1.96	1.86%	0.36%	22.0	2025/12/29
2600 Head	2600	39.195	1.931	39.00	1.96	0.50%	-1.48%	22.1	2026/1/4
3500 Head	3500	38.355	2.948	37.90	2.91	1.20%	1.31%	21.6	2026/1/8
3700 Head	3700	37.456	3.102	37.70	3.12	-0.65%	-0.58%	21.9	2026/1/22
3900 Head	3900	36.746	3.317	37.50	3.32	-2.01%	-0.09%	21.8	2026/1/4
3900 Head	3900	36.902	3.343	37.50	3.32	-1.59%	0.69%	22.4	2026/1/6
5250 Head	5250	36.886	4.744	35.90	4.71	2.75%	0.72%	22.8	2026/1/2
5600 Head	5600	35.934	5.133	35.50	5.07	1.22%	1.24%	22.6	2025/12/31
5750 Head	5750	35.570	5.305	35.40	5.22	0.48%	1.63%	22.9	2025/12/29

Table 2 : 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.



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6.2.2 Summary System Check Result(s)

6.2.3 SAR Result of Systemcheck

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	2.03	1.44	8.12	5.76	8.42	5.49	-3.56%	4.92%	22.1	2026/1/15
D750V3_Head	1.98	1.41	7.92	5.64	8.42	5.49	-5.94%	2.73%	21.9	2026/1/18
D835V2_Head	2.49	1.64	9.96	6.56	9.67	6.43	3.00%	2.02%	22.2	2026/1/9
D835V2_Head	2.48	1.63	9.92	6.52	9.67	6.43	2.59%	1.40%	22.0	2026/1/11
D1750V2_Head	9.59	5.03	38.36	20.12	36.20	19.10	5.97%	5.34%	22.3	2026/1/18
D1750V2_Head	9.35	4.94	37.40	19.76	36.20	19.10	3.31%	3.46%	22.5	2026/1/21
D1900V2_Head	9.84	5.23	39.36	20.92	39.90	21.10	-1.35%	-0.85%	23.1	2026/1/11
D1900V2_Head	10.1	5.15	40.40	20.60	39.90	21.10	1.25%	-2.37%	22.7	2026/1/13
D2300V2_Head	12.20	5.79	48.80	23.16	48.90	23.20	-0.20%	-0.17%	22.6	2026/1/15
D2450V2_Head	14.00	6.49	56.00	25.96	51.90	24.50	7.90%	5.96%	21.9	2026/1/6
D2600V2_Head	13.50	6.01	54.00	24.04	55.30	24.70	-2.35%	-2.67%	22.2	2025/12/27
D2600V2_Head	14.80	6.64	59.20	26.56	55.30	24.70	7.05%	7.53%	22.0	2025/12/29
D2600V2_Head	14.90	6.55	59.60	26.20	55.30	24.70	7.78%	6.07%	22.1	2026/1/4
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_3.5GHz_Head	6.92	2.61	69.20	26.10	65.80	25.00	5.17%	4.40%	21.6	2026/1/8
D3700V2_Head	6.95	2.64	69.50	26.40	67.30	24.70	3.27%	6.88%	21.9	2026/1/22
D3900V2_3.9GHz_Head	7.00	2.45	70.00	24.50	67.00	23.50	4.48%	4.26%	23.5	2026/1/4
D3900V2_3.9GHz_Head	7.02	2.51	70.20	25.10	67.00	23.50	4.78%	6.81%	22.4	2026/1/6
D5GHzV2_5.25G_Head	7.73	2.19	77.30	21.90	79.00	21.80	-2.15%	0.46%	22.8	2026/1/2
D5GHzV2_5.6G_Head	8.45	2.41	84.50	24.10	81.60	22.50	3.55%	7.11%	22.6	2025/12/31
D5GHzV2_5.75G_Head	7.95	2.25	79.50	22.50	78.30	21.30	1.53%	5.63%	22.9	2025/12/29

Table 3 : SAR System Check Result

6.2.4 Detailed System Check Results

Please see the Appendix A

7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

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

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

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

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

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

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

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

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

7.1.2 WCDMA Test Configuration

1) Output Power Verification

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

2) Head SAR

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

3) Body SAR



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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	β_d	$\beta_d(SF)$	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs = 30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs = 24/15) with $\beta_{hs} = 24/15 * \beta_c$.

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



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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 4 : 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 5 : HSDPA UE category

b) HSUPA

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



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Sub-test ¹	$\beta_{\text{e}}^{\text{2}}$	$\beta_{\text{d}}^{\text{3}}$	β_{d} (SF) ⁴	$\beta_{\text{e}}/\beta_{\text{d}}^{\text{5}}$	$\beta_{\text{hz}}^{\text{6}}$	$\beta_{\text{ac}}^{\text{7}}$	$\beta_{\text{ed}}^{\text{8}}$	β_{e} (SF) ⁹	$\beta_{\text{ed}}^{\text{10}}$ (code) ¹¹	CM (dB) ¹²	MP R _x (dB) ¹³	AG ¹⁴ Index ¹⁵	E-TFC I ¹⁶
1 ¹	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ¹⁷	11/15 ⁽³⁾	22/15 ¹⁸	209/225 ¹⁹	1039/225 ²⁰	4 ²¹	1 ²²	1.0 ²³	0.0 ²⁴	20 ²⁵	75 ²⁶
2 ¹	6/15 ²⁷	15/15 ²⁸	64 ²⁹	6/15 ³⁰	12/15 ³¹	12/15 ³²	94/75 ³³	4 ³⁴	1 ³⁵	3.0 ³⁶	2.0 ³⁷	12 ³⁸	67 ³⁹
3 ¹	15/15 ⁴⁰	9/15 ⁴¹	64 ⁴²	15/9 ⁴³	30/15 ⁴⁴	30/15 ⁴⁵	$\beta_{\text{ed1}}: 47/15^{\text{46}}$ $\beta_{\text{ed2}}: 47/15^{\text{47}}$	4 ⁴⁸	2 ⁴⁹	2.0 ⁵⁰	1.0 ⁵¹	15 ⁵²	92 ⁵³
4 ¹	2/15 ⁵⁴	15/15 ⁵⁵	64 ⁵⁶	2/15 ⁵⁷	4/15 ⁵⁸	2/15 ⁵⁹	56/75 ⁶⁰	4 ⁶¹	1 ⁶²	3.0 ⁶³	2.0 ⁶⁴	17 ⁶⁵	71 ⁶⁶
5 ¹	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁶⁷	15/15 ⁽⁴⁾	30/15 ⁶⁸	24/15 ⁶⁹	134/15 ⁷⁰	4 ⁷¹	1 ⁷²	1.0 ⁷³	0.0 ⁷⁴	21 ⁷⁵	81 ⁷⁶

Note 1: ΔACK , ΔNACK and $\Delta \text{CQI} = 8$ $A_{\text{hz}} = \beta_{\text{hz}}/\beta_{\text{e}} = 30/15$ $\beta_{\text{hz}} = 30/15 * \beta_{\text{e}}^{\text{77}}$
 Note 2: CM = 1 for $\beta_{\text{e}}/\beta_{\text{d}} = 12/15$, $\beta_{\text{hz}}/\beta_{\text{e}} = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
 Note 3: For subtest 1 the $\beta_{\text{e}}/\beta_{\text{d}}$ 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 $\beta_{\text{e}} = 10/15$ and $\beta_{\text{d}} = 15/15^{\text{78}}$
 Note 4: For subtest 5 the $\beta_{\text{e}}/\beta_{\text{d}}$ 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 $\beta_{\text{e}} = 14/15$ and $\beta_{\text{d}} = 15/15^{\text{79}}$
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.⁸⁰

Table 6: 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 7: 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



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

Note:

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



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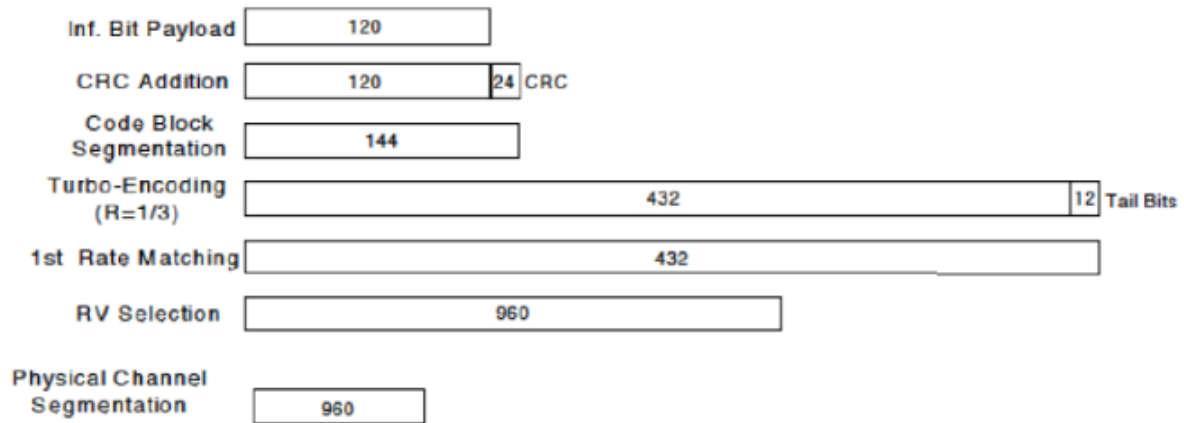


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test ¹	β_c ²	β_d ³	$\beta_d \cdot (SF)$ ⁴	β_c / β_d ⁵	$\beta_{hs}(1)$ ⁶	CM(dB)(2) ⁷	MPR ⁸ (dB)
1 ⁹	2/15 ¹⁰	15/15 ¹¹	64 ¹²	2/15 ¹³	4/15 ¹⁴	0.0 ¹⁵	0 ¹⁶
2 ¹⁷	12/15(3) ¹⁸	15/15(3) ¹⁹	64 ²⁰	12/15(3) ²¹	24/15 ²²	1.0 ²³	0 ²⁴
3 ²⁵	15/15 ²⁶	8/15 ²⁷	64 ²⁸	15/8 ²⁹	30/15 ³⁰	1.5 ³¹	0.5 ³²
4 ³³	15/15 ³⁴	4/15 ³⁵	64 ³⁶	15/4 ³⁷	30/15 ³⁸	1.5 ³⁹	0.5 ⁴⁰

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

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.

d) HSPA+

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

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

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

5) 3G SAR Test Reduction Procedure

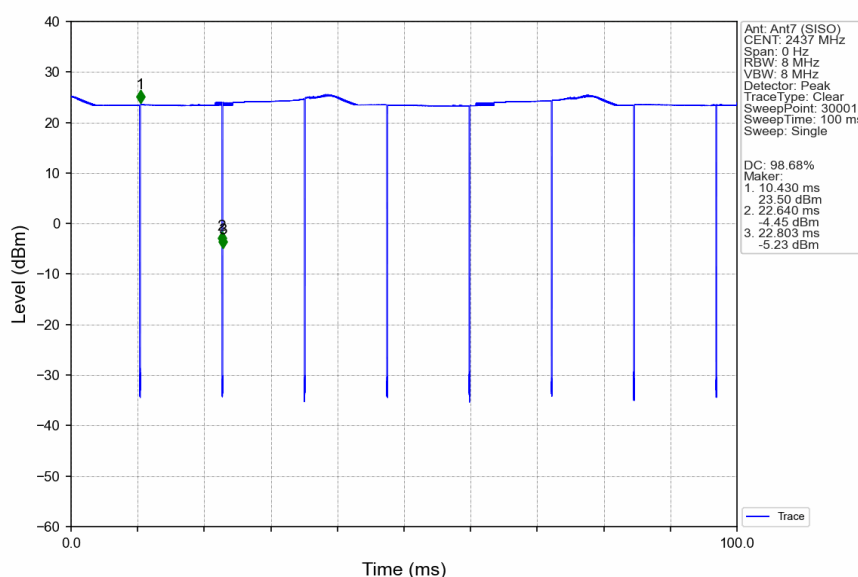
According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.

7.1.3 WIFI Test Configuration

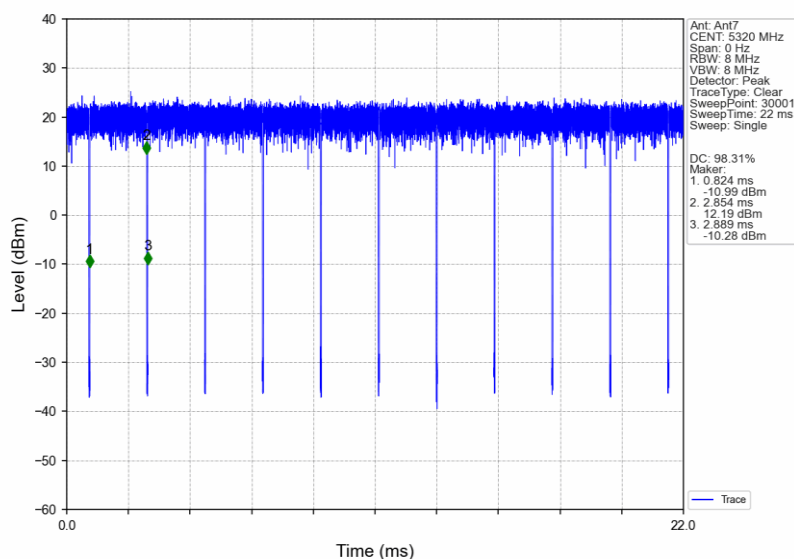
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.1.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b: Duty cycle=98.68%



2) Wi-Fi 5GHz 802.11n40: Duty cycle=98.31%



7.1.3.2 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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7.1.3.3 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"

7.1.3.4 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.

7.1.3.5 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.



OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

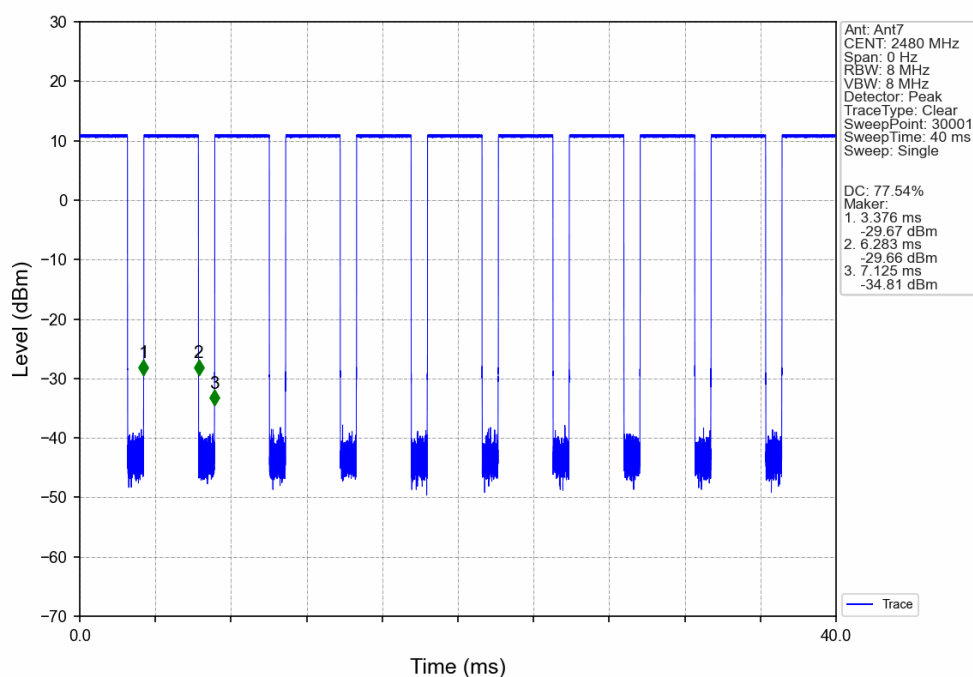
• SAR Test Requirements for OFDM configurations

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

7.1.4 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

BT DH5 Duty Cycle=77.54%



7.1.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The 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:

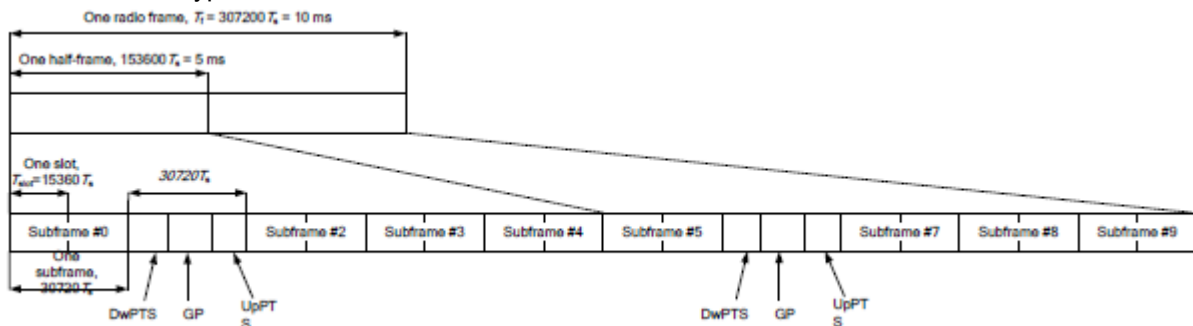


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.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

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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F) LTE CA additional specification

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

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

The downlink LTE CA test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA 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.

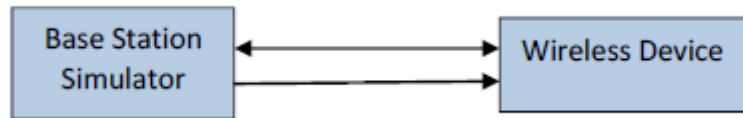
6) General PCC and SCC configuration selection procedure

- 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		B2	B5	B4	B7	B12
		ANT2	ANT0	ANT2	ANT4	ANT0
B7	ANT4	√	√	√		
B12	ANT0			√	√	
B17	ANT0			√		
B66	ANT2				√	√

7.1.6 NR Band Test Configuration

- 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	LTE Band 12	LTE Band 13	LTE Band 25	LTE Band 66		LTE Band 71	LTE Band 30
	ANT1	ANT2	ANT1	ANT0	ANT4	ANT0	ANT0	ANT1	ANT1	ANT2	ANT0	ANT6
n2	ANT1				✓							
	ANT2			✓	✓	✓	✓		✓		✓	
n5	ANT0	✓			✓					✓		
n41	ANT4	✓	✓	✓		✓		✓	✓		✓	
n66	ANT1	✓										
	ANT2	✓		✓	✓	✓	✓				✓	✓
n71	ANT0		✓		✓					✓		
n77	ANT2	✓		✓	✓	✓	✓	✓	✓		✓	
n78	ANT2	✓	✓	✓	✓	✓	✓	✓	✓		✓	

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

Band			n2	n5	n7	n25	n38	n41	n66	n71	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	

Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	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
	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
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
	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
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	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
n25	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	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
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
	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	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
	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	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
n71	15 kHz	Yes	Yes	Yes	Yes	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
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
	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	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
	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

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



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1 and Table 6.2.2 -2.

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

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

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *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 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *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.

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

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

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.



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

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

- 1) The test device is a smart phone, and the diagonal distance of this device is $\geq 160\text{mm}$ but $\leq 200\text{mm}$, so it is a Phablet per KDB 648474 D04.
- 2) The distance between the antennas and the sides of the EUT show as below table, when the antenna-to-edge distance is greater than 25mm, such position does not need to be SAR tested.

Antenna to edge distance						
Antenna	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
ANT0	<25mm	<25mm	<25mm	<25mm	<25mm	>25mm
ANT1	<25mm	<25mm	<25mm	<25mm	>25mm	<25mm
ANT2	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
ANT4	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
ANT6	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
ANT7	<25mm	<25mm	<25mm	<25mm	<25mm	>25mm

8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power reduction specification

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

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

8.2.2 RF Conducted Power Data

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

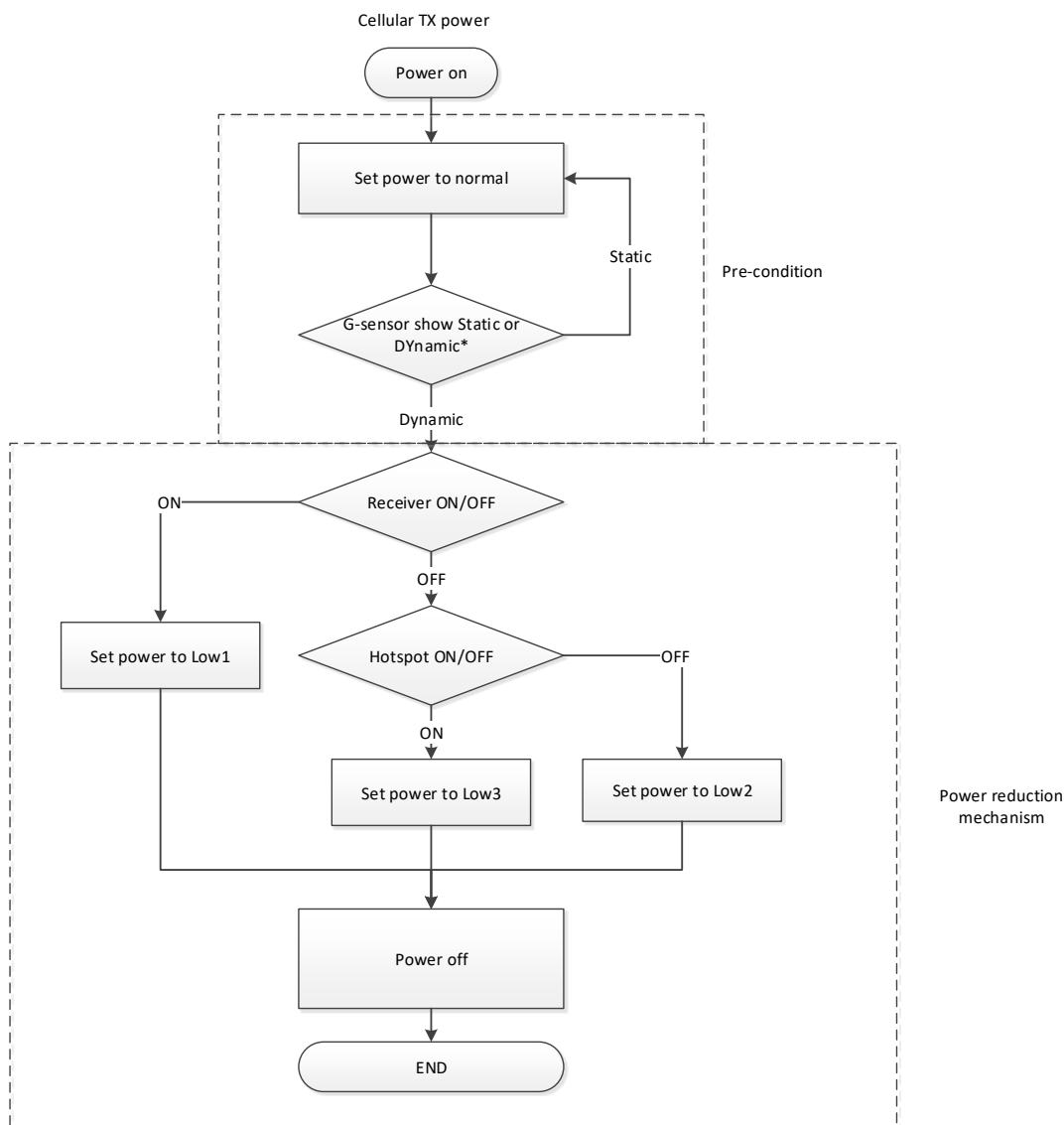
1. WWAN part transmit power reduce process

Mobile Gravity Sensor (G-sensor) periodically detect mobile's state, when G-sensor detects mobile as static state, mobile's transmit power remain as maximum (max or normal), when G-sensor detects mobile as moving state, mobile's transmit power reduce process follow below strategy:

- Sar_SET_1(DSI0)(head): Receiver on
- Sar_SET_2(DSI1)(body 10mm): Receiver off

Note that, when mobile is in "static" state, the detection frequency is 200ms. When mobile is in "dynamic" state, the detection frequency is 30s.

Detail Power reduction mechanism



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It is set to be tested once in 200ms, and the following is the test data in 1s time.

User Case	Making call and beside head and hand	Browsing	In people's pockets(Sit still)	Leaving the body and putting on a stationary table	Leaving the body and putting in a moving place
Mobile phone status	In the right hand	Hold with your right hand and slide the LCD with your thumb	In the chest pocket	On the table	People are walking, phones are in backpacks
The maximum of three axes change from G-sensor	0.9827641	-0.6239486	-0.5840999	0.0038405	2.5372624
	0.9763278	-0.7625513	-0.7129472	0.0023492	3.7663474
	0.8736492	0.5963298	-0.6520843	-0.0108847	-1.8765382
	0.7638496	0.6340932	-0.6927452	0.0023942	-2.6253849
	1.2849643	0.8776534	-0.7839562	0.0053849	-2.8255271

The maximum of three axes change from G- sensor is the comparison difference between the currently detected xyz position and the previous xyz position. It is the acceleration value obtained from the sensor event, and then the code value obtained after calculation and can be seen under engineering commands with internal developer permissions.

SET Description	Test Conditions	Test Scenario Explanation	Test Antenna Position Number
SET_1	Receiver on	Head SAR	All WWAN Antennas
SET_2	Receiver off	Body SAR	All WWAN Antennas



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.
- 5) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 6) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission. The NFC SAR data can refer to NFC Report with Report No.SUCR251200121201.
- 7) 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.

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8.3.1 SAR Result of GSM850

Ant 0 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 SET 1											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.530	0.333	0.03	28.41	29.00	1.146	0.607	22.0
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.575	0.324	-0.14	28.41	29.00	1.146	0.659	22.0
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.660	0.368	-0.03	28.41	29.00	1.146	0.756	22.0
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.685	0.380	0.04	28.41	29.00	1.146	0.785	22.0
Right tilted	GPRS 3TS	128/824.2	1:2.77	0.740	0.376	-0.04	28.31	29.00	1.172	0.867	22.0
Right tilted	GPRS 3TS	251/848.8	1:2.77	0.768	0.410	0.01	28.36	29.00	1.159	0.890	22.0
Body worn&Hotspot Test data(Separate 10mm) SET 2											
Front side	GPRS 3TS	190/836.6	1:2.77	0.403	0.231	-0.19	28.41	29.00	1.146	0.462	22.0
Back side	GPRS 3TS	190/836.6	1:2.77	0.537	0.322	-0.07	28.41	29.00	1.146	0.615	22.0
Back side	GPRS 3TS	128/824.2	1:2.77	0.532	0.314	-0.01	28.31	29.00	1.172	0.624	22.0
Back side	GPRS 3TS	251/848.8	1:2.77	0.641	0.371	-0.04	28.36	29.00	1.159	0.743	22.0
Left side	GPRS 3TS	190/836.6	1:2.77	0.297	0.200	-0.11	28.41	29.00	1.146	0.340	22.0
Right side	GPRS 3TS	190/836.6	1:2.77	0.111	0.074	0.17	28.41	29.00	1.146	0.127	22.0
Top side	GPRS 3TS	190/836.6	1:2.77	0.634	0.322	0.05	28.41	29.00	1.146	0.727	22.0
Top side	GPRS 3TS	128/824.2	1:2.77	0.618	0.322	0.02	28.31	29.00	1.172	0.724	22.0
Top side	GPRS 3TS	251/848.8	1:2.77	0.681	0.387	-0.19	28.36	29.00	1.159	0.789	22.0



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8.3.2 SAR Result of GSM1900

Ant 2 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 SET_1											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.669	0.362	-0.06	24.07	25.00	1.239	0.829	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.223	0.127	0.09	24.07	25.00	1.239	0.276	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.237	0.151	0.07	24.07	25.00	1.239	0.294	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.209	0.127	0.15	24.07	25.00	1.239	0.259	22.1
Left cheek	GPRS 4TS	512/1850.2	1:2.075	0.788	0.427	-0.05	24.03	25.00	1.250	0.985	22.1
Left cheek	GPRS 4TS	810/1909.8	1:2.075	0.620	0.311	-0.12	23.97	25.00	1.268	0.786	22.1
Body worn&Hotspot Test data(Separate 10mm) SET_2											
Front side	GPRS 3TS	810/1909.8	1:2.77	0.356	0.208	-0.01	26.72	28.00	1.343	0.478	22.1
Back side	GPRS 3TS	810/1909.8	1:2.77	0.451	0.226	0.10	26.72	28.00	1.343	0.606	22.1
Right side	GPRS 3TS	810/1909.8	1:2.77	0.371	0.196	0.07	26.72	28.00	1.343	0.498	22.1
Top side	GPRS 3TS	810/1909.8	1:2.77	0.177	0.100	0.09	26.72	28.00	1.343	0.238	22.1
Back side	GPRS 3TS	512/1850.2	1:2.77	0.421	0.232	-0.17	26.67	28.00	1.358	0.572	22.1
Back side	GPRS 3TS	661/1880	1:2.77	0.425	0.228	0.12	26.67	28.00	1.358	0.577	22.1



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8.3.3 SAR Result of WCDMA Band II

Ant 2 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 SET_1											
Left cheek	RMC	9400/1880	1:1	0.846	0.482	-0.15	19.95	20.50	1.135	0.960	21.8
Left tilted	RMC	9400/1880	1:1	0.370	0.207	-0.08	19.95	20.50	1.135	0.420	21.8
Right cheek	RMC	9400/1880	1:1	0.346	0.233	-0.11	19.95	20.50	1.135	0.393	21.8
Right tilted	RMC	9400/1880	1:1	0.282	0.173	0.02	19.95	20.50	1.135	0.320	21.8
Left cheek	RMC	9262/1852.4	1:1	0.949	0.510	0.07	19.87	20.50	1.156	1.097	21.8
Left cheek	RMC	9538/1907.6	1:1	0.846	0.476	0.18	19.89	20.50	1.151	0.974	21.8
Left cheek-Repeated	RMC	9262/1852.4	1:1	0.926	0.487	0.04	19.87	20.50	1.156	1.070	21.8
Body worn&Hotspot Test data(Separate 10mm) SET_2											
Front side	RMC	9400/1880	1:1	0.411	0.216	-0.11	21.97	22.50	1.130	0.464	21.8
Back side	RMC	9400/1880	1:1	0.422	0.235	-0.09	21.97	22.50	1.130	0.477	21.8
Right side	RMC	9400/1880	1:1	0.386	0.185	-0.15	21.97	22.50	1.130	0.436	21.8
Top side	RMC	9400/1880	1:1	0.204	0.115	0.05	21.97	22.50	1.130	0.231	21.8
Back side	RMC	9262/1852.4	1:1	0.453	0.236	0.04	21.91	22.50	1.146	0.519	21.8
Back side	RMC	9538/1907.6	1:1	0.442	0.258	0.14	21.87	22.50	1.156	0.511	21.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	9262/1852.4	0.949	0.926	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

8.3.4 SAR Result of WCDMA Band IV

Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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 SET 1											
Left cheek	RMC	1412/1732.4	1:1	0.745	0.413	-0.07	20.71	21.50	1.199	0.893	22.1
Left tilted	RMC	1412/1732.4	1:1	0.280	0.160	0.18	20.71	21.50	1.199	0.336	22.1
Right cheek	RMC	1412/1732.4	1:1	0.247	0.158	-0.02	20.71	21.50	1.199	0.296	22.1
Right tilted	RMC	1412/1732.4	1:1	0.237	0.147	0.07	20.71	21.50	1.199	0.284	22.1
Left cheek	RMC	1312/1712.4	1:1	0.745	0.403	0.15	20.65	21.50	1.216	0.906	22.1
Left cheek	RMC	1513/1752.6	1:1	0.950	0.521	0.11	20.67	21.50	1.211	1.150	22.1
Left cheek-Repeated	RMC	1513/1752.6	1:1	0.932	0.487	0.11	20.67	21.50	1.211	1.129	22.1
Body worn&Hotspot Test data(Separate 10mm) SET 2											
Front side	RMC	1412/1732.4	1:1	0.336	0.207	0.08	21.74	22.50	1.191	0.400	22.1
Back side	RMC	1412/1732.4	1:1	0.433	0.257	0.01	21.74	22.50	1.191	0.516	22.1
Right side	RMC	1412/1732.4	1:1	0.366	0.213	0.02	21.74	22.50	1.191	0.436	22.1
Top side	RMC	1412/1732.4	1:1	0.176	0.103	-0.01	21.74	22.50	1.191	0.210	22.1
Back side	RMC	1312/1712.4	1:1	0.392	0.238	0.09	21.63	22.50	1.222	0.479	22.1
Back side	RMC	1513/1752.6	1:1	0.462	0.247	0.04	21.68	22.50	1.208	0.558	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	1513/1752.6	0.950	0.932	1.019	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						

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8.3.5 SAR Result of WCDMA Band V

Ant 0 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 SET 1											
Left cheek	RMC	4182/836.4	1:1	0.549	0.346	0.10	23.35	24.00	1.161	0.637	21.8
Left tilted	RMC	4182/836.4	1:1	0.499	0.274	-0.08	23.35	24.00	1.161	0.579	21.8
Right cheek	RMC	4182/836.4	1:1	0.696	0.389	0.14	23.35	24.00	1.161	0.808	21.8
Right tilted	RMC	4182/836.4	1:1	0.670	0.357	-0.18	23.35	24.00	1.161	0.778	21.8
Right cheek	RMC	4132/826.4	1:1	0.779	0.442	-0.02	23.29	24.00	1.178	0.918	21.8
Right cheek	RMC	4233/846.6	1:1	0.683	0.394	0.12	23.24	24.00	1.191	0.813	21.8
Body worn&Hotspot Test data(Separate 10mm) SET 2											
Front side	RMC	4182/836.4	1:1	0.279	0.168	0.09	21.31	22.00	1.172	0.327	21.8
Back side	RMC	4182/836.4	1:1	0.364	0.212	-0.11	21.31	22.00	1.172	0.427	21.8
Left side	RMC	4182/836.4	1:1	0.221	0.144	-0.13	21.31	22.00	1.172	0.259	21.8
Right side	RMC	4182/836.4	1:1	0.089	0.056	0.12	21.31	22.00	1.172	0.104	21.8
Top side	RMC	4182/836.4	1:1	0.361	0.192	-0.06	21.31	22.00	1.172	0.423	21.8
Back side	RMC	4132/826.4	1:1	0.272	0.163	-0.18	21.25	22.00	1.189	0.323	21.8
Back side	RMC	4233/846.6	1:1	0.287	0.168	0.13	21.23	22.00	1.194	0.343	21.8



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8.3.6 SAR Result of LTE Band 5

Ant 0 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) SET 1													
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.636	0.389	0.16	23.99	25.00	1.262	0.803	21.9	
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.594	0.329	0.04	23.99	25.00	1.262	0.750	21.9	
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.879	0.522	-0.03	23.99	25.00	1.262	1.109	21.9	
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.798	0.416	0.19	23.99	25.00	1.262	1.007	21.9	
Right cheek-Repeated	10	QPSK 1_0	20525/836.5	1:1	0.820	0.507	-0.03	23.99	25.00	1.262	1.035	21.9	
Head Test Data (50%RB) SET 1													
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.534	0.324	-0.13	23.28	24.00	1.180	0.630	21.9	
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.494	0.273	0.00	23.28	24.00	1.180	0.583	21.9	
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.613	0.343	0.17	23.28	24.00	1.180	0.723	21.9	
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.597	0.315	-0.10	23.28	24.00	1.180	0.704	21.9	
Head Test Data (100%RB) SET 1													
Left cheek	10	QPSK 50_0	20525/836.5	1:1	0.578	0.355	0.14	23.15	24.00	1.216	0.703	21.9	
Right cheek	10	QPSK 50_0	20525/836.5	1:1	0.589	0.371	-0.04	23.15	24.00	1.216	0.716	21.9	
Head Evaluate Data (1RB) SET 1 with Inter Band LTE Uplink CA&EDNC													
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.636	0.389	0.16	23.99	22.00	0.632	0.402	21.9	
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.594	0.329	0.04	23.99	22.00	0.632	0.375	21.9	
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.879	0.522	-0.03	23.99	22.00	0.632	0.556	21.9	
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.798	0.416	0.19	23.99	22.00	0.632	0.504	21.9	
Right cheek-Repeated	10	QPSK 1_0	20525/836.5	1:1	0.820	0.507	-0.03	23.99	22.00	0.632	0.518	21.9	
Head Evaluate Data (50%RB) SET 1 with Inter Band LTE Uplink CA&EDNC													
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.534	0.324	-0.13	23.28	22.00	0.745	0.398	21.9	
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.494	0.273	0.00	23.28	22.00	0.745	0.368	21.9	
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.613	0.343	0.17	23.28	22.00	0.745	0.457	21.9	
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.597	0.315	-0.10	23.28	22.00	0.745	0.445	21.9	
Head Evaluate Data (100%RB) SET 1 with Inter Band LTE Uplink CA&EDNC													
Left cheek	10	QPSK 50_0	20525/836.5	1:1	0.578	0.355	0.14	23.15	22.00	0.767	0.443	21.9	
Right cheek	10	QPSK 50_0	20525/836.5	1:1	0.589	0.371	-0.04	23.15	22.00	0.767	0.452	21.9	
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2													
Front side	10	QPSK 1_0	20525/836.5	1:1	0.498	0.299	-0.01	23.87	25.00	1.297	0.646	21.9	
Back side	10	QPSK 1_0	20525/836.5	1:1	0.589	0.348	-0.02	23.87	25.00	1.297	0.764	21.9	
Left side	10	QPSK 1_0	20525/836.5	1:1	0.329	0.213	-0.09	23.87	25.00	1.297	0.427	21.9	
Right side	10	QPSK 1_0	20525/836.5	1:1	0.157	0.102	0.18	23.87	25.00	1.297	0.204	21.9	
Top side	10	QPSK 1_0	20525/836.5	1:1	0.465	0.224	0.14	23.87	25.00	1.297	0.603	21.9	
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2													



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Front side	10	QPSK 25_0	20525/836.5	1:1	0.367	0.218	0.17	23.16	24.00	1.213	0.445	21.9
Back side	10	QPSK 25_0	20525/836.5	1:1	0.492	0.293	0.00	23.16	24.00	1.213	0.597	21.9
Left side	10	QPSK 25_0	20525/836.5	1:1	0.256	0.166	0.06	23.16	24.00	1.213	0.311	21.9
Right side	10	QPSK 25_0	20525/836.5	1:1	0.129	0.084	0.00	23.16	24.00	1.213	0.156	21.9
Top side	10	QPSK 25_0	20525/836.5	1:1	0.424	0.201	-0.09	23.16	24.00	1.213	0.514	21.9
Body worn&Hotspot Evaluate data (Separate 10mm 1RB) SET_2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.498	0.299	-0.01	23.87	22.00	0.650	0.324	21.9
Back side	10	QPSK 1_0	20525/836.5	1:1	0.589	0.348	-0.02	23.87	22.00	0.650	0.383	21.9
Left side	10	QPSK 1_0	20525/836.5	1:1	0.329	0.213	-0.09	23.87	22.00	0.650	0.214	21.9
Right side	10	QPSK 1_0	20525/836.5	1:1	0.157	0.102	0.18	23.87	22.00	0.650	0.102	21.9
Top side	10	QPSK 1_0	20525/836.5	1:1	0.465	0.224	0.14	23.87	22.00	0.650	0.302	21.9
Body worn&Hotspot Evaluate data (Separate 10mm 50RB) SET_2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.367	0.218	0.17	23.16	22.00	0.766	0.281	21.9
Back side	10	QPSK 25_0	20525/836.5	1:1	0.492	0.293	0.00	23.16	22.00	0.766	0.377	21.9
Left side	10	QPSK 25_0	20525/836.5	1:1	0.256	0.166	0.06	23.16	22.00	0.766	0.196	21.9
Right side	10	QPSK 25_0	20525/836.5	1:1	0.129	0.084	0.00	23.16	22.00	0.766	0.099	21.9
Top side	10	QPSK 25_0	20525/836.5	1:1	0.424	0.201	-0.09	23.16	22.00	0.766	0.325	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	20525/836.5	0.879	0.820	1.072	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						



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8.3.7 SAR Result of LTE Band 7

Ant 4 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) SET_1												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.277	0.151	0.05	18.72	20.00	1.343	0.372	21.9
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.133	0.071	0.15	18.72	20.00	1.343	0.179	21.9
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.822	0.394	0.15	18.72	20.00	1.343	1.104	21.9
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.189	0.102	0.08	18.72	20.00	1.343	0.254	21.9
Right cheek	20	QPSK 1_50	20850/2510	1:1	0.911	0.428	0.01	18.68	20.00	1.355	1.234	21.9
Right cheek-Repeated	20	QPSK 1_50	20850/2510	1:1	0.836	0.394	-0.03	18.68	20.00	1.355	1.133	21.9
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.826	0.398	0.07	18.52	20.00	1.406	1.161	21.9
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.301	0.171	-0.16	18.59	20.00	1.384	0.417	21.9
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.135	0.072	0.06	18.59	20.00	1.384	0.187	21.9
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.733	0.344	0.16	18.59	20.00	1.384	1.014	21.9
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.141	0.069	0.17	18.59	20.00	1.384	0.195	21.9
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.782	0.369	0.02	18.49	20.00	1.416	1.107	21.9
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.699	0.328	-0.03	18.56	20.00	1.393	0.974	21.9
Head Test Data (100%RB) SET_1												
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.756	0.428	0.01	18.58	20.00	1.387	1.049	21.9
Head Evaluate Data (1RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.277	0.151	0.05	18.72	18.00	0.847	0.235	21.9
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.133	0.071	0.15	18.72	18.00	0.847	0.113	21.9
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.822	0.394	0.15	18.72	18.00	0.847	0.696	21.9
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.189	0.102	0.08	18.72	18.00	0.847	0.160	21.9
Right cheek	20	QPSK 1_50	20850/2510	1:1	0.911	0.428	0.01	18.68	18.00	0.855	0.779	21.9
Right cheek-Repeated	20	QPSK 1_50	20850/2510	1:1	0.836	0.394	-0.03	18.68	18.00	0.855	0.715	21.9
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.826	0.398	0.07	18.52	18.00	0.887	0.733	21.9
Head Evaluate Data (50%RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.301	0.171	-0.16	18.59	18.00	0.873	0.263	21.9
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.135	0.072	0.06	18.59	18.00	0.873	0.118	21.9
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.733	0.344	0.16	18.59	18.00	0.873	0.640	21.9
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.141	0.069	0.17	18.59	18.00	0.873	0.123	21.9
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.782	0.369	0.02	18.49	18.00	0.893	0.698	21.9
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.699	0.328	-0.03	18.56	18.00	0.879	0.614	21.9
Head Evaluate Data (100%RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.756	0.428	0.01	18.58	18.00	0.875	0.662	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_50	21100/2535	1:1	0.206	0.110	0.00	17.61	19.00	1.377	0.284	21.9
Back side	20	QPSK 1_50	21100/2535	1:1	0.369	0.184	-0.11	17.61	19.00	1.377	0.508	21.9
Left side	20	QPSK 1_50	21100/2535	1:1	0.356	0.181	0.12	17.61	19.00	1.377	0.490	21.9
Top side	20	QPSK 1_50	21100/2535	1:1	0.078	0.040	0.02	17.61	19.00	1.377	0.107	21.9
Back side	20	QPSK 1_50	20850/2510	1:1	0.426	0.217	0.07	17.52	19.00	1.406	0.599	21.9
Back side	20	QPSK 1_50	21350/2560	1:1	0.347	0.179	0.03	17.51	19.00	1.409	0.489	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_0	21100/2535	1:1	0.299	0.146	-0.04	17.65	19.00	1.365	0.408	21.9



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Back side	20	QPSK 50_0	21100/2535	1:1	0.501	0.243	-0.03	17.65	19.00	1.365	0.684	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.392	0.192	0.00	17.65	19.00	1.365	0.535	21.9
Top side	20	QPSK 50_0	21100/2535	1:1	0.095	0.050	0.14	17.65	19.00	1.365	0.130	21.9
Back side	20	QPSK 50_0	20850/2510	1:1	0.555	0.266	0.05	17.56	19.00	1.393	0.773	21.9
Back side	20	QPSK 50_0	21350/2560	1:1	0.452	0.219	0.06	17.57	19.00	1.390	0.628	21.9
Body worn&Hotspot Evaluate data (Separate 10mm 1RB) SET_2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 1_50	21100/2535	1:1	0.206	0.110	0.00	17.61	17.00	0.869	0.179	21.9
Back side	20	QPSK 1_50	21100/2535	1:1	0.369	0.184	-0.11	17.61	17.00	0.869	0.321	21.9
Left side	20	QPSK 1_50	21100/2535	1:1	0.356	0.181	0.12	17.61	17.00	0.869	0.309	21.9
Top side	20	QPSK 1_50	21100/2535	1:1	0.078	0.040	0.02	17.61	17.00	0.869	0.068	21.9
Back side	20	QPSK 1_50	20850/2510	1:1	0.426	0.217	0.07	17.52	17.00	0.887	0.378	21.9
Back side	20	QPSK 1_50	21350/2560	1:1	0.347	0.179	0.03	17.51	17.00	0.889	0.308	21.9
Body worn&Hotspot Evaluate data (Separate 10mm 50RB) SET_2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 50_0	21100/2535	1:1	0.299	0.146	-0.04	17.65	17.00	0.861	0.257	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.501	0.243	-0.03	17.65	17.00	0.861	0.431	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.392	0.192	0.00	17.65	17.00	0.861	0.338	21.9
Top side	20	QPSK 50_0	21100/2535	1:1	0.095	0.050	0.14	17.65	17.00	0.861	0.082	21.9
Back side	20	QPSK 50_0	20850/2510	1:1	0.555	0.266	0.05	17.56	17.00	0.879	0.488	21.9
Back side	20	QPSK 50_0	21350/2560	1:1	0.452	0.219	0.06	17.57	17.00	0.877	0.396	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	20850/2510	0.911	0.836	1.090	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						



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8.3.8 SAR Result of LTE Band 12(17)

Ant 0 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) SET_1												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.379	0.242	0.08	23.79	25.00	1.321	0.501	21.9
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.283	0.176	-0.04	23.79	25.00	1.321	0.374	21.9
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.654	0.429	-0.01	23.79	25.00	1.321	0.864	21.9
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.458	0.238	-0.05	23.79	25.00	1.321	0.605	21.9
Right cheek	5	QPSK PCC 1_24	23038/701.8	1:1	0.536	0.413	-0.06	24.03	25.00	1.250	0.670	21.9
		QPSK SCC 1_0	23110/709									
Head Test Data (50%RB) SET_1												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.288	0.186	0.01	23.09	24.00	1.233	0.355	21.9
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.232	0.143	-0.04	23.09	24.00	1.233	0.286	21.9
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.432	0.244	-0.08	23.09	24.00	1.233	0.533	21.9
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.366	0.191	-0.16	23.09	24.00	1.233	0.451	21.9
Head Test Data (100%RB) SET_1												
Right cheek	10	QPSK 50_0	23095/707.5	1:1	0.457	0.255	0.05	23.02	24.00	1.253	0.573	21.9
Head Evaluate Data (1RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.379	0.242	0.08	23.79	22.00	0.662	0.251	21.9
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.283	0.176	-0.04	23.79	22.00	0.662	0.187	21.9
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.654	0.429	-0.01	23.79	22.00	0.662	0.433	21.9
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.458	0.238	-0.05	23.79	22.00	0.662	0.303	21.9
Right cheek	5	QPSK PCC 1_24	23038/701.8	1:1	0.536	0.413	-0.01	24.03	22.00	0.627	0.336	21.9
		QPSK SCC 1_0	23110/709									
Head Evaluate Data (50%RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.288	0.186	0.01	23.09	22.00	0.778	0.224	21.9
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.232	0.143	-0.04	23.09	22.00	0.778	0.180	21.9
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.432	0.244	-0.08	23.09	22.00	0.778	0.336	21.9
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.366	0.191	-0.16	23.09	22.00	0.778	0.285	21.9
Head Evaluate Data (100%RB) SET_1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	10	QPSK 50_0	23095/707.5	1:1	0.457	0.255	0.05	23.02	22.00	0.791	0.361	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.222	0.136	0.09	23.79	25.00	1.321	0.293	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.308	0.182	0.06	23.79	25.00	1.321	0.407	21.9
Left side	10	QPSK 1_0	23095/707.5	1:1	0.261	0.208	0.16	23.79	25.00	1.321	0.345	21.9
Right side	10	QPSK 1_0	23095/707.5	1:1	0.160	0.106	-0.17	23.79	25.00	1.321	0.211	21.9
Top side	10	QPSK 1_0	23095/707.5	1:1	0.352	0.131	-0.01	23.79	25.00	1.321	0.465	21.9



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Top side	5	QPSK PCC 1_24 QPSK SCC 1_0	23038/701.8 23110/709	1:1	0.312	0.123	-0.09	24.03	25.00	1.250	0.390	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.184	0.114	0.03	23.09	24.00	1.233	0.227	21.9
Back side	10	QPSK 25_0	23095/707.5	1:1	0.251	0.152	-0.13	23.09	24.00	1.233	0.309	21.9
Left side	10	QPSK 25_0	23095/707.5	1:1	0.251	0.167	0.14	23.09	24.00	1.233	0.309	21.9
Right side	10	QPSK 25_0	23095/707.5	1:1	0.126	0.083	0.01	23.09	24.00	1.233	0.155	21.9
Top side	10	QPSK 25_0	23095/707.5	1:1	0.321	0.164	0.17	23.09	24.00	1.233	0.396	21.9



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8.3.9 SAR Result of LTE Band 13

Ant 0 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) SET_1												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.378	0.301	0.07	23.96	25.00	1.271	0.480	21.9
Left tilted	10	QPSK 1_0	23230/782	1:1	0.361	0.262	-0.12	23.96	25.00	1.271	0.459	21.9
Right cheek	10	QPSK 1_0	23230/782	1:1	0.637	0.389	-0.06	23.96	25.00	1.271	0.810	21.9
Right tilted	10	QPSK 1_0	23230/782	1:1	0.586	0.317	-0.13	23.96	25.00	1.271	0.745	21.9
Head Test Data (50%RB) SET_1												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.376	0.239	-0.15	23.05	24.00	1.245	0.468	21.9
Left tilted	10	QPSK 25_0	23230/782	1:1	0.359	0.210	-0.05	23.05	24.00	1.245	0.447	21.9
Right cheek	10	QPSK 25_0	23230/782	1:1	0.501	0.285	-0.05	23.05	24.00	1.245	0.624	21.9
Right tilted	10	QPSK 25_0	23230/782	1:1	0.439	0.244	-0.08	23.05	24.00	1.245	0.547	21.9
Head Test Data (100%RB) SET_1												
Right cheek	10	QPSK 50_0	23230/782	1:1	0.512	0.288	0.09	23.05	24.00	1.245	0.637	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	10	QPSK 1_0	23230/782	1:1	0.339	0.209	0.15	23.96	25.00	1.271	0.431	21.9
Back side	10	QPSK 1_0	23230/782	1:1	0.484	0.278	0.02	23.96	25.00	1.271	0.615	21.9
Left side	10	QPSK 1_0	23230/782	1:1	0.372	0.245	-0.05	23.96	25.00	1.271	0.473	21.9
Right side	10	QPSK 1_0	23230/782	1:1	0.145	0.094	0.10	23.96	25.00	1.271	0.184	21.9
Top side	10	QPSK 1_0	23230/782	1:1	0.428	0.224	-0.08	23.96	25.00	1.271	0.544	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	10	QPSK 25_0	23230/782	1:1	0.277	0.169	0.04	23.05	24.00	1.245	0.345	21.9
Back side	10	QPSK 25_0	23230/782	1:1	0.336	0.196	0.19	23.05	24.00	1.245	0.418	21.9
Left side	10	QPSK 25_0	23230/782	1:1	0.295	0.194	0.14	23.05	24.00	1.245	0.367	21.9
Right side	10	QPSK 25_0	23230/782	1:1	0.111	0.073	0.17	23.05	24.00	1.245	0.138	21.9
Top side	10	QPSK 25_0	23230/782	1:1	0.358	0.188	-0.15	23.05	24.00	1.245	0.446	21.9

8.3.10 SAR Result of LTE Band 25(2)

Ant 2 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) SET_1												
Left cheek	20	QPSK 1_50	26365/1882.5	1:1	0.557	0.318	-0.09	18.63	19.50	1.222	0.681	21.9
Left tilted	20	QPSK 1_50	26365/1882.5	1:1	0.238	0.136	-0.08	18.63	19.50	1.222	0.291	21.9
Right cheek	20	QPSK 1_50	26365/1882.5	1:1	0.427	0.281	0.03	18.63	19.50	1.222	0.522	21.9
Right tilted	20	QPSK 1_50	26365/1882.5	1:1	0.361	0.222	0.04	18.63	19.50	1.222	0.441	21.9
Left cheek	20	QPSK 1_50	26140/1860	1:1	0.563	0.326	0.14	18.57	19.50	1.239	0.698	21.9
Left cheek	20	QPSK 1_50	26590/1905	1:1	0.509	0.295	-0.16	18.50	19.50	1.259	0.641	21.9
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.556	0.316	0.17	18.68	19.50	1.208	0.672	21.9
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.244	0.139	0.15	18.68	19.50	1.208	0.295	21.9
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.214	0.141	-0.14	18.68	19.50	1.208	0.259	21.9
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.191	0.117	-0.04	18.68	19.50	1.208	0.231	21.9
Left cheek	20	QPSK 50_0	26140/1860	1:1	0.613	0.325	0.11	18.65	19.50	1.216	0.745	21.9
Left cheek	20	QPSK 50_0	26590/1905	1:1	0.514	0.297	-0.10	18.52	19.50	1.253	0.644	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_50	26365/1882.5	1:1	0.268	0.158	-0.13	21.62	22.50	1.225	0.328	21.9
Back side	20	QPSK 1_50	26365/1882.5	1:1	0.419	0.212	-0.19	21.62	22.50	1.225	0.513	21.9
Right side	20	QPSK 1_50	26365/1882.5	1:1	0.358	0.184	0.18	21.62	22.50	1.225	0.439	21.9
Top side	20	QPSK 1_50	26365/1882.5	1:1	0.141	0.079	0.05	21.62	22.50	1.225	0.173	21.9
Back side	20	QPSK 1_50	26140/1860	1:1	0.458	0.231	-0.06	21.57	22.50	1.239	0.567	21.9
Back side	20	QPSK 1_50	26590/1905	1:1	0.432	0.213	0.09	21.56	22.50	1.242	0.537	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.260	0.151	-0.16	21.87	22.50	1.156	0.301	21.9
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.438	0.220	-0.12	21.87	22.50	1.156	0.506	21.9
Right side	20	QPSK 50_0	26365/1882.5	1:1	0.377	0.191	-0.14	21.87	22.50	1.156	0.436	21.9
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.149	0.082	0.19	21.87	22.50	1.156	0.172	21.9
Back side	20	QPSK 50_0	26140/1860	1:1	0.462	0.234	-0.16	21.79	22.50	1.178	0.544	21.9
Back side	20	QPSK 50_0	26590/1905	1:1	0.436	0.216	0.04	21.74	22.50	1.191	0.519	21.9
Ant 1 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) SET_1												
Left cheek	20	QPSK 1_99	26590/1905	1:1	0.028	0.010	0.12	19.02	19.50	1.117	0.031	21.8
Left tilted	20	QPSK 1_99	26590/1905	1:1	0.025	0.006	-0.13	19.02	19.50	1.117	0.028	21.8
Right cheek	20	QPSK 1_99	26590/1905	1:1	0.032	0.014	0.15	19.02	19.50	1.117	0.036	21.8
Right	20	QPSK 1_99	26590/1905	1:1	0.028	0.009	-0.11	19.02	19.50	1.117	0.031	21.8



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tilted												
Right cheek	20	QPSK 1_99	26140/1860	1:1	0.036	0.017	-0.19	18.68	19.50	1.208	0.043	21.8
Right cheek	20	QPSK 1_99	26365/1882.5	1:1	0.038	0.016	0.06	18.75	19.50	1.189	0.045	21.8
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_25	26590/1905	1:1	0.025	0.009	-0.17	19.02	19.50	1.117	0.028	21.8
Left tilted	20	QPSK 50_25	26590/1905	1:1	0.023	0.005	-0.07	19.02	19.50	1.117	0.026	21.8
Right cheek	20	QPSK 50_25	26590/1905	1:1	0.029	0.012	-0.10	19.02	19.50	1.117	0.032	21.8
Right tilted	20	QPSK 50_25	26590/1905	1:1	0.024	0.007	0.06	19.02	19.50	1.117	0.027	21.8
Right cheek	20	QPSK 50_25	26140/1860	1:1	0.031	0.014	0.13	18.72	19.50	1.197	0.037	21.8
Right cheek	20	QPSK 50_25	26365/1882.5	1:1	0.034	0.016	-0.13	18.82	19.50	1.169	0.040	21.8
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_99	26590/1905	1:1	0.120	0.069	0.12	19.02	19.50	1.117	0.134	21.8
Back side	20	QPSK 1_99	26590/1905	1:1	0.353	0.197	-0.18	19.02	19.50	1.117	0.394	21.8
Left side	20	QPSK 1_99	26590/1905	1:1	0.026	0.012	0.02	19.02	19.50	1.117	0.029	21.8
Right side	20	QPSK 1_99	26590/1905	1:1	0.057	0.032	-0.04	19.02	19.50	1.117	0.064	21.8
Bottom side	20	QPSK 1_99	26590/1905	1:1	0.304	0.172	-0.02	19.02	19.50	1.117	0.340	21.8
Back side	20	QPSK 1_99	26140/1860	1:1	0.361	0.187	0.07	18.68	19.50	1.208	0.436	21.8
Back side	20	QPSK 1_99	26365/1882.5	1:1	0.386	0.201	0.04	18.75	19.50	1.189	0.459	21.8
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_25	26590/1905	1:1	0.190	0.110	0.03	19.02	19.50	1.117	0.212	21.8
Back side	20	QPSK 50_25	26590/1905	1:1	0.396	0.211	0.14	19.02	19.50	1.117	0.442	21.8
Left side	20	QPSK 50_25	26590/1905	1:1	0.031	0.018	0.08	19.02	19.50	1.117	0.035	21.8
Right side	20	QPSK 50_25	26590/1905	1:1	0.101	0.054	0.00	19.02	19.50	1.117	0.113	21.8
Bottom side	20	QPSK 50_25	26590/1905	1:1	0.324	0.186	0.01	19.02	19.50	1.117	0.362	21.8
Back side	20	QPSK 50_25	26140/1860	1:1	0.394	0.207	0.02	18.68	19.50	1.208	0.476	21.8
Back side	20	QPSK 50_25	26365/1882.5	1:1	0.403	0.224	-0.08	18.75	19.50	1.189	0.479	21.8



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8.3.11 SAR Result of LTE Band 26

Ant 0 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) SET_1												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.293	0.175	0.01	23.51	24.00	1.119	0.328	21.9
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.295	0.160	0.16	23.51	24.00	1.119	0.330	21.9
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.373	0.207	0.04	23.51	24.00	1.119	0.417	21.9
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.342	0.186	0.09	23.51	24.00	1.119	0.383	21.9
Head Test Data (50%RB) SET_1												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.251	0.147	-0.19	22.55	23.00	1.109	0.278	21.9
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.236	0.129	-0.04	22.55	23.00	1.109	0.262	21.9
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.325	0.177	0.05	22.55	23.00	1.109	0.360	21.9
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.295	0.158	-0.04	22.55	23.00	1.109	0.327	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.231	0.134	0.07	23.51	24.00	1.119	0.258	21.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.391	0.222	0.16	23.51	24.00	1.119	0.438	21.9
Left side	15	QPSK 1_0	26865/831.5	1:1	0.159	0.104	-0.19	23.51	24.00	1.119	0.178	21.9
Right side	15	QPSK 1_0	26865/831.5	1:1	0.055	0.036	-0.15	23.51	24.00	1.119	0.062	21.9
Top side	15	QPSK 1_0	26865/831.5	1:1	0.332	0.170	-0.09	23.51	24.00	1.119	0.372	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.171	0.102	-0.12	22.55	23.00	1.109	0.190	21.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.254	0.147	-0.17	22.55	23.00	1.109	0.282	21.9
Left side	15	QPSK 36_0	26865/831.5	1:1	0.124	0.080	-0.15	22.55	23.00	1.109	0.138	21.9
Right side	15	QPSK 36_0	26865/831.5	1:1	0.044	0.028	-0.16	22.55	23.00	1.109	0.049	21.9
Top side	15	QPSK 36_0	26865/831.5	1:1	0.268	0.139	-0.19	22.55	23.00	1.109	0.297	21.9

8.3.12 SAR Result of LTE Band 30

Ant 6 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) SET_1												
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.174	0.107	0.10	20.27	21.00	1.183	0.206	22.1
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.139	0.075	-0.18	20.27	21.00	1.183	0.164	22.1
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.601	0.293	0.07	20.27	21.00	1.183	0.711	22.1
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.239	0.124	-0.15	20.27	21.00	1.183	0.283	22.1
Head Test Data (50%RB) SET_1												
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.169	0.105	0.12	20.22	21.00	1.197	0.202	22.1
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.137	0.073	-0.06	20.22	21.00	1.197	0.164	22.1
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.588	0.293	0.09	20.22	21.00	1.197	0.704	22.1
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.196	0.103	0.17	20.22	21.00	1.197	0.235	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	10	QPSK 1_0	27710/2310	1:1	0.284	0.170	0.04	21.25	22.00	1.189	0.338	22.1
Back side	10	QPSK 1_0	27710/2310	1:1	0.436	0.233	-0.15	21.25	22.00	1.189	0.518	22.1
Left side	10	QPSK 1_0	27710/2310	1:1	0.426	0.211	-0.06	21.25	22.00	1.189	0.507	22.1
Top side	10	QPSK 1_0	27710/2310	1:1	0.164	0.090	0.13	21.25	22.00	1.189	0.195	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	10	QPSK 25_0	27710/2310	1:1	0.279	0.164	-0.02	21.26	22.00	1.186	0.331	22.1
Back side	10	QPSK 25_0	27710/2310	1:1	0.443	0.221	0.05	21.26	22.00	1.186	0.525	22.1
Left side	10	QPSK 25_0	27710/2310	1:1	0.391	0.143	0.02	21.26	22.00	1.186	0.464	22.1
Top side	10	QPSK 25_0	27710/2310	1:1	0.164	0.090	-0.08	21.26	22.00	1.186	0.195	22.1

8.3.13 SAR Result of LTE Band 41(38)

Ant 4 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) SET_1												
Left cheek	20	QPSK 1_50	40620/2593	1:1.58	0.327	0.170	0.15	21.16	22.00	1.213	0.397	21.9
Left tilted	20	QPSK 1_50	40620/2593	1:1.58	0.131	0.073	-0.05	21.16	22.00	1.213	0.159	21.9
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.680	0.328	0.04	21.16	22.00	1.213	0.825	21.9
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.228	0.118	0.14	21.16	22.00	1.213	0.277	21.9
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.948	0.442	0.07	20.83	22.00	1.309	1.241	21.9
Right cheek	20	QPSK 1_50	40185/2549.5	1:1.58	0.844	0.394	-0.19	20.73	22.00	1.340	1.131	21.9
Right cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.767	0.350	0.01	20.93	22.00	1.279	0.981	21.9
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.667	0.305	0.08	20.87	22.00	1.297	0.865	21.9
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.363	0.186	-0.17	21.15	22.00	1.216	0.441	21.9
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.149	0.082	-0.03	21.15	22.00	1.216	0.181	21.9
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.893	0.404	-0.03	21.15	22.00	1.216	1.086	21.9
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.251	0.128	-0.18	21.15	22.00	1.216	0.305	21.9
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	1.040	0.478	0.03	21.09	22.00	1.233	1.282	21.9
Right cheek-Repeated	20	QPSK 50_0	39750/2506	1:1.58	0.958	0.446	0.16	21.09	22.00	1.233	1.181	21.9
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.821	0.381	-0.05	20.71	22.00	1.346	1.105	21.9
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.771	0.353	0.16	20.87	22.00	1.297	1.000	21.9
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.707	0.313	0.00	20.99	22.00	1.262	0.892	21.9
Right cheek-with PC2	20	QPSK 50_0	39750/2506	1:1.58	0.720	0.321	-0.02	21.11	22.00	1.227	0.883	21.9
Head Test Data (100%RB) SET_1												
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.798	0.377	-0.08	21.03	22.00	1.250	0.998	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.346	0.172	-0.17	20.17	21.00	1.211	0.419	21.9
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.459	0.218	-0.11	20.17	21.00	1.211	0.556	21.9
Left side	20	QPSK 1_50	40620/2593	1:1.58	0.403	0.203	0.04	20.17	21.00	1.211	0.488	21.9
Top side	20	QPSK 1_50	40620/2593	1:1.58	0.076	0.041	-0.02	20.17	21.00	1.211	0.092	21.9
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.569	0.270	0.15	19.82	21.00	1.312	0.747	21.9
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.499	0.236	0.15	20.00	21.00	1.259	0.628	21.9
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.413	0.192	0.09	20.11	21.00	1.227	0.507	21.9
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.359	0.166	0.17	19.93	21.00	1.279	0.459	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.314	0.148	-0.16	20.18	21.00	1.208	0.379	21.9
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.545	0.257	0.07	20.18	21.00	1.208	0.658	21.9
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.366	0.181	0.06	20.18	21.00	1.208	0.442	21.9
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.073	0.041	0.02	20.18	21.00	1.208	0.088	21.9
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.585	0.276	0.03	19.78	21.00	1.324	0.775	21.9
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.525	0.246	0.15	19.94	21.00	1.276	0.670	21.9
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.421	0.197	0.03	20.15	21.00	1.216	0.512	21.9
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.361	0.167	0.08	20.07	21.00	1.239	0.447	21.9
Back side-with PC2	20	QPSK 50_0	39750/2506	1:1.58	0.420	0.198	-0.01	19.89	21.00	1.291	0.542	21.9



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	39750/2506	1.040	0.958	1.086	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.						



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8.3.14 SAR Result of LTE Band 42(3450-3550)

Ant 2 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) SET 1												
Left cheek	20	QPSK 1 50	42590/3500	1:1.58	0.662	0.171	0.11	21.63	22.00	1.089	0.721	21.9
Left tilted	20	QPSK 1 50	42590/3500	1:1.58	0.194	0.089	0.18	21.63	22.00	1.089	0.211	21.9
Right cheek	20	QPSK 1 50	42590/3500	1:1.58	0.108	0.054	0.19	21.63	22.00	1.089	0.118	21.9
Right tilted	20	QPSK 1 50	42590/3500	1:1.58	0.108	0.051	-0.16	21.63	22.00	1.089	0.118	21.9
Left cheek	20	QPSK 1 50	42190/3460	1:1.58	0.693	0.236	0.03	21.54	22.00	1.112	0.771	21.9
Left cheek	20	QPSK 1 50	42990/3540	1:1.58	0.869	0.403	0.07	21.48	22.00	1.127	0.979	21.9
Left cheek-Repeated	20	QPSK 1 50	42990/3540	1:1.58	0.792	0.386	0.07	21.48	22.00	1.127	0.893	21.9
Head Test Data (50%RB) SET 1												
Left cheek	20	QPSK 50 0	42590/3500	1:1.58	0.606	0.148	-0.13	21.58	22.00	1.102	0.668	21.9
Left tilted	20	QPSK 50 0	42590/3500	1:1.58	0.198	0.092	-0.12	21.58	22.00	1.102	0.218	21.9
Right cheek	20	QPSK 50 0	42590/3500	1:1.58	0.123	0.064	0.16	21.58	22.00	1.102	0.136	21.9
Right tilted	20	QPSK 50 0	42590/3500	1:1.58	0.083	0.043	0.18	21.58	22.00	1.102	0.091	21.9
Left cheek	20	QPSK 50 0	42190/3460	1:1.58	0.789	0.234	-0.03	21.57	22.00	1.104	0.871	21.9
Left cheek	20	QPSK 50 0	42990/3540	1:1.58	0.831	0.369	0.04	21.54	22.00	1.112	0.924	21.9
Head Test Data (100%RB) SET 1												
Left cheek	20	QPSK 100 0	42590/3500	1:1.58	0.743	0.392	0.07	21.53	22.00	1.114	0.828	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	20	QPSK 1 50	42190/3460	1:1.58	0.125	0.058	-0.15	20.59	21.00	1.099	0.137	21.9
Back side	20	QPSK 1 50	42190/3460	1:1.58	0.147	0.065	0.03	20.59	21.00	1.099	0.162	21.9
Right side	20	QPSK 1 50	42190/3460	1:1.58	0.393	0.160	-0.03	20.59	21.00	1.099	0.432	21.9
Top side	20	QPSK 1 50	42190/3460	1:1.58	0.075	0.034	-0.13	20.59	21.00	1.099	0.082	21.9
Right side	20	QPSK 1 50	42590/3500	1:1.58	0.253	0.098	-0.18	20.55	21.00	1.109	0.281	21.9
Right side	20	QPSK 1 50	42990/3540	1:1.58	0.371	0.144	0.13	20.40	21.00	1.148	0.426	21.9
Back side	20	QPSK 1 50	42590/3500	1:1.58	0.183	0.082	0.14	20.55	21.00	1.109	0.203	21.9
Back side	20	QPSK 1 50	42990/3540	1:1.58	0.243	0.105	0.04	20.40	21.00	1.148	0.279	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	20	QPSK 50 0	42590/3500	1:1.58	0.168	0.077	0.13	20.68	21.00	1.076	0.181	21.9
Back side	20	QPSK 50 0	42590/3500	1:1.58	0.196	0.086	0.06	20.68	21.00	1.076	0.211	21.9
Right side	20	QPSK 50 0	42590/3500	1:1.58	0.300	0.117	-0.03	20.68	21.00	1.076	0.323	21.9
Top side	20	QPSK 50 0	42590/3500	1:1.58	0.092	0.044	-0.17	20.68	21.00	1.076	0.099	21.9
Right side	20	QPSK 50 0	42190/3460	1:1.58	0.396	0.159	0.18	20.62	21.00	1.091	0.432	21.9
Right side	20	QPSK 50 0	42990/3540	1:1.58	0.402	0.160	-0.06	20.43	21.00	1.140	0.458	21.9
Back side	20	QPSK 50 0	42190/3460	1:1.58	0.144	0.064	-0.16	20.62	21.00	1.091	0.157	21.9
Back side	20	QPSK 50 0	42990/3540	1:1.58	0.228	0.101	-0.04	20.43	21.00	1.140	0.260	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	42990/3540	0.869	0.792	1.097	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.

8.3.15 SAR Result of LTE Band 66(4)

Ant 2 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) SET_1												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.490	0.268	0.06	18.65	19.50	1.216	0.596	21.9
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.193	0.106	-0.02	18.65	19.50	1.216	0.235	21.9
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.205	0.132	0.00	18.65	19.50	1.216	0.249	21.9
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.162	0.096	-0.08	18.65	19.50	1.216	0.197	21.9
Left cheek	20	QPSK 1_50	132072/1720	1:1	0.442	0.245	-0.19	18.58	19.50	1.236	0.546	21.9
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.535	0.293	0.05	18.50	19.50	1.259	0.674	21.9
Left cheek	20	QPSK PCC 1_0	132322/1745	1:1	0.458	0.246	-0.01	19.03	19.50	1.114	0.510	21.9
		QPSK SCC 1_99	132124/1725.2									
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.487	0.268	0.06	18.74	19.50	1.191	0.580	21.9
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.198	0.108	0.15	18.74	19.50	1.191	0.236	21.9
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.197	0.127	0.10	18.74	19.50	1.191	0.235	21.9
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.163	0.097	-0.18	18.74	19.50	1.191	0.194	21.9
Left cheek	20	QPSK 50_0	132072/1720	1:1	0.426	0.237	-0.16	18.66	19.50	1.213	0.517	21.9
Left cheek	20	QPSK 50_0	132572/1770	1:1	0.544	0.299	0.06	18.72	19.50	1.197	0.651	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_50	132322/1745	1:1	0.359	0.214	0.19	21.36	22.50	1.300	0.467	21.9
Back side	20	QPSK 1_50	132322/1745	1:1	0.402	0.230	0.10	21.36	22.50	1.300	0.523	21.9
Right side	20	QPSK 1_50	132322/1745	1:1	0.377	0.209	0.08	21.36	22.50	1.300	0.490	21.9
Top side	20	QPSK 1_50	132322/1745	1:1	0.164	0.095	0.02	21.36	22.50	1.300	0.213	21.9
Back side	20	QPSK 1_50	132072/1720	1:1	0.341	0.196	0.14	21.32	22.50	1.312	0.447	21.9
Back side	20	QPSK 1_50	132572/1770	1:1	0.421	0.218	0.04	21.28	22.50	1.324	0.557	21.9
Back side	20	QPSK PCC 1_99	132072/1720	1:1	0.367	0.176	-0.09	22.03	22.50	1.114	0.409	21.9
		QPSK SCC 1_0	132270/1739.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_0	132322/1745	1:1	0.386	0.223	-0.12	21.45	22.50	1.274	0.492	21.9
Back side	20	QPSK 50_0	132322/1745	1:1	0.392	0.229	-0.04	21.45	22.50	1.274	0.499	21.9
Right side	20	QPSK 50_0	132322/1745	1:1	0.281	0.163	0.11	21.45	22.50	1.274	0.358	21.9
Top side	20	QPSK 50_0	132322/1745	1:1	0.153	0.091	-0.19	21.45	22.50	1.274	0.195	21.9
Back side	20	QPSK 50_0	132072/1720	1:1	0.336	0.206	0.08	21.40	22.50	1.288	0.433	21.9
Back side	20	QPSK 50_0	132572/1770	1:1	0.401	0.234	0.11	21.28	22.50	1.324	0.531	21.9
Ant 1 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) SET_1												
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.026	0.007	0.10	17.95	18.00	1.012	0.026	21.9
Left tilted	20	QPSK 1_50	132572/1770	1:1	0.023	0.005	-0.14	17.95	18.00	1.012	0.023	21.9
Right cheek	20	QPSK 1_50	132572/1770	1:1	0.034	0.009	0.04	17.95	18.00	1.012	0.034	21.9
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.027	0.007	0.19	17.95	18.00	1.012	0.027	21.9
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.030	0.007	0.00	17.23	18.00	1.194	0.036	21.9
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.032	0.008	0.11	17.84	18.00	1.038	0.033	21.9



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Head Test Data (50%RB) SET 1												
Left cheek	20	QPSK 50 50	132322/1745	1:1	0.029	0.008	-0.11	17.59	18.00	1.099	0.032	21.9
Left tilted	20	QPSK 50 50	132322/1745	1:1	0.027	0.006	-0.19	17.59	18.00	1.099	0.030	21.9
Right cheek	20	QPSK 50 50	132322/1745	1:1	0.035	0.010	-0.02	17.59	18.00	1.099	0.038	21.9
Right tilted	20	QPSK 50 50	132322/1745	1:1	0.028	0.008	0.08	17.59	18.00	1.099	0.031	21.9
Right cheek	20	QPSK 50 25	132072/1720	1:1	0.029	0.008	-0.04	17.19	18.00	1.205	0.035	21.9
Right cheek	20	QPSK 50 50	132572/1770	1:1	0.026	0.007	-0.11	17.57	18.00	1.104	0.029	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	20	QPSK 1 50	132572/1770	1:1	0.058	0.034	0.14	17.95	18.00	1.012	0.059	21.9
Back side	20	QPSK 1 50	132572/1770	1:1	0.160	0.096	0.01	17.95	18.00	1.012	0.162	21.9
Left side	20	QPSK 1 50	132572/1770	1:1	0.024	0.006	-0.08	17.95	18.00	1.012	0.024	21.9
Right side	20	QPSK 1 50	132572/1770	1:1	0.028	0.007	-0.02	17.95	18.00	1.012	0.028	21.9
Bottom side	20	QPSK 1 50	132572/1770	1:1	0.153	0.089	-0.02	17.95	18.00	1.012	0.155	21.9
Back side	20	QPSK 1 0	132072/1720	1:1	0.199	0.115	-0.05	17.23	18.00	1.194	0.238	21.9
Back side	20	QPSK 1 99	132322/1745	1:1	0.172	0.100	0.04	17.84	18.00	1.038	0.179	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	20	QPSK 50 50	132322/1745	1:1	0.068	0.039	-0.11	17.59	18.00	1.099	0.075	21.9
Back side	20	QPSK 50 50	132322/1745	1:1	0.183	0.098	0.06	17.59	18.00	1.099	0.201	21.9
Left side	20	QPSK 50 50	132322/1745	1:1	0.029	0.008	-0.10	17.59	18.00	1.099	0.032	21.9
Right side	20	QPSK 50 50	132322/1745	1:1	0.025	0.006	-0.05	17.59	18.00	1.099	0.027	21.9
Bottom side	20	QPSK 50 50	132322/1745	1:1	0.178	0.101	-0.18	17.59	18.00	1.099	0.196	21.9
Back side	20	QPSK 50 25	132072/1720	1:1	0.198	0.115	-0.19	17.19	18.00	1.205	0.239	21.9
Back side	20	QPSK 50 50	132572/1770	1:1	0.157	0.094	0.16	17.57	18.00	1.104	0.173	21.9



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8.3.16 SAR Result of LTE Band 71

Ant 0 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) SET_1												
Left cheek	20	QPSK 1_50	133322/683	1:1	0.380	0.283	-0.18	23.51	24.00	1.119	0.425	21.9
Left tilted	20	QPSK 1_50	133322/683	1:1	0.314	0.227	-0.14	23.51	24.00	1.119	0.351	21.9
Right cheek	20	QPSK 1_50	133322/683	1:1	0.557	0.369	0.00	23.51	24.00	1.119	0.623	21.9
Right tilted	20	QPSK 1_50	133322/683	1:1	0.421	0.236	0.11	23.51	24.00	1.119	0.471	21.9
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_0	133322/683	1:1	0.298	0.221	-0.03	22.67	23.00	1.079	0.322	21.9
Left tilted	20	QPSK 50_0	133322/683	1:1	0.291	0.196	-0.02	22.67	23.00	1.079	0.314	21.9
Right cheek	20	QPSK 50_0	133322/683	1:1	0.468	0.291	0.03	22.67	23.00	1.079	0.505	21.9
Right tilted	20	QPSK 50_0	133322/683	1:1	0.359	0.234	-0.02	22.67	23.00	1.079	0.387	21.9
Head Evaluate Data (1RB) SET_1 with ENDC												
Left cheek	20	QPSK 1_50	133322/683	1:1	0.380	0.283	-0.18	23.51	21.00	0.561	0.213	21.9
Left tilted	20	QPSK 1_50	133322/683	1:1	0.314	0.227	-0.14	23.51	21.00	0.561	0.176	21.9
Right cheek	20	QPSK 1_50	133322/683	1:1	0.557	0.369	0.00	23.51	21.00	0.561	0.312	21.9
Right tilted	20	QPSK 1_50	133322/683	1:1	0.421	0.236	0.11	23.51	21.00	0.561	0.236	21.9
Head Evaluate Data (50%RB) SET_1 with ENDC												
Left cheek	20	QPSK 50_0	133322/683	1:1	0.298	0.221	-0.03	22.67	21.00	0.681	0.203	21.9
Left tilted	20	QPSK 50_0	133322/683	1:1	0.291	0.196	-0.02	22.67	21.00	0.681	0.198	21.9
Right cheek	20	QPSK 50_0	133322/683	1:1	0.468	0.291	0.03	22.67	21.00	0.681	0.319	21.9
Right tilted	20	QPSK 50_0	133322/683	1:1	0.359	0.234	-0.02	22.67	21.00	0.681	0.244	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_50	133322/683	1:1	0.205	0.128	-0.08	23.51	24.00	1.119	0.229	21.9
Back side	20	QPSK 1_50	133322/683	1:1	0.366	0.212	-0.07	23.51	24.00	1.119	0.410	21.9
Left side	20	QPSK 1_50	133322/683	1:1	0.296	0.199	0.08	23.51	24.00	1.119	0.331	21.9
Right side	20	QPSK 1_50	133322/683	1:1	0.142	0.093	0.17	23.51	24.00	1.119	0.159	21.9
Top side	20	QPSK 1_50	133322/683	1:1	0.304	0.158	0.14	23.51	24.00	1.119	0.340	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_0	133322/683	1:1	0.163	0.102	-0.05	22.67	23.00	1.079	0.176	21.9
Back side	20	QPSK 50_0	133322/683	1:1	0.266	0.153	-0.16	22.67	23.00	1.079	0.287	21.9
Left side	20	QPSK 50_0	133322/683	1:1	0.234	0.154	0.02	22.67	23.00	1.079	0.252	21.9
Right side	20	QPSK 50_0	133322/683	1:1	0.105	0.071	0.15	22.67	23.00	1.079	0.113	21.9
Top side	20	QPSK 50_0	133322/683	1:1	0.259	0.129	-0.16	22.67	23.00	1.079	0.279	21.9



8.3.17 SAR Result of NR Band n2

Ant2 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) SET 1												
Left cheek	20	QPSK 1_53	376000/1880	100%	0.612	0.347	0.06	19.23	19.50	1.064	0.651	22.1
Left tilted	20	QPSK 1_53	376000/1880	100%	0.254	0.143	-0.05	19.23	19.50	1.064	0.270	22.1
Right cheek	20	QPSK 1_53	376000/1880	100%	0.247	0.164	-0.19	19.23	19.50	1.064	0.263	22.1
Right tilted	20	QPSK 1_53	376000/1880	100%	0.195	0.121	-0.05	19.23	19.50	1.064	0.207	22.1
Left cheek	20	QPSK 1_53	372000/1860	100%	0.611	0.347	-0.16	19.14	19.50	1.086	0.664	22.1
Left cheek	20	QPSK 1_53	380000/1900	100%	0.616	0.351	0.13	19.16	19.50	1.081	0.666	22.1
Head Test Data (50%RB) SET 1												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.610	0.346	-0.03	19.28	19.50	1.052	0.642	22.1
Left tilted	20	QPSK 50_28	376000/1880	100%	0.255	0.143	-0.14	19.28	19.50	1.052	0.268	22.1
Right cheek	20	QPSK 50_28	376000/1880	100%	0.238	0.160	-0.11	19.28	19.50	1.052	0.250	22.1
Right tilted	20	QPSK 50_28	376000/1880	100%	0.193	0.120	0.11	19.28	19.50	1.052	0.203	22.1
Left cheek	20	QPSK 50_28	372000/1860	100%	0.614	0.349	0.15	19.11	19.50	1.094	0.672	22.1
Left cheek	20	QPSK 50_28	380000/1900	100%	0.648	0.347	0.03	19.24	19.50	1.062	0.688	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	20	QPSK 1_53	376000/1880	100%	0.204	0.123	0.02	22.29	22.50	1.050	0.214	22.1
Back side	20	QPSK 1_53	376000/1880	100%	0.294	0.158	0.00	22.29	22.50	1.050	0.309	22.1
Right side	20	QPSK 1_53	376000/1880	100%	0.250	0.133	-0.15	22.29	22.50	1.050	0.263	22.1
Top side	20	QPSK 1_53	376000/1880	100%	0.146	0.082	0.05	22.29	22.50	1.050	0.153	22.1
Back side	20	QPSK 1_53	372000/1860	100%	0.341	0.183	0.06	22.07	22.50	1.104	0.376	22.1
Back side	20	QPSK 1_53	380000/1900	100%	0.397	0.206	-0.06	22.19	22.50	1.074	0.426	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	20	QPSK 50_28	380000/1900	100%	0.222	0.129	0.05	22.30	22.50	1.047	0.232	22.1
Back side	20	QPSK 50_28	380000/1900	100%	0.365	0.192	-0.03	22.30	22.50	1.047	0.382	22.1
Right side	20	QPSK 50_28	380000/1900	100%	0.259	0.139	-0.05	22.30	22.50	1.047	0.271	22.1
Top side	20	QPSK 50_28	380000/1900	100%	0.149	0.084	0.13	22.30	22.50	1.047	0.156	22.1
Back side	20	QPSK 50_28	372000/1860	100%	0.345	0.184	-0.14	22.01	22.50	1.119	0.386	22.1
Back side	20	QPSK 50_28	376000/1880	100%	0.404	0.209	-0.04	22.03	22.50	1.114	0.450	22.1
Ant1 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) SET 1												
Left cheek	20	QPSK 1_1	376000/1880	100%	0.038	0.013	-0.02	19.01	19.50	1.119	0.043	22.1
Left tilted	20	QPSK 1_1	376000/1880	100%	0.028	0.012	-0.11	19.01	19.50	1.119	0.031	22.1
Right cheek	20	QPSK 1_1	376000/1880	100%	0.042	0.021	-0.12	19.01	19.50	1.119	0.047	22.1
Right tilted	20	QPSK 1_1	376000/1880	100%	0.032	0.011	-0.09	19.01	19.50	1.119	0.036	22.1



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Right cheek	20	QPSK 1_1	372000/1860	100%	0.039	0.018	0.02	18.92	19.50	1.143	0.045	22.1
Right cheek	20	QPSK 1_1	380000/1900	100%	0.040	0.019	0.10	18.90	19.50	1.148	0.046	22.1
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.028	0.009	0.18	18.81	19.50	1.172	0.033	22.1
Left tilted	20	QPSK 50_28	376000/1880	100%	0.025	0.006	-0.05	18.81	19.50	1.172	0.029	22.1
Right cheek	20	QPSK 50_28	376000/1880	100%	0.038	0.015	0.10	18.81	19.50	1.172	0.045	22.1
Right tilted	20	QPSK 50_28	376000/1880	100%	0.027	0.011	0.17	18.81	19.50	1.172	0.032	22.1
Right cheek	20	QPSK 50_28	372000/1860	100%	0.035	0.012	-0.07	18.79	19.50	1.178	0.041	22.1
Right cheek	20	QPSK 50_28	380000/1900	100%	0.036	0.014	-0.09	18.76	19.50	1.186	0.043	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_1	376000/1880	100%	0.104	0.060	0.02	19.01	19.50	1.119	0.116	22.1
Back side	20	QPSK 1_1	376000/1880	100%	0.226	0.126	0.18	19.01	19.50	1.119	0.253	22.1
Left side	20	QPSK 1_1	376000/1880	100%	0.041	0.017	-0.09	19.01	19.50	1.119	0.046	22.1
Right side	20	QPSK 1_1	376000/1880	100%	0.056	0.025	-0.04	19.01	19.50	1.119	0.063	22.1
Bottom side	20	QPSK 1_1	376000/1880	100%	0.234	0.127	-0.14	19.01	19.50	1.119	0.262	22.1
Bottom side	20	QPSK 1_1	372000/1860	100%	0.215	0.113	0.18	18.92	19.50	1.143	0.246	22.1
Bottom side	20	QPSK 1_1	380000/1900	100%	0.241	0.134	-0.12	18.90	19.50	1.148	0.277	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_28	376000/1880	100%	0.108	0.063	-0.08	18.81	19.50	1.172	0.127	22.1
Back side	20	QPSK 50_28	376000/1880	100%	0.230	0.128	0.04	18.81	19.50	1.172	0.270	22.1
Left side	20	QPSK 50_28	376000/1880	100%	0.044	0.012	-0.13	18.81	19.50	1.172	0.052	22.1
Right side	20	QPSK 50_28	376000/1880	100%	0.048	0.024	0.13	18.81	19.50	1.172	0.056	22.1
Bottom side	20	QPSK 50_28	376000/1880	100%	0.259	0.142	0.06	18.81	19.50	1.172	0.304	22.1
Bottom side	20	QPSK 50_28	372000/1860	100%	0.224	0.121	-0.18	18.79	19.50	1.178	0.264	22.1
Bottom side	20	QPSK 50_28	380000/1900	100%	0.253	0.135	0.17	18.76	19.50	1.186	0.300	22.1



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8.3.18 SAR Result of NR Band n5

Ant0 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) SET_1												
Left cheek	20	QPSK 1_1	167300/836.5	100%	0.500	0.368	0.16	24.23	25.00	1.194	0.597	22.1
Left tilted	20	QPSK 1_1	167300/836.5	100%	0.432	0.298	0.04	24.23	25.00	1.194	0.516	22.1
Right cheek	20	QPSK 1_1	167300/836.5	100%	0.965	0.577	0.03	24.23	25.00	1.194	1.152	22.1
Right tilted	20	QPSK 1_1	167300/836.5	100%	0.668	0.397	-0.08	24.23	25.00	1.194	0.798	22.1
Right cheek-Repeated	20	QPSK 1_1	167300/836.5	100%	0.907	0.559	-0.04	24.23	25.00	1.194	1.083	22.1
Head Test Data (50%RB) SET_1												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.339	0.229	-0.04	23.96	25.00	1.271	0.431	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.315	0.195	0.18	23.96	25.00	1.271	0.400	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.569	0.345	-0.08	23.96	25.00	1.271	0.723	22.1
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.506	0.280	-0.08	23.96	25.00	1.271	0.643	22.1
Head Test Data (100%RB) SET_1												
Right cheek	20	QPSK 100_0	167300/836.5	100%	0.768	0.542	0.12	23.09	24.00	1.233	0.947	22.1
Head Evaluate Data (1RB) SET_1 with ENDC												
Left cheek	20	QPSK 1_1	167300/836.5	100%	0.500	0.368	0.16	24.23	22.00	0.598	0.299	22.1
Left tilted	20	QPSK 1_1	167300/836.5	100%	0.432	0.298	0.04	24.23	22.00	0.598	0.258	22.1
Right cheek	20	QPSK 1_1	167300/836.5	100%	0.965	0.577	0.03	24.23	22.00	0.598	0.577	22.1
Right tilted	20	QPSK 1_1	167300/836.5	100%	0.668	0.397	-0.08	24.23	22.00	0.598	0.399	22.1
Right cheek-Repeated	20	QPSK 1_1	167300/836.5	100%	0.907	0.559	-0.04	24.23	22.00	0.598	0.542	22.1
Head Test Data (50%RB) SET_1 with ENDC												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.339	0.229	-0.04	23.96	22.00	0.637	0.216	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.315	0.195	0.18	23.96	22.00	0.637	0.201	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.569	0.345	-0.08	23.96	22.00	0.637	0.362	22.1
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.506	0.280	-0.08	23.96	22.00	0.637	0.322	22.1
Head Test Data (100%RB) SET_1 with ENDC												
Right cheek	20	QPSK 100_0	167300/836.5	100%	0.768	0.542	0.12	23.09	21.00	0.618	0.475	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	20	QPSK 1_1	167300/836.5	100%	0.491	0.291	0.07	24.23	25.00	1.194	0.586	22.1
Back side	20	QPSK 1_1	167300/836.5	100%	0.526	0.317	-0.03	24.23	25.00	1.194	0.628	22.1
Left side	20	QPSK 1_1	167300/836.5	100%	0.373	0.244	0.00	24.23	25.00	1.194	0.445	22.1
Right side	20	QPSK 1_1	167300/836.5	100%	0.126	0.082	0.05	24.23	25.00	1.194	0.150	22.1
Top side	20	QPSK 1_1	167300/836.5	100%	0.573	0.298	-0.06	24.23	25.00	1.194	0.684	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	20	QPSK 50_28	167300/836.5	100%	0.460	0.277	0.18	23.96	25.00	1.271	0.585	22.1
Back side	20	QPSK 50_28	167300/836.5	100%	0.586	0.350	-0.12	23.96	25.00	1.271	0.745	22.1



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Left side	20	QPSK 50_28	167300/836.5	100%	0.361	0.234	-0.15	23.96	25.00	1.271	0.459	22.1
Right side	20	QPSK 50_28	167300/836.5	100%	0.116	0.076	0.04	23.96	25.00	1.271	0.147	22.1
Top side	20	QPSK 50_28	167300/836.5	100%	0.543	0.285	-0.08	23.96	25.00	1.271	0.690	22.1
Body worn&Hotspot Evaluate data (Separate 10mm 1RB) SET 2 with ENDC												
Front side	20	QPSK 1_1	167300/836.5	100%	0.491	0.291	0.07	24.23	22.00	0.598	0.294	22.1
Back side	20	QPSK 1_1	167300/836.5	100%	0.526	0.317	-0.03	24.23	22.00	0.598	0.315	22.1
Left side	20	QPSK 1_1	167300/836.5	100%	0.373	0.244	0.00	24.23	22.00	0.598	0.223	22.1
Right side	20	QPSK 1_1	167300/836.5	100%	0.126	0.082	0.05	24.23	22.00	0.598	0.075	22.1
Top side	20	QPSK 1_1	167300/836.5	100%	0.573	0.298	-0.06	24.23	22.00	0.598	0.343	22.1
Body worn&Hotspot Evaluate data (Separate 10mm 50%RB) SET 2 with ENDC												
Front side	20	QPSK 50_28	167300/836.5	100%	0.460	0.277	0.18	23.96	22.00	0.637	0.293	22.1
Back side	20	QPSK 50_28	167300/836.5	100%	0.586	0.350	-0.12	23.96	22.00	0.637	0.373	22.1
Left side	20	QPSK 50_28	167300/836.5	100%	0.361	0.234	-0.15	23.96	22.00	0.637	0.230	22.1
Right side	20	QPSK 50_28	167300/836.5	100%	0.116	0.076	0.04	23.96	22.00	0.637	0.074	22.1
Top side	20	QPSK 50_28	167300/836.5	100%	0.543	0.285	-0.08	23.96	22.00	0.637	0.346	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	167300/836.5	0.965	0.907	1.064	N/A	N/A

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

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

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

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

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.19 SAR Result of NR Band n7

Ant4 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) SET 1												
Left cheek	40	QPSK 1_108	507000/2535	100%	0.363	0.202	-0.15	19.16	20.00	1.213	0.440	22
Left tilted	40	QPSK 1_108	507000/2535	100%	0.161	0.086	-0.16	19.16	20.00	1.213	0.195	22
Right cheek	40	QPSK 1_108	507000/2535	100%	0.906	0.418	0.04	19.16	20.00	1.213	1.099	22
Right tilted	40	QPSK 1_108	507000/2535	100%	0.283	0.148	-0.01	19.16	20.00	1.213	0.343	22
Right cheek-Repeated	40	QPSK 1_108	507000/2535	100%	0.834	0.375	0.02	19.16	20.00	1.213	1.012	22
Head Test Data (50%RB) SET 1												
Left cheek	40	QPSK 108_54	507000/2535	100%	0.336	0.190	0.03	19.16	20.00	1.213	0.408	22
Left tilted	40	QPSK 108_54	507000/2535	100%	0.158	0.084	-0.02	19.16	20.00	1.213	0.192	22
Right cheek	40	QPSK 108_54	507000/2535	100%	0.837	0.413	-0.02	19.16	20.00	1.213	1.015	22
Right tilted	40	QPSK 108_54	507000/2535	100%	0.274	0.136	0.18	19.16	20.00	1.213	0.332	22
Head Test Data (100%RB) SET 1												
Right cheek	40	QPSK 216_0	507000/2535	100%	0.795	0.367	0.06	18.05	19.00	1.245	0.990	22
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	40	QPSK 1_108	507000/2535	100%	0.266	0.138	0.01	18.16	19.00	1.213	0.323	22
Back side	40	QPSK 1_108	507000/2535	100%	0.530	0.250	0.04	18.16	19.00	1.213	0.643	22
Left side	40	QPSK 1_108	507000/2535	100%	0.336	0.170	0.18	18.16	19.00	1.213	0.408	22
Top side	40	QPSK 1_108	507000/2535	100%	0.064	0.036	-0.15	18.16	19.00	1.213	0.078	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	40	QPSK 108_54	507000/2535	100%	0.250	0.131	0.18	17.97	19.00	1.268	0.317	22
Back side	40	QPSK 108_54	507000/2535	100%	0.454	0.222	0.15	17.97	19.00	1.268	0.576	22
Left side	40	QPSK 108_54	507000/2535	100%	0.298	0.132	0.16	17.97	19.00	1.268	0.378	22
Top side	40	QPSK 108_54	507000/2535	100%	0.060	0.034	-0.16	17.97	19.00	1.268	0.076	22

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	507000/2535	0.906	0.834	1.086	N/A	N/A

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

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

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

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

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.20 SAR Result of NR Band n25

Ant2 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) SET_1												
Left cheek	40	QPSK 1_108	376500/1882.5	100%	0.631	0.335	0.01	19.22	19.50	1.067	0.673	22.1
Left tilted	40	QPSK 1_108	376500/1882.5	100%	0.264	0.149	-0.12	19.22	19.50	1.067	0.282	22.1
Right cheek	40	QPSK 1_108	376500/1882.5	100%	0.313	0.202	-0.13	19.22	19.50	1.067	0.334	22.1
Right tilted	40	QPSK 1_108	376500/1882.5	100%	0.215	0.131	-0.11	19.22	19.50	1.067	0.229	22.1
Head Test Data (50%RB) SET_1												
Left cheek	40	QPSK 108_54	376500/1882.5	100%	0.660	0.350	0.10	19.21	19.50	1.069	0.706	22.1
Left tilted	40	QPSK 108_54	376500/1882.5	100%	0.271	0.154	0.00	19.21	19.50	1.069	0.290	22.1
Right cheek	40	QPSK 108_54	376500/1882.5	100%	0.275	0.182	-0.05	19.21	19.50	1.069	0.294	22.1
Right tilted	40	QPSK 108_54	376500/1882.5	100%	0.205	0.126	-0.14	19.21	19.50	1.069	0.219	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	40	QPSK 1_108	376500/1882.5	100%	0.359	0.201	0.19	22.25	22.50	1.059	0.380	22.1
Back side	40	QPSK 1_108	376500/1882.5	100%	0.415	0.210	0.11	22.25	22.50	1.059	0.439	22.1
Right side	40	QPSK 1_108	376500/1882.5	100%	0.405	0.198	-0.06	22.25	22.50	1.059	0.429	22.1
Top side	40	QPSK 1_108	376500/1882.5	100%	0.175	0.099	-0.11	22.25	22.50	1.059	0.185	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	40	QPSK 108_54	376500/1882.5	100%	0.349	0.187	-0.10	22.22	22.50	1.067	0.372	22.1
Back side	40	QPSK 108_54	376500/1882.5	100%	0.388	0.200	-0.04	22.22	22.50	1.067	0.414	22.1
Right side	40	QPSK 108_54	376500/1882.5	100%	0.371	0.194	0.05	22.22	22.50	1.067	0.396	22.1
Top side	40	QPSK 108_54	376500/1882.5	100%	0.168	0.094	-0.11	22.22	22.50	1.067	0.179	22.1



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8.3.21 SAR Result of NR Band n41(n38)

Ant4 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) SET_1												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.397	0.222	-0.13	21.56	22.00	1.107	0.439	22.2
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.270	0.138	-0.06	21.56	22.00	1.107	0.299	22.2
Right cheek	100	QPSK 1_137	518598/2592.99	100%	1.050	0.514	-0.12	21.56	22.00	1.107	1.162	22.2
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.343	0.179	0.01	21.56	22.00	1.107	0.380	22.2
Head Test Data (50%RB) SET_1												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.461	0.258	-0.17	21.65	22.00	1.084	0.500	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.304	0.156	-0.16	21.65	22.00	1.084	0.330	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	1.160	0.528	0.16	21.65	22.00	1.084	1.257	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.361	0.190	-0.12	21.65	22.00	1.084	0.391	22.2
Right cheek-Repeated	100	QPSK 135_69	518598/2592.99	100%	1.084	0.511	-0.05	21.65	22.00	1.084	1.175	22.2
Head Test Data (100%RB) SET_1												
Right cheek	100	QPSK 270_0	518598/2592.99	100%	0.813	0.495	-0.15	20.46	21.00	1.132	0.920	22.2
Head Evaluate Data (1RB) SET_1 with ENDC												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.397	0.222	-0.13	21.56	20.00	0.698	0.277	22.2
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.270	0.138	-0.06	21.56	20.00	0.698	0.188	22.2
Right cheek	100	QPSK 1_137	518598/2592.99	100%	1.050	0.514	-0.12	21.56	20.00	0.698	0.733	22.2
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.343	0.179	0.01	21.56	20.00	0.698	0.239	22.2
Head Evaluate Data (50%RB) SET_1 with ENDC												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.461	0.258	-0.17	21.65	20.00	0.684	0.315	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.304	0.156	-0.16	21.65	20.00	0.684	0.208	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	1.160	0.528	0.16	21.65	20.00	0.684	0.793	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.361	0.190	-0.12	21.65	20.00	0.684	0.247	22.2
Right cheek-Repeated	100	QPSK 135_69	518598/2592.99	100%	1.084	0.511	-0.05	21.65	20.00	0.684	0.741	22.2
Head Evaluate Data (100%RB) SET_1 with ENDC												
Right cheek	100	QPSK 270_0	518598/2592.99	100%	0.813	0.495	-0.15	20.46	19.00	0.714	0.580	22.2
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.348	0.177	-0.03	20.36	21.00	1.159	0.403	22.2



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Back side	100	QPSK 1_271	518598/2592.99	100%	0.523	0.248	0.14	20.36	21.00	1.159	0.606	22.2
Left side	100	QPSK 1_271	518598/2592.99	100%	0.453	0.230	0.11	20.36	21.00	1.159	0.525	22.2
Top side	100	QPSK 1_271	518598/2592.99	100%	0.095	0.051	0.01	20.36	21.00	1.159	0.110	22.2
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.403	0.207	0.12	20.42	21.00	1.143	0.461	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.622	0.297	0.16	20.42	21.00	1.143	0.711	22.2
Left side	100	QPSK 135_69	518598/2592.99	100%	0.524	0.262	0.17	20.42	21.00	1.143	0.599	22.2
Top side	100	QPSK 135_69	518598/2592.99	100%	0.103	0.052	0.07	20.42	21.00	1.143	0.118	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	518598/2592.99	1.160	1.084	1.070	N/A	N/A

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

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

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

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

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.22 SAR Result of NR Band n66

Ant2 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) SET_1												
Left cheek	40	QPSK 1_1	349000/1745	100%	0.598	0.349	0.09	19.75	20.50	1.189	0.711	22
Left tilted	40	QPSK 1_1	349000/1745	100%	0.265	0.152	0.08	19.75	20.50	1.189	0.315	22
Right cheek	40	QPSK 1_1	349000/1745	100%	0.306	0.204	0.13	19.75	20.50	1.189	0.364	22
Right tilted	40	QPSK 1_1	349000/1745	100%	0.228	0.142	-0.13	19.75	20.50	1.189	0.271	22
Head Test Data (50%RB) SET_1												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.664	0.367	0.13	19.81	20.50	1.172	0.778	22
Left tilted	40	QPSK 108_54	349000/1745	100%	0.288	0.165	-0.02	19.81	20.50	1.172	0.338	22
Right cheek	40	QPSK 108_54	349000/1745	100%	0.285	0.192	0.06	19.81	20.50	1.172	0.334	22
Right tilted	40	QPSK 108_54	349000/1745	100%	0.235	0.146	0.06	19.81	20.50	1.172	0.275	22
Head Evaluate Data (1RB) SET_1 with ENDC												
Left cheek	40	QPSK 1_1	349000/1745	100%	0.598	0.349	0.09	19.75	17.50	0.596	0.356	22
Left tilted	40	QPSK 1_1	349000/1745	100%	0.265	0.152	0.08	19.75	17.50	0.596	0.158	22
Right cheek	40	QPSK 1_1	349000/1745	100%	0.306	0.204	0.13	19.75	17.50	0.596	0.182	22
Right tilted	40	QPSK 1_1	349000/1745	100%	0.228	0.142	-0.13	19.75	17.50	0.596	0.136	22
Head Test Data (50%RB) SET_1 with ENDC												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.664	0.367	0.13	19.81	17.50	0.587	0.390	22
Left tilted	40	QPSK 108_54	349000/1745	100%	0.288	0.165	-0.02	19.81	17.50	0.587	0.169	22
Right cheek	40	QPSK 108_54	349000/1745	100%	0.285	0.192	0.06	19.81	17.50	0.587	0.167	22
Right tilted	40	QPSK 108_54	349000/1745	100%	0.235	0.146	0.06	19.81	17.50	0.587	0.138	22
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	40	QPSK 1_1	349000/1745	100%	0.404	0.232	-0.05	21.75	22.50	1.189	0.480	22
Back side	40	QPSK 1_1	349000/1745	100%	0.437	0.262	-0.01	21.75	22.50	1.189	0.520	22
Right side	40	QPSK 1_1	349000/1745	100%	0.415	0.226	-0.09	21.75	22.50	1.189	0.493	22
Top side	40	QPSK 1_1	349000/1745	100%	0.189	0.109	-0.05	21.75	22.50	1.189	0.225	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	40	QPSK 108_54	349000/1745	100%	0.299	0.190	0.01	21.72	22.50	1.197	0.358	22
Back side	40	QPSK 108_54	349000/1745	100%	0.448	0.238	0.08	21.72	22.50	1.197	0.536	22
Right side	40	QPSK 108_54	349000/1745	100%	0.416	0.231	-0.11	21.72	22.50	1.197	0.498	22
Top side	40	QPSK 108_54	349000/1745	100%	0.211	0.123	0.07	21.72	22.50	1.197	0.253	22
Ant1 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) SET_1												
Left cheek	40	QPSK 1_214	349000/1745	100%	0.032	0.011	-0.04	17.76	19.50	1.493	0.048	22



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Left tilted	40	QPSK 1_214	349000/1745	100%	0.026	0.008	0.03	17.76	19.50	1.493	0.039	22
Right cheek	40	QPSK 1_214	349000/1745	100%	0.037	0.018	-0.16	17.76	19.50	1.493	0.055	22
Right tilted	40	QPSK 1_214	349000/1745	100%	0.030	0.010	-0.14	17.76	19.50	1.493	0.045	22
Head Test Data (50%RB) SET_1												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.026	0.007	-0.19	17.68	19.50	1.521	0.040	22
Left tilted	40	QPSK 108_54	349000/1745	100%	0.023	0.005	-0.06	17.68	19.50	1.521	0.035	22
Right cheek	40	QPSK 108_54	349000/1745	100%	0.031	0.009	0.11	17.68	19.50	1.521	0.047	22
Right tilted	40	QPSK 108_54	349000/1745	100%	0.024	0.007	-0.02	17.68	19.50	1.521	0.037	22
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	40	QPSK 1_214	349000/1745	100%	0.090	0.052	-0.13	17.76	19.50	1.493	0.134	22
Back side	40	QPSK 1_214	349000/1745	100%	0.237	0.136	-0.04	17.76	19.50	1.493	0.354	22
Left side	40	QPSK 1_214	349000/1745	100%	0.026	0.008	-0.13	17.76	19.50	1.493	0.039	22
Right side	40	QPSK 1_214	349000/1745	100%	0.041	0.022	-0.08	17.76	19.50	1.493	0.061	22
Bottom side	40	QPSK 1_214	349000/1745	100%	0.247	0.135	0.17	17.76	19.50	1.493	0.369	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	40	QPSK 108_54	349000/1745	100%	0.098	0.057	0.10	17.68	19.50	1.521	0.149	22
Back side	40	QPSK 108_54	349000/1745	100%	0.253	0.149	-0.10	17.68	19.50	1.521	0.385	22
Left side	40	QPSK 108_54	349000/1745	100%	0.021	0.005	-0.13	17.68	19.50	1.521	0.032	22
Right side	40	QPSK 108_54	349000/1745	100%	0.045	0.025	0.11	17.68	19.50	1.521	0.068	22
Bottom side	40	QPSK 108_54	349000/1745	100%	0.266	0.144	0.16	17.68	19.50	1.521	0.405	22



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8.3.23 SAR Result of NR Band n71

Ant0 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) SET 1												
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.374	0.261	-0.01	22.87	24.00	1.297	0.485	22.3
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.278	0.191	-0.11	22.87	24.00	1.297	0.361	22.3
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.499	0.312	-0.06	22.87	24.00	1.297	0.647	22.3
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.422	0.250	0.11	22.87	24.00	1.297	0.547	22.3
Head Test Data (50%RB) SET 1												
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.354	0.248	0.06	22.81	24.00	1.315	0.466	22.3
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.286	0.196	0.05	22.81	24.00	1.315	0.376	22.3
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.500	0.313	0.04	22.81	24.00	1.315	0.658	22.3
Right tilted	20	QPSK 50_28	136100/680.5	100%	0.409	0.244	0.04	22.81	24.00	1.315	0.538	22.3
Head Evaluate Data (1RB) SET 1 with ENDC												
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.374	0.261	-0.01	22.87	21.00	0.650	0.243	22.3
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.278	0.191	-0.11	22.87	21.00	0.650	0.181	22.3
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.499	0.312	-0.06	22.87	21.00	0.650	0.324	22.3
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.422	0.250	0.11	22.87	21.00	0.650	0.274	22.3
Head Test Data (50%RB) SET 1 with ENDC												
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.354	0.248	0.06	22.81	21.00	0.659	0.233	22.3
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.286	0.196	0.05	22.81	21.00	0.659	0.188	22.3
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.500	0.313	0.04	22.81	21.00	0.659	0.330	22.3
Right tilted	20	QPSK 50_28	136100/680.5	100%	0.409	0.244	0.04	22.81	21.00	0.659	0.270	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	20	QPSK 1_1	136100/680.5	100%	0.194	0.119	0.06	22.87	24.00	1.297	0.252	22.3
Back side	20	QPSK 1_1	136100/680.5	100%	0.289	0.167	-0.15	22.87	24.00	1.297	0.375	22.3
Left side	20	QPSK 1_1	136100/680.5	100%	0.289	0.153	-0.03	22.87	24.00	1.297	0.375	22.3
Right side	20	QPSK 1_1	136100/680.5	100%	0.115	0.074	0.09	22.87	24.00	1.297	0.149	22.3
Top side	20	QPSK 1_1	136100/680.5	100%	0.283	0.151	-0.19	22.87	24.00	1.297	0.367	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	20	QPSK 50_28	136100/680.5	100%	0.194	0.121	0.05	22.81	24.00	1.315	0.255	22.3
Back side	20	QPSK 50_28	136100/680.5	100%	0.292	0.164	0.04	22.81	24.00	1.315	0.384	22.3
Left side	20	QPSK 50_28	136100/680.5	100%	0.253	0.170	0.01	22.81	24.00	1.315	0.333	22.3
Right side	20	QPSK 50_28	136100/680.5	100%	0.115	0.077	-0.11	22.81	24.00	1.315	0.151	22.3
Top side	20	QPSK 50_28	136100/680.5	100%	0.283	0.151	-0.03	22.81	24.00	1.315	0.372	22.3



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8.3.24 SAR Result of NR Band n77(78) (3450-3550)

Ant2 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) SET 1												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.293	0.129	0.05	18.73	19.00	1.064	0.312	22.2
Left tilted	100	QPSK 1_1	633334/3500	100%	0.172	0.075	-0.04	18.73	19.00	1.064	0.183	22.2
Right cheek	100	QPSK 1_1	633334/3500	100%	0.077	0.039	0.11	18.73	19.00	1.064	0.082	22.2
Right tilted	100	QPSK 1_1	633334/3500	100%	0.072	0.035	-0.14	18.73	19.00	1.064	0.077	22.2
Head Test Data (50%RB) SET 1												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.431	0.193	0.09	18.19	19.00	1.205	0.519	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.193	0.085	-0.09	18.19	19.00	1.205	0.233	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.086	0.044	0.16	18.19	19.00	1.205	0.104	22.2
Right tilted	100	QPSK 135_69	633334/3500	100%	0.082	0.040	0.10	18.19	19.00	1.205	0.099	22.2
Body worn&Hotspot Test data (Separate 10mm 1RB) SET 2												
Front side	100	QPSK 1_1	633334/3500	100%	0.116	0.054	-0.15	19.68	20.00	1.076	0.125	22.2
Back side	100	QPSK 1_1	633334/3500	100%	0.298	0.121	-0.15	19.68	20.00	1.076	0.321	22.2
Left side	100	QPSK 1_1	633334/3500	100%	0.022	0.007	-0.15	19.68	20.00	1.076	0.024	22.2
Right side	100	QPSK 1_1	633334/3500	100%	0.261	0.143	0.17	19.68	20.00	1.076	0.281	22.2
Top side	100	QPSK 1_1	633334/3500	100%	0.081	0.037	-0.02	19.68	20.00	1.076	0.087	22.2
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET 2												
Front side	100	QPSK 135_69	633334/3500	100%	0.209	0.097	-0.01	19.24	20.00	1.191	0.249	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.320	0.137	0.08	19.24	20.00	1.191	0.381	22.2
Left side	100	QPSK 135_69	633334/3500	100%	0.047	0.014	-0.05	19.24	20.00	1.191	0.056	22.2
Right side	100	QPSK 135_69	633334/3500	100%	0.294	0.123	0.08	19.24	20.00	1.191	0.350	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.130	0.061	-0.04	19.24	20.00	1.191	0.155	22.2

8.3.25 SAR Result of NR Band n77(78) (3700-3980)

Ant2 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) SET_1												
Left cheek	100	QPSK 1_1	657200/3858	100%	0.494	0.212	0.10	18.76	19.00	1.057	0.522	21.9
Left tilted	100	QPSK 1_1	657200/3858	100%	0.296	0.117	0.14	18.76	19.00	1.057	0.313	21.9
Right cheek	100	QPSK 1_1	657200/3858	100%	0.143	0.065	-0.15	18.76	19.00	1.057	0.151	21.9
Right tilted	100	QPSK 1_1	657200/3858	100%	0.141	0.060	-0.01	18.76	19.00	1.057	0.149	21.9
Left cheek	100	QPSK 1_1	654800/3822	100%	0.475	0.178	0.15	18.76	19.00	1.057	0.502	21.9
Head Test Data (50%RB) SET_1												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.415	0.172	0.09	18.31	19.00	1.172	0.486	21.9
Left tilted	100	QPSK 135_69	657200/3858	100%	0.273	0.108	-0.17	18.31	19.00	1.172	0.320	21.9
Right cheek	100	QPSK 135_69	657200/3858	100%	0.143	0.064	0.05	18.31	19.00	1.172	0.168	21.9
Right tilted	100	QPSK 135_69	657200/3858	100%	0.113	0.050	0.19	18.31	19.00	1.172	0.132	21.9
Left cheek	100	QPSK 135_69	654800/3822	100%	0.387	0.154	-0.08	18.31	19.00	1.172	0.454	21.9
Body worn&Hotspot Test data (Separate 10mm 1RB) SET_2												
Front side	100	QPSK 1_1	657200/3858	100%	0.240	0.111	0.19	19.73	20.00	1.064	0.255	21.9
Back side	100	QPSK 1_1	657200/3858	100%	0.453	0.178	0.11	19.73	20.00	1.064	0.482	21.9
Left side	100	QPSK 1_1	657200/3858	100%	0.058	0.025	-0.16	19.73	20.00	1.064	0.062	21.9
Right side	100	QPSK 1_1	657200/3858	100%	0.410	0.159	0.19	19.73	20.00	1.064	0.436	21.9
Top side	100	QPSK 1_1	657200/3858	100%	0.224	0.097	0.08	19.73	20.00	1.064	0.238	21.9
Back side	100	QPSK 1_1	654800/3822	100%	0.430	0.179	-0.15	19.68	20.00	1.076	0.463	21.9
Body worn&Hotspot Test data (Separate 10mm 50%RB) SET_2												
Front side	100	QPSK 135_69	657200/3858	100%	0.214	0.099	0.06	19.25	20.00	1.189	0.254	21.9
Back side	100	QPSK 135_69	657200/3858	100%	0.425	0.167	0.12	19.25	20.00	1.189	0.505	21.9
Left side	100	QPSK 135_69	657200/3858	100%	0.097	0.025	-0.07	19.25	20.00	1.189	0.115	21.9
Right side	100	QPSK 135_69	657200/3858	100%	0.382	0.149	0.11	19.25	20.00	1.189	0.454	21.9
Top side	100	QPSK 135_69	657200/3858	100%	0.198	0.087	-0.10	19.25	20.00	1.189	0.235	21.9
Back side	100	QPSK 135_69	654800/3822	100%	0.426	0.171	0.04	19.25	20.00	1.189	0.507	21.9

8.3.26 SAR Result of WiFi 2.4G

Ant7 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 SET_0												
Left cheek	802.11b	1/2412	98.63%	1.014	0.742	0.354	0.07	18.09	18.50	1.099	0.827	22.3
Left tilted	802.11b	1/2412	98.63%	1.014	0.515	0.247	-0.12	18.09	18.50	1.099	0.574	22.3
Right cheek	802.11b	1/2412	98.63%	1.014	0.280	0.169	-0.18	18.09	18.50	1.099	0.312	22.3
Right tilted	802.11b	1/2412	98.63%	1.014	0.225	0.126	-0.18	18.09	18.50	1.099	0.251	22.3
Left cheek	802.11b	6/2437	98.68%	1.013	0.624	0.315	-0.06	17.88	18.50	1.153	0.729	22.3
Left cheek	802.11b	11/2462	98.65%	1.014	0.573	0.289	0.08	17.83	18.50	1.167	0.678	22.3
Head Evaluate Data SET_2												
Left cheek	802.11b	1/2412	98.63%	1.014	0.742	0.354	0.07	18.09	10.50	0.174	0.131	22.3
Left tilted	802.11b	1/2412	98.63%	1.014	0.515	0.247	-0.12	18.09	10.50	0.174	0.091	22.3
Right cheek	802.11b	1/2412	98.63%	1.014	0.280	0.169	-0.18	18.09	10.50	0.174	0.049	22.3
Right tilted	802.11b	1/2412	98.63%	1.014	0.225	0.126	-0.18	18.09	10.50	0.174	0.040	22.3
Left cheek	802.11b	6/2437	98.68%	1.013	0.624	0.315	-0.06	17.88	10.50	0.183	0.116	22.3
Left cheek	802.11b	11/2462	98.65%	1.014	0.573	0.289	0.08	17.83	10.50	0.185	0.107	22.3
Body worn&Hotspot Test data (Separate 10mm) SET_1												
Front side	802.11b	1/2412	98.63%	1.014	0.238	0.129	-0.02	19.10	20.00	1.230	0.297	22.3
Back side	802.11b	1/2412	98.63%	1.014	0.312	0.160	0.18	19.10	20.00	1.230	0.389	22.3
Left side	802.11b	1/2412	98.63%	1.014	0.050	0.026	0.01	19.10	20.00	1.230	0.062	22.3
Right side	802.11b	1/2412	98.63%	1.014	0.295	0.156	0.13	19.10	20.00	1.230	0.368	22.3
Top side	802.11b	1/2412	98.63%	1.014	0.223	0.150	-0.01	19.10	20.00	1.230	0.278	22.3
Back side	802.11b	6/2437	98.68%	1.013	0.321	0.161	0.06	18.96	20.00	1.271	0.413	22.3
Back side	802.11b	11/2462	98.65%	1.014	0.308	0.137	-0.16	18.95	20.00	1.274	0.398	22.3
Body worn&Hotspot Evaluate data (Separate 10mm) SET_3												
Front side	802.11b	1/2412	98.63%	1.014	0.238	0.129	-0.02	19.10	15.50	0.437	0.105	22.3
Back side	802.11b	1/2412	98.63%	1.014	0.312	0.160	0.18	19.10	15.50	0.437	0.138	22.3
Left side	802.11b	1/2412	98.63%	1.014	0.050	0.026	0.01	19.10	15.50	0.437	0.022	22.3
Right side	802.11b	1/2412	98.63%	1.014	0.295	0.156	0.13	19.10	15.50	0.437	0.131	22.3
Top side	802.11b	1/2412	98.63%	1.014	0.223	0.150	-0.01	19.10	15.50	0.437	0.099	22.3
Back side	802.11b	6/2437	98.68%	1.013	0.321	0.161	0.06	18.96	15.50	0.451	0.147	22.3
Back side	802.11b	11/2462	98.65%	1.014	0.308	0.137	-0.16	18.95	15.50	0.452	0.141	22.3

8.3.27 SAR Result of WiFi 5G

Ant7 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 SET 0												
Left cheek	802.11a	64/5320	98.31%	1.017	0.574	0.199	0.13	15.35	15.50	1.035	0.604	22
Left tilted	802.11a	64/5320	98.31%	1.017	0.699	0.180	0.05	15.35	15.50	1.035	0.736	22
Right cheek	802.11a	64/5320	98.31%	1.017	0.360	0.127	0.13	15.35	15.50	1.035	0.379	22
Right tilted	802.11a	64/5320	98.31%	1.017	0.430	0.152	-0.18	15.35	15.50	1.035	0.453	22
Head Test Data of U-NII-2C SET 0												
Left cheek	802.11a	100/5500	98.26%	1.018	0.372	0.120	0.06	15.40	15.50	1.023	0.387	22
Left tilted	802.11a	100/5500	98.26%	1.018	0.504	0.164	0.09	15.40	15.50	1.023	0.525	22
Right cheek	802.11a	100/5500	98.26%	1.018	0.229	0.080	0.12	15.40	15.50	1.023	0.238	22
Right tilted	802.11a	100/5500	98.26%	1.018	0.276	0.099	0.15	15.40	15.50	1.023	0.287	22
Head Test Data of U-NII-3 SET 0												
Left cheek	802.11a	157/5785	98.31%	1.017	0.194	0.061	-0.16	15.50	15.50	1.000	0.197	22
Left tilted	802.11a	157/5785	98.31%	1.017	0.234	0.070	-0.05	15.50	15.50	1.000	0.238	22
Right cheek	802.11a	157/5785	98.31%	1.017	0.122	0.041	-0.13	15.50	15.50	1.000	0.124	22
Right tilted	802.11a	157/5785	98.31%	1.017	0.132	0.047	0.12	15.50	15.50	1.000	0.134	22
Head Evaluate Data of U-NII-2A SET 2												
Left cheek	802.11a	64/5320	98.31%	1.017	0.574	0.199	-0.12	15.35	11.00	0.367	0.214	22
Left tilted	802.11a	64/5320	98.31%	1.017	0.699	0.180	0.05	15.35	11.00	0.367	0.261	22
Right cheek	802.11a	64/5320	98.31%	1.017	0.360	0.127	0.09	15.35	11.00	0.367	0.134	22
Right tilted	802.11a	64/5320	98.31%	1.017	0.430	0.152	0.09	15.35	11.00	0.367	0.160	22
Head Evaluate Data of U-NII-2C SET 2												
Left cheek	802.11a	100/5500	98.26%	1.018	0.372	0.120	0.03	15.40	11.00	0.363	0.137	22
Left tilted	802.11a	100/5500	98.26%	1.018	0.504	0.164	0.17	15.40	11.00	0.363	0.186	22
Right cheek	802.11a	100/5500	98.26%	1.018	0.229	0.080	-0.14	15.40	11.00	0.363	0.085	22
Right tilted	802.11a	100/5500	98.26%	1.018	0.276	0.099	0.01	15.40	11.00	0.363	0.102	22
Head Evaluate Data of U-NII-3 SET 2												
Left cheek	802.11a	157/5785	98.31%	1.017	0.194	0.061	-0.17	15.50	11.00	0.355	0.070	22
Left tilted	802.11a	157/5785	98.31%	1.017	0.234	0.070	0.18	15.50	11.00	0.355	0.084	22
Right cheek	802.11a	157/5785	98.31%	1.017	0.122	0.041	0.19	15.50	11.00	0.355	0.044	22
Right tilted	802.11a	157/5785	98.31%	1.017	0.132	0.047	0.18	15.50	11.00	0.355	0.048	22
Body worn Test data of U-NII-2A (Separate 10mm) SET 1												
Front side	802.11a	64/5320	98.31%	1.017	0.201	0.074	0.01	18.34	19.00	1.164	0.238	22
Back side	802.11a	64/5320	98.31%	1.017	0.732	0.239	-0.04	18.34	19.00	1.164	0.867	22
Back side	802.11a	52/5260	98.31%	1.017	0.598	0.207	-0.07	18.29	19.00	1.178	0.716	22
Body worn Test data of U-NII-2C (Separate 10mm) SET 1												
Front side	802.11a	140/5700	98.31%	1.017	0.164	0.060	-0.15	18.79	19.00	1.050	0.175	22
Back side	802.11a	140/5700	98.31%	1.017	0.560	0.189	-0.17	18.79	19.00	1.050	0.598	22
Body worn Test data of U-NII-3 (Separate 10mm) SET 1												
Front side	802.11a	165/5825	98.26%	1.018	0.167	0.061	-0.01	18.83	19.00	1.040	0.177	22
Back side	802.11a	165/5825	98.26%	1.018	0.614	0.216	0.17	18.83	19.00	1.040	0.650	22
Body worn Evaluate data of U-NII-2A (Separate 10mm) SET 3												
Front side	802.11a	64/5320	98.31%	1.017	0.201	0.074	0.01	18.34	14.50	0.413	0.084	22
Back side	802.11a	64/5320	98.31%	1.017	0.732	0.239	-0.04	18.34	14.50	0.413	0.307	22
Back side	802.11a	52/5260	98.31%	1.017	0.598	0.207	-0.07	18.29	14.50	0.418	0.254	22
Body worn Evaluate data of U-NII-2C (Separate 10mm) SET 3												
Front side	802.11a	140/5700	98.31%	1.017	0.164	0.060	-0.15	18.79	14.50	0.372	0.062	22
Back side	802.11a	140/5700	98.31%	1.017	0.560	0.189	-0.17	18.79	14.50	0.372	0.212	22



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Body worn Evaluate data of U-NII-3 (Separate 10mm) SET 3												
Front side	802.11a	165/5825	98.26%	1.018	0.167	0.061	-0.01	18.83	14.50	0.369	0.063	22
Back side	802.11a	165/5825	98.26%	1.018	0.614	0.216	0.17	18.83	14.50	0.369	0.231	22
Hotspot Test data of U-NII-1 (Separate 10mm) SET 1												
Front side	802.11a	36/5180	98.31%	1.017	0.209	0.073	-0.10	18.35	19.00	1.161	0.247	22
Back side	802.11a	36/5180	98.31%	1.017	0.625	0.206	-0.07	18.35	19.00	1.161	0.738	22
Left side	802.11a	36/5180	98.31%	1.017	0.049	0.014	0.12	18.35	19.00	1.161	0.058	22
Right side	802.11a	36/5180	98.31%	1.017	0.233	0.096	0.12	18.35	19.00	1.161	0.275	22
Top side	802.11a	36/5180	98.31%	1.017	0.499	0.182	-0.16	18.35	19.00	1.161	0.589	22
Hotspot Test data of U-NII-3 (Separate 10mm) SET 1												
Front side	802.11a	165/5825	98.26%	1.018	0.167	0.061	0.19	18.83	19.00	1.040	0.177	22
Back side	802.11a	165/5825	98.26%	1.018	0.614	0.216	-0.08	18.83	19.00	1.040	0.650	22
Left side	802.11a	165/5825	98.26%	1.018	0.091	0.020	0.00	18.83	19.00	1.040	0.096	22
Right side	802.11a	165/5825	98.26%	1.018	0.318	0.130	0.02	18.83	19.00	1.040	0.337	22
Top side	802.11a	165/5825	98.26%	1.018	0.496	0.186	0.02	18.83	19.00	1.040	0.525	22
Hotspot Evaluate data of U-NII-1 (Separate 10mm) SET 3												
Front side	802.11a	36/5180	98.31%	1.017	0.209	0.073	-0.10	18.35	14.50	0.412	0.088	22
Back side	802.11a	36/5180	98.31%	1.017	0.625	0.206	-0.07	18.35	14.50	0.412	0.262	22
Left side	802.11a	36/5180	98.31%	1.017	0.049	0.014	0.12	18.35	14.50	0.412	0.021	22
Right side	802.11a	36/5180	98.31%	1.017	0.233	0.096	0.12	18.35	14.50	0.412	0.098	22
Top side	802.11a	36/5180	98.31%	1.017	0.499	0.182	-0.16	18.35	14.50	0.412	0.209	22
Hotspot Evaluate data of U-NII-3 (Separate 10mm) SET 3												
Front side	802.11a	165/5825	98.26%	1.018	0.167	0.061	0.19	18.83	14.50	0.369	0.063	22
Back side	802.11a	165/5825	98.26%	1.018	0.614	0.216	-0.08	18.83	14.50	0.369	0.231	22
Left side	802.11a	165/5825	98.26%	1.018	0.091	0.020	0.00	18.83	14.50	0.369	0.034	22
Right side	802.11a	165/5825	98.26%	1.018	0.318	0.130	0.02	18.83	14.50	0.369	0.119	22
Top side	802.11a	165/5825	98.26%	1.018	0.496	0.186	0.02	18.83	14.50	0.369	0.186	22
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) SET 1												
Front side	802.11a	64/5320	98.31%	1.017	2.460	0.720	-0.19	18.34	19.00	1.164	0.852	22
Back side	802.11a	64/5320	98.31%	1.017	2.760	0.882	0.02	18.34	19.00	1.164	1.044	22
Left side	802.11a	64/5320	98.31%	1.017	0.143	0.045	0.14	18.34	19.00	1.164	0.053	22
Right side	802.11a	64/5320	98.31%	1.017	1.320	0.377	0.00	18.34	19.00	1.164	0.446	22
Top side	802.11a	64/5320	98.31%	1.017	5.940	1.320	-0.01	18.34	19.00	1.164	1.563	22
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) SET 1												
Front side	802.11a	140/5700	98.31%	1.017	1.270	0.350	0.19	18.79	19.00	1.050	0.374	22
Back side	802.11a	140/5700	98.31%	1.017	3.460	0.809	-0.09	18.79	19.00	1.050	0.864	22
Left side	802.11a	140/5700	98.31%	1.017	0.122	0.041	0.14	18.79	19.00	1.050	0.044	22
Right side	802.11a	140/5700	98.31%	1.017	0.820	0.266	0.01	18.79	19.00	1.050	0.284	22
Top side	802.11a	140/5700	98.31%	1.017	4.180	1.010	0.13	18.79	19.00	1.050	1.079	22



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8.3.28 SAR Result of BT

Ant7 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 SET_0												
Left cheek	DH5	39/2441	77.52%	1.290	0.146	0.068	0.19	11.98	12.00	1.005	0.189	21.9
Left tilted	DH5	39/2441	77.52%	1.290	0.101	0.048	-0.19	11.98	12.00	1.005	0.131	21.9
Right cheek	DH5	39/2441	77.52%	1.290	0.055	0.033	-0.14	11.98	12.00	1.005	0.071	21.9
Right tilted	DH5	39/2441	77.52%	1.290	0.044	0.025	-0.18	11.98	12.00	1.005	0.057	21.9
Left cheek	DH5	0/2402	77.50%	1.290	0.122	0.062	0.00	11.77	12.00	1.054	0.166	21.9
Left cheek	DH5	78/2480	77.54%	1.290	0.113	0.057	-0.11	11.41	12.00	1.146	0.167	21.9
Body worn&Hotspot Test data (Separate 10mm) SET_1												
Front side	DH5	39/2441	77.52%	1.290	0.054	0.029	-0.08	11.98	12.00	1.005	0.070	21.9
Back side	DH5	39/2441	77.52%	1.290	0.072	0.034	0.02	11.98	12.00	1.005	0.093	21.9
Left side	DH5	39/2441	77.52%	1.290	0.012	0.005	0.05	11.98	12.00	1.005	0.016	21.9
Right side	DH5	39/2441	77.52%	1.290	0.068	0.036	-0.03	11.98	12.00	1.005	0.088	21.9
Top side	DH5	39/2441	77.52%	1.290	0.048	0.024	0.06	11.98	12.00	1.005	0.062	21.9
Back side	DH5	0/2402	77.50%	1.290	0.047	0.039	0.07	11.77	12.00	1.054	0.064	21.9
Back side	DH5	78/2480	77.54%	1.290	0.057	0.031	0.06	11.41	12.00	1.146	0.084	21.9

8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body worn	Hotspot	Product specific 10gSAR
1	WWAN+WIFI2.4G	Yes	Yes	Yes	Yes
2	WWAN+WIFI5G	Yes	Yes	Yes	Yes
3	WWAN+BT	Yes	Yes	Yes	Yes
4	WWAN+WIFI 5G + Bluetooth	Yes	Yes	Yes	Yes
5	WWAN+WIFI2.4G+NFC	/	/	/	Yes
6	WWAN+WIFI5G+NFC	/	/	/	Yes
7	WWAN+BT+NFC	/	/	/	Yes
8	WWAN+WIFI 5G + Bluetooth+NFC	/	/	/	Yes

8.4.2 Simultaneous Transmission SAR Summation Scenario

Sum_ULCA(Head)

LTE Band ULCA	Exposure position	Ant0	Ant2	LTE B7	Inter-band CA Summed SAR	
				Ant4		
		1	2	3	1+3	2+3
LTE B2	Left Touch	/	0.745	0.263	0.263	1.008
	Left Tilt	/	0.295	0.118	0.118	0.413
	Right Touch	/	0.522	0.779	0.779	1.301
	Right Tilt	/	0.441	0.160	0.160	0.601
LTE B5	Left Touch	0.443	/	0.263	0.706	0.263
	Left Tilt	0.375	/	0.118	0.493	0.118
	Right Touch	0.556	/	0.779	1.335	0.779
	Right Tilt	0.504	/	0.160	0.664	0.160
LTE B4	Left Touch	/	0.674	0.263	0.263	0.937
	Left Tilt	/	0.236	0.118	0.118	0.354
	Right Touch	/	0.249	0.779	0.779	1.028
	Right Tilt	/	0.197	0.160	0.160	0.357

LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B12	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Left Touch	0.674	/	0.251	0.925	0.251
	Left Tilt	0.236	/	0.187	0.423	0.187
	Right Touch	0.249	/	0.433	0.682	0.433
	Right Tilt	0.197	/	0.303	0.500	0.303
LTE B7	Left Touch	/	0.263	0.251	0.251	0.514
	Left Tilt	/	0.118	0.187	0.187	0.305
	Right Touch	/	0.779	0.433	0.433	1.212
	Right Tilt	/	0.160	0.303	0.303	0.463

LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B17	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Left Touch	0.674	/	0.251	0.925	0.251
	Left Tilt	0.236	/	0.187	0.423	0.187
	Right Touch	0.249	/	0.433	0.682	0.433
	Right Tilt	0.197	/	0.303	0.500	0.303

LTE Band ULCA	Exposure position	Ant0	Ant4	LTE B66	Inter-band CA Summed SAR	
				Ant2		
		1	2	3	1+3	2+3
LTE B7	Left Touch	/	0.263	0.674	0.674	0.937



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	Left Tilt	/	0.118	0.236	0.236	0.354
	Right Touch	/	0.779	0.249	0.249	1.028
	Right Tilt	/	0.160	0.197	0.197	0.357
LTE B12	Left Touch	0.251	/	0.674	0.925	0.674
	Left Tilt	0.187	/	0.236	0.423	0.236
	Right Touch	0.433	/	0.249	0.682	0.249
	Right Tilt	0.303	/	0.197	0.500	0.197

Sum_ULCA(Body-Worn)

LTE Band ULCA	Exposure position	Ant0	Ant2	LTE B7	Inter-band CA Summed SAR	
				Ant4		
		1	2	3	1+3	2+3
LTE B2	Front side	/	0.328	0.257	/	0.585
	Back side	/	0.567	0.488	/	1.055
LTE B5	Front side	0.324	/	0.257	0.581	/
	Back side	0.383	/	0.488	0.871	/
LTE B4	Front side	/	0.492	0.257	/	0.749
	Back side	/	0.557	0.488	/	1.045

LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B12	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Front side	0.492	/	0.293	0.785	/
	Back side	0.557	/	0.407	0.964	/
LTE B7	Front side	/	0.257	0.293	/	0.550
	Back side	/	0.488	0.407	/	0.895

LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B17	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Front side	0.492	/	0.293	0.785	/
	Back side	0.557	/	0.407	0.964	/

LTE Band ULCA	Exposure position	Ant0	Ant4	LTE B66	Inter-band CA Summed SAR	
				Ant2		
		1	2	3	1+3	2+3
LTE B7	Front side	/	0.257	0.492	/	0.749
	Back side	/	0.488	0.557	/	1.045
LTE B12	Front side	0.293	/	0.492	0.785	/



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	Back side	0.407	/	0.557	0.964	/
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Sum_ULCA(Hotspot)

LTE Band ULCA	Exposure position	Ant0	Ant2	LTE B7 Ant4	Inter-band CA Summed SAR	
		1	2	3		
		1	2	3	1+3	2+3
LTE B2	Front side	/	0.328	0.257	0.257	0.585
	Back side	/	0.567	0.488	0.488	1.055
	Left side	/	/	0.338	0.338	0.338
	Right side	/	0.439	/	0.000	0.439
	Top side	/	0.173	0.082	0.082	0.255
	Bottom side	/	/	/	0.000	0.000
LTE B5	Front side	0.324	/	0.257	0.581	0.257
	Back side	0.383	/	0.488	0.871	0.488
	Left side	0.214	/	0.338	0.552	0.338
	Right side	0.102	/	/	0.102	0.000
	Top side	0.325	/	0.082	0.407	0.082
	Bottom side	/	/	/	0.000	0.000
LTE B4	Front side	/	0.492	0.257	0.257	0.749
	Back side	/	0.557	0.488	0.488	1.045
	Left side	/	/	0.338	0.338	0.338
	Right side	/	0.490	/	0.000	0.490
	Top side	/	0.213	0.082	0.082	0.295
	Bottom side	/	/	/	0.000	0.000

LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B12 Ant0	Inter-band CA Summed SAR	
		1	2	3		
		1	2	3	1+3	2+3
LTE B4	Front side	0.492	/	0.293	0.785	0.293
	Back side	0.557	/	0.407	0.964	0.407
	Left side	/	/	0.345	0.345	0.345
	Right side	0.490	/	0.211	0.701	0.211
	Top side	0.213	/	0.465	0.678	0.465
	Bottom side	/	/	/	0.000	0.000
LTE B7	Front side	/	0.257	0.293	0.293	0.550
	Back side	/	0.488	0.407	0.407	0.895
	Left side	/	0.338	0.345	0.345	0.683
	Right side	/	/	0.211	0.211	0.211
	Top side	/	0.082	0.465	0.465	0.547
	Bottom side	/	/	/	0.000	0.000



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LTE Band ULCA	Exposure position	Ant2	Ant4	LTE B17	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Front side	0.492	/	0.293	0.785	0.293
	Back side	0.557	/	0.407	0.964	0.407
	Left side	/	/	0.345	0.345	0.345
	Right side	0.490	/	0.211	0.701	0.211
	Top side	0.213	/	0.465	0.678	0.465
	Bottom side	/	/	/	0.000	0.000

LTE Band ULCA	Exposure position	Ant0	Ant4	LTE B66	Inter-band CA Summed SAR	
				Ant2		
		1	2	3	1+3	2+3
LTE B7	Front side	/	0.257	0.492	0.492	0.749
	Back side	/	0.488	0.557	0.557	1.045
	Left side	/	0.338	/	0.000	0.338
	Right side	/	/	0.490	0.490	0.490
	Top side	/	0.082	0.213	0.213	0.295
	Bottom side	/	/	/	0.000	0.000
LTE B12	Front side	0.293	/	0.492	0.785	0.492
	Back side	0.407	/	0.557	0.964	0.557
	Left side	0.345	/	/	0.345	0.000
	Right side	0.211	/	0.490	0.701	0.490
	Top side	0.465	/	0.213	0.678	0.213
	Bottom side	/	/	/	0.000	0.000

Sum Head

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.607	0.131	0.214	0.189	0.738	0.821	0.796	1.010
	Left tilted	0.659	0.091	0.261	0.131	0.750	0.920	0.790	1.051
	Right cheek	0.756	0.049	0.134	0.071	0.805	0.890	0.827	0.961
	Right tilted	0.890	0.040	0.160	0.057	0.930	1.050	0.947	1.107
GSM1900	Left cheek	0.985	0.131	0.214	0.189	1.116	1.199	1.174	1.388
	Left tilted	0.276	0.091	0.261	0.131	0.367	0.537	0.407	0.668
	Right cheek	0.294	0.049	0.134	0.071	0.343	0.428	0.365	0.499
	Right tilted	0.259	0.040	0.160	0.057	0.299	0.419	0.316	0.476
WB2	Left cheek	1.097	0.131	0.214	0.189	1.228	1.311	1.286	1.500
	Left tilted	0.420	0.091	0.261	0.131	0.511	0.681	0.551	0.812
	Right cheek	0.393	0.049	0.134	0.071	0.442	0.527	0.464	0.598
	Right tilted	0.320	0.040	0.160	0.057	0.360	0.480	0.377	0.537



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WB4	Left cheek	1.150	0.131	0.214	0.189	1.281	1.364	1.339	1.553
	Left tilted	0.336	0.091	0.261	0.131	0.427	0.597	0.467	0.728
	Right cheek	0.296	0.049	0.134	0.071	0.345	0.430	0.367	0.501
	Right tilted	0.284	0.040	0.160	0.057	0.324	0.444	0.341	0.501
WB5	Left cheek	0.637	0.131	0.214	0.189	0.768	0.851	0.826	1.040
	Left tilted	0.579	0.091	0.261	0.131	0.670	0.840	0.710	0.971
	Right cheek	0.918	0.049	0.134	0.071	0.967	1.052	0.989	1.123
	Right tilted	0.778	0.040	0.160	0.057	0.818	0.938	0.835	0.995
LTE B5	Left cheek	0.803	0.131	0.214	0.189	0.934	1.017	0.992	1.206
	Left tilted	0.750	0.091	0.261	0.131	0.841	1.011	0.881	1.142
	Right cheek	1.109	0.049	0.134	0.071	1.158	1.243	1.180	1.314
	Right tilted	1.007	0.040	0.160	0.057	1.047	1.167	1.064	1.224
LTE B7	Left cheek	0.417	0.131	0.214	0.189	0.548	0.631	0.606	0.820
	Left tilted	0.187	0.091	0.261	0.131	0.278	0.448	0.318	0.579
	Right cheek	1.234	0.049	0.134	0.071	1.283	1.368	1.305	1.439
	Right tilted	0.254	0.040	0.160	0.057	0.294	0.414	0.311	0.471
LTE B12(17)	Left cheek	0.501	0.131	0.214	0.189	0.632	0.715	0.690	0.904
	Left tilted	0.374	0.091	0.261	0.131	0.465	0.635	0.505	0.766
	Right cheek	0.864	0.049	0.134	0.071	0.913	0.998	0.935	1.069
	Right tilted	0.605	0.040	0.160	0.057	0.645	0.765	0.662	0.822
LTE B13	Left cheek	0.480	0.131	0.214	0.189	0.611	0.694	0.669	0.883
	Left tilted	0.459	0.091	0.261	0.131	0.550	0.720	0.590	0.851
	Right cheek	0.810	0.049	0.134	0.071	0.859	0.944	0.881	1.015
	Right tilted	0.745	0.040	0.160	0.057	0.785	0.905	0.802	0.962
LTE B25(2)	Left cheek	0.745	0.131	0.214	0.189	0.876	0.959	0.934	1.148
	Left tilted	0.295	0.091	0.261	0.131	0.386	0.556	0.426	0.687
	Right cheek	0.522	0.049	0.134	0.071	0.571	0.656	0.593	0.727
	Right tilted	0.441	0.040	0.160	0.057	0.481	0.601	0.498	0.658
LTE B26	Left cheek	0.328	0.131	0.214	0.189	0.459	0.542	0.517	0.731
	Left tilted	0.330	0.091	0.261	0.131	0.421	0.591	0.461	0.722
	Right cheek	0.417	0.049	0.134	0.071	0.466	0.551	0.488	0.622
	Right tilted	0.383	0.040	0.160	0.057	0.423	0.543	0.440	0.600
LTE B30	Left cheek	0.206	0.131	0.214	0.189	0.337	0.420	0.395	0.609
	Left tilted	0.164	0.091	0.261	0.131	0.255	0.425	0.295	0.556
	Right cheek	0.711	0.049	0.134	0.071	0.760	0.845	0.782	0.916
	Right tilted	0.283	0.040	0.160	0.057	0.323	0.443	0.340	0.500
LTE B41(38)	Left cheek	0.441	0.131	0.214	0.189	0.572	0.655	0.630	0.844
	Left tilted	0.181	0.091	0.261	0.131	0.272	0.442	0.312	0.573
	Right cheek	1.282	0.049	0.134	0.071	1.331	1.416	1.353	1.487
	Right tilted	0.305	0.040	0.160	0.057	0.345	0.465	0.362	0.522
LTE B42	Left cheek	0.979	0.131	0.214	0.189	1.110	1.193	1.168	1.382
	Left tilted	0.218	0.091	0.261	0.131	0.309	0.479	0.349	0.610
	Right cheek	0.136	0.049	0.134	0.071	0.185	0.270	0.207	0.341
	Right tilted	0.118	0.040	0.160	0.057	0.158	0.278	0.175	0.335
LTE B66(4)	Left cheek	0.674	0.131	0.214	0.189	0.805	0.888	0.863	1.077
	Left tilted	0.236	0.091	0.261	0.131	0.327	0.497	0.367	0.628
	Right cheek	0.249	0.049	0.134	0.071	0.298	0.383	0.320	0.454
	Right tilted	0.197	0.040	0.160	0.057	0.237	0.357	0.254	0.414
LTE B71	Left cheek	0.425	0.131	0.214	0.189	0.556	0.639	0.614	0.828
	Left tilted	0.351	0.091	0.261	0.131	0.442	0.612	0.482	0.743



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	Right cheek	0.623	0.049	0.134	0.071	0.672	0.757	0.694	0.828
	Right tilted	0.471	0.040	0.160	0.057	0.511	0.631	0.528	0.688
N2	Left cheek	0.688	0.131	0.214	0.189	0.819	0.902	0.877	1.091
	Left tilted	0.270	0.091	0.261	0.131	0.361	0.531	0.401	0.662
	Right cheek	0.263	0.049	0.134	0.071	0.312	0.397	0.334	0.468
	Right tilted	0.207	0.040	0.160	0.057	0.247	0.367	0.264	0.424
N5	Left cheek	0.597	0.131	0.214	0.189	0.728	0.811	0.786	1.000
	Left tilted	0.516	0.091	0.261	0.131	0.607	0.777	0.647	0.908
	Right cheek	1.152	0.049	0.134	0.071	1.201	1.286	1.223	1.357
	Right tilted	0.798	0.040	0.160	0.057	0.838	0.958	0.855	1.015
N7	Left cheek	0.440	0.131	0.214	0.189	0.571	0.654	0.629	0.843
	Left tilted	0.195	0.091	0.261	0.131	0.286	0.456	0.326	0.587
	Right cheek	1.099	0.049	0.134	0.071	1.148	1.233	1.170	1.304
	Right tilted	0.343	0.040	0.160	0.057	0.383	0.503	0.400	0.560
N25	Left cheek	0.706	0.131	0.214	0.189	0.837	0.920	0.895	1.109
	Left tilted	0.290	0.091	0.261	0.131	0.381	0.551	0.421	0.682
	Right cheek	0.334	0.049	0.134	0.071	0.383	0.468	0.405	0.539
	Right tilted	0.229	0.040	0.160	0.057	0.269	0.389	0.286	0.446
N41(38)	Left cheek	0.500	0.131	0.214	0.189	0.631	0.714	0.689	0.903
	Left tilted	0.330	0.091	0.261	0.131	0.421	0.591	0.461	0.722
	Right cheek	1.257	0.049	0.134	0.071	1.306	1.391	1.328	1.462
	Right tilted	0.391	0.040	0.160	0.057	0.431	0.551	0.448	0.608
N66	Left cheek	0.778	0.131	0.214	0.189	0.909	0.992	0.967	1.181
	Left tilted	0.338	0.091	0.261	0.131	0.429	0.599	0.469	0.730
	Right cheek	0.364	0.049	0.134	0.071	0.413	0.498	0.435	0.569
	Right tilted	0.275	0.040	0.160	0.057	0.315	0.435	0.332	0.492
N71	Left cheek	0.485	0.131	0.214	0.189	0.616	0.699	0.674	0.888
	Left tilted	0.376	0.091	0.261	0.131	0.467	0.637	0.507	0.768
	Right cheek	0.658	0.049	0.134	0.071	0.707	0.792	0.729	0.863
	Right tilted	0.547	0.040	0.160	0.057	0.587	0.707	0.604	0.764
N77(78)	Left cheek	0.522	0.131	0.214	0.189	0.653	0.736	0.711	0.925
	Left tilted	0.320	0.091	0.261	0.131	0.411	0.581	0.451	0.712
	Right cheek	0.168	0.049	0.134	0.071	0.217	0.302	0.239	0.373
	Right tilted	0.149	0.040	0.160	0.057	0.189	0.309	0.206	0.366

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A-7A	Left cheek	1.008	0.131	0.214	0.189	1.139	1.222	1.197	1.411
	Left tilted	0.413	0.091	0.261	0.131	0.504	0.674	0.544	0.805
	Right cheek	1.301	0.049	0.134	0.071	1.350	1.435	1.372	1.506
	Right tilted	0.601	0.040	0.160	0.057	0.641	0.761	0.658	0.818
CA_5A-7A	Left cheek	0.706	0.131	0.214	0.189	0.837	0.920	0.895	1.109
	Left tilted	0.493	0.091	0.261	0.131	0.584	0.754	0.624	0.885
	Right cheek	1.335	0.049	0.134	0.071	1.384	1.469	1.406	1.540
	Right tilted	0.664	0.040	0.160	0.057	0.704	0.824	0.721	0.881
CA_4A-7A	Left cheek	0.937	0.131	0.214	0.189	1.068	1.151	1.126	1.340
	Left tilted	0.354	0.091	0.261	0.131	0.445	0.615	0.485	0.746
	Right cheek	1.028	0.049	0.134	0.071	1.077	1.162	1.099	1.233



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	Right tilted	0.357	0.040	0.160	0.057	0.397	0.517	0.414	0.574
CA_4A-12A	Left cheek	0.925	0.131	0.214	0.189	1.056	1.139	1.114	1.328
	Left tilted	0.423	0.091	0.261	0.131	0.514	0.684	0.554	0.815
	Right cheek	0.682	0.049	0.134	0.071	0.731	0.816	0.753	0.887
	Right tilted	0.500	0.040	0.160	0.057	0.540	0.660	0.557	0.717
CA_7A-12A	Left cheek	0.514	0.131	0.214	0.189	0.645	0.728	0.703	0.917
	Left tilted	0.305	0.091	0.261	0.131	0.396	0.566	0.436	0.697
	Right cheek	1.212	0.049	0.134	0.071	1.261	1.346	1.283	1.417
	Right tilted	0.463	0.040	0.160	0.057	0.503	0.623	0.520	0.680
CA_4A-17A	Left cheek	0.925	0.131	0.214	0.189	1.056	1.139	1.114	1.328
	Left tilted	0.423	0.091	0.261	0.131	0.514	0.684	0.554	0.815
	Right cheek	0.682	0.049	0.134	0.071	0.731	0.816	0.753	0.887
	Right tilted	0.500	0.040	0.160	0.057	0.540	0.660	0.557	0.717
CA_7A-66A	Left cheek	0.937	0.131	0.214	0.189	1.068	1.151	1.126	1.340
	Left tilted	0.354	0.091	0.261	0.131	0.445	0.615	0.485	0.746
	Right cheek	1.028	0.049	0.134	0.071	1.077	1.162	1.099	1.233
	Right tilted	0.357	0.040	0.160	0.057	0.397	0.517	0.414	0.574
CA_12A-66A	Left cheek	0.925	0.131	0.214	0.189	1.056	1.139	1.114	1.328
	Left tilted	0.423	0.091	0.261	0.131	0.514	0.684	0.554	0.815
	Right cheek	0.682	0.049	0.134	0.071	0.731	0.816	0.753	0.887
	Right tilted	0.500	0.040	0.160	0.057	0.540	0.660	0.557	0.717

Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
DC_5A_n2A	Left cheek	1.131	0.131	0.214	0.189	1.262	1.345	1.320	1.534
	Left tilted	0.645	0.091	0.261	0.131	0.736	0.906	0.776	1.037
	Right cheek	0.819	0.049	0.134	0.071	0.868	0.953	0.890	1.024
	Right tilted	0.711	0.040	0.160	0.057	0.751	0.871	0.768	0.928
DC_7A_n2A/DC_7A-5A_n2A	Left cheek	0.951	0.131	0.214	0.189	1.082	1.165	1.140	1.354
	Left tilted	0.388	0.091	0.261	0.131	0.479	0.649	0.519	0.780
	Right cheek	1.042	0.049	0.134	0.071	1.091	1.176	1.113	1.247
	Right tilted	0.367	0.040	0.160	0.057	0.407	0.527	0.424	0.584
DC_12A_n2A	Left cheek	0.939	0.131	0.214	0.189	1.070	1.153	1.128	1.342
	Left tilted	0.457	0.091	0.261	0.131	0.548	0.718	0.588	0.849
	Right cheek	0.696	0.049	0.134	0.071	0.745	0.830	0.767	0.901
	Right tilted	0.510	0.040	0.160	0.057	0.550	0.670	0.567	0.727
DC_13A_n2A	Left cheek	1.168	0.131	0.214	0.189	1.299	1.382	1.357	1.571
	Left tilted	0.729	0.091	0.261	0.131	0.820	0.990	0.860	1.121
	Right cheek	1.073	0.049	0.134	0.071	1.122	1.207	1.144	1.278
	Right tilted	0.952	0.040	0.160	0.057	0.992	1.112	1.009	1.169
DC_71A_n2A	Left cheek	0.901	0.131	0.214	0.189	1.032	1.115	1.090	1.304
	Left tilted	0.468	0.091	0.261	0.131	0.559	0.729	0.599	0.860
	Right cheek	0.582	0.049	0.134	0.071	0.631	0.716	0.653	0.787
	Right tilted	0.451	0.040	0.160	0.057	0.491	0.611	0.508	0.668
DC_66A_n2A	Left cheek	0.720	0.131	0.214	0.189	0.851	0.934	0.909	1.123
	Left tilted	0.300	0.091	0.261	0.131	0.391	0.561	0.431	0.692
	Right cheek	0.301	0.049	0.134	0.071	0.350	0.435	0.372	0.506



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	Right tilted	0.238	0.040	0.160	0.057	0.278	0.398	0.295	0.455
DC_2A_n5A	Left cheek	1.044	0.131	0.214	0.189	1.175	1.258	1.233	1.447
	Left tilted	0.553	0.091	0.261	0.131	0.644	0.814	0.684	0.945
	Right cheek	1.099	0.049	0.134	0.071	1.148	1.233	1.170	1.304
	Right tilted	0.840	0.040	0.160	0.057	0.880	1.000	0.897	1.057
DC_7A_n5A	Left cheek	0.562	0.131	0.214	0.189	0.693	0.776	0.751	0.965
	Left tilted	0.376	0.091	0.261	0.131	0.467	0.637	0.507	0.768
	Right cheek	1.356	0.049	0.134	0.071	1.405	1.490	1.427	1.561
	Right tilted	0.559	0.040	0.160	0.057	0.599	0.719	0.616	0.776
DC_66A_n5A	Left cheek	0.973	0.131	0.214	0.189	1.104	1.187	1.162	1.376
	Left tilted	0.494	0.091	0.261	0.131	0.585	0.755	0.625	0.886
	Right cheek	0.826	0.049	0.134	0.071	0.875	0.960	0.897	1.031
	Right tilted	0.596	0.040	0.160	0.057	0.636	0.756	0.653	0.813
DC_2A_n41A	Left cheek	0.346	0.131	0.214	0.189	0.477	0.560	0.535	0.749
	Left tilted	0.239	0.091	0.261	0.131	0.330	0.500	0.370	0.631
	Right cheek	0.838	0.049	0.134	0.071	0.887	0.972	0.909	1.043
	Right tilted	0.301	0.040	0.160	0.057	0.341	0.461	0.358	0.518
DC_4A_n41A	Left cheek	0.347	0.131	0.214	0.189	0.478	0.561	0.536	0.750
	Left tilted	0.241	0.091	0.261	0.131	0.332	0.502	0.372	0.633
	Right cheek	0.831	0.049	0.134	0.071	0.880	0.965	0.902	1.036
	Right tilted	0.301	0.040	0.160	0.057	0.341	0.461	0.358	0.518
DC_5A_n41A	Left cheek	0.758	0.131	0.214	0.189	0.889	0.972	0.947	1.161
	Left tilted	0.586	0.091	0.261	0.131	0.677	0.847	0.717	0.978
	Right cheek	1.349	0.049	0.134	0.071	1.398	1.483	1.420	1.554
	Right tilted	0.774	0.040	0.160	0.057	0.814	0.934	0.831	0.991
DC_12A_n41A	Left cheek	0.566	0.131	0.214	0.189	0.697	0.780	0.755	0.969
	Left tilted	0.398	0.091	0.261	0.131	0.489	0.659	0.529	0.790
	Right cheek	1.226	0.049	0.134	0.071	1.275	1.360	1.297	1.431
	Right tilted	0.573	0.040	0.160	0.057	0.613	0.733	0.630	0.790
DC_25A_n41A	Left cheek	0.346	0.131	0.214	0.189	0.477	0.560	0.535	0.749
	Left tilted	0.239	0.091	0.261	0.131	0.330	0.500	0.370	0.631
	Right cheek	0.838	0.049	0.134	0.071	0.887	0.972	0.909	1.043
	Right tilted	0.301	0.040	0.160	0.057	0.341	0.461	0.358	0.518
DC_66A_n41A	Left cheek	0.347	0.131	0.214	0.189	0.478	0.561	0.536	0.750
	Left tilted	0.241	0.091	0.261	0.131	0.332	0.502	0.372	0.633
	Right cheek	0.831	0.049	0.134	0.071	0.880	0.965	0.902	1.036
	Right tilted	0.301	0.040	0.160	0.057	0.341	0.461	0.358	0.518
DC_71A_n41A	Left cheek	0.528	0.131	0.214	0.189	0.659	0.742	0.717	0.931
	Left tilted	0.409	0.091	0.261	0.131	0.500	0.670	0.540	0.801
	Right cheek	1.112	0.049	0.134	0.071	1.161	1.246	1.183	1.317
	Right tilted	0.514	0.040	0.160	0.057	0.554	0.674	0.571	0.731
DC_2A_n66A/DC_2A-2A_n66A	Left cheek	0.793	0.131	0.214	0.189	0.924	1.007	0.982	1.196
	Left tilted	0.334	0.091	0.261	0.131	0.425	0.595	0.465	0.726
	Right cheek	0.577	0.049	0.134	0.071	0.626	0.711	0.648	0.782
	Right tilted	0.486	0.040	0.160	0.057	0.526	0.646	0.543	0.703
DC_5A_n66A	Left cheek	0.833	0.131	0.214	0.189	0.964	1.047	1.022	1.236
	Left tilted	0.544	0.091	0.261	0.131	0.635	0.805	0.675	0.936
	Right cheek	0.738	0.049	0.134	0.071	0.787	0.872	0.809	0.943
	Right tilted	0.642	0.040	0.160	0.057	0.682	0.802	0.699	0.859
DC_7A_n66A	Left cheek	0.653	0.131	0.214	0.189	0.784	0.867	0.842	1.056



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	Left tilted	0.287	0.091	0.261	0.131	0.378	0.548	0.418	0.679
	Right cheek	0.961	0.049	0.134	0.071	1.010	1.095	1.032	1.166
	Right tilted	0.298	0.040	0.160	0.057	0.338	0.458	0.355	0.515
DC_12A_n66A	Left cheek	0.641	0.131	0.214	0.189	0.772	0.855	0.830	1.044
	Left tilted	0.356	0.091	0.261	0.131	0.447	0.617	0.487	0.748
	Right cheek	0.615	0.049	0.134	0.071	0.664	0.749	0.686	0.820
	Right tilted	0.441	0.040	0.160	0.057	0.481	0.601	0.498	0.658
DC_13A_n66A	Left cheek	0.870	0.131	0.214	0.189	1.001	1.084	1.059	1.273
	Left tilted	0.628	0.091	0.261	0.131	0.719	0.889	0.759	1.020
	Right cheek	0.992	0.049	0.134	0.071	1.041	1.126	1.063	1.197
	Right tilted	0.883	0.040	0.160	0.057	0.923	1.043	0.940	1.100
DC_71A_n66A	Left cheek	0.603	0.131	0.214	0.189	0.734	0.817	0.792	1.006
	Left tilted	0.367	0.091	0.261	0.131	0.458	0.628	0.498	0.759
	Right cheek	0.501	0.049	0.134	0.071	0.550	0.635	0.572	0.706
	Right tilted	0.382	0.040	0.160	0.057	0.422	0.542	0.439	0.599
DC_30A-12A_n66A	Left cheek	0.596	0.131	0.214	0.189	0.727	0.810	0.785	0.999
	Left tilted	0.333	0.091	0.261	0.131	0.424	0.594	0.464	0.725
	Right cheek	0.893	0.049	0.134	0.071	0.942	1.027	0.964	1.098
	Right tilted	0.421	0.040	0.160	0.057	0.461	0.581	0.478	0.638
DC_2A_n71A	Left cheek	0.988	0.131	0.214	0.189	1.119	1.202	1.177	1.391
	Left tilted	0.483	0.091	0.261	0.131	0.574	0.744	0.614	0.875
	Right cheek	0.852	0.049	0.134	0.071	0.901	0.986	0.923	1.057
	Right tilted	0.715	0.040	0.160	0.057	0.755	0.875	0.772	0.932
DC_7A_n71A	Left cheek	0.506	0.131	0.214	0.189	0.637	0.720	0.695	0.909
	Left tilted	0.306	0.091	0.261	0.131	0.397	0.567	0.437	0.698
	Right cheek	1.109	0.049	0.134	0.071	1.158	1.243	1.180	1.314
	Right tilted	0.434	0.040	0.160	0.057	0.474	0.594	0.491	0.651
DC_66A_n71A	Left cheek	0.917	0.131	0.214	0.189	1.048	1.131	1.106	1.320
	Left tilted	0.424	0.091	0.261	0.131	0.515	0.685	0.555	0.816
	Right cheek	0.579	0.049	0.134	0.071	0.628	0.713	0.650	0.784
	Right tilted	0.471	0.040	0.160	0.057	0.511	0.631	0.528	0.688
DC_2A_n77A	Left cheek	0.611	0.131	0.214	0.189	0.742	0.825	0.800	1.014
	Left tilted	0.384	0.091	0.261	0.131	0.475	0.645	0.515	0.776
	Right cheek	0.213	0.049	0.134	0.071	0.262	0.347	0.284	0.418
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_5A_n77A	Left cheek	1.023	0.131	0.214	0.189	1.154	1.237	1.212	1.426
	Left tilted	0.731	0.091	0.261	0.131	0.822	0.992	0.862	1.123
	Right cheek	0.724	0.049	0.134	0.071	0.773	0.858	0.795	0.929
	Right tilted	0.653	0.040	0.160	0.057	0.693	0.813	0.710	0.870
DC_7A_n77A	Left cheek	0.843	0.131	0.214	0.189	0.974	1.057	1.032	1.246
	Left tilted	0.474	0.091	0.261	0.131	0.565	0.735	0.605	0.866
	Right cheek	0.947	0.049	0.134	0.071	0.996	1.081	1.018	1.152
	Right tilted	0.309	0.040	0.160	0.057	0.349	0.469	0.366	0.526
DC_12A_n77A	Left cheek	0.831	0.131	0.214	0.189	0.962	1.045	1.020	1.234
	Left tilted	0.543	0.091	0.261	0.131	0.634	0.804	0.674	0.935
	Right cheek	0.601	0.049	0.134	0.071	0.650	0.735	0.672	0.806
	Right tilted	0.452	0.040	0.160	0.057	0.492	0.612	0.509	0.669
DC_13A_n77A	Left cheek	1.060	0.131	0.214	0.189	1.191	1.274	1.249	1.463
	Left tilted	0.815	0.091	0.261	0.131	0.906	1.076	0.946	1.207
	Right cheek	0.978	0.049	0.134	0.071	1.027	1.112	1.049	1.183



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	Right tilted	0.894	0.040	0.160	0.057	0.934	1.054	0.951	1.111
DC_25A_n77A	Left cheek	0.611	0.131	0.214	0.189	0.742	0.825	0.800	1.014
	Left tilted	0.384	0.091	0.261	0.131	0.475	0.645	0.515	0.776
	Right cheek	0.213	0.049	0.134	0.071	0.262	0.347	0.284	0.418
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_66A_n77A	Left cheek	0.612	0.131	0.214	0.189	0.743	0.826	0.801	1.015
	Left tilted	0.386	0.091	0.261	0.131	0.477	0.647	0.517	0.778
	Right cheek	0.206	0.049	0.134	0.071	0.255	0.340	0.277	0.411
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_71A_n77A	Left cheek	0.793	0.131	0.214	0.189	0.924	1.007	0.982	1.196
	Left tilted	0.554	0.091	0.261	0.131	0.645	0.815	0.685	0.946
	Right cheek	0.487	0.049	0.134	0.071	0.536	0.621	0.558	0.692
	Right tilted	0.393	0.040	0.160	0.057	0.433	0.553	0.450	0.610
DC_2A_n78A	Left cheek	0.611	0.131	0.214	0.189	0.742	0.825	0.800	1.014
	Left tilted	0.384	0.091	0.261	0.131	0.475	0.645	0.515	0.776
	Right cheek	0.213	0.049	0.134	0.071	0.262	0.347	0.284	0.418
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_4A_n78A	Left cheek	0.612	0.131	0.214	0.189	0.743	0.826	0.801	1.015
	Left tilted	0.386	0.091	0.261	0.131	0.477	0.647	0.517	0.778
	Right cheek	0.206	0.049	0.134	0.071	0.255	0.340	0.277	0.411
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_5A_n78A	Left cheek	1.023	0.131	0.214	0.189	1.154	1.237	1.212	1.426
	Left tilted	0.731	0.091	0.261	0.131	0.822	0.992	0.862	1.123
	Right cheek	0.724	0.049	0.134	0.071	0.773	0.858	0.795	0.929
	Right tilted	0.653	0.040	0.160	0.057	0.693	0.813	0.710	0.870
DC_7A_n78A	Left cheek	0.843	0.131	0.214	0.189	0.974	1.057	1.032	1.246
	Left tilted	0.474	0.091	0.261	0.131	0.565	0.735	0.605	0.866
	Right cheek	0.947	0.049	0.134	0.071	0.996	1.081	1.018	1.152
	Right tilted	0.309	0.040	0.160	0.057	0.349	0.469	0.366	0.526
DC_12A_n78A	Left cheek	0.831	0.131	0.214	0.189	0.962	1.045	1.020	1.234
	Left tilted	0.543	0.091	0.261	0.131	0.634	0.804	0.674	0.935
	Right cheek	0.601	0.049	0.134	0.071	0.650	0.735	0.672	0.806
	Right tilted	0.452	0.040	0.160	0.057	0.492	0.612	0.509	0.669
DC_13A_n78A	Left cheek	1.060	0.131	0.214	0.189	1.191	1.274	1.249	1.463
	Left tilted	0.815	0.091	0.261	0.131	0.906	1.076	0.946	1.207
	Right cheek	0.978	0.049	0.134	0.071	1.027	1.112	1.049	1.183
	Right tilted	0.894	0.040	0.160	0.057	0.934	1.054	0.951	1.111
DC_25A_n78A	Left cheek	0.611	0.131	0.214	0.189	0.742	0.825	0.800	1.014
	Left tilted	0.384	0.091	0.261	0.131	0.475	0.645	0.515	0.776
	Right cheek	0.213	0.049	0.134	0.071	0.262	0.347	0.284	0.418
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_66A_n78A	Left cheek	0.612	0.131	0.214	0.189	0.743	0.826	0.801	1.015
	Left tilted	0.386	0.091	0.261	0.131	0.477	0.647	0.517	0.778
	Right cheek	0.206	0.049	0.134	0.071	0.255	0.340	0.277	0.411
	Right tilted	0.180	0.040	0.160	0.057	0.220	0.340	0.237	0.397
DC_71A_n78A	Left cheek	0.793	0.131	0.214	0.189	0.924	1.007	0.982	1.196
	Left tilted	0.554	0.091	0.261	0.131	0.645	0.815	0.685	0.946
	Right cheek	0.487	0.049	0.134	0.071	0.536	0.621	0.558	0.692
	Right tilted	0.393	0.040	0.160	0.057	0.433	0.553	0.450	0.610



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Sum Body Worn

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.462	0.105	0.084	0.070	0.567	0.546	0.532	0.616
	Back side	0.743	0.147	0.307	0.093	0.890	1.050	0.836	1.143
GSM1900	Front side	0.478	0.105	0.084	0.070	0.583	0.562	0.548	0.632
	Back side	0.606	0.147	0.307	0.093	0.753	0.913	0.699	1.006
WB2	Front side	0.464	0.105	0.084	0.070	0.569	0.548	0.534	0.618
	Back side	0.519	0.147	0.307	0.093	0.666	0.826	0.612	0.919
WB4	Front side	0.400	0.105	0.084	0.070	0.505	0.484	0.470	0.554
	Back side	0.558	0.147	0.307	0.093	0.705	0.865	0.651	0.958
WB5	Front side	0.327	0.105	0.084	0.070	0.432	0.411	0.397	0.481
	Back side	0.427	0.147	0.307	0.093	0.574	0.734	0.520	0.827
LTE B5	Front side	0.646	0.105	0.084	0.070	0.751	0.730	0.716	0.800
	Back side	0.764	0.147	0.307	0.093	0.911	1.071	0.857	1.164
LTE B7	Front side	0.408	0.105	0.084	0.070	0.513	0.492	0.478	0.562
	Back side	0.773	0.147	0.307	0.093	0.920	1.080	0.866	1.173
LTE B12(17)	Front side	0.293	0.105	0.084	0.070	0.398	0.377	0.363	0.447
	Back side	0.407	0.147	0.307	0.093	0.554	0.714	0.500	0.807
LTE B13	Front side	0.431	0.105	0.084	0.070	0.536	0.515	0.501	0.585
	Back side	0.615	0.147	0.307	0.093	0.762	0.922	0.708	1.015
LTE B25(2)	Front side	0.328	0.105	0.084	0.070	0.433	0.412	0.398	0.482
	Back side	0.567	0.147	0.307	0.093	0.714	0.874	0.660	0.967
LTE B26	Front side	0.258	0.105	0.084	0.070	0.363	0.342	0.328	0.412
	Back side	0.438	0.147	0.307	0.093	0.585	0.745	0.531	0.838
LTE B30	Front side	0.338	0.105	0.084	0.070	0.443	0.422	0.408	0.492
	Back side	0.525	0.147	0.307	0.093	0.672	0.832	0.618	0.925
LTE B41(38)	Front side	0.419	0.105	0.084	0.070	0.524	0.503	0.489	0.573
	Back side	0.775	0.147	0.307	0.093	0.922	1.082	0.868	1.175
LTE B42	Front side	0.181	0.105	0.084	0.070	0.286	0.265	0.251	0.335
	Back side	0.279	0.147	0.307	0.093	0.426	0.586	0.372	0.679
LTE B66(4)	Front side	0.492	0.105	0.084	0.070	0.597	0.576	0.562	0.646
	Back side	0.557	0.147	0.307	0.093	0.704	0.864	0.650	0.957
LTE B71	Front side	0.229	0.105	0.084	0.070	0.334	0.313	0.299	0.383
	Back side	0.410	0.147	0.307	0.093	0.557	0.717	0.503	0.810
N2	Front side	0.127	0.105	0.084	0.070	0.232	0.211	0.197	0.281
	Back side	0.270	0.147	0.307	0.093	0.417	0.577	0.363	0.670
N5	Front side	0.586	0.105	0.084	0.070	0.691	0.670	0.656	0.740
	Back side	0.745	0.147	0.307	0.093	0.892	1.052	0.838	1.145
N7	Front side	0.323	0.105	0.084	0.070	0.428	0.407	0.393	0.477
	Back side	0.643	0.147	0.307	0.093	0.790	0.950	0.736	1.043
N25	Front side	0.380	0.105	0.084	0.070	0.485	0.464	0.450	0.534
	Back side	0.439	0.147	0.307	0.093	0.586	0.746	0.532	0.839
N41(38)	Front side	0.461	0.105	0.084	0.070	0.566	0.545	0.531	0.615
	Back side	0.711	0.147	0.307	0.093	0.858	1.018	0.804	1.111
N66	Front side	0.480	0.105	0.084	0.070	0.585	0.564	0.550	0.634



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	Back side	0.536	0.147	0.307	0.093	0.683	0.843	0.629	0.936
N71	Front side	0.255	0.105	0.084	0.070	0.360	0.339	0.325	0.409
	Back side	0.384	0.147	0.307	0.093	0.531	0.691	0.477	0.784
N77(78)	Front side	0.255	0.105	0.084	0.070	0.360	0.339	0.325	0.409
	Back side	0.507	0.147	0.307	0.093	0.654	0.814	0.600	0.907

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A-7A	Front side	0.585	0.105	0.084	0.070	0.690	0.669	0.655	0.739
	Back side	1.055	0.147	0.307	0.093	1.202	1.362	1.148	1.455
CA_5A-7A	Front side	0.581	0.105	0.084	0.070	0.686	0.665	0.651	0.735
	Back side	0.871	0.147	0.307	0.093	1.018	1.178	0.964	1.271
CA_4A-7A	Front side	0.749	0.105	0.084	0.070	0.854	0.833	0.819	0.903
	Back side	1.045	0.147	0.307	0.093	1.192	1.352	1.138	1.445
CA_4A-12A	Front side	0.785	0.105	0.084	0.070	0.890	0.869	0.855	0.939
	Back side	0.964	0.147	0.307	0.093	1.111	1.271	1.057	1.364
CA_7A-12A	Front side	0.550	0.105	0.084	0.070	0.655	0.634	0.620	0.704
	Back side	0.895	0.147	0.307	0.093	1.042	1.202	0.988	1.295
CA_4A-17A	Front side	0.785	0.105	0.084	0.070	0.890	0.869	0.855	0.939
	Back side	0.964	0.147	0.307	0.093	1.111	1.271	1.057	1.364
CA_7A-66A	Front side	0.749	0.105	0.084	0.070	0.854	0.833	0.819	0.903
	Back side	1.045	0.147	0.307	0.093	1.192	1.352	1.138	1.445
CA_12A-66A	Front side	0.785	0.105	0.084	0.070	0.890	0.869	0.855	0.939
	Back side	0.964	0.147	0.307	0.093	1.111	1.271	1.057	1.364

Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
DC_5A_n2A	Front side	0.556	0.105	0.084	0.070	0.661	0.640	0.626	0.710
	Back side	0.833	0.147	0.307	0.093	0.980	1.140	0.926	1.233
DC_7A_n2A/DC_7A-5A_n2A	Front side	0.489	0.105	0.084	0.070	0.594	0.573	0.559	0.643
	Back side	0.938	0.147	0.307	0.093	1.085	1.245	1.031	1.338
DC_12A_n2A	Front side	0.525	0.105	0.084	0.070	0.630	0.609	0.595	0.679
	Back side	0.639	0.147	0.307	0.093	0.786	0.946	0.732	1.039
DC_13A_n2A	Front side	0.663	0.105	0.084	0.070	0.768	0.747	0.733	0.817
	Back side	0.847	0.147	0.307	0.093	0.994	1.154	0.940	1.247
DC_71A_n2A	Front side	0.461	0.105	0.084	0.070	0.566	0.545	0.531	0.615
	Back side	0.860	0.147	0.307	0.093	1.007	1.167	0.953	1.260
DC_66A_n2A	Front side	0.307	0.105	0.084	0.070	0.412	0.391	0.377	0.461
	Back side	0.689	0.147	0.307	0.093	0.836	0.996	0.782	1.089
DC_2A_n5A	Front side	0.622	0.105	0.084	0.070	0.727	0.706	0.692	0.776
	Back side	0.940	0.147	0.307	0.093	1.087	1.247	1.033	1.340
DC_7A_n5A	Front side	0.551	0.105	0.084	0.070	0.656	0.635	0.621	0.705
	Back side	0.861	0.147	0.307	0.093	1.008	1.168	0.954	1.261
DC_66A_n5A	Front side	0.786	0.105	0.084	0.070	0.891	0.870	0.856	0.940
	Back side	0.930	0.147	0.307	0.093	1.077	1.237	1.023	1.330



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DC_2A_n41A	Front side	0.673	0.105	0.084	0.070	0.778	0.757	0.743	0.827
	Back side	1.190	0.147	0.307	0.093	1.337	1.497	1.283	1.590
DC_4A_n41A	Front side	0.536	0.105	0.084	0.070	0.641	0.620	0.606	0.690
	Back side	0.950	0.147	0.307	0.093	1.097	1.257	1.043	1.350
DC_5A_n41A	Front side	0.785	0.105	0.084	0.070	0.890	0.869	0.855	0.939
	Back side	1.094	0.147	0.307	0.093	1.241	1.401	1.187	1.494
DC_12A_n41A	Front side	0.754	0.105	0.084	0.070	0.859	0.838	0.824	0.908
	Back side	1.118	0.147	0.307	0.093	1.265	1.425	1.211	1.518
DC_25A_n41A	Front side	0.673	0.105	0.084	0.070	0.778	0.757	0.743	0.827
	Back side	1.190	0.147	0.307	0.093	1.337	1.497	1.283	1.590
DC_66A_n41A	Front side	0.536	0.105	0.084	0.070	0.641	0.620	0.606	0.690
	Back side	0.950	0.147	0.307	0.093	1.097	1.257	1.043	1.350
DC_71A_n41A	Front side	0.690	0.105	0.084	0.070	0.795	0.774	0.760	0.844
	Back side	1.121	0.147	0.307	0.093	1.268	1.428	1.214	1.521
DC_2A_n66A/DC_2A-2A_n66A	Front side	0.692	0.105	0.084	0.070	0.797	0.776	0.762	0.846
	Back side	1.015	0.147	0.307	0.093	1.162	1.322	1.108	1.415
DC_5A_n66A	Front side	0.804	0.105	0.084	0.070	0.909	0.888	0.874	0.958
	Back side	0.919	0.147	0.307	0.093	1.066	1.226	1.012	1.319
DC_7A_n66A	Front side	0.737	0.105	0.084	0.070	0.842	0.821	0.807	0.891
	Back side	1.024	0.147	0.307	0.093	1.171	1.331	1.117	1.424
DC_12A_n66A	Front side	0.773	0.105	0.084	0.070	0.878	0.857	0.843	0.927
	Back side	0.943	0.147	0.307	0.093	1.090	1.250	1.036	1.343
DC_13A_n66A	Front side	0.911	0.105	0.084	0.070	1.016	0.995	0.981	1.065
	Back side	1.151	0.147	0.307	0.093	1.298	1.458	1.244	1.551
DC_71A_n66A	Front side	0.709	0.105	0.084	0.070	0.814	0.793	0.779	0.863
	Back side	0.946	0.147	0.307	0.093	1.093	1.253	1.039	1.346
DC_30A-12A_n66A	Front side	0.818	0.105	0.084	0.070	0.923	0.902	0.888	0.972
	Back side	1.061	0.147	0.307	0.093	1.208	1.368	1.154	1.461
DC_2A_n71A	Front side	0.583	0.105	0.084	0.070	0.688	0.667	0.653	0.737
	Back side	0.951	0.147	0.307	0.093	1.098	1.258	1.044	1.351
DC_7A_n71A	Front side	0.512	0.105	0.084	0.070	0.617	0.596	0.582	0.666
	Back side	0.872	0.147	0.307	0.093	1.019	1.179	0.965	1.272
DC_66A_n71A	Front side	0.747	0.105	0.084	0.070	0.852	0.831	0.817	0.901
	Back side	0.941	0.147	0.307	0.093	1.088	1.248	1.034	1.341
DC_2A_n77A	Front side	0.492	0.105	0.084	0.070	0.597	0.576	0.562	0.646
	Back side	0.986	0.147	0.307	0.093	1.133	1.293	1.079	1.386
DC_5A_n77A	Front side	0.604	0.105	0.084	0.070	0.709	0.688	0.674	0.758
	Back side	0.890	0.147	0.307	0.093	1.037	1.197	0.983	1.290
DC_7A_n77A	Front side	0.537	0.105	0.084	0.070	0.642	0.621	0.607	0.691
	Back side	0.995	0.147	0.307	0.093	1.142	1.302	1.088	1.395
DC_12A_n77A	Front side	0.573	0.105	0.084	0.070	0.678	0.657	0.643	0.727
	Back side	0.914	0.147	0.307	0.093	1.061	1.221	1.007	1.314
DC_13A_n77A	Front side	0.711	0.105	0.084	0.070	0.816	0.795	0.781	0.865
	Back side	1.122	0.147	0.307	0.093	1.269	1.429	1.215	1.522
DC_25A_n77A	Front side	0.492	0.105	0.084	0.070	0.597	0.576	0.562	0.646
	Back side	0.986	0.147	0.307	0.093	1.133	1.293	1.079	1.386
DC_66A_n77A	Front side	0.355	0.105	0.084	0.070	0.460	0.439	0.425	0.509
	Back side	0.746	0.147	0.307	0.093	0.893	1.053	0.839	1.146
DC_71A_n77A	Front side	0.509	0.105	0.084	0.070	0.614	0.593	0.579	0.663
	Back side	0.917	0.147	0.307	0.093	1.064	1.224	1.010	1.317



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DC_2A_n78A	Front side	0.492	0.105	0.084	0.070	0.597	0.576	0.562	0.646
	Back side	0.986	0.147	0.307	0.093	1.133	1.293	1.079	1.386
DC_4A_n78A	Front side	0.355	0.105	0.084	0.070	0.460	0.439	0.425	0.509
	Back side	0.746	0.147	0.307	0.093	0.893	1.053	0.839	1.146
DC_5A_n78A	Front side	0.604	0.105	0.084	0.070	0.709	0.688	0.674	0.758
	Back side	0.890	0.147	0.307	0.093	1.037	1.197	0.983	1.290
DC_7A_n78A	Front side	0.537	0.105	0.084	0.070	0.642	0.621	0.607	0.691
	Back side	0.995	0.147	0.307	0.093	1.142	1.302	1.088	1.395
DC_12A_n78A	Front side	0.573	0.105	0.084	0.070	0.678	0.657	0.643	0.727
	Back side	0.914	0.147	0.307	0.093	1.061	1.221	1.007	1.314
DC_13A_n78A	Front side	0.711	0.105	0.084	0.070	0.816	0.795	0.781	0.865
	Back side	1.122	0.147	0.307	0.093	1.269	1.429	1.215	1.522
DC_25A_n78A	Front side	0.492	0.105	0.084	0.070	0.597	0.576	0.562	0.646
	Back side	0.986	0.147	0.307	0.093	1.133	1.293	1.079	1.386
DC_66A_n78A	Front side	0.355	0.105	0.084	0.070	0.460	0.439	0.425	0.509
	Back side	0.746	0.147	0.307	0.093	0.893	1.053	0.839	1.146
DC_71A_n78A	Front side	0.509	0.105	0.084	0.070	0.614	0.593	0.579	0.663
	Back side	0.917	0.147	0.307	0.093	1.064	1.224	1.010	1.317

Sum_Hotspot

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.462	0.105	0.088	0.070	0.567	0.550	0.532	0.620
	Back side	0.743	0.147	0.262	0.093	0.890	1.005	0.836	1.098
	Left side	0.340	0.022	0.034	0.016	0.362	0.374	0.356	0.390
	Right side	0.127	0.131	0.119	0.088	0.258	0.246	0.215	0.334
	Top side	0.789	0.099	0.209	0.062	0.888	0.998	0.851	1.060
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Front side	0.478	0.105	0.088	0.070	0.583	0.566	0.548	0.636
	Back side	0.606	0.147	0.262	0.093	0.753	0.868	0.699	0.961
	Left side	0.000	0.022	0.034	0.016	0.022	0.034	0.016	0.050
	Right side	0.498	0.131	0.119	0.088	0.629	0.617	0.586	0.705
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WB2	Front side	0.464	0.105	0.088	0.070	0.569	0.552	0.534	0.622
	Back side	0.519	0.147	0.262	0.093	0.666	0.781	0.612	0.874
	Left side	0.000	0.022	0.034	0.016	0.022	0.034	0.016	0.050
	Right side	0.436	0.131	0.119	0.088	0.567	0.555	0.524	0.643
	Top side	0.231	0.099	0.209	0.062	0.330	0.440	0.293	0.502
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WB4	Front side	0.400	0.105	0.088	0.070	0.505	0.488	0.470	0.558
	Back side	0.558	0.147	0.262	0.093	0.705	0.820	0.651	0.913
	Left side	0.000	0.022	0.034	0.016	0.022	0.034	0.016	0.050
	Right side	0.436	0.131	0.119	0.088	0.567	0.555	0.524	0.643
	Top side	0.210	0.099	0.209	0.062	0.309	0.419	0.272	0.481
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Shenzhen Branch Inspection & Testing Services Laboratory

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	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WB5	Front side	0.327	0.105	0.088	0.070	0.432	0.415	0.397	0.485
	Back side	0.427	0.147	0.262	0.093	0.574	0.689	0.520	0.782
	Left side	0.259	0.022	0.034	0.016	0.281	0.293	0.275	0.309
	Right side	0.104	0.131	0.119	0.088	0.235	0.223	0.192	0.311
	Top side	0.423	0.099	0.209	0.062	0.522	0.632	0.485	0.694
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Front side	0.646	0.105	0.088	0.070	0.751	0.734	0.716	0.804
	Back side	0.764	0.147	0.262	0.093	0.911	1.026	0.857	1.119
	Left side	0.427	0.022	0.034	0.016	0.449	0.461	0.443	0.477
	Right side	0.204	0.131	0.119	0.088	0.335	0.323	0.292	0.411
	Top side	0.603	0.099	0.209	0.062	0.702	0.812	0.665	0.874
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	0.408	0.105	0.088	0.070	0.513	0.496	0.478	0.566
	Back side	0.773	0.147	0.262	0.093	0.920	1.035	0.866	1.128
	Left side	0.535	0.022	0.034	0.016	0.557	0.569	0.551	0.585
	Right side	0.000	0.131	0.119	0.088	0.131	0.119	0.088	0.207
	Top side	0.130	0.099	0.209	0.062	0.229	0.339	0.192	0.401
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12(17)	Front side	0.293	0.105	0.088	0.070	0.398	0.381	0.363	0.451
	Back side	0.407	0.147	0.262	0.093	0.554	0.669	0.500	0.762
	Left side	0.345	0.022	0.034	0.016	0.367	0.379	0.361	0.395
	Right side	0.211	0.131	0.119	0.088	0.342	0.330	0.299	0.418
	Top side	0.465	0.099	0.209	0.062	0.564	0.674	0.527	0.736
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Front side	0.431	0.105	0.088	0.070	0.536	0.519	0.501	0.589
	Back side	0.615	0.147	0.262	0.093	0.762	0.877	0.708	0.970
	Left side	0.473	0.022	0.034	0.016	0.495	0.507	0.489	0.523
	Right side	0.184	0.131	0.119	0.088	0.315	0.303	0.272	0.391
	Top side	0.544	0.099	0.209	0.062	0.643	0.753	0.606	0.815
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B25(2)	Front side	0.328	0.105	0.088	0.070	0.433	0.416	0.398	0.486
	Back side	0.567	0.147	0.262	0.093	0.714	0.829	0.660	0.922
	Left side	0.035	0.022	0.034	0.016	0.057	0.069	0.051	0.085
	Right side	0.439	0.131	0.119	0.088	0.570	0.558	0.527	0.646
	Top side	0.173	0.099	0.209	0.062	0.272	0.382	0.235	0.444
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
LTE B26	Front side	0.258	0.105	0.088	0.070	0.363	0.346	0.328	0.416
	Back side	0.438	0.147	0.262	0.093	0.585	0.700	0.531	0.793
	Left side	0.178	0.022	0.034	0.016	0.200	0.212	0.194	0.228
	Right side	0.062	0.131	0.119	0.088	0.193	0.181	0.150	0.269
	Top side	0.372	0.099	0.209	0.062	0.471	0.581	0.434	0.643
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B30	Front side	0.338	0.105	0.088	0.070	0.443	0.426	0.408	0.496
	Back side	0.525	0.147	0.262	0.093	0.672	0.787	0.618	0.880



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	Left side	0.507	0.022	0.034	0.016	0.529	0.541	0.523	0.557
	Right side	0.000	0.131	0.119	0.088	0.131	0.119	0.088	0.207
	Top side	0.195	0.099	0.209	0.062	0.294	0.404	0.257	0.466
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41(38)	Front side	0.419	0.105	0.088	0.070	0.524	0.507	0.489	0.577
	Back side	0.775	0.147	0.262	0.093	0.922	1.037	0.868	1.130
	Left side	0.488	0.022	0.034	0.016	0.510	0.522	0.504	0.538
	Right side	0.000	0.131	0.119	0.088	0.131	0.119	0.088	0.207
	Top side	0.092	0.099	0.209	0.062	0.191	0.301	0.154	0.363
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B42	Front side	0.181	0.105	0.088	0.070	0.286	0.269	0.251	0.339
	Back side	0.279	0.147	0.262	0.093	0.426	0.541	0.372	0.634
	Left side	0.000	0.022	0.034	0.016	0.022	0.034	0.016	0.050
	Right side	0.458	0.131	0.119	0.088	0.589	0.577	0.546	0.665
	Top side	0.099	0.099	0.209	0.062	0.198	0.308	0.161	0.370
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66(4)	Front side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Back side	0.557	0.147	0.262	0.093	0.704	0.819	0.650	0.912
	Left side	0.032	0.022	0.034	0.016	0.054	0.066	0.048	0.082
	Right side	0.490	0.131	0.119	0.088	0.621	0.609	0.578	0.697
	Top side	0.213	0.099	0.209	0.062	0.312	0.422	0.275	0.484
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
LTE B71	Front side	0.229	0.105	0.088	0.070	0.334	0.317	0.299	0.387
	Back side	0.410	0.147	0.262	0.093	0.557	0.672	0.503	0.765
	Left side	0.331	0.022	0.034	0.016	0.353	0.365	0.347	0.381
	Right side	0.159	0.131	0.119	0.088	0.290	0.278	0.247	0.366
	Top side	0.340	0.099	0.209	0.062	0.439	0.549	0.402	0.611
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N2	Front side	0.232	0.105	0.088	0.070	0.337	0.320	0.302	0.390
	Back side	0.450	0.147	0.262	0.093	0.597	0.712	0.543	0.805
	Left side	0.052	0.022	0.034	0.016	0.074	0.086	0.068	0.102
	Right side	0.271	0.131	0.119	0.088	0.402	0.390	0.359	0.478
	Top side	0.156	0.099	0.209	0.062	0.255	0.365	0.218	0.427
	Bottom side	0.304	0.000	0.000	0.000	0.304	0.304	0.304	0.304
N5	Front side	0.586	0.105	0.088	0.070	0.691	0.674	0.656	0.744
	Back side	0.745	0.147	0.262	0.093	0.892	1.007	0.838	1.100
	Left side	0.459	0.022	0.034	0.016	0.481	0.493	0.475	0.509
	Right side	0.150	0.131	0.119	0.088	0.281	0.269	0.238	0.357
	Top side	0.690	0.099	0.209	0.062	0.789	0.899	0.752	0.961
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N7	Front side	0.323	0.105	0.088	0.070	0.428	0.411	0.393	0.481
	Back side	0.643	0.147	0.262	0.093	0.790	0.905	0.736	0.998
	Left side	0.408	0.022	0.034	0.016	0.430	0.442	0.424	0.458
	Right side	0.000	0.131	0.119	0.088	0.131	0.119	0.088	0.207
	Top side	0.078	0.099	0.209	0.062	0.177	0.287	0.140	0.349
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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	side								
N25	Front side	0.380	0.105	0.088	0.070	0.485	0.468	0.450	0.538
	Back side	0.439	0.147	0.262	0.093	0.586	0.701	0.532	0.794
	Left side	0.000	0.022	0.034	0.016	0.022	0.034	0.016	0.050
	Right side	0.429	0.131	0.119	0.088	0.560	0.548	0.517	0.636
	Top side	0.185	0.099	0.209	0.062	0.284	0.394	0.247	0.456
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41(38)	Front side	0.461	0.105	0.088	0.070	0.566	0.549	0.531	0.619
	Back side	0.711	0.147	0.262	0.093	0.858	0.973	0.804	1.066
	Left side	0.599	0.022	0.034	0.016	0.621	0.633	0.615	0.649
	Right side	0.000	0.131	0.119	0.088	0.131	0.119	0.088	0.207
	Top side	0.118	0.099	0.209	0.062	0.217	0.327	0.180	0.389
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.480	0.105	0.088	0.070	0.585	0.568	0.550	0.638
	Back side	0.536	0.147	0.262	0.093	0.683	0.798	0.629	0.891
	Left side	0.039	0.022	0.034	0.016	0.061	0.073	0.055	0.089
	Right side	0.498	0.131	0.119	0.088	0.629	0.617	0.586	0.705
	Top side	0.253	0.099	0.209	0.062	0.352	0.462	0.315	0.524
	Bottom side	0.405	0.000	0.000	0.000	0.405	0.405	0.405	0.405
N71	Front side	0.255	0.105	0.088	0.070	0.360	0.343	0.325	0.413
	Back side	0.384	0.147	0.262	0.093	0.531	0.646	0.477	0.739
	Left side	0.375	0.022	0.034	0.016	0.397	0.409	0.391	0.425
	Right side	0.151	0.131	0.119	0.088	0.282	0.270	0.239	0.358
	Top side	0.372	0.099	0.209	0.062	0.471	0.581	0.434	0.643
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77(78)	Front side	0.255	0.105	0.088	0.070	0.360	0.343	0.325	0.413
	Back side	0.507	0.147	0.262	0.093	0.654	0.769	0.600	0.862
	Left side	0.115	0.022	0.034	0.016	0.137	0.149	0.131	0.165
	Right side	0.454	0.131	0.119	0.088	0.585	0.573	0.542	0.661
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A-7A	Front side	0.585	0.105	0.088	0.070	0.690	0.673	0.655	0.743
	Back side	1.055	0.147	0.262	0.093	1.202	1.317	1.148	1.410
	Left side	0.338	0.022	0.034	0.016	0.360	0.372	0.354	0.388
	Right side	0.439	0.131	0.119	0.088	0.570	0.558	0.527	0.646
	Top side	0.255	0.099	0.209	0.062	0.354	0.464	0.317	0.526
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_5A-7A	Front side	0.581	0.105	0.088	0.070	0.686	0.669	0.651	0.739
	Back side	0.871	0.147	0.262	0.093	1.018	1.133	0.964	1.226
	Left side	0.552	0.105	0.088	0.070	0.657	0.640	0.622	0.710
	Right side	0.102	0.147	0.262	0.093	0.249	0.364	0.195	0.457



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	Top side	0.407	0.099	0.209	0.062	0.506	0.616	0.469	0.678
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_4A-7A	Front side	0.749	0.105	0.088	0.070	0.854	0.837	0.819	0.907
	Back side	1.045	0.147	0.262	0.093	1.192	1.307	1.138	1.400
	Left side	0.338	0.105	0.088	0.070	0.443	0.426	0.408	0.496
	Right side	0.490	0.147	0.262	0.093	0.637	0.752	0.583	0.845
	Top side	0.295	0.099	0.209	0.062	0.394	0.504	0.357	0.566
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_4A-12A	Front side	0.785	0.105	0.088	0.070	0.890	0.873	0.855	0.943
	Back side	0.964	0.147	0.262	0.093	1.111	1.226	1.057	1.319
	Left side	0.345	0.105	0.088	0.070	0.450	0.433	0.415	0.503
	Right side	0.701	0.147	0.262	0.093	0.848	0.963	0.794	1.056
	Top side	0.678	0.099	0.209	0.062	0.777	0.887	0.740	0.949
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_7A-12A	Front side	0.550	0.105	0.088	0.070	0.655	0.638	0.620	0.708
	Back side	0.895	0.147	0.262	0.093	1.042	1.157	0.988	1.250
	Left side	0.683	0.105	0.088	0.070	0.788	0.771	0.753	0.841
	Right side	0.211	0.147	0.262	0.093	0.358	0.473	0.304	0.566
	Top side	0.547	0.099	0.209	0.062	0.646	0.756	0.609	0.818
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_4A-17A	Front side	0.785	0.105	0.088	0.070	0.890	0.873	0.855	0.943
	Back side	0.964	0.147	0.262	0.093	1.111	1.226	1.057	1.319
	Left side	0.345	0.105	0.088	0.070	0.450	0.433	0.415	0.503
	Right side	0.701	0.147	0.262	0.093	0.848	0.963	0.794	1.056
	Top side	0.678	0.099	0.209	0.062	0.777	0.887	0.740	0.949
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_7A-66A	Front side	0.749	0.105	0.088	0.070	0.854	0.837	0.819	0.907
	Back side	1.045	0.147	0.262	0.093	1.192	1.307	1.138	1.400
	Left side	0.338	0.105	0.088	0.070	0.443	0.426	0.408	0.496
	Right side	0.490	0.147	0.262	0.093	0.637	0.752	0.583	0.845
	Top side	0.295	0.099	0.209	0.062	0.394	0.504	0.357	0.566
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CA_12A-66A	Front side	0.785	0.105	0.088	0.070	0.890	0.873	0.855	0.943
	Back side	0.964	0.147	0.262	0.093	1.111	1.226	1.057	1.319
	Left side	0.345	0.105	0.088	0.070	0.450	0.433	0.415	0.503
	Right side	0.701	0.147	0.262	0.093	0.848	0.963	0.794	1.056
	Top side	0.678	0.099	0.209	0.062	0.777	0.887	0.740	0.949
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
DC_5A_n2A	Front side	0.556	0.105	0.088	0.070	0.661	0.644	0.626	0.714
	Back side	0.833	0.147	0.262	0.093	0.980	1.095	0.926	1.188



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	Left side	0.214	0.022	0.034	0.016	0.236	0.248	0.230	0.264
	Right side	0.373	0.131	0.119	0.088	0.504	0.492	0.461	0.580
	Top side	0.481	0.099	0.209	0.062	0.580	0.690	0.543	0.752
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n2A/DC_7A-5A_n2A	Front side	0.489	0.105	0.088	0.070	0.594	0.577	0.559	0.647
	Back side	0.938	0.147	0.262	0.093	1.085	1.200	1.031	1.293
	Left side	0.390	0.105	0.088	0.070	0.495	0.478	0.460	0.548
	Right side	0.271	0.147	0.262	0.093	0.418	0.533	0.364	0.626
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.304	0.000	0.000	0.000	0.304	0.304	0.304	0.304
DC_12A_n2A	Front side	0.525	0.105	0.088	0.070	0.630	0.613	0.595	0.683
	Back side	0.857	0.147	0.262	0.093	1.004	1.119	0.950	1.212
	Left side	0.345	0.105	0.088	0.070	0.450	0.433	0.415	0.503
	Right side	0.482	0.147	0.262	0.093	0.629	0.744	0.575	0.837
	Top side	0.621	0.099	0.209	0.062	0.720	0.830	0.683	0.892
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_13A_n2A	Front side	0.663	0.105	0.088	0.070	0.768	0.751	0.733	0.821
	Back side	1.065	0.147	0.262	0.093	1.212	1.327	1.158	1.420
	Left side	0.473	0.105	0.088	0.070	0.578	0.561	0.543	0.631
	Right side	0.455	0.147	0.262	0.093	0.602	0.717	0.548	0.810
	Top side	0.700	0.099	0.209	0.062	0.799	0.909	0.762	0.971
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_71A_n2A	Front side	0.461	0.105	0.088	0.070	0.566	0.549	0.531	0.619
	Back side	0.860	0.147	0.262	0.093	1.007	1.122	0.953	1.215
	Left side	0.331	0.105	0.088	0.070	0.436	0.419	0.401	0.489
	Right side	0.430	0.147	0.262	0.093	0.577	0.692	0.523	0.785
	Top side	0.496	0.099	0.209	0.062	0.595	0.705	0.558	0.767
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n2A	Front side	0.307	0.105	0.088	0.070	0.412	0.395	0.377	0.465
	Back side	0.689	0.147	0.262	0.093	0.836	0.951	0.782	1.044
	Left side	0.032	0.105	0.088	0.070	0.137	0.120	0.102	0.190
	Right side	0.299	0.147	0.262	0.093	0.446	0.561	0.392	0.654
	Top side	0.156	0.099	0.209	0.062	0.255	0.365	0.218	0.427
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
DC_2A_n5A	Front side	0.622	0.105	0.088	0.070	0.727	0.710	0.692	0.780
	Back side	0.940	0.147	0.262	0.093	1.087	1.202	1.033	1.295
	Left side	0.230	0.105	0.088	0.070	0.335	0.318	0.300	0.388
	Right side	0.514	0.147	0.262	0.093	0.661	0.776	0.607	0.869
	Top side	0.519	0.099	0.209	0.062	0.618	0.728	0.581	0.790
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n5A	Front side	0.551	0.105	0.088	0.070	0.656	0.639	0.621	0.709
	Back side	0.861	0.147	0.262	0.093	1.008	1.123	0.954	1.216
	Left side	0.568	0.105	0.088	0.070	0.673	0.656	0.638	0.726
	Right side	0.075	0.147	0.262	0.093	0.222	0.337	0.168	0.430
	Top side	0.428	0.099	0.209	0.062	0.527	0.637	0.490	0.699
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n5A	Front side	0.786	0.105	0.088	0.070	0.891	0.874	0.856	0.944
	Back side	0.930	0.147	0.262	0.093	1.077	1.192	1.023	1.285
	Left side	0.230	0.105	0.088	0.070	0.335	0.318	0.300	0.388
	Right side	0.565	0.147	0.262	0.093	0.712	0.827	0.658	0.920



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	Top side	0.559	0.099	0.209	0.062	0.658	0.768	0.621	0.830
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n41A	Front side	0.673	0.105	0.088	0.070	0.778	0.761	0.743	0.831
	Back side	1.190	0.147	0.262	0.093	1.337	1.452	1.283	1.545
	Left side	0.634	0.105	0.088	0.070	0.739	0.722	0.704	0.792
	Right side	0.113	0.147	0.262	0.093	0.260	0.375	0.206	0.468
	Top side	0.118	0.099	0.209	0.062	0.217	0.327	0.180	0.389
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_4A_n41A	Front side	0.536	0.105	0.088	0.070	0.641	0.624	0.606	0.694
	Back side	0.950	0.147	0.262	0.093	1.097	1.212	1.043	1.305
	Left side	0.493	0.105	0.088	0.070	0.598	0.581	0.563	0.651
	Right side	0.739	0.147	0.262	0.093	0.886	1.001	0.832	1.094
	Top side	0.118	0.099	0.209	0.062	0.217	0.327	0.180	0.389
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
DC_5A_n41A	Front side	0.785	0.105	0.088	0.070	0.890	0.873	0.855	0.943
	Back side	1.094	0.147	0.262	0.093	1.241	1.356	1.187	1.449
	Left side	0.675	0.105	0.088	0.070	0.780	0.763	0.745	0.833
	Right side	0.813	0.147	0.262	0.093	0.960	1.075	0.906	1.168
	Top side	0.443	0.099	0.209	0.062	0.542	0.652	0.505	0.714
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A_n41A	Front side	0.754	0.105	0.088	0.070	0.859	0.842	0.824	0.912
	Back side	1.118	0.147	0.262	0.093	1.265	1.380	1.211	1.473
	Left side	0.806	0.105	0.088	0.070	0.911	0.894	0.876	0.964
	Right side	0.922	0.147	0.262	0.093	1.069	1.184	1.015	1.277
	Top side	0.583	0.099	0.209	0.062	0.682	0.792	0.645	0.854
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_25A_n41A	Front side	0.673	0.105	0.088	0.070	0.778	0.761	0.743	0.831
	Back side	1.190	0.147	0.262	0.093	1.337	1.452	1.283	1.545
	Left side	0.673	0.105	0.088	0.070	0.778	0.761	0.743	0.831
	Right side	1.190	0.147	0.262	0.093	1.337	1.452	1.283	1.545
	Top side	0.118	0.099	0.209	0.062	0.217	0.327	0.180	0.389
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_66A_n41A	Front side	0.536	0.105	0.088	0.070	0.641	0.624	0.606	0.694
	Back side	0.950	0.147	0.262	0.093	1.097	1.212	1.043	1.305
	Left side	0.536	0.105	0.088	0.070	0.641	0.624	0.606	0.694
	Right side	0.950	0.147	0.262	0.093	1.097	1.212	1.043	1.305
	Top side	0.118	0.099	0.209	0.062	0.217	0.327	0.180	0.389
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
DC_71A_n41A	Front side	0.690	0.105	0.088	0.070	0.795	0.778	0.760	0.848
	Back side	1.121	0.147	0.262	0.093	1.268	1.383	1.214	1.476
	Left side	0.792	0.105	0.088	0.070	0.897	0.880	0.862	0.950
	Right side	0.870	0.147	0.262	0.093	1.017	1.132	0.963	1.225
	Top side	0.458	0.099	0.209	0.062	0.557	0.667	0.520	0.729
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n66A/DC_2A-2A_n66A	Front side	0.692	0.105	0.088	0.070	0.797	0.780	0.762	0.850
	Back side	1.015	0.147	0.262	0.093	1.162	1.277	1.108	1.370
	Left side	0.039	0.105	0.088	0.070	0.144	0.127	0.109	0.197
	Right side	0.611	0.147	0.262	0.093	0.758	0.873	0.704	0.966
	Top side	0.253	0.099	0.209	0.062	0.352	0.462	0.315	0.524
	Bottom side	0.405	0.000	0.000	0.000	0.405	0.405	0.405	0.405



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DC_5A_n66A	Front side	0.804	0.105	0.088	0.070	0.909	0.892	0.874	0.962
	Back side	0.919	0.147	0.262	0.093	1.066	1.181	1.012	1.274
	Left side	0.804	0.105	0.088	0.070	0.909	0.892	0.874	0.962
	Right side	0.919	0.147	0.262	0.093	1.066	1.181	1.012	1.274
	Top side	0.578	0.099	0.209	0.062	0.677	0.787	0.640	0.849
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n66A	Front side	0.737	0.105	0.088	0.070	0.842	0.825	0.807	0.895
	Back side	1.024	0.147	0.262	0.093	1.171	1.286	1.117	1.379
	Left side	0.818	0.105	0.088	0.070	0.923	0.906	0.888	0.976
	Right side	0.536	0.147	0.262	0.093	0.683	0.798	0.629	0.891
	Top side	0.335	0.099	0.209	0.062	0.434	0.544	0.397	0.606
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A_n66A	Front side	0.773	0.105	0.088	0.070	0.878	0.861	0.843	0.931
	Back side	0.943	0.147	0.262	0.093	1.090	1.205	1.036	1.298
	Left side	0.825	0.105	0.088	0.070	0.930	0.913	0.895	0.983
	Right side	0.747	0.147	0.262	0.093	0.894	1.009	0.840	1.102
	Top side	0.718	0.099	0.209	0.062	0.817	0.927	0.780	0.989
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_13A_n66A	Front side	0.911	0.105	0.088	0.070	1.016	0.999	0.981	1.069
	Back side	1.151	0.147	0.262	0.093	1.298	1.413	1.244	1.506
	Left side	0.953	0.105	0.088	0.070	1.058	1.041	1.023	1.111
	Right side	0.720	0.147	0.262	0.093	0.867	0.982	0.813	1.075
	Top side	0.797	0.099	0.209	0.062	0.896	1.006	0.859	1.068
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_71A_n66A	Front side	0.709	0.105	0.088	0.070	0.814	0.797	0.779	0.867
	Back side	0.946	0.147	0.262	0.093	1.093	1.208	1.039	1.301
	Left side	0.811	0.105	0.088	0.070	0.916	0.899	0.881	0.969
	Right side	0.695	0.147	0.262	0.093	0.842	0.957	0.788	1.050
	Top side	0.593	0.099	0.209	0.062	0.692	0.802	0.655	0.864
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_30A-12A_n66A	Front side	0.818	0.105	0.088	0.070	0.923	0.906	0.888	0.976
	Back side	1.061	0.147	0.262	0.093	1.208	1.323	1.154	1.416
	Left side	0.987	0.105	0.088	0.070	1.092	1.075	1.057	1.145
	Right side	0.536	0.147	0.262	0.093	0.683	0.798	0.629	0.891
	Top side	0.448	0.099	0.209	0.062	0.547	0.657	0.510	0.719
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n71A	Front side	0.583	0.105	0.088	0.070	0.688	0.671	0.653	0.741
	Back side	0.951	0.147	0.262	0.093	1.098	1.213	1.044	1.306
	Left side	0.703	0.105	0.088	0.070	0.808	0.791	0.773	0.861
	Right side	0.718	0.147	0.262	0.093	0.865	0.980	0.811	1.073
	Top side	0.545	0.099	0.209	0.062	0.644	0.754	0.607	0.816
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n71A	Front side	0.512	0.105	0.088	0.070	0.617	0.600	0.582	0.670
	Back side	0.872	0.147	0.262	0.093	1.019	1.134	0.965	1.227
	Left side	0.512	0.105	0.088	0.070	0.617	0.600	0.582	0.670
	Right side	0.872	0.147	0.262	0.093	1.019	1.134	0.965	1.227
	Top side	0.454	0.099	0.209	0.062	0.553	0.663	0.516	0.725
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_66A_n71A	Front side	0.747	0.105	0.088	0.070	0.852	0.835	0.817	0.905
	Back side	0.941	0.147	0.262	0.093	1.088	1.203	1.034	1.296



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	Left side	0.255	0.105	0.088	0.070	0.360	0.343	0.325	0.413
	Right side	0.874	0.147	0.262	0.093	1.021	1.136	0.967	1.229
	Top side	0.585	0.099	0.209	0.062	0.684	0.794	0.647	0.856
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n77A	Front side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Back side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Left side	0.327	0.105	0.088	0.070	0.432	0.415	0.397	0.485
	Right side	1.032	0.147	0.262	0.093	1.179	1.294	1.125	1.387
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_5A_n77A	Front side	0.604	0.105	0.088	0.070	0.709	0.692	0.674	0.762
	Back side	0.890	0.147	0.262	0.093	1.037	1.152	0.983	1.245
	Left side	0.604	0.105	0.088	0.070	0.709	0.692	0.674	0.762
	Right side	0.890	0.147	0.262	0.093	1.037	1.152	0.983	1.245
	Top side	0.563	0.099	0.209	0.062	0.662	0.772	0.625	0.834
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n77A	Front side	0.537	0.105	0.088	0.070	0.642	0.625	0.607	0.695
	Back side	0.995	0.147	0.262	0.093	1.142	1.257	1.088	1.350
	Left side	0.537	0.105	0.088	0.070	0.642	0.625	0.607	0.695
	Right side	0.995	0.147	0.262	0.093	1.142	1.257	1.088	1.350
	Top side	0.320	0.099	0.209	0.062	0.419	0.529	0.382	0.591
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A_n77A	Front side	0.573	0.105	0.088	0.070	0.678	0.661	0.643	0.731
	Back side	0.914	0.147	0.262	0.093	1.061	1.176	1.007	1.269
	Left side	0.573	0.105	0.088	0.070	0.678	0.661	0.643	0.731
	Right side	0.914	0.147	0.262	0.093	1.061	1.176	1.007	1.269
	Top side	0.703	0.099	0.209	0.062	0.802	0.912	0.765	0.974
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_13A_n77A	Front side	0.711	0.105	0.088	0.070	0.816	0.799	0.781	0.869
	Back side	1.122	0.147	0.262	0.093	1.269	1.384	1.215	1.477
	Left side	0.711	0.105	0.088	0.070	0.816	0.799	0.781	0.869
	Right side	1.122	0.147	0.262	0.093	1.269	1.384	1.215	1.477
	Top side	0.782	0.099	0.209	0.062	0.881	0.991	0.844	1.053
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_25A_n77A	Front side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Back side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Left side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Right side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_66A_n77A	Front side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Back side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Left side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Right side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
DC_71A_n77A	Front side	0.509	0.105	0.088	0.070	0.614	0.597	0.579	0.667
	Back side	0.917	0.147	0.262	0.093	1.064	1.179	1.010	1.272
	Left side	0.509	0.105	0.088	0.070	0.614	0.597	0.579	0.667
	Right side	0.917	0.147	0.262	0.093	1.064	1.179	1.010	1.272



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	Top side	0.578	0.099	0.209	0.062	0.677	0.787	0.640	0.849
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_2A_n78A	Front side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Back side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Left side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Right side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_4A_n78A	Front side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Back side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Left side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Right side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196
DC_5A_n78A	Front side	0.604	0.105	0.088	0.070	0.709	0.692	0.674	0.762
	Back side	0.890	0.147	0.262	0.093	1.037	1.152	0.983	1.245
	Left side	0.604	0.105	0.088	0.070	0.709	0.692	0.674	0.762
	Right side	0.890	0.147	0.262	0.093	1.037	1.152	0.983	1.245
	Top side	0.563	0.099	0.209	0.062	0.662	0.772	0.625	0.834
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_7A_n78A	Front side	0.537	0.105	0.088	0.070	0.642	0.625	0.607	0.695
	Back side	0.995	0.147	0.262	0.093	1.142	1.257	1.088	1.350
	Left side	0.537	0.105	0.088	0.070	0.642	0.625	0.607	0.695
	Right side	0.995	0.147	0.262	0.093	1.142	1.257	1.088	1.350
	Top side	0.320	0.099	0.209	0.062	0.419	0.529	0.382	0.591
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_12A_n78A	Front side	0.573	0.105	0.088	0.070	0.678	0.661	0.643	0.731
	Back side	0.914	0.147	0.262	0.093	1.061	1.176	1.007	1.269
	Left side	0.573	0.105	0.088	0.070	0.678	0.661	0.643	0.731
	Right side	0.914	0.147	0.262	0.093	1.061	1.176	1.007	1.269
	Top side	0.703	0.099	0.209	0.062	0.802	0.912	0.765	0.974
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_13A_n78A	Front side	0.711	0.105	0.088	0.070	0.816	0.799	0.781	0.869
	Back side	1.122	0.147	0.262	0.093	1.269	1.384	1.215	1.477
	Left side	0.711	0.105	0.088	0.070	0.816	0.799	0.781	0.869
	Right side	1.122	0.147	0.262	0.093	1.269	1.384	1.215	1.477
	Top side	0.782	0.099	0.209	0.062	0.881	0.991	0.844	1.053
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DC_25A_n78A	Front side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Back side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Left side	0.492	0.105	0.088	0.070	0.597	0.580	0.562	0.650
	Right side	0.986	0.147	0.262	0.093	1.133	1.248	1.079	1.341
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.362	0.000	0.000	0.000	0.362	0.362	0.362	0.362
DC_66A_n78A	Front side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Back side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Left side	0.355	0.105	0.088	0.070	0.460	0.443	0.425	0.513
	Right side	0.746	0.147	0.262	0.093	0.893	1.008	0.839	1.101
	Top side	0.238	0.099	0.209	0.062	0.337	0.447	0.300	0.509
	Bottom side	0.196	0.000	0.000	0.000	0.196	0.196	0.196	0.196



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DC_71A_n78A	Front side	0.509	0.105	0.088	0.070	0.614	0.597	0.579	0.667
	Back side	0.917	0.147	0.262	0.093	1.064	1.179	1.010	1.272
	Left side	0.509	0.105	0.088	0.070	0.614	0.597	0.579	0.667
	Right side	0.917	0.147	0.262	0.093	1.064	1.179	1.010	1.272
	Top side	0.578	0.099	0.209	0.062	0.677	0.787	0.640	0.849
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Sum_ENDC_Head

LTE Band (EN_DC)	Exposure position	Ant0	Ant4	Ant1	n2		EN_DC Summed SAR			
					Ant1	Ant2				
		1	2	3	4	5	1+5	2+4	3+5	2+5
Band 5	Left Touch	0.443	/	/	0.043	0.688	1.131	/	/	/
	Left Tilt	0.375	/	/	0.031	0.270	0.645	/	/	/
	Right Touch	0.556	/	/	0.047	0.263	0.819	/	/	/
	Right Tilt	0.504	/	/	0.036	0.207	0.711	/	/	/
Band 7	Left Touch	/	0.263	/	0.043	0.688	/	0.306	/	0.951
	Left Tilt	/	0.118	/	0.031	0.270	/	0.149	/	0.388
	Right Touch	/	0.779	/	0.047	0.263	/	0.826	/	1.042
	Right Tilt	/	0.160	/	0.036	0.207	/	0.196	/	0.367
Band 12	Left Touch	0.251	/	/	0.043	0.688	0.939	/	/	/
	Left Tilt	0.187	/	/	0.031	0.270	0.457	/	/	/
	Right Touch	0.433	/	/	0.047	0.263	0.696	/	/	/
	Right Tilt	0.303	/	/	0.036	0.207	0.510	/	/	/
Band 13	Left Touch	0.480	/	/	0.043	0.688	1.168	/	/	/
	Left Tilt	0.459	/	/	0.031	0.270	0.729	/	/	/
	Right Touch	0.810	/	/	0.047	0.263	1.073	/	/	/
	Right Tilt	0.745	/	/	0.036	0.207	0.952	/	/	/
Band 71	Left Touch	0.213	/	/	0.043	0.688	0.901	/	/	/
	Left Tilt	0.198	/	/	0.031	0.270	0.468	/	/	/
	Right Touch	0.319	/	/	0.047	0.263	0.582	/	/	/
	Right Tilt	0.244	/	/	0.036	0.207	0.451	/	/	/
Band 66	Left Touch	/	/	0.032	0.043	0.688	0.688	/	0.720	/
	Left Tilt	/	/	0.030	0.031	0.270	0.270	/	0.300	/
	Right Touch	/	/	0.038	0.047	0.263	0.263	/	0.301	/
	Right Tilt	/	/	0.031	0.036	0.207	0.207	/	0.238	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n5	EN_DC Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
Band 2	Left Touch	0.745	/	0.299	1.044	/
	Left Tilt	0.295	/	0.258	0.553	/
	Right Touch	0.522	/	0.577	1.099	/
	Right Tilt	0.441	/	0.399	0.840	/
Band 7	Left Touch	/	0.263	0.299	/	0.562
	Left Tilt	/	0.118	0.258	/	0.376
	Right Touch	/	0.779	0.577	/	1.356
	Right Tilt	/	0.160	0.399	/	0.559
Band 66	Left Touch	0.674	/	0.299	0.973	/
	Left Tilt	0.236	/	0.258	0.494	/



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	Right Touch	0.249	/	0.577	0.826	/
	Right Tilt	0.197	/	0.399	0.596	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n41	EN_DC Summed SAR	
				Ant4		
		1	2	3	1+3	2+3
Band 2	Left Touch	/	0.031	0.315	/	0.346
	Left Tilt	/	0.028	0.211	/	0.239
	Right Touch	/	0.045	0.793	/	0.838
	Right Tilt	/	0.031	0.270	/	0.301
Band 4	Left Touch	/	0.032	0.315	/	0.347
	Left Tilt	/	0.030	0.211	/	0.241
	Right Touch	/	0.038	0.793	/	0.831
	Right Tilt	/	0.031	0.270	/	0.301
Band 5	Left Touch	0.443	/	0.315	0.758	/
	Left Tilt	0.375	/	0.211	0.586	/
	Right Touch	0.556	/	0.793	1.349	/
	Right Tilt	0.504	/	0.270	0.774	/
Band 12	Left Touch	0.251	/	0.315	0.566	/
	Left Tilt	0.187	/	0.211	0.398	/
	Right Touch	0.433	/	0.793	1.226	/
	Right Tilt	0.303	/	0.270	0.573	/
Band 25	Left Touch	/	0.031	0.315	/	0.346
	Left Tilt	/	0.028	0.211	/	0.239
	Right Touch	/	0.045	0.793	/	0.838
	Right Tilt	/	0.031	0.270	/	0.301
Band 66	Left Touch	/	0.032	0.315	/	0.347
	Left Tilt	/	0.030	0.211	/	0.241
	Right Touch	/	0.038	0.793	/	0.831
	Right Tilt	/	0.031	0.270	/	0.301
Band 71	Left Touch	0.213	/	0.315	0.528	/
	Left Tilt	0.198	/	0.211	0.409	/
	Right Touch	0.319	/	0.793	1.112	/
	Right Tilt	0.244	/	0.270	0.514	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant2	Ant4	Ant6	n66		EN_DC Summed SAR				
							Ant1	Ant2					
		1	2	3	4	5	6	7	1+7	3+6	4+7	2+7	5+7
Band 2	Left Touch	/	0.031	0.745	/	/	0.048	0.390	/	0.793	/	0.421	/
	Left Tilt	/	0.028	0.295	/	/	0.039	0.169	/	0.334	/	0.197	/
	Right Touch	/	0.045	0.522	/	/	0.055	0.182	/	0.577	/	0.227	/
	Right Tilt	/	0.031	0.441	/	/	0.045	0.138	/	0.486	/	0.169	/
Band 5	Left	0.443	/	/	/	/	0.048	0.390	0.833	/	/	/	/



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	Touch												
	Left Tilt	0.375	/	/	/	/	0.039	0.169	0.544	/	/	/	/
	Right Touch	0.556	/	/	/	/	0.055	0.182	0.738	/	/	/	/
	Right Tilt	0.504	/	/	/	/	0.045	0.138	0.642	/	/	/	/
Band 7	Left Touch	/	/	/	0.263	/	0.048	0.390	/	/	0.653	/	/
	Left Tilt	/	/	/	0.118	/	0.039	0.169	/	/	0.287	/	/
	Right Touch	/	/	/	0.779	/	0.055	0.182	/	/	0.961	/	/
	Right Tilt	/	/	/	0.160	/	0.045	0.138	/	/	0.298	/	/
Band 12	Left Touch	0.251	/	/	/	/	0.048	0.390	0.641	/	/	/	/
	Left Tilt	0.187	/	/	/	/	0.039	0.169	0.356	/	/	/	/
	Right Touch	0.433	/	/	/	/	0.055	0.182	0.615	/	/	/	/
	Right Tilt	0.303	/	/	/	/	0.045	0.138	0.441	/	/	/	/
Band 13	Left Touch	0.480	/	/	/	/	0.048	0.390	0.870	/	/	/	/
	Left Tilt	0.459	/	/	/	/	0.039	0.169	0.628	/	/	/	/
	Right Touch	0.810	/	/	/	/	0.055	0.182	0.992	/	/	/	/
	Right Tilt	0.745	/	/	/	/	0.045	0.138	0.883	/	/	/	/
Band 71	Left Touch	0.213	/	/	/	/	0.048	0.390	0.603	/	/	/	/
	Left Tilt	0.198	/	/	/	/	0.039	0.169	0.367	/	/	/	/
	Right Touch	0.319	/	/	/	/	0.055	0.182	0.501	/	/	/	/
	Right Tilt	0.244	/	/	/	/	0.045	0.138	0.382	/	/	/	/
Band 30	Left Touch	/	/	/	/	0.206	0.048	0.390	/	/	/	/	0.596
	Left Tilt	/	/	/	/	0.164	0.039	0.169	/	/	/	/	0.333
	Right Touch	/	/	/	/	0.711	0.055	0.182	/	/	/	/	0.893
	Right Tilt	/	/	/	/	0.283	0.045	0.138	/	/	/	/	0.421

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n71	EN_DC Summed SAR	
		1	2	Ant0 3	1+3	2+3
Band 2	Left Touch	0.745	/	0.243	0.988	/
	Left Tilt	0.295	/	0.188	0.483	/
	Right Touch	0.522	/	0.330	0.852	/
	Right Tilt	0.441	/	0.274	0.715	/
Band 7	Left Touch	/	0.263	0.243	/	0.506
	Left Tilt	/	0.118	0.188	/	0.306
	Right Touch	/	0.779	0.330	/	1.109
	Right Tilt	/	0.160	0.274	/	0.434
Band 66	Left Touch	0.674	/	0.243	0.917	/
	Left Tilt	0.236	/	0.188	0.424	/
	Right Touch	0.249	/	0.330	0.579	/



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	Right Tilt	0.197	/	0.274	0.471	/
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LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n77	EN_DC Summed SAR		
		1	2	3	Ant4			
Band 2	Left Touch	/	0.031	/	0.580	/	0.611	/
	Left Tilt	/	0.028	/	0.356	/	0.384	/
	Right Touch	/	0.045	/	0.168	/	0.213	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 5	Left Touch	0.443	/	/	0.580	1.023	/	/
	Left Tilt	0.375	/	/	0.356	0.731	/	/
	Right Touch	0.556	/	/	0.168	0.724	/	/
	Right Tilt	0.504	/	/	0.149	0.653	/	/
Band 7	Left Touch	/	/	0.263	0.580	/	/	0.843
	Left Tilt	/	/	0.118	0.356	/	/	0.474
	Right Touch	/	/	0.779	0.168	/	/	0.947
	Right Tilt	/	/	0.160	0.149	/	/	0.309
Band 12	Left Touch	0.251	/	/	0.580	0.831	/	/
	Left Tilt	0.187	/	/	0.356	0.543	/	/
	Right Touch	0.433	/	/	0.168	0.601	/	/
	Right Tilt	0.303	/	/	0.149	0.452	/	/
Band 13	Left Touch	0.480	/	/	0.580	1.060	/	/
	Left Tilt	0.459	/	/	0.356	0.815	/	/
	Right Touch	0.810	/	/	0.168	0.978	/	/
	Right Tilt	0.745	/	/	0.149	0.894	/	/
Band 25	Left Touch	/	0.031	/	0.580	/	0.611	/
	Left Tilt	/	0.028	/	0.356	/	0.384	/
	Right Touch	/	0.045	/	0.168	/	0.213	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 66	Left Touch	/	0.032	/	0.580	/	0.612	/
	Left Tilt	/	0.030	/	0.356	/	0.386	/
	Right Touch	/	0.038	/	0.168	/	0.206	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 71	Left Touch	0.213	/	/	0.580	0.793	/	/
	Left Tilt	0.198	/	/	0.356	0.554	/	/
	Right Touch	0.319	/	/	0.168	0.487	/	/
	Right Tilt	0.244	/	/	0.149	0.393	/	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n78	EN_DC Summed SAR		
		1	2	3	Ant4			
Band 2	Left Touch	/	0.031	/	0.580	/	0.611	/
	Left Tilt	/	0.028	/	0.356	/	0.384	/
	Right Touch	/	0.045	/	0.168	/	0.213	/



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	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 4	Left Touch	/	0.032	/	0.580	/	0.612	/
	Left Tilt	/	0.030	/	0.356	/	0.386	/
	Right Touch	/	0.038	/	0.168	/	0.206	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 5	Left Touch	0.443	/	/	0.580	1.023	/	/
	Left Tilt	0.375	/	/	0.356	0.731	/	/
	Right Touch	0.556	/	/	0.168	0.724	/	/
	Right Tilt	0.504	/	/	0.149	0.653	/	/
Band 7	Left Touch	/	/	0.263	0.580	/	/	0.843
	Left Tilt	/	/	0.118	0.356	/	/	0.474
	Right Touch	/	/	0.779	0.168	/	/	0.947
	Right Tilt	/	/	0.160	0.149	/	/	0.309
Band 12	Left Touch	0.251	/	/	0.580	0.831	/	/
	Left Tilt	0.187	/	/	0.356	0.543	/	/
	Right Touch	0.433	/	/	0.168	0.601	/	/
	Right Tilt	0.303	/	/	0.149	0.452	/	/
Band 13	Left Touch	0.480	/	/	0.580	1.060	/	/
	Left Tilt	0.459	/	/	0.356	0.815	/	/
	Right Touch	0.810	/	/	0.168	0.978	/	/
	Right Tilt	0.745	/	/	0.149	0.894	/	/
Band 25	Left Touch	/	0.031	/	0.580	/	0.611	/
	Left Tilt	/	0.028	/	0.356	/	0.384	/
	Right Touch	/	0.045	/	0.168	/	0.213	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 66	Left Touch	/	0.032	/	0.580	/	0.612	/
	Left Tilt	/	0.030	/	0.356	/	0.386	/
	Right Touch	/	0.038	/	0.168	/	0.206	/
	Right Tilt	/	0.031	/	0.149	/	0.180	/
Band 71	Left Touch	0.213	/	/	0.580	0.793	/	/
	Left Tilt	0.198	/	/	0.356	0.554	/	/
	Right Touch	0.319	/	/	0.168	0.487	/	/
	Right Tilt	0.244	/	/	0.149	0.393	/	/

Sum ENDC Body Worn

LTE Band (EN_DC)	Exposure position	Ant0	Ant4	Ant1	n2		EN_DC Summed SAR			
					Ant1	Ant2	1+5	2+4	3+5	2+5
Band 5	Front side	0.324	/	/	0.127	0.232	0.556	/	/	/
	Back side	0.383	/	/	0.270	0.450	0.833	/	/	/
Band 7	Front side	/	0.257	/	0.127	0.232	/	0.384	/	0.489
	Back side	/	0.488	/	0.270	0.450	/	0.758	/	0.938
Band 12	Front side	0.293	/	/	0.127	0.232	0.525	/	/	/



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	Back side	0.407	/	/	0.127	0.232	0.639	/	/	/
Band 13	Front side	0.431	/	/	0.127	0.232	0.663	/	/	/
	Back side	0.615	/	/	0.127	0.232	0.847	/	/	/
Band 71	Front side	0.229	/	/	0.127	0.232	0.461	/	/	/
	Back side	0.410	/	/	0.270	0.450	0.860	/	/	/
Band 66	Front side	/	/	0.075	0.127	0.232	0.232	/	0.307	/
	Back side	/	/	0.239	0.270	0.450	0.450	/	0.689	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n5	EN_DC Summed SAR	
		1	2	Ant0		
				3	1+3	2+3
Band 2	Front side	0.328	/	0.294	0.622	/
	Back side	0.567	/	0.373	0.940	/
Band 7	Front side	/	0.257	0.294	/	0.551
	Back side	/	0.488	0.373	/	0.861
Band 66	Front side	0.492	/	0.294	0.786	/
	Back side	0.557	/	0.373	0.930	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n41	EN_DC Summed SAR	
		1	2	Ant4		
				3	1+3	2+3
Band 2	Front side	/	0.212	0.461	/	0.673
	Back side	/	0.479	0.711	/	1.190
Band 4	Front side	/	0.075	0.461	/	0.536
	Back side	/	0.239	0.711	/	0.950
Band 5	Front side	0.324	/	0.461	0.785	/
	Back side	0.383	/	0.711	1.094	/
Band 12	Front side	0.293	/	0.461	0.754	/
	Back side	0.407	/	0.711	1.118	/
Band 25	Front side	/	0.212	0.461	/	0.673
	Back side	/	0.479	0.711	/	1.190
Band 66	Front side	/	0.075	0.461	/	0.536
	Back side	/	0.239	0.711	/	0.950
Band 71	Front side	0.229	/	0.461	0.690	0.461
	Back side	0.410	/	0.711	1.121	0.711

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant2	Ant4	Ant6	n66		EN_DC Summed SAR				
		1	2	3	4	5	Ant1	Ant2					
							6	7					
Band 2	Front side	/	0.212	0.328	/	/	0.149	0.480	/	0.477	/	0.692	/
	Back side	/	0.479	0.567	/	/	0.385	0.536	/	0.952	/	1.015	/
Band 5	Front side	0.324	/	/	/	/	0.149	0.480	0.804	/	/	/	/
	Back side	0.383	/	/	/	/	0.385	0.536	0.919	/	/	/	/



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Band 7	Front side	/	/	/	0.257	/	0.149	0.480	/	/	0.737	/	/
	Back side	/	/	/	0.488	/	0.385	0.536	/	/	1.024	/	/
Band 12	Front side	0.293	/	/	/	/	0.149	0.480	0.773	/	/	/	/
	Back side	0.407	/	/	/	/	0.385	0.536	0.943	/	/	/	/
Band 13	Front side	0.431	/	/	/	/	0.149	0.480	0.911	/	/	/	/
	Back side	0.615	/	/	/	/	0.385	0.536	1.151	/	/	/	/
Band 71	Front side	0.229	/	/	/	/	0.149	0.480	0.709	/	/	/	/
	Back side	0.410	/	/	/	/	0.385	0.536	0.946	/	/	/	/
Band 30	Front side	/	/	/	/	0.338	0.149	0.480	/	/	/	/	0.818
	Back side	/	/	/	/	0.525	0.385	0.536	/	/	/	/	1.061

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n71	EN_DC Summed SAR	
		1	2	Ant0	1+3	2+3
		1	2	3	1+3	2+3
Band 2	Front side	0.328	/	0.255	0.583	/
	Back side	0.567	/	0.384	0.951	/
Band 7	Front side	/	0.257	0.255	/	0.512
	Back side	/	0.488	0.384	/	0.872
Band 66	Front side	0.492	/	0.255	0.747	/
	Back side	0.557	/	0.384	0.941	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n77	EN_DC Summed SAR		
		1	2	3	Ant4	1+4	2+4	3+4
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
Band 5	Front side	0.324	/	/	0.280	0.604	/	/
	Back side	0.383	/	/	0.507	0.890	/	/
Band 7	Front side	/	/	0.257	0.280	/	/	0.537
	Back side	/	/	0.488	0.507	/	/	0.995
Band 12	Front side	0.293	/	/	0.280	0.573	/	/
	Back side	0.407	/	/	0.507	0.914	/	/
Band 13	Front side	0.431	/	/	0.280	0.711	/	/
	Back side	0.615	/	/	0.507	1.122	/	/
Band 25	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
Band 66	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
Band 71	Front side	0.229	/	/	0.280	0.509	/	/
	Back side	0.410	/	/	0.507	0.917	/	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n78	EN_DC Summed SAR
					Ant4	



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		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
Band 4	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
Band 5	Front side	0.324	/	/	0.280	0.604	/	/
	Back side	0.383	/	/	0.507	0.890	/	/
Band 7	Front side	/	/	0.257	0.280	/	/	0.537
	Back side	/	/	0.488	0.507	/	/	0.995
Band 12	Front side	0.293	/	/	0.280	0.573	/	/
	Back side	0.407	/	/	0.507	0.914	/	/
Band 13	Front side	0.431	/	/	0.280	0.711	/	/
	Back side	0.615	/	/	0.507	1.122	/	/
Band 25	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
Band 66	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
Band 71	Front side	0.229	/	/	0.280	0.509	/	/
	Back side	0.410	/	/	0.507	0.917	/	/

Sum_ENDC_Hotspot

LTE Band (EN_DC)	Exposure position	Ant0	Ant4	Ant1	n2		EN_DC Summed SAR			
					Ant1	Ant2				
		1	2	3	4	5	1+5	2+4	3+5	2+5
Band 5	Front side	0.324	/	/	0.127	0.232	0.556	/	/	/
	Back side	0.383	/	/	0.270	0.450	0.833	/	/	/
	Left side	0.214	/	/	0.052	/	0.214	/	/	/
	Right side	0.102	/	/	0.063	0.271	0.373	/	/	/
	Top side	0.325	/	/	/	0.156	0.481	/	/	/
	Bottom side	/	/	/	0.304	/	0.000	/	/	/
Band 7	Front side	/	0.257	/	0.127	0.232	/	0.384	/	0.489
	Back side	/	0.488	/	0.270	0.450	/	0.758	/	0.938
	Left side	/	0.338	/	0.052	/	/	0.390	/	0.338
	Right side	/	/	/	0.063	0.271	/	0.063	/	0.271
	Top side	/	0.082	/	/	0.156	/	0.082	/	0.238
	Bottom side	/	/	/	0.304	/	/	0.304	/	0.000
Band 12	Front side	0.293	/	/	0.127	0.232	0.525	/	/	/
	Back side	0.407	/	/	0.270	0.450	0.857	/	/	/
	Left side	0.345	/	/	0.052	/	0.345	/	/	/
	Right side	0.211	/	/	0.063	0.271	0.482	/	/	/
	Top side	0.465	/	/	/	0.156	0.621	/	/	/
	Bottom side	/	/	/	0.304	/	0.000	/	/	/
Band 13	Front side	0.431	/	/	0.127	0.232	0.663	/	/	/



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	Back side	0.615	/	/	0.270	0.450	1.065	/	/	/
	Left side	0.473	/	/	0.052	/	0.473	/	/	/
	Right side	0.184	/	/	0.063	0.271	0.455	/	/	/
	Top side	0.544	/	/	/	0.156	0.700	/	/	/
	Bottom side	/	/	/	0.304	/	0.000	/	/	/
Band 71	Front side	0.229	/	/	0.127	0.232	0.461	/	/	/
	Back side	0.410	/	/	0.270	0.450	0.860	/	/	/
	Left side	0.331	/	/	0.052	/	0.331	/	/	/
	Right side	0.159	/	/	0.063	0.271	0.430	/	/	/
	Top side	0.340	/	/	/	0.156	0.496	/	/	/
	Bottom side	/	/	/	0.304	/	0.000	/	/	/
Band 66	Front side	/	/	0.075	0.127	0.232	/	/	0.307	/
	Back side	/	/	0.239	0.270	0.450	/	/	0.689	/
	Left side	/	/	0.032	0.052	/	/	/	0.032	/
	Right side	/	/	0.028	0.063	0.271	/	/	0.299	/
	Top side	/	/	/	/	0.156	/	/	0.156	/
	Bottom side	/	/	0.196	0.304	/	/	/	0.196	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n5	EN_DC Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
Band 2	Front side	0.328	/	0.294	0.622	/
	Back side	0.567	/	0.373	0.940	/
	Left side	/	/	0.230	0.230	/
	Right side	0.439	/	0.075	0.514	/
	Top side	0.173	/	0.346	0.519	/
	Bottom side	/	/	/	0.000	/
Band 7	Front side	/	0.257	0.294	/	0.551
	Back side	/	0.488	0.373	/	0.861
	Left side	/	0.338	0.230	/	0.568
	Right side	/	/	0.075	/	0.075
	Top side	/	0.082	0.346	/	0.428
	Bottom side	/	/	/	/	0.000
Band 66	Front side	0.492	/	0.294	0.786	/
	Back side	0.557	/	0.373	0.930	/
	Left side	/	/	0.230	0.230	/
	Right side	0.490	/	0.075	0.565	/
	Top side	0.213	/	0.346	0.559	/
	Bottom side	/	/	/	0.000	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	n41	EN_DC Summed SAR	
				Ant4		
		1	2	3	1+3	2+3



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Band 2	Front side	/	0.212	0.461	/	0.673
	Back side	/	0.479	0.711	/	1.190
	Left side	/	0.035	0.599	/	0.634
	Right side	/	0.113	/	/	0.113
	Top side	/	/	0.118	/	0.118
	Bottom side	/	0.362	/	/	0.362
Band 4	Front side	/	0.075	0.461	/	0.536
	Back side	/	0.239	0.711	/	0.950
	Left side	/	0.032	0.461	/	0.493
	Right side	/	0.028	0.711	/	0.739
	Top side	/	/	0.118	/	0.118
	Bottom side	/	0.196	/	/	0.196
Band 5	Front side	0.324	/	0.461	0.785	/
	Back side	0.383	/	0.711	1.094	/
	Left side	0.214	/	0.461	0.675	/
	Right side	0.102	/	0.711	0.813	/
	Top side	0.325	/	0.118	0.443	/
	Bottom side	/	/	/	0.000	/
Band 12	Front side	0.293	/	0.461	0.754	/
	Back side	0.407	/	0.711	1.118	/
	Left side	0.345	/	0.461	0.806	/
	Right side	0.211	/	0.711	0.922	/
	Top side	0.465	/	0.118	0.583	/
	Bottom side	/	/	/	0.000	/
Band 25	Front side	/	0.212	0.461	/	0.673
	Back side	/	0.479	0.711	/	1.190
	Left side	/	0.212	0.461	/	0.673
	Right side	/	0.479	0.711	/	1.190
	Top side	/	/	0.118	/	0.118
	Bottom side	/	0.362	/	/	0.362
Band 66	Front side	/	0.075	0.461	/	0.536
	Back side	/	0.239	0.711	/	0.950
	Left side	/	0.075	0.461	/	0.536
	Right side	/	0.239	0.711	/	0.950
	Top side	/	/	0.118	/	0.118
	Bottom side	/	0.196	/	/	0.196
Band 71	Front side	0.229	/	0.461	0.690	/
	Back side	0.410	/	0.711	1.121	/
	Left side	0.331	/	0.461	0.792	/
	Right side	0.159	/	0.711	0.870	/
	Top side	0.340	/	0.118	0.458	/
	Bottom side	/	/	/	0.000	/

LTE Band	Exposure	Ant0	Ant2	Ant4	n66	EN_DC
----------	----------	------	------	------	-----	-------



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(EN_DC)	position	Summed SAR							
		1	2	3	Ant1 4	Ant2 5	1+5	2+4	3+5
Band 2	Front side	/	0.328	/	0.149	0.480	/	0.477	/
	Back side	/	0.567	/	0.385	0.536	/	0.952	/
	Left side	/	/	/	0.039	/	/	0.039	/
	Right side	/	0.439	/	0.068	0.498	/	0.507	/
	Top side	/	0.173	/	/	0.253	/	0.173	/
	Bottom side	/	/	/	0.405	/	/	0.405	/
Band 5	Front side	0.324	/	/	0.149	0.480	0.804	/	/
	Back side	0.383	/	/	0.385	0.536	0.919	/	/
	Left side	0.324	/	/	0.149	0.480	0.804	/	/
	Right side	0.383	/	/	0.385	0.536	0.919	/	/
	Top side	0.325	/	/	/	0.253	0.578	/	/
	Bottom side	/	/	/	0.405	/	0.000	/	/
Band 7	Front side	/	/	0.257	0.149	0.480	/	/	0.737
	Back side	/	/	0.488	0.385	0.536	/	/	1.024
	Left side	/	/	0.338	0.149	0.480	/	/	0.818
	Right side	/	/	/	0.385	0.536	/	/	0.536
	Top side	/	/	0.082	/	0.253	/	/	0.335
	Bottom side	/	/	/	0.405	/	/	/	0.000
Band 12	Front side	0.293	/	/	0.149	0.480	0.773	/	/
	Back side	0.407	/	/	0.385	0.536	0.943	/	/
	Left side	0.345	/	/	0.149	0.480	0.825	/	/
	Right side	0.211	/	/	0.385	0.536	0.747	/	/
	Top side	0.465	/	/	/	0.253	0.718	/	/
	Bottom side	/	/	/	0.405	/	0.000	/	/
Band 13	Front side	0.431	/	/	0.149	0.480	0.911	/	/
	Back side	0.615	/	/	0.385	0.536	1.151	/	/
	Left side	0.473	/	/	0.149	0.480	0.953	/	/
	Right side	0.184	/	/	0.385	0.536	0.720	/	/
	Top side	0.544	/	/	/	0.253	0.797	/	/
	Bottom side	/	/	/	0.405	/	0.000	/	/
Band 71	Front side	0.229	/	/	0.149	0.480	0.709	/	/
	Back side	0.410	/	/	0.385	0.536	0.946	/	/
	Left side	0.331	/	/	0.149	0.480	0.811	/	/
	Right side	0.159	/	/	0.385	0.536	0.695	/	/
	Top side	0.340	/	/	/	0.253	0.593	/	/
	Bottom side	/	/	/	0.405	/	0.000	/	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant4	n71	EN_DC Summed SAR	
		1	2	Ant0 3	1+3	2+3
Band 2	Front side	0.328	/	0.255	0.583	/
	Back side	0.567	/	0.384	0.951	/



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	Left side	0.328	/	0.375	0.703	/
	Right side	0.567	/	0.151	0.718	/
	Top side	0.173	/	0.372	0.545	/
	Bottom side	/	/	/	0.000	/
Band 7	Front side	/	0.257	0.255	/	0.512
	Back side	/	0.488	0.384	/	0.872
	Left side	/	0.257	0.255	/	0.512
	Right side	/	0.488	0.384	/	0.872
	Top side	/	0.082	0.372	/	0.454
	Bottom side	/	/	/	/	0.000
Band 66	Front side	0.492	/	0.255	0.747	/
	Back side	0.557	/	0.384	0.941	/
	Left side	/	/	0.255	0.255	/
	Right side	0.490	/	0.384	0.874	/
	Top side	0.213	/	0.372	0.585	/
	Bottom side	/	/	/	0.000	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n77	EN_DC Summed SAR		
		1	2	3	Ant4 4	1+4	2+4	3+4
Band 2	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
	Left side	/	0.212	/	0.115	/	0.327	/
	Right side	/	0.479	/	0.553	/	1.032	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.362	/	/	/	0.362	/
Band 5	Front side	0.324	/	/	0.280	0.604	/	/
	Back side	0.383	/	/	0.507	0.890	/	/
	Left side	0.324	/	/	0.280	0.604	/	/
	Right side	0.383	/	/	0.507	0.890	/	/
	Top side	0.325	/	/	0.238	0.563	/	/
	Bottom side	/	/	/	/	0.000	/	/
Band 7	Front side	/	/	0.257	0.280	/	/	0.537
	Back side	/	/	0.488	0.507	/	/	0.995
	Left side	/	/	0.257	0.280	/	/	0.537
	Right side	/	/	0.488	0.507	/	/	0.995
	Top side	/	/	0.082	0.238	/	/	0.320
	Bottom side	/	/	/	/	/	/	0.000
Band 12	Front side	0.293	/	/	0.280	0.573	/	/
	Back side	0.407	/	/	0.507	0.914	/	/
	Left side	0.293	/	/	0.280	0.573	/	/
	Right side	0.407	/	/	0.507	0.914	/	/
	Top side	0.465	/	/	0.238	0.703	/	/
	Bottom side	/	/	/	/	0.000	/	/



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Band 13	Front side	0.431	/	/	0.280	0.711	/	/
	Back side	0.615	/	/	0.507	1.122	/	/
	Left side	0.431	/	/	0.280	0.711	/	/
	Right side	0.615	/	/	0.507	1.122	/	/
	Top side	0.544	/	/	0.238	0.782	/	/
	Bottom side	/	/	/	/	0.000	/	/
Band 25	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
	Left side	/	0.212	/	0.280	/	0.492	/
	Right side	/	0.479	/	0.507	/	0.986	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.362	/	/	/	0.362	/
Band 66	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
	Left side	/	0.075	/	0.280	/	0.355	/
	Right side	/	0.239	/	0.507	/	0.746	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.196	/	/	/	0.196	/
Band 71	Front side	0.229	/	/	0.280	0.509	/	/
	Back side	0.410	/	/	0.507	0.917	/	/
	Left side	0.229	/	/	0.280	0.509	/	/
	Right side	0.410	/	/	0.507	0.917	/	/
	Top side	0.340	/	/	0.238	0.578	/	/
	Bottom side	/	/	/	/	0.000	/	/

LTE Band (EN_DC)	Exposure position	Ant0	Ant1	Ant4	n78 Ant4	EN_DC Summed SAR		
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
	Left side	/	0.212	/	0.280	/	0.492	/
	Right side	/	0.479	/	0.507	/	0.986	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.362	/	/	/	0.362	/
Band 4	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
	Left side	/	0.075	/	0.280	/	0.355	/
	Right side	/	0.239	/	0.507	/	0.746	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.196	/	/	/	0.196	/
Band 5	Front side	0.324	/	/	0.280	0.604	/	/
	Back side	0.383	/	/	0.507	0.890	/	/
	Left side	0.324	/	/	0.280	0.604	/	/
	Right side	0.383	/	/	0.507	0.890	/	/



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	Top side	0.325	/	/	0.238	0.563	/	/
	Bottom side	/	/	/	/	0.000	/	/
Band 7	Front side	/	/	0.257	0.280	/	/	0.537
	Back side	/	/	0.488	0.507	/	/	0.995
	Left side	/	/	0.257	0.280	/	/	0.537
	Right side	/	/	0.488	0.507	/	/	0.995
	Top side	/	/	0.082	0.238	/	/	0.320
	Bottom side	/	/	/	/	/	/	0.000
Band 12	Front side	0.293	/	/	0.280	0.573	/	/
	Back side	0.407	/	/	0.507	0.914	/	/
	Left side	0.293	/	/	0.280	0.573	/	/
	Right side	0.407	/	/	0.507	0.914	/	/
	Top side	0.465	/	/	0.238	0.703	/	/
	Bottom side	/	/	/	/	0.000	/	/
Band 13	Front side	0.431	/	/	0.280	0.711	/	/
	Back side	0.615	/	/	0.507	1.122	/	/
	Left side	0.431	/	/	0.280	0.711	/	/
	Right side	0.615	/	/	0.507	1.122	/	/
	Top side	0.544	/	/	0.238	0.782	/	/
	Bottom side	/	/	/	/	0.000	/	/
Band 25	Front side	/	0.212	/	0.280	/	0.492	/
	Back side	/	0.479	/	0.507	/	0.986	/
	Left side	/	0.212	/	0.280	/	0.492	/
	Right side	/	0.479	/	0.507	/	0.986	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.362	/	/	/	0.362	/
Band 66	Front side	/	0.075	/	0.280	/	0.355	/
	Back side	/	0.239	/	0.507	/	0.746	/
	Left side	/	0.075	/	0.280	/	0.355	/
	Right side	/	0.239	/	0.507	/	0.746	/
	Top side	/	/	/	0.238	/	0.238	/
	Bottom side	/	0.196	/	/	/	0.196	/
Band 71	Front side	0.229	/	/	0.280	0.509	/	/
	Back side	0.410	/	/	0.507	0.917	/	/
	Left side	0.229	/	/	0.280	0.509	/	/
	Right side	0.410	/	/	0.507	0.917	/	/
	Top side	0.340	/	/	0.238	0.578	/	/
	Bottom side	/	/	/	/	0.000	/	/

Sum_0mm

Test position					Summed SAR			
	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	NFC				
	1	2	3	4	1+4	2+4	3+4	2+3+4



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WLAN+NFC	Front side	/	0.852	/	0.000	0.000	0.852	0.000	0.852
	Back side	/	1.044	/	0.008	0.008	1.052	0.008	1.052
	Left side	/	0.053	/	0.000	0.000	0.053	0.000	0.053
	Right side	/	0.446	/	0.000	0.000	0.446	0.000	0.446
	Top side	/	1.563	/	0.000	0.000	1.563	0.000	1.563
	Bottom side	/	/	/	0.000	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform		SPEAG DASY Professional					
Description		SAR Test System					
Software Reference		DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)					
Hardware Reference							
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration	
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR	
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-022	NCR	NCR	
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2025/01/20	2026/01/19	
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2025/08/29	2026/08/28	
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2025/10/22	2026/10/21	
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2025/12/19	2026/12/18	
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2025/06/18	2028/06/17	
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2025/10/14	2028/10/13	
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2025/06/18	2028/06/17	
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2025/10/13	2028/10/12	
☒	Validation Kits	SPEAG	D2300V2	SZ-WSR-M-038	2025/06/19	2028/06/18	
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2025/10/15	2028/10/14	
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2025/06/17	2028/06/16	
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2025/10/15	2028/10/14	
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2025/10/13	2028/10/12	
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2025/10/15	2028/10/14	
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2025/10/14	2028/10/13	
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2025/06/15	2026/06/14	
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2025/06/15	2026/06/14	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/12/16	2026/12/15	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2025/05/22	2026/05/21	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2025/08/14	2026/08/13	
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR	
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/12/16	2026/12/15	
☒	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	2025/12/16	2026/12/15	



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☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/12/16	2026/12/15
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/12/16	2026/12/15
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2025/05/19	2026/05/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2025/05/19	2026/05/18

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

--- End of report ---



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