

SAR TEST REPORT

Application No.: SZCR2512005422WM
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.: T524J
FCC ID: 2ACCJH202
Standards: FCC 47CFR § 2.1093
Date of Receipt: 2025-12-08
Date of Test: 2026-01-01 to 2026-01-20
Date of Issue: 2026-01-26

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
01		2026-01-26	Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
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		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	0.95	1.26	1.31	1.43
GSM1900	1.12	0.80	0.80	/
WCDMA Band II	1.07	0.90	0.90	/
WCDMA Band IV	0.98	0.70	0.70	/
WCDMA Band V	1.00	0.61	0.61	/
LTE Band 5	1.37	1.06	1.06	/
LTE Band 7	1.09	0.65	0.65	/
LTE Band 12(17)	1.08	0.50	0.50	/
LTE Band 13	0.96	1.00	1.00	/
LTE Band 25(2)	0.91	0.96	0.96	/
LTE Band 26	1.16	0.61	0.64	/
LTE Band 30	0.62	0.40	0.40	/
LTE Band 41(38)	0.91	0.58	0.58	/
LTE Band 42	0.54	0.23	0.38	/
LTE Band 66(4)	1.01	0.39	0.39	/
LTE Band 71	0.91	0.31	0.31	/
NR Band n2	1.08	0.48	0.48	/
NR Band n5	1.14	0.73	0.73	/
NR Band n7	1.34	0.87	0.87	/
NR Band n25	1.08	0.48	0.48	/
NR Band n41(38)	1.14	1.13	1.13	/
NR Band n66	0.86	0.47	0.47	/
NR Band n71	1.09	0.44	0.44	/
NR Band n77 (78)	1.05	1.08	1.18	/
WI-FI (2.4GHz)	0.98	0.31	0.31	/
WI-FI (5GHz)	0.70	0.71	0.66	1.22
BT	0.24	<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	1.59	1.57	1.57	1.67
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note: According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 17 is covered by LTE band 12. LTE band 2 is covered by LTE band 25. LTE band 38 is covered by LTE band 41. LTE band 4 is covered by LTE band 66. NR band 2 Ant2 is covered by NR band 25 Ant2. NR band 38 is covered by NR band 41. NR band 78 is covered by NR band 77. 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.:	T524J		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	016816000000290, 016816000000258, 016816000000878, 016816000000894, 016816000000654, 016816000202151		
Hardware Version:	07		
Software Version:	BZS8		
Antenna Type:	FPC Antenna		
Device Operating Configurations:			
Test Mode Configuration:	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		
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	
	LTE Band 2	1850~1910	



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	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
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery1# Information:	Model:	TLp050C7



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	Normal Voltage:	3.91V
	Rated capacity:	5000mAh
	Manufacturer:	Dongguan Veken Battrey Co., Ltd.
Battery2# Information:	Model:	TLp050C9
	Normal Voltage:	3.91V
	Rated capacity:	5000mAh
	Manufacturer:	Guangdong fenghua NEW energy Co.,Ltd

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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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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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Ying MA, Claire Shen, Danny Dingm, Jim Wang, Messi Chen

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**

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

CAB identifier: CN0006.

IC#: 4620C.



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

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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.

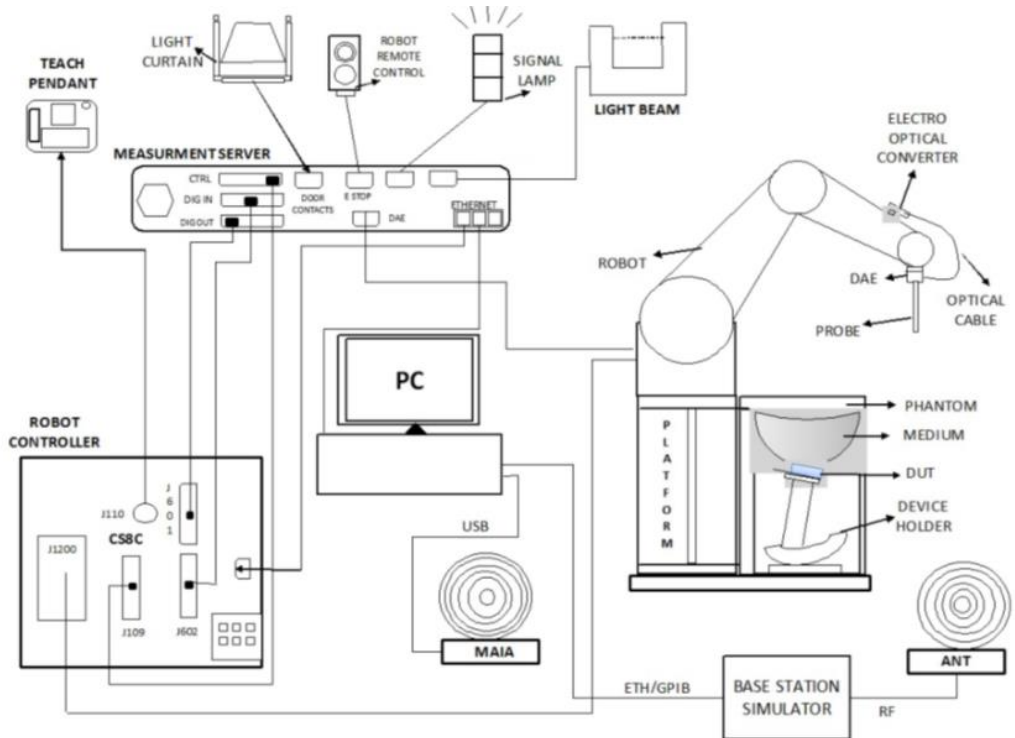
The DASY system for performing compliance tests consists of the following items:

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

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

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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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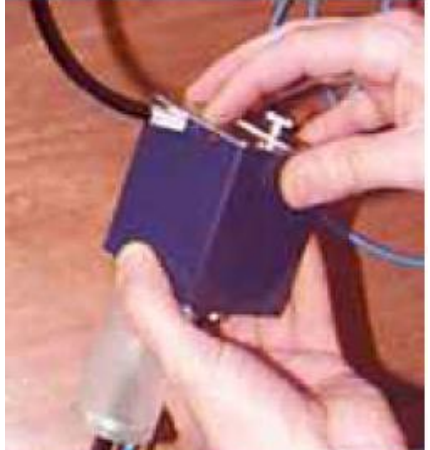
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3.2 Isotropic E-field Probe EX3DV4

	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 DASY 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: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z		$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

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

3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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



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

H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

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

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

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

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



4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

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

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

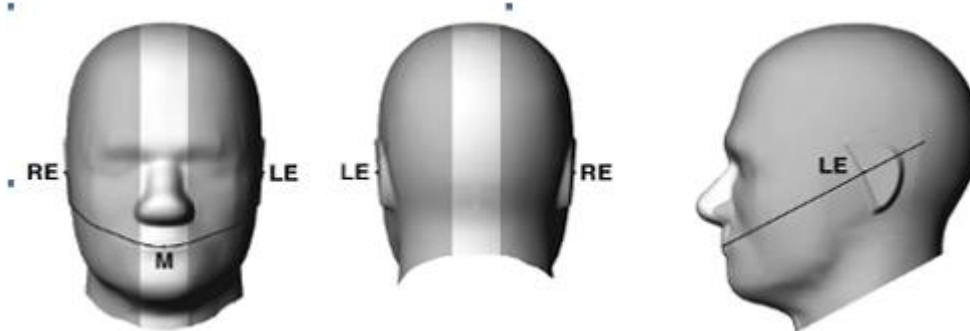
4.2 SAR measurement uncertainty

Per 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

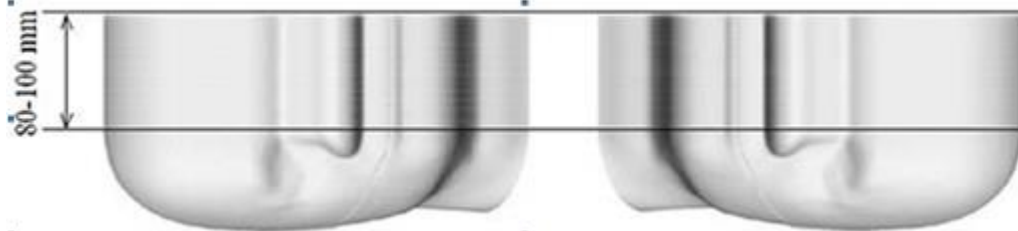
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

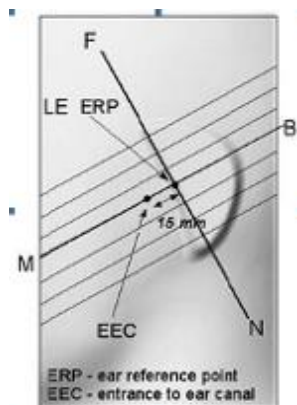


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

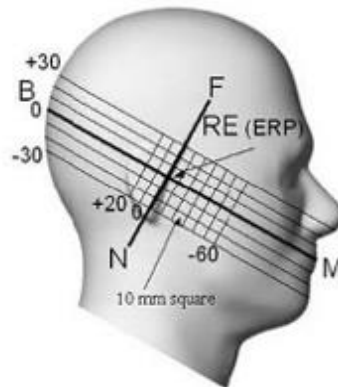
Note: The centre strip including the nose region has a different thickness tolerance.



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

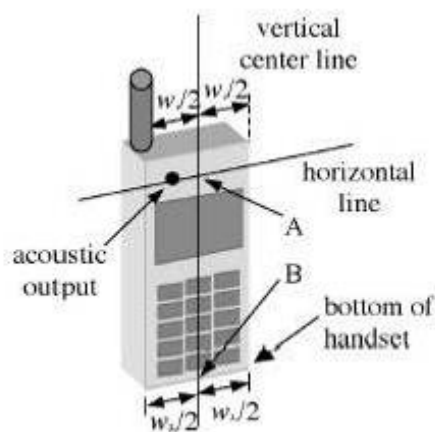


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

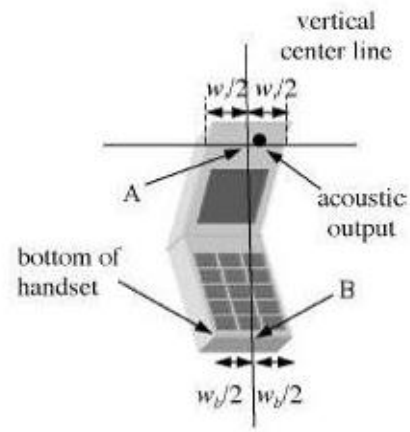


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



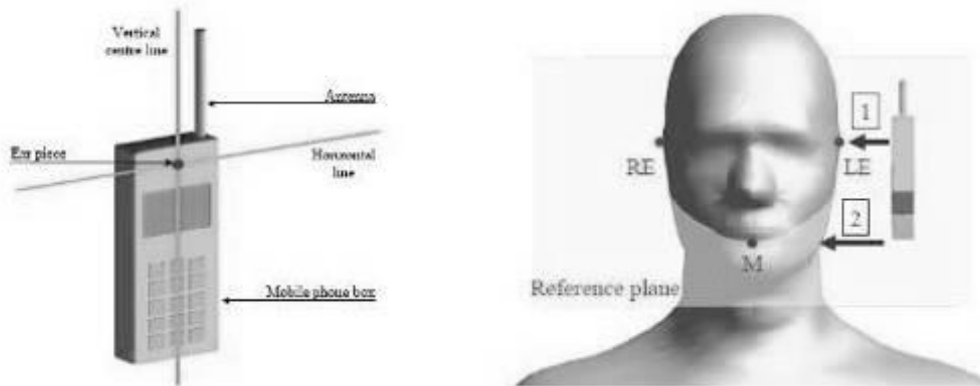
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

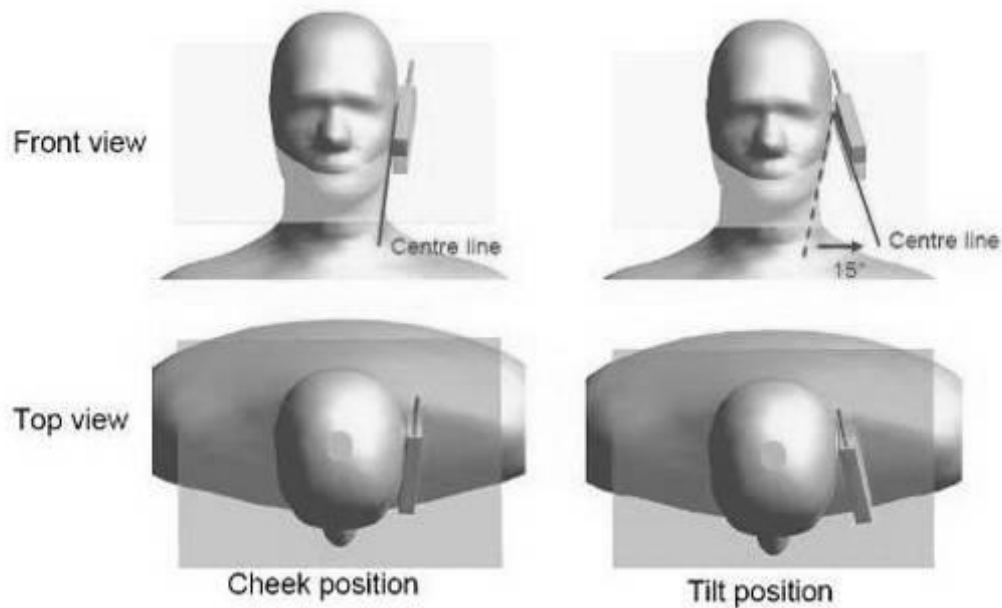
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

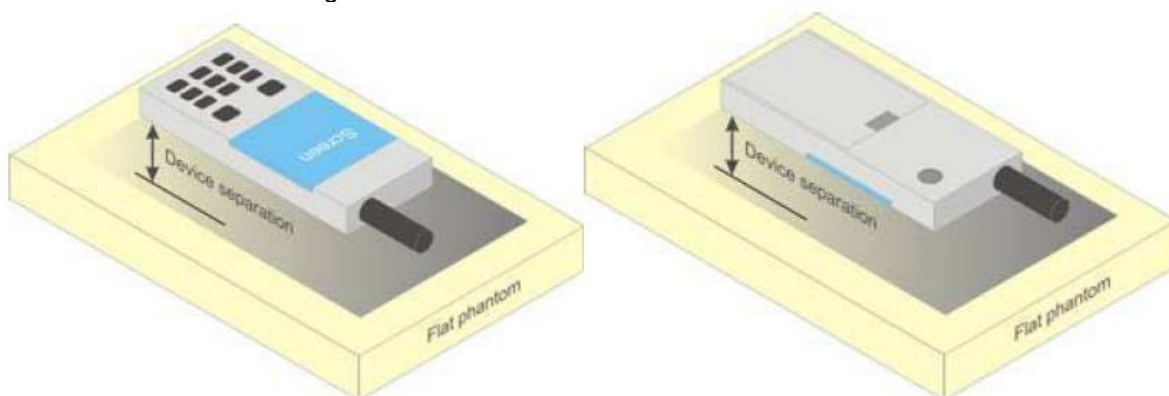
5.2.1 Body-worn exposure conditions

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.



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5.3 Extremity exposure conditions

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

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

Due to the SAR result, only the GSM850, WIFI 5G frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.



6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ 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

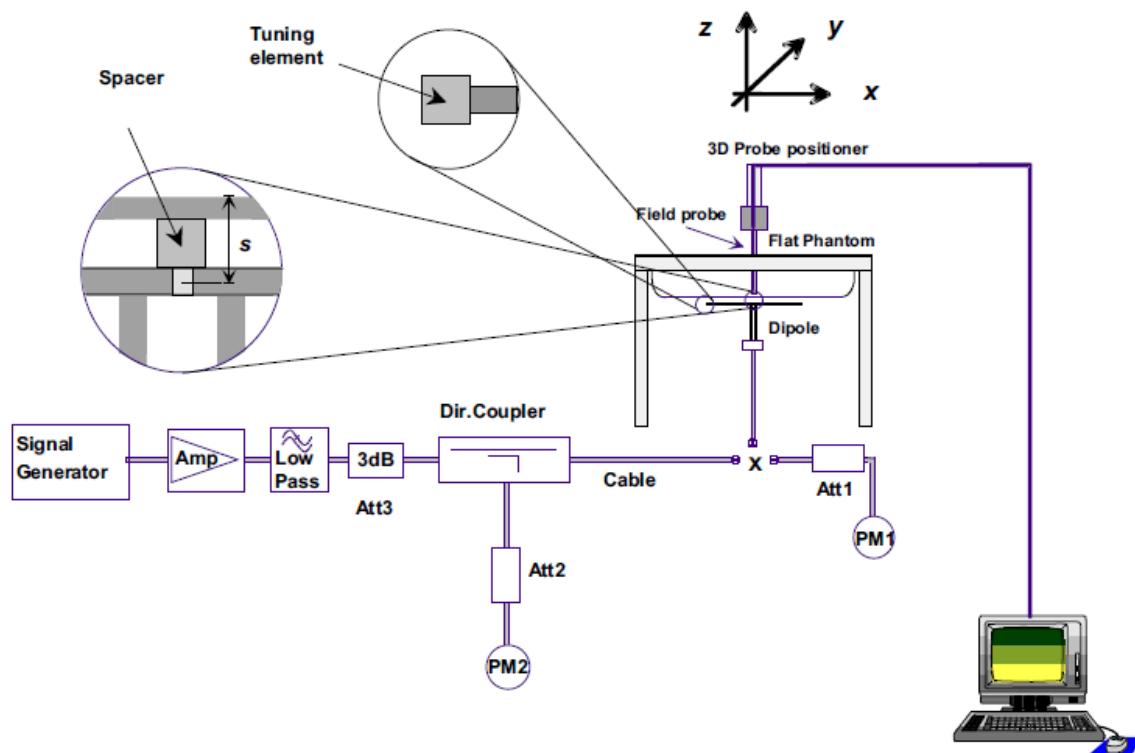
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

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	42.700	0.886	41.90	0.89	1.91%	-0.45%	20.8	2026/1/1
835 Head	835	41.000	0.892	41.50	0.90	-1.20%	-0.89%	20.5	2026/1/3
835 Head	835	43.100	0.886	41.50	0.90	3.86%	-1.56%	20.9	2026/1/4
835 Head	835	43.400	0.914	41.50	0.90	4.58%	1.56%	20.6	2026/1/5
1750 Head	1750	40.100	1.420	40.10	1.37	0.00%	3.65%	20.7	2026/1/6
1750 Head	1750	40.500	1.350	40.10	1.37	1.00%	-1.46%	20.9	2026/1/8
1950 Head	1950	39.900	1.430	40.00	1.40	-0.25%	2.14%	21.0	2026/1/10
2300 Head	2300	40.800	1.630	39.50	1.67	3.29%	-2.40%	20.7	2026/1/21
2450 Head	2450	39.400	1.800	39.20	1.80	0.51%	0.00%	20.6	2026/1/11
2600 Head	2600	39.700	1.970	39.00	1.96	1.79%	0.51%	20.8	2026/1/12
2600 Head	2600	39.500	1.920	39.00	1.96	1.28%	-2.04%	20.4	2026/1/13
3500 Head	3500	37.800	2.850	37.90	2.91	-0.26%	-2.06%	20.5	2026/1/15
3500 Head	3500	37.700	2.820	37.90	2.91	-0.53%	-3.09%	20.6	2026/1/18
3700 Head	3700	37.100	3.040	37.70	3.12	-1.59%	-2.56%	20.3	2026/1/16
3700 Head	3700	37.000	3.010	37.70	3.12	-1.86%	-3.53%	20.6	2026/1/18
3900 Head	3900	36.400	3.260	37.50	3.32	-2.93%	-1.81%	20.3	2026/1/16
5250 Head	5250	36.600	4.840	35.90	4.71	1.95%	2.76%	20.8	2026/1/20
5600 Head	5600	35.800	5.230	35.50	5.07	0.85%	3.16%	20.8	2026/1/20
5750 Head	5750	35.600	5.430	35.40	5.22	0.56%	4.02%	20.8	2026/1/20

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 (3GHz or higher) 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)

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	2.14	1.41	8.56	5.64	8.42	5.49	1.66%	2.73%	20.8	2026/1/1
D835V2_Head	2.45	1.58	9.80	6.32	9.67	6.43	1.34%	-1.71%	20.5	2026/1/3
D835V2_Head	2.43	1.57	9.72	6.28	9.67	6.43	0.52%	-2.33%	20.9	2026/1/4
D835V2_Head	2.33	1.55	9.32	6.20	9.67	6.43	-3.62%	-3.58%	20.6	2026/1/5
D1750V2_Head	9.51	5.06	38.04	20.24	36.20	19.10	5.08%	5.97%	20.7	2026/1/6
D1750V2_Head	8.81	4.71	35.24	18.84	36.20	19.10	-2.65%	-1.36%	20.9	2026/1/8
D1950V3_Head	10.90	5.66	43.60	22.64	40.70	21.20	7.13%	6.79%	21.0	2026/1/10
D2300V2_Head	13.10	6.31	52.40	25.24	48.90	23.20	7.16%	8.79%	20.7	2026/1/21
D2450V2_Head	12.60	5.85	50.40	23.40	51.90	24.50	-2.89%	-4.49%	20.6	2026/1/11
D2600V2_Head	15.00	6.74	60.00	26.96	55.30	24.70	8.50%	9.15%	20.8	2026/1/12
D2600V2_Head	14.60	6.55	58.40	26.20	55.30	24.70	5.61%	6.07%	20.4	2026/1/13
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	6.73	2.59	67.30	25.90	65.80	25.00	2.28%	3.60%	20.5	2026/1/15
D3500V2_3.5GHz_Head	6.60	2.53	66.00	25.30	65.80	25.00	0.30%	1.20%	20.6	2026/1/18
D3700V2_Head	6.98	2.64	69.80	26.40	67.30	24.70	3.71%	6.88%	20.3	2026/1/16
D3700V2_Head	6.92	2.61	69.20	26.10	67.30	24.70	2.82%	5.67%	20.6	2026/1/18
D3900V2_3.9GHz_Head	7.07	2.50	70.70	25.00	67.00	23.50	5.52%	6.38%	20.3	2026/1/16
D5GHzV2_5.25G_Head	7.21	2.24	72.10	22.40	79.00	21.80	-8.73%	2.75%	20.8	2026/1/20
D5GHzV2_5.6G_Head	7.42	2.27	74.20	22.70	81.60	22.50	-9.07%	0.89%	20.8	2026/1/20
D5GHzV2_5.75G_Head	7.64	2.16	76.40	21.60	78.30	21.30	-2.43%	1.41%	20.8	2026/1/20

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

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

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

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

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

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

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

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

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

7.1.2 WCDMA Test Configuration

1) Output Power Verification

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

2) Head SAR

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

3) Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations



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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 ^c	$\beta_{\text{e}}^{\text{c}}$	$\beta_{\text{d}}^{\text{c}}$	β_{d} (SF) ^c	$\beta_{\text{e}}/\beta_{\text{d}}^{\text{c}}$	$\beta_{\text{hs}}^{\text{c}(1)}$	$\beta_{\text{acc}}^{\text{c}}$	$\beta_{\text{ed}}^{\text{c}}$	β_{e} ^{c(1)} (SF) ^c	$\beta_{\text{ed}}^{\text{c}}$ (code) ^c	CM ⁽²⁾ (dB) ^c	MP R ^c (dB) ^c	AG ⁽⁴⁾ Inde x ^c	E- TFC I ^c
1 ^c	11/15 ⁽³⁾ ^c	15/15 ⁽³⁾ ^c	64 ^c	11/15 ⁽³⁾ ^c	22/15 ^c	209/22 5 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{\text{ed}1}:47/1$ 5 ^c $\beta_{\text{ed}2}:47/1$ 5 ^c	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾ ^c	15/15 ⁽⁴⁾ ^c	64 ^c	15/15 ⁽⁴⁾ ^c	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

Note 1: ΔACK , ΔNACK and $\Delta \text{CQI} = 8$ $A_{\text{hs}} = \beta_{\text{hs}}/\beta_{\text{e}} = 30/15$ $\beta_{\text{hs}} = 30/15 * \beta_{\text{e}}^{\text{c}}$

Note 2: CM = 1 for $\beta_{\text{e}}/\beta_{\text{d}} = 12/15$, $\beta_{\text{hs}}/\beta_{\text{e}} = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^c

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 $\beta_{\text{d}} = 15/15$ ^c

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 $\beta_{\text{d}} = 15/15$ ^c

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^c

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

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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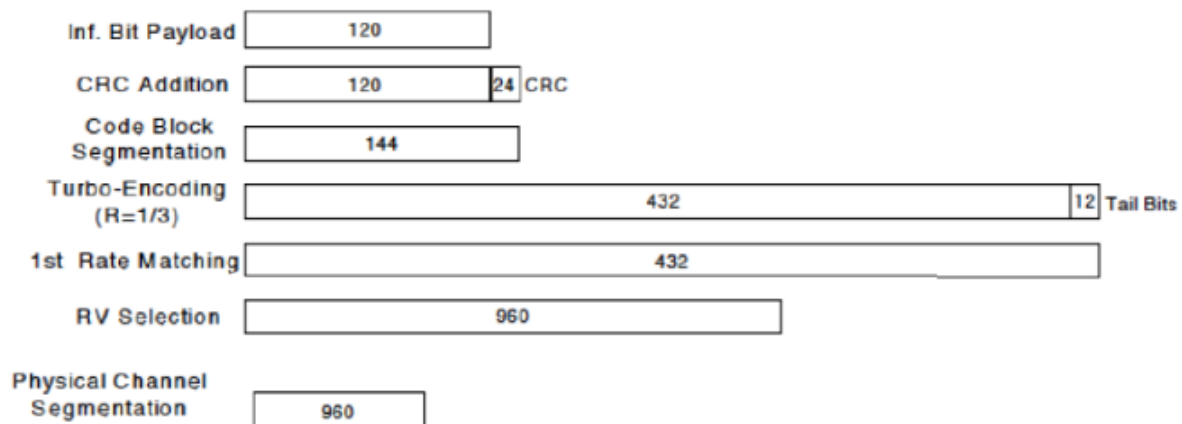


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

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

Note:

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

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 $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

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

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

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

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

5) 3G SAR Test Reduction Procedure

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

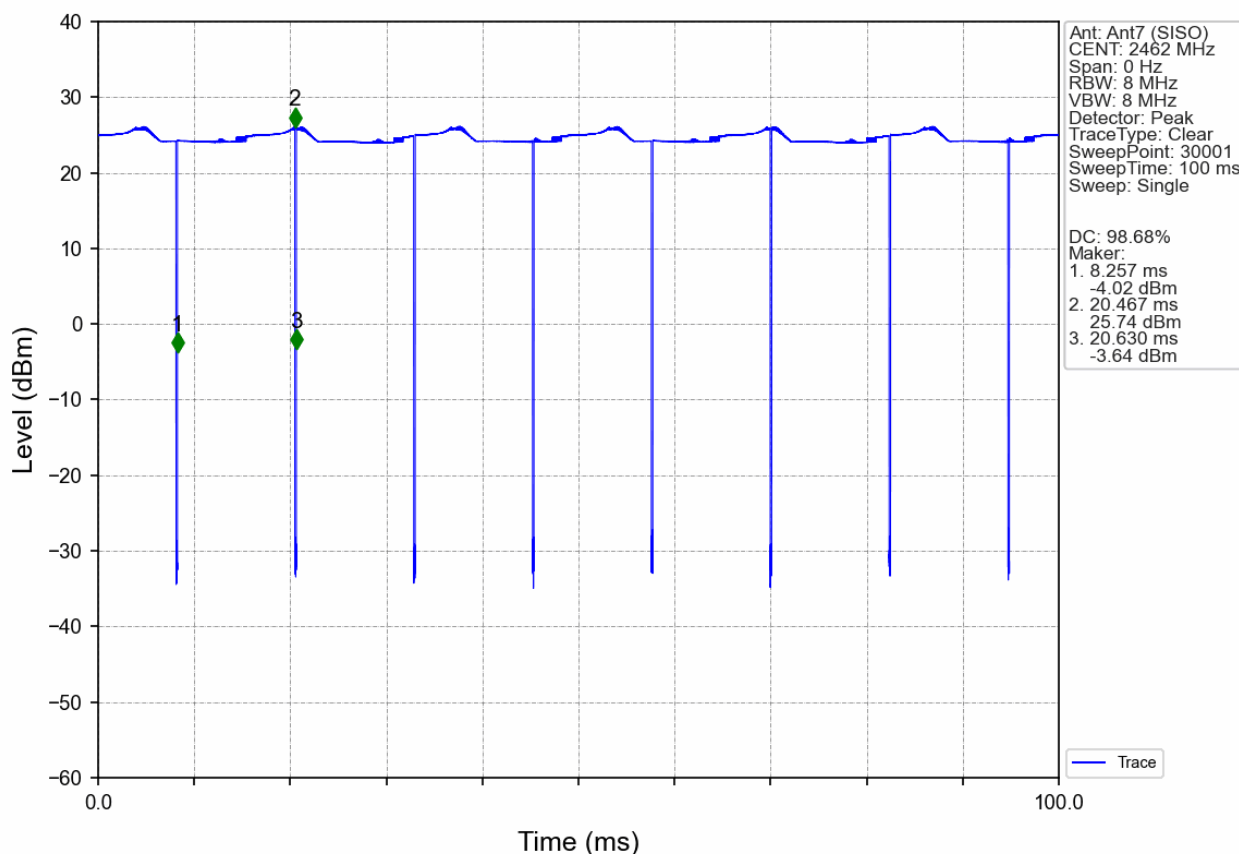
7.1.3 WIFI Test Configuration

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

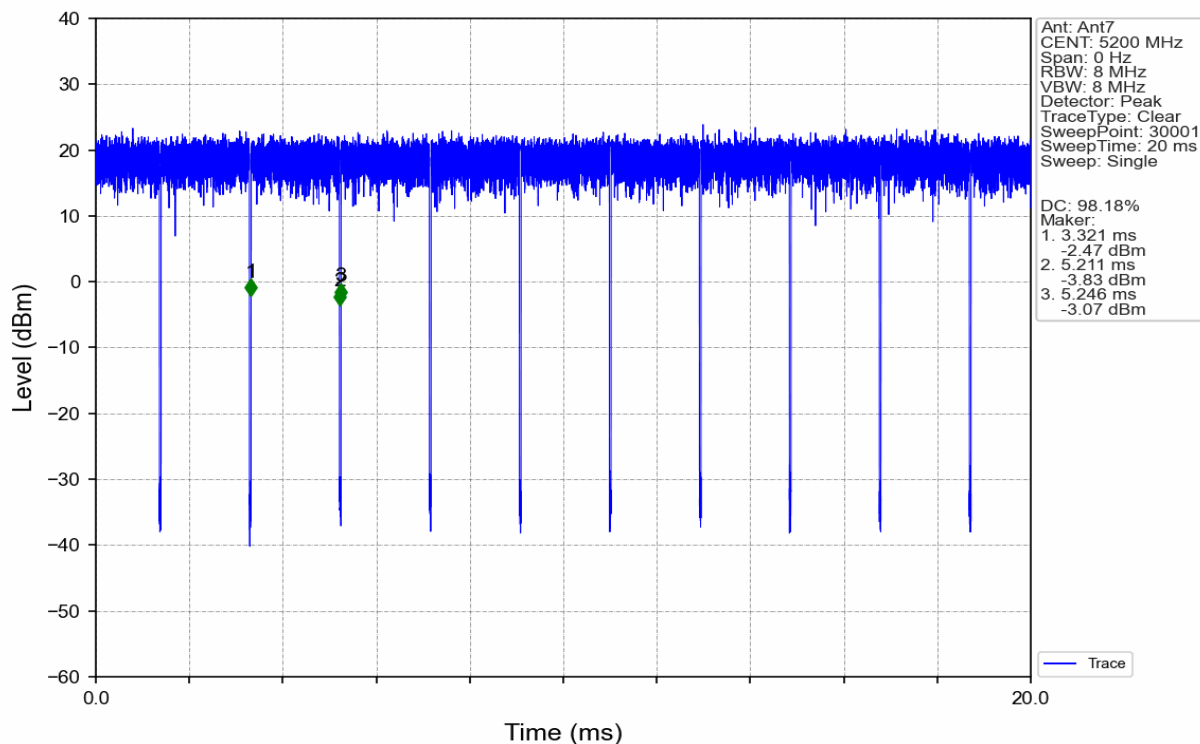
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle= 98.68%



2) Wi-Fi 5GHz 802.11a:

Duty cycle= 98.18%



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.

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.



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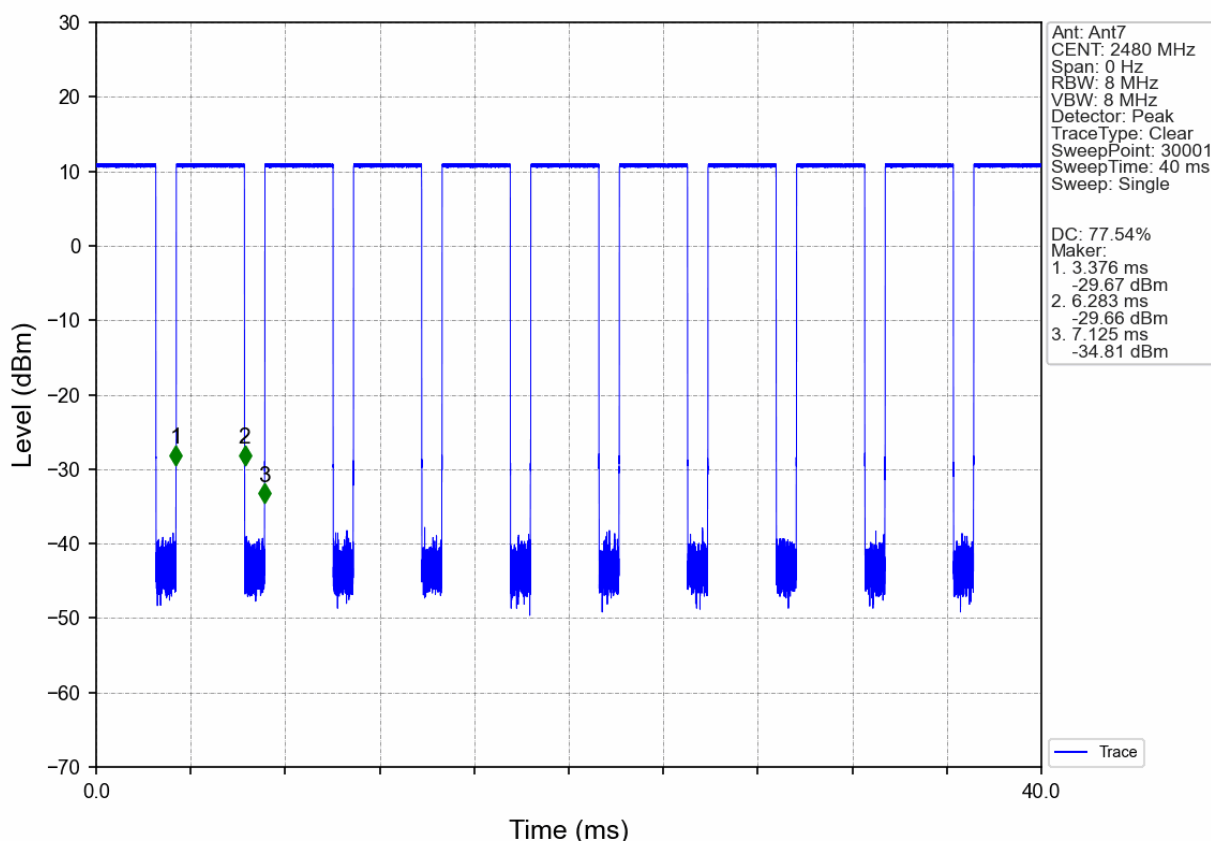
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7.1.4 BT Test Configuration

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:

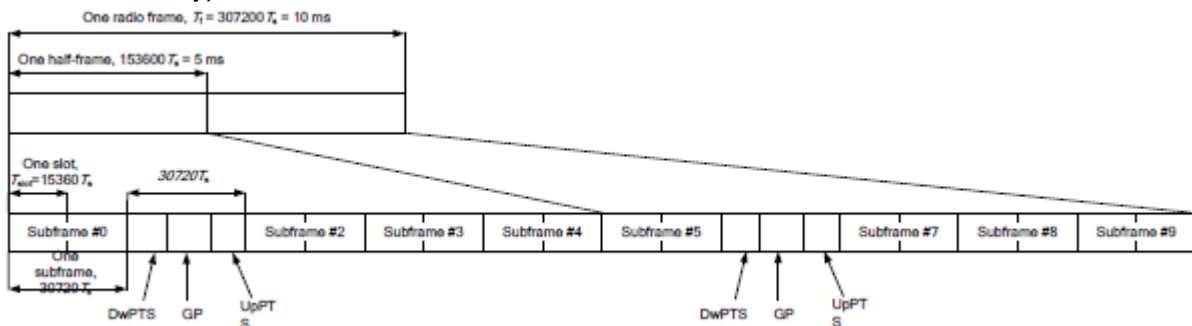


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

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	3	5	10	15	20	



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	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
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.



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.

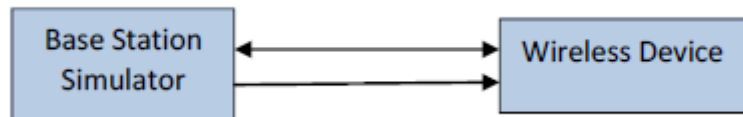
6) General PCC and SCC configuration selection procedure

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

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



maximum separation between the component carriers.
All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the 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		B7	B12	B17	B66
		Ant4	Ant0	Ant0	Ant2
B2	Ant2	✓			
B4	Ant2	✓	✓	✓	
B5	Ant0	✓			
B7	Ant4		✓		✓
B12	Ant0				✓

7.1.6 NR Band Test Configuration

1. 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
		Ant1	Ant2	Ant1	Ant0	Ant4	Ant0	Ant0	Ant1	Ant1	Ant2	Ant0
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	35MHz	40MHz	45MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n25	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A
n77	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n78	30 kHz	N/A	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	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 > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/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 ½ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.



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

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

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

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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:

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

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

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

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

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.

8.2.3 Conducted Output Power

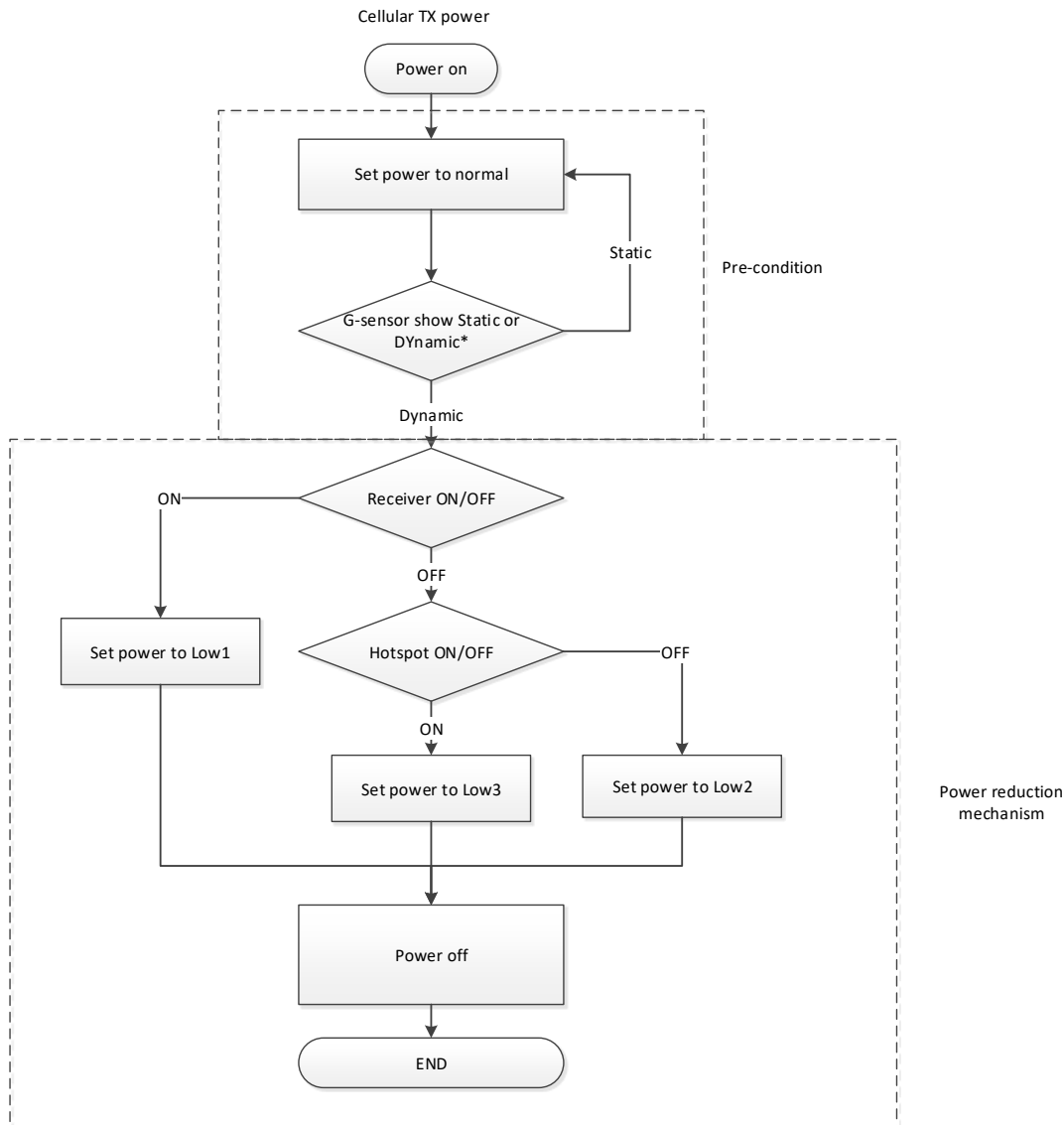
1. WWAN part transmit power reduce process

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
Set1	Receiver on	Head-SAR	All WWAN Antennas
Set2	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) 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 evaluated based on standalone SAR results.

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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data Set1											
Left cheek	GPRS 3TS	251/848.8	1:2.77	0.558	0.347	0.04	25.64	27.50	1.535	0.857	21.9
Left tilted	GPRS 3TS	251/848.8	1:2.77	0.547	0.315	0.03	25.64	27.50	1.535	0.840	21.9
Right cheek	GPRS 3TS	251/848.8	1:2.77	0.611	0.324	0.03	25.64	27.50	1.535	0.938	21.9
Right tilted	GPRS 3TS	251/848.8	1:2.77	0.620	0.320	0.05	25.64	27.50	1.535	0.952	21.9
Left cheek	GPRS 3TS	128/824.2	1:2.77	0.544	0.339	0.06	25.59	27.50	1.552	0.844	21.9
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.532	0.329	0.06	25.51	27.50	1.581	0.841	21.9
Left tilted	GPRS 3TS	128/824.2	1:2.77	0.526	0.322	0.01	25.59	27.50	1.552	0.816	21.9
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.516	0.318	0.09	25.51	27.50	1.581	0.816	21.9
Right cheek	GPRS 3TS	128/824.2	1:2.77	0.599	0.309	0.01	25.59	27.50	1.552	0.930	21.9
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.582	0.301	0.03	25.51	27.50	1.581	0.920	21.9
Right tilted	GPRS 3TS	128/824.2	1:2.77	0.577	0.299	0.03	25.59	27.50	1.552	0.896	21.9
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.572	0.289	0.08	25.51	27.50	1.581	0.904	21.9
Hotspot&Body worn Test data(Separate 10mm) Set2											
Front side	GPRS 3TS	251/848.8	1:2.77	0.509	0.314	0.06	28.72	30.50	1.507	0.767	21.9
Back side	GPRS 3TS	251/848.8	1:2.77	0.836	0.508	-0.06	28.72	30.50	1.507	1.260	21.9
Back side Headset	GPRS 3TS	251/848.8	1:2.77	0.811	0.499	0.02	28.72	30.50	1.507	1.222	21.9
Left side	GPRS 3TS	251/848.8	1:2.77	0.392	0.254	0.04	28.72	30.50	1.507	0.591	21.9
Right side	GPRS 3TS	251/848.8	1:2.77	0.167	0.107	0.08	28.72	30.50	1.507	0.252	21.9
Top side	GPRS 3TS	251/848.8	1:2.77	0.871	0.471	0.00	28.72	30.50	1.507	1.313	21.9
Top side Repeated	GPRS 3TS	251/848.8	1:2.77	0.866	0.469	0.04	28.72	30.50	1.507	1.305	21.9
Back side	GPRS 3TS	128/824.2	1:2.77	0.756	0.477	0.06	28.56	30.50	1.563	1.182	21.9
Back side	GPRS 3TS	190/836.6	1:2.77	0.766	0.462	0.09	28.51	30.50	1.581	1.211	21.9
Top side	GPRS 3TS	128/824.2	1:2.77	0.710	0.356	0.01	28.56	30.50	1.563	1.110	21.9
Top side	GPRS 3TS	190/836.6	1:2.77	0.752	0.409	0.04	28.51	30.50	1.581	1.189	21.9
Back side Battery	GPRS 3TS	251/848.8	1:2.77	0.786	0.379	0.02	28.72	30.50	1.507	1.185	21.9
Top side Battery	GPRS 3TS	251/848.8	1:2.77	0.802	0.395	-0.13	28.72	30.50	1.507	1.209	21.9
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)	Scale d factor	Scale d SAR 10g (W/kg)	Liquid Temp. (°C)
Product specific 10g SAR Test data(Separate 0mm) Set2											
Back side	GPRS 3TS	251/848.8	1:2.77	1.360	0.534	0.07	28.62	30.50	1.542	0.823	21.9
Top side	GPRS 3TS	251/848.8	1:2.77	2.240	0.927	-0.02	28.62	30.50	1.542	1.429	21.9
Top side Battery	GPRS 3TS	251/848.8	1:2.77	2.120	0.915	-0.06	28.62	30.50	1.542	1.411	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
Top side 10mm	251/848.8	0.871	0.866	1.006	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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8.3.2 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 Set1											
Left cheek	GPRS 4TS	512/1850.2	1:2.075	0.726	0.407	-0.09	21.76	22.50	1.186	0.861	21.9
Left tilted	GPRS 4TS	512/1850.2	1:2.075	0.275	0.158	-0.19	21.76	22.50	1.186	0.326	21.9
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.277	0.140	0.01	21.76	22.50	1.186	0.329	21.9
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.217	0.139	0.19	21.76	22.50	1.186	0.257	21.9
Left cheek	GPRS 4TS	661/1880	1:2.075	0.762	0.428	-0.01	20.83	22.50	1.469	1.119	21.9
Left cheek	GPRS 4TS	810/1909.8	1:2.075	0.823	0.440	0.05	21.35	22.50	1.303	1.072	21.9
Left cheek Repeated	GPRS 4TS	810/1909.8	1:2.075	0.811	0.437	0.13	21.35	22.50	1.303	1.057	21.9
Hotspot&Body worn Test data(Separate 10mm) Set2											
Front side	GPRS 4TS	512/1850.2	1:2.075	0.326	0.202	0.00	25.10	27.00	1.549	0.505	21.9
Back side	GPRS 4TS	512/1850.2	1:2.075	0.517	0.271	-0.08	25.10	27.00	1.549	0.801	21.9
Right side	GPRS 4TS	512/1850.2	1:2.075	0.307	0.159	-0.01	25.10	27.00	1.549	0.476	21.9
Top side	GPRS 4TS	512/1850.2	1:2.075	0.225	0.122	-0.16	25.10	27.00	1.549	0.349	21.9
Back side	GPRS 4TS	661/1880	1:2.075	0.501	0.261	0.02	25.00	27.00	1.585	0.794	21.9
Back side	GPRS 4TS	810/1909.8	1:2.075	0.499	0.255	0.10	25.03	27.00	1.574	0.785	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	810/1909.8	0.823	0.811	1.015	N/A	N/A

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

2) A second repeated measurement was 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.

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 Set1											
Left cheek	RMC	9400/1880	1:1	0.948	0.534	0.01	17.99	18.50	1.125	1.067	21.6
Left cheek Repeated	RMC	9400/1880	1:1	0.933	0.523	0.02	17.99	18.50	1.125	1.050	21.6
Left tilted	RMC	9400/1880	1:1	0.384	0.213	-0.07	17.99	18.50	1.125	0.432	21.6
Right cheek	RMC	9400/1880	1:1	0.423	0.282	0.02	17.99	18.50	1.125	0.476	21.6
Right tilted	RMC	9400/1880	1:1	0.322	0.197	0.01	17.99	18.50	1.125	0.362	21.6
Left cheek	RMC	9262/1852.4	1:1	0.802	0.462	0.17	17.96	18.50	1.132	0.908	21.6
Left cheek	RMC	9538/1907.6	1:1	0.799	0.458	-0.09	17.93	18.50	1.140	0.911	21.6
Hotspot&Body worn Test data(Separate 10mm) Set2											
Front side	RMC	9400/1880	1:1	0.473	0.289	0.05	22.10	22.50	1.096	0.518	21.6
Back side	RMC	9400/1880	1:1	0.819	0.429	0.05	22.10	22.50	1.096	0.898	21.6
Back side Repeated	RMC	9400/1880	1:1	0.811	0.240	-0.14	22.10	22.50	1.096	0.889	21.6
Right side	RMC	9400/1880	1:1	0.534	0.292	0.11	22.10	22.50	1.096	0.585	21.6
Top side	RMC	9400/1880	1:1	0.338	0.189	-0.14	22.10	22.50	1.096	0.370	21.6
Back side	RMC	9262/1852.4	1:1	0.789	0.408	-0.09	22.00	22.50	1.122	0.885	21.6
Back side	RMC	9538/1907.6	1:1	0.777	0.401	0.11	22.02	22.50	1.117	0.868	21.6

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	9400/1880	0.948	0.933	1.016	N/A	N/A
Back side 10mm	9400/1880	0.819	0.811	1.010	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 Set1											
Left cheek	RMC	1412/1732.4	1:1	0.745	0.433	0.05	18.71	19.50	1.199	0.893	22.0
Left tilted	RMC	1412/1732.4	1:1	0.313	0.183	0.01	18.71	19.50	1.199	0.375	22.0
Right cheek	RMC	1412/1732.4	1:1	0.365	0.246	-0.08	18.71	19.50	1.199	0.438	22.0
Right tilted	RMC	1412/1732.4	1:1	0.269	0.168	-0.05	18.71	19.50	1.199	0.323	22.0
Left cheek	RMC	1312/1712.4	1:1	0.658	0.388	-0.11	18.66	19.50	1.213	0.798	22.0
Left cheek	RMC	1513/1752.6	1:1	0.819	0.477	0.05	18.70	19.50	1.202	0.984	21.6
Left cheek Repeated	RMC	1513/1752.6	1:1	0.802	0.466	0.17	18.70	19.50	1.202	0.964	21.6
Hotspot&Body worn Test data(Separate 10mm) Set2											
Front side	RMC	1412/1732.4	1:1	0.317	0.195	0.04	21.74	22.50	1.191	0.378	21.6
Back side	RMC	1412/1732.4	1:1	0.590	0.341	-0.12	21.74	22.50	1.191	0.703	21.6
Right side	RMC	1412/1732.4	1:1	0.398	0.219	0.05	21.74	22.50	1.191	0.474	21.6
Top side	RMC	1412/1732.4	1:1	0.226	0.127	-0.01	21.74	22.50	1.191	0.269	21.6

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	1513/1752.6	0.819	0.802	1.021	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.



8.3.5 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 Set1											
Left cheek	RMC	4182/836.4	1:1	0.581	0.358	-0.04	23.20	24.00	1.202	0.698	21.6
Left tilted	RMC	4182/836.4	1:1	0.552	0.315	-0.19	23.20	24.00	1.202	0.664	22.0
Right cheek	RMC	4182/836.4	1:1	0.764	0.412	0.12	23.20	24.00	1.202	0.918	22.0
Right tilted	RMC	4182/836.4	1:1	0.754	0.399	-0.17	23.20	24.00	1.202	0.906	22.0
Right cheek	RMC	4132/826.4	1:1	0.798	0.451	-0.14	23.16	24.00	1.213	0.968	22.0
Right cheek	RMC	4233/846.6	1:1	0.808	0.461	-0.02	23.09	24.00	1.233	0.996	22.0
Right cheek Repeated	RMC	4233/846.6	1:1	0.801	0.455	0.12	23.09	24.00	1.233	0.988	22.0
Right tilted	RMC	4132/826.4	1:1	0.782	0.458	0.06	23.16	24.00	1.213	0.949	22.0
Right tilted	RMC	4233/846.6	1:1	0.796	0.474	-0.05	23.09	24.00	1.233	0.981	22.0
Hotspot&Body worn Test data(Separate 10mm) Set2											
Front side	RMC	4233/846.6	1:1	0.329	0.196	-0.16	21.19	22.00	1.205	0.396	21.9
Back side	RMC	4233/846.6	1:1	0.503	0.300	-0.07	21.19	22.00	1.205	0.606	21.9
Left side	RMC	4233/846.6	1:1	0.239	0.156	0.08	21.19	22.00	1.205	0.288	21.9
Right side	RMC	4233/846.6	1:1	0.103	0.065	-0.16	21.19	22.00	1.205	0.124	21.9
Top side	RMC	4233/846.6	1:1	0.494	0.264	0.01	21.19	22.00	1.205	0.595	21.6

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	4233/846.6	0.808	0.801	1.009	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.						

8.3.6 SAR Result of LTE Band 5

Ant 0 Test Record												
Test position	B W.	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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data (1RB) Set1												
Left cheek	10	QPSK 1_25	20525/836.5	1:1	0.877	0.535	0.10	24.29	25.00	1.178	1.033	22.1
Left tilted	10	QPSK 1_25	20525/836.5	1:1	0.822	0.462	-0.05	24.29	25.00	1.178	0.968	22.1
Right cheek	10	QPSK 1_25	20525/836.5	1:1	1.160	0.657	0.02	24.29	25.00	1.178	1.366	22.1
Right cheek Repeated	10	QPSK 1_25	20525/836.5	1:1	1.060	0.651	-0.11	24.29	25.00	1.178	1.249	22.1
Right tilted	10	QPSK 1_25	20525/836.5	1:1	1.110	0.589	0.04	24.29	25.00	1.178	1.308	22.1
Right cheek Battery	10	QPSK 1_25	20525/836.5	1:1	0.991	0.523	0.03	24.29	25.00	1.178	1.167	22.1
Head Test Data (50%RB) Set1												
Left cheek	10	QPSK 25_13	20525/836.5	1:1	0.721	0.440	0.03	23.51	24.00	1.119	0.807	22.1
Left tilted	10	QPSK 25_13	20525/836.5	1:1	0.675	0.380	-0.06	23.51	24.00	1.119	0.755	22.1
Right cheek	10	QPSK 25_13	20525/836.5	1:1	0.932	0.524	0.09	23.51	24.00	1.119	1.043	22.1
Right tilted	10	QPSK 25_13	20525/836.5	1:1	0.900	0.476	-0.14	23.51	24.00	1.119	1.007	22.1
Head Test Data (100%RB) Set1												
Left cheek	10	QPSK 50_0	20525/836.5	1:1	0.799	0.501	-0.15	23.46	24.00	1.132	0.904	22.1
Left tilted	10	QPSK 50_0	20525/836.5	1:1	0.745	0.488	-0.08	23.46	24.00	1.132	0.843	22.1
Right cheek	10	QPSK 50_0	20525/836.5	1:1	0.947	0.535	0.13	23.46	24.00	1.132	1.072	22.1
Right tilted	10	QPSK 50_0	20525/836.5	1:1	0.922	0.515	-0.19	23.46	24.00	1.132	1.044	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 1_25	20525/836.5	1:1	0.877	0.535	0.10	24.29	22.00	0.590	0.517	22.1
Left tilted	10	QPSK 1_25	20525/836.5	1:1	0.822	0.462	-0.05	24.29	22.00	0.590	0.485	22.1
Right cheek	10	QPSK 1_25	20525/836.5	1:1	1.160	0.657	0.02	24.29	22.00	0.590	0.684	22.1
Right cheek Repeated	10	QPSK 1_25	20525/836.5	1:1	1.060	0.651	-0.11	24.29	22.00	0.590	0.625	22.1
Right tilted	10	QPSK 1_25	20525/836.5	1:1	1.110	0.589	0.04	24.29	22.00	0.590	0.655	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 25_13	20525/836.5	1:1	0.721	0.440	0.03	23.51	22.00	0.706	0.509	22.1
Left tilted	10	QPSK 25_13	20525/836.5	1:1	0.675	0.380	-0.06	23.51	22.00	0.706	0.477	22.1
Right cheek	10	QPSK 25_13	20525/836.5	1:1	0.932	0.524	0.09	23.51	22.00	0.706	0.658	22.1
Right tilted	10	QPSK 25_13	20525/836.5	1:1	0.900	0.476	-0.14	23.51	22.00	0.706	0.635	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 50_0	20525/836.5	1:1	0.799	0.501	-0.15	23.46	22.00	0.714	0.570	22.1
Left tilted	10	QPSK 50_0	20525/836.5	1:1	0.745	0.488	-0.08	23.46	22.00	0.714	0.532	22.1
Right cheek	10	QPSK 50_0	20525/836.5	1:1	0.947	0.535	0.13	23.46	22.00	0.714	0.676	22.1
Right tilted	10	QPSK 50_0	20525/836.5	1:1	0.922	0.515	-0.19	23.46	22.00	0.714	0.658	22.1



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Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	10	QPSK 1_25	20525/836.5	1:1	0.738	0.428	-0.08	24.29	25.00	1.178	0.869	22.1
Back side	10	QPSK 1_25	20525/836.5	1:1	0.903	0.541	-0.11	24.29	25.00	1.178	1.064	22.1
Back side Repeated	10	QPSK 1_25	20525/836.5	1:1	0.899	0.538	-0.15	24.29	25.00	1.178	1.059	22.1
Left side	10	QPSK 1_25	20525/836.5	1:1	0.309	0.201	-0.13	24.29	25.00	1.178	0.364	22.1
Right side	10	QPSK 1_25	20525/836.5	1:1	0.157	0.101	-0.03	24.29	25.00	1.178	0.185	22.1
Top side	10	QPSK 1_25	20525/836.5	1:1	0.780	0.424	0.01	24.29	25.00	1.178	0.919	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	10	QPSK 25_13	20525/836.5	1:1	0.628	0.371	-0.18	23.51	24.00	1.119	0.703	22.1
Back side	10	QPSK 25_13	20525/836.5	1:1	0.778	0.462	-0.18	23.51	24.00	1.119	0.871	22.1
Left side	10	QPSK 25_13	20525/836.5	1:1	0.256	0.166	-0.15	23.51	24.00	1.119	0.286	22.1
Right side	10	QPSK 25_13	20525/836.5	1:1	0.125	0.080	-0.17	23.51	24.00	1.119	0.140	22.1
Top side	10	QPSK 25_13	20525/836.5	1:1	0.605	0.316	-0.16	23.51	24.00	1.119	0.677	22.1
Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												
Front side	10	QPSK 50_0	20525/836.5	1:1	0.611	0.367	0.16	23.46	24.00	1.132	0.692	22.1
Back side	10	QPSK 50_0	20525/836.5	1:1	0.756	0.445	0.11	23.46	24.00	1.132	0.856	22.1
Top side	10	QPSK 50_0	20525/836.5	1:1	0.599	0.352	0.01	23.46	24.00	1.132	0.678	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 1_25	20525/836.5	1:1	0.738	0.428	-0.08	24.29	23.00	0.743	0.548	22.1
Back side	10	QPSK 1_25	20525/836.5	1:1	0.903	0.541	-0.11	24.29	23.00	0.743	0.671	22.1
Back side Repeated	10	QPSK 1_25	20525/836.5	1:1	0.899	0.538	-0.15	24.29	23.00	0.743	0.668	22.1
Left side	10	QPSK 1_25	20525/836.5	1:1	0.309	0.201	-0.13	24.29	23.00	0.743	0.230	22.1
Right side	10	QPSK 1_25	20525/836.5	1:1	0.157	0.101	-0.03	24.29	23.00	0.743	0.117	22.1
Top side	10	QPSK 1_25	20525/836.5	1:1	0.780	0.424	0.01	24.29	23.00	0.743	0.580	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 25_13	20525/836.5	1:1	0.628	0.371	-0.18	23.51	23.00	0.889	0.558	22.1
Back side	10	QPSK 25_13	20525/836.5	1:1	0.778	0.462	-0.18	23.51	23.00	0.889	0.692	22.1
Left side	10	QPSK 25_13	20525/836.5	1:1	0.256	0.166	-0.15	23.51	23.00	0.889	0.228	22.1
Right side	10	QPSK 25_13	20525/836.5	1:1	0.125	0.080	-0.17	23.51	23.00	0.889	0.111	22.1
Top side	10	QPSK 25_13	20525/836.5	1:1	0.605	0.316	-0.16	23.51	23.00	0.889	0.538	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 100%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 50_0	20525/836.5	1:1	0.611	0.367	0.16	23.46	23.00	0.899	0.549	22.1
Back side	10	QPSK 50_0	20525/836.5	1:1	0.756	0.445	0.11	23.46	23.00	0.899	0.680	22.1
Top side	10	QPSK 50_0	20525/836.5	1:1	0.599	0.352	0.01	23.46	23.00	0.899	0.539	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	20525/836.5	1.160	1.060	1.094	N/A	N/A
Back side 10mm	20525/836.5	0.903	0.899	1.004	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).



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- 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.

8.3.7 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) Set1												
Left cheek	20	QPSK 1 50	21100/2535	1:1	0.375	0.210	0.18	18.23	19.00	1.194	0.448	22.1
Left tilted	20	QPSK 1 50	21100/2535	1:1	0.139	0.074	0.07	18.23	19.00	1.194	0.166	22.1
Right cheek	20	QPSK 1 50	21100/2535	1:1	0.834	0.392	-0.03	18.23	19.00	1.194	0.996	22.1
Right cheek Repeated	20	QPSK 1 50	21100/2535	1:1	0.821	0.388	0.02	18.23	19.00	1.194	0.980	22.1
Right tilted	20	QPSK 1 50	21100/2535	1:1	0.181	0.097	0.07	18.23	19.00	1.194	0.216	22.1
Right cheek	20	QPSK 1 50	20850/2510	1:1	0.803	0.401	-0.16	18.21	19.00	1.199	0.963	22.1
Right cheek	20	QPSK 1 50	21350/2560	1:1	0.767	0.379	-0.11	18.09	19.00	1.233	0.946	22.1
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50 50	20850/2510	1:1	0.321	0.186	0.11	18.29	19.00	1.178	0.378	22.1
Left tilted	20	QPSK 50 50	20850/2510	1:1	0.145	0.078	0.14	18.29	19.00	1.178	0.171	22.1
Right cheek	20	QPSK 50 50	20850/2510	1:1	0.816	0.384	0.09	18.29	19.00	1.178	0.961	22.1
Right tilted	20	QPSK 50 50	20850/2510	1:1	0.191	0.101	-0.12	18.29	19.00	1.178	0.225	22.1
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.727	0.359	0.03	18.25	19.00	1.189	0.864	22.1
Right cheek	20	QPSK 50 50	21350/2560	1:1	0.777	0.385	0.12	18.14	19.00	1.219	0.947	22.1
Head Test Data (100%RB) Set1												
Right cheek	20	QPSK 100 0	20850/2510	1:1	0.789	0.361	0.15	18.24	19.00	1.191	0.940	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1 50	21100/2535	1:1	0.375	0.210	0.18	18.23	16.00	0.598	0.224	22.1
Left tilted	20	QPSK 1 50	21100/2535	1:1	0.139	0.074	0.07	18.23	16.00	0.598	0.083	22.1
Right cheek	20	QPSK 1 50	21100/2535	1:1	0.834	0.392	-0.03	18.23	16.00	0.598	0.499	22.1
Right cheek Repeated	20	QPSK 1 50	21100/2535	1:1	0.821	0.388	0.02	18.23	16.00	0.598	0.491	22.1
Right tilted	20	QPSK 1 50	21100/2535	1:1	0.181	0.097	0.07	18.23	16.00	0.598	0.108	22.1
Right cheek	20	QPSK 1 50	20850/2510	1:1	0.803	0.401	-0.16	18.21	16.00	0.601	0.483	22.1
Right cheek	20	QPSK 1 50	21350/2560	1:1	0.767	0.379	-0.11	18.09	16.00	0.618	0.474	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50 50	20850/2510	1:1	0.321	0.186	0.11	18.29	16.00	0.590	0.189	22.1
Left tilted	20	QPSK 50 50	20850/2510	1:1	0.145	0.078	0.14	18.29	16.00	0.590	0.086	22.1
Right cheek	20	QPSK 50 50	20850/2510	1:1	0.816	0.384	0.09	18.29	16.00	0.590	0.481	22.1
Right tilted	20	QPSK 50 50	20850/2510	1:1	0.191	0.101	-0.12	18.29	16.00	0.590	0.113	22.1
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.727	0.359	0.03	18.25	16.00	0.596	0.433	22.1
Right cheek	20	QPSK 50 50	21350/2560	1:1	0.777	0.385	0.12	18.14	16.00	0.611	0.475	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	20	QPSK 100 0	20850/2510	1:1	0.789	0.361	0.15	18.24	16.00	0.597	0.471	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1 50	21100/2535	1:1	0.303	0.158	-0.11	18.23	19.00	1.194	0.362	22.1
Back side	20	QPSK 1 50	21100/2535	1:1	0.401	0.209	-0.03	18.23	19.00	1.194	0.479	22.1
Left side	20	QPSK 1 50	21100/2535	1:1	0.384	0.189	-0.16	18.23	19.00	1.194	0.458	22.1
Top side	20	QPSK 1 50	21100/2535	1:1	0.076	0.039	-0.19	18.23	19.00	1.194	0.091	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50 50	20850/2510	1:1	0.294	0.148	-0.08	18.29	19.00	1.178	0.346	22.1
Back side	20	QPSK 50 50	20850/2510	1:1	0.504	0.248	-0.06	18.29	19.00	1.178	0.594	22.1



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Left side	20	QPSK 50 50	20850/2510	1:1	0.366	0.188	0.04	18.29	19.00	1.178	0.431	22.1
Top side	20	QPSK 50 50	20850/2510	1:1	0.072	0.041	0.08	18.29	19.00	1.178	0.085	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 1 50	21100/2535	1:1	0.303	0.158	-0.11	18.23	16.00	0.598	0.181	22.1
Back side	20	QPSK 1 50	21100/2535	1:1	0.401	0.209	-0.03	18.23	16.00	0.598	0.240	22.1
Left side	20	QPSK 1 50	21100/2535	1:1	0.384	0.189	-0.16	18.23	16.00	0.598	0.230	22.1
Top side	20	QPSK 1 50	21100/2535	1:1	0.076	0.039	-0.19	18.23	16.00	0.598	0.045	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 50 50	20850/2510	1:1	0.294	0.148	-0.08	18.29	16.00	0.590	0.173	22.1
Back side	20	QPSK 50 50	20850/2510	1:1	0.504	0.248	-0.06	18.29	16.00	0.590	0.297	22.1
Left side	20	QPSK 50 50	20850/2510	1:1	0.366	0.188	0.04	18.29	16.00	0.590	0.216	22.1
Top side	20	QPSK 50 50	20850/2510	1:1	0.072	0.041	0.08	18.29	16.00	0.590	0.042	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	21100/2535	0.834	0.821	1.016	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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8.3.8 SAR Result of LTE Band 12

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) Set1												
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.514	0.329	-0.07	24.07	25.00	1.239	0.637	22.1
Left tilted	10	QPSK 1_25	23095/707.5	1:1	0.442	0.264	-0.19	24.07	25.00	1.239	0.548	22.1
Right cheek	10	QPSK 1_25	23095/707.5	1:1	0.872	0.531	0.03	24.07	25.00	1.239	1.080	22.1
Right cheek Repeated	10	QPSK 1_25	23095/707.5	1:1	0.866	0.521	-0.05	24.07	25.00	1.239	1.073	22.1
Right tilted	10	QPSK 1_25	23095/707.5	1:1	0.742	0.379	-0.04	24.07	25.00	1.239	0.919	22.1
Head Test Data (50%RB) Set1												
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.410	0.266	0.09	23.15	24.00	1.216	0.499	22.1
Left tilted	10	QPSK 25_13	23095/707.5	1:1	0.353	0.212	-0.11	23.15	24.00	1.216	0.429	22.1
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.700	0.389	0.08	23.15	24.00	1.216	0.851	22.1
Right tilted	10	QPSK 25_13	23095/707.5	1:1	0.598	0.305	0.11	23.15	24.00	1.216	0.727	22.1
Head Test Data (100%RB) Set1												
Right cheek	10	QPSK 50_0	23095/707.5	1:1	0.696	0.386	0.13	23.12	24.00	1.225	0.853	22.1
Right tilted	10	QPSK 50_0	23095/707.5	1:1	0.588	0.298	0.18	23.12	24.00	1.225	0.720	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.514	0.329	-0.07	24.07	22.00	0.621	0.319	22.1
Left tilted	10	QPSK 1_25	23095/707.5	1:1	0.442	0.264	-0.19	24.07	22.00	0.621	0.274	22.1
Right cheek	10	QPSK 1_25	23095/707.5	1:1	0.872	0.531	0.03	24.07	22.00	0.621	0.542	22.1
Right cheek Repeated	10	QPSK 1_25	23095/707.5	1:1	0.866	0.521	-0.05	24.07	22.00	0.621	0.538	22.1
Right tilted	10	QPSK 1_25	23095/707.5	1:1	0.742	0.379	-0.04	24.07	22.00	0.621	0.461	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.410	0.266	0.09	23.15	22.00	0.767	0.314	22.1
Left tilted	10	QPSK 25_13	23095/707.5	1:1	0.353	0.212	-0.11	23.15	22.00	0.767	0.271	22.1
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.700	0.389	0.08	23.15	22.00	0.767	0.537	22.1
Right tilted	10	QPSK 25_13	23095/707.5	1:1	0.598	0.305	0.11	23.15	22.00	0.767	0.459	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	10	QPSK 50_0	23095/707.5	1:1	0.696	0.386	0.13	23.12	22.00	0.773	0.538	22.1
Right tilted	10	QPSK 50_0	23095/707.5	1:1	0.588	0.298	0.18	23.12	22.00	0.773	0.455	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	10	QPSK 1_25	23095/707.5	1:1	0.304	0.186	-0.05	24.07	25.00	1.239	0.377	22.1
Back side	10	QPSK 1_25	23095/707.5	1:1	0.407	0.245	-0.03	24.07	25.00	1.239	0.504	22.1
Left side	10	QPSK 1_25	23095/707.5	1:1	0.241	0.160	-0.06	24.07	25.00	1.239	0.299	22.1
Right side	10	QPSK 1_25	23095/707.5	1:1	0.112	0.074	0.05	24.07	25.00	1.239	0.139	22.1
Top side	10	QPSK 1_25	23095/707.5	1:1	0.297	0.160	-0.04	24.07	25.00	1.239	0.368	21.6
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.246	0.154	0.18	23.15	24.00	1.216	0.299	22.1
Back side	10	QPSK 25_13	23095/707.5	1:1	0.332	0.197	-0.19	23.15	24.00	1.216	0.404	22.1
Left side	10	QPSK 25_13	23095/707.5	1:1	0.194	0.129	-0.05	23.15	24.00	1.216	0.236	22.1



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Right side	10	QPSK 25_13	23095/707.5	1:1	0.090	0.060	0.10	23.15	24.00	1.216	0.109	22.1
Top side	10	QPSK 25_13	23095/707.5	1:1	0.237	0.121	-0.05	23.15	24.00	1.216	0.288	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	23095/707.5	0.872	0.866	1.007	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was 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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8.3.9 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) Set1												
Left cheek	10	QPSK 1_25	23230/782	1:1	0.546	0.336	0.04	24.02	25.00	1.253	0.684	22.1
Left tilted	10	QPSK 1_25	23230/782	1:1	0.534	0.308	-0.07	24.02	25.00	1.253	0.669	22.1
Right cheek	10	QPSK 1_25	23230/782	1:1	0.763	0.454	0.02	24.02	25.00	1.253	0.956	22.1
Right tilted	10	QPSK 1_25	23230/782	1:1	0.730	0.379	0.05	24.02	25.00	1.253	0.915	22.1
Head Test Data (50%RB) Set1												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.436	0.267	0.11	23.12	24.00	1.225	0.534	22.1
Left tilted	10	QPSK 25_0	23230/782	1:1	0.422	0.243	-0.12	23.12	24.00	1.225	0.517	22.1
Right cheek	10	QPSK 25_0	23230/782	1:1	0.599	0.339	-0.09	23.12	24.00	1.225	0.734	22.1
Right tilted	10	QPSK 25_0	23230/782	1:1	0.580	0.301	0.01	23.12	24.00	1.225	0.711	22.1
Head Test Data (100%RB) Set1												
Right cheek	10	QPSK 50_0	23230/782	1:1	0.612	0.344	0.02	23.07	24.00	1.239	0.758	22.1
Right tilted	10	QPSK 50_0	23230/782	1:1	0.598	0.325	-0.17	23.07	24.00	1.239	0.741	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 1_25	23230/782	1:1	0.546	0.336	0.04	24.02	22.00	0.628	0.343	22.1
Left tilted	10	QPSK 1_25	23230/782	1:1	0.534	0.308	-0.07	24.02	22.00	0.628	0.335	22.1
Right cheek	10	QPSK 1_25	23230/782	1:1	0.763	0.454	0.02	24.02	22.00	0.628	0.479	22.1
Right tilted	10	QPSK 1_25	23230/782	1:1	0.730	0.379	0.05	24.02	22.00	0.628	0.458	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.436	0.267	0.11	23.12	22.00	0.773	0.337	22.1
Left tilted	10	QPSK 25_0	23230/782	1:1	0.422	0.243	-0.12	23.12	22.00	0.773	0.326	22.1
Right cheek	10	QPSK 25_0	23230/782	1:1	0.599	0.339	-0.09	23.12	22.00	0.773	0.463	22.1
Right tilted	10	QPSK 25_0	23230/782	1:1	0.580	0.301	0.01	23.12	22.00	0.773	0.448	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	10	QPSK 50_0	23230/782	1:1	0.612	0.344	0.02	23.07	22.00	0.782	0.479	22.1
Right tilted	10	QPSK 50_0	23230/782	1:1	0.598	0.325	-0.17	23.07	22.00	0.782	0.468	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	10	QPSK 1_25	23230/782	1:1	0.632	0.360	-0.05	24.02	25.00	1.253	0.792	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.794	0.469	-0.01	24.02	25.00	1.253	0.995	22.1
Left side	10	QPSK 1_25	23230/782	1:1	0.443	0.294	0.11	24.02	25.00	1.253	0.555	22.1
Right side	10	QPSK 1_25	23230/782	1:1	0.166	0.108	-0.18	24.02	25.00	1.253	0.208	22.1
Top side	10	QPSK 1_25	23230/782	1:1	0.640	0.342	-0.09	24.02	25.00	1.253	0.802	21.6
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	10	QPSK 25_0	23230/782	1:1	0.493	0.291	-0.13	23.12	24.00	1.225	0.604	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.646	0.371	-0.02	23.12	24.00	1.225	0.791	22.1
Left side	10	QPSK 25_0	23230/782	1:1	0.350	0.230	-0.18	23.12	24.00	1.225	0.429	22.1
Right side	10	QPSK 25_0	23230/782	1:1	0.135	0.089	0.07	23.12	24.00	1.225	0.165	22.1
Top side	10	QPSK 25_0	23230/782	1:1	0.504	0.265	0.04	23.12	24.00	1.225	0.617	22.1



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Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												
Back side	10	QPSK 50_0	23230/782	1:1	0.633	0.361	0.19	23.07	24.00	1.239	0.784	22.1
Top side	10	QPSK 50_0	23230/782	1:1	0.532	0.321	0.14	23.07	24.00	1.239	0.659	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 1_25	23230/782	1:1	0.632	0.360	-0.05	24.02	23.00	0.791	0.500	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.794	0.469	-0.01	24.02	23.00	0.791	0.628	22.1
Left side	10	QPSK 1_25	23230/782	1:1	0.443	0.294	0.11	24.02	23.00	0.791	0.350	22.1
Right side	10	QPSK 1_25	23230/782	1:1	0.166	0.108	-0.18	24.02	23.00	0.791	0.131	22.1
Top side	10	QPSK 1_25	23230/782	1:1	0.640	0.342	-0.09	24.02	23.00	0.791	0.506	21.6
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	10	QPSK 25_0	23230/782	1:1	0.493	0.291	-0.13	23.12	23.00	0.973	0.480	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.646	0.371	-0.02	23.12	23.00	0.973	0.629	22.1
Left side	10	QPSK 25_0	23230/782	1:1	0.350	0.230	-0.18	23.12	23.00	0.973	0.341	22.1
Right side	10	QPSK 25_0	23230/782	1:1	0.135	0.089	0.07	23.12	23.00	0.973	0.131	22.1
Top side	10	QPSK 25_0	23230/782	1:1	0.504	0.265	0.04	23.12	23.00	0.973	0.490	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 100%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Back side	10	QPSK 50_0	23230/782	1:1	0.633	0.361	0.19	23.07	23.00	0.984	0.623	22.1
Top side	10	QPSK 50_0	23230/782	1:1	0.532	0.321	0.14	23.07	23.00	0.984	0.523	22.1



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8.3.10 SAR Result of LTE Band 25

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) Set1												
Left cheek	20	QPSK 1_99	26365/1882.5	1:1	0.781	0.433	0.07	17.97	18.50	1.130	0.883	21.9
Left tilted	20	QPSK 1_99	26365/1882.5	1:1	0.329	0.188	-0.02	17.97	18.50	1.130	0.372	21.9
Right cheek	20	QPSK 1_99	26365/1882.5	1:1	0.323	0.212	-0.02	17.97	18.50	1.130	0.365	21.9
Right tilted	20	QPSK 1_99	26365/1882.5	1:1	0.260	0.161	0.05	17.97	18.50	1.130	0.294	21.9
Left cheek	20	QPSK 1_99	26140/1860	1:1	0.723	0.396	0.02	17.77	18.50	1.183	0.855	21.9
Left cheek	20	QPSK 1_0	26590/1905	1:1	0.767	0.436	0.05	17.77	18.50	1.183	0.907	21.9
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_50	26365/1882.5	1:1	0.737	0.412	0.13	17.96	18.50	1.132	0.834	21.9
Left tilted	20	QPSK 50_50	26365/1882.5	1:1	0.321	0.182	0.13	17.96	18.50	1.132	0.363	21.9
Right cheek	20	QPSK 50_50	26365/1882.5	1:1	0.290	0.191	0.03	17.96	18.50	1.132	0.328	21.9
Right tilted	20	QPSK 50_50	26365/1882.5	1:1	0.252	0.154	-0.17	17.96	18.50	1.132	0.285	21.9
Left cheek	20	QPSK 50_25	26140/1860	1:1	0.688	0.384	0.06	17.90	18.50	1.148	0.790	21.9
Left cheek	20	QPSK 50_25	26590/1905	1:1	0.745	0.415	0.09	17.94	18.50	1.138	0.848	21.9
Head Test Data (100%RB) Set1												
Left cheek	20	QPSK 100_0	26590/1905	1:1	0.774	0.458	-0.10	17.91	18.50	1.146	0.887	21.9
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1_99	26365/1882.5	1:1	0.781	0.433	0.07	17.97	15.50	0.566	0.442	21.9
Left tilted	20	QPSK 1_99	26365/1882.5	1:1	0.329	0.188	-0.02	17.97	15.50	0.566	0.186	21.9
Right cheek	20	QPSK 1_99	26365/1882.5	1:1	0.323	0.212	-0.02	17.97	15.50	0.566	0.183	21.9
Right tilted	20	QPSK 1_99	26365/1882.5	1:1	0.260	0.161	0.05	17.97	15.50	0.566	0.147	21.9
Left cheek	20	QPSK 1_99	26140/1860	1:1	0.723	0.396	0.02	17.77	15.50	0.593	0.429	21.9
Left cheek	20	QPSK 1_0	26590/1905	1:1	0.767	0.436	0.05	17.77	15.50	0.593	0.455	21.9
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50_50	26365/1882.5	1:1	0.737	0.412	0.13	17.96	15.50	0.568	0.419	21.9
Left tilted	20	QPSK 50_50	26365/1882.5	1:1	0.321	0.182	0.13	17.96	15.50	0.568	0.182	21.9
Right cheek	20	QPSK 50_50	26365/1882.5	1:1	0.290	0.191	0.03	17.96	15.50	0.568	0.165	21.9
Right tilted	20	QPSK 50_50	26365/1882.5	1:1	0.252	0.154	-0.17	17.96	15.50	0.568	0.143	21.9
Left cheek	20	QPSK 50_25	26140/1860	1:1	0.688	0.384	0.06	17.90	15.50	0.575	0.396	21.9
Left cheek	20	QPSK 50_25	26590/1905	1:1	0.745	0.415	0.09	17.94	15.50	0.570	0.425	21.9
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 100_0	26590/1905	1:1	0.774	0.458	-0.10	17.91	15.50	0.574	0.444	21.9
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_50	26140/1860	1:1	0.394	0.239	0.19	21.61	22.50	1.227	0.483	22.1
Back side	20	QPSK 1_50	26140/1860	1:1	0.644	0.350	0.19	21.61	22.50	1.227	0.790	22.1
Right side	20	QPSK 1_50	26140/1860	1:1	0.428	0.230	0.08	21.61	22.50	1.227	0.525	22.1
Top side	20	QPSK 1_50	26140/1860	1:1	0.223	0.130	0.18	21.61	22.50	1.227	0.274	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												



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Front side	20	QPSK 50_50	26365/1882.5	1:1	0.437	0.262	-0.14	21.72	22.50	1.197	0.523	22.1
Back side	20	QPSK 50_50	26365/1882.5	1:1	0.802	0.419	-0.12	21.72	22.50	1.197	0.960	21.9
Back side Repeated	20	QPSK 50_50	26365/1882.5	1:1	0.799	0.411	0.19	21.72	22.50	1.197	0.956	21.9
Right side	20	QPSK 50_50	26365/1882.5	1:1	0.498	0.259	0.05	21.72	22.50	1.197	0.596	22.1
Top side	20	QPSK 50_50	26365/1882.5	1:1	0.230	0.131	-0.07	21.72	22.50	1.197	0.275	22.1
Back side	20	QPSK 50_25	26140/1860	1:1	0.689	0.365	0.11	21.62	22.50	1.225	0.844	22.1
Back side	20	QPSK 50_25	26590/1905	1:1	0.654	0.342	-0.14	21.70	22.50	1.202	0.786	22.1
Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												
Back side	20	QPSK 100_0	26365/1882.5	1:1	0.766	0.397	0.10	21.67	22.50	1.211	0.928	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 1_50	26140/1860	1:1	0.394	0.239	0.19	21.61	19.50	0.615	0.242	22.1
Back side	20	QPSK 1_50	26140/1860	1:1	0.644	0.350	0.19	21.61	19.50	0.615	0.396	22.1
Right side	20	QPSK 1_50	26140/1860	1:1	0.428	0.230	0.08	21.61	19.50	0.615	0.263	22.1
Top side	20	QPSK 1_50	26140/1860	1:1	0.223	0.130	0.18	21.61	19.50	0.615	0.137	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 50_50	26365/1882.5	1:1	0.437	0.262	-0.14	21.72	19.50	0.600	0.262	22.1
Back side	20	QPSK 50_50	26365/1882.5	1:1	0.802	0.419	-0.12	21.72	19.50	0.600	0.481	21.9
Back side Repeated	20	QPSK 50_50	26365/1882.5	1:1	0.799	0.411	0.19	21.72	19.50	0.600	0.479	21.9
Right side	20	QPSK 50_50	26365/1882.5	1:1	0.498	0.259	0.05	21.72	19.50	0.600	0.299	22.1
Top side	20	QPSK 50_50	26365/1882.5	1:1	0.230	0.131	-0.07	21.72	19.50	0.600	0.138	22.1
Back side	20	QPSK 50_25	26140/1860	1:1	0.689	0.365	0.11	21.62	19.50	0.614	0.423	22.1
Back side	20	QPSK 50_25	26590/1905	1:1	0.654	0.342	-0.14	21.70	19.50	0.603	0.394	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 100%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Back side	20	QPSK 100_0	26365/1882.5	1:1	0.766	0.397	0.10	21.67	19.50	0.607	0.465	22.1
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) Set1												
Left cheek	20	QPSK 1_99	26365/1882.5	1:1	0.044	0.027	0.17	18.03	19.50	1.403	0.062	22.1
Left tilted	20	QPSK 1_99	26365/1882.5	1:1	0.023	0.014	0.15	18.03	19.50	1.403	0.032	22.1
Right cheek	20	QPSK 1_99	26365/1882.5	1:1	0.068	0.035	-0.09	18.03	19.50	1.403	0.095	22.1
Right tilted	20	QPSK 1_99	26365/1882.5	1:1	0.036	0.017	-0.09	18.03	19.50	1.403	0.051	22.1
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_25	26140/1860	1:1	0.033	0.023	-0.06	17.99	19.50	1.416	0.047	22.1
Left tilted	20	QPSK 50_25	26140/1860	1:1	0.020	0.012	-0.01	17.99	19.50	1.416	0.028	22.1
Right cheek	20	QPSK 50_25	26140/1860	1:1	0.059	0.032	0.14	17.99	19.50	1.416	0.084	22.1
Right tilted	20	QPSK 50_25	26140/1860	1:1	0.032	0.014	0.09	17.99	19.50	1.416	0.045	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set3												
Front side	20	QPSK 1_99	26365/1882.5	1:1	0.175	0.105	0.13	18.03	19.50	1.403	0.246	22.1
Back side	20	QPSK 1_99	26365/1882.5	1:1	0.320	0.192	-0.04	18.03	19.50	1.403	0.449	22.1
Left side	20	QPSK 1_99	26365/1882.5	1:1	0.142	0.078	0.15	18.03	19.50	1.403	0.199	22.1
Right side	20	QPSK 1_99	26365/1882.5	1:1	0.151	0.083	0.03	18.03	19.50	1.403	0.212	22.1
Bottom side	20	QPSK 1_99	26365/1882.5	1:1	0.282	0.160	-0.01	18.03	19.50	1.403	0.396	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set3												



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Front side	20	QPSK 50_25	26140/1860	1:1	0.164	0.097	0.13	17.99	19.50	1.416	0.232	22.1
Back side	20	QPSK 50_25	26140/1860	1:1	0.336	0.199	0.11	17.99	19.50	1.416	0.476	22.1
Left side	20	QPSK 50_25	26140/1860	1:1	0.128	0.065	0.16	17.99	19.50	1.416	0.181	22.1
Right side	20	QPSK 50_25	26140/1860	1:1	0.133	0.074	-0.18	17.99	19.50	1.416	0.188	22.1
Bottom side	20	QPSK 50_25	26140/1860	1:1	0.324	0.184	0.06	17.99	19.50	1.416	0.459	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 10mm	26365/1882.5	0.802	0.799	1.004	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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8.3.11 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) Set1												
Left cheek	15	QPSK 1 38	26865/831.5	1:1	0.731	0.454	-0.11	23.77	24.00	1.054	0.770	22.1
Left tilted	15	QPSK 1 38	26865/831.5	1:1	0.702	0.400	0.02	23.77	24.00	1.054	0.740	22.1
Right cheek	15	QPSK 1 38	26865/831.5	1:1	1.050	0.577	0.12	23.77	24.00	1.054	1.107	22.1
Right tilted	15	QPSK 1 38	26865/831.5	1:1	1.100	0.560	-0.01	23.77	24.00	1.054	1.159	22.1
Right tilted Repeated	15	QPSK 1 38	26865/831.5	1:1	1.020	0.557	0.02	23.77	24.00	1.054	1.075	22.1
Head Test Data (50%RB) Set1												
Left cheek	15	QPSK 36 18	26865/831.5	1:1	0.607	0.381	-0.04	22.90	23.00	1.023	0.621	22.1
Left tilted	15	QPSK 36 18	26865/831.5	1:1	0.588	0.338	-0.18	22.90	23.00	1.023	0.602	22.1
Right cheek	15	QPSK 36 18	26865/831.5	1:1	0.829	0.466	0.12	22.90	23.00	1.023	0.848	22.1
Right tilted	15	QPSK 36 18	26865/831.5	1:1	0.836	0.445	0.11	22.90	23.00	1.023	0.855	22.1
Head Test Data (100%RB) Set1												
Right cheek	15	QPSK 75 0	26865/831.5	1:1	0.833	0.472	-0.03	22.95	23.00	1.012	0.843	22.1
Right tilted	15	QPSK 75 0	26865/831.5	1:1	0.845	0.479	-0.06	22.95	23.00	1.012	0.855	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	15	QPSK 1 38	26865/831.5	1:1	0.548	0.323	-0.03	23.77	24.00	1.054	0.578	22.1
Back side	15	QPSK 1 38	26865/831.5	1:1	0.582	0.348	0.17	23.77	24.00	1.054	0.613	22.1
Left side	15	QPSK 1 38	26865/831.5	1:1	0.310	0.201	0.16	23.77	24.00	1.054	0.327	22.1
Right side	15	QPSK 1 38	26865/831.5	1:1	0.146	0.095	-0.05	23.77	24.00	1.054	0.154	22.1
Top side	15	QPSK 1 38	26865/831.5	1:1	0.610	0.325	-0.04	23.77	24.00	1.054	0.643	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	15	QPSK 36 18	26865/831.5	1:1	0.413	0.244	-0.03	22.90	23.00	1.023	0.422	22.1
Back side	15	QPSK 36 18	26865/831.5	1:1	0.458	0.277	0.14	22.90	23.00	1.023	0.469	22.1
Left side	15	QPSK 36 18	26865/831.5	1:1	0.250	0.163	-0.10	22.90	23.00	1.023	0.256	22.1
Right side	15	QPSK 36 18	26865/831.5	1:1	0.120	0.078	-0.11	22.90	23.00	1.023	0.123	22.1
Top side	15	QPSK 36 18	26865/831.5	1:1	0.489	0.247	-0.07	22.90	23.00	1.023	0.500	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right tilted	26865/831.5	1.100	1.020	1.078	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.



8.3.12 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) Set1												
Left cheek	10	QPSK 1_25	27710/2310	1:1	0.197	0.124	-0.17	19.94	21.00	1.276	0.251	22.1
Left tilted	10	QPSK 1_25	27710/2310	1:1	0.143	0.083	0.19	19.94	21.00	1.276	0.182	22.1
Right cheek	10	QPSK 1_25	27710/2310	1:1	0.480	0.265	0.10	19.94	21.00	1.276	0.612	22.1
Right tilted	10	QPSK 1_25	27710/2310	1:1	0.186	0.103	0.01	19.94	21.00	1.276	0.237	22.1
Head Test Data (50%RB) Set1												
Left cheek	10	QPSK 25_13	27710/2310	1:1	0.172	0.105	0.00	19.87	21.00	1.297	0.223	22.1
Left tilted	10	QPSK 25_13	27710/2310	1:1	0.131	0.075	-0.19	19.87	21.00	1.297	0.170	22.1
Right cheek	10	QPSK 25_13	27710/2310	1:1	0.475	0.233	0.02	19.87	21.00	1.297	0.616	22.1
Right tilted	10	QPSK 25_13	27710/2310	1:1	0.232	0.127	-0.10	19.87	21.00	1.297	0.301	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	10	QPSK 1_25	27710/2310	1:1	0.198	0.107	-0.09	20.37	22.00	1.455	0.288	22.1
Back side	10	QPSK 1_25	27710/2310	1:1	0.272	0.138	0.09	20.37	22.00	1.455	0.396	22.1
Left side	10	QPSK 1_25	27710/2310	1:1	0.231	0.114	-0.05	20.37	22.00	1.455	0.336	22.1
Top side	10	QPSK 1_25	27710/2310	1:1	0.044	0.024	-0.03	20.37	22.00	1.455	0.064	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	10	QPSK 25_25	27710/2310	1:1	0.123	0.074	0.16	20.46	22.00	1.426	0.175	22.1
Back side	10	QPSK 25_25	27710/2310	1:1	0.270	0.148	0.15	20.46	22.00	1.426	0.385	22.1
Left side	10	QPSK 25_25	27710/2310	1:1	0.213	0.106	0.11	20.46	22.00	1.426	0.304	22.1
Top side	10	QPSK 25_25	27710/2310	1:1	0.041	0.022	0.00	20.46	22.00	1.426	0.058	22.1

8.3.13 SAR Result of LTE Band 41

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) Set1												
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.268	0.149	-0.04	19.89	21.00	1.291	0.346	22.1
Left tilted	20	QPSK 1_0	41490/2680	1:1.58	0.116	0.061	0.17	19.89	21.00	1.291	0.150	22.1
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.646	0.307	0.00	19.89	21.00	1.291	0.834	22.1
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.159	0.085	-0.19	19.89	21.00	1.291	0.205	22.1
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.649	0.306	-0.09	19.70	21.00	1.349	0.876	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.591	0.276	-0.19	19.88	21.00	1.294	0.765	22.1
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.570	0.261	0.03	19.44	21.00	1.432	0.816	22.1
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.553	0.250	-0.01	19.84	21.00	1.306	0.722	22.1
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_0	41490/2680	1:1.58	0.341	0.176	-0.04	19.98	21.00	1.265	0.431	22.1
Left tilted	20	QPSK 50_0	41490/2680	1:1.58	0.122	0.070	-0.04	19.98	21.00	1.265	0.154	22.1
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.716	0.319	0.05	19.98	21.00	1.265	0.906	22.1
Right cheek HPUE	20	QPSK 50_0	41490/2680	1:1.58	0.510	0.223	0.03	19.85	21.00	1.303	0.665	22.1
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.191	0.100	0.07	19.98	21.00	1.265	0.242	22.1
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.631	0.302	0.17	19.66	21.00	1.361	0.859	22.1
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.635	0.301	-0.18	19.97	21.00	1.268	0.805	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.605	0.285	0.17	19.48	21.00	1.419	0.858	22.1
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.564	0.261	-0.11	19.92	21.00	1.282	0.723	22.1
Head Test Data (100%RB) Set1												
Right cheek	20	QPSK 100_0	40185/2549.5	1:1.58	0.654	0.281	0.19	19.65	21.00	1.365	0.893	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.240	0.123	-0.12	19.89	21.00	1.291	0.310	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.452	0.213	-0.06	19.89	21.00	1.291	0.584	22.1
Back side HPUE	20	QPSK 1_0	41490/2680	1:1.58	0.311	0.145	0.02	19.88	21.00	1.294	0.402	22.1
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.367	0.187	0.17	19.89	21.00	1.291	0.474	22.1
Top side	20	QPSK 1_0	41490/2680	1:1.58	0.094	0.047	0.00	19.89	21.00	1.291	0.121	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50_0	41490/2680	1:1.58	0.210	0.106	-0.18	19.98	21.00	1.265	0.266	22.1
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.408	0.198	0.09	19.98	21.00	1.265	0.516	22.1
Left side	20	QPSK 50_0	41490/2680	1:1.58	0.347	0.160	0.16	19.98	21.00	1.265	0.439	22.1
Top side	20	QPSK 50_0	41490/2680	1:1.58	0.068	0.039	0.07	19.98	21.00	1.265	0.086	22.1

8.3.14 SAR Result of LTE Band 42

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) Set1												
Left cheek	20	QPSK 1_50	42190/3460	1:1.58	0.462	0.211	-0.03	21.30	22.00	1.175	0.543	21.9
Left tilted	20	QPSK 1_50	42190/3460	1:1.58	0.255	0.116	-0.10	21.30	22.00	1.175	0.300	21.9
Right cheek	20	QPSK 1_50	42190/3460	1:1.58	0.137	0.066	-0.10	21.30	22.00	1.175	0.161	21.9
Right tilted	20	QPSK 1_50	42190/3460	1:1.58	0.135	0.061	0.15	21.30	22.00	1.175	0.159	21.9
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_0	42190/3460	1:1.58	0.459	0.205	0.02	21.42	21.00	0.908	0.417	21.9
Left tilted	20	QPSK 50_0	42190/3460	1:1.58	0.258	0.117	0.05	21.42	21.00	0.908	0.234	21.9
Right cheek	20	QPSK 50_0	42190/3460	1:1.58	0.143	0.070	0.02	21.42	21.00	0.908	0.130	21.9
Right tilted	20	QPSK 50_0	42190/3460	1:1.58	0.139	0.063	0.10	21.42	21.00	0.908	0.126	21.9
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_50	42190/3460	1:1.58	0.071	0.033	-0.08	20.30	21.00	1.175	0.083	21.9
Back side	20	QPSK 1_50	42190/3460	1:1.58	0.165	0.070	0.16	20.30	21.00	1.175	0.194	21.9
Right side	20	QPSK 1_50	42190/3460	1:1.58	0.264	0.108	-0.10	20.30	21.00	1.175	0.310	21.9
Top side	20	QPSK 1_50	42190/3460	1:1.58	0.102	0.046	0.09	20.30	21.00	1.175	0.120	21.9
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50_0	42190/3460	1:1.58	0.074	0.036	-0.04	20.42	21.00	1.143	0.085	21.9
Back side	20	QPSK 50_0	42190/3460	1:1.58	0.205	0.086	-0.04	20.42	21.00	1.143	0.234	21.9
Right side	20	QPSK 50_0	42190/3460	1:1.58	0.328	0.128	-0.02	20.42	21.00	1.143	0.375	21.9
Top side	20	QPSK 50_0	42190/3460	1:1.58	0.106	0.049	-0.10	20.42	21.00	1.143	0.121	21.9

8.3.15 SAR Result of LTE Band 66

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) Set1												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.761	0.434	0.03	16.97	18.00	1.268	0.965	21.9
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.303	0.179	-0.16	16.97	18.00	1.268	0.384	21.9
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.319	0.213	-0.12	16.97	18.00	1.268	0.404	21.9
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.258	0.162	0.17	16.97	18.00	1.268	0.327	21.9
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.747	0.422	0.00	16.90	18.00	1.288	0.962	21.9
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.783	0.455	0.03	16.89	18.00	1.291	1.011	21.9
Left cheek	20	QPSK PCC 1_0	132572/1770	1:1	0.766	0.432	0.01	17.17	18.00	1.211	0.927	21.9
		QPSK SCC 1_99	132374/1750.2									
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_50	132072/1720	1:1	0.761	0.434	0.18	16.90	18.00	1.288	0.980	21.9
Left tilted	20	QPSK 50_50	132072/1720	1:1	0.291	0.170	-0.04	16.90	18.00	1.288	0.375	21.9
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.309	0.209	0.08	16.90	18.00	1.288	0.398	21.9
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.251	0.158	-0.05	16.90	18.00	1.288	0.323	21.9
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.769	0.439	0.12	16.86	18.00	1.300	1.000	21.9
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.732	0.455	0.03	16.81	18.00	1.315	0.963	21.9
Head Test Data (100%RB) Set1												
Left cheek	20	QPSK 100_0	132572/1770	1:1	0.761	0.424	0.03	16.83	18.00	1.309	0.996	21.9
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.761	0.434	0.03	16.97	15.00	0.635	0.483	21.9
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.303	0.179	-0.16	16.97	15.00	0.635	0.192	21.9
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.319	0.213	-0.12	16.97	15.00	0.635	0.203	21.9
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.258	0.162	0.17	16.97	15.00	0.635	0.164	21.9
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.747	0.422	0.00	16.90	15.00	0.646	0.483	21.9
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.783	0.455	0.03	16.89	15.00	0.647	0.507	21.9
Left cheek	20	QPSK PCC 1_0	132572/1770	1:1	0.766	0.432	0.01	17.17	15.00	0.607	0.465	21.9
		QPSK SCC 1_99	132374/1750.2									
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50_50	132072/1720	1:1	0.761	0.434	0.18	16.90	15.00	0.646	0.492	21.9
Left tilted	20	QPSK 50_50	132072/1720	1:1	0.291	0.170	-0.04	16.90	15.00	0.646	0.188	21.9
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.309	0.209	0.08	16.90	15.00	0.646	0.200	21.9
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.251	0.158	-0.05	16.90	15.00	0.646	0.162	21.9
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.769	0.439	0.12	16.86	15.00	0.652	0.501	21.9
Left cheek	20	QPSK 50_25	132572/1770	1:1	0.732	0.455	0.03	16.81	15.00	0.659	0.482	21.9
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 100_0	132572/1770	1:1	0.761	0.424	0.03	16.83	15.00	0.656	0.499	21.9
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												



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Front side	20	QPSK 1_99	132072/1720	1:1	0.196	0.125	-0.13	21.36	22.50	1.300	0.255	21.9
Back side	20	QPSK 1_99	132072/1720	1:1	0.296	0.170	0.10	21.36	22.50	1.300	0.385	21.9
Right side	20	QPSK 1_99	132072/1720	1:1	0.186	0.110	-0.10	21.36	22.50	1.300	0.242	21.9
Top side	20	QPSK 1_99	132072/1720	1:1	0.102	0.060	0.10	21.36	22.50	1.300	0.133	21.9
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50_25	132072/1720	1:1	0.193	0.119	0.06	21.35	22.50	1.303	0.251	21.9
Back side	20	QPSK 50_25	132072/1720	1:1	0.301	0.173	-0.02	21.35	22.50	1.303	0.392	21.9
Right side	20	QPSK 50_25	132072/1720	1:1	0.187	0.111	0.13	21.35	22.50	1.303	0.244	21.9
Top side	20	QPSK 50_25	132072/1720	1:1	0.102	0.060	-0.06	21.35	22.50	1.303	0.133	21.9
Back side	20	QPSK PCC 1_99	132072/1720	1:1	0.262	0.161	0.02	21.51	22.50	1.256	0.329	21.9
		QPSK SCC 1_0	132270/1739.8									
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 1_99	132072/1720	1:1	0.196	0.125	-0.13	21.36	19.50	0.652	0.128	21.9
Back side	20	QPSK 1_99	132072/1720	1:1	0.296	0.170	0.10	21.36	19.50	0.652	0.193	21.9
Right side	20	QPSK 1_99	132072/1720	1:1	0.186	0.110	-0.10	21.36	19.50	0.652	0.121	21.9
Top side	20	QPSK 1_99	132072/1720	1:1	0.102	0.060	0.10	21.36	19.50	0.652	0.067	21.9
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	20	QPSK 50_25	132072/1720	1:1	0.193	0.119	0.06	21.35	19.50	0.653	0.126	21.9
Back side	20	QPSK 50_25	132072/1720	1:1	0.301	0.173	-0.02	21.35	19.50	0.653	0.197	21.9
Right side	20	QPSK 50_25	132072/1720	1:1	0.187	0.111	0.13	21.35	19.50	0.653	0.122	21.9
Top side	20	QPSK 50_25	132072/1720	1:1	0.102	0.060	-0.06	21.35	19.50	0.653	0.067	21.9
Back side	20	QPSK PCC 1_99	132072/1720	1:1	0.262	0.161	0.02	21.51	19.50	0.630	0.165	21.9
		QPSK SCC 1_0	132270/1739.8									
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.(℃)
Head Test Data (1RB) Set1												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.051	0.032	0.04	16.80	17.00	1.047	0.053	21.9
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.027	0.016	-0.01	16.80	17.00	1.047	0.028	21.9
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.080	0.041	0.15	16.80	17.00	1.047	0.084	21.9
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.042	0.019	0.07	16.80	17.00	1.047	0.044	21.9
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.039	0.027	0.17	16.67	17.00	1.079	0.042	21.9
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.023	0.014	0.18	16.67	17.00	1.079	0.025	21.9
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.069	0.037	0.16	16.67	17.00	1.079	0.074	21.9
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.037	0.016	-0.14	16.67	17.00	1.079	0.040	21.9
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_99	132322/1745	1:1	0.101	0.056	-0.07	16.80	17.00	1.047	0.106	21.9
Back side	20	QPSK 1_99	132322/1745	1:1	0.252	0.136	-0.17	16.80	17.00	1.047	0.264	21.9
Left side	20	QPSK 1_99	132322/1745	1:1	0.026	0.006	-0.07	16.80	17.00	1.047	0.027	21.9
Right side	20	QPSK 1_99	132322/1745	1:1	0.031	0.009	0.11	16.80	17.00	1.047	0.032	21.9
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.332	0.171	0.09	16.80	17.00	1.047	0.348	21.9
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												



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Front side	20	QPSK 50_50	132572/1770	1:1	0.062	0.035	-0.03	16.67	17.00	1.079	0.067	21.9
Back side	20	QPSK 50_50	132572/1770	1:1	0.155	0.088	0.11	16.67	17.00	1.079	0.167	21.9
Left side	20	QPSK 50_50	132572/1770	1:1	0.027	0.010	0.01	16.67	17.00	1.079	0.029	21.9
Right side	20	QPSK 50_50	132572/1770	1:1	0.028	0.007	-0.18	16.67	17.00	1.079	0.030	21.9
Bottom side	20	QPSK 50_50	132572/1770	1:1	0.177	0.094	0.15	16.67	17.00	1.079	0.191	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) Set1												
Left cheek	20	QPSK 1_0	133322/683	1:1	0.462	0.283	0.19	22.36	24.00	1.459	0.674	22.6
Left tilted	20	QPSK 1_0	133322/683	1:1	0.447	0.258	-0.12	22.36	24.00	1.459	0.652	22.6
Right cheek	20	QPSK 1_0	133322/683	1:1	0.626	0.365	-0.11	22.36	24.00	1.459	0.913	22.6
Right tilted	20	QPSK 1_0	133322/683	1:1	0.615	0.319	-0.03	22.36	24.00	1.459	0.897	22.6
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_50	133322/683	1:1	0.349	0.214	-0.02	21.56	23.00	1.393	0.486	22.6
Left tilted	20	QPSK 50_50	133322/683	1:1	0.338	0.194	0.08	21.56	23.00	1.393	0.471	22.6
Right cheek	20	QPSK 50_50	133322/683	1:1	0.479	0.271	0.02	21.56	23.00	1.393	0.667	22.6
Right tilted	20	QPSK 50_50	133322/683	1:1	0.464	0.241	-0.10	21.56	23.00	1.393	0.646	22.6
Head Test Data (100%RB) Set1												
Right cheek	20	QPSK 100_0	133322/683	1:1	0.472	0.266	0.01	21.46	23.00	1.426	0.673	22.6
Right tilted	20	QPSK 100_0	133322/683	1:1	0.455	0.234	0.04	21.46	23.00	1.426	0.649	22.6
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1_0	133322/683	1:1	0.462	0.283	0.19	22.36	21.00	0.731	0.338	22.6
Left tilted	20	QPSK 1_0	133322/683	1:1	0.447	0.258	-0.12	22.36	21.00	0.731	0.327	22.6
Right cheek	20	QPSK 1_0	133322/683	1:1	0.626	0.365	-0.11	22.36	21.00	0.731	0.458	22.6
Right tilted	20	QPSK 1_0	133322/683	1:1	0.615	0.319	-0.03	22.36	21.00	0.731	0.450	22.6
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50_50	133322/683	1:1	0.349	0.214	-0.02	21.56	21.00	0.879	0.307	22.6
Left tilted	20	QPSK 50_50	133322/683	1:1	0.338	0.194	0.08	21.56	21.00	0.879	0.297	22.6
Right cheek	20	QPSK 50_50	133322/683	1:1	0.479	0.271	0.02	21.56	21.00	0.879	0.421	22.6
Right tilted	20	QPSK 50_50	133322/683	1:1	0.464	0.241	-0.10	21.56	21.00	0.879	0.408	22.6
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	20	QPSK 100_0	133322/683	1:1	0.472	0.266	0.01	21.46	21.00	0.899	0.424	22.6
Right tilted	20	QPSK 100_0	133322/683	1:1	0.455	0.234	0.04	21.46	21.00	0.899	0.409	22.6
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_0	133322/683	1:1	0.129	0.077	0.00	22.36	24.00	1.459	0.188	22.6
Back side	20	QPSK 1_0	133322/683	1:1	0.215	0.129	-0.02	22.36	24.00	1.459	0.314	22.6
Left side	20	QPSK 1_0	133322/683	1:1	0.214	0.154	-0.06	22.36	24.00	1.459	0.312	22.6
Right side	20	QPSK 1_0	133322/683	1:1	0.089	0.059	0.11	22.36	24.00	1.459	0.130	22.6
Top side	20	QPSK 1_0	133322/683	1:1	0.209	0.111	-0.09	22.36	24.00	1.459	0.305	22.6
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50_50	133322/683	1:1	0.092	0.055	0.14	21.56	23.00	1.393	0.128	22.6
Back side	20	QPSK 50_50	133322/683	1:1	0.153	0.092	0.03	21.56	23.00	1.393	0.213	22.6
Left side	20	QPSK 50_50	133322/683	1:1	0.152	0.109	-0.01	21.56	23.00	1.393	0.212	22.6
Right side	20	QPSK 50_50	133322/683	1:1	0.063	0.042	-0.16	21.56	23.00	1.393	0.088	22.6
Top side	20	QPSK 50_50	133322/683	1:1	0.148	0.079	0.11	21.56	23.00	1.393	0.206	22.6



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8.3.17 SAR Result of NR Band n2

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) Set1												
Left cheek	20	QPSK 1_104	380000/1900	100%	0.012	0.007	0.03	16.73	17.50	1.194	0.014	22.1
Left tilted	20	QPSK 1_104	380000/1900	100%	0.009	0.004	0.01	16.73	17.50	1.194	0.011	22.1
Right cheek	20	QPSK 1_104	380000/1900	100%	0.019	0.012	-0.08	16.73	17.50	1.194	0.023	22.1
Right tilted	20	QPSK 1_104	380000/1900	100%	0.016	0.010	-0.15	16.73	17.50	1.194	0.019	22.1
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.011	0.006	0.01	16.48	17.50	1.265	0.014	22.1
Left tilted	20	QPSK 50_28	380000/1900	100%	0.008	0.004	-0.08	16.48	17.50	1.265	0.010	22.1
Right cheek	20	QPSK 50_28	380000/1900	100%	0.017	0.011	-0.08	16.48	17.50	1.265	0.022	22.1
Right tilted	20	QPSK 50_28	380000/1900	100%	0.015	0.009	0.04	16.48	17.50	1.265	0.019	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	20	QPSK 1_104	380000/1900	100%	0.128	0.076	0.05	18.72	19.50	1.197	0.153	22.1
Back side	20	QPSK 1_104	380000/1900	100%	0.229	0.129	0.08	18.72	19.50	1.197	0.274	22.1
Left side	20	QPSK 1_104	380000/1900	100%	0.074	0.042	0.12	18.72	19.50	1.197	0.089	22.1
Right side	20	QPSK 1_104	380000/1900	100%	0.078	0.044	-0.10	18.72	19.50	1.197	0.093	22.1
Bottom side	20	QPSK 1_104	380000/1900	100%	0.014	0.005	0.12	18.72	19.50	1.197	0.017	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	20	QPSK 50_28	380000/1900	100%	0.129	0.076	0.19	18.57	19.50	1.239	0.160	22.1
Back side	20	QPSK 50_28	380000/1900	100%	0.232	0.133	-0.05	18.57	19.50	1.239	0.287	22.1
Left side	20	QPSK 50_28	380000/1900	100%	0.083	0.045	-0.10	18.57	19.50	1.239	0.103	22.1
Right side	20	QPSK 50_28	380000/1900	100%	0.090	0.050	-0.11	18.57	19.50	1.239	0.112	22.1
Bottom side	20	QPSK 50_28	380000/1900	100%	0.004	0.004	-0.03	18.57	19.50	1.239	0.005	22.1

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) Set1												
Left cheek	20	QPSK 1_1	167300/836.5	100%	0.704	0.460	-0.03	22.52	23.00	1.117	0.786	22.1
Left tilted	20	QPSK 1_1	167300/836.5	100%	0.614	0.364	0.19	22.52	23.00	1.117	0.686	22.1
Right cheek	20	QPSK 1_1	167300/836.5	100%	1.020	0.598	0.02	22.52	23.00	1.117	1.139	22.1
Right cheek Repeated	20	QPSK 1_1	167300/836.5	100%	0.996	0.589	0.09	22.52	23.00	1.117	1.113	22.1
Right tilted	20	QPSK 1_1	167300/836.5	100%	0.906	0.478	0.14	22.52	23.00	1.117	1.012	22.1
Head Test Data (50%RB) Set1												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.597	0.390	0.17	22.14	23.00	1.219	0.728	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.543	0.318	-0.05	22.14	23.00	1.219	0.662	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.867	0.504	0.04	22.14	23.00	1.219	1.057	22.1
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.783	0.412	-0.06	22.14	23.00	1.219	0.954	22.1
Head Test Data (100%RB) Set1												
Right cheek	25	QPSK 100_0	167300/836.5	100%	0.781	0.411	0.19	21.17	22.00	1.211	0.946	22.1
Right tilted	25	QPSK 100_0	167300/836.5	100%	0.722	0.389	0.04	21.17	22.00	1.211	0.874	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 1_1	167300/836.5	100%	0.704	0.460	-0.03	22.52	22.00	0.887	0.624	22.1
Left tilted	20	QPSK 1_1	167300/836.5	100%	0.614	0.364	0.19	22.52	22.00	0.887	0.545	22.1
Right cheek	20	QPSK 1_1	167300/836.5	100%	1.020	0.598	0.02	22.52	22.00	0.887	0.905	22.1
Right cheek Repeated	20	QPSK 1_1	167300/836.5	100%	0.996	0.589	0.09	22.52	22.00	0.887	0.883	22.1
Right tilted	20	QPSK 1_1	167300/836.5	100%	0.906	0.478	0.14	22.52	22.00	0.887	0.804	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.597	0.390	0.17	22.14	22.00	0.968	0.578	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.543	0.318	-0.05	22.14	22.00	0.968	0.526	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.867	0.504	0.04	22.14	22.00	0.968	0.839	22.1
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.783	0.412	-0.06	22.14	22.00	0.968	0.758	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	25	QPSK 100_0	167300/836.5	100%	0.781	0.411	0.19	21.17	21.00	0.962	0.751	22.1
Right tilted	25	QPSK 100_0	167300/836.5	100%	0.722	0.389	0.04	21.17	21.00	0.962	0.695	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	25	QPSK 1_1	167300/836.5	100%	0.469	0.293	-0.03	24.57	25.00	1.104	0.518	22.1
Back side	25	QPSK 1_1	167300/836.5	100%	0.660	0.403	-0.13	24.57	25.00	1.104	0.729	22.1
Left side	25	QPSK 1_1	167300/836.5	100%	0.378	0.241	0.15	24.57	25.00	1.104	0.417	22.1
Right side	25	QPSK 1_1	167300/836.5	100%	0.172	0.112	0.19	24.57	25.00	1.104	0.190	22.1
Top side	25	QPSK 1_1	167300/836.5	100%	0.628	0.333	-0.10	24.57	25.00	1.104	0.693	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	25	QPSK 64_35	167300/836.5	100%	0.443	0.275	-0.04	24.13	25.00	1.222	0.541	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.595	0.370	0.11	24.13	25.00	1.222	0.727	22.1
Left side	25	QPSK 64_35	167300/836.5	100%	0.312	0.200	-0.14	24.13	25.00	1.222	0.381	22.1



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Right side	25	QPSK 64_35	167300/836.5	100%	0.137	0.089	0.11	24.13	25.00	1.222	0.167	22.1
Top side	25	QPSK 64_35	167300/836.5	100%	0.555	0.291	-0.01	24.13	25.00	1.222	0.678	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	1.020	0.996	1.024	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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8.3.19 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) Set1												
Left cheek	40	QPSK 1 1	507000/2535	100%	0.442	0.247	0.16	16.39	17.00	1.151	0.509	22.1
Left tilted	40	QPSK 1 1	507000/2535	100%	0.171	0.093	-0.02	16.39	17.00	1.151	0.197	22.1
Right cheek	40	QPSK 1 1	507000/2535	100%	1.160	0.558	-0.09	16.39	17.00	1.151	1.335	22.1
Right cheek Repeated	40	QPSK 1 1	507000/2535	100%	1.050	0.546	-0.13	16.39	17.00	1.151	1.209	22.1
Right tilted	40	QPSK 1 1	507000/2535	100%	0.351	0.184	0.15	16.39	17.00	1.151	0.404	22.1
Head Test Data (50%RB) Set1												
Left cheek	40	QPSK 108 54	507000/2535	100%	0.445	0.250	0.02	16.33	17.00	1.167	0.519	22.1
Left tilted	40	QPSK 108 54	507000/2535	100%	0.177	0.095	-0.08	16.33	17.00	1.167	0.207	22.1
Right cheek	40	QPSK 108 54	507000/2535	100%	1.150	0.528	-0.04	16.33	17.00	1.167	1.342	22.1
Right tilted	40	QPSK 108 54	507000/2535	100%	0.348	0.180	-0.05	16.33	17.00	1.167	0.406	22.1
Head Test Data (100%RB) Set1												
Right cheek	40	QPSK 216 0	507000/2535	100%	0.926	0.446	-0.01	15.46	16.00	1.132	1.048	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	40	QPSK 1 1	507000/2535	100%	0.477	0.243	0.10	18.35	19.00	1.161	0.554	22.1
Back side	40	QPSK 1 1	507000/2535	100%	0.697	0.339	0.08	18.35	19.00	1.161	0.809	22.1
Left side	40	QPSK 1 1	507000/2535	100%	0.608	0.315	-0.17	18.35	19.00	1.161	0.706	22.1
Top side	40	QPSK 1 1	507000/2535	100%	0.121	0.069	0.04	18.35	19.00	1.161	0.140	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	40	QPSK 108 54	507000/2535	100%	0.416	0.210	0.09	18.27	19.00	1.183	0.492	22.1
Back side	40	QPSK 108 54	507000/2535	100%	0.735	0.354	-0.08	18.27	19.00	1.183	0.870	22.1
Left side	40	QPSK 108 54	507000/2535	100%	0.582	0.298	-0.02	18.27	19.00	1.183	0.689	22.1
Top side	40	QPSK 108 54	507000/2535	100%	0.148	0.083	0.10	18.27	19.00	1.183	0.175	22.1
Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												
Back side	40	QPSK 216 0	507000/2535	100%	0.526	0.232	0.05	17.37	18.00	1.156	0.608	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	507000/2535	1.160	1.050	1.105	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.



8.3.20 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) Set1												
Left cheek	40	QPSK 1_214	376500/1882.5	100%	1.030	0.570	-0.14	19.34	19.50	1.038	1.069	22.1
Left tilted	40	QPSK 1_214	376500/1882.5	100%	0.413	0.236	-0.13	19.34	19.50	1.038	0.429	22.1
Right cheek	40	QPSK 1_214	376500/1882.5	100%	0.940	0.629	0.02	19.34	19.50	1.038	0.976	22.1
Right tilted	40	QPSK 1_214	376500/1882.5	100%	0.800	0.492	0.11	19.34	19.50	1.038	0.830	22.1
Head Test Data (50%RB) Set1												
Left cheek	40	QPSK 108_54	376500/1882.5	100%	1.030	0.585	-0.03	19.29	19.50	1.050	1.082	22.1
Left cheek Repeated	40	QPSK 108_54	376500/1882.5	100%	0.998	0.576	0.02	19.29	19.50	1.050	1.048	22.1
Left tilted	40	QPSK 108_54	376500/1882.5	100%	0.416	0.236	0.10	19.29	19.50	1.050	0.437	22.1
Right cheek	40	QPSK 108_54	376500/1882.5	100%	1.010	0.678	-0.04	19.29	19.50	1.050	1.061	22.1
Right tilted	40	QPSK 108_54	376500/1882.5	100%	0.847	0.521	-0.18	19.29	19.50	1.050	0.889	22.1
Head Test Data (100%RB) Set1												
Left cheek	40	QPSK 216_0	376500/1882.5	100%	0.810	0.497	-0.06	18.43	18.50	1.016	0.823	22.1
Right cheek	40	QPSK 216_0	376500/1882.5	100%	0.770	0.467	-0.06	18.43	18.50	1.016	0.782	22.1
Right tilted	40	QPSK 216_0	376500/1882.5	100%	0.610	0.403	0.10	18.43	18.50	1.016	0.620	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 1_214	376500/1882.5	100%	1.030	0.570	-0.14	19.34	16.50	0.520	0.536	22.1
Left tilted	40	QPSK 1_214	376500/1882.5	100%	0.413	0.236	-0.13	19.34	16.50	0.520	0.215	22.1
Right cheek	40	QPSK 1_214	376500/1882.5	100%	0.940	0.629	0.02	19.34	16.50	0.520	0.489	22.1
Right tilted	40	QPSK 1_214	376500/1882.5	100%	0.800	0.492	0.11	19.34	16.50	0.520	0.416	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 108_54	376500/1882.5	100%	1.030	0.585	-0.03	19.29	16.50	0.526	0.542	22.1
Left cheek Repeated	40	QPSK 108_54	376500/1882.5	100%	0.998	0.576	0.02	19.29	16.50	0.526	0.525	22.1
Left tilted	40	QPSK 108_54	376500/1882.5	100%	0.416	0.236	0.10	19.29	16.50	0.526	0.219	22.1
Right cheek	40	QPSK 108_54	376500/1882.5	100%	1.010	0.678	-0.04	19.29	16.50	0.526	0.531	22.1
Right tilted	40	QPSK 108_54	376500/1882.5	100%	0.847	0.521	-0.18	19.29	16.50	0.526	0.446	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 216_0	376500/1882.5	100%	0.810	0.497	-0.06	18.43	15.50	0.509	0.412	22.1
Right cheek	40	QPSK 216_0	376500/1882.5	100%	0.770	0.467	-0.06	18.43	15.50	0.509	0.392	22.1
Right tilted	40	QPSK 216_0	376500/1882.5	100%	0.610	0.403	0.10	18.43	15.50	0.509	0.310	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	40	QPSK 1_108	376500/1882.5	100%	0.333	0.199	0.02	22.30	22.50	1.047	0.349	22.1
Back side	40	QPSK 1_108	376500/1882.5	100%	0.435	0.234	0.07	22.30	22.50	1.047	0.455	22.1
Right side	40	QPSK 1_108	376500/1882.5	100%	0.388	0.206	0.15	22.30	22.50	1.047	0.406	22.1
Top side	40	QPSK 1_108	376500/1882.5	100%	0.278	0.155	0.15	22.30	22.50	1.047	0.291	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	40	QPSK 108_54	376500/1882.5	100%	0.464	0.267	-0.12	22.35	22.50	1.035	0.480	22.1



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Back side	40	QPSK 108_54	376500/1882.5	100%	0.378	0.205	0.13	22.35	22.50	1.035	0.391	22.1
Right side	40	QPSK 108_54	376500/1882.5	100%	0.368	0.205	0.08	22.35	22.50	1.035	0.381	22.1
Top side	40	QPSK 108_54	376500/1882.5	100%	0.252	0.142	0.12	22.35	22.50	1.035	0.261	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	40	QPSK 1_108	376500/1882.5	100%	0.333	0.199	0.02	22.30	19.50	0.525	0.175	22.1
Back side	40	QPSK 1_108	376500/1882.5	100%	0.435	0.234	0.07	22.30	19.50	0.525	0.228	22.1
Right side	40	QPSK 1_108	376500/1882.5	100%	0.388	0.206	0.15	22.30	19.50	0.525	0.204	22.1
Top side	40	QPSK 1_108	376500/1882.5	100%	0.278	0.155	0.15	22.30	19.50	0.525	0.146	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	40	QPSK 108_54	376500/1882.5	100%	0.464	0.267	-0.12	22.35	19.50	0.519	0.241	22.1
Back side	40	QPSK 108_54	376500/1882.5	100%	0.378	0.205	0.13	22.35	19.50	0.519	0.196	22.1
Right side	40	QPSK 108_54	376500/1882.5	100%	0.368	0.205	0.08	22.35	19.50	0.519	0.191	22.1
Top side	40	QPSK 108_54	376500/1882.5	100%	0.252	0.142	0.12	22.35	19.50	0.519	0.131	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	376500/1882.5	1.030	0.998	1.032	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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8.3.21 SAR Result of NR Band n41

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) Set1												
Left cheek	100	QPSK 1_271	518598/2592.99	100%	0.357	0.201	-0.02	17.76	18.50	1.186	0.423	22.1
Left tilted	100	QPSK 1_271	518598/2592.99	100%	0.182	0.095	0.10	17.76	18.50	1.186	0.216	22.1
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.835	0.418	0.16	17.76	18.50	1.186	0.990	22.1
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.282	0.148	0.07	17.76	18.50	1.186	0.334	22.1
Head Test Data (50%RB) Set1												
Left cheek	100	QPSK 135_695	518598/2592.99	100%	0.399	0.224	-0.04	17.76	18.50	1.186	0.473	22.1
Left tilted	100	QPSK 135_695	518598/2592.99	100%	0.191	0.100	-0.15	17.76	18.50	1.186	0.227	22.1
Right cheek	100	QPSK 135_695	518598/2592.99	100%	0.959	0.449	0.05	17.76	18.50	1.186	1.137	22.1
Right cheek Repeated	100	QPSK 135_695	518598/2592.99	100%	0.951	0.442	0.17	17.76	18.50	1.186	1.128	22.1
Right tilted	100	QPSK 135_695	518598/2592.99	100%	0.302	0.159	-0.10	17.76	18.50	1.186	0.358	22.1
Head Test Data (100%RB) Set1												
Right cheek	100	QPSK 270_0	518598/2592.99	100%	0.704	0.351	0.02	16.75	17.50	1.189	0.837	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 1_271	518598/2592.99	100%	0.357	0.201	-0.02	17.76	15.50	0.594	0.212	22.1
Left tilted	100	QPSK 1_271	518598/2592.99	100%	0.182	0.095	0.10	17.76	15.50	0.594	0.108	22.1
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.835	0.418	0.16	17.76	15.50	0.594	0.496	22.1
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.282	0.148	0.07	17.76	15.50	0.594	0.168	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 135_695	518598/2592.99	100%	0.399	0.224	-0.04	17.76	15.50	0.594	0.237	22.1
Left tilted	100	QPSK 135_695	518598/2592.99	100%	0.191	0.100	-0.15	17.76	15.50	0.594	0.113	22.1
Right cheek	100	QPSK 135_695	518598/2592.99	100%	0.959	0.449	0.05	17.76	15.50	0.594	0.570	22.1
Right cheek Repeated	100	QPSK 135_695	518598/2592.99	100%	0.951	0.442	0.17	17.76	15.50	0.594	0.565	22.1
Right tilted	100	QPSK 135_695	518598/2592.99	100%	0.302	0.159	-0.10	17.76	15.50	0.594	0.179	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Right cheek	100	QPSK 270_0	518598/2592.99	100%	0.704	0.351	0.02	16.75	14.50	0.596	0.420	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.519	0.280	-0.03	20.47	21.00	1.130	0.586	22.1
Back side	100	QPSK 1_271	518598/2592.99	100%	0.999	0.484	-0.07	20.47	21.00	1.130	1.129	22.1
Back side Repeated	100	QPSK 1_271	518598/2592.99	100%	0.927	0.483	0.03	20.47	21.00	1.130	1.048	22.1
Left side	100	QPSK 1_271	518598/2592.99	100%	0.876	0.440	-0.09	20.47	21.00	1.130	0.990	22.1
Top side	100	QPSK 1_271	518598/2592.99	100%	0.322	0.131	0.00	20.47	21.00	1.130	0.364	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	100	QPSK 135_695	518598/2592.99	100%	0.475	0.254	0.15	20.36	21.00	1.159	0.551	22.1
Back side	100	QPSK 135_695	518598/2592.99	100%	0.885	0.455	0.01	20.36	21.00	1.159	1.026	22.1
Left side	100	QPSK 135_695	518598/2592.99	100%	0.954	0.486	-0.06	20.36	21.00	1.159	1.106	22.1
Top side	100	QPSK 135_695	518598/2592.99	100%	0.239	0.137	-0.17	20.36	21.00	1.159	0.277	22.1
Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												



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Back side	100	QPSK 270_0	518598/2592.99	100%	0.711	0.344	-0.12	19.43	20.00	1.140	0.811	22.1
Left side	100	QPSK 270_0	518598/2592.99	100%	0.869	0.446	-0.16	19.43	20.00	1.140	0.991	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.519	0.280	-0.03	20.47	18.00	0.566	0.294	22.1
Back side	100	QPSK 1_271	518598/2592.99	100%	0.999	0.484	-0.07	20.47	18.00	0.566	0.565	22.1
Back side Repeated	100	QPSK 1_271	518598/2592.99	100%	0.927	0.483	0.03	20.47	18.00	0.566	0.525	22.1
Left side	100	QPSK 1_271	518598/2592.99	100%	0.876	0.440	-0.09	20.47	18.00	0.566	0.496	22.1
Top side	100	QPSK 1_271	518598/2592.99	100%	0.322	0.131	0.00	20.47	18.00	0.566	0.182	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 135_695	518598/2592.99	100%	0.475	0.254	0.15	20.36	18.00	0.581	0.276	22.1
Back side	100	QPSK 135_695	518598/2592.99	100%	0.885	0.455	0.01	20.36	18.00	0.581	0.514	22.1
Left side	100	QPSK 135_695	518598/2592.99	100%	0.954	0.486	-0.06	20.36	18.00	0.581	0.554	22.1
Top side	100	QPSK 135_695	518598/2592.99	100%	0.239	0.137	-0.17	20.36	18.00	0.581	0.139	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 100%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Back side	100	QPSK 270_0	518598/2592.99	100%	0.711	0.344	-0.12	19.43	17.00	0.571	0.406	22.1
Left side	100	QPSK 270_0	518598/2592.99	100%	0.869	0.446	-0.16	19.43	17.00	0.571	0.496	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	518598/2592.99	0.959	0.951	1.008	N/A	N/A
Back side 10mm	518598/2592.99	0.999	0.927	1.078	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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8.3.22 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) Set1												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.681	0.385	0.00	18.86	19.50	1.159	0.789	22.1
Left tilted	40	QPSK 1_108	349000/1745	100%	0.234	0.140	0.00	18.86	19.50	1.159	0.271	22.1
Right cheek	40	QPSK 1_108	349000/1745	100%	0.278	0.187	0.10	18.86	19.50	1.159	0.322	22.1
Right tilted	40	QPSK 1_108	349000/1745	100%	0.201	0.131	0.09	18.86	19.50	1.159	0.233	22.1
Head Test Data (50%RB) Set1												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.721	0.418	0.02	18.74	19.50	1.191	0.859	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.237	0.142	0.15	18.74	19.50	1.191	0.282	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.287	0.193	0.00	18.74	19.50	1.191	0.342	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.220	0.138	-0.15	18.74	19.50	1.191	0.262	22.1
Head Test Data (100%RB) Set1												
Left cheek	40	QPSK 216_0	349000/1745	100%	0.515	0.297	0.18	17.71	18.50	1.199	0.617	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.681	0.385	0.00	18.86	16.50	0.581	0.396	22.1
Left tilted	40	QPSK 1_108	349000/1745	100%	0.234	0.140	0.00	18.86	16.50	0.581	0.136	22.1
Right cheek	40	QPSK 1_108	349000/1745	100%	0.278	0.187	0.10	18.86	16.50	0.581	0.162	22.1
Right tilted	40	QPSK 1_108	349000/1745	100%	0.201	0.131	0.09	18.86	16.50	0.581	0.117	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.721	0.418	0.02	18.74	16.50	0.597	0.430	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.237	0.142	0.15	18.74	16.50	0.597	0.141	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.287	0.193	0.00	18.74	16.50	0.597	0.171	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.220	0.138	-0.15	18.74	16.50	0.597	0.131	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	40	QPSK 216_0	349000/1745	100%	0.515	0.297	0.18	17.71	15.50	0.601	0.310	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	40	QPSK 1_1	349000/1745	100%	0.360	0.226	0.16	21.67	22.50	1.211	0.436	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.221	0.132	-0.18	21.67	22.50	1.211	0.268	22.1
Right side	40	QPSK 1_1	349000/1745	100%	0.352	0.205	-0.19	21.67	22.50	1.211	0.426	22.1
Top side	40	QPSK 1_1	349000/1745	100%	0.332	0.188	-0.13	21.67	22.50	1.211	0.402	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	40	QPSK 108_54	349000/1745	100%	0.382	0.232	0.12	21.65	22.50	1.216	0.465	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.230	0.137	0.00	21.65	22.50	1.216	0.280	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.376	0.220	0.09	21.65	22.50	1.216	0.457	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.307	0.176	0.15	21.65	22.50	1.216	0.373	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	40	QPSK 1_1	349000/1745	100%	0.360	0.226	0.16	21.67	19.50	0.607	0.219	22.1
Back side	40	QPSK 1_1	349000/1745	100%	0.221	0.132	-0.18	21.67	19.50	0.607	0.134	22.1
Right side	40	QPSK 1_1	349000/1745	100%	0.352	0.205	-0.19	21.67	19.50	0.607	0.214	22.1



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Top side	40	QPSK 1_1	349000/1745	100%	0.332	0.188	-0.13	21.67	19.50	0.607	0.202	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	40	QPSK 108_54	349000/1745	100%	0.382	0.232	0.12	21.65	19.50	0.610	0.233	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.230	0.137	0.00	21.65	19.50	0.610	0.140	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.376	0.220	0.09	21.65	19.50	0.610	0.229	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.307	0.716	0.15	21.65	19.50	0.610	0.187	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) Set1												
Left cheek	40	QPSK 1_214	349000/1745	100%	0.033	0.020	0.08	17.07	17.50	1.104	0.036	22.1
Left tilted	40	QPSK 1_214	349000/1745	100%	0.017	0.010	0.13	17.07	17.50	1.104	0.019	22.1
Right cheek	40	QPSK 1_214	349000/1745	100%	0.050	0.026	-0.10	17.07	17.50	1.104	0.055	22.1
Right tilted	40	QPSK 1_214	349000/1745	100%	0.027	0.012	0.08	17.07	17.50	1.104	0.030	22.1
Head Test Data (50%RB) Set1												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.025	0.017	-0.02	17.04	17.50	1.112	0.028	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.015	0.009	-0.15	17.04	17.50	1.112	0.017	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.044	0.024	0.19	17.04	17.50	1.112	0.049	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.024	0.010	0.03	17.04	17.50	1.112	0.027	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	40	QPSK 1_214	349000/1745	100%	0.072	0.042	0.19	17.07	17.50	1.104	0.079	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.184	0.100	0.16	17.07	17.50	1.104	0.203	22.1
Left side	40	QPSK 1_214	349000/1745	100%	0.048	0.025	-0.15	17.07	17.50	1.104	0.053	22.1
Right side	40	QPSK 1_214	349000/1745	100%	0.052	0.029	0.12	17.07	17.50	1.104	0.057	22.1
Bottom side	40	QPSK 1_214	349000/1745	100%	0.161	0.090	-0.08	17.07	17.50	1.104	0.178	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	40	QPSK 108_54	349000/1745	100%	0.076	0.043	0.10	17.04	17.50	1.112	0.085	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.192	0.108	-0.08	17.04	17.50	1.112	0.214	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.052	0.040	0.11	17.04	17.50	1.112	0.058	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.055	0.031	-0.06	17.04	17.50	1.112	0.061	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.162	0.090	0.04	17.04	17.50	1.112	0.180	22.1



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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) Set1													
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.544	0.352	0.10	23.03	24.00	1.250	0.680	22.1	
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.465	0.291	-0.14	23.03	24.00	1.250	0.581	22.1	
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.798	0.457	0.17	23.03	24.00	1.250	0.998	22.1	
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.711	0.386	0.18	23.03	24.00	1.250	0.889	22.1	
Head Test Data (50%RB) Set1													
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.574	0.371	0.04	22.92	24.00	1.282	0.736	22.1	
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.501	0.314	0.06	22.92	24.00	1.282	0.642	22.1	
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.848	0.518	-0.07	22.92	24.00	1.282	1.087	22.1	
Right cheek Repeated	20	QPSK 50_28	136100/680.5	100%	0.835	0.512	0.06	22.92	24.00	1.282	1.070	22.1	
Right tilted	20	QPSK 50_28	136100/680.5	100%	0.761	0.413	-0.14	22.92	24.00	1.282	0.976	22.1	
Head Test Data (100%RB) Set1													
Right cheek	20	QPSK 100_0	136100/680.5	100%	0.652	0.375	-0.01	21.92	23.00	1.282	0.836	22.1	
Right tilted	20	QPSK 100_0	136100/680.5	100%	0.611	0.348	-0.08	21.92	23.00	1.282	0.783	22.1	
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC													
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.544	0.352	0.10	23.03	21.00	0.627	0.341	22.1	
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.465	0.291	-0.14	23.03	21.00	0.627	0.292	22.1	
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.798	0.457	0.17	23.03	21.00	0.627	0.500	22.1	
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.711	0.386	0.18	23.03	21.00	0.627	0.446	22.1	
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC													
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.574	0.371	0.04	22.92	21.00	0.643	0.369	22.1	
Left tilted	20	QPSK 50_28	136100/680.5	100%	0.501	0.314	0.06	22.92	21.00	0.643	0.322	22.1	
Right cheek	20	QPSK 50_28	136100/680.5	100%	0.848	0.518	-0.07	22.92	21.00	0.643	0.545	22.1	
Right cheek Repeated	20	QPSK 50_28	136100/680.5	100%	0.835	0.512	0.06	22.92	21.00	0.643	0.537	22.1	
Right tilted	20	QPSK 50_28	136100/680.5	100%	0.761	0.413	-0.14	22.92	21.00	0.643	0.489	22.1	
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC													
Right cheek	20	QPSK 100_0	136100/680.5	100%	0.652	0.375	-0.01	21.92	20.00	0.643	0.419	22.1	
Right tilted	20	QPSK 100_0	136100/680.5	100%	0.611	0.348	-0.08	21.92	20.00	0.643	0.393	22.1	
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2													
Front side	20	QPSK 1_1	136100/680.5	100%	0.194	0.122	-0.03	23.03	24.00	1.250	0.243	22.1	
Back side	20	QPSK 1_1	136100/680.5	100%	0.317	0.191	0.11	23.03	24.00	1.250	0.396	22.1	
Left side	20	QPSK 1_1	136100/680.5	100%	0.242	0.162	0.08	23.03	24.00	1.250	0.303	22.1	
Right side	20	QPSK 1_1	136100/680.5	100%	0.112	0.075	0.09	23.03	24.00	1.250	0.140	22.1	
Top side	20	QPSK 1_1	136100/680.5	100%	0.258	0.132	0.02	23.03	24.00	1.250	0.323	22.1	
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2													
Front side	20	QPSK 50_28	136100/680.5	100%	0.206	0.128	-0.17	22.92	24.00	1.282	0.264	22.1	
Back side	20	QPSK 50_28	136100/680.5	100%	0.344	0.207	0.02	22.92	24.00	1.282	0.441	22.1	



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Left side	20	QPSK 50_28	136100/680.5	100%	0.281	0.201	0.02	22.92	24.00	1.282	0.360	22.1
Right side	20	QPSK 50_28	136100/680.5	100%	0.117	0.078	-0.12	22.92	24.00	1.282	0.150	22.1
Top side	20	QPSK 50_28	136100/680.5	100%	0.269	0.142	-0.12	22.92	24.00	1.282	0.345	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	136100/680.5	0.848	0.835	1.016	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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8.3.24 SAR Result of NR Band n77 (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) Set1												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.503	0.224	0.03	17.20	18.00	1.202	0.605	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.281	0.123	0.00	17.20	18.00	1.202	0.338	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.155	0.071	-0.08	17.20	18.00	1.202	0.186	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.160	0.069	-0.10	17.20	18.00	1.202	0.192	22.1
Head Test Data (50%RB) Set1												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.596	0.265	-0.05	17.26	18.00	1.186	0.707	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.319	0.140	-0.17	17.26	18.00	1.186	0.378	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.177	0.082	0.06	17.26	18.00	1.186	0.210	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.176	0.076	-0.03	17.26	18.00	1.186	0.209	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.503	0.224	0.03	17.20	15.00	0.603	0.303	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.281	0.123	0.00	17.20	15.00	0.603	0.169	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.155	0.071	-0.08	17.20	15.00	0.603	0.093	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.160	0.069	-0.10	17.20	15.00	0.603	0.096	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.596	0.265	-0.05	17.26	15.00	0.594	0.354	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.319	0.140	-0.17	17.26	15.00	0.594	0.189	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.177	0.082	0.06	17.26	15.00	0.594	0.105	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.176	0.076	-0.03	17.26	15.00	0.594	0.105	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	100	QPSK 1_1	633334/3500	100%	0.272	0.124	-0.16	19.28	20.00	1.180	0.321	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.508	0.210	-0.14	19.28	20.00	1.180	0.599	22.1
Right side	100	QPSK 1_1	633334/3500	100%	0.340	0.137	-0.01	19.28	20.00	1.180	0.401	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.101	0.045	-0.19	19.28	20.00	1.180	0.119	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	100	QPSK 135_69	633334/3500	100%	0.275	0.127	0.16	19.17	20.00	1.211	0.333	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.562	0.231	0.11	19.17	20.00	1.211	0.681	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.410	0.155	-0.07	19.17	20.00	1.211	0.497	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.102	0.045	0.11	19.17	20.00	1.211	0.124	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 1_1	633334/3500	100%	0.272	0.124	-0.16	19.28	17.00	0.592	0.161	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.508	0.210	-0.14	19.28	17.00	0.592	0.301	22.1
Right side	100	QPSK 1_1	633334/3500	100%	0.340	0.137	-0.01	19.28	17.00	0.592	0.201	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.101	0.045	-0.19	19.28	17.00	0.592	0.060	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.275	0.127	0.16	19.17	17.00	0.607	0.167	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.562	0.231	0.11	19.17	17.00	0.607	0.341	22.1



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Right side	100	QPSK 135_69	633334/3500	100%	0.410	0.155	-0.07	19.17	17.00	0.607	0.249	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.102	0.045	0.11	19.17	17.00	0.607	0.062	22.1



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8.3.25 SAR Result of NR Band n77 (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) Set1												
Left cheek	100	QPSK 1_271	654800/3822	100%	0.979	0.438	-0.19	17.80	18.00	1.047	1.025	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.521	0.228	0.13	17.80	18.00	1.047	0.545	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.348	0.153	0.07	17.80	18.00	1.047	0.364	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.275	0.120	0.08	17.80	18.00	1.047	0.288	22.1
Left cheek	100	QPSK 1_271	657200/3858	100%	0.956	0.412	-0.02	17.73	18.00	1.064	1.017	22.1
Left tilted	100	QPSK 1_271	657200/3858	100%	0.501	0.213	-0.10	17.73	18.00	1.064	0.533	22.1
Head Test Data (50%RB) Set1												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.987	0.444	0.04	17.73	18.00	1.064	1.050	22.1
Left cheek Repeated	100	QPSK 135_69	654800/3822	100%	0.956	0.412	0.09	17.73	18.00	1.064	1.017	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.556	0.241	-0.10	17.73	18.00	1.064	0.592	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.372	0.162	-0.06	17.73	18.00	1.064	0.396	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.315	0.135	-0.17	17.73	18.00	1.064	0.335	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.922	0.401	0.06	17.64	18.00	1.086	1.001	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.489	0.202	-0.05	17.64	18.00	1.086	0.531	22.1
Head Test Data (100%RB) Set1												
Left cheek	100	QPSK 270_0	654800/3822	100%	0.705	0.313	-0.11	16.61	17.00	1.094	0.771	22.1
Head Evaluate Data (1RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 1_271	654800/3822	100%	0.979	0.438	-0.19	17.80	15.00	0.525	0.514	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.521	0.228	0.13	17.80	15.00	0.525	0.274	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.348	0.153	0.07	17.80	15.00	0.525	0.183	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.275	0.120	0.08	17.80	15.00	0.525	0.144	22.1
Left cheek	100	QPSK 1_271	657200/3858	100%	0.956	0.412	-0.02	17.73	15.00	0.533	0.510	22.1
Left tilted	100	QPSK 1_271	657200/3858	100%	0.501	0.213	-0.10	17.73	15.00	0.533	0.267	22.1
Head Evaluate Data (50%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.987	0.444	0.04	17.73	15.00	0.533	0.526	22.1
Left cheek Repeated	100	QPSK 135_69	654800/3822	100%	0.956	0.412	0.09	17.73	15.00	0.533	0.510	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.556	0.241	-0.10	17.73	15.00	0.533	0.296	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.372	0.162	-0.06	17.73	15.00	0.533	0.198	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.315	0.135	-0.17	17.73	15.00	0.533	0.168	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.922	0.401	0.06	17.64	15.00	0.545	0.502	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.489	0.202	-0.05	17.64	15.00	0.545	0.267	22.1
Head Evaluate Data (100%RB) Set1 with Inter Band LTE Uplink CA&ENDC												
Left cheek	100	QPSK 270_0	654800/3822	100%	0.705	0.313	-0.11	16.61	14.00	0.548	0.386	22.1
Hotspot&Body worn Test data (Separate 10mm 1RB) Set2												
Front side	100	QPSK 1_271	657200/3858	100%	0.553	0.252	0.02	19.83	20.00	1.040	0.575	22.1
Back side	100	QPSK 1_271	657200/3858	100%	0.891	0.341	-0.15	19.83	20.00	1.040	0.927	22.1



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Right side	100	QPSK 1_271	657200/3858	100%	0.918	0.377	0.08	19.83	20.00	1.040	0.955	22.1
Top side	100	QPSK 1_271	657200/3858	100%	0.210	0.095	-0.09	19.83	20.00	1.040	0.218	22.1
Front side	100	QPSK 1_1	654800/3822	100%	0.541	0.244	-0.11	19.75	20.00	1.059	0.573	22.1
Back side	100	QPSK 1_1	654800/3822	100%	0.878	0.332	-0.15	19.75	20.00	1.059	0.930	22.1
Right side	100	QPSK 1_1	654800/3822	100%	0.902	0.371	0.00	19.75	20.00	1.059	0.955	22.1
Hotspot&Body worn Test data (Separate 10mm 50%RB) Set2												
Front side	100	QPSK 135_69	654800/3822	100%	0.330	0.165	-0.07	19.74	20.00	1.062	0.350	22.1
Back side	100	QPSK 135_69	654800/3822	100%	1.020	0.429	-0.09	19.74	20.00	1.062	1.083	22.1
Right side	100	QPSK 135_69	654800/3822	100%	1.110	0.438	0.05	19.74	20.00	1.062	1.179	22.1
Right side Repeated	100	QPSK 135_69	654800/3822	100%	1.090	0.426	0.07	19.74	20.00	1.062	1.158	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.239	0.104	0.18	19.74	20.00	1.062	0.254	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.990	0.423	0.18	19.64	20.00	1.086	1.075	22.1
Right side	100	QPSK 135_69	657200/3858	100%	1.050	0.433	0.09	19.64	20.00	1.086	1.140	22.1
Hotspot&Body worn Test data (Separate 10mm 100%RB) Set2												
Back side	100	QPSK 270_0	654800/3822	100%	0.699	0.287	0.08	18.71	19.00	1.069	0.747	22.1
Right side	100	QPSK 270_0	654800/3822	100%	0.711	0.299	-0.16	18.71	19.00	1.069	0.760	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 1RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 1_271	657200/3858	100%	0.553	0.252	0.02	19.83	17.00	0.521	0.288	22.1
Back side	100	QPSK 1_271	657200/3858	100%	0.891	0.341	-0.15	19.83	17.00	0.521	0.464	22.1
Right side	100	QPSK 1_271	657200/3858	100%	0.918	0.377	0.08	19.83	17.00	0.521	0.478	22.1
Top side	100	QPSK 1_271	657200/3858	100%	0.210	0.095	-0.09	19.83	17.00	0.521	0.109	22.1
Front side	100	QPSK 1_1	654800/3822	100%	0.541	0.244	-0.11	19.75	17.00	0.531	0.287	22.1
Back side	100	QPSK 1_1	654800/3822	100%	0.878	0.332	-0.15	19.75	17.00	0.531	0.466	22.1
Right side	100	QPSK 1_1	654800/3822	100%	0.902	0.371	0.00	19.75	17.00	0.531	0.479	22.1
Hotspot&Body worn Evaluate Data (Separate 10mm 50%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Front side	100	QPSK 135_69	654800/3822	100%	0.330	0.165	-0.07	19.74	17.00	0.532	0.176	22.1
Back side	100	QPSK 135_69	654800/3822	100%	1.020	0.429	-0.09	19.74	17.00	0.532	0.543	22.1
Right side	100	QPSK 135_69	654800/3822	100%	1.110	0.438	0.05	19.74	17.00	0.532	0.591	22.1
Right side Repeated	100	QPSK 135_69	654800/3822	100%	1.090	0.426	0.07	19.74	17.00	0.532	0.580	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.239	0.104	0.18	19.74	17.00	0.532	0.127	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.990	0.423	0.18	19.64	17.00	0.545	0.540	22.1
Right side	100	QPSK 135_69	657200/3858	100%	1.050	0.433	0.09	19.64	17.00	0.545	0.572	22.1
Hotspot&Body worn Evaluate Dataa (Separate 10mm 100%RB) Set2 with Inter Band LTE Uplink CA&ENDC												
Back side	100	QPSK 270_0	654800/3822	100%	0.699	0.287	0.08	18.71	16.00	0.536	0.375	22.1
Right side	100	QPSK 270_0	654800/3822	100%	0.711	0.299	-0.16	18.71	16.00	0.536	0.381	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	654800/3822	0.987	0.956	1.032	N/A	N/A
Right side 10mm	654800/3822	1.110	1.090	1.018	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement



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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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8.3.26 SAR Result of WiFi 2.4G

Ant7 Test Record chain0												
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 Set0												
Left cheek	802.11b	6/2437	98.68%	1.013	0.884	0.439	0.03	18.60	19.00	1.096	0.981	21.7
Left cheek Repeated	802.11b	6/2437	98.68%	1.013	0.843	0.421	0.09	18.60	19.00	1.096	0.936	21.7
Left tilted	802.11b	6/2437	98.68%	1.013	0.560	0.277	-0.10	18.60	19.00	1.096	0.622	21.7
Right cheek	802.11b	6/2437	98.68%	1.013	0.328	0.194	0.02	18.60	19.00	1.096	0.364	21.7
Right tilted	802.11b	6/2437	98.68%	1.013	0.271	0.151	-0.13	18.60	19.00	1.096	0.301	21.7
Left cheek	802.11b	1/2412	98.68%	1.013	0.790	0.504	0.09	18.42	19.00	1.143	0.915	21.7
Left cheek	802.11b	11/2462	98.68%	1.013	0.790	0.504	0.16	18.45	19.00	1.135	0.908	21.7
Head Evaluate Data Set2												
Left cheek	802.11b	6/2437	98.68%	1.013	0.884	0.439	0.03	18.60	10.50	0.155	0.139	21.7
Left cheek	802.11b	6/2437	98.68%	1.013	0.843	0.421	0.09	18.60	10.50	0.155	0.132	21.7
Left tilted	802.11b	6/2437	98.68%	1.013	0.560	0.277	0.00	18.60	10.50	0.155	0.088	21.7
Right cheek	802.11b	6/2437	98.68%	1.013	0.328	0.194	-0.01	18.60	10.50	0.155	0.052	21.7
Right tilted	802.11b	6/2437	98.68%	1.013	0.271	0.151	0.12	18.60	10.50	0.155	0.043	21.7
Left cheek	802.11b	1/2412	98.68%	1.013	0.790	0.504	0.16	18.42	10.50	0.161	0.129	21.7
Left cheek	802.11b	11/2462	98.68%	1.013	0.790	0.504	0.06	18.45	10.50	0.160	0.128	21.7
Hotspot&Body worn Test Data (Separate 10mm) Set1												
Front side	802.11b	6/2437	98.68%	1.013	0.115	0.055	-0.13	19.55	20.00	1.109	0.129	21.7
Back side	802.11b	6/2437	98.68%	1.013	0.272	0.138	-0.12	19.55	20.00	1.109	0.306	21.7
Left side	802.11b	6/2437	98.68%	1.013	0.038	0.012	0.16	19.55	20.00	1.109	0.043	21.7
Right side	802.11b	6/2437	98.68%	1.013	0.067	0.034	-0.19	19.55	20.00	1.109	0.075	21.7
Top side	802.11b	6/2437	98.68%	1.013	0.133	0.067	0.13	19.55	20.00	1.109	0.149	21.7
Hotspot&Body worn Evaluate Data (Separate 10mm) Set3												
Front side	802.11b	6/2437	98.68%	1.013	0.115	0.055	-0.13	19.55	15.50	0.394	0.046	21.7
Back side	802.11b	6/2437	98.68%	1.013	0.272	0.138	-0.12	19.55	15.50	0.394	0.109	21.7
Left side	802.11b	6/2437	98.68%	1.013	0.038	0.012	0.16	19.55	15.50	0.394	0.015	21.7
Right side	802.11b	6/2437	98.68%	1.013	0.067	0.034	-0.19	19.55	15.50	0.394	0.027	21.7
Top side	802.11b	6/2437	98.68%	1.013	0.133	0.067	0.13	19.55	15.50	0.394	0.053	21.7

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	6/2437	0.884	0.843	1.049	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.



8.3.27 SAR Result of WiFi 5G

An7 Test Record chain0												
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 Set0												
Left cheek	802.11a	60/5300	98.18%	1.019	0.538	0.175	-0.11	15.10	15.50	1.096	0.601	22
Left tilted	802.11a	60/5300	98.18%	1.019	0.628	0.156	-0.03	15.10	15.50	1.096	0.701	22
Right cheek	802.11a	60/5300	98.18%	1.019	0.235	0.088	-0.05	15.10	15.50	1.096	0.262	22
Right tilted	802.11a	60/5300	98.18%	1.019	0.290	0.104	-0.12	15.10	15.50	1.096	0.324	22
Head Test Data of U-NII-2C Set0												
Left cheek	802.11a	144/5720	98.18%	1.019	0.356	0.121	0.16	15.42	15.50	1.019	0.370	22
Left tilted	802.11a	144/5720	98.18%	1.019	0.394	0.138	0.17	15.42	15.50	1.019	0.409	22
Right cheek	802.11a	144/5720	98.18%	1.019	0.242	0.084	-0.07	15.42	15.50	1.019	0.251	22
Right tilted	802.11a	144/5720	98.18%	1.019	0.273	0.102	-0.18	15.42	15.50	1.019	0.283	22
Head Test Data of U-NII-3 Set0												
Left cheek	802.11a	153/5765	98.18%	1.019	0.324	0.111	-0.10	15.29	15.50	1.050	0.347	22
Left tilted	802.11a	153/5765	98.18%	1.019	0.354	0.124	-0.12	15.29	15.50	1.050	0.379	22
Right cheek	802.11a	153/5765	98.18%	1.019	0.219	0.078	0.14	15.29	15.50	1.050	0.234	22
Right tilted	802.11a	153/5765	98.18%	1.019	0.225	0.083	-0.19	15.29	15.50	1.050	0.241	22
Head Evaluate Data of U-NII-2A Set2												
Left cheek	802.11a	60/5300	98.18%	1.019	0.538	0.175	-0.11	15.10	11.00	0.389	0.213	22
Left tilted	802.11a	60/5300	98.18%	1.019	0.628	0.156	-0.03	15.10	11.00	0.389	0.249	22
Right cheek	802.11a	60/5300	98.18%	1.019	0.235	0.088	-0.05	15.10	11.00	0.389	0.093	22
Right tilted	802.11a	60/5300	98.18%	1.019	0.290	0.104	-0.12	15.10	11.00	0.389	0.115	22
Head Evaluate Data of U-NII-2C Set2												
Left cheek	802.11a	144/5720	98.18%	1.019	0.356	0.121	0.16	15.42	11.00	0.361	0.131	22
Left tilted	802.11a	144/5720	98.18%	1.019	0.394	0.138	0.17	15.42	11.00	0.361	0.145	22
Right cheek	802.11a	144/5720	98.18%	1.019	0.242	0.084	-0.07	15.42	11.00	0.361	0.089	22
Right tilted	802.11a	144/5720	98.18%	1.019	0.273	0.102	-0.18	15.42	11.00	0.361	0.100	22
Head Evaluate Data of U-NII-3 Set2												
Left cheek	802.11a	153/5765	98.18%	1.019	0.324	0.111	-0.10	15.29	11.00	0.372	0.123	22
Left tilted	802.11a	153/5765	98.18%	1.019	0.354	0.124	-0.12	15.29	11.00	0.372	0.134	22
Right cheek	802.11a	153/5765	98.18%	1.019	0.219	0.078	0.14	15.29	11.00	0.372	0.083	22
Right tilted	802.11a	153/5765	98.18%	1.019	0.225	0.083	-0.19	15.29	11.00	0.372	0.085	22
Body worn Test data of U-NII-2A (Separate 10mm) Set1												
Front side	802.11a	60/5300	98.18%	1.019	0.226	0.079	-0.06	18.40	19.00	1.148	0.264	22
Back side	802.11a	60/5300	98.18%	1.019	0.609	0.197	-0.06	18.40	19.00	1.148	0.712	22
Body worn Test data of U-NII-2C (Separate 10mm) Set1												
Front side	802.11a	144/5720	98.18%	1.019	0.173	0.060	0.13	18.46	19.00	1.132	0.200	22
Back side	802.11a	144/5720	98.18%	1.019	0.502	0.172	-0.14	18.46	19.00	1.132	0.579	22
Body worn Test data of U-NII-3 (Separate 10mm) Set1												



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Front side	802.11a	153/5765	98.18%	1.019	0.151	0.056	-0.04	18.36	19.00	1.159	0.178	22
Back side	802.11a	153/5765	98.18%	1.019	0.534	0.166	-0.18	18.36	19.00	1.159	0.631	22
Body worn Evaluate Data of U-NII-2A (Separate 10mm) Set3												
Front side	802.11a	60/5300	98.18%	1.019	0.226	0.079	-0.06	18.40	14.50	0.407	0.094	22
Back side	802.11a	60/5300	98.18%	1.019	0.609	0.197	-0.06	18.40	14.50	0.407	0.253	22
Body worn Evaluate Data of U-NII-2C (Separate 10mm) Set3												
Front side	802.11a	144/5720	98.18%	1.019	0.173	0.060	0.13	18.46	14.50	0.402	0.071	22
Back side	802.11a	144/5720	98.18%	1.019	0.502	0.172	-0.14	18.46	14.50	0.402	0.206	22
Body worn Evaluate Data of U-NII-3 (Separate 10mm) Set3												
Front side	802.11a	153/5765	98.18%	1.019	0.151	0.056	-0.04	18.36	14.50	0.411	0.063	22
Back side	802.11a	153/5765	98.18%	1.019	0.534	0.166	-0.18	18.36	14.50	0.411	0.224	22
Hotspot Test data of U-NII-1 (Separate 10mm) Set1												
Front side	802.11a	40/5200	98.18%	1.019	0.187	0.064	-0.19	18.24	19.00	1.191	0.227	22
Back side	802.11a	40/5200	98.18%	1.019	0.407	0.140	-0.18	18.24	19.00	1.191	0.494	22
Left side	802.11a	40/5200	98.18%	1.019	0.038	0.010	0.18	18.24	19.00	1.191	0.046	22
Right side	802.11a	40/5200	98.18%	1.019	0.147	0.061	-0.10	18.24	19.00	1.191	0.178	22
Top side	802.11a	40/5200	98.18%	1.019	0.543	0.181	-0.17	18.24	19.00	1.191	0.659	22
Hotspot Test data of U-NII-3 (Separate 10mm) Set1												
Front side	802.11a	153/5765	98.18%	1.019	0.151	0.056	0.00	18.36	19.00	1.159	0.178	22
Back side	802.11a	153/5765	98.18%	1.019	0.534	0.166	-0.04	18.36	19.00	1.159	0.631	22
Left side	802.11a	153/5765	98.18%	1.019	0.047	0.011	0.17	18.36	19.00	1.159	0.056	22
Right side	802.11a	153/5765	98.18%	1.019	0.175	0.073	-0.15	18.36	19.00	1.159	0.207	22
Top side	802.11a	153/5765	98.18%	1.019	0.478	0.178	0.06	18.36	19.00	1.159	0.565	22
Hotspot Evaluate Data of U-NII-1 (Separate 10mm) Set3												
Front side	802.11a	40/5200	98.18%	1.019	0.187	0.064	-0.19	18.24	14.50	0.423	0.081	22
Back side	802.11a	40/5200	98.18%	1.019	0.407	0.140	-0.18	18.24	14.50	0.423	0.175	22
Left side	802.11a	40/5200	98.18%	1.019	0.038	0.010	0.18	18.24	14.50	0.423	0.016	22
Right side	802.11a	40/5200	98.18%	1.019	0.147	0.061	-0.10	18.24	14.50	0.423	0.063	22
Top side	802.11a	40/5200	98.18%	1.019	0.543	0.181	-0.17	18.24	14.50	0.423	0.234	22
Hotspot Evaluate Data of U-NII-3 (Separate 10mm) Set3												
Front side	802.11a	153/5765	98.18%	1.019	0.151	0.056	0.00	18.36	14.50	0.411	0.063	22
Back side	802.11a	153/5765	98.18%	1.019	0.534	0.166	-0.04	18.36	14.50	0.411	0.224	22
Left side	802.11a	153/5765	98.18%	1.019	0.047	0.011	0.17	18.36	14.50	0.411	0.020	22
Right side	802.11a	153/5765	98.18%	1.019	0.175	0.073	-0.15	18.36	14.50	0.411	0.073	22
Top side	802.11a	153/5765	98.18%	1.019	0.478	0.178	0.06	18.36	14.50	0.411	0.200	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) Set1												
Front side	802.11a	60/5300	98.18%	1.019	2.780	0.769	-0.02	18.40	19.00	1.148	0.900	22
Back side	802.11a	60/5300	98.18%	1.019	1.750	0.577	0.08	18.40	19.00	1.148	0.675	22
Left side	802.11a	60/5300	98.18%	1.019	0.112	0.034	-0.12	18.40	19.00	1.148	0.040	22
Right side	802.11a	60/5300	98.18%	1.019	0.836	0.287	0.10	18.40	19.00	1.148	0.336	22
Top side	802.11a	60/5300	98.18%	1.019	4.640	1.040	-0.04	18.40	19.00	1.148	1.217	22



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Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set1												
Front side	802.11a	144/5720	98.18%	1.019	1.220	0.383	-0.14	18.46	19.00	1.132	0.442	22
Back side	802.11a	144/5720	98.18%	1.019	1.900	0.532	0.01	18.46	19.00	1.132	0.614	22
Left side	802.11a	144/5720	98.18%	1.019	0.073	0.017	-0.15	18.46	19.00	1.132	0.020	22
Right side	802.11a	144/5720	98.18%	1.019	0.789	0.240	0.00	18.46	19.00	1.132	0.277	22
Top side	802.11a	144/5720	98.18%	1.019	3.810	0.890	0.13	18.46	19.00	1.132	1.027	22
Product specific 10gSAR Evaluate Data of U-NII-2A (Separate 0mm) Set3												
Front side	802.11a	60/5300	98.18%	1.019	2.780	0.769	-0.02	18.40	14.50	0.407	0.319	22
Back side	802.11a	60/5300	98.18%	1.019	1.750	0.577	0.08	18.40	14.50	0.407	0.239	22
Left side	802.11a	60/5300	98.18%	1.019	0.112	0.034	-0.12	18.40	14.50	0.407	0.014	22
Right side	802.11a	60/5300	98.18%	1.019	0.836	0.287	0.10	18.40	14.50	0.407	0.119	22
Top side	802.11a	60/5300	98.18%	1.019	4.640	1.040	-0.04	18.40	14.50	0.407	0.431	22
Product specific 10gSAR Evaluate Data of U-NII-2C (Separate 0mm) Set3												
Front side	802.11a	144/5720	98.18%	1.019	1.220	0.383	-0.14	18.46	14.50	0.402	0.157	22
Back side	802.11a	144/5720	98.18%	1.019	1.900	0.532	0.01	18.46	14.50	0.402	0.218	22
Left side	802.11a	144/5720	98.18%	1.019	0.073	0.017	-0.15	18.46	14.50	0.402	0.007	22
Right side	802.11a	144/5720	98.18%	1.019	0.789	0.240	0.00	18.46	14.50	0.402	0.098	22
Top side	802.11a	144/5720	98.18%	1.019	3.810	0.890	0.13	18.46	14.50	0.402	0.365	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												
Left cheek	DH5	39/2441	77.54%	1.290	0.180	0.087	0.04	11.80	12.00	1.047	0.243	22.1
Left tilted	DH5	39/2441	77.54%	1.290	0.133	0.066	0.11	11.80	12.00	1.047	0.180	22.1
Right cheek	DH5	39/2441	77.54%	1.290	0.069	0.041	0.15	11.80	12.00	1.047	0.093	22.1
Right tilted	DH5	39/2441	77.54%	1.290	0.059	0.032	0.14	11.80	12.00	1.047	0.080	22.1
Hotspot&Body worn Test data (Separate 10mm)												
Front side	DH5	39/2441	77.54%	1.290	0.051	0.026	-0.16	11.80	12.00	1.047	0.069	22.1
Back side	DH5	39/2441	77.54%	1.290	0.062	0.031	-0.01	11.80	12.00	1.047	0.084	22.1
Left side	DH5	39/2441	77.54%	1.290	0.015	0.006	0.10	11.80	12.00	1.047	0.020	22.1
Right side	DH5	39/2441	77.54%	1.290	0.019	0.007	-0.07	11.80	12.00	1.047	0.026	22.1
Top side	DH5	39/2441	77.54%	1.290	0.011	0.004	-0.08	11.80	12.00	1.047	0.015	22.1



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

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



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Sum ULCA(Head):

LTE Band ULCA	Exposure position	Band 1 Max SAR	Band 2 Max SAR	Inter-band CA Summed SAR
		1	2	1+2
2A-7A	Left cheek	0.224	0.455	0.679
	Left tilted	0.086	0.186	0.272
	Right cheek	0.499	0.183	0.682
	Right tilted	0.113	0.147	0.260
4A-7A	Left cheek	0.224	0.507	0.731
	Left tilted	0.086	0.192	0.278
	Right cheek	0.499	0.203	0.702
	Right tilted	0.113	0.164	0.277
5A-7A	Left cheek	0.224	0.570	0.794
	Left tilted	0.086	0.532	0.618
	Right cheek	0.499	0.684	1.183
	Right tilted	0.113	0.000	0.113
4A-12A	Left cheek	0.319	0.507	0.826
	Left tilted	0.274	0.192	0.466
	Right cheek	0.542	0.203	0.745
	Right tilted	0.461	0.164	0.625
4A-17A	Left cheek	0.319	0.507	0.826
	Left tilted	0.274	0.192	0.466
	Right cheek	0.542	0.203	0.745
	Right tilted	0.461	0.164	0.625
7A-12A	Left cheek	0.319	0.224	0.543
	Left tilted	0.274	0.086	0.360
	Right cheek	0.542	0.113	0.655
	Right tilted	0.461	0.000	0.461
7A-66A	Left cheek	0.507	0.224	0.731
	Left tilted	0.192	0.086	0.278
	Right cheek	0.203	0.113	0.316
	Right tilted	0.164	0.000	0.164
12A-66A	Left cheek	0.507	0.319	0.826
	Left tilted	0.192	0.274	0.466
	Right cheek	0.203	0.542	0.745
	Right tilted	0.164	0.000	0.164

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Sum_ENDC(Head):

ENDC Standalone&Simultaneous				
LTE Band (EN_DC)	Exposure position	LTE Max SAR	NR Max SAR	Summed SAR
		1	2	1+2
5A_n2A	Left cheek	0.570	0.542	1.112
	Left tilted	0.532	0.219	0.751
	Right cheek	0.684	0.531	1.215
	Right tilted	0.658	0.446	1.104
12A_n2A	Left cheek	0.319	0.542	0.861
	Left tilted	0.274	0.219	0.493
	Right cheek	0.542	0.531	1.073
	Right tilted	0.461	0.446	0.907
13A_n2A	Left cheek	0.343	0.542	0.885
	Left tilted	0.335	0.219	0.554
	Right cheek	0.479	0.531	1.010
	Right tilted	0.468	0.446	0.914
71A_n2A	Left cheek	0.338	0.542	0.880
	Left tilted	0.327	0.219	0.546
	Right cheek	0.458	0.531	0.989
	Right tilted	0.450	0.446	0.896
2A_n5A	Left cheek	0.455	0.624	1.079
	Left tilted	0.186	0.545	0.731
	Right cheek	0.183	0.905	1.088
	Right tilted	0.147	1.012	1.159
7A_n5A	Left cheek	0.224	0.624	0.848
	Left tilted	0.086	0.545	0.631
	Right cheek	0.499	0.905	1.404
	Right tilted	0.113	1.012	1.125
66A_n5A	Left cheek	0.507	0.624	1.131
	Left tilted	0.192	0.545	0.737
	Right cheek	0.203	0.905	1.108
	Right tilted	0.164	1.012	1.176
2A_n41A	Left cheek	0.062	0.237	0.299
	Left tilted	0.032	0.113	0.145
	Right cheek	0.095	0.570	0.665
	Right tilted	0.051	0.179	0.230
4A_n41A	Left cheek	0.053	0.237	0.290
	Left tilted	0.028	0.113	0.141
	Right cheek	0.084	0.570	0.654
	Right tilted	0.044	0.179	0.223
12A_n41A	Left cheek	0.319	0.237	0.556



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	Left tilted	0.274	0.113	0.387
	Right cheek	0.542	0.570	1.112
	Right tilted	0.461	0.179	0.640
25A_n41A	Left cheek	0.062	0.237	0.299
	Left tilted	0.032	0.113	0.145
	Right cheek	0.095	0.570	0.665
	Right tilted	0.051	0.179	0.230
66A_n41A	Left cheek	0.053	0.237	0.290
	Left tilted	0.028	0.113	0.141
	Right cheek	0.084	0.570	0.654
	Right tilted	0.044	0.179	0.223
71A_n41A	Left cheek	0.338	0.237	0.575
	Left tilted	0.327	0.113	0.440
	Right cheek	0.458	0.570	1.028
	Right tilted	0.450	0.179	0.629
2A_n66A	Left cheek	0.455	0.036	0.491
	Left tilted	0.186	0.019	0.205
	Right cheek	0.183	0.055	0.238
	Right tilted	0.147	0.030	0.177
5A_n66A	Left cheek	0.570	0.430	1.000
	Left tilted	0.532	0.141	0.673
	Right cheek	0.684	0.171	0.855
	Right tilted	0.658	0.131	0.789
7A_n66A	Left cheek	0.224	0.430	0.654
	Left tilted	0.086	0.141	0.227
	Right cheek	0.499	0.171	0.670
	Right tilted	0.113	0.131	0.244
12A_n66A	Left cheek	0.319	0.430	0.749
	Left tilted	0.274	0.141	0.415
	Right cheek	0.542	0.171	0.713
	Right tilted	0.461	0.131	0.592
13A_n66A	Left cheek	0.343	0.430	0.773
	Left tilted	0.335	0.141	0.476
	Right cheek	0.479	0.171	0.650
	Right tilted	0.468	0.131	0.599
71A_n66A	Left cheek	0.338	0.430	0.768
	Left tilted	0.327	0.141	0.468
	Right cheek	0.458	0.171	0.629
	Right tilted	0.450	0.131	0.581
2A_n71A	Left cheek	0.455	0.369	0.824
	Left tilted	0.186	0.322	0.508
	Right cheek	0.183	0.545	0.728
	Right tilted	0.147	0.489	0.636
7A_n71A	Left cheek	0.224	0.369	0.593



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	Left tilted	0.086	0.322	0.408
	Right cheek	0.499	0.545	1.044
	Right tilted	0.113	0.489	0.602
66A_n71A	Left cheek	0.507	0.369	0.876
	Left tilted	0.192	0.322	0.514
	Right cheek	0.203	0.545	0.748
	Right tilted	0.164	0.489	0.653
2A_n77A	Left cheek	0.062	0.526	0.588
	Left tilted	0.032	0.296	0.328
	Right cheek	0.095	0.198	0.293
	Right tilted	0.051	0.168	0.219
5A_n77A	Left cheek	0.570	0.526	1.096
	Left tilted	0.532	0.296	0.828
	Right cheek	0.684	0.198	0.882
	Right tilted	0.658	0.168	0.826
7A_n77A	Left cheek	0.224	0.526	0.750
	Left tilted	0.086	0.296	0.382
	Right cheek	0.499	0.198	0.697
	Right tilted	0.113	0.168	0.281
12A_n77A	Left cheek	0.319	0.526	0.845
	Left tilted	0.274	0.296	0.570
	Right cheek	0.542	0.198	0.740
	Right tilted	0.461	0.168	0.629
13A_n77A	Left cheek	0.343	0.526	0.869
	Left tilted	0.335	0.296	0.631
	Right cheek	0.479	0.198	0.677
	Right tilted	0.468	0.168	0.636
25A_n77A	Left cheek	0.062	0.526	0.588
	Left tilted	0.032	0.296	0.328
	Right cheek	0.095	0.198	0.293
	Right tilted	0.051	0.168	0.219
66A_n77A	Left cheek	0.053	0.526	0.579
	Left tilted	0.028	0.296	0.324
	Right cheek	0.084	0.198	0.282
	Right tilted	0.044	0.168	0.212
71A_n77A	Left cheek	0.338	0.526	0.864
	Left tilted	0.327	0.296	0.623
	Right cheek	0.458	0.198	0.656
	Right tilted	0.450	0.168	0.618
2A_n78A	Left cheek	0.062	0.526	0.588
	Left tilted	0.032	0.296	0.328
	Right cheek	0.095	0.198	0.293
	Right tilted	0.051	0.168	0.219
4A_n78A	Left cheek	0.053	0.526	0.579



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	Left tilted	0.028	0.296	0.324
	Right cheek	0.084	0.198	0.282
	Right tilted	0.044	0.168	0.212
5A_n78A	Left cheek	0.570	0.526	1.096
	Left tilted	0.532	0.296	0.828
	Right cheek	0.684	0.198	0.882
	Right tilted	0.658	0.168	0.826
7A_n78A	Left cheek	0.224	0.526	0.750
	Left tilted	0.086	0.296	0.382
	Right cheek	0.499	0.198	0.697
	Right tilted	0.113	0.168	0.281
12A_n78A	Left cheek	0.319	0.526	0.845
	Left tilted	0.274	0.296	0.570
	Right cheek	0.542	0.198	0.740
	Right tilted	0.461	0.168	0.629
13A_n78A	Left cheek	0.343	0.526	0.869
	Left tilted	0.335	0.296	0.631
	Right cheek	0.479	0.198	0.677
	Right tilted	0.468	0.168	0.636
25A_n78A	Left cheek	0.062	0.526	0.588
	Left tilted	0.032	0.296	0.328
	Right cheek	0.095	0.198	0.293
	Right tilted	0.051	0.168	0.219
66A_n78A	Left cheek	0.053	0.526	0.579
	Left tilted	0.028	0.296	0.324
	Right cheek	0.084	0.198	0.282
	Right tilted	0.044	0.168	0.212
71A_n78A	Left cheek	0.338	0.526	0.864
	Left tilted	0.327	0.296	0.623
	Right cheek	0.458	0.198	0.656
	Right tilted	0.450	0.168	0.618
7A_n2A	Left cheek	0.224	0.014	0.238
	Left tilted	0.086	0.011	0.097
	Right cheek	0.499	0.023	0.522
	Right tilted	0.113	0.019	0.132
66A_n2A	Left cheek	0.053	0.542	0.595
	Left tilted	0.028	0.219	0.247
	Right cheek	0.084	0.531	0.615
	Right tilted	0.044	0.446	0.490
2A-2A_n66A	Left cheek	0.062	0.430	0.492
	Left tilted	0.032	0.141	0.173
	Right cheek	0.095	0.171	0.266
	Right tilted	0.051	0.131	0.182
7A-5A_n2A	Left cheek	0.224	0.542	0.766



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30A-12A_n66A	Left tilted	0.086	0.219	0.305
	Right cheek	0.499	0.531	1.030
	Right tilted	0.113	0.446	0.559
	Left cheek	0.288	0.430	0.718
	Left tilted	0.396	0.141	0.537
	Right cheek	0.336	0.171	0.507
	Right tilted	0.000	0.131	0.131



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Sum Head:

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.857	0.139	0.213	0.243	0.996	1.070	1.100	1.313
	Left tilted	0.840	0.088	0.249	0.180	0.928	1.089	1.020	1.269
	Right cheek	0.938	0.052	0.093	0.093	0.990	1.031	1.031	1.124
	Right tilted	0.952	0.043	0.115	0.080	0.995	1.067	1.032	1.147
GSM1900	Left cheek	1.119	0.139	0.213	0.243	1.258	1.332	1.362	1.575
	Left tilted	0.326	0.088	0.249	0.180	0.414	0.575	0.506	0.755
	Right cheek	0.329	0.052	0.093	0.093	0.381	0.422	0.422	0.515
	Right tilted	0.257	0.043	0.115	0.080	0.300	0.372	0.337	0.452
WCDMA B2	Left cheek	1.067	0.139	0.213	0.243	1.206	1.280	1.310	1.523
	Left tilted	0.432	0.088	0.249	0.180	0.520	0.681	0.612	0.861
	Right cheek	0.476	0.052	0.093	0.093	0.528	0.569	0.569	0.662
	Right tilted	0.362	0.043	0.115	0.080	0.405	0.477	0.442	0.557
WCDMA B4	Left cheek	0.984	0.139	0.213	0.243	1.123	1.197	1.227	1.440
	Left tilted	0.375	0.088	0.249	0.180	0.463	0.624	0.555	0.804
	Right cheek	0.438	0.052	0.093	0.093	0.490	0.531	0.531	0.624
	Right tilted	0.323	0.043	0.115	0.080	0.366	0.438	0.403	0.518
WCDMA B5	Left cheek	0.698	0.139	0.213	0.243	0.837	0.911	0.941	1.154
	Left tilted	0.664	0.088	0.249	0.180	0.752	0.913	0.844	1.093
	Right cheek	0.996	0.052	0.093	0.093	1.048	1.089	1.089	1.182
	Right tilted	0.981	0.043	0.115	0.080	1.024	1.096	1.061	1.176
LTE Band 5	Left cheek	1.033	0.139	0.213	0.243	1.172	1.246	1.276	1.489
	Left tilted	0.968	0.088	0.249	0.180	1.056	1.217	1.148	1.397
	Right cheek	1.366	0.052	0.093	0.093	1.418	1.459	1.459	1.552
	Right tilted	1.308	0.043	0.115	0.080	1.351	1.423	1.388	1.503
LTE Band 7	Left cheek	0.448	0.139	0.213	0.243	0.587	0.661	0.691	0.904
	Left tilted	0.171	0.088	0.249	0.180	0.259	0.420	0.351	0.600
	Right cheek	0.996	0.052	0.093	0.093	1.048	1.089	1.089	1.182
	Right tilted	0.225	0.043	0.115	0.080	0.268	0.340	0.305	0.420
LTE Band 12 (17)	Left cheek	0.637	0.139	0.213	0.243	0.776	0.850	0.880	1.093
	Left tilted	0.548	0.088	0.249	0.180	0.636	0.797	0.728	0.977
	Right cheek	1.080	0.052	0.093	0.093	1.132	1.173	1.173	1.266
	Right tilted	0.919	0.043	0.115	0.080	0.962	1.034	0.999	1.114
LTE Band 13	Left cheek	0.684	0.139	0.213	0.243	0.823	0.897	0.927	1.140
	Left tilted	0.669	0.088	0.249	0.180	0.757	0.918	0.849	1.098
	Right cheek	0.956	0.052	0.093	0.093	1.008	1.049	1.049	1.142
	Right tilted	0.915	0.043	0.115	0.080	0.958	1.030	0.995	1.110
LTE Band 25(2)	Left cheek	0.907	0.139	0.213	0.243	1.046	1.120	1.150	1.363
	Left tilted	0.372	0.088	0.249	0.180	0.460	0.621	0.552	0.801
	Right cheek	0.365	0.052	0.093	0.093	0.417	0.458	0.458	0.551
	Right tilted	0.294	0.043	0.115	0.080	0.337	0.409	0.374	0.489
LTE Band 26	Left cheek	0.770	0.139	0.213	0.243	0.909	0.983	1.013	1.226
	Left tilted	0.740	0.088	0.249	0.180	0.828	0.989	0.920	1.169
	Right cheek	1.107	0.052	0.093	0.093	1.159	1.200	1.200	1.293
	Right tilted	1.159	0.043	0.115	0.080	1.202	1.274	1.239	1.354
LTE Band 30	Left cheek	0.251	0.139	0.213	0.243	0.390	0.464	0.494	0.707
	Left tilted	0.182	0.088	0.249	0.180	0.270	0.431	0.362	0.611
	Right cheek	0.616	0.052	0.093	0.093	0.668	0.709	0.709	0.802
	Right tilted	0.301	0.043	0.115	0.080	0.344	0.416	0.381	0.496
LTE Band 41 (38)	Left cheek	0.431	0.139	0.213	0.243	0.570	0.644	0.674	0.887
	Left tilted	0.154	0.088	0.249	0.180	0.242	0.403	0.334	0.583
	Right cheek	0.906	0.052	0.093	0.093	0.958	0.999	0.999	1.092
	Right tilted	0.242	0.043	0.115	0.080	0.285	0.357	0.322	0.437
LTE Band 42	Left cheek	0.543	0.139	0.213	0.243	0.682	0.756	0.786	0.999
	Left tilted	0.300	0.088	0.249	0.180	0.388	0.549	0.480	0.729
	Right cheek	0.161	0.052	0.093	0.093	0.213	0.254	0.254	0.347



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LTE Band 66 (4)	Right tilted	0.159	0.043	0.115	0.080	0.202	0.274	0.239	0.354
	Left cheek	1.011	0.139	0.213	0.243	1.150	1.224	1.254	1.467
	Left tilted	0.384	0.088	0.249	0.180	0.472	0.633	0.564	0.813
	Right cheek	0.404	0.052	0.093	0.093	0.456	0.497	0.497	0.590
	Right tilted	0.327	0.043	0.115	0.080	0.370	0.442	0.407	0.522
LTE Band 71	Left cheek	0.674	0.139	0.213	0.243	0.813	0.887	0.917	1.130
	Left tilted	0.652	0.088	0.249	0.180	0.740	0.901	0.832	1.081
	Right cheek	0.913	0.052	0.093	0.093	0.965	1.006	1.006	1.099
	Right tilted	0.897	0.043	0.115	0.080	0.940	1.012	0.977	1.092
	Left cheek	0.014	0.139	0.213	0.243	0.153	0.227	0.257	0.470
N2	Left tilted	0.011	0.088	0.249	0.180	0.099	0.260	0.191	0.440
	Right cheek	0.023	0.052	0.093	0.093	0.075	0.116	0.116	0.209
	Right tilted	0.019	0.043	0.115	0.080	0.062	0.134	0.099	0.214
	Left cheek	0.786	0.139	0.213	0.243	0.925	0.999	1.029	1.242
	Left tilted	0.686	0.088	0.249	0.180	0.774	0.935	0.866	1.115
N5	Right cheek	1.139	0.052	0.093	0.093	1.191	1.232	1.232	1.325
	Right tilted	1.012	0.043	0.115	0.080	1.055	1.127	1.092	1.207
	Left cheek	0.519	0.139	0.213	0.243	0.658	0.732	0.762	0.975
	Left tilted	0.207	0.088	0.249	0.180	0.295	0.456	0.387	0.636
	Right cheek	1.342	0.052	0.093	0.093	1.394	1.435	1.435	1.528
N7	Right tilted	0.406	0.043	0.115	0.080	0.449	0.521	0.486	0.601
	Left cheek	1.082	0.139	0.213	0.243	1.221	1.295	1.325	1.538
	Left tilted	0.437	0.088	0.249	0.180	0.525	0.686	0.617	0.866
	Right cheek	1.061	0.052	0.093	0.093	1.113	1.154	1.154	1.247
	Right tilted	0.889	0.043	0.115	0.080	0.932	1.004	0.969	1.084
N25	Left cheek	0.237	0.139	0.213	0.243	0.376	0.450	0.480	0.693
	Left tilted	0.113	0.088	0.249	0.180	0.201	0.362	0.293	0.542
	Right cheek	0.570	0.052	0.093	0.093	0.622	0.663	0.663	0.756
	Right tilted	0.179	0.043	0.115	0.080	0.222	0.294	0.259	0.374
	Left cheek	0.859	0.139	0.213	0.243	0.998	1.072	1.102	1.315
N41(38)	Left tilted	0.282	0.088	0.249	0.180	0.370	0.531	0.462	0.711
	Right cheek	0.342	0.052	0.093	0.093	0.394	0.435	0.435	0.528
	Right tilted	0.262	0.043	0.115	0.080	0.305	0.377	0.342	0.457
	Left cheek	0.736	0.139	0.213	0.243	0.875	0.949	0.979	1.192
	Left tilted	0.642	0.088	0.249	0.180	0.730	0.891	0.822	1.071
N66	Right cheek	1.087	0.052	0.093	0.093	1.139	1.180	1.180	1.273
	Right tilted	0.976	0.043	0.115	0.080	1.019	1.091	1.056	1.171
	Left cheek	1.050	0.139	0.213	0.243	1.189	1.263	1.293	1.506
	Left tilted	0.592	0.088	0.249	0.180	0.680	0.841	0.772	1.021
	Right cheek	0.396	0.052	0.093	0.093	0.448	0.489	0.489	0.582
N71	Right tilted	0.335	0.043	0.115	0.080	0.378	0.450	0.415	0.530
	Left cheek	0.679	0.139	0.213	0.243	0.818	0.892	0.922	1.135
	Left tilted	0.272	0.088	0.249	0.180	0.360	0.521	0.452	0.701
	Right cheek	0.682	0.052	0.093	0.093	0.734	0.775	0.775	0.868
	Right tilted	0.260	0.043	0.115	0.080	0.303	0.375	0.340	0.455
N77 (78)	Left cheek	0.731	0.139	0.213	0.243	0.870	0.944	0.974	1.187
	Left tilted	0.278	0.088	0.249	0.180	0.366	0.527	0.458	0.707
	Right cheek	0.702	0.052	0.093	0.093	0.754	0.795	0.795	0.888
	Right tilted	0.277	0.043	0.115	0.080	0.320	0.392	0.357	0.472
	Left cheek	0.794	0.139	0.213	0.243	0.933	1.007	1.037	1.250
2A-7A	Left tilted	0.618	0.088	0.249	0.180	0.706	0.867	0.798	1.047
	Right cheek	1.183	0.052	0.093	0.093	1.235	1.276	1.276	1.369
	Right tilted	0.113	0.043	0.115	0.080	0.156	0.228	0.193	0.308
	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282
	Left tilted	0.466	0.088	0.249	0.180	0.554	0.715	0.646	0.895
4A-7A	Right cheek	0.745	0.052	0.093	0.093	0.797	0.838	0.838	0.931
	Right tilted	0.625	0.043	0.115	0.080	0.668	0.740	0.705	0.820
	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282
	Left tilted	0.466	0.088	0.249	0.180	0.554	0.715	0.646	0.895
	Right cheek	0.745	0.052	0.093	0.093	0.797	0.838	0.838	0.931
4A-12A	Right tilted	0.625	0.043	0.115	0.080	0.668	0.740	0.705	0.820
	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282
	Left tilted	0.466	0.088	0.249	0.180	0.554	0.715	0.646	0.895
	Right cheek	0.745	0.052	0.093	0.093	0.797	0.838	0.838	0.931
	Right tilted	0.625	0.043	0.115	0.080	0.668	0.740	0.705	0.820
4A-17A	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282
	Left tilted	0.466	0.088	0.249	0.180	0.554	0.715	0.646	0.895
	Right cheek	0.745	0.052	0.093	0.093	0.797	0.838	0.838	0.931
	Right tilted	0.625	0.043	0.115	0.080	0.668	0.740	0.705	0.820
	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282



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7A-12A	Left cheek	0.543	0.139	0.213	0.243	0.682	0.756	0.786	0.999
	Left tilted	0.360	0.088	0.249	0.180	0.448	0.609	0.540	0.789
	Right cheek	0.655	0.052	0.093	0.093	0.707	0.748	0.748	0.841
	Right tilted	0.461	0.043	0.115	0.080	0.504	0.576	0.541	0.656
7A-66A	Left cheek	0.731	0.139	0.213	0.243	0.870	0.944	0.974	1.187
	Left tilted	0.278	0.088	0.249	0.180	0.366	0.527	0.458	0.707
	Right cheek	0.316	0.052	0.093	0.093	0.368	0.409	0.409	0.502
	Right tilted	0.164	0.043	0.115	0.080	0.207	0.279	0.244	0.359
12A-66A	Left cheek	0.826	0.139	0.213	0.243	0.965	1.039	1.069	1.282
	Left tilted	0.466	0.088	0.249	0.180	0.554	0.715	0.646	0.895
	Right cheek	0.745	0.052	0.093	0.093	0.797	0.838	0.838	0.931
	Right tilted	0.164	0.043	0.115	0.080	0.207	0.279	0.244	0.359
5A_n2A	Left cheek	1.112	0.139	0.213	0.243	1.251	1.325	1.355	1.568
	Left tilted	0.751	0.088	0.249	0.180	0.839	1.000	0.931	1.180
	Right cheek	1.215	0.052	0.093	0.093	1.267	1.308	1.308	1.401
	Right tilted	1.104	0.043	0.115	0.080	1.147	1.219	1.184	1.299
12A_n2A	Left cheek	0.861	0.139	0.213	0.243	1.000	1.074	1.104	1.317
	Left tilted	0.493	0.088	0.249	0.180	0.581	0.742	0.673	0.922
	Right cheek	1.073	0.052	0.093	0.093	1.125	1.166	1.166	1.259
	Right tilted	0.907	0.043	0.115	0.080	0.950	1.022	0.987	1.102
13A_n2A	Left cheek	0.885	0.139	0.213	0.243	1.024	1.098	1.128	1.341
	Left tilted	0.554	0.088	0.249	0.180	0.642	0.803	0.734	0.983
	Right cheek	1.010	0.052	0.093	0.093	1.062	1.103	1.103	1.196
	Right tilted	0.914	0.043	0.115	0.080	0.957	1.029	0.994	1.109
71A_n2A	Left cheek	0.880	0.139	0.213	0.243	1.019	1.093	1.123	1.336
	Left tilted	0.546	0.088	0.249	0.180	0.634	0.795	0.726	0.975
	Right cheek	0.989	0.052	0.093	0.093	1.041	1.082	1.082	1.175
	Right tilted	0.896	0.043	0.115	0.080	0.939	1.011	0.976	1.091
2A_n5A	Left cheek	1.079	0.139	0.213	0.243	1.218	1.292	1.322	1.535
	Left tilted	0.731	0.088	0.249	0.180	0.819	0.980	0.911	1.160
	Right cheek	1.088	0.052	0.093	0.093	1.140	1.181	1.181	1.274
	Right tilted	1.159	0.043	0.115	0.080	1.202	1.274	1.239	1.354
7A_n5A	Left cheek	0.848	0.139	0.213	0.243	0.987	1.061	1.091	1.304
	Left tilted	0.631	0.088	0.249	0.180	0.719	0.880	0.811	1.060
	Right cheek	1.404	0.052	0.093	0.093	1.456	1.497	1.497	1.590
	Right tilted	1.125	0.043	0.115	0.080	1.168	1.240	1.205	1.320
66A_n5A	Left cheek	1.131	0.139	0.213	0.243	1.270	1.344	1.374	1.587
	Left tilted	0.737	0.088	0.249	0.180	0.825	0.986	0.917	1.166
	Right cheek	1.108	0.052	0.093	0.093	1.160	1.201	1.201	1.294
	Right tilted	1.176	0.043	0.115	0.080	1.219	1.291	1.256	1.371
2A_n41A	Left cheek	0.299	0.139	0.213	0.243	0.438	0.512	0.542	0.755
	Left tilted	0.145	0.088	0.249	0.180	0.233	0.394	0.325	0.574
	Right cheek	0.665	0.052	0.093	0.093	0.717	0.758	0.758	0.851
	Right tilted	0.230	0.043	0.115	0.080	0.273	0.345	0.310	0.425
4A_n41A	Left cheek	0.290	0.139	0.213	0.243	0.429	0.503	0.533	0.746
	Left tilted	0.141	0.088	0.249	0.180	0.229	0.390	0.321	0.570
	Right cheek	0.654	0.052	0.093	0.093	0.706	0.747	0.747	0.840
	Right tilted	0.223	0.043	0.115	0.080	0.266	0.338	0.303	0.418
12A_n41A	Left cheek	0.556	0.139	0.213	0.243	0.695	0.769	0.799	1.012
	Left tilted	0.387	0.088	0.249	0.180	0.475	0.636	0.567	0.816
	Right cheek	1.112	0.052	0.093	0.093	1.164	1.205	1.205	1.298
	Right tilted	0.640	0.043	0.115	0.080	0.683	0.755	0.720	0.835
25A_n41A	Left cheek	0.299	0.139	0.213	0.243	0.438	0.512	0.542	0.755
	Left tilted	0.145	0.088	0.249	0.180	0.233	0.394	0.325	0.574
	Right cheek	0.665	0.052	0.093	0.093	0.717	0.758	0.758	0.851
	Right tilted	0.230	0.043	0.115	0.080	0.273	0.345	0.310	0.425
66A_n41A	Left cheek	0.290	0.139	0.213	0.243	0.429	0.503	0.533	0.746
	Left tilted	0.141	0.088	0.249	0.180	0.229	0.390	0.321	0.570
	Right cheek	0.654	0.052	0.093	0.093	0.706	0.747	0.747	0.840
	Right tilted	0.223	0.043	0.115	0.080	0.266	0.338	0.303	0.418
71A_n41A	Left cheek	0.575	0.139	0.213	0.243	0.714	0.788	0.818	1.031



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	Left tilted	0.440	0.088	0.249	0.180	0.528	0.689	0.620	0.869
	Right cheek	1.028	0.052	0.093	0.093	1.080	1.121	1.121	1.214
	Right tilted	0.629	0.043	0.115	0.080	0.672	0.744	0.709	0.824
2A_n66A	Left cheek	0.491	0.139	0.213	0.243	0.630	0.704	0.734	0.947
	Left tilted	0.205	0.088	0.249	0.180	0.293	0.454	0.385	0.634
	Right cheek	0.238	0.052	0.093	0.093	0.290	0.331	0.331	0.424
	Right tilted	0.177	0.043	0.115	0.080	0.220	0.292	0.257	0.372
5A_n66A	Left cheek	1.000	0.139	0.213	0.243	1.139	1.213	1.243	1.456
	Left tilted	0.673	0.088	0.249	0.180	0.761	0.922	0.853	1.102
	Right cheek	0.855	0.052	0.093	0.093	0.907	0.948	0.948	1.041
	Right tilted	0.789	0.043	0.115	0.080	0.832	0.904	0.869	0.984
7A_n66A	Left cheek	0.654	0.139	0.213	0.243	0.793	0.867	0.897	1.110
	Left tilted	0.227	0.088	0.249	0.180	0.315	0.476	0.407	0.656
	Right cheek	0.670	0.052	0.093	0.093	0.722	0.763	0.763	0.856
	Right tilted	0.244	0.043	0.115	0.080	0.287	0.359	0.324	0.439
12A_n66A	Left cheek	0.749	0.139	0.213	0.243	0.888	0.962	0.992	1.205
	Left tilted	0.415	0.088	0.249	0.180	0.503	0.664	0.595	0.844
	Right cheek	0.713	0.052	0.093	0.093	0.765	0.806	0.806	0.899
	Right tilted	0.592	0.043	0.115	0.080	0.635	0.707	0.672	0.787
13A_n66A	Left cheek	0.773	0.139	0.213	0.243	0.912	0.986	1.016	1.229
	Left tilted	0.476	0.088	0.249	0.180	0.564	0.725	0.656	0.905
	Right cheek	0.650	0.052	0.093	0.093	0.702	0.743	0.743	0.836
	Right tilted	0.599	0.043	0.115	0.080	0.642	0.714	0.679	0.794
71A_n66A	Left cheek	0.768	0.139	0.213	0.243	0.907	0.981	1.011	1.224
	Left tilted	0.468	0.088	0.249	0.180	0.556	0.717	0.648	0.897
	Right cheek	0.629	0.052	0.093	0.093	0.681	0.722	0.722	0.815
	Right tilted	0.581	0.043	0.115	0.080	0.624	0.696	0.661	0.776
2A_n71A	Left cheek	0.824	0.139	0.213	0.243	0.963	1.037	1.067	1.280
	Left tilted	0.508	0.088	0.249	0.180	0.596	0.757	0.688	0.937
	Right cheek	0.728	0.052	0.093	0.093	0.780	0.821	0.821	0.914
	Right tilted	0.636	0.043	0.115	0.080	0.679	0.751	0.716	0.831
7A_n71A	Left cheek	0.593	0.139	0.213	0.243	0.732	0.806	0.836	1.049
	Left tilted	0.408	0.088	0.249	0.180	0.496	0.657	0.588	0.837
	Right cheek	1.044	0.052	0.093	0.093	1.096	1.137	1.137	1.230
	Right tilted	0.602	0.043	0.115	0.080	0.645	0.717	0.682	0.797
66A_n71A	Left cheek	0.876	0.139	0.213	0.243	1.015	1.089	1.119	1.332
	Left tilted	0.514	0.088	0.249	0.180	0.602	0.763	0.694	0.943
	Right cheek	0.748	0.052	0.093	0.093	0.800	0.841	0.841	0.934
	Right tilted	0.653	0.043	0.115	0.080	0.696	0.768	0.733	0.848
2A_n77A	Left cheek	0.588	0.139	0.213	0.243	0.727	0.801	0.831	1.044
	Left tilted	0.328	0.088	0.249	0.180	0.416	0.577	0.508	0.757
	Right cheek	0.293	0.052	0.093	0.093	0.345	0.386	0.386	0.479
	Right tilted	0.219	0.043	0.115	0.080	0.262	0.334	0.299	0.414
5A_n77A	Left cheek	1.096	0.139	0.213	0.243	1.235	1.309	1.339	1.552
	Left tilted	0.828	0.088	0.249	0.180	0.916	1.077	1.008	1.257
	Right cheek	0.882	0.052	0.093	0.093	0.934	0.975	0.975	1.068
	Right tilted	0.826	0.043	0.115	0.080	0.869	0.941	0.906	1.021
7A_n77A	Left cheek	0.750	0.139	0.213	0.243	0.889	0.963	0.993	1.206
	Left tilted	0.382	0.088	0.249	0.180	0.470	0.631	0.562	0.811
	Right cheek	0.697	0.052	0.093	0.093	0.749	0.790	0.790	0.883
	Right tilted	0.281	0.043	0.115	0.080	0.324	0.396	0.361	0.476
12A_n77A	Left cheek	0.845	0.139	0.213	0.243	0.984	1.058	1.088	1.301
	Left tilted	0.570	0.088	0.249	0.180	0.658	0.819	0.750	0.999
	Right cheek	0.740	0.052	0.093	0.093	0.792	0.833	0.833	0.926
	Right tilted	0.629	0.043	0.115	0.080	0.672	0.744	0.709	0.824
13A_n77A	Left cheek	0.869	0.139	0.213	0.243	1.008	1.082	1.112	1.325
	Left tilted	0.631	0.088	0.249	0.180	0.719	0.880	0.811	1.060
	Right cheek	0.677	0.052	0.093	0.093	0.729	0.770	0.770	0.863
	Right tilted	0.636	0.043	0.115	0.080	0.679	0.751	0.716	0.831
25A_n77A	Left cheek	0.588	0.139	0.213	0.243	0.727	0.801	0.831	1.044
	Left tilted	0.328	0.088	0.249	0.180	0.416	0.577	0.508	0.757



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	Right cheek	0.293	0.052	0.093	0.093	0.345	0.386	0.386	0.479
	Right tilted	0.219	0.043	0.115	0.080	0.262	0.334	0.299	0.414
66A_n77A	Left cheek	0.579	0.139	0.213	0.243	0.718	0.792	0.822	1.035
	Left tilted	0.324	0.088	0.249	0.180	0.412	0.573	0.504	0.753
	Right cheek	0.282	0.052	0.093	0.093	0.334	0.375	0.375	0.468
	Right tilted	0.212	0.043	0.115	0.080	0.255	0.327	0.292	0.407
71A_n77A	Left cheek	0.864	0.139	0.213	0.243	1.003	1.077	1.107	1.320
	Left tilted	0.623	0.088	0.249	0.180	0.711	0.872	0.803	1.052
	Right cheek	0.656	0.052	0.093	0.093	0.708	0.749	0.749	0.842
	Right tilted	0.618	0.043	0.115	0.080	0.661	0.733	0.698	0.813
2A_n78A	Left cheek	0.588	0.139	0.213	0.243	0.727	0.801	0.831	1.044
	Left tilted	0.328	0.088	0.249	0.180	0.416	0.577	0.508	0.757
	Right cheek	0.293	0.052	0.093	0.093	0.345	0.386	0.386	0.479
	Right tilted	0.219	0.043	0.115	0.080	0.262	0.334	0.299	0.414
4A_n78A	Left cheek	0.579	0.139	0.213	0.243	0.718	0.792	0.822	1.035
	Left tilted	0.324	0.088	0.249	0.180	0.412	0.573	0.504	0.753
	Right cheek	0.282	0.052	0.093	0.093	0.334	0.375	0.375	0.468
	Right tilted	0.212	0.043	0.115	0.080	0.255	0.327	0.292	0.407
5A_n78A	Left cheek	1.096	0.139	0.213	0.243	1.235	1.309	1.339	1.552
	Left tilted	0.828	0.088	0.249	0.180	0.916	1.077	1.008	1.257
	Right cheek	0.882	0.052	0.093	0.093	0.934	0.975	0.975	1.068
	Right tilted	0.826	0.043	0.115	0.080	0.869	0.941	0.906	1.021
7A_n78A	Left cheek	0.750	0.139	0.213	0.243	0.889	0.963	0.993	1.206
	Left tilted	0.382	0.088	0.249	0.180	0.470	0.631	0.562	0.811
	Right cheek	0.697	0.052	0.093	0.093	0.749	0.790	0.790	0.883
	Right tilted	0.281	0.043	0.115	0.080	0.324	0.396	0.361	0.476
12A_n78A	Left cheek	0.845	0.139	0.213	0.243	0.984	1.058	1.088	1.301
	Left tilted	0.570	0.088	0.249	0.180	0.658	0.819	0.750	0.999
	Right cheek	0.740	0.052	0.093	0.093	0.792	0.833	0.833	0.926
	Right tilted	0.629	0.043	0.115	0.080	0.672	0.744	0.709	0.824
13A_n78A	Left cheek	0.869	0.139	0.213	0.243	1.008	1.082	1.112	1.325
	Left tilted	0.631	0.088	0.249	0.180	0.719	0.880	0.811	1.060
	Right cheek	0.677	0.052	0.093	0.093	0.729	0.770	0.770	0.863
	Right tilted	0.636	0.043	0.115	0.080	0.679	0.751	0.716	0.831
25A_n78A	Left cheek	0.588	0.139	0.213	0.243	0.727	0.801	0.831	1.044
	Left tilted	0.328	0.088	0.249	0.180	0.416	0.577	0.508	0.757
	Right cheek	0.293	0.052	0.093	0.093	0.345	0.386	0.386	0.479
	Right tilted	0.219	0.043	0.115	0.080	0.262	0.334	0.299	0.414
66A_n78A	Left cheek	0.579	0.139	0.213	0.243	0.718	0.792	0.822	1.035
	Left tilted	0.324	0.088	0.249	0.180	0.412	0.573	0.504	0.753
	Right cheek	0.282	0.052	0.093	0.093	0.334	0.375	0.375	0.468
	Right tilted	0.212	0.043	0.115	0.080	0.255	0.327	0.292	0.407
71A_n78A	Left cheek	0.864	0.139	0.213	0.243	1.003	1.077	1.107	1.320
	Left tilted	0.623	0.088	0.249	0.180	0.711	0.872	0.803	1.052
	Right cheek	0.656	0.052	0.093	0.093	0.708	0.749	0.749	0.842
	Right tilted	0.618	0.043	0.115	0.080	0.661	0.733	0.698	0.813
7A_n2A	Left cheek	0.238	0.139	0.213	0.243	0.377	0.451	0.481	0.694
	Left tilted	0.097	0.088	0.249	0.180	0.185	0.346	0.277	0.526
	Right cheek	0.522	0.052	0.093	0.093	0.574	0.615	0.615	0.708
	Right tilted	0.132	0.043	0.115	0.080	0.175	0.247	0.212	0.327
66A_n2A	Left cheek	0.595	0.139	0.213	0.243	0.734	0.808	0.838	1.051
	Left tilted	0.247	0.088	0.249	0.180	0.335	0.496	0.427	0.676
	Right cheek	0.615	0.052	0.093	0.093	0.667	0.708	0.708	0.801
	Right tilted	0.490	0.043	0.115	0.080	0.533	0.605	0.570	0.685
2A-2A_n66A	Left cheek	0.492	0.139	0.213	0.243	0.631	0.705	0.735	0.948
	Left tilted	0.173	0.088	0.249	0.180	0.261	0.422	0.353	0.602
	Right cheek	0.266	0.052	0.093	0.093	0.318	0.359	0.359	0.452
	Right tilted	0.182	0.043	0.115	0.080	0.225	0.297	0.262	0.377
7A-5A_n2A	Left cheek	0.766	0.139	0.213	0.243	0.905	0.979	1.009	1.222
	Left tilted	0.305	0.088	0.249	0.180	0.393	0.554	0.485	0.734
	Right cheek	1.030	0.052	0.093	0.093	1.082	1.123	1.123	1.216



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	Right tilted	0.559	0.043	0.115	0.080	0.602	0.674	0.639	0.754
	Left cheek	0.718	0.139	0.213	0.243	0.857	0.931	0.961	1.174
30A-12A_n66A	Left tilted	0.537	0.088	0.249	0.180	0.625	0.786	0.717	0.966
	Right cheek	0.507	0.052	0.093	0.093	0.559	0.600	0.600	0.693
	Right tilted	0.131	0.043	0.115	0.080	0.174	0.246	0.211	0.326



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Sum_ULCA(Body-Worn):

LTE Band ULCA	Exposure position	Band 1 Max SAR	Band 2 Max SAR	Inter-band CA Summed SAR
		1	2	1+2
2A-7A	Front side	0.199	0.262	0.461
	Back side	0.326	0.481	0.807
4A-7A	Front side	0.199	0.128	0.327
	Back side	0.326	0.197	0.523
5A-7A	Front side	0.199	0.558	0.757
	Back side	0.326	0.692	1.018
4A-12A	Front side	0.377	0.128	0.505
	Back side	0.504	0.197	0.701
4A-17A	Front side	0.377	0.128	0.505
	Back side	0.504	0.197	0.701
7A-12A	Front side	0.377	0.199	0.576
	Back side	0.504	0.326	0.830
7A-66A	Front side	0.128	0.199	0.327
	Back side	0.197	0.326	0.523
12A-66A	Front side	0.128	0.377	0.505
	Back side	0.197	0.504	0.701

Sum_ENDC(Body-Worn):

ENDC Standalone&Simultaneous				
LTE Band ULCA	Exposure position	LTE Max SAR	NR Max SAR	Summed SAR
		1	2	1+2
5A_n2A	Front side	0.558	0.241	0.799
	Back side	0.692	0.228	0.920
12A_n2A	Front side	0.377	0.241	0.618
	Back side	0.504	0.228	0.732
13A_n2A	Front side	0.500	0.241	0.741
	Back side	0.629	0.228	0.857
71A_n2A	Front side	0.188	0.241	0.429
	Back side	0.314	0.228	0.542
2A_n5A	Front side	0.262	0.541	0.803
	Back side	0.481	0.729	1.210
7A_n5A	Front side	0.181	0.541	0.722
	Back side	0.297	0.729	1.026
66A_n5A	Front side	0.128	0.541	0.669
	Back side	0.197	0.729	0.926
2A_n41A	Front side	0.246	0.294	0.540
	Back side	0.476	0.565	1.041
4A_n41A	Front side	0.106	0.294	0.400
	Back side	0.264	0.565	0.829
12A_n41A	Front side	0.377	0.294	0.671
	Back side	0.504	0.565	1.069
25A_n41A	Front side	0.246	0.294	0.540
	Back side	0.476	0.565	1.041
66A_n41A	Front side	0.106	0.294	0.400
	Back side	0.264	0.565	0.829
71A_n41A	Front side	0.188	0.294	0.482



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	Back side	0.314	0.565	0.879
2A_n66A	Front side	0.262	0.085	0.347
	Back side	0.481	0.214	0.695
5A_n66A	Front side	0.558	0.233	0.791
	Back side	0.692	0.140	0.832
7A_n66A	Front side	0.181	0.233	0.414
	Back side	0.297	0.140	0.437
12A_n66A	Front side	0.377	0.233	0.610
	Back side	0.504	0.140	0.644
13A_n66A	Front side	0.500	0.233	0.733
	Back side	0.629	0.140	0.769
71A_n66A	Front side	0.188	0.233	0.421
	Back side	0.314	0.140	0.454
2A_n71A	Front side	0.262	0.264	0.526
	Back side	0.481	0.441	0.922
7A_n71A	Front side	0.181	0.264	0.445
	Back side	0.297	0.441	0.738
66A_n71A	Front side	0.128	0.264	0.392
	Back side	0.197	0.441	0.638
2A_n77A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
5A_n77A	Front side	0.558	0.288	0.846
	Back side	0.692	0.543	1.235
7A_n77A	Front side	0.181	0.288	0.469
	Back side	0.297	0.543	0.840
12A_n77A	Front side	0.377	0.288	0.665
	Back side	0.504	0.543	1.047
13A_n77A	Front side	0.500	0.288	0.788
	Back side	0.629	0.543	1.172
25A_n77A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
66A_n77A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
71A_n77A	Front side	0.188	0.288	0.476
	Back side	0.314	0.543	0.857
2A_n78A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
4A_n78A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
5A_n78A	Front side	0.558	0.288	0.846
	Back side	0.692	0.543	1.235
7A_n78A	Front side	0.181	0.288	0.469
	Back side	0.297	0.543	0.840
12A_n78A	Front side	0.377	0.288	0.665
	Back side	0.504	0.543	1.047
13A_n78A	Front side	0.500	0.288	0.788
	Back side	0.629	0.543	1.172
25A_n78A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
66A_n78A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
71A_n78A	Front side	0.188	0.288	0.476
	Back side	0.314	0.543	0.857
7A_n2A	Front side	0.181	0.160	0.341
	Back side	0.297	0.287	0.584
66A_n2A	Front side	0.106	0.241	0.347
	Back side	0.264	0.228	0.492
2A-2A_n66A	Front side	0.246	0.233	0.479
	Back side	0.476	0.140	0.616
7A-5A_n2A	Front side	0.181	0.241	0.422
	Back side	0.297	0.228	0.525



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30A-12A_n66A	Front side	0.288	0.233	0.521
	Back side	0.396	0.140	0.536

Sum_Body_Worn:

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.767	0.046	0.081	0.069	0.813	0.848	0.836	0.917
	Back side	1.260	0.109	0.224	0.084	1.369	1.484	1.344	1.568
GSM1900	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.801	0.109	0.224	0.084	0.910	1.025	0.885	1.109
WCDMA B2	Front side	0.518	0.046	0.081	0.069	0.564	0.599	0.587	0.668
	Back side	0.898	0.109	0.224	0.084	1.007	1.122	0.982	1.206
WCDMA B4	Front side	0.378	0.046	0.081	0.069	0.424	0.459	0.447	0.528
	Back side	0.703	0.109	0.224	0.084	0.812	0.927	0.787	1.011
WCDMA B5	Front side	0.396	0.046	0.081	0.069	0.442	0.477	0.465	0.546
	Back side	0.606	0.109	0.224	0.084	0.715	0.830	0.690	0.914
LTE Band 5	Front side	0.869	0.046	0.081	0.069	0.915	0.950	0.938	1.019
	Back side	1.064	0.109	0.224	0.084	1.173	1.288	1.148	1.372
LTE Band 7	Front side	0.362	0.046	0.081	0.069	0.408	0.443	0.431	0.512
	Back side	0.594	0.109	0.224	0.084	0.703	0.818	0.678	0.902
LTE Band 12(17)	Front side	0.377	0.046	0.081	0.069	0.423	0.458	0.446	0.527
	Back side	0.504	0.109	0.224	0.084	0.613	0.728	0.588	0.812
LTE Band 13	Front side	0.792	0.046	0.081	0.069	0.838	0.873	0.861	0.942
	Back side	0.995	0.109	0.224	0.084	1.104	1.219	1.079	1.303
LTE Band 25(2)	Front side	0.523	0.046	0.081	0.069	0.569	0.604	0.592	0.673
	Back side	0.960	0.109	0.224	0.084	1.069	1.184	1.044	1.268
LTE Band 26	Front side	0.578	0.046	0.081	0.069	0.624	0.659	0.647	0.728
	Back side	0.613	0.109	0.224	0.084	0.722	0.837	0.697	0.921
LTE Band 30	Front side	0.288	0.046	0.081	0.069	0.334	0.369	0.357	0.438
	Back side	0.396	0.109	0.224	0.084	0.505	0.620	0.480	0.704
LTE Band 41(38)	Front side	0.310	0.046	0.081	0.069	0.356	0.391	0.379	0.460
	Back side	0.474	0.109	0.224	0.084	0.583	0.698	0.558	0.782
LTE Band 42	Front side	0.085	0.046	0.081	0.069	0.131	0.166	0.154	0.235
	Back side	0.234	0.109	0.224	0.084	0.343	0.458	0.318	0.542
LTE Band 66(4)	Front side	0.255	0.046	0.081	0.069	0.301	0.336	0.324	0.405
	Back side	0.392	0.109	0.224	0.084	0.501	0.616	0.476	0.700
LTE Band 71	Front side	0.188	0.046	0.081	0.069	0.234	0.269	0.257	0.338
	Back side	0.314	0.109	0.224	0.084	0.423	0.538	0.398	0.622
N2	Front side	0.160	0.046	0.081	0.069	0.206	0.241	0.229	0.310
	Back side	0.287	0.109	0.224	0.084	0.396	0.511	0.371	0.595
N5	Front side	0.541	0.046	0.081	0.069	0.587	0.622	0.610	0.691
	Back side	0.729	0.109	0.224	0.084	0.838	0.953	0.813	1.037
N7	Front side	0.554	0.046	0.081	0.069	0.600	0.635	0.623	0.704
	Back side	0.870	0.109	0.224	0.084	0.979	1.094	0.954	1.178
N25	Front side	0.480	0.046	0.081	0.069	0.526	0.561	0.549	0.630
	Back side	0.455	0.109	0.224	0.084	0.564	0.679	0.539	0.763
N41(38)	Front side	0.586	0.046	0.081	0.069	0.632	0.667	0.655	0.736



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	Back side	1.129	0.109	0.224	0.084	1.238	1.353	1.213	1.437
N66	Front side	0.465	0.046	0.081	0.069	0.511	0.546	0.534	0.615
	Back side	0.280	0.109	0.224	0.084	0.389	0.504	0.364	0.588
N71	Front side	0.264	0.046	0.081	0.069	0.310	0.345	0.333	0.414
	Back side	0.441	0.109	0.224	0.084	0.550	0.665	0.525	0.749
N77(38)	Front side	0.575	0.046	0.081	0.069	0.621	0.656	0.644	0.725
	Back side	1.083	0.109	0.224	0.084	1.192	1.307	1.167	1.391
5A_n2A	Front side	0.799	0.046	0.081	0.069	0.845	0.880	0.868	0.949
	Back side	0.920	0.109	0.224	0.084	1.029	1.144	1.004	1.228
12A_n2A	Front side	0.618	0.046	0.081	0.069	0.664	0.699	0.687	0.768
	Back side	0.732	0.109	0.224	0.084	0.841	0.956	0.816	1.040
13A_n2A	Front side	0.741	0.046	0.081	0.069	0.787	0.822	0.810	0.891
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
71A_n2A	Front side	0.429	0.046	0.081	0.069	0.475	0.510	0.498	0.579
	Back side	0.542	0.109	0.224	0.084	0.651	0.766	0.626	0.850
2A_n5A	Front side	0.803	0.046	0.081	0.069	0.849	0.884	0.872	0.953
	Back side	1.210	0.109	0.224	0.084	1.319	1.434	1.294	1.518
7A_n5A	Front side	0.722	0.046	0.081	0.069	0.768	0.803	0.791	0.872
	Back side	1.026	0.109	0.224	0.084	1.135	1.250	1.110	1.334
66A_n5A	Front side	0.669	0.046	0.081	0.069	0.715	0.750	0.738	0.819
	Back side	0.926	0.109	0.224	0.084	1.035	1.150	1.010	1.234
2A_n41A	Front side	0.540	0.046	0.081	0.069	0.586	0.621	0.609	0.690
	Back side	1.041	0.109	0.224	0.084	1.150	1.265	1.125	1.349
4A_n41A	Front side	0.400	0.046	0.081	0.069	0.446	0.481	0.469	0.550
	Back side	0.829	0.109	0.224	0.084	0.938	1.053	0.913	1.137
12A_n41A	Front side	0.671	0.046	0.081	0.069	0.717	0.752	0.740	0.821
	Back side	1.069	0.109	0.224	0.084	1.178	1.293	1.153	1.377
25A_n41A	Front side	0.540	0.046	0.081	0.069	0.586	0.621	0.609	0.690
	Back side	1.041	0.109	0.224	0.084	1.150	1.265	1.125	1.349
66A_n41A	Front side	0.400	0.046	0.081	0.069	0.446	0.481	0.469	0.550
	Back side	0.829	0.109	0.224	0.084	0.938	1.053	0.913	1.137
71A_n41A	Front side	0.482	0.046	0.081	0.069	0.528	0.563	0.551	0.632
	Back side	0.879	0.109	0.224	0.084	0.988	1.103	0.963	1.187
2A_n66A	Front side	0.347	0.046	0.081	0.069	0.393	0.428	0.416	0.497
	Back side	0.695	0.109	0.224	0.084	0.804	0.919	0.779	1.003
5A_n66A	Front side	0.791	0.046	0.081	0.069	0.837	0.872	0.860	0.941
	Back side	0.832	0.109	0.224	0.084	0.941	1.056	0.916	1.140
7A_n66A	Front side	0.414	0.046	0.081	0.069	0.460	0.495	0.483	0.564
	Back side	0.437	0.109	0.224	0.084	0.546	0.661	0.521	0.745
12A_n66A	Front side	0.610	0.046	0.081	0.069	0.656	0.691	0.679	0.760
	Back side	0.644	0.109	0.224	0.084	0.753	0.868	0.728	0.952
13A_n66A	Front side	0.733	0.046	0.081	0.069	0.779	0.814	0.802	0.883
	Back side	0.769	0.109	0.224	0.084	0.878	0.993	0.853	1.077
71A_n66A	Front side	0.421	0.046	0.081	0.069	0.467	0.502	0.490	0.571
	Back side	0.454	0.109	0.224	0.084	0.563	0.678	0.538	0.762
2A_n71A	Front side	0.526	0.046	0.081	0.069	0.572	0.607	0.595	0.676
	Back side	0.922	0.109	0.224	0.084	1.031	1.146	1.006	1.230
7A_n71A	Front side	0.445	0.046	0.081	0.069	0.491	0.526	0.514	0.595
	Back side	0.738	0.109	0.224	0.084	0.847	0.962	0.822	1.046
66A_n71A	Front side	0.392	0.046	0.081	0.069	0.438	0.473	0.461	0.542



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	Back side	0.638	0.109	0.224	0.084	0.747	0.862	0.722	0.946
2A_n77A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
5A_n77A	Front side	0.846	0.046	0.081	0.069	0.892	0.927	0.915	0.996
	Back side	1.235	0.109	0.224	0.084	1.344	1.459	1.319	1.543
7A_n77A	Front side	0.469	0.046	0.081	0.069	0.515	0.550	0.538	0.619
	Back side	0.840	0.109	0.224	0.084	0.949	1.064	0.924	1.148
12A_n77A	Front side	0.665	0.046	0.081	0.069	0.711	0.746	0.734	0.815
	Back side	1.047	0.109	0.224	0.084	1.156	1.271	1.131	1.355
13A_n77A	Front side	0.788	0.046	0.081	0.069	0.834	0.869	0.857	0.938
	Back side	1.172	0.109	0.224	0.084	1.281	1.396	1.256	1.480
25A_n77A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
66A_n77A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
71A_n77A	Front side	0.476	0.046	0.081	0.069	0.522	0.557	0.545	0.626
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
2A_n78A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
4A_n78A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
5A_n78A	Front side	0.846	0.046	0.081	0.069	0.892	0.927	0.915	0.996
	Back side	1.235	0.109	0.224	0.084	1.344	1.459	1.319	1.543
7A_n78A	Front side	0.469	0.046	0.081	0.069	0.515	0.550	0.538	0.619
	Back side	0.840	0.109	0.224	0.084	0.949	1.064	0.924	1.148
12A_n78A	Front side	0.665	0.046	0.081	0.069	0.711	0.746	0.734	0.815
	Back side	1.047	0.109	0.224	0.084	1.156	1.271	1.131	1.355
13A_n78A	Front side	0.788	0.046	0.081	0.069	0.834	0.869	0.857	0.938
	Back side	1.172	0.109	0.224	0.084	1.281	1.396	1.256	1.480
25A_n78A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
66A_n78A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
71A_n78A	Front side	0.476	0.046	0.081	0.069	0.522	0.557	0.545	0.626
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
7A_n2A	Front side	0.341	0.046	0.081	0.069	0.387	0.422	0.410	0.491
	Back side	0.584	0.109	0.224	0.084	0.693	0.808	0.668	0.892
66A_n2A	Front side	0.347	0.046	0.081	0.069	0.393	0.428	0.416	0.497
	Back side	0.492	0.109	0.224	0.084	0.601	0.716	0.576	0.800
2A-7A	Front side	0.443	0.046	0.081	0.069	0.489	0.524	0.512	0.593
	Back side	0.778	0.109	0.224	0.084	0.887	1.002	0.862	1.086
4A-7A	Front side	0.309	0.046	0.081	0.069	0.355	0.390	0.378	0.459
	Back side	0.494	0.109	0.224	0.084	0.603	0.718	0.578	0.802
5A-7A	Front side	0.739	0.046	0.081	0.069	0.785	0.820	0.808	0.889
	Back side	0.989	0.109	0.224	0.084	1.098	1.213	1.073	1.297
4A-12A	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
4A-17A	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
7A-12A	Front side	0.558	0.046	0.081	0.069	0.604	0.639	0.627	0.708



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	Back side	0.801	0.109	0.224	0.084	0.910	1.025	0.885	1.109
7A-66A	Front side	0.309	0.046	0.081	0.069	0.355	0.390	0.378	0.459
	Back side	0.494	0.109	0.224	0.084	0.603	0.718	0.578	0.802
12A-66A	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
2A-2A_n66A	Front side	0.479	0.046	0.081	0.069	0.525	0.560	0.548	0.629
	Back side	0.616	0.109	0.224	0.084	0.725	0.840	0.700	0.924
7A-5A_n2A	Front side	0.422	0.046	0.081	0.069	0.468	0.503	0.491	0.572
	Back side	0.525	0.109	0.224	0.084	0.634	0.749	0.609	0.833
30A-12A_n66A	Front side	0.521	0.046	0.081	0.069	0.567	0.602	0.590	0.671
	Back side	0.536	0.109	0.224	0.084	0.645	0.760	0.620	0.844



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Sum_ULCA(Hotspot):

LTE Band ULCA	Exposure position	Band 1 Max SAR	Band 2 Max SAR	Inter-band CA Summed SAR
		1	2	1+2
2A-7A	Front side	0.199	0.262	0.461
	Back side	0.326	0.481	0.807
	Left side	0.252	0.000	0.252
	Right side	0.000	0.299	0.299
	Top side	0.050	0.138	0.188
	Bottom side	0.000	0.000	0.000
4A-7A	Front side	0.199	0.128	0.327
	Back side	0.326	0.197	0.523
	Left side	0.252	0.000	0.252
	Right side	0.000	0.122	0.122
	Top side	0.050	0.067	0.117
	Bottom side	0.000	0.000	0.000
5A-7A	Front side	0.199	0.558	0.757
	Back side	0.326	0.692	1.018
	Left side	0.252	0.230	0.482
	Right side	0.000	0.117	0.117
	Top side	0.050	0.580	0.630
	Bottom side	0.000	0.000	0.000
4A-12A	Front side	0.377	0.128	0.505
	Back side	0.504	0.197	0.701
	Left side	0.299	0.000	0.299
	Right side	0.139	0.122	0.261
	Top side	0.368	0.067	0.435
	Bottom side	0.000	0.000	0.000
4A-17A	Front side	0.377	0.128	0.505
	Back side	0.504	0.197	0.701
	Left side	0.299	0.000	0.299
	Right side	0.139	0.122	0.261
	Top side	0.368	0.067	0.435
	Bottom side	0.000	0.000	0.000
7A-12A	Front side	0.377	0.199	0.576
	Back side	0.504	0.326	0.830
	Left side	0.299	0.252	0.551
	Right side	0.139	0.000	0.139
	Top side	0.368	0.050	0.418
	Bottom side	0.000	0.000	0.000
7A-66A	Front side	0.128	0.199	0.327
	Back side	0.197	0.326	0.523
	Left side	0.000	0.252	0.252
	Right side	0.122	0.000	0.122



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12A-66A	Top side	0.067	0.050	0.117
	Bottom side	0.000	0.000	0.000
	Front side	0.128	0.377	0.505
	Back side	0.197	0.504	0.701
	Left side	0.000	0.299	0.299
	Right side	0.122	0.139	0.261
	Top side	0.067	0.368	0.435
	Bottom side	0.000	0.000	0.000

Sum_ENDC(Hotspot):

ENDC Standalone&Simultaneous				
LTE Band ULCA	Exposure position	LTE Max SAR	NR Max SAR	Summed SAR
		1	2	1+2
5A_n2A	Front side	0.558	0.241	0.799
	Back side	0.692	0.228	0.920
	Left side	0.230	0.000	0.230
	Right side	0.117	0.204	0.321
	Top side	0.580	0.146	0.726
	Bottom side	0.000	0.000	0.000
12A_n2A	Front side	0.377	0.241	0.618
	Back side	0.504	0.228	0.732
	Left side	0.299	0.000	0.299
	Right side	0.139	0.204	0.343
	Top side	0.368	0.146	0.514
	Bottom side	0.000	0.000	0.000
13A_n2A	Front side	0.500	0.241	0.741
	Back side	0.629	0.228	0.857
	Left side	0.350	0.000	0.350
	Right side	0.131	0.204	0.335
	Top side	0.523	0.146	0.669
	Bottom side	0.000	0.000	0.000
71A_n2A	Front side	0.188	0.241	0.429
	Back side	0.314	0.228	0.542
	Left side	0.312	0.000	0.312
	Right side	0.130	0.204	0.334
	Top side	0.305	0.146	0.451
	Bottom side	0.000	0.000	0.000
2A_n5A	Front side	0.262	0.541	0.803
	Back side	0.481	0.729	1.210
	Left side	0.000	0.417	0.417
	Right side	0.299	0.190	0.489
	Top side	0.138	0.693	0.831
	Bottom side	0.000	0.000	0.000



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7A_n5A	Front side	0.181	0.541	0.722
	Back side	0.297	0.729	1.026
	Left side	0.230	0.417	0.647
	Right side	0.000	0.190	0.190
	Top side	0.045	0.693	0.738
	Bottom side	0.000	0.000	0.000
66A_n5A	Front side	0.128	0.541	0.669
	Back side	0.197	0.729	0.926
	Left side	0.000	0.417	0.417
	Right side	0.122	0.190	0.312
	Top side	0.067	0.693	0.760
	Bottom side	0.000	0.000	0.000
2A_n41A	Front side	0.246	0.294	0.540
	Back side	0.476	0.565	1.041
	Left side	0.199	0.554	0.753
	Right side	0.212	0.000	0.212
	Top side	0.000	0.182	0.182
	Bottom side	0.459	0.000	0.459
4A_n41A	Front side	0.106	0.294	0.400
	Back side	0.264	0.565	0.829
	Left side	0.029	0.554	0.583
	Right side	0.032	0.000	0.032
	Top side	0.000	0.182	0.182
	Bottom side	0.348	0.000	0.348
12A_n41A	Front side	0.377	0.294	0.671
	Back side	0.504	0.565	1.069
	Left side	0.299	0.554	0.853
	Right side	0.139	0.000	0.139
	Top side	0.368	0.182	0.550
	Bottom side	0.000	0.000	0.000
25A_n41A	Front side	0.246	0.294	0.540
	Back side	0.476	0.565	1.041
	Left side	0.199	0.554	0.753
	Right side	0.212	0.000	0.212
	Top side	0.000	0.182	0.182
	Bottom side	0.459	0.000	0.459
66A_n41A	Front side	0.106	0.294	0.400
	Back side	0.264	0.565	0.829
	Left side	0.029	0.554	0.583
	Right side	0.032	0.000	0.032
	Top side	0.000	0.182	0.182
	Bottom side	0.348	0.000	0.348
71A_n41A	Front side	0.188	0.294	0.482
	Back side	0.314	0.565	0.879



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	Left side	0.312	0.554	0.866
	Right side	0.130	0.000	0.130
	Top side	0.305	0.182	0.487
	Bottom side	0.000	0.000	0.000
2A_n66A	Front side	0.262	0.085	0.347
	Back side	0.481	0.214	0.695
	Left side	0.000	0.058	0.058
	Right side	0.299	0.061	0.360
	Top side	0.138	0.000	0.138
	Bottom side	0.000	0.180	0.180
5A_n66A	Front side	0.558	0.233	0.791
	Back side	0.692	0.140	0.832
	Left side	0.230	0.000	0.230
	Right side	0.117	0.229	0.346
	Top side	0.580	0.202	0.782
	Bottom side	0.000	0.000	0.000
7A_n66A	Front side	0.181	0.233	0.414
	Back side	0.297	0.140	0.437
	Left side	0.230	0.000	0.230
	Right side	0.000	0.229	0.229
	Top side	0.045	0.202	0.247
	Bottom side	0.000	0.000	0.000
12A_n66A	Front side	0.377	0.233	0.610
	Back side	0.504	0.140	0.644
	Left side	0.299	0.000	0.299
	Right side	0.139	0.229	0.368
	Top side	0.368	0.202	0.570
	Bottom side	0.000	0.000	0.000
13A_n66A	Front side	0.500	0.233	0.733
	Back side	0.629	0.140	0.769
	Left side	0.350	0.000	0.350
	Right side	0.131	0.229	0.360
	Top side	0.523	0.202	0.725
	Bottom side	0.000	0.000	0.000
71A_n66A	Front side	0.188	0.233	0.421
	Back side	0.314	0.140	0.454
	Left side	0.312	0.000	0.312
	Right side	0.130	0.229	0.359
	Top side	0.305	0.202	0.507
	Bottom side	0.000	0.000	0.000
2A_n71A	Front side	0.262	0.264	0.526
	Back side	0.481	0.441	0.922
	Left side	0.000	0.360	0.360
	Right side	0.299	0.150	0.449



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SZSAR-TRF-01 Rev. A/2

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	Top side	0.138	0.345	0.483
	Bottom side	0.000	0.000	0.000
7A_n71A	Front side	0.181	0.264	0.445
	Back side	0.297	0.441	0.738
	Left side	0.230	0.360	0.590
	Right side	0.000	0.150	0.150
	Top side	0.045	0.345	0.390
	Bottom side	0.000	0.000	0.000
66A_n71A	Front side	0.128	0.264	0.392
	Back side	0.197	0.441	0.638
	Left side	0.000	0.360	0.360
	Right side	0.122	0.150	0.272
	Top side	0.067	0.345	0.412
	Bottom side	0.000	0.000	0.000
2A_n77A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
	Left side	0.199	0.000	0.199
	Right side	0.212	0.591	0.803
	Top side	0.000	0.062	0.062
	Bottom side	0.459	0.000	0.459
5A_n77A	Front side	0.558	0.288	0.846
	Back side	0.692	0.543	1.235
	Left side	0.230	0.000	0.230
	Right side	0.117	0.591	0.708
	Top side	0.580	0.062	0.642
	Bottom side	0.000	0.000	0.000
7A_n77A	Front side	0.181	0.288	0.469
	Back side	0.297	0.543	0.840
	Left side	0.230	0.000	0.230
	Right side	0.000	0.591	0.591
	Top side	0.045	0.062	0.107
	Bottom side	0.000	0.000	0.000
12A_n77A	Front side	0.377	0.288	0.665
	Back side	0.504	0.543	1.047
	Left side	0.299	0.000	0.299
	Right side	0.139	0.591	0.730
	Top side	0.368	0.062	0.430
	Bottom side	0.000	0.000	0.000
13A_n77A	Front side	0.500	0.288	0.788
	Back side	0.629	0.543	1.172
	Left side	0.350	0.000	0.350
	Right side	0.131	0.591	0.722
	Top side	0.523	0.062	0.585
	Bottom side	0.000	0.000	0.000



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25A_n77A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
	Left side	0.199	0.000	0.199
	Right side	0.212	0.591	0.803
	Top side	0.000	0.062	0.062
	Bottom side	0.459	0.000	0.459
66A_n77A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
	Left side	0.029	0.000	0.029
	Right side	0.032	0.591	0.623
	Top side	0.000	0.062	0.062
	Bottom side	0.348	0.000	0.348
71A_n77A	Front side	0.188	0.288	0.476
	Back side	0.314	0.543	0.857
	Left side	0.312	0.000	0.312
	Right side	0.130	0.591	0.721
	Top side	0.305	0.062	0.367
	Bottom side	0.000	0.000	0.000
2A_n78A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
	Left side	0.199	0.000	0.199
	Right side	0.212	0.591	0.803
	Top side	0.000	0.062	0.062
	Bottom side	0.459	0.000	0.459
4A_n78A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
	Left side	0.029	0.000	0.029
	Right side	0.032	0.591	0.623
	Top side	0.000	0.062	0.062
	Bottom side	0.348	0.000	0.348
5A_n78A	Front side	0.558	0.288	0.846
	Back side	0.692	0.543	1.235
	Left side	0.230	0.000	0.230
	Right side	0.117	0.591	0.708
	Top side	0.580	0.062	0.642
	Bottom side	0.000	0.000	0.000
7A_n78A	Front side	0.181	0.288	0.469
	Back side	0.297	0.543	0.840
	Left side	0.230	0.000	0.230
	Right side	0.000	0.591	0.591
	Top side	0.045	0.062	0.107
	Bottom side	0.000	0.000	0.000
12A_n78A	Front side	0.377	0.288	0.665
	Back side	0.504	0.543	1.047



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Shenzhen Branch (Technical Services) Laboratory

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	Left side	0.299	0.000	0.299
	Right side	0.139	0.591	0.730
	Top side	0.368	0.062	0.430
	Bottom side	0.000	0.000	0.000
13A_n78A	Front side	0.500	0.288	0.788
	Back side	0.629	0.543	1.172
	Left side	0.350	0.000	0.350
	Right side	0.131	0.591	0.722
	Top side	0.523	0.062	0.585
	Bottom side	0.000	0.000	0.000
25A_n78A	Front side	0.246	0.288	0.534
	Back side	0.476	0.543	1.019
	Left side	0.199	0.000	0.199
	Right side	0.212	0.591	0.803
	Top side	0.000	0.062	0.062
	Bottom side	0.459	0.000	0.459
66A_n78A	Front side	0.106	0.288	0.394
	Back side	0.264	0.543	0.807
	Left side	0.029	0.000	0.029
	Right side	0.032	0.591	0.623
	Top side	0.000	0.062	0.062
	Bottom side	0.348	0.000	0.348
71A_n78A	Front side	0.188	0.288	0.476
	Back side	0.314	0.543	0.857
	Left side	0.312	0.000	0.312
	Right side	0.130	0.591	0.721
	Top side	0.305	0.062	0.367
	Bottom side	0.000	0.000	0.000
7A_n2A	Front side	0.181	0.160	0.341
	Back side	0.297	0.287	0.584
	Left side	0.230	0.103	0.333
	Right side	0.000	0.112	0.112
	Top side	0.045	0.000	0.045
	Bottom side	0.000	0.017	0.017
66A_n2A	Front side	0.106	0.241	0.347
	Back side	0.264	0.228	0.492
	Left side	0.029	0.000	0.029
	Right side	0.032	0.204	0.236
	Top side	0.000	0.146	0.146
	Bottom side	0.348	0.000	0.348
2A-2A_n66A	Front side	0.246	0.233	0.479
	Back side	0.476	0.140	0.616
	Left side	0.199	0.000	0.199
	Right side	0.212	0.229	0.441



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	Top side	0.000	0.202	0.202
	Bottom side	0.459	0.000	0.459
7A-5A_n2A	Front side	0.181	0.241	0.422
	Back side	0.297	0.228	0.525
	Left side	0.230	0.000	0.230
	Right side	0.000	0.204	0.204
	Top side	0.045	0.146	0.191
	Bottom side	0.000	0.000	0.000
30A-12A_n66A	Front side	0.288	0.233	0.521
	Back side	0.396	0.140	0.536
	Left side	0.336	0.000	0.336
	Right side	0.000	0.229	0.229
	Top side	0.064	0.202	0.266
	Bottom side	0.000	0.000	0.000



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Sum_Hotspot:

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.767	0.046	0.081	0.069	0.813	0.848	0.836	0.917
	Back side	1.260	0.109	0.224	0.084	1.369	1.484	1.344	1.568
	Left side	0.591	0.015	0.020	0.020	0.606	0.611	0.611	0.631
	Right side	0.252	0.027	0.073	0.026	0.279	0.325	0.278	0.351
	Top side	1.313	0.053	0.234	0.015	1.366	1.547	1.328	1.562
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.801	0.109	0.224	0.084	0.910	1.025	0.885	1.109
	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	0.476	0.027	0.073	0.026	0.503	0.549	0.502	0.575
	Top side	0.349	0.053	0.234	0.015	0.402	0.583	0.364	0.598
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.518	0.046	0.081	0.069	0.564	0.599	0.587	0.668
	Back side	0.898	0.109	0.224	0.084	1.007	1.122	0.982	1.206
	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	0.585	0.027	0.073	0.026	0.612	0.658	0.611	0.684
	Top side	0.370	0.053	0.234	0.015	0.423	0.604	0.385	0.619
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.378	0.046	0.081	0.069	0.424	0.459	0.447	0.528
	Back side	0.703	0.109	0.224	0.084	0.812	0.927	0.787	1.011
	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	0.474	0.027	0.073	0.026	0.501	0.547	0.500	0.573
	Top side	0.269	0.053	0.234	0.015	0.322	0.503	0.284	0.518
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.396	0.046	0.081	0.069	0.442	0.477	0.465	0.546
	Back side	0.606	0.109	0.224	0.084	0.715	0.830	0.690	0.914
	Left side	0.288	0.015	0.020	0.020	0.303	0.308	0.308	0.328
	Right side	0.124	0.027	0.073	0.026	0.151	0.197	0.150	0.223
	Top side	0.595	0.053	0.234	0.015	0.648	0.829	0.610	0.844
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 5	Front side	0.869	0.046	0.081	0.069	0.915	0.950	0.938	1.019
	Back side	1.064	0.109	0.224	0.084	1.173	1.288	1.148	1.372
	Left side	0.364	0.015	0.020	0.020	0.379	0.384	0.384	0.404
	Right side	0.185	0.027	0.073	0.026	0.212	0.258	0.211	0.284
	Top side	0.919	0.053	0.234	0.015	0.972	1.153	0.934	1.168
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7	Front side	0.362	0.046	0.081	0.069	0.408	0.443	0.431	0.512
	Back side	0.594	0.109	0.224	0.084	0.703	0.818	0.678	0.902
	Left side	0.458	0.015	0.020	0.020	0.473	0.478	0.478	0.498
	Right side	0.000	0.027	0.073	0.026	0.027	0.073	0.026	0.099
	Top side	0.091	0.053	0.234	0.015	0.144	0.325	0.106	0.340
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 12(17)	Front side	0.377	0.046	0.081	0.069	0.423	0.458	0.446	0.527
	Back side	0.504	0.109	0.224	0.084	0.613	0.728	0.588	0.812



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	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.139	0.027	0.073	0.026	0.166	0.212	0.165	0.238
	Top side	0.368	0.053	0.234	0.015	0.421	0.602	0.383	0.617
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 13	Front side	0.792	0.046	0.081	0.069	0.838	0.873	0.861	0.942
	Back side	0.995	0.109	0.224	0.084	1.104	1.219	1.079	1.303
	Left side	0.555	0.015	0.020	0.020	0.570	0.575	0.575	0.595
	Right side	0.208	0.027	0.073	0.026	0.235	0.281	0.234	0.307
	Top side	0.802	0.053	0.234	0.015	0.855	1.036	0.817	1.051
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 25(2)	Front side	0.523	0.046	0.081	0.069	0.569	0.604	0.592	0.673
	Back side	0.960	0.109	0.224	0.084	1.069	1.184	1.044	1.268
	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.596	0.027	0.073	0.026	0.623	0.669	0.622	0.695
	Top side	0.275	0.053	0.234	0.015	0.328	0.509	0.290	0.524
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
LTE Band 26	Front side	0.578	0.046	0.081	0.069	0.624	0.659	0.647	0.728
	Back side	0.613	0.109	0.224	0.084	0.722	0.837	0.697	0.921
	Left side	0.327	0.015	0.020	0.020	0.342	0.347	0.347	0.367
	Right side	0.154	0.027	0.073	0.026	0.181	0.227	0.180	0.253
	Top side	0.643	0.053	0.234	0.015	0.696	0.877	0.658	0.892
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 30	Front side	0.288	0.046	0.081	0.069	0.334	0.369	0.357	0.438
	Back side	0.396	0.109	0.224	0.084	0.505	0.620	0.480	0.704
	Left side	0.336	0.015	0.020	0.020	0.351	0.356	0.356	0.376
	Right side	0.000	0.027	0.073	0.026	0.027	0.073	0.026	0.099
	Top side	0.064	0.053	0.234	0.015	0.117	0.298	0.079	0.313
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 41(38)	Front side	0.310	0.046	0.081	0.069	0.356	0.391	0.379	0.460
	Back side	0.584	0.109	0.224	0.084	0.693	0.808	0.668	0.892
	Left side	0.474	0.015	0.020	0.020	0.489	0.494	0.494	0.514
	Right side	0.000	0.027	0.073	0.026	0.027	0.073	0.026	0.099
	Top side	0.121	0.053	0.234	0.015	0.174	0.355	0.136	0.370
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 42	Front side	0.085	0.046	0.081	0.069	0.131	0.166	0.154	0.235
	Back side	0.234	0.109	0.224	0.084	0.343	0.458	0.318	0.542
	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	0.375	0.027	0.073	0.026	0.402	0.448	0.401	0.474
	Top side	0.121	0.053	0.234	0.015	0.174	0.355	0.136	0.370
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 66(4)	Front side	0.255	0.046	0.081	0.069	0.301	0.336	0.324	0.405
	Back side	0.392	0.109	0.224	0.084	0.501	0.616	0.476	0.700
	Left side	0.029	0.015	0.020	0.020	0.044	0.049	0.049	0.069
	Right side	0.244	0.027	0.073	0.026	0.271	0.317	0.270	0.343
	Top side	0.133	0.053	0.234	0.015	0.186	0.367	0.148	0.382
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
LTE Band 71	Front side	0.188	0.046	0.081	0.069	0.234	0.269	0.257	0.338
	Back side	0.314	0.109	0.224	0.084	0.423	0.538	0.398	0.622
	Left side	0.312	0.015	0.020	0.020	0.327	0.332	0.332	0.352
	Right side	0.130	0.027	0.073	0.026	0.157	0.203	0.156	0.229



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	Top side	0.305	0.053	0.234	0.015	0.358	0.539	0.320	0.554
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N2	Front side	0.160	0.046	0.081	0.069	0.206	0.241	0.229	0.310
	Back side	0.287	0.109	0.224	0.084	0.396	0.511	0.371	0.595
	Left side	0.103	0.015	0.020	0.020	0.118	0.123	0.123	0.143
	Right side	0.112	0.027	0.073	0.026	0.139	0.185	0.138	0.211
	Top side	0.000	0.053	0.234	0.015	0.053	0.234	0.015	0.249
	Bottom side	0.017	0.000	0.000	0.000	0.017	0.017	0.017	0.017
	Front side	0.541	0.046	0.081	0.069	0.587	0.622	0.610	0.691
	Back side	0.729	0.109	0.224	0.084	0.838	0.953	0.813	1.037
N5	Left side	0.417	0.015	0.020	0.020	0.432	0.437	0.437	0.457
	Right side	0.190	0.027	0.073	0.026	0.217	0.263	0.216	0.289
	Top side	0.693	0.053	0.234	0.015	0.746	0.927	0.708	0.942
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.554	0.046	0.081	0.069	0.600	0.635	0.623	0.704
	Back side	0.870	0.109	0.224	0.084	0.979	1.094	0.954	1.178
N7	Left side	0.706	0.015	0.020	0.020	0.721	0.726	0.726	0.746
	Right side	0.000	0.027	0.073	0.026	0.027	0.073	0.026	0.099
	Top side	0.175	0.053	0.234	0.015	0.228	0.409	0.190	0.424
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.480	0.046	0.081	0.069	0.526	0.561	0.549	0.630
	Back side	0.455	0.109	0.224	0.084	0.564	0.679	0.539	0.763
N25	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	0.406	0.027	0.073	0.026	0.433	0.479	0.432	0.505
	Top side	0.291	0.053	0.234	0.015	0.344	0.525	0.306	0.540
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.586	0.046	0.081	0.069	0.632	0.667	0.655	0.736
	Back side	1.129	0.109	0.224	0.084	1.238	1.353	1.213	1.437
N41(38)	Left side	1.106	0.015	0.020	0.020	1.121	1.126	1.126	1.146
	Right side	0.000	0.027	0.073	0.026	0.027	0.073	0.026	0.099
	Top side	0.364	0.053	0.234	0.015	0.417	0.598	0.379	0.613
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.465	0.046	0.081	0.069	0.511	0.546	0.534	0.615
	Back side	0.280	0.109	0.224	0.084	0.389	0.504	0.364	0.588
N66	Left side	0.058	0.015	0.020	0.020	0.073	0.078	0.078	0.098
	Right side	0.457	0.027	0.073	0.026	0.484	0.530	0.483	0.556
	Top side	0.402	0.053	0.234	0.015	0.455	0.636	0.417	0.651
	Bottom side	0.180	0.000	0.000	0.000	0.180	0.180	0.180	0.180
	Front side	0.264	0.046	0.081	0.069	0.310	0.345	0.333	0.414
	Back side	0.441	0.109	0.224	0.084	0.550	0.665	0.525	0.749
N71	Left side	0.360	0.015	0.020	0.020	0.375	0.380	0.380	0.400
	Right side	0.150	0.027	0.073	0.026	0.177	0.223	0.176	0.249
	Top side	0.345	0.053	0.234	0.015	0.398	0.579	0.360	0.594
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.575	0.046	0.081	0.069	0.621	0.656	0.644	0.725
	Back side	1.083	0.109	0.224	0.084	1.192	1.307	1.167	1.391
N77(38)	Left side	0.000	0.015	0.020	0.020	0.015	0.020	0.020	0.040
	Right side	1.179	0.027	0.073	0.026	1.206	1.252	1.205	1.278
	Top side	0.124	0.053	0.234	0.015	0.177	0.358	0.139	0.373
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.575	0.046	0.081	0.069	0.621	0.656	0.644	0.725
	Back side	1.083	0.109	0.224	0.084	1.192	1.307	1.167	1.391



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5A_n2A	Front side	0.799	0.046	0.081	0.069	0.845	0.880	0.868	0.949
	Back side	0.920	0.109	0.224	0.084	1.029	1.144	1.004	1.228
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.321	0.027	0.073	0.026	0.348	0.394	0.347	0.420
	Top side	0.726	0.053	0.234	0.015	0.779	0.960	0.741	0.975
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12A_n2A	Front side	0.618	0.046	0.081	0.069	0.664	0.699	0.687	0.768
	Back side	0.732	0.109	0.224	0.084	0.841	0.956	0.816	1.040
	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.343	0.027	0.073	0.026	0.370	0.416	0.369	0.442
	Top side	0.514	0.053	0.234	0.015	0.567	0.748	0.529	0.763
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13A_n2A	Front side	0.741	0.046	0.081	0.069	0.787	0.822	0.810	0.891
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
	Left side	0.350	0.015	0.020	0.020	0.365	0.370	0.370	0.390
	Right side	0.335	0.027	0.073	0.026	0.362	0.408	0.361	0.434
	Top side	0.669	0.053	0.234	0.015	0.722	0.903	0.684	0.918
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71A_n2A	Front side	0.429	0.046	0.081	0.069	0.475	0.510	0.498	0.579
	Back side	0.542	0.109	0.224	0.084	0.651	0.766	0.626	0.850
	Left side	0.312	0.015	0.020	0.020	0.327	0.332	0.332	0.352
	Right side	0.334	0.027	0.073	0.026	0.361	0.407	0.360	0.433
	Top side	0.451	0.053	0.234	0.015	0.504	0.685	0.466	0.700
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n5A	Front side	0.803	0.046	0.081	0.069	0.849	0.884	0.872	0.953
	Back side	1.210	0.109	0.224	0.084	1.319	1.434	1.294	1.518
	Left side	0.417	0.015	0.020	0.020	0.432	0.437	0.437	0.457
	Right side	0.489	0.027	0.073	0.026	0.516	0.562	0.515	0.588
	Top side	0.831	0.053	0.234	0.015	0.884	1.065	0.846	1.080
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n5A	Front side	0.722	0.046	0.081	0.069	0.768	0.803	0.791	0.872
	Back side	1.026	0.109	0.224	0.084	1.135	1.250	1.110	1.334
	Left side	0.647	0.015	0.020	0.020	0.662	0.667	0.667	0.687
	Right side	0.190	0.027	0.073	0.026	0.217	0.263	0.216	0.289
	Top side	0.738	0.053	0.234	0.015	0.791	0.972	0.753	0.987
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66A_n5A	Front side	0.669	0.046	0.081	0.069	0.715	0.750	0.738	0.819
	Back side	0.926	0.109	0.224	0.084	1.035	1.150	1.010	1.234
	Left side	0.417	0.015	0.020	0.020	0.432	0.437	0.437	0.457
	Right side	0.312	0.027	0.073	0.026	0.339	0.385	0.338	0.411
	Top side	0.760	0.053	0.234	0.015	0.813	0.994	0.775	1.009
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n41A	Front side	0.540	0.046	0.081	0.069	0.586	0.621	0.609	0.690
	Back side	1.041	0.109	0.224	0.084	1.150	1.265	1.125	1.349
	Left side	0.753	0.015	0.020	0.020	0.768	0.773	0.773	0.793
	Right side	0.212	0.027	0.073	0.026	0.239	0.285	0.238	0.311
	Top side	0.182	0.053	0.234	0.015	0.235	0.416	0.197	0.431
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
4A_n41A	Front side	0.400	0.046	0.081	0.069	0.446	0.481	0.469	0.550
	Back side	0.829	0.109	0.224	0.084	0.938	1.053	0.913	1.137



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	Left side	0.583	0.015	0.020	0.020	0.598	0.603	0.603	0.623
	Right side	0.032	0.027	0.073	0.026	0.059	0.105	0.058	0.131
	Top side	0.182	0.053	0.234	0.015	0.235	0.416	0.197	0.431
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
12A_n41A	Front side	0.671	0.046	0.081	0.069	0.717	0.752	0.740	0.821
	Back side	1.069	0.109	0.224	0.084	1.178	1.293	1.153	1.377
	Left side	0.853	0.015	0.020	0.020	0.868	0.873	0.873	0.893
	Right side	0.139	0.027	0.073	0.026	0.166	0.212	0.165	0.238
	Top side	0.550	0.053	0.234	0.015	0.603	0.784	0.565	0.799
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25A_n41A	Front side	0.540	0.046	0.081	0.069	0.586	0.621	0.609	0.690
	Back side	1.041	0.109	0.224	0.084	1.150	1.265	1.125	1.349
	Left side	0.753	0.015	0.020	0.020	0.768	0.773	0.773	0.793
	Right side	0.212	0.027	0.073	0.026	0.239	0.285	0.238	0.311
	Top side	0.182	0.053	0.234	0.015	0.235	0.416	0.197	0.431
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
66A_n41A	Front side	0.400	0.046	0.081	0.069	0.446	0.481	0.469	0.550
	Back side	0.829	0.109	0.224	0.084	0.938	1.053	0.913	1.137
	Left side	0.583	0.015	0.020	0.020	0.598	0.603	0.603	0.623
	Right side	0.032	0.027	0.073	0.026	0.059	0.105	0.058	0.131
	Top side	0.182	0.053	0.234	0.015	0.235	0.416	0.197	0.431
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
71A_n41A	Front side	0.482	0.046	0.081	0.069	0.528	0.563	0.551	0.632
	Back side	0.879	0.109	0.224	0.084	0.988	1.103	0.963	1.187
	Left side	0.866	0.015	0.020	0.020	0.881	0.886	0.886	0.906
	Right side	0.130	0.027	0.073	0.026	0.157	0.203	0.156	0.229
	Top side	0.487	0.053	0.234	0.015	0.540	0.721	0.502	0.736
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n66A	Front side	0.347	0.046	0.081	0.069	0.393	0.428	0.416	0.497
	Back side	0.695	0.109	0.224	0.084	0.804	0.919	0.779	1.003
	Left side	0.058	0.015	0.020	0.020	0.073	0.078	0.078	0.098
	Right side	0.360	0.027	0.073	0.026	0.387	0.433	0.386	0.459
	Top side	0.138	0.053	0.234	0.015	0.191	0.372	0.153	0.387
	Bottom side	0.180	0.000	0.000	0.000	0.180	0.180	0.180	0.180
5A_n66A	Front side	0.791	0.046	0.081	0.069	0.837	0.872	0.860	0.941
	Back side	0.832	0.109	0.224	0.084	0.941	1.056	0.916	1.140
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.346	0.027	0.073	0.026	0.373	0.419	0.372	0.445
	Top side	0.782	0.053	0.234	0.015	0.835	1.016	0.797	1.031
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n66A	Front side	0.414	0.046	0.081	0.069	0.460	0.495	0.483	0.564
	Back side	0.437	0.109	0.224	0.084	0.546	0.661	0.521	0.745
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.229	0.027	0.073	0.026	0.256	0.302	0.255	0.328
	Top side	0.247	0.053	0.234	0.015	0.300	0.481	0.262	0.496
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12A_n66A	Front side	0.610	0.046	0.081	0.069	0.656	0.691	0.679	0.760
	Back side	0.644	0.109	0.224	0.084	0.753	0.868	0.728	0.952
	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.368	0.027	0.073	0.026	0.395	0.441	0.394	0.467



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	Top side	0.570	0.053	0.234	0.015	0.623	0.804	0.585	0.819
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13A_n66A	Front side	0.733	0.046	0.081	0.069	0.779	0.814	0.802	0.883
	Back side	0.769	0.109	0.224	0.084	0.878	0.993	0.853	1.077
	Left side	0.350	0.015	0.020	0.020	0.365	0.370	0.370	0.390
	Right side	0.360	0.027	0.073	0.026	0.387	0.433	0.386	0.459
	Top side	0.725	0.053	0.234	0.015	0.778	0.959	0.740	0.974
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71A_n66A	Front side	0.421	0.046	0.081	0.069	0.467	0.502	0.490	0.571
	Back side	0.454	0.109	0.224	0.084	0.563	0.678	0.538	0.762
	Left side	0.312	0.015	0.020	0.020	0.327	0.332	0.332	0.352
	Right side	0.359	0.027	0.073	0.026	0.386	0.432	0.385	0.458
	Top side	0.507	0.053	0.234	0.015	0.560	0.741	0.522	0.756
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n71A	Front side	0.526	0.046	0.081	0.069	0.572	0.607	0.595	0.676
	Back side	0.922	0.109	0.224	0.084	1.031	1.146	1.006	1.230
	Left side	0.360	0.015	0.020	0.020	0.375	0.380	0.380	0.400
	Right side	0.449	0.027	0.073	0.026	0.476	0.522	0.475	0.548
	Top side	0.483	0.053	0.234	0.015	0.536	0.717	0.498	0.732
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n71A	Front side	0.445	0.046	0.081	0.069	0.491	0.526	0.514	0.595
	Back side	0.738	0.109	0.224	0.084	0.847	0.962	0.822	1.046
	Left side	0.590	0.015	0.020	0.020	0.605	0.610	0.610	0.630
	Right side	0.150	0.027	0.073	0.026	0.177	0.223	0.176	0.249
	Top side	0.390	0.053	0.234	0.015	0.443	0.624	0.405	0.639
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66A_n71A	Front side	0.392	0.046	0.081	0.069	0.438	0.473	0.461	0.542
	Back side	0.638	0.109	0.224	0.084	0.747	0.862	0.722	0.946
	Left side	0.360	0.015	0.020	0.020	0.375	0.380	0.380	0.400
	Right side	0.272	0.027	0.073	0.026	0.299	0.345	0.298	0.371
	Top side	0.412	0.053	0.234	0.015	0.465	0.646	0.427	0.661
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n77A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.803	0.027	0.073	0.026	0.830	0.876	0.829	0.902
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
5A_n77A	Front side	0.846	0.046	0.081	0.069	0.892	0.927	0.915	0.996
	Back side	1.235	0.109	0.224	0.084	1.344	1.459	1.319	1.543
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.708	0.027	0.073	0.026	0.735	0.781	0.734	0.807
	Top side	0.642	0.053	0.234	0.015	0.695	0.876	0.657	0.891
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n77A	Front side	0.469	0.046	0.081	0.069	0.515	0.550	0.538	0.619
	Back side	0.840	0.109	0.224	0.084	0.949	1.064	0.924	1.148
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.591	0.027	0.073	0.026	0.618	0.664	0.617	0.690
	Top side	0.107	0.053	0.234	0.015	0.160	0.341	0.122	0.356
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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12A_n77A	Front side	0.665	0.046	0.081	0.069	0.711	0.746	0.734	0.815
	Back side	1.047	0.109	0.224	0.084	1.156	1.271	1.131	1.355
	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.730	0.027	0.073	0.026	0.757	0.803	0.756	0.829
	Top side	0.430	0.053	0.234	0.015	0.483	0.664	0.445	0.679
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13A_n77A	Front side	0.788	0.046	0.081	0.069	0.834	0.869	0.857	0.938
	Back side	1.172	0.109	0.224	0.084	1.281	1.396	1.256	1.480
	Left side	0.350	0.015	0.020	0.020	0.365	0.370	0.370	0.390
	Right side	0.722	0.027	0.073	0.026	0.749	0.795	0.748	0.821
	Top side	0.585	0.053	0.234	0.015	0.638	0.819	0.600	0.834
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25A_n77A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.803	0.027	0.073	0.026	0.830	0.876	0.829	0.902
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
66A_n77A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
	Left side	0.029	0.015	0.020	0.020	0.044	0.049	0.049	0.069
	Right side	0.623	0.027	0.073	0.026	0.650	0.696	0.649	0.722
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
71A_n77A	Front side	0.476	0.046	0.081	0.069	0.522	0.557	0.545	0.626
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
	Left side	0.312	0.015	0.020	0.020	0.327	0.332	0.332	0.352
	Right side	0.721	0.027	0.073	0.026	0.748	0.794	0.747	0.820
	Top side	0.367	0.053	0.234	0.015	0.420	0.601	0.382	0.616
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n78A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.803	0.027	0.073	0.026	0.830	0.876	0.829	0.902
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
4A_n78A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
	Left side	0.029	0.015	0.020	0.020	0.044	0.049	0.049	0.069
	Right side	0.623	0.027	0.073	0.026	0.650	0.696	0.649	0.722
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
5A_n78A	Front side	0.846	0.046	0.081	0.069	0.892	0.927	0.915	0.996
	Back side	1.235	0.109	0.224	0.084	1.344	1.459	1.319	1.543
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.708	0.027	0.073	0.026	0.735	0.781	0.734	0.807
	Top side	0.642	0.053	0.234	0.015	0.695	0.876	0.657	0.891
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n78A	Front side	0.469	0.046	0.081	0.069	0.515	0.550	0.538	0.619
	Back side	0.840	0.109	0.224	0.084	0.949	1.064	0.924	1.148



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	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.591	0.027	0.073	0.026	0.618	0.664	0.617	0.690
	Top side	0.107	0.053	0.234	0.015	0.160	0.341	0.122	0.356
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12A_n78A	Front side	0.665	0.046	0.081	0.069	0.711	0.746	0.734	0.815
	Back side	1.047	0.109	0.224	0.084	1.156	1.271	1.131	1.355
	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.730	0.027	0.073	0.026	0.757	0.803	0.756	0.829
	Top side	0.430	0.053	0.234	0.015	0.483	0.664	0.445	0.679
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13A_n78A	Front side	0.788	0.046	0.081	0.069	0.834	0.869	0.857	0.938
	Back side	1.172	0.109	0.224	0.084	1.281	1.396	1.256	1.480
	Left side	0.350	0.015	0.020	0.020	0.365	0.370	0.370	0.390
	Right side	0.722	0.027	0.073	0.026	0.749	0.795	0.748	0.821
	Top side	0.585	0.053	0.234	0.015	0.638	0.819	0.600	0.834
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25A_n78A	Front side	0.534	0.046	0.081	0.069	0.580	0.615	0.603	0.684
	Back side	1.019	0.109	0.224	0.084	1.128	1.243	1.103	1.327
	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.803	0.027	0.073	0.026	0.830	0.876	0.829	0.902
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
66A_n78A	Front side	0.394	0.046	0.081	0.069	0.440	0.475	0.463	0.544
	Back side	0.807	0.109	0.224	0.084	0.916	1.031	0.891	1.115
	Left side	0.029	0.015	0.020	0.020	0.044	0.049	0.049	0.069
	Right side	0.623	0.027	0.073	0.026	0.650	0.696	0.649	0.722
	Top side	0.062	0.053	0.234	0.015	0.115	0.296	0.077	0.311
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
71A_n78A	Front side	0.476	0.046	0.081	0.069	0.522	0.557	0.545	0.626
	Back side	0.857	0.109	0.224	0.084	0.966	1.081	0.941	1.165
	Left side	0.312	0.015	0.020	0.020	0.327	0.332	0.332	0.352
	Right side	0.721	0.027	0.073	0.026	0.748	0.794	0.747	0.820
	Top side	0.367	0.053	0.234	0.015	0.420	0.601	0.382	0.616
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n2A	Front side	0.341	0.046	0.081	0.069	0.387	0.422	0.410	0.491
	Back side	0.584	0.109	0.224	0.084	0.693	0.808	0.668	0.892
	Left side	0.333	0.015	0.020	0.020	0.348	0.353	0.353	0.373
	Right side	0.112	0.027	0.073	0.026	0.139	0.185	0.138	0.211
	Top side	0.045	0.053	0.234	0.015	0.098	0.279	0.060	0.294
	Bottom side	0.017	0.000	0.000	0.000	0.017	0.017	0.017	0.017
66A_n2A	Front side	0.347	0.046	0.081	0.069	0.393	0.428	0.416	0.497
	Back side	0.492	0.109	0.224	0.084	0.601	0.716	0.576	0.800
	Left side	0.029	0.015	0.020	0.020	0.044	0.049	0.049	0.069
	Right side	0.236	0.027	0.073	0.026	0.263	0.309	0.262	0.335
	Top side	0.146	0.053	0.234	0.015	0.199	0.380	0.161	0.395
	Bottom side	0.348	0.000	0.000	0.000	0.348	0.348	0.348	0.348
2A-7A	Front side	0.443	0.046	0.081	0.069	0.489	0.524	0.512	0.593
	Back side	0.778	0.109	0.224	0.084	0.887	1.002	0.862	1.086
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.299	0.027	0.073	0.026	0.326	0.372	0.325	0.398



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	Top side	0.183	0.053	0.234	0.015	0.236	0.417	0.198	0.432
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4A-7A	Front side	0.309	0.046	0.081	0.069	0.355	0.390	0.378	0.459
	Back side	0.494	0.109	0.224	0.084	0.603	0.718	0.578	0.802
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.122	0.027	0.073	0.026	0.149	0.195	0.148	0.221
	Top side	0.112	0.053	0.234	0.015	0.165	0.346	0.127	0.361
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.739	0.046	0.081	0.069	0.785	0.820	0.808	0.889
	Back side	0.989	0.109	0.224	0.084	1.098	1.213	1.073	1.297
5A-7A	Left side	0.460	0.015	0.020	0.020	0.475	0.480	0.480	0.500
	Right side	0.117	0.027	0.073	0.026	0.144	0.190	0.143	0.216
	Top side	0.625	0.053	0.234	0.015	0.678	0.859	0.640	0.874
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
4A-12A	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.261	0.027	0.073	0.026	0.288	0.334	0.287	0.360
	Top side	0.435	0.053	0.234	0.015	0.488	0.669	0.450	0.684
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
4A-17A	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.261	0.027	0.073	0.026	0.288	0.334	0.287	0.360
	Top side	0.435	0.053	0.234	0.015	0.488	0.669	0.450	0.684
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.558	0.046	0.081	0.069	0.604	0.639	0.627	0.708
	Back side	0.801	0.109	0.224	0.084	0.910	1.025	0.885	1.109
7A-12A	Left side	0.529	0.015	0.020	0.020	0.544	0.549	0.549	0.569
	Right side	0.139	0.027	0.073	0.026	0.166	0.212	0.165	0.238
	Top side	0.413	0.053	0.234	0.015	0.466	0.647	0.428	0.662
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.309	0.046	0.081	0.069	0.355	0.390	0.378	0.459
	Back side	0.494	0.109	0.224	0.084	0.603	0.718	0.578	0.802
7A-66A	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.122	0.027	0.073	0.026	0.149	0.195	0.148	0.221
	Top side	0.112	0.053	0.234	0.015	0.165	0.346	0.127	0.361
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.505	0.046	0.081	0.069	0.551	0.586	0.574	0.655
	Back side	0.701	0.109	0.224	0.084	0.810	0.925	0.785	1.009
12A-66A	Left side	0.299	0.015	0.020	0.020	0.314	0.319	0.319	0.339
	Right side	0.261	0.027	0.073	0.026	0.288	0.334	0.287	0.360
	Top side	0.435	0.053	0.234	0.015	0.488	0.669	0.450	0.684
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.479	0.046	0.081	0.069	0.525	0.560	0.548	0.629
	Back side	0.616	0.109	0.224	0.084	0.725	0.840	0.700	0.924
2A-2A_n66A	Left side	0.199	0.015	0.020	0.020	0.214	0.219	0.219	0.239
	Right side	0.441	0.027	0.073	0.026	0.468	0.514	0.467	0.540
	Top side	0.202	0.053	0.234	0.015	0.255	0.436	0.217	0.451
	Bottom side	0.459	0.000	0.000	0.000	0.459	0.459	0.459	0.459
	Front side	0.479	0.046	0.081	0.069	0.525	0.560	0.548	0.629
	Back side	0.616	0.109	0.224	0.084	0.725	0.840	0.700	0.924



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7A-5A_n2A	Front side	0.422	0.046	0.081	0.069	0.468	0.503	0.491	0.572
	Back side	0.525	0.109	0.224	0.084	0.634	0.749	0.609	0.833
	Left side	0.230	0.015	0.020	0.020	0.245	0.250	0.250	0.270
	Right side	0.204	0.027	0.073	0.026	0.231	0.277	0.230	0.303
	Top side	0.191	0.053	0.234	0.015	0.244	0.425	0.206	0.440
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30A-12A_n66A	Front side	0.521	0.046	0.081	0.069	0.567	0.602	0.590	0.671
	Back side	0.536	0.109	0.224	0.084	0.645	0.760	0.620	0.844
	Left side	0.336	0.015	0.020	0.020	0.351	0.356	0.356	0.376
	Right side	0.229	0.027	0.073	0.026	0.256	0.302	0.255	0.328
	Top side	0.266	0.053	0.234	0.015	0.319	0.500	0.281	0.515
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Sum_0mm:

Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.823	0.000	0.319	0.000	0.823	1.142	0.823	1.142
	Back side	1.429	0.000	0.239	0.000	1.429	1.668	1.429	1.668
	Left side	0.000	0.000	0.014	0.000	0.000	0.014	0.000	0.014
	Right side	0.000	0.000	0.119	0.000	0.000	0.119	0.000	0.119
	Top side	0.000	0.000	0.431	0.000	0.000	0.431	0.000	0.431
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Software Reference		cDASY8 V16.4.0.5005				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-026	NCR	NCR
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2025/08/15	2026/08/14
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2025/11/11	2026/11/10
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2025/08/26	2026/08/25
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2025/10/14	2026/10/13
☒	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	D1950V3	SZ-WSR-M-037	2025/10/15	2028/10/14
☒	Validation Kits	SPEAG	D2300V2	SZ-WSR-M-038	2025/6/19	2028/6/18
☒	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-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
☒	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	TP3001	SZ-WSR-M-014	2025/05/19	2026/05/18



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		Instrument				
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2025/05/19	2026/05/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2025/05/16	2026/05/15
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	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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