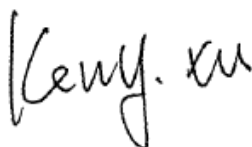


SAR TEST REPORT

Application No.: SZCR2509003833WM
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.: T807E
Trade Mark: TCL
FCC ID: 2ACCJH196
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-09-13
Date of Test: 2025-09-16 to 2025-10-28
Date of Issue: 2025-11-03

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

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



Keny Xu
EMC Laboratory Manager



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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2025-11-03		Original

Authorized for issue
by:

Calvin Weng

Calvin Weng/Project Engineer

Roman Pan

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	0.55	0.88	1.32	2.75
GSM1900	0.93	0.31	0.57	/
WCDMA Band II	1.36	0.33	0.95	/
WCDMA Band IV	0.98	0.40	0.76	/
WCDMA Band V	0.33	0.48	0.79	/
LTE Band 7	0.47	0.37	0.67	/
LTE Band 12/17	0.21	0.29	0.36	/
LTE Band 13	0.38	<0.10	0.61	/
LTE Band 25/2	0.94	0.24	0.73	/
LTE Band 26/5	0.29	0.45	0.65	/
LTE Band 41/38	1.38	0.29	0.91	/
LTE Band 42	1.05	0.22	1.00	/
LTE Band 48	0.93	0.12	0.44	/
LTE Band 66/4	1.32	0.44	0.90	/
NR Band n2	0.92	0.37	0.65	/
NR Band n5	0.29	0.40	0.62	/
NR Band n7	0.69	0.48	0.87	/
NR Band n12	0.21	0.35	0.41	/
NR Band n41/38	0.68	0.32	0.72	/
NR Band n48	0.79	0.21	0.83	/
NR Band n66	1.38	0.33	0.65	/
NR Band n78	1.05	0.49	1.24	2.88
WI-FI (2.4GHz)	0.57	0.30	0.61	/
WI-FI (5GHz)	0.78	0.44	0.84	2.29



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WI-FI 6E	<0.10	0.20	/	0.11
BT	0.17	<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	1.54	1.59	3.30
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Frequency Band	Maximum Reported PD(W/m ²)
WIFI 6E	8.99
PD Limit	10



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1 General Information

1.1 General Description of EUT

Product Name:	GSM/UMTS/LTE/NR Mobile phone		
Model No.:	T807E		
Trade Mark:	TCL		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	359921290002470, 359921290002363, 359921290202054, 359921290202039, 359921290202153, 359921290202211, 359921290202179.		
Hardware Version:	03		
Software Version:	AMS4		
Antenna Type:	Embedded		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM(QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI: DSSS,OFDM,OFDMA; BT: GFSK, $\pi/4$ DQPSK,8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	



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	WCDMA Band V	824~849
	LTE Band 2	1850 ~1910
	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 13	777~787
	LTE Band 17	704-716
	LTE Band 25	1850~1915
	LTE Band 26	814~849
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 42	3400~3600
	LTE Band 66	1710~1780
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n12	699~716
	NR Band n38	2570~2620
	NR Band n41	2496~2690
	NR Band n48	3550~3700
	NR Band n66	1710~1780
	NR Band n78	3450~3550
		3700~3800
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	WIFI 6E	5925~6425
		6425~6525
		6525~6875
		6875~7125
	BT	2402~2480



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	NFC	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information:	Model:	TLp050B7
	Normal Voltage:	3.91V
	Rated capacity:	5000mAh
	Manufacturer:	Donguan Veken Battery Co, LTD
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.		



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures(Frequency range of 4 MHz to 10 GHz)
IEC/IEEE 63195-1:2022	Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) – Part 1: Measurement procedure
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

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.)

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: 1.0 mW/cm² is equal to 10 W/m²

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 Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.



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SZSAR-TRF-01 Rev. A/1

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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.

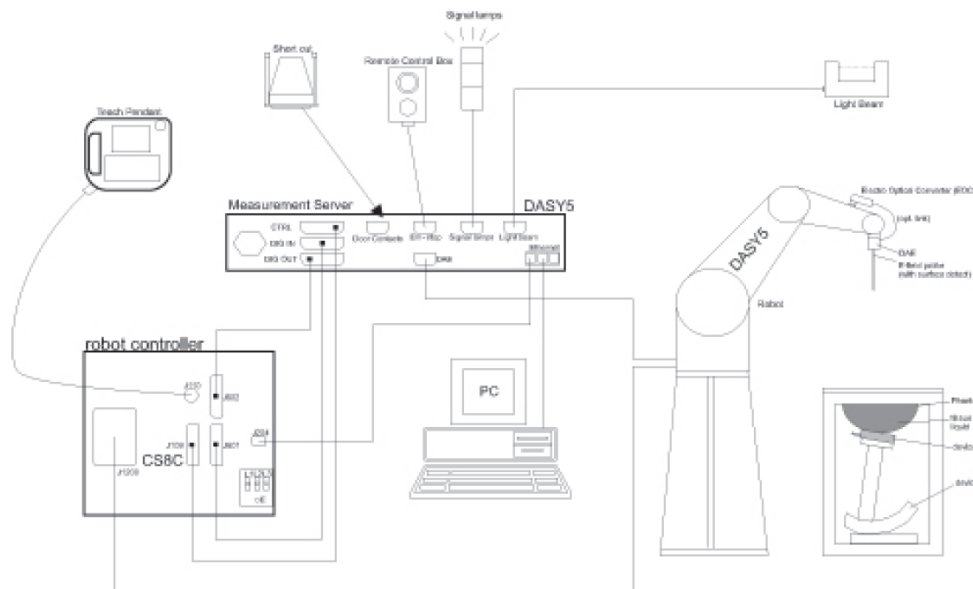
The DASY system for performing compliance tests consists of the following items:

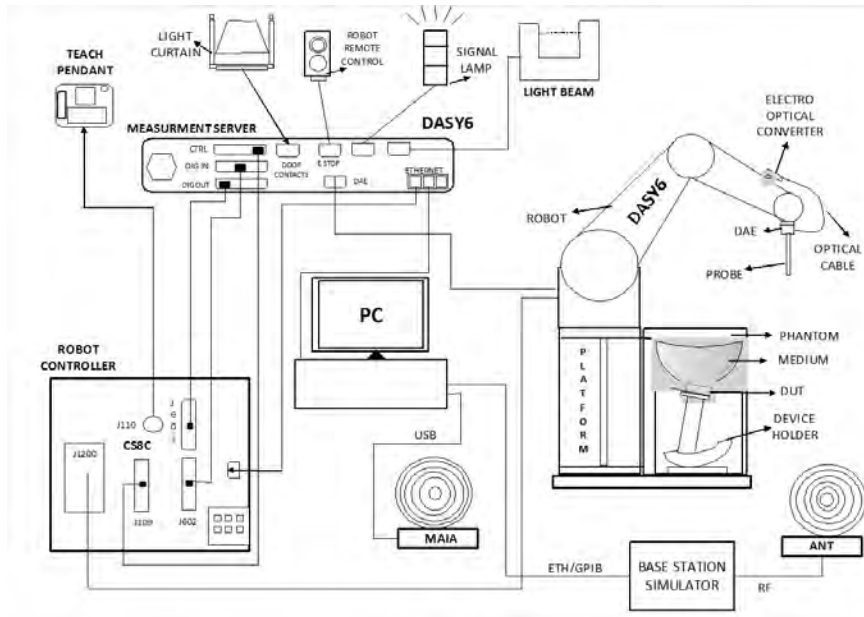
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

- 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.

3.2 Isotropic E-field Probe EX3DV4

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

3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

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

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

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

3.5 ELI Phantom

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

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

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

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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

Step 4: Power reference measurement (drift)

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

3.7.2 Data storage

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

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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



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

H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

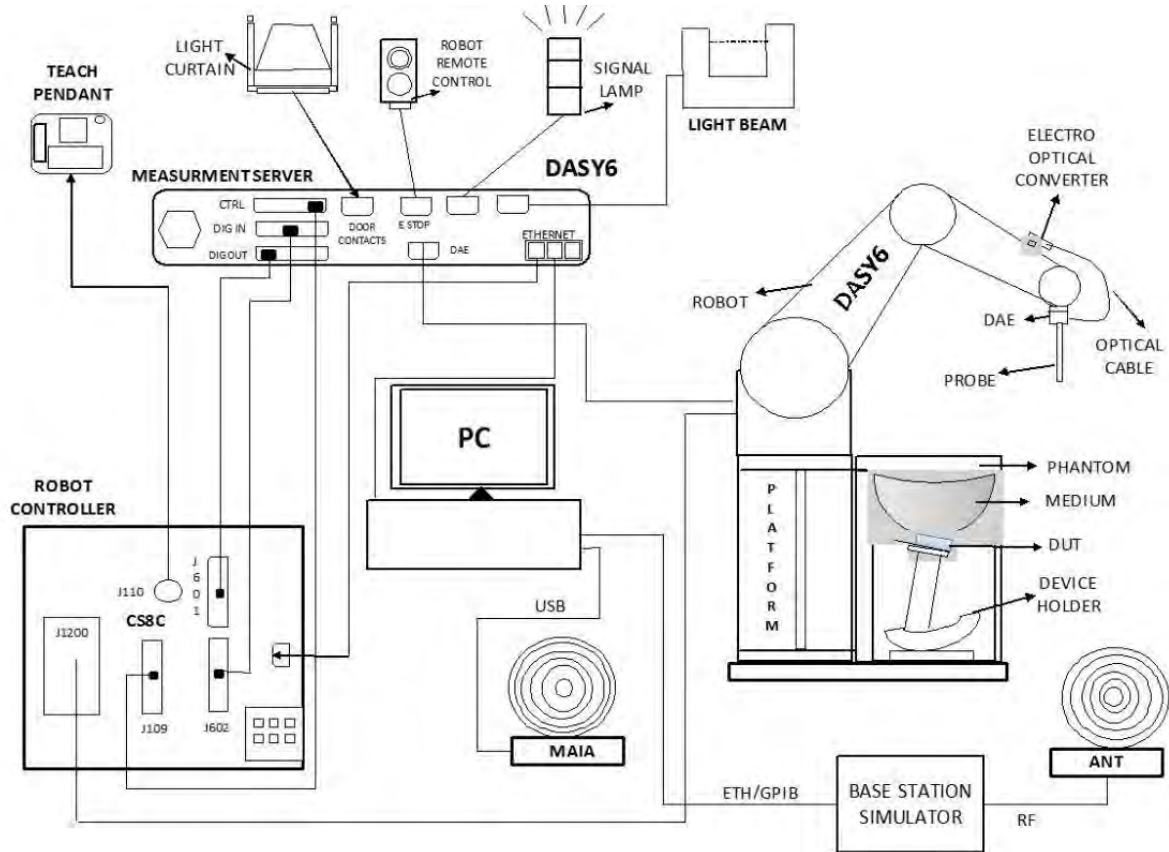
E_{tot} = total electric field strength in V/m

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



4 Power density measurement system

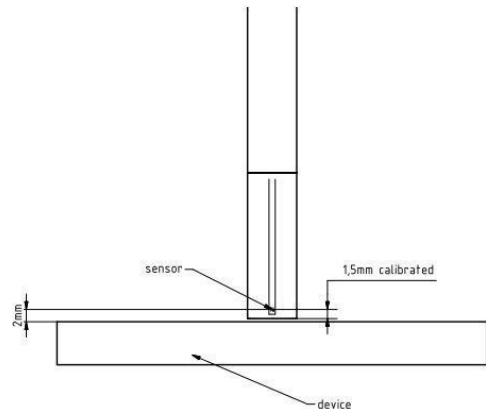
Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



Measurement System Configuration

4.1 EUmmWaVe probe

Frequency	750 MHz – 110 GHz
Probe Overall Length	320 mm
Probe Body Diameter	8.0 mm
Tip Length	23.0 mm
Tip Diameter	8.0 mm
Probe's two dipoles length	0.9 mm – Diode loaded
Dynamic Range	< 20 V/m - 10000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm
Distance between diode sensors and probe's tip	1.5 mm
Minimum Mechanical separation between probe tip and a Surface	0.5 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space) Power density, H-field and far-field analysis using total field reconstruction.
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



The EUmmWaVe probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consists of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

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.



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4.2 SAR measurement uncertainty

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The expanded uncertainty (95% CONFIDENCE INTERVAL) is 28.50%.

IEC/IEEE 62209-1528:2020 Input quantity X_i (source of uncertainty)	Unc. ($\pm$)	Prob. Dist. PDF _i	Unc. $a(x_i)$	C_i (1g)	C_i (10g)	U_i (1g) (%)	U_i (10g) (%)
Probe calibration	18.6	N ($k = 2$)	2	1	1	9.3	9.3
Probe calibration drift	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
Probe linearity and detection limit	0.6	R	$\sqrt{3}$	1	1	0.3	0.3
Broadband signal	0.5	R	$\sqrt{3}$	1	1	0.3	0.3
Probe isotropy	2.6	R	$\sqrt{3}$	1	1	1.5	1.5
Other probe and data acquisition errors	0.6	N	1	1	1	0.6	0.6
RF ambient and noise	3.0	R	$\sqrt{3}$	1	1	1.7	1.7
Probe positioning errors	0.5	N	1	0.33	0.33	0.2	0.2
Data processing errors	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Measurement of phantom conductivity(σ)	2.5	N	1	0.78	0.71	2.0	1.8
Temperature effects (medium)	2.7	R	$\sqrt{3}$	0.78	0.71	1.2	1.1
Shell permittivity	14.0	R	$\sqrt{3}$	0.5	0.5	4.0	4.0
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0
Repeatability of positioning the DUT or source against the phantom	2.9	N	1	1	1	2.9	2.9
Device holder effects	3.6	N	1	1	1	3.6	3.6
Effect of operating mode on probe sensitivity	2.4	R	$\sqrt{3}$	1	1	1.4	1.4
Time-average SAR	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Combined uncertainty			\			14.25	14.15
Expanded uncertainty and effective degrees of freedom ($k = 2$)			\			28.50	28.30

4.3 PD measurement uncertainty

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multiplying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

Standard Uncertainty for Assumed Distribution

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. The judgment of conformity in thereport is based on the measurement results excluding the measurement uncertainty.



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a	b	c	d	e	f=b*e/d	g
Error Description	Uncertainty Value (±dB)	Probability	Div.	Ci	Standard Uncertainty (±dB)	Vi (Veff)
Probe Calibration	0.49	N	1	1	0.49	∞
Probe correction	0.00	R	1.732	1	0.00	∞
Frequency response (BW ≤1 GHz)	0.20	R	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	1.732	1	0.00	∞
Isotropy	0.50	R	1.732	1	0.29	∞
Linearity	0.20	R	1.732	1	0.12	∞
Probe scattering	0.00	R	1.732	1	0.00	∞
Probe positioning offset	0.30	R	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	1.732	1	0.00	∞
Field impedance dependance	0.00	R	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	1.732	1	0.02	∞
Measurement area truncation	0.00	R	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.732	1	0.00	∞
Field reconstruction	2.00	R	1.732	1	1.15	∞
Forward transformation	0.00	R	1.732	1	0.00	∞
Power density scaling	0.00	R	1.732	1	0.00	∞
Spatial averaging	0.10	R	1.732	1	0.06	∞
System detection limit	0.04	R	1.732	1	0.02	∞
Probe coupling with DUT	0.00	R	1.732	1	0.00	∞
Modulation response	0.40	R	1.732	1	0.23	∞
Integration time	0.00	R	1.732	1	0.00	∞
Response time	0.00	R	1.732	1	0.00	∞
Device holder influence	0.10	R	1.732	1	0.06	∞
DUT alignment	0.00	R	1.732	1	0.00	∞
RF ambient conditions	0.04	R	1.732	1	0.02	∞
Ambient reflections	0.04	R	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	1.732	1	0.00	∞
Drift of the DUT		R	1.732	1	0.00	∞
Combined Std. Uncertainty					1.33	
Expanded STD Uncertainty (95%), K=2					2.67	



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5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

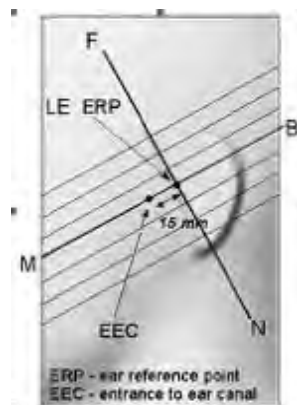


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

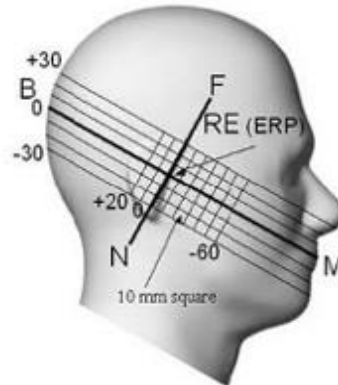
Note: The centre strip including the nose region has a different thickness tolerance.



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

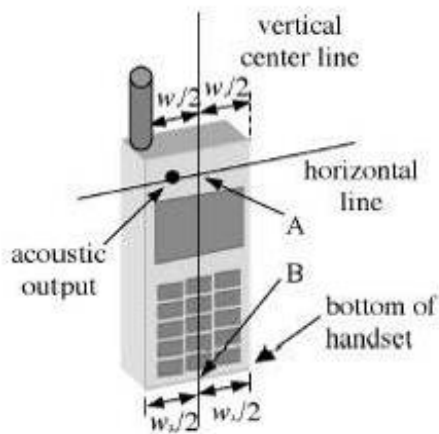


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

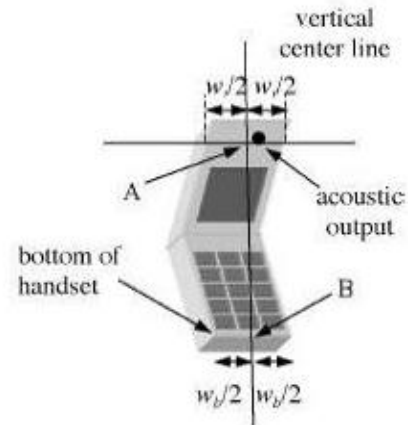


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



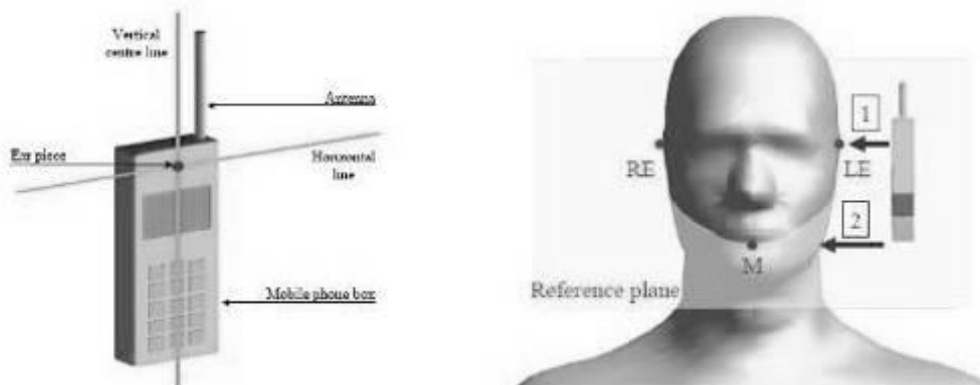
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

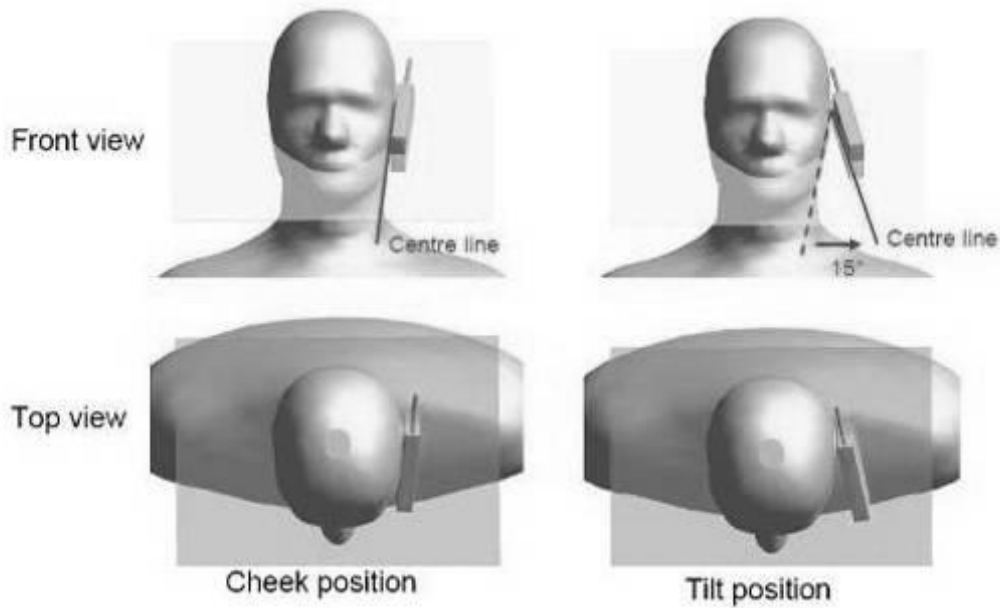
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

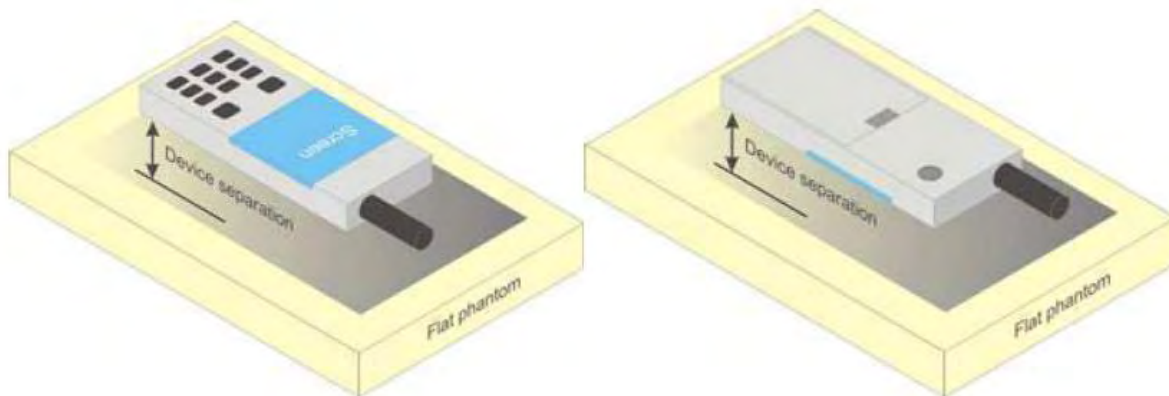
5.2.1 Body-worn exposure conditions

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 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

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

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

GSM850 SAR Test Record												
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 10mm) DSI3												
Front side	GPRS 2TS	251/848.8	1:4.15	0.555	0.399	0.03	32.88	33.50	1.153	0.640	22.2	Yes
Back side	GPRS 2TS	251/848.8	1:4.15	1.070	0.670	-0.08	32.88	33.50	1.153	1.234	22.2	No
Right side	GPRS 2TS	251/848.8	1:4.15	0.434	0.249	-0.02	32.88	33.50	1.153	0.501	22.2	Yes
Bottom side	GPRS 2TS	251/848.8	1:4.15	0.168	0.119	0.06	32.88	33.50	1.153	0.194	22.2	Yes
Back side	GPRS 2TS	128/824.2	1:4.15	0.835	0.515	-0.06	32.60	33.50	1.230	1.027	22.2	Yes
Back side	GPRS 2TS	190/836.6	1:4.15	1.100	0.675	-0.12	32.70	33.50	1.202	1.322	22.2	No
Back side-Repeated	GPRS 2TS	190/836.6	1:4.15	1.070	0.670	0.01	32.70	33.50	1.202	1.286	22.2	No

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N78(3450-3550) SAR Test Record													
Ant 4 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI3													
Front side	100	QPSK 1_271	633334/3500	100%	0.230	0.102	-0.06	18.43	19.50	1.279	0.294	22.2	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.866	0.363	-0.13	18.43	19.50	1.279	1.108	22.2	Yes
Left side	100	QPSK 1_271	633334/3500	100%	1.010	0.400	0.15	18.43	19.50	1.279	1.292	22.2	No
Top side	100	QPSK 1_271	633334/3500	100%	0.340	0.156	0.01	18.43	19.50	1.279	0.435	22.2	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI3													
Front side	100	QPSK 135_69	633334/3500	100%	0.257	0.116	-0.09	18.44	19.50	1.276	0.328	22.2	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.941	0.398	-0.06	18.44	19.50	1.276	1.201	22.2	No
Left side	100	QPSK 135_69	633334/3500	100%	1.090	0.433	0.01	18.44	19.50	1.276	1.391	22.2	No
Left side-Repeated	100	QPSK 135_69	633334/3500	100%	1.040	0.414	0.02	18.44	19.50	1.276	1.327	22.2	No
Top side	100	QPSK 135_69	633334/3500	100%	0.173	0.084	-0.01	18.44	19.50	1.276	0.221	22.2	Yes
Hotspot Test data (Separate 10mm 100%RB) DSI3													
Back side	100	QPSK 270_0	633334/3500	100%	0.694	0.323	-0.01	17.38	19.50	1.629	1.131	22.2	Yes
Left side	100	QPSK 270_0	633334/3500	100%	0.769	0.315	-0.02	17.38	19.50	1.629	1.253	22.2	No



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6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

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

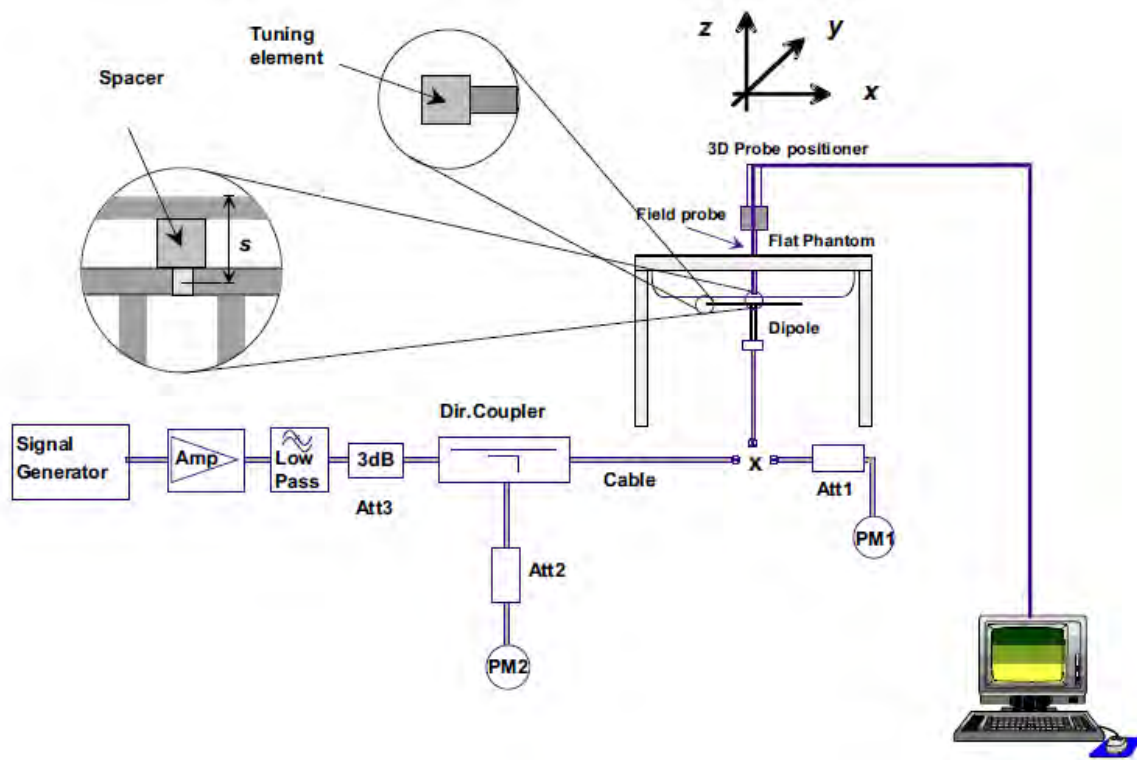
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

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	41.693	0.884	41.90	0.89	-0.49%	-0.67%	22.1	2025/9/22
835 Head	835	42.770	0.922	41.50	0.90	3.06%	2.44%	22.1	2025/9/16
835 Head	835	40.946	0.889	41.50	0.90	-1.33%	-1.22%	22.1	2025/9/24
1750 Head	1750	40.383	1.320	40.10	1.37	0.71%	-3.65%	22.1	2025/9/19
1750 Head	1750	39.012	1.310	40.10	1.37	-2.71%	-4.38%	22.1	2025/9/23
1900 Head	1900	40.596	1.375	40.00	1.40	1.49%	-1.79%	22.1	2025/9/17
1900 Head	1900	39.852	1.356	40.00	1.40	-0.37%	-3.14%	22.1	2025/9/18
2450 Head	2450	38.427	1.789	39.20	1.80	-1.97%	-0.61%	22.1	2025/10/10
2600 Head	2600	39.383	2.013	39.00	1.96	0.98%	2.70%	22.2	2025/9/16
2600 Head	2600	39.313	2.003	39.00	1.96	0.80%	2.19%	22.2	2025/9/17
2600 Head	2600	39.368	2.011	39.00	1.96	0.94%	2.60%	22.3	2025/9/18
2600 Head	2600	38.887	1.941	39.00	1.96	-0.29%	-0.97%	22.2	2025/9/19
3500 Head	3500	38.293	2.952	37.90	2.91	1.04%	1.44%	22.2	2025/10/17
3500 Head	3500	37.844	2.863	37.90	2.91	-0.15%	-1.62%	22.2	2025/10/20
3500 Head	3500	38.494	2.991	37.90	2.91	1.57%	2.78%	22.3	2025/10/24
3500 Head	3500	37.696	2.864	37.90	2.91	-0.54%	-1.58%	22.1	2025/10/27
3700 Head	3700	37.661	3.184	37.70	3.12	-0.10%	2.05%	22.2	2025/10/16
3700 Head	3700	37.129	3.054	37.70	3.12	-1.51%	-2.12%	22.2	2025/10/21
3700 Head	3700	36.980	3.055	37.70	3.12	-1.91%	-2.08%	22.3	2025/10/28
5250 Head	5250	36.548	4.816	35.90	4.71	1.81%	2.25%	22.2	2025/9/28
5600 Head	5600	35.680	5.205	35.50	5.07	0.51%	2.66%	22.1	2025/9/29
5750 Head	5750	35.500	5.401	35.40	5.22	0.28%	3.47%	22.2	2025/9/30
6500 Head	6500	34.000	6.190	34.50	6.07	-1.45%	1.98%	22.2	2025/10/22

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	2.01	1.34	8.04	5.36	8.42	5.49	-4.51%	-2.37%	22.1	2025/9/22
D835V2_Head	2.55	1.72	10.20	6.88	9.53	6.29	7.03%	9.38%	22.1	2025/9/16
D835V2_Head	2.49	1.65	9.96	6.60	9.53	6.29	4.51%	4.93%	22.1	2025/9/24
D1750V2_Head	8.42	4.59	33.68	18.36	36.20	19.10	-6.96%	-3.87%	22.1	2025/9/19
D1750V2_Head	9.21	4.98	36.84	19.92	36.20	19.10	1.77%	4.29%	22.1	2025/9/23
D1900V2_Head	10.20	5.54	40.80	22.16	39.50	20.60	3.29%	7.57%	22.1	2025/9/17
D1900V2_Head	9.43	5.12	37.72	20.48	39.50	20.60	-4.51%	-0.58%	22.1	2025/9/18
D2450V2_Head	13.50	6.57	54.00	26.28	52.20	24.30	3.45%	8.15%	22.1	2025/10/10
D2600V2_Head	13.70	6.28	54.80	25.12	55.30	24.70	-0.90%	1.70%	22.2	2025/9/16
D2600V2_Head	14.10	6.56	56.40	26.24	55.30	24.70	1.99%	6.23%	22.2	2025/9/17
D2600V2_Head	14.20	6.36	56.80	25.44	55.30	24.70	2.71%	3.00%	22.3	2025/9/18
D2600V2_Head	14.50	6.62	58.00	26.48	55.30	24.70	4.88%	7.21%	22.2	2025/9/19
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	6.75	2.62	67.50	26.20	65.80	25.00	2.58%	4.80%	22.2	2025/10/17
D3500V2_3.5GHz_Head	6.33	2.47	63.30	24.70	65.80	25.00	-3.80%	-1.20%	22.2	2025/10/20
D3500V2_3.5GHz_Head	6.84	2.65	68.40	26.50	65.80	25.00	3.95%	6.00%	22.3	2025/10/24
D3500V2_3.5GHz_Head	6.55	2.54	65.50	25.40	65.80	25.00	-0.46%	1.60%	22.1	2025/10/27
D3700V2_Head	7.07	2.68	70.70	26.80	67.30	24.70	5.05%	8.50%	22.2	2025/10/16
D3700V2_Head	6.40	2.43	64.00	24.30	67.30	24.70	-4.90%	-1.62%	22.2	2025/10/21
D3700V2_Head	6.29	2.46	62.90	24.60	67.30	24.70	-6.54%	-0.40%	22.3	2025/10/28
D5GHzV2_5.25G_Head	8.32	2.41	83.20	24.10	77.30	22.10	7.63%	9.05%	22.2	2025/9/28
D5GHzV2_5.6G_Head	8.27	2.35	82.70	23.50	81.30	23.10	1.72%	1.73%	22.1	2025/9/29
D5GHzV2_5.75G_Head	7.83	2.25	78.30	22.50	77.10	21.30	1.56%	5.63%	22.2	2025/9/30
D6500V2_Head	27.60	5.36	276.00	53.60	291.00	53.90	-5.15%	-0.56%	22.2	2025/10/22

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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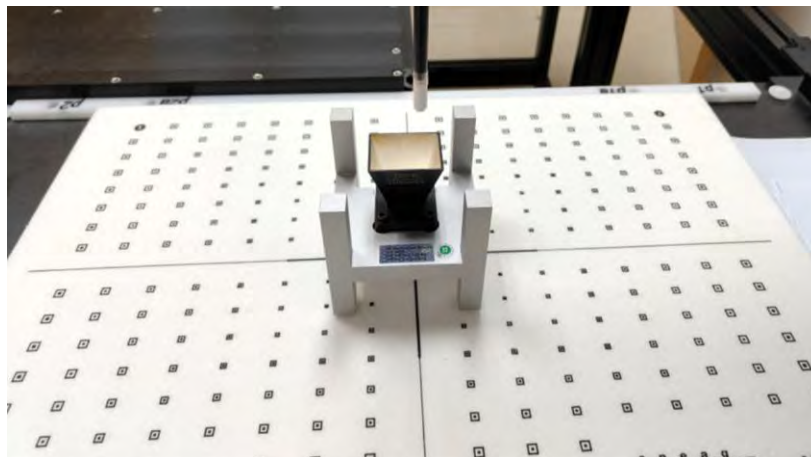
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7 PD System Check

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequent	Measured PD W/m ²	Target PD W/m ²	Circular Deviation (Within ± 0.66 dB)	Test Date
	4cm ²	4cm ²	4cm ²	
10G HZ Source	183.00	174	0.22	2025/10/23

Note: 1. Measured PD after normalized to Pard power with DASY Calibration Certificate in Appendix A.



8 Test Configuration

8.1 Operation Configurations

8.1.1 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).

8.1.2 WCDMA Test Configuration

1) Output Power Verification

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

2) Head SAR

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

3) Body SAR



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

4) HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

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

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

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

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



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

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

Table 4 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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

Table 5 : HSDPA UE category

b) HSUPA

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



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Sub-test ¹	$\beta_{\text{e}}^{\text{2}}$	$\beta_{\text{d}}^{\text{3}}$	β_{d} (SF) ⁴	$\beta_{\text{e}}/\beta_{\text{d}}^{\text{5}}$	$\beta_{\text{hz}}^{\text{6}}$	$\beta_{\text{ac}}^{\text{7}}$	$\beta_{\text{ed}}^{\text{8}}$	β_{e} (SF) ⁹	$\beta_{\text{ed}}^{\text{10}}$ (code) ¹¹	CM ¹² (dB) ¹³	MP ¹⁴ R ¹⁵ (dB) ¹⁶	AG ¹⁷ (4) ¹⁸ Inde ¹⁹ x ²⁰	E-TFC I ²¹
1 ²²	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ²³	11/15 ⁽³⁾	22/15 ²⁴	209/225 ²⁵	1039/225 ²⁶	4 ²⁷	1 ²⁸	1.0 ²⁹	0.0 ³⁰	20 ³¹	75 ³²
2 ³³	6/15 ³⁴	15/15 ³⁵	64 ³⁶	6/15 ³⁷	12/15 ³⁸	12/15 ³⁹	94/75 ⁴⁰	4 ⁴¹	1 ⁴²	3.0 ⁴³	2.0 ⁴⁴	12 ⁴⁵	67 ⁴⁶
3 ⁴⁷	15/15 ⁴⁸	9/15 ⁴⁹	64 ⁵⁰	15/9 ⁵¹	30/15 ⁵²	30/15 ⁵³	$\beta_{\text{ed1}}:47/15^{\text{54}}$ $\beta_{\text{ed2}}:47/15^{\text{55}}$	4 ⁵⁶	2 ⁵⁷	2.0 ⁵⁸	1.0 ⁵⁹	15 ⁶⁰	92 ⁶¹
4 ⁶²	2/15 ⁶³	15/15 ⁶⁴	64 ⁶⁵	2/15 ⁶⁶	4/15 ⁶⁷	2/15 ⁶⁸	56/75 ⁶⁹	4 ⁷⁰	1 ⁷¹	3.0 ⁷²	2.0 ⁷³	17 ⁷⁴	71 ⁷⁵
5 ⁷⁶	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁷⁷	15/15 ⁽⁴⁾	30/15 ⁷⁸	24/15 ⁷⁹	134/15 ⁸⁰	4 ⁸¹	1 ⁸²	1.0 ⁸³	0.0 ⁸⁴	21 ⁸⁵	81 ⁸⁶

Note 1: ΔACK , ΔNACK and $\Delta \text{CQI} = 8$ $A_{\text{hz}} = \beta_{\text{hz}}/\beta_{\text{e}} = 30/15$ $\beta_{\text{hz}} = 30/15 * \beta_{\text{e}}$
 Note 2: CM = 1 for $\beta_{\text{e}}/\beta_{\text{d}} = 12/15$, $\beta_{\text{hz}}/\beta_{\text{e}} = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
 Note 3: For subtest 1 the $\beta_{\text{e}}/\beta_{\text{d}}$ ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_{\text{e}} = 10/15$ and $\beta_{\text{d}} = 15/15$.
 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 $\beta_{\text{d}} = 15/15$.
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Table 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



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c) DC-HSDPA

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

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

A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

Table 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.



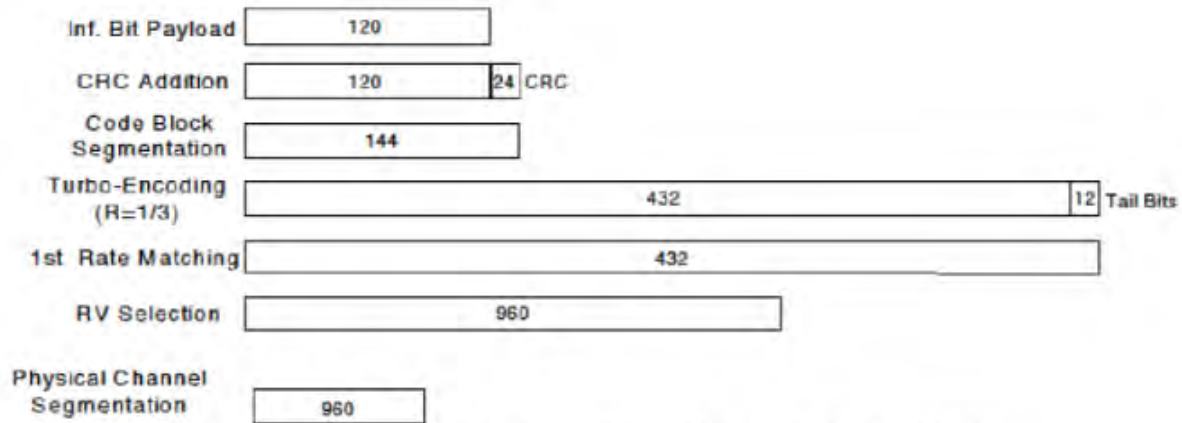


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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

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

Note:

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

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

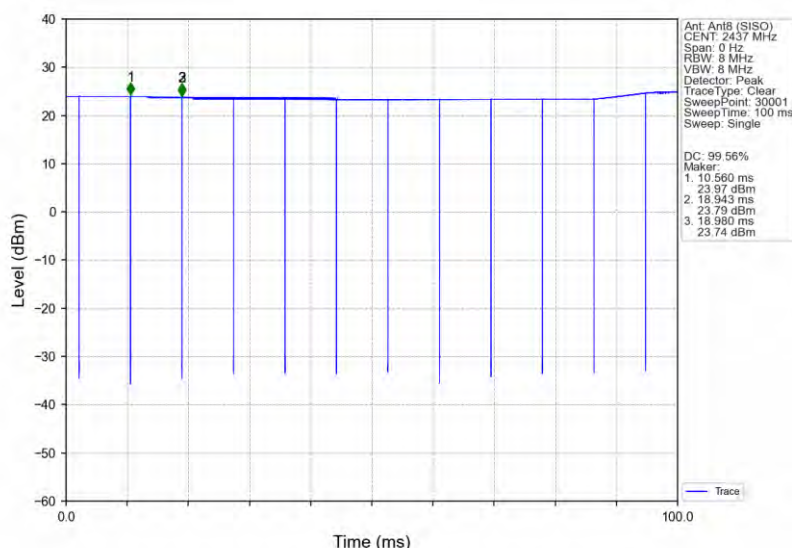
According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power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

8.1.3 WIFI Test Configuration

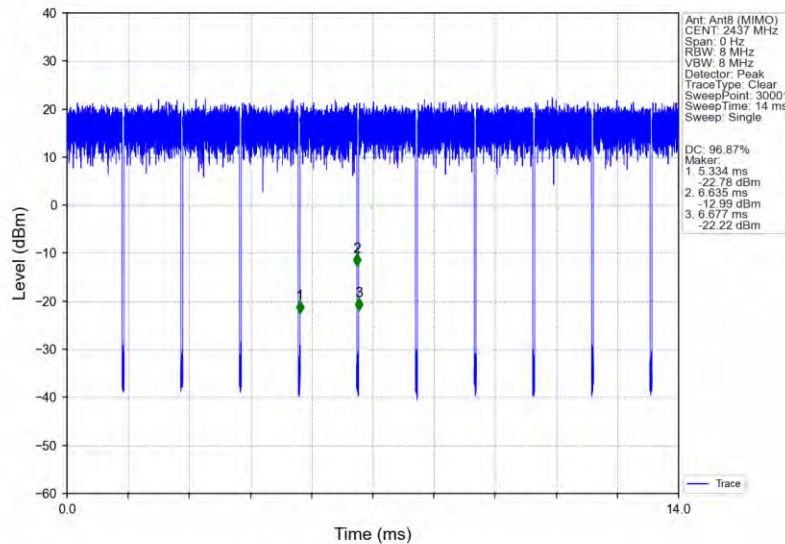
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

8.1.3.1 Duty cycle

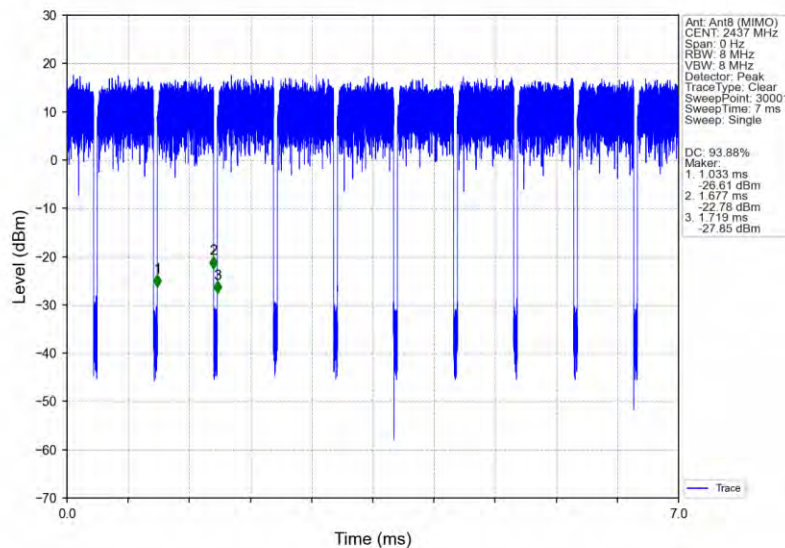
1) Wi-Fi 2.4GHz 802.11b: Duty cycle=99.56%



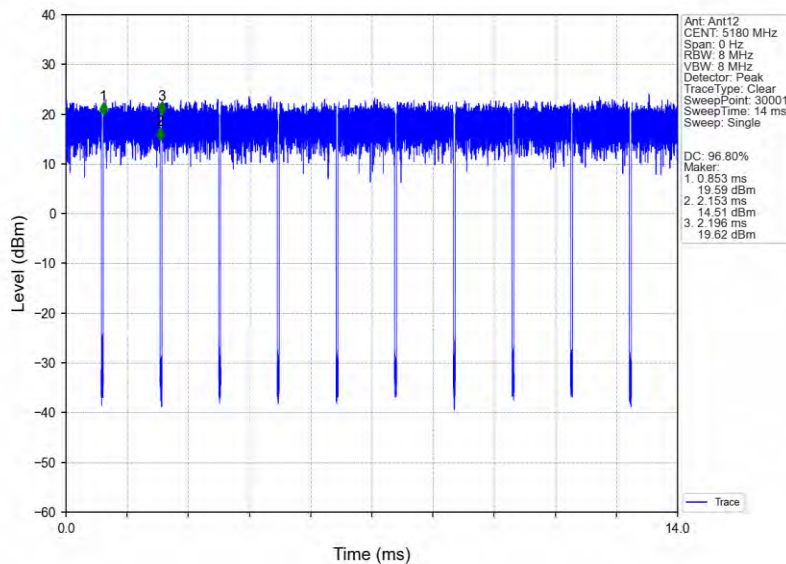
2) Wi-Fi 2.4GHz 802.11n20: Duty cycle=96.87%



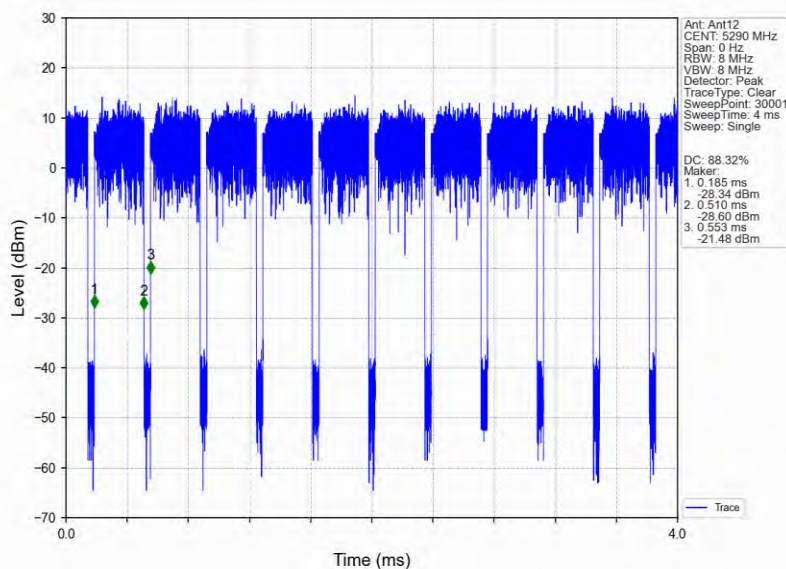
3) Wi-Fi 2.4GHz 802.11n40 : Duty cycle=93.88%



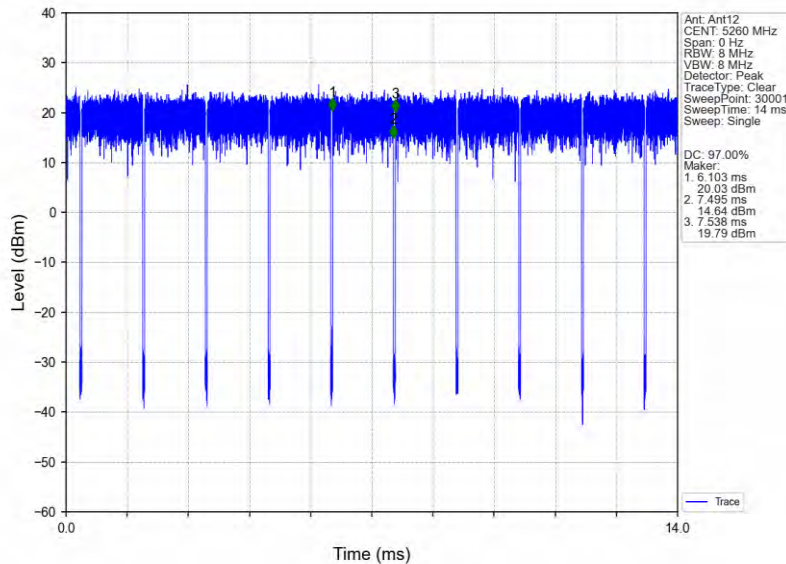
4) Wi-Fi 5GHz 802.11n20: Duty cycle=96.80%



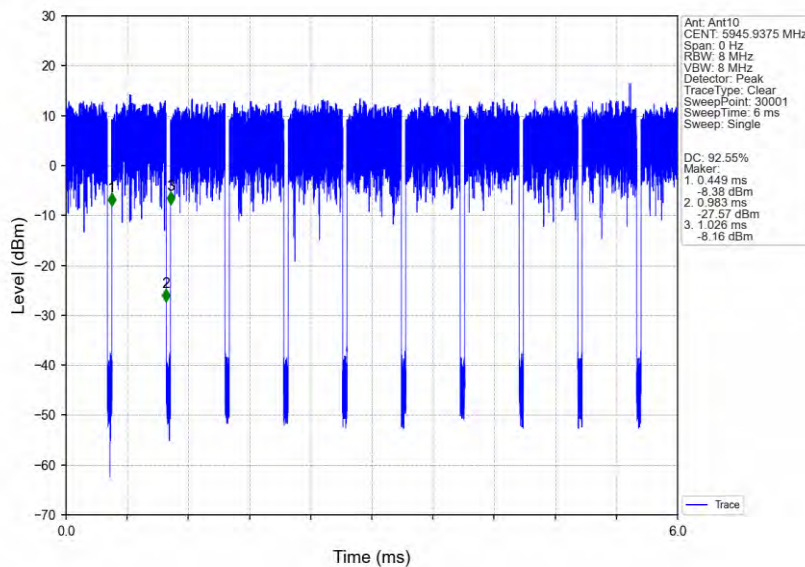
5) Wi-Fi 5GHz 802.11ac80: Duty cycle=88.32%



6) Wi-Fi 5GHz 802.11a: Duty cycle=97.00%



7) Wi-Fi 6GHz 802.11a: Duty cycle=92.55%



8.1.3.2 Initial Test Position SAR Test Reduction Procedure

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

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



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8.1.3.3 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"



8.1.3.4 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.



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8.1.3.5 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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8.1.3.6 5 GHz WiFi PD Procedures

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was 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.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.67 dB (84.9%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover all exposure conditions of phablet.
9. IPD is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
10. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
11. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

Wi-Fi 6E PD Test Record MIMO										
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	iPD _n	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)
Power Density Test DATA										
Back side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	10.20	-0.88	4.91	0.07
Back side	802.11ax HEW40	187/6885	8.7	0.0625	92.55%	1.08	12.50		2.40	-0.01



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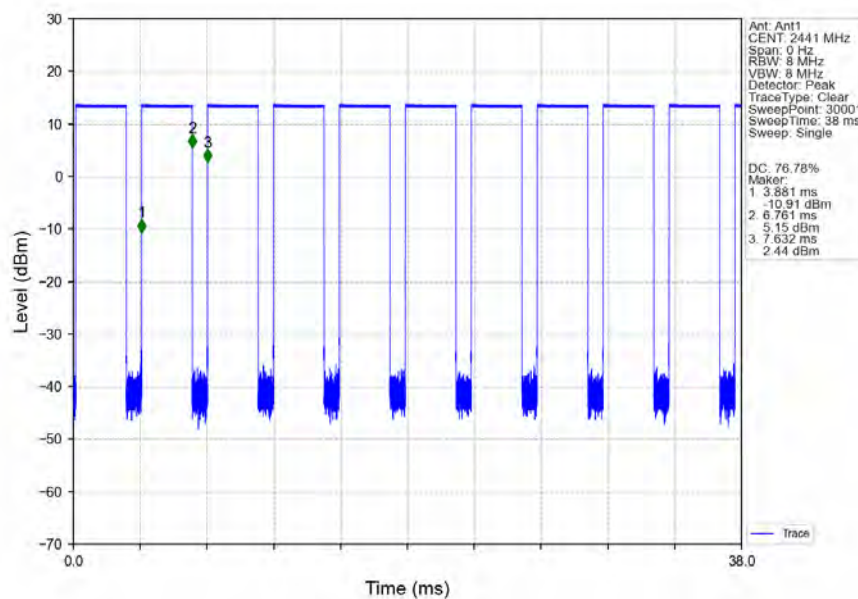
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8.1.4 BT Test Configuration

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.

8.1.4.1 Duty cycle

BT DH5 Duty Cycle=76.78%



8.1.5 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:

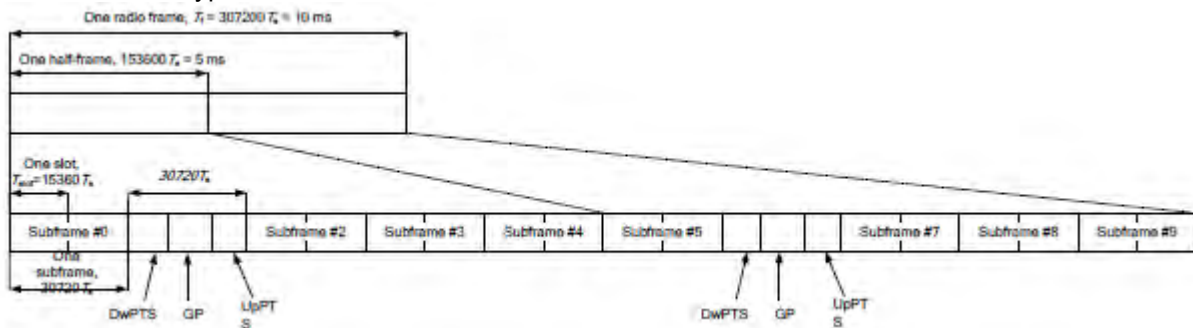


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	4384.Ts	5120.Ts	7680.Ts	4384.Ts	5120.Ts
5	6592.Ts			20480.Ts		
6	19760.Ts			23040.Ts		

7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

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



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64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥ 1						5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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F) LTE CA additional specification

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

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

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

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

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

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

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

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

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

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

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

6) General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section 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:

Band/Antenna		LTE B4	LTE B5	LTE B7		LTE B66	
		Ant3	Ant2	Ant3	Ant7	Ant0	Ant3
LTE B2	Ant0	✓	✓	✓			✓
LTE B4	Ant0		✓	✓			
LTE B5	Ant2				✓	✓	
LTE B12	Ant2					✓	
LTE B48	Ant4						✓

8.1.6 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		B2		B4		B5	B7		B12	B38		B48	B66	
		Ant0	Ant3	Ant0	Ant3	Ant2	Ant7	Ant3	Ant2	Ant7	Ant3	Ant4	Ant0	Ant3
N2	Ant0					✓			✓					✓
N5	Ant2	✓												
N7	Ant7					✓								✓
N12	Ant2	✓												
N41	ANT7		✓						✓					✓
N48	ANT4													
N66	ANT0		✓			✓			✓					✓
	ANT3											✓		
N78	ANT4		✓		✓	✓		✓	✓		✓			✓

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

Band			n2	n5	n7	n12	n38	n41	n48	n66	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle			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	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n5	15 kHz	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n12	15 kHz	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	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
n48	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	Yes	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 $\frac{1}{2}$ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.



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4. MPR

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

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

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

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

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

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

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

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

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

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

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

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

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



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9 Test Result

9.1 DUT Antenna Locations

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.

Distance of the Antenna to the EUT surface/edge (Front View)						
Mode	Front	Back	Left	Right	Top	Bottom
Ant0	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant2	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant3	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
An8	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant9	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant10	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant12	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

9.2 Measurement of RF Conducted Power

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

9.2.2 RF Conducted Power Data

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

9.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB 447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.
- 5) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 6) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission. The NFC data can be refer to NFC SAR report which Report No. SUCR250900087201.
- 7) According to TCB workshop (Overlapping LTE Bands): SAR in LTE Band 2 Ant0 is respectively covered by LTE Band 25 Ant0. SAR in LTE Band 4 Ant0 is respectively covered by LTE Band 66 Ant0.SAR in LTE Band 5 is respectively covered by LTE Band 26.SAR in LTE Band 17 is respectively covered by LTE Band 12. SAR in LTE Band 38 Ant7 is respectively covered by LTE Band 41 Ant7.SAR in N38 is respectively covered by N41.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.
- 8) In the simultaneous transmission, Inter Band LTE Uplink CA and ENDC is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.
 - a.Under Inter Band LTE Uplink CA and ENDC of LTE B66 and N7/66/78 frequency bands use scaled SAR data.
 - b.For the other bands, They used standalone SAR data for “ max + max ” assessment.





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9.3.1 SAR Result of GSM850

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 DSI1											
Left cheek	GPRS 2TS	251/848.8	1:4.15	0.449	0.350	0.03	32.88	33.50	1.153	0.518	22.2
Left tilted	GPRS 2TS	251/848.8	1:4.15	0.211	0.179	0.01	32.88	33.50	1.153	0.243	22.2
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.476	0.399	0.08	32.88	33.50	1.153	0.549	22.2
Right tilted	GPRS 2TS	251/848.8	1:4.15	0.312	0.264	-0.03	32.88	33.50	1.153	0.360	22.2
Body worn Test data(Separate 15mm) DSI2											
Front side	GPRS 2TS	251/848.8	1:4.15	0.420	0.285	0.03	32.88	33.50	1.153	0.484	22.2
Back side	GPRS 2TS	251/848.8	1:4.15	0.760	0.506	-0.17	32.88	33.50	1.153	0.877	22.2
Back side	GPRS 2TS	128/824.2	1:4.15	0.710	0.479	-0.02	32.60	33.50	1.230	0.873	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.728	0.489	0.04	32.70	33.50	1.202	0.875	22.2
Hotspot Test data(Separate 10mm) DSI3											
Front side	GPRS 2TS	251/848.8	1:4.15	0.555	0.399	0.03	32.88	33.50	1.153	0.640	22.2
Back side	GPRS 2TS	251/848.8	1:4.15	1.070	0.670	-0.08	32.88	33.50	1.153	1.234	22.2
Right side	GPRS 2TS	251/848.8	1:4.15	0.434	0.249	-0.02	32.88	33.50	1.153	0.501	22.2
Bottom side	GPRS 2TS	251/848.8	1:4.15	0.168	0.119	0.06	32.88	33.50	1.153	0.194	22.2
Back side	GPRS 2TS	128/824.2	1:4.15	0.835	0.515	-0.06	32.60	33.50	1.230	1.027	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	1.100	0.675	-0.12	32.70	33.50	1.202	1.322	22.2
Back side-Repeated	GPRS 2TS	190/836.6	1:4.15	1.070	0.670	0.01	32.70	33.50	1.202	1.286	22.2
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR SAR Test data (Separate 0mm 1RB) DSI2											
Back side	GPRS 2TS	251/848.8	1:4.15	3.990	2.210	0.12	32.88	33.50	1.153	2.549	22.2
Back side	GPRS 2TS	128/824.2	1:4.15	3.750	2.140	-0.03	32.60	33.50	1.230	2.633	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	4.070	2.290	0.00	32.70	33.50	1.202	2.753	22.2
Back side-Repeated	GPRS 2TS	190/836.6	1:4.15	4.010	2.270	0.12	32.70	33.50	1.202	2.729	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 10mm	190/836.6	1.100	1.070	1.028	N/A	N/A
Back side 0mm	190/836.6	2.290	2.270	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 ($\sim 10\%$ 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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9.3.2 SAR Result of GSM1900

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 DSI1											
Left cheek	GPRS 4TS	810/1909.8	1:2.075	0.313	0.211	-0.05	22.81	24.00	1.315	0.412	22.2
Left tilted	GPRS 4TS	810/1909.8	1:2.075	0.383	0.227	0.08	22.81	24.00	1.315	0.504	22.2
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.710	0.428	0.13	22.81	24.00	1.315	0.934	22.2
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.534	0.305	-0.06	22.81	24.00	1.315	0.702	22.2
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.467	0.293	0.07	22.79	24.00	1.321	0.617	22.2
Right cheek	GPRS 4TS	661/1880	1:2.075	0.648	0.357	0.01	22.77	24.00	1.327	0.860	22.2
Body worn Test data(Separate 15mm) DSI2											
Front side	GPRS 2TS	661/1880	1:4.15	0.162	0.116	0.02	29.00	30.00	1.259	0.204	22.2
Back side	GPRS 2TS	661/1880	1:4.15	0.242	0.168	0.02	29.00	30.00	1.259	0.305	22.2
Hotspot Test data(Separate 10mm) DSI3											
Front side	GPRS 2TS	661/1880	1:4.15	0.267	0.185	-0.04	29.00	30.00	1.259	0.336	22.2
Back side	GPRS 2TS	661/1880	1:4.15	0.452	0.287	-0.14	29.00	30.00	1.259	0.569	22.2
Left side	GPRS 2TS	661/1880	1:4.15	0.316	0.179	0.02	29.00	30.00	1.259	0.398	22.2
Top side	GPRS 2TS	661/1880	1:4.15	0.340	0.226	-0.05	29.00	30.00	1.259	0.428	22.2



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9.3.3 SAR Result of WCDMA Band II

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 DSI1											
Left cheek	RMC	9400/1880	1:1	0.462	0.285	-0.06	19.83	20.50	1.167	0.539	22.1
Left tilted	RMC	9400/1880	1:1	0.536	0.307	-0.01	19.83	20.50	1.167	0.625	22.1
Right cheek	RMC	9400/1880	1:1	0.927	0.538	0.00	19.83	20.50	1.167	1.082	22.1
Right tilted	RMC	9400/1880	1:1	0.806	0.422	0.06	19.83	20.50	1.167	0.940	22.1
Right cheek	RMC	9262/1852.4	1:1	1.120	0.646	-0.03	19.67	20.50	1.211	1.356	22.1
Right cheek-Repeated	RMC	9262/1852.4	1:1	1.080	0.632	-0.01	19.67	20.50	1.211	1.307	22.1
Right cheek	RMC	9538/1907.6	1:1	0.768	0.445	-0.06	19.73	20.50	1.194	0.917	22.1
Right tilted	RMC	9262/1852.4	1:1	0.919	0.482	0.03	19.67	20.50	1.211	1.113	22.1
Right tilted	RMC	9538/1907.6	1:1	0.673	0.361	0.04	19.73	20.50	1.194	0.804	22.1
Body worn Test data(Separate 15mm) DSI2											
Front side	RMC	9400/1880	1:1	0.181	0.114	-0.01	22.85	23.50	1.161	0.210	22.1
Back side	RMC	9400/1880	1:1	0.280	0.174	-0.16	22.85	23.50	1.161	0.325	22.1
Hotspot Test data(Separate 10mm) DSI3											
Front side	RMC	9400/1880	1:1	0.380	0.239	-0.06	21.84	22.50	1.164	0.442	22.1
Back side	RMC	9400/1880	1:1	0.616	0.389	0.03	21.84	22.50	1.164	0.717	22.1
Left side	RMC	9400/1880	1:1	0.256	0.137	0.08	21.84	22.50	1.164	0.298	22.1
Top side	RMC	9400/1880	1:1	0.689	0.415	-0.07	21.84	22.50	1.164	0.802	22.1
Top side	RMC	9262/1852.4	1:1	0.784	0.469	0.04	21.69	22.50	1.205	0.945	22.1
Top side	RMC	9538/1907.6	1:1	0.560	0.339	-0.04	21.77	22.50	1.183	0.663	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	9262/1852.4	1.120	1.080	1.037	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.



9.3.4 SAR Result of WCDMA Band IV

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 DSI1											
Left cheek	RMC	1312/1712.4	1:1	0.463	0.281	0.05	19.36	20.00	1.159	0.537	22.1
Left tilted	RMC	1312/1712.4	1:1	0.491	0.279	-0.04	19.36	20.00	1.159	0.569	22.1
Right cheek	RMC	1312/1712.4	1:1	0.849	0.490	0.10	19.36	20.00	1.159	0.984	22.1
Right cheek-Repeated	RMC	1312/1712.4	1:1	0.826	0.480	0.12	19.36	20.00	1.159	0.957	22.1
Right tilted	RMC	1312/1712.4	1:1	0.688	0.350	0.03	19.36	20.00	1.159	0.797	22.1
Right cheek	RMC	1412/1732.4	1:1	0.833	0.482	0.01	19.35	20.00	1.161	0.967	22.1
Right cheek	RMC	1513/1752.6	1:1	0.812	0.471	0.02	19.33	20.00	1.167	0.947	22.1
Body worn Test data(Separate 15mm) DSI2											
Front side	RMC	1412/1732.4	1:1	0.256	0.180	0.04	22.43	23.00	1.140	0.292	22.1
Back side	RMC	1412/1732.4	1:1	0.349	0.245	-0.04	22.43	23.00	1.140	0.398	22.1
Hotspot Test data(Separate 10mm) DSI3											
Front side	RMC	1412/1732.4	1:1	0.404	0.245	0.07	21.43	22.00	1.140	0.461	22.1
Back side	RMC	1412/1732.4	1:1	0.628	0.369	-0.01	21.43	22.00	1.140	0.716	22.1
Left side	RMC	1412/1732.4	1:1	0.315	0.161	0.06	21.43	22.00	1.140	0.359	22.1
Top side	RMC	1412/1732.4	1:1	0.666	0.382	0.05	21.43	22.00	1.140	0.759	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	1312/1712.4	0.849	0.826	1.028	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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9.3.5 SAR Result of WCDMA Band V

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 DSI1											
Left cheek	RMC	4182/836.4	1:1	0.245	0.196	-0.02	23.58	24.00	1.102	0.270	22.2
Left tilted	RMC	4182/836.4	1:1	0.123	0.106	0.08	23.58	24.00	1.102	0.135	22.2
Right cheek	RMC	4182/836.4	1:1	0.298	0.248	0.03	23.58	24.00	1.102	0.328	22.2
Right tilted	RMC	4182/836.4	1:1	0.177	0.148	0.03	23.58	24.00	1.102	0.195	22.2
Body worn Test data(Separate 15mm) DSI2											
Front side	RMC	4182/836.4	1:1	0.222	0.161	-0.07	23.58	24.00	1.102	0.245	22.2
Back side	RMC	4182/836.4	1:1	0.435	0.287	-0.07	23.58	24.00	1.102	0.479	22.2
Hotspot Test data(Separate 10mm) DSI3											
Front side	RMC	4182/836.4	1:1	0.325	0.230	-0.06	23.58	24.00	1.102	0.358	22.2
Back side	RMC	4182/836.4	1:1	0.720	0.453	-0.03	23.58	24.00	1.102	0.793	22.2
Right side	RMC	4182/836.4	1:1	0.352	0.224	0.06	23.58	24.00	1.102	0.388	22.2
Bottom side	RMC	4182/836.4	1:1	0.104	0.073	-0.05	23.58	24.00	1.102	0.115	22.2



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9.3.6 SAR Result of LTE Band 2

Ant 3 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) DSI1												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.097	0.066	-0.19	24.37	25.00	1.156	0.113	22.2
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.043	0.016	-0.01	24.37	25.00	1.156	0.050	22.2
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.067	0.044	0.01	24.37	25.00	1.156	0.077	22.2
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.041	0.025	-0.08	24.37	25.00	1.156	0.047	22.2
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	18900/1880	1:1	0.078	0.049	0.01	23.39	24.00	1.151	0.090	22.2
Left tilted	20	QPSK 50_50	18900/1880	1:1	0.039	0.014	0.00	23.39	24.00	1.151	0.045	22.2
Right cheek	20	QPSK 50_50	18900/1880	1:1	0.055	0.036	0.02	23.39	24.00	1.151	0.063	22.2
Right tilted	20	QPSK 50_50	18900/1880	1:1	0.022	0.013	0.04	23.39	24.00	1.151	0.025	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_50	18900/1880	1:1	0.049	0.029	0.01	19.72	20.50	1.197	0.059	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.116	0.062	0.06	19.72	20.50	1.197	0.139	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_0	18900/1880	1:1	0.071	0.045	0.02	19.75	20.50	1.189	0.084	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.152	0.093	0.01	19.75	20.50	1.189	0.181	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_50	18900/1880	1:1	0.039	0.020	0.05	17.69	18.50	1.205	0.047	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.064	0.036	-0.02	17.69	18.50	1.205	0.077	22.2
Left side	20	QPSK 1_50	18900/1880	1:1	0.022	0.012	-0.03	17.69	18.50	1.205	0.027	22.2
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.055	0.028	0.08	17.69	18.50	1.205	0.066	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_0	18900/1880	1:1	0.080	0.050	-0.03	17.76	18.50	1.186	0.095	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.160	0.092	-0.06	17.76	18.50	1.186	0.190	22.2
Left side	20	QPSK 50_0	18900/1880	1:1	0.032	0.019	-0.03	17.76	18.50	1.186	0.038	22.2
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.148	0.081	0.06	17.76	18.50	1.186	0.175	22.2



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9.3.7 SAR Result of LTE Band 4

Ant 3 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) DSI1												
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.027	0.019	0.02	24.05	25.00	1.245	0.034	22.2
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.012	0.004	-0.06	24.05	25.00	1.245	0.015	22.2
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.021	0.014	0.03	24.05	25.00	1.245	0.026	22.2
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.007	0.003	0.00	24.05	25.00	1.245	0.009	22.2
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.029	0.020	0.02	23.02	24.00	1.253	0.036	22.2
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.015	0.006	0.05	23.02	24.00	1.253	0.019	22.2
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.023	0.016	-0.01	23.02	24.00	1.253	0.029	22.2
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.009	0.005	0.04	23.02	24.00	1.253	0.011	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	20175/1732.5	1:1	0.057	0.039	-0.05	19.55	20.50	1.245	0.071	22.2
Back side	20	QPSK 1_99	20175/1732.5	1:1	0.125	0.080	-0.16	19.55	20.50	1.245	0.156	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.053	0.024	0.06	19.54	20.50	1.247	0.066	22.2
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.083	0.047	-0.03	19.54	20.50	1.247	0.104	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_99	20175/1732.5	1:1	0.070	0.044	-0.01	17.50	18.50	1.259	0.088	22.2
Back side	20	QPSK 1_99	20175/1732.5	1:1	0.160	0.094	-0.01	17.50	18.50	1.259	0.201	22.2
Left side	20	QPSK 1_99	20175/1732.5	1:1	0.009	0.005	0.02	17.50	18.50	1.259	0.011	22.2
Bottom side	20	QPSK 1_99	20175/1732.5	1:1	0.127	0.075	0.04	17.50	18.50	1.259	0.160	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.037	0.024	-0.03	17.55	18.50	1.245	0.046	22.2
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.090	0.054	0.04	17.55	18.50	1.245	0.112	22.2
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.005	0.002	0.02	17.55	18.50	1.245	0.006	22.2
Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.065	0.040	-0.03	17.55	18.50	1.245	0.081	22.2

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9.3.8 SAR Result of LTE Band 7

Ant 7 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) DSI1												
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.119	0.065	-0.03	16.71	17.00	1.069	0.127	22.2
Left tilted	20	QPSK 1_0	20850/2510	1:1	0.072	0.039	0.05	16.71	17.00	1.069	0.077	22.2
Right cheek	20	QPSK 1_0	20850/2510	1:1	0.428	0.194	-0.05	16.71	17.00	1.069	0.458	22.2
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.178	0.088	0.08	16.71	17.00	1.069	0.190	22.2
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.383	0.186	0.06	16.12	17.00	1.225	0.469	22.1
		QPSK 1_0	21048/2529.8									
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.126	0.069	0.02	16.70	17.00	1.072	0.135	22.2
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.074	0.040	-0.06	16.70	17.00	1.072	0.079	22.2
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.442	0.198	0.04	16.70	17.00	1.072	0.474	22.1
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.183	0.091	-0.07	16.70	17.00	1.072	0.196	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_0	20850/2510	1:1	0.165	0.090	0.06	20.75	21.00	1.059	0.175	22.2
Back side	20	QPSK 1_0	20850/2510	1:1	0.348	0.181	0.07	20.75	21.00	1.059	0.369	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.254	0.127	0.01	20.08	21.00	1.236	0.314	22.1
		QPSK 1_0	21048/2529.8									
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_0	20850/2510	1:1	0.166	0.091	-0.01	20.69	21.00	1.074	0.178	22.2
Back side	20	QPSK 50_0	20850/2510	1:1	0.343	0.180	0.03	20.69	21.00	1.074	0.368	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_0	20850/2510	1:1	0.187	0.093	0.07	19.70	20.00	1.072	0.200	22.2
Back side	20	QPSK 1_0	20850/2510	1:1	0.444	0.208	0.08	19.70	20.00	1.072	0.476	22.2
Left side	20	QPSK 1_0	20850/2510	1:1	0.308	0.147	0.02	19.70	20.00	1.072	0.330	22.2
Top side	20	QPSK 1_0	20850/2510	1:1	0.112	0.062	-0.04	19.70	20.00	1.072	0.120	22.2
Back side	20	QPSK 1_99	20850/2510	1:1	0.431	0.209	-0.03	19.01	20.00	1.256	0.541	22.1
		QPSK 1_0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	21350/2560	1:1	0.252	0.123	0.07	19.66	20.00	1.081	0.273	22.2
Back side	20	QPSK 50_50	21350/2560	1:1	0.494	0.243	-0.01	19.66	20.00	1.081	0.534	22.2
Left side	20	QPSK 50_50	21350/2560	1:1	0.618	0.299	0.07	19.66	20.00	1.081	0.668	22.1
Top side	20	QPSK 50_50	21350/2560	1:1	0.123	0.069	-0.06	19.66	20.00	1.081	0.133	22.2
Ant 3 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) DSI1												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.175	0.092	0.06	23.65	24.00	1.084	0.190	22.2
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.072	0.041	0.08	23.65	24.00	1.084	0.078	22.2



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Right cheek	20	QPSK 1_50	21350/2560	1:1	0.103	0.058	0.08	23.65	24.00	1.084	0.112	22.2
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.069	0.038	0.05	23.65	24.00	1.084	0.075	22.2
Head Test Data (50%RB) DS11												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.097	0.058	0.00	22.89	23.00	1.026	0.099	22.2
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.041	0.023	-0.02	22.89	23.00	1.026	0.042	22.2
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.074	0.042	-0.04	22.89	23.00	1.026	0.076	22.2
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.038	0.019	-0.08	22.89	23.00	1.026	0.039	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	20	QPSK 1_50	21350/2560	1:1	0.062	0.033	-0.01	17.72	18.00	1.067	0.066	22.2
Back side	20	QPSK 1_50	21350/2560	1:1	0.147	0.072	-0.05	17.72	18.00	1.067	0.157	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	20	QPSK 50_25	21350/2560	1:1	0.064	0.033	0.06	17.68	18.00	1.076	0.069	22.2
Back side	20	QPSK 50_25	21350/2560	1:1	0.145	0.070	-0.07	17.68	18.00	1.076	0.156	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	20	QPSK 1_50	21350/2560	1:1	0.097	0.048	0.07	16.77	17.00	1.054	0.102	22.2
Back side	20	QPSK 1_50	21350/2560	1:1	0.263	0.122	-0.03	16.77	17.00	1.054	0.277	22.2
Left side	20	QPSK 1_50	21350/2560	1:1	0.012	0.004	-0.02	16.77	17.00	1.054	0.013	22.2
Bottom side	20	QPSK 1_50	21350/2560	1:1	0.180	0.089	0.07	16.77	17.00	1.054	0.190	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	20	QPSK 50_25	21350/2560	1:1	0.086	0.042	0.04	16.68	17.00	1.076	0.093	22.2
Back side	20	QPSK 50_25	21350/2560	1:1	0.255	0.116	-0.01	16.68	17.00	1.076	0.274	22.2
Left side	20	QPSK 50_25	21350/2560	1:1	0.010	0.003	0.05	16.68	17.00	1.076	0.011	22.2
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.176	0.085	0.01	16.68	17.00	1.076	0.189	22.2



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9.3.9 SAR Result of LTE Band 12

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) DSI1												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.177	0.138	0.04	24.16	24.50	1.081	0.191	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.099	0.081	0.02	24.16	24.50	1.081	0.107	22.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.190	0.158	0.08	24.16	24.50	1.081	0.205	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.132	0.109	-0.03	24.16	24.50	1.081	0.143	22.2
Head Test Data (50%RB) DSI1												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.145	0.114	0.02	23.09	23.50	1.099	0.159	22.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.080	0.067	-0.06	23.09	23.50	1.099	0.088	22.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.152	0.127	0.05	23.09	23.50	1.099	0.167	22.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.108	0.091	-0.07	23.09	23.50	1.099	0.119	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.193	0.156	0.02	24.16	24.50	1.081	0.209	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.270	0.218	0.05	24.16	24.50	1.081	0.292	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.152	0.124	0.03	23.09	23.50	1.099	0.167	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.213	0.172	-0.05	23.09	23.50	1.099	0.234	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.180	0.124	0.00	24.16	24.50	1.081	0.195	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.286	0.193	0.05	24.16	24.50	1.081	0.309	22.2
Right side	10	QPSK 1_0	23095/707.5	1:1	0.336	0.235	0.03	24.16	24.50	1.081	0.363	22.2
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.122	0.078	-0.03	24.16	24.50	1.081	0.132	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.143	0.097	0.02	23.09	23.50	1.099	0.157	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.226	0.151	-0.08	23.09	23.50	1.099	0.248	22.2
Right side	10	QPSK 25_0	23095/707.5	1:1	0.265	0.185	0.08	23.09	23.50	1.099	0.291	22.2
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.101	0.063	-0.02	23.09	23.50	1.099	0.111	22.2

9.3.10 SAR Result of LTE Band 13

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) DSI1												
Left cheek	10	QPSK 1_49	23230/782	1:1	0.283	0.226	-0.05	24.07	24.50	1.104	0.312	22.2
Left tilted	10	QPSK 1_49	23230/782	1:1	0.152	0.131	0.04	24.07	24.50	1.104	0.168	22.2
Right cheek	10	QPSK 1_49	23230/782	1:1	0.343	0.285	0.08	24.07	24.50	1.104	0.379	22.2
Right tilted	10	QPSK 1_49	23230/782	1:1	0.214	0.185	0.04	24.07	24.50	1.104	0.236	22.2
Head Test Data (50%RB) DSI1												
Left cheek	10	QPSK 25_13	23230/782	1:1	0.227	0.181	0.02	22.99	23.50	1.125	0.255	22.2
Left tilted	10	QPSK 25_13	23230/782	1:1	0.121	0.105	-0.06	22.99	23.50	1.125	0.136	22.2
Right cheek	10	QPSK 25_13	23230/782	1:1	0.264	0.221	-0.05	22.99	23.50	1.125	0.297	22.2
Right tilted	10	QPSK 25_13	23230/782	1:1	0.177	0.152	0.03	22.99	23.50	1.125	0.199	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	10	QPSK 1_49	23230/782	1:1	0.052	0.040	0.02	24.07	24.50	1.104	0.057	22.2
Back side	10	QPSK 1_49	23230/782	1:1	0.058	0.047	-0.07	24.07	24.50	1.104	0.064	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	10	QPSK 25_13	23230/782	1:1	0.042	0.025	0.04	22.99	23.50	1.125	0.047	22.2
Back side	10	QPSK 25_13	23230/782	1:1	0.044	0.033	0.03	22.99	23.50	1.125	0.049	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	10	QPSK 1_49	23230/782	1:1	0.343	0.231	0.07	24.07	24.50	1.104	0.379	22.2
Back side	10	QPSK 1_49	23230/782	1:1	0.549	0.370	0.17	24.07	24.50	1.104	0.606	22.2
Right side	10	QPSK 1_49	23230/782	1:1	0.463	0.318	0.06	24.07	24.50	1.104	0.511	22.2
Bottom side	10	QPSK 1_49	23230/782	1:1	0.259	0.163	0.07	24.07	24.50	1.104	0.286	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	10	QPSK 25_13	23230/782	1:1	0.279	0.188	0.03	22.99	23.50	1.125	0.314	22.2
Back side	10	QPSK 25_13	23230/782	1:1	0.455	0.296	-0.08	22.99	23.50	1.125	0.512	22.2
Right side	10	QPSK 25_13	23230/782	1:1	0.362	0.250	0.02	22.99	23.50	1.125	0.407	22.2

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9.3.11 SAR Result of LTE Band 25

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) DSI1												
Left cheek	20	QPSK 1_0	26140/1860	1:1	0.398	0.267	0.05	19.16	20.00	1.213	0.483	22.2
Left tilted	20	QPSK 1_0	26140/1860	1:1	0.467	0.293	-0.04	19.16	20.00	1.213	0.567	22.2
Right cheek	20	QPSK 1_0	26140/1860	1:1	0.778	0.487	0.18	19.16	20.00	1.213	0.944	22.2
Right tilted	20	QPSK 1_0	26140/1860	1:1	0.651	0.369	0.08	19.16	20.00	1.213	0.790	22.2
Right cheek	20	QPSK 1_0	26365/1882.5	1:1	0.671	0.425	-0.03	19.02	20.00	1.253	0.841	22.2
Right cheek	20	QPSK 1_99	26590/1905	1:1	0.557	0.340	-0.07	19.10	20.00	1.230	0.685	22.2
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	26590/1905	1:1	0.263	0.172	0.06	19.16	20.00	1.213	0.319	22.2
Left tilted	20	QPSK 50_50	26590/1905	1:1	0.333	0.205	0.07	19.16	20.00	1.213	0.404	22.2
Right cheek	20	QPSK 50_50	26590/1905	1:1	0.547	0.344	-0.03	19.16	20.00	1.213	0.664	22.2
Right tilted	20	QPSK 50_50	26590/1905	1:1	0.502	0.284	-0.03	19.16	20.00	1.213	0.609	22.2
Head Test Data (100%RB) DSI1												
Right cheek	20	QPSK 100_0	26590/1905	1:1	0.542	0.346	0.06	19.16	20.00	1.213	0.658	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	26590/1905	1:1	0.100	0.065	-0.05	22.19	23.00	1.205	0.121	22.2
Back side	20	QPSK 1_99	26590/1905	1:1	0.195	0.114	0.06	22.19	23.00	1.205	0.235	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	26590/1905	1:1	0.108	0.072	0.03	22.19	23.00	1.205	0.130	22.2
Back side	20	QPSK 50_50	26590/1905	1:1	0.189	0.112	0.01	22.19	23.00	1.205	0.228	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_0	26140/1860	1:1	0.348	0.228	0.05	21.14	22.00	1.219	0.424	22.2
Back side	20	QPSK 1_0	26140/1860	1:1	0.526	0.347	-0.04	21.14	22.00	1.219	0.641	22.2
Left side	20	QPSK 1_0	26140/1860	1:1	0.232	0.135	0.02	21.14	22.00	1.219	0.283	22.2
Top side	20	QPSK 1_0	26140/1860	1:1	0.602	0.380	-0.03	21.14	22.00	1.219	0.734	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	26590/1905	1:1	0.209	0.137	-0.05	21.17	22.00	1.211	0.253	22.2
Back side	20	QPSK 50_50	26590/1905	1:1	0.444	0.257	0.06	21.17	22.00	1.211	0.538	22.2
Left side	20	QPSK 50_50	26590/1905	1:1	0.255	0.136	0.08	21.17	22.00	1.211	0.309	22.2
Top side	20	QPSK 50_50	26590/1905	1:1	0.405	0.254	0.03	21.17	22.00	1.211	0.490	22.2



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9.3.12 SAR Result of LTE Band 26

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) DSI1												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.185	0.147	-0.08	23.58	24.50	1.236	0.229	22.1
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.097	0.084	-0.01	23.58	24.50	1.236	0.120	22.1
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.234	0.194	0.07	23.58	24.50	1.236	0.289	22.1
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.141	0.120	-0.06	23.58	24.50	1.236	0.174	22.1
Head Test Data (50%RB) DSI1												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.147	0.117	0.06	22.61	23.50	1.227	0.180	22.1
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.080	0.068	-0.07	22.61	23.50	1.227	0.098	22.1
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.184	0.154	0.04	22.61	23.50	1.227	0.226	22.1
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.112	0.096	-0.05	22.61	23.50	1.227	0.137	22.1
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.185	0.125	-0.06	23.58	24.50	1.236	0.229	22.1
Back side	15	QPSK 1_0	26865/831.5	1:1	0.363	0.236	0.02	23.58	24.50	1.236	0.449	22.1
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.147	0.102	-0.03	22.61	23.50	1.227	0.180	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.293	0.190	0.05	22.61	23.50	1.227	0.360	22.1
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.241	0.164	-0.07	23.58	24.50	1.236	0.298	22.1
Back side	15	QPSK 1_0	26865/831.5	1:1	0.526	0.330	-0.04	23.58	24.50	1.236	0.650	22.1
Right side	15	QPSK 1_0	26865/831.5	1:1	0.329	0.187	-0.06	23.58	24.50	1.236	0.407	22.1
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.236	0.140	-0.07	23.58	24.50	1.236	0.292	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.193	0.133	0.03	22.61	23.50	1.227	0.237	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.414	0.263	-0.03	22.61	23.50	1.227	0.508	22.1
Right side	15	QPSK 36_0	26865/831.5	1:1	0.271	0.154	0.08	22.61	23.50	1.227	0.333	22.1
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.190	0.114	-0.08	22.61	23.50	1.227	0.233	22.1



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9.3.13 SAR Result of LTE Band 38

Ant 3 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) DSI1												
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.067	0.037	0.06	23.96	24.50	1.132	0.076	22.2
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.028	0.015	0.03	23.96	24.50	1.132	0.032	22.2
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.057	0.033	-0.05	23.96	24.50	1.132	0.065	22.2
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.027	0.015	-0.06	23.96	24.50	1.132	0.031	22.2
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.064	0.035	-0.01	22.97	23.50	1.130	0.072	22.2
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.023	0.012	-0.03	22.97	23.50	1.130	0.026	22.2
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.049	0.028	-0.01	22.97	23.50	1.130	0.055	22.2
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.034	0.019	-0.08	22.97	23.50	1.130	0.038	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_50	38000/2595	1:1.58	0.105	0.059	0.00	19.94	20.50	1.138	0.119	22.2
Back side	20	QPSK 1_50	38000/2595	1:1.58	0.234	0.119	-0.08	19.94	20.50	1.138	0.266	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.103	0.059	-0.02	19.92	20.50	1.143	0.118	22.2
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.237	0.123	0.11	19.92	20.50	1.143	0.271	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.092	0.046	-0.02	18.90	19.50	1.148	0.106	22.2
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.253	0.119	0.01	18.90	19.50	1.148	0.290	22.2
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.010	0.006	-0.03	18.90	19.50	1.148	0.011	22.2
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.212	0.107	-0.06	18.90	19.50	1.148	0.243	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.100	0.050	0.01	18.88	19.50	1.153	0.115	22.2
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.269	0.122	0.05	18.88	19.50	1.153	0.310	22.2
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.013	0.009	0.02	18.88	19.50	1.153	0.015	22.2
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.222	0.110	-0.03	18.88	19.50	1.153	0.256	22.2



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9.3.14 SAR Result of LTE Band 41

Ant 7 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) DSI1												
Left cheek	20	QPSK 1_99	40620/2593	1:1.58	0.326	0.131	0.06	21.45	22.00	1.135	0.370	22.3
Left tilted	20	QPSK 1_99	40620/2593	1:1.58	0.128	0.068	-0.04	21.45	22.00	1.135	0.145	22.3
Right cheek	20	QPSK 1_99	40620/2593	1:1.58	0.873	0.353	-0.07	21.45	22.00	1.135	0.991	22.3
Right tilted	20	QPSK 1_99	40620/2593	1:1.58	0.321	0.153	0.03	21.45	22.00	1.135	0.364	22.3
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.920	0.436	-0.03	20.94	22.00	1.276	1.174	22.3
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	1.170	0.521	-0.01	21.30	22.00	1.175	1.375	21.3
Right cheek-Repeated	20	QPSK 1_0	40185/2549.5	1:1.58	1.110	0.493	-0.02	21.30	22.00	1.175	1.304	22.3
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.837	0.367	0.06	21.42	22.00	1.143	0.957	22.3
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	1.060	0.462	-0.01	21.23	22.00	1.194	1.266	22.3
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	40620/2593	1:1.58	0.330	0.131	-0.07	21.44	22.00	1.138	0.375	22.3
Left tilted	20	QPSK 50_50	40620/2593	1:1.58	0.150	0.081	-0.08	21.44	22.00	1.138	0.171	22.3
Right cheek	20	QPSK 50_50	40620/2593	1:1.58	0.912	0.419	0.00	21.44	22.00	1.138	1.038	22.3
Right tilted	20	QPSK 50_50	40620/2593	1:1.58	0.338	0.165	0.07	21.44	22.00	1.138	0.385	22.3
Right cheek	20	QPSK 50_50	39750/2506	1:1.58	0.938	0.446	0.07	21.10	22.00	1.230	1.154	22.3
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.972	0.434	0.08	20.99	22.00	1.262	1.226	21.3
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.720	0.305	-0.07	21.44	22.00	1.138	0.819	22.3
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.837	0.356	-0.07	21.23	22.00	1.194	0.999	22.3
Head Test Data (100%RB) DSI1												
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.848	0.385	0.02	21.41	22.00	1.146	0.971	22.3
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	41055/2636.5	1:1.58	0.149	0.077	0.01	23.47	24.00	1.130	0.168	22.3
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.254	0.136	-0.07	23.47	24.00	1.130	0.287	22.1
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	40620/2593	1:1.58	0.134	0.067	0.04	23.47	24.00	1.130	0.151	22.3
Back side	20	QPSK 50_50	40620/2593	1:1.58	0.247	0.131	0.02	23.47	24.00	1.130	0.279	22.3
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_50	41055/2636.5	1:1.58	0.225	0.110	0.00	22.45	23.00	1.135	0.255	22.3
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.488	0.231	0.00	22.45	23.00	1.135	0.554	22.3
Left side	20	QPSK 1_50	41055/2636.5	1:1.58	0.556	0.253	0.01	22.45	23.00	1.135	0.631	22.3
Top side	20	QPSK 1_50	41055/2636.5	1:1.58	0.120	0.064	-0.08	22.45	23.00	1.135	0.136	22.3
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.411	0.197	0.05	21.99	23.00	1.262	0.519	22.3
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	0.610	0.282	0.04	21.94	23.00	1.276	0.779	22.3
Left side	20	QPSK 1_50	40620/2593	1:1.58	0.796	0.361	0.06	22.43	23.00	1.140	0.908	22.2
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.374	0.178	-0.04	22.22	23.00	1.197	0.448	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	40620/2593	1:1.58	0.225	0.104	-0.04	22.46	23.00	1.132	0.255	22.3



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Back side	20	QPSK 50_50	40620/2593	1:1.58	0.517	0.231	0.04	22.46	23.00	1.132	0.585	22.3
Left side	20	QPSK 50_50	40620/2593	1:1.58	0.736	0.302	-0.06	22.46	23.00	1.132	0.833	22.3
Top side	20	QPSK 50_50	40620/2593	1:1.58	0.145	0.079	-0.05	22.46	23.00	1.132	0.164	22.3
Left side	20	QPSK 50_50	39750/2506	1:1.58	0.405	0.192	0.01	22.09	23.00	1.233	0.499	22.3
Left side	20	QPSK 50_0	40185/2549.5	1:1.58	0.602	0.278	0.06	22.86	23.00	1.033	0.622	22.3
Left side	20	QPSK 50_50	41055/2636.5	1:1.58	0.534	0.222	0.01	22.42	23.00	1.143	0.610	22.3
Left side	20	QPSK 50_0	41490/2680	1:1.58	0.385	0.182	0.08	22.27	23.00	1.183	0.455	22.3
Hotspot Test data (Separate 10mm 100%RB) DSI3												
Left side	20	QPSK 100_0	40620/2593	1:1.58	0.750	0.323	-0.07	22.42	23.00	1.143	0.857	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	40185/2549.5	1.170	1.110	1.054	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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9.3.15 SAR Result of LTE Band 42

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) DSI1												
Left cheek	20	QPSK 1_99	42590/3500	1:1.58	0.125	0.045	-0.03	18.22	19.00	1.197	0.150	22.3
Left tilted	20	QPSK 1_99	42590/3500	1:1.58	0.137	0.047	0.01	18.22	19.00	1.197	0.164	22.3
Right cheek	20	QPSK 1_99	42590/3500	1:1.58	0.547	0.194	0.07	18.22	19.00	1.197	0.655	22.3
Right tilted	20	QPSK 1_99	42590/3500	1:1.58	0.316	0.107	-0.07	18.22	19.00	1.197	0.378	22.3
Right cheek	20	QPSK 1_99	41690/3410	1:1.58	0.771	0.275	0.05	17.79	19.00	1.321	1.019	22.3
Right cheek	20	QPSK 1_99	43490/3590	1:1.58	0.368	0.128	0.02	18.20	19.00	1.202	0.442	22.3
Right cheek	20	QPSK 1_99	42190/3460	1:1.58	0.752	0.264	0.09	18.01	19.00	1.256	0.945	22.3
		QPSK 1_0	42388/3479.8									
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	42590/3500	1:1.58	0.116	0.045	-0.06	18.27	19.00	1.183	0.137	22.3
Left tilted	20	QPSK 50_50	42590/3500	1:1.58	0.126	0.047	0.01	18.27	19.00	1.183	0.149	22.3
Right cheek	20	QPSK 50_50	42590/3500	1:1.58	0.530	0.188	0.04	18.27	19.00	1.183	0.627	22.3
Right tilted	20	QPSK 50_50	42590/3500	1:1.58	0.302	0.113	-0.05	18.27	19.00	1.183	0.357	22.3
Right cheek	20	QPSK 50_25	41690/3410	1:1.58	0.808	0.288	0.05	17.85	19.00	1.303	1.053	22.3
Right cheek-Repeated	20	QPSK 50_25	41690/3410	1:1.58	0.801	0.285	0.09	17.85	19.00	1.303	1.044	22.3
Right cheek	20	QPSK 50_50	43490/3590	1:1.58	0.374	0.120	-0.04	18.26	19.00	1.186	0.443	22.3
Head Test Data (100%RB) DSI1												
Right cheek	20	QPSK 100_0	43490/3590	1:1.58	0.634	0.223	-0.06	18.23	19.00	1.194	0.757	22.3
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	42590/3500	1:1.58	0.071	0.035	0.06	18.22	19.00	1.197	0.085	22.3
Back side	20	QPSK 1_99	42590/3500	1:1.58	0.183	0.084	0.00	18.22	19.00	1.197	0.219	21.4
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.169	0.077	0.01	17.98	19.00	1.265	0.214	22.2
		QPSK 1_99	42392/3480.2									
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	42590/3500	1:1.58	0.068	0.033	-0.05	18.27	19.00	1.183	0.080	22.3
Back side	20	QPSK 50_50	42590/3500	1:1.58	0.181	0.082	0.08	18.27	19.00	1.183	0.214	22.3
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_99	43490/3590	1:1.58	0.122	0.057	-0.01	18.22	19.00	1.197	0.146	22.3
Back side	20	QPSK 1_99	43490/3590	1:1.58	0.367	0.150	0.02	18.22	19.00	1.197	0.439	22.3
Left side	20	QPSK 1_99	43490/3590	1:1.58	0.506	0.205	-0.05	18.22	19.00	1.197	0.606	22.3
Top side	20	QPSK 1_99	43490/3590	1:1.58	0.182	0.078	0.03	18.22	19.00	1.197	0.218	22.3
Left side	20	QPSK 1_99	41690/3410	1:1.58	0.755	0.299	0.08	17.79	19.00	1.321	0.998	22.3
Left side	20	QPSK 1_99	42590/3500	1:1.58	0.291	0.126	0.03	18.20	19.00	1.202	0.350	22.3
Left side	20	QPSK 1_99	42190/3460	1:1.58	0.738	0.291	0.06	18.01	19.00	1.256	0.927	22.3
		QPSK 1_0	42388/3479.8									
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	42590/3500	1:1.58	0.146	0.060	0.02	18.27	19.00	1.183	0.173	22.3
Back side	20	QPSK 50_50	42590/3500	1:1.58	0.397	0.160	0.07	18.27	19.00	1.183	0.470	22.3



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Left side	20	QPSK 50_50	42590/3500	1:1.58	0.553	0.219	0.08	18.27	19.00	1.183	0.654	22.3
Top side	20	QPSK 50_50	42590/3500	1:1.58	0.145	0.060	-0.07	18.27	19.00	1.183	0.172	22.3
Left side	20	QPSK 50_25	41690/3410	1:1.58	0.760	0.305	-0.08	17.85	19.00	1.303	0.990	22.3
Left side	20	QPSK 50_50	43490/3590	1:1.58	0.302	0.131	0.05	18.26	19.00	1.186	0.358	22.3
Hotspot Test data (Separate 10mm 100%RB) DSI3												
Left side	20	QPSK 100_0	43490/3590	1:1.58	0.680	0.272	-0.04	18.23	19.00	1.194	0.812	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	41690/3410	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.						



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9.3.16 SAR Result of LTE Band 48

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) DSI1												
Left cheek	20	QPSK 1_99	55990/3625	1:1.58	0.177	0.070	0.01	22.86	23.00	1.033	0.183	22.3
Left tilted	20	QPSK 1_99	55990/3625	1:1.58	0.174	0.066	0.00	22.86	23.00	1.033	0.180	22.3
Right cheek	20	QPSK 1_99	55990/3625	1:1.58	0.687	0.245	0.05	22.86	23.00	1.033	0.710	22.3
Right tilted	20	QPSK 1_99	55990/3625	1:1.58	0.417	0.167	-0.07	22.86	23.00	1.033	0.431	22.3
Right cheek	20	QPSK 1_99	55340/3560	1:1.58	0.792	0.267	0.01	22.37	23.00	1.156	0.916	22.3
Right cheek	20	QPSK 1_0	56640/3690	1:1.58	0.622	0.218	0.04	22.72	23.00	1.067	0.663	22.3
Right cheek	20	QPSK 1_99	55340/3560	1:1.58	0.824	0.279	0.05	22.58	23.00	1.102	0.908	22.2
		QPSK 1_0	55538/3579.8									
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.188	0.076	-0.06	22.87	23.00	1.030	0.194	22.3
Left tilted	20	QPSK 50_50	55990/3625	1:1.58	0.189	0.072	0.02	22.87	23.00	1.030	0.195	22.3
Right cheek	20	QPSK 50_50	55990/3625	1:1.58	0.725	0.264	-0.06	22.87	23.00	1.030	0.747	22.3
Right tilted	20	QPSK 50_50	55990/3625	1:1.58	0.448	0.176	0.08	22.87	23.00	1.030	0.462	22.3
Right cheek	20	QPSK 50_50	55340/3560	1:1.58	0.816	0.275	0.08	22.42	23.00	1.143	0.933	21.3
Right cheek-Repeated	20	QPSK 50_50	55340/3560	1:1.58	0.809	0.271	-0.03	22.42	23.00	1.143	0.925	22.3
Right cheek	20	QPSK 50_25	56640/3690	1:1.58	0.630	0.223	0.05	22.75	23.00	1.059	0.667	22.3
Head Test Data (100%RB) DSI1												
Right cheek	20	QPSK 100_0	55990/3625	1:1.58	0.741	0.253	0.00	22.85	23.00	1.035	0.767	22.3
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	55990/3625	1:1.58	0.051	0.011	0.01	20.87	21.00	1.030	0.053	22.3
Back side	20	QPSK 1_99	55990/3625	1:1.58	0.105	0.043	-0.08	20.87	21.00	1.030	0.108	22.3
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.106	0.044	-0.03	20.53	21.00	1.114	0.118	22.2
		QPSK 1_99	55792/3605.2									
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.056	0.016	-0.08	20.86	21.00	1.033	0.058	22.3
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.118	0.053	0.02	20.86	21.00	1.033	0.122	22.1
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_99	55990/3625	1:1.58	0.128	0.056	0.03	21.87	22.00	1.030	0.132	22.3
Back side	20	QPSK 1_99	55990/3625	1:1.58	0.380	0.157	0.07	21.87	22.00	1.030	0.392	22.3
Left side	20	QPSK 1_99	55990/3625	1:1.58	0.426	0.169	0.06	21.87	22.00	1.030	0.439	21.3
Top side	20	QPSK 1_99	55990/3625	1:1.58	0.110	0.051	0.03	21.87	22.00	1.030	0.113	22.3
Left side	20	QPSK 1_0	55990/3625	1:1.58	0.389	0.155	0.01	21.57	22.00	1.104	0.429	22.2
		QPSK 1_99	55792/3605.2									
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.139	0.059	0.01	21.87	22.00	1.030	0.143	22.3
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.380	0.160	-0.06	21.87	22.00	1.030	0.392	22.3
Left side	20	QPSK 50_50	55990/3625	1:1.58	0.410	0.164	0.00	21.87	22.00	1.030	0.422	22.3
Top side	20	QPSK 50_50	55990/3625	1:1.58	0.131	0.057	0.07	21.87	22.00	1.030	0.135	22.3



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	55340/3560	0.816	0.809	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 ($\sim 10\%$ 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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9.3.17 SAR Result of LTE Band 66

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) DSI1												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.564	0.365	0.01	19.10	20.00	1.230	0.694	22.2
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.613	0.375	-0.06	19.10	20.00	1.230	0.754	22.2
Right cheek	20	QPSK 1_99	132322/1745	1:1	1.070	0.648	0.06	19.10	20.00	1.230	1.316	22.2
Right cheek-Repeated	20	QPSK 1_99	132322/1745	1:1	1.050	0.639	-0.05	19.10	20.00	1.230	1.292	22.2
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.802	0.445	-0.06	19.10	20.00	1.230	0.987	22.2
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.777	0.486	0.08	19.10	20.00	1.230	0.956	22.2
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.922	0.566	-0.02	19.03	20.00	1.250	1.153	22.2
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.621	0.342	0.08	19.10	20.00	1.230	0.764	22.2
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.761	0.421	0.07	19.03	20.00	1.250	0.951	22.2
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.832	0.514	0.05	19.05	20.00	1.245	1.035	22.1
		QPSK 1_0	132520/1764.8									
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.539	0.349	-0.04	19.07	20.00	1.239	0.668	22.2
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.593	0.362	-0.05	19.07	20.00	1.239	0.735	22.2
Right cheek	20	QPSK 50_50	132322/1745	1:1	1.020	0.626	0.04	19.07	20.00	1.239	1.264	22.2
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.825	0.450	-0.02	19.07	20.00	1.239	1.022	22.2
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.739	0.458	0.07	19.06	20.00	1.242	0.918	22.2
Right cheek	20	QPSK 50_25	132572/1770	1:1	0.940	0.579	-0.06	18.98	20.00	1.265	1.189	22.2
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.587	0.321	-0.06	19.06	20.00	1.242	0.729	22.2
Right tilted	20	QPSK 50_25	132572/1770	1:1	0.771	0.424	0.01	18.98	20.00	1.265	0.975	22.2
Head Test Data (100%RB) DSI1												
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.966	0.598	0.01	19.05	20.00	1.245	1.202	22.2
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.786	0.431	-0.07	19.05	20.00	1.245	0.978	22.2
Head Evaluate Data (1RB) DSI1 with Inter Band LTE Uplink CA												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.564	0.365	0.01	19.10	17.00	0.617	0.348	22.2
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.613	0.375	-0.06	19.10	17.00	0.617	0.378	22.2
Right cheek	20	QPSK 1_99	132322/1745	1:1	1.070	0.648	0.06	19.10	17.00	0.617	0.660	22.2
Right cheek-Repeated	20	QPSK 1_99	132322/1745	1:1	1.050	0.639	-0.05	19.10	17.00	0.617	0.647	22.2
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.802	0.445	-0.06	19.10	17.00	0.617	0.495	22.2
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.777	0.486	0.08	19.10	17.00	0.617	0.479	22.2
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.922	0.566	-0.02	19.03	17.00	0.627	0.578	22.2
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.621	0.342	0.08	19.10	17.00	0.617	0.383	22.2
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.761	0.421	0.07	19.03	17.00	0.627	0.477	22.2
Head Evaluate Data (50%RB) DSI1 with Inter Band LTE Uplink CA												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.539	0.349	-0.04	19.07	17.00	0.621	0.335	22.2
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.593	0.362	-0.05	19.07	17.00	0.621	0.368	22.2
Right cheek	20	QPSK 50_50	132322/1745	1:1	1.020	0.626	0.04	19.07	17.00	0.621	0.633	22.2



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Right tilted	20	QPSK 50_50	132322/1745	1:1	0.825	0.450	-0.02	19.07	17.00	0.621	0.512	22.2
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.739	0.458	0.07	19.06	17.00	0.622	0.460	22.2
Right cheek	20	QPSK 50_25	132572/1770	1:1	0.940	0.579	-0.06	18.98	17.00	0.634	0.596	22.2
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.587	0.321	-0.06	19.06	17.00	0.622	0.365	22.2
Right tilted	20	QPSK 50_25	132572/1770	1:1	0.771	0.424	0.01	18.98	17.00	0.634	0.489	22.2
Head Evaluate Data (100%RB) DSI1 with Inter Band LTE Uplink CA												
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.966	0.598	0.01	19.05	17.00	0.624	0.603	22.2
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.786	0.431	-0.07	19.05	17.00	0.624	0.490	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_99	132322/1745	1:1	0.261	0.187	0.08	22.09	23.00	1.233	0.322	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.354	0.251	-0.02	22.09	23.00	1.233	0.437	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.264	0.167	0.06	22.13	23.00	1.222	0.323	22.1
		QPSK 1_0	132520/1764.8									
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	132322/1745	1:1	0.253	0.181	0.04	22.09	23.00	1.233	0.312	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.343	0.243	-0.05	22.09	23.00	1.233	0.423	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_99	132322/1745	1:1	0.256	0.160	-0.06	21.08	22.00	1.236	0.316	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.567	0.327	0.05	21.08	22.00	1.236	0.701	22.2
Left side	20	QPSK 1_99	132322/1745	1:1	0.171	0.086	-0.03	21.08	22.00	1.236	0.211	22.2
Top side	20	QPSK 1_99	132322/1745	1:1	0.400	0.219	0.05	21.08	22.00	1.236	0.494	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.426	0.259	-0.02	21.08	22.00	1.236	0.527	22.1
		QPSK 1_0	132520/1764.8									
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_25	132322/1745	1:1	0.404	0.248	0.01	21.09	22.00	1.233	0.498	22.2
Back side	20	QPSK 50_25	132322/1745	1:1	0.657	0.403	0.06	21.09	22.00	1.233	0.810	22.2
Left side	20	QPSK 50_25	132322/1745	1:1	0.314	0.165	0.05	21.09	22.00	1.233	0.387	22.2
Top side	20	QPSK 50_25	132322/1745	1:1	0.620	0.372	0.01	21.09	22.00	1.233	0.765	22.2
Back side	20	QPSK 50_50	132072/1720	1:1	0.460	0.282	0.07	21.08	22.00	1.236	0.569	22.2
Back side	20	QPSK 50_25	132572/1770	1:1	0.713	0.445	0.03	21.01	22.00	1.256	0.896	22.2
Hotspot Test data (Separate 10mm 100%RB) DSI3												
Back side	20	QPSK 100_0	132322/1745	1:1	0.641	0.396	0.06	21.07	22.00	1.239	0.794	22.2
Hotspot Evaluate data (Separate 10mm 1RB) DSI3 with Inter Band LTE Uplink CA												
Front side	20	QPSK 1_99	132322/1745	1:1	0.256	0.160	-0.06	21.08	19.00	0.619	0.159	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.567	0.327	0.05	21.08	19.00	0.619	0.351	22.2
Left side	20	QPSK 1_99	132322/1745	1:1	0.171	0.086	-0.03	21.08	19.00	0.619	0.106	22.2
Top side	20	QPSK 1_99	132322/1745	1:1	0.400	0.219	0.05	21.08	19.00	0.619	0.248	22.2
Hotspot Evaluate data (Separate 10mm 50%RB) DSI3 with Inter Band LTE Uplink CA												
Front side	20	QPSK 50_25	132322/1745	1:1	0.404	0.248	0.01	21.09	19.00	0.618	0.250	22.2
Back side	20	QPSK 50_25	132322/1745	1:1	0.657	0.403	0.06	21.09	19.00	0.618	0.406	22.2
Left side	20	QPSK 50_25	132322/1745	1:1	0.314	0.165	0.05	21.09	19.00	0.618	0.194	22.2
Top side	20	QPSK 50_25	132322/1745	1:1	0.620	0.372	0.01	21.09	19.00	0.618	0.383	22.2
Back side	20	QPSK 50_50	132072/1720	1:1	0.460	0.282	0.07	21.08	19.00	0.619	0.285	22.2
Back side	20	QPSK 50_25	132572/1770	1:1	0.713	0.445	0.03	21.01	19.00	0.630	0.449	22.2



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Hotspot Evaluate data (Separate 10mm 100%RB) DSI3 with Inter Band LTE Uplink CA												
Back side	20	QPSK 100_0	132322/1745	1:1	0.641	0.396	0.06	21.07	19.00	0.621	0.398	22.2
Ant 3 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) DSI1												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.091	0.058	-0.01	23.95	24.50	1.135	0.103	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.014	0.008	0.01	23.95	24.50	1.135	0.016	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.079	0.050	0.00	23.95	24.50	1.135	0.090	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.011	0.005	0.06	23.95	24.50	1.135	0.012	22.2
Head Test Data (50%RB) DSI1												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.076	0.048	-0.05	22.91	23.50	1.146	0.087	22.2
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.010	0.005	-0.05	22.91	23.50	1.146	0.011	22.2
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.056	0.036	-0.02	22.91	23.50	1.146	0.064	22.2
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.007	0.003	-0.07	22.91	23.50	1.146	0.008	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	20	QPSK 1_0	132072/1720	1:1	0.012	0.006	0.05	19.91	20.50	1.146	0.014	22.2
Back side	20	QPSK 1_0	132072/1720	1:1	0.048	0.027	-0.05	19.91	20.50	1.146	0.055	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	20	QPSK 50_50	132322/1745	1:1	0.085	0.051	-0.05	19.91	20.50	1.146	0.097	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.170	0.099	0.03	19.91	20.50	1.146	0.195	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	20	QPSK 1_0	132072/1720	1:1	0.026	0.016	0.07	17.91	18.50	1.146	0.030	22.2
Back side	20	QPSK 1_0	132072/1720	1:1	0.065	0.036	-0.08	17.91	18.50	1.146	0.074	22.2
Left side	20	QPSK 1_0	132072/1720	1:1	0.015	0.007	0.02	17.91	18.50	1.146	0.017	22.2
Bottom side	20	QPSK 1_0	132072/1720	1:1	0.062	0.034	0.01	17.91	18.50	1.146	0.071	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	20	QPSK 50_50	132322/1745	1:1	0.100	0.058	-0.02	17.94	18.50	1.138	0.114	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.249	0.132	-0.04	17.94	18.50	1.138	0.283	22.2
Left side	20	QPSK 50_50	132322/1745	1:1	0.023	0.009	-0.05	17.94	18.50	1.138	0.026	22.2
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.239	0.126	0.01	17.94	18.50	1.138	0.272	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	132322/1745	1.070	1.050	1.019	N/A	N/A

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



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9.3.18 SAR Result of NR Band n2

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) DS11												
Left cheek	40	QPSK 1_108	376000/1880	100%	0.421	0.281	0.01	18.94	20.00	1.276	0.537	22.2
Left tilted	40	QPSK 1_108	376000/1880	100%	0.474	0.286	-0.03	18.94	20.00	1.276	0.605	22.2
Right cheek	40	QPSK 1_108	376000/1880	100%	0.719	0.439	0.05	18.94	20.00	1.276	0.918	22.2
Right tilted	40	QPSK 1_108	376000/1880	100%	0.551	0.319	-0.13	18.94	20.00	1.276	0.703	22.2
Head Test Data (50%RB) DS11												
Left cheek	40	QPSK 108_54	376000/1880	100%	0.421	0.281	0.01	19.02	20.00	1.253	0.528	22.2
Left tilted	40	QPSK 108_54	376000/1880	100%	0.483	0.292	-0.14	19.02	20.00	1.253	0.605	22.2
Right cheek	40	QPSK 108_54	376000/1880	100%	0.663	0.376	-0.07	19.02	20.00	1.253	0.831	22.2
Right tilted	40	QPSK 108_54	376000/1880	100%	0.649	0.370	0.00	19.02	20.00	1.253	0.813	22.2
Head Test Data (100%RB) DS11												
Right cheek	40	QPSK 216_0	376000/1880	100%	0.711	0.429	0.02	19.02	20.00	1.253	0.891	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	40	QPSK 1_108	376000/1880	100%	0.186	0.118	-0.02	22.00	23.00	1.259	0.234	22.2
Back side	40	QPSK 1_108	376000/1880	100%	0.290	0.200	0.04	22.00	23.00	1.259	0.365	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	40	QPSK 108_54	376000/1880	100%	0.193	0.122	0.13	22.08	23.00	1.236	0.239	22.2
Back side	40	QPSK 108_54	376000/1880	100%	0.272	0.170	0.15	22.08	23.00	1.236	0.336	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	40	QPSK 1_108	376000/1880	100%	0.255	0.155	-0.13	20.98	22.00	1.265	0.323	22.2
Back side	40	QPSK 1_108	376000/1880	100%	0.398	0.226	-0.05	20.98	22.00	1.265	0.503	22.2
Left side	40	QPSK 1_108	376000/1880	100%	0.215	0.106	0.13	20.98	22.00	1.265	0.272	22.2
Top side	40	QPSK 1_108	376000/1880	100%	0.443	0.253	0.04	20.98	22.00	1.265	0.560	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	40	QPSK 108_54	376000/1880	100%	0.259	0.155	-0.03	21.06	22.00	1.242	0.322	22.2
Back side	40	QPSK 108_54	376000/1880	100%	0.381	0.225	0.15	21.06	22.00	1.242	0.473	22.2
Left side	40	QPSK 108_54	376000/1880	100%	0.195	0.098	0.05	21.06	22.00	1.242	0.242	22.2
Top side	40	QPSK 108_54	376000/1880	100%	0.522	0.327	0.00	21.06	22.00	1.242	0.648	22.2



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9.3.19 SAR Result of NR Band n5

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) DS11												
Left cheek	25	QPSK 1_131	167300/836.5	100%	0.155	0.108	0.08	24.23	24.50	1.064	0.165	22.2
Left tilted	25	QPSK 1_131	167300/836.5	100%	0.082	0.061	-0.15	24.23	24.50	1.064	0.087	22.2
Right cheek	25	QPSK 1_131	167300/836.5	100%	0.261	0.213	-0.05	24.23	24.50	1.064	0.278	22.2
Right tilted	25	QPSK 1_131	167300/836.5	100%	0.121	0.091	-0.09	24.23	24.50	1.064	0.129	22.2
Head Test Data (50%RB) DS11												
Left cheek	25	QPSK 2_131	167300/836.5	100%	0.159	0.111	0.15	24.18	24.50	1.076	0.171	22.2
Left tilted	25	QPSK 2_131	167300/836.5	100%	0.083	0.062	0.03	24.18	24.50	1.076	0.089	22.2
Right cheek	25	QPSK 2_131	167300/836.5	100%	0.270	0.221	0.05	24.18	24.50	1.076	0.291	22.2
Right tilted	25	QPSK 2_131	167300/836.5	100%	0.122	0.091	-0.13	24.18	24.50	1.076	0.131	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	25	QPSK 1_131	167300/836.5	100%	0.157	0.099	0.01	24.23	24.50	1.064	0.167	22.2
Back side	25	QPSK 1_131	167300/836.5	100%	0.365	0.241	0.01	24.23	24.50	1.064	0.388	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	25	QPSK 2_131	167300/836.5	100%	0.159	0.101	0.07	24.18	24.50	1.076	0.171	22.2
Back side	25	QPSK 2_131	167300/836.5	100%	0.371	0.245	0.00	24.18	24.50	1.076	0.399	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	25	QPSK 1_131	167300/836.5	100%	0.278	0.203	-0.19	24.23	24.50	1.064	0.296	22.2
Back side	25	QPSK 1_131	167300/836.5	100%	0.532	0.387	-0.04	24.23	24.50	1.064	0.566	22.2
Right side	25	QPSK 1_131	167300/836.5	100%	0.580	0.330	-0.04	24.23	24.50	1.064	0.617	22.2
Bottom side	25	QPSK 1_131	167300/836.5	100%	0.461	0.289	-0.08	24.23	24.50	1.064	0.491	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	25	QPSK 2_131	167300/836.5	100%	0.282	0.207	0.07	24.18	24.50	1.076	0.304	22.2
Back side	25	QPSK 2_131	167300/836.5	100%	0.537	0.391	0.16	24.18	24.50	1.076	0.578	22.2
Right side	25	QPSK 2_131	167300/836.5	100%	0.572	0.325	0.18	24.18	24.50	1.076	0.616	22.2
Bottom side	25	QPSK 2_131	167300/836.5	100%	0.474	0.295	-0.02	24.18	24.50	1.076	0.510	22.2



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9.3.20 SAR Result of NR Band n7

Ant7 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) DS11												
Left cheek	50	QPSK 1 268	507000/2535	100%	0.165	0.088	-0.15	16.58	17.00	1.102	0.182	22.2
Left tilted	50	QPSK 1 268	507000/2535	100%	0.102	0.054	-0.19	16.58	17.00	1.102	0.112	22.2
Right cheek	50	QPSK 1 268	507000/2535	100%	0.630	0.276	0.05	16.58	17.00	1.102	0.694	22.2
Right tilted	50	QPSK 1 268	507000/2535	100%	0.275	0.133	0.19	16.58	17.00	1.102	0.303	22.2
Head Test Data (50%RB) DS11												
Left cheek	50	QPSK 135 67	507000/2535	100%	0.153	0.082	-0.07	16.24	17.00	1.191	0.182	22.2
Left tilted	50	QPSK 135 67	507000/2535	100%	0.098	0.051	0.03	16.24	17.00	1.191	0.117	22.2
Right cheek	50	QPSK 135 67	507000/2535	100%	0.574	0.254	0.18	16.24	17.00	1.191	0.684	22.2
Right tilted	50	QPSK 135 67	507000/2535	100%	0.260	0.125	0.19	16.24	17.00	1.191	0.310	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	50	QPSK 1 268	507000/2535	100%	0.176	0.088	-0.14	20.45	21.00	1.135	0.200	22.2
Back side	50	QPSK 1 268	507000/2535	100%	0.407	0.206	0.04	20.45	21.00	1.135	0.462	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	50	QPSK 135 67	507000/2535	100%	0.169	0.087	0.11	20.20	21.00	1.202	0.203	22.2
Back side	50	QPSK 135 67	507000/2535	100%	0.398	0.201	-0.04	20.20	21.00	1.202	0.479	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	50	QPSK 1 268	507000/2535	100%	0.281	0.132	-0.15	19.40	20.00	1.148	0.323	22.2
Back side	50	QPSK 1 268	507000/2535	100%	0.672	0.319	-0.01	19.40	20.00	1.148	0.772	22.2
Left side	50	QPSK 1 268	507000/2535	100%	0.525	0.245	0.16	19.40	20.00	1.148	0.603	22.2
Top side	50	QPSK 1 268	507000/2535	100%	0.118	0.063	-0.12	19.40	20.00	1.148	0.135	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	50	QPSK 135 67	507000/2535	100%	0.278	0.131	-0.10	19.17	20.00	1.211	0.337	22.2
Back side	50	QPSK 135 67	507000/2535	100%	0.719	0.340	0.02	19.17	20.00	1.211	0.870	22.2
Left side	50	QPSK 135 67	507000/2535	100%	0.525	0.246	-0.03	19.17	20.00	1.211	0.636	22.2
Top side	50	QPSK 135 67	507000/2535	100%	0.122	0.065	-0.10	19.17	20.00	1.211	0.148	22.2
Hotspot Test data (Separate 10mm 100%RB) DS13												
Back side	50	QPSK 135 67	507000/2535	100%	0.576	0.271	-0.18	18.26	19.00	1.186	0.683	22.2
Hotspot Evaluate data (Separate 10mm 1RB) DS13 with ENDC												
Front side	50	QPSK 1 268	507000/2535	100%	0.281	0.132	-0.15	19.40	17.00	0.575	0.162	22.2
Back side	50	QPSK 1 268	507000/2535	100%	0.672	0.319	-0.01	19.40	17.00	0.575	0.387	22.2
Left side	50	QPSK 1 268	507000/2535	100%	0.525	0.245	0.16	19.40	17.00	0.575	0.302	22.2
Top side	50	QPSK 1 268	507000/2535	100%	0.118	0.063	-0.12	19.40	17.00	0.575	0.068	22.2
Hotspot Evaluate data (Separate 10mm 50%RB) DS13 with ENDC												
Front side	50	QPSK 135 67	507000/2535	100%	0.278	0.131	-0.10	19.17	17.00	0.607	0.169	22.2
Back side	50	QPSK 135 67	507000/2535	100%	0.719	0.340	0.02	19.17	17.00	0.607	0.436	22.2
Left side	50	QPSK 135 67	507000/2535	100%	0.525	0.246	-0.03	19.17	17.00	0.607	0.319	22.2
Top side	50	QPSK 135 67	507000/2535	100%	0.122	0.065	-0.10	19.17	17.00	0.607	0.074	22.2
Hotspot Evaluate data (Separate 10mm 100%RB) DS13 with ENDC												
Back side	50	QPSK 135 67	507000/2535	100%	0.576	0.271	-0.18	18.26	16.00	0.594	0.342	22.2



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9.3.21 SAR Result of NR Band n12

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) DS11												
Left cheek	15	QPSK 1_40	141500/707.5	100%	0.054	0.041	-0.11	23.43	24.50	1.279	0.069	22.2
Left tilted	15	QPSK 1_40	141500/707.5	100%	0.052	0.037	-0.06	23.43	24.50	1.279	0.067	22.2
Right cheek	15	QPSK 1_40	141500/707.5	100%	0.163	0.139	-0.13	23.43	24.50	1.279	0.208	22.2
Right tilted	15	QPSK 1_40	141500/707.5	100%	0.071	0.053	-0.19	23.43	24.50	1.279	0.091	22.2
Head Test Data (50%RB) DS11												
Left cheek	15	QPSK 36_22	141500/707.5	100%	0.063	0.045	0.05	23.44	24.50	1.276	0.080	22.2
Left tilted	15	QPSK 36_22	141500/707.5	100%	0.054	0.041	-0.13	23.44	24.50	1.276	0.069	22.2
Right cheek	15	QPSK 36_22	141500/707.5	100%	0.168	0.142	0.07	23.44	24.50	1.276	0.214	22.2
Right tilted	15	QPSK 36_22	141500/707.5	100%	0.077	0.057	-0.11	23.44	24.50	1.276	0.098	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	15	QPSK 1_40	141500/707.5	100%	0.153	0.110	0.04	23.43	24.50	1.279	0.196	22.2
Back side	15	QPSK 1_40	141500/707.5	100%	0.266	0.219	0.11	23.43	24.50	1.279	0.340	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	15	QPSK 36_22	141500/707.5	100%	0.150	0.109	0.03	23.44	24.50	1.276	0.191	22.2
Back side	15	QPSK 36_22	141500/707.5	100%	0.272	0.222	-0.14	23.44	24.50	1.276	0.347	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	15	QPSK 1_40	141500/707.5	100%	0.162	0.106	0.02	23.43	24.50	1.279	0.207	22.2
Back side	15	QPSK 1_40	141500/707.5	100%	0.239	0.157	0.13	23.43	24.50	1.279	0.306	22.2
Right side	15	QPSK 1_40	141500/707.5	100%	0.324	0.224	0.04	23.43	24.50	1.279	0.414	22.2
Bottom side	15	QPSK 1_40	141500/707.5	100%	0.113	0.068	-0.17	23.43	24.50	1.279	0.145	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	15	QPSK 36_22	141500/707.5	100%	0.165	0.107	0.16	23.44	24.50	1.276	0.211	22.2
Back side	15	QPSK 36_22	141500/707.5	100%	0.239	0.157	0.09	23.44	24.50	1.276	0.305	22.2
Right side	15	QPSK 36_22	141500/707.5	100%	0.317	0.218	-0.15	23.44	24.50	1.276	0.404	22.2
Bottom side	15	QPSK 36_22	141500/707.5	100%	0.111	0.070	-0.04	23.44	24.50	1.276	0.142	22.2



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9.3.22 SAR Result of NR Band n41

Ant7 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) DS11												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.199	0.075	-0.16	17.65	17.80	1.035	0.206	22.2
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.089	0.046	-0.12	17.65	17.80	1.035	0.092	22.2
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.616	0.268	0.06	17.65	17.80	1.035	0.638	22.2
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.209	0.103	-0.08	17.65	17.80	1.035	0.216	22.2
Head Test Data (50%RB) DS11												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.187	0.075	-0.08	17.46	17.80	1.081	0.202	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.091	0.048	0.01	17.46	17.80	1.081	0.098	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.671	0.286	0.01	17.46	17.50	1.009	0.677	22.3
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.243	0.115	-0.03	17.46	17.80	1.081	0.263	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.138	0.069	0.00	21.63	21.80	1.040	0.144	22.2
Back side	100	QPSK 1_137	518598/2592.99	100%	0.274	0.135	-0.11	21.63	21.80	1.040	0.285	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.134	0.069	-0.11	21.42	21.80	1.091	0.146	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.316	0.164	-0.04	21.42	21.50	1.019	0.322	22.3
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.223	0.107	0.08	20.52	20.80	1.067	0.238	22.2
Back side	100	QPSK 1_137	518598/2592.99	100%	0.556	0.248	0.05	20.52	20.80	1.067	0.593	22.2
Left side	100	QPSK 1_137	518598/2592.99	100%	0.678	0.316	0.03	20.52	20.80	1.067	0.723	22.1
Top side	100	QPSK 1_137	518598/2592.99	100%	0.180	0.093	0.17	20.52	20.80	1.067	0.192	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.222	0.109	0.11	20.42	20.80	1.091	0.242	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.550	0.246	-0.05	20.42	20.80	1.091	0.600	22.2
Left side	100	QPSK 135_69	518598/2592.99	100%	0.629	0.266	-0.14	20.42	20.80	1.091	0.687	22.2
Top side	100	QPSK 135_69	518598/2592.99	100%	0.137	0.071	-0.09	20.42	20.80	1.091	0.150	22.2



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9.3.23 SAR Result of NR Band n48

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) DS11												
Left cheek	40	QPSK 1_1	641666/3624.99	100%	0.105	0.043	0.11	18.34	19.00	1.164	0.122	22.2
Left tilted	40	QPSK 1_1	641666/3624.99	100%	0.116	0.045	0.17	18.34	19.00	1.164	0.135	22.2
Right cheek	40	QPSK 1_1	641666/3624.99	100%	0.472	0.172	-0.02	18.34	19.00	1.164	0.549	22.2
Right tilted	40	QPSK 1_1	641666/3624.99	100%	0.294	0.114	0.17	18.34	19.00	1.164	0.342	22.2
Head Test Data (50%RB) DS11												
Left cheek	40	QPSK 50_28	641666/3624.99	100%	0.120	0.048	0.10	18.26	19.00	1.186	0.142	22.2
Left tilted	40	QPSK 50_28	641666/3624.99	100%	0.121	0.046	-0.14	18.26	19.00	1.186	0.143	22.2
Right cheek	40	QPSK 50_28	641666/3624.99	100%	0.510	0.184	-0.10	18.26	19.00	1.186	0.605	22.2
Right tilted	40	QPSK 50_28	641666/3624.99	100%	0.298	0.123	0.01	18.26	19.00	1.186	0.353	22.2
Right cheek	40	QPSK 50_28	638000/3570	100%	0.664	0.232	0.01	18.23	19.00	1.194	0.793	21.3
Right cheek	40	QPSK 50_28	645322/3679.98	100%	0.439	0.162	0.09	18.20	19.00	1.202	0.528	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	40	QPSK 1_1	641666/3624.99	100%	0.072	0.036	0.19	18.34	19.00	1.164	0.084	22.2
Back side	40	QPSK 1_1	641666/3624.99	100%	0.180	0.082	0.04	18.34	19.00	1.164	0.210	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	40	QPSK 50_28	641666/3624.99	100%	0.070	0.033	0.02	18.26	19.00	1.186	0.083	22.2
Back side	40	QPSK 50_28	641666/3624.99	100%	0.172	0.079	-0.05	18.26	19.00	1.186	0.204	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	40	QPSK 1_1	641666/3624.99	100%	0.164	0.071	0.17	19.31	20.00	1.172	0.192	22.2
Back side	40	QPSK 1_1	641666/3624.99	100%	0.472	0.188	-0.02	19.31	20.00	1.172	0.553	22.2
Left side	40	QPSK 1_1	641666/3624.99	100%	0.556	0.220	0.19	19.31	20.00	1.172	0.652	22.2
Top side	40	QPSK 1_1	641666/3624.99	100%	0.271	0.117	-0.09	19.31	20.00	1.172	0.318	22.2
Left side	40	QPSK 1_53	638000/3570	100%	0.702	0.289	0.07	19.28	20.00	1.180	0.829	21.3
Left side	40	QPSK 1_53	645322/3679.98	100%	0.491	0.194	0.08	19.26	20.00	1.186	0.582	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	40	QPSK 50_28	641666/3624.99	100%	0.163	0.060	-0.13	19.29	20.00	1.178	0.192	22.2
Back side	40	QPSK 50_28	641666/3624.99	100%	0.429	0.176	-0.05	19.29	20.00	1.178	0.505	22.2
Left side	40	QPSK 50_28	641666/3624.99	100%	0.534	0.222	0.06	19.29	20.00	1.178	0.629	22.2
Top side	40	QPSK 50_28	641666/3624.99	100%	0.227	0.100	0.19	19.29	20.00	1.178	0.267	22.2
Left side	40	QPSK 50_28	638000/3570	100%	0.648	0.273	-0.18	19.27	20.00	1.183	0.767	22.2
Left side	40	QPSK 50_28	645322/3679.98	100%	0.488	0.191	-0.17	19.26	20.00	1.186	0.579	22.2
Hotspot Test data (Separate 10mm 100%RB) DS13												
Left side	40	QPSK 100_0	641666/3624.99	100%	0.497	0.197	0.10	18.37	19.00	1.156	0.575	22.2



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9.3.24 SAR Result of NR Band n66

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) DS11												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.603	0.384	-0.09	19.12	20.00	1.225	0.738	22.2
Left tilted	45	QPSK 1_108	349000/1745	100%	0.667	0.400	0.17	19.12	20.00	1.225	0.817	22.2
Right cheek	45	QPSK 1_108	349000/1745	100%	1.100	0.661	-0.06	19.12	20.00	1.225	1.347	22.2
Right tilted	45	QPSK 1_108	349000/1745	100%	0.925	0.489	-0.14	19.12	20.00	1.225	1.133	22.2
Head Test Data (50%RB) DS11												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.593	0.377	0.11	19.02	20.00	1.253	0.743	22.2
Left tilted	45	QPSK 108_54	349000/1745	100%	0.659	0.395	0.05	19.02	20.00	1.253	0.826	22.2
Right cheek	45	QPSK 108_54	349000/1745	100%	1.100	0.656	0.16	19.02	20.00	1.253	1.378	22.2
Right cheek-Repeated	45	QPSK 108_54	349000/1745	100%	1.030	0.629	0.17	19.02	20.00	1.253	1.291	22.2
Right tilted	45	QPSK 108_54	349000/1745	100%	0.899	0.477	0.04	19.02	20.00	1.253	1.127	22.2
Head Test Data (100%RB) DS11												
Left tilted	45	QPSK 216_0	349000/1745	100%	0.516	0.309	-0.12	18.14	19.00	1.219	0.629	22.2
Right cheek	45	QPSK 216_0	349000/1745	100%	0.861	0.513	-0.14	18.14	19.00	1.219	1.050	22.2
Right tilted	45	QPSK 216_0	349000/1745	100%	0.711	0.378	0.11	18.14	19.00	1.219	0.867	22.2
Head Evaluate Data (1RB) DS11 with ENDC												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.603	0.384	-0.09	19.12	17.00	0.614	0.370	22.2
Left tilted	45	QPSK 1_108	349000/1745	100%	0.667	0.400	0.17	19.12	17.00	0.614	0.409	22.2
Right cheek	45	QPSK 1_108	349000/1745	100%	1.100	0.661	-0.06	19.12	17.00	0.614	0.675	22.2
Right tilted	45	QPSK 1_108	349000/1745	100%	0.925	0.489	-0.14	19.12	17.00	0.614	0.568	22.2
Head Evaluate Data (50%RB) DS11 with ENDC												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.593	0.377	0.11	19.02	17.00	0.628	0.372	22.2
Left tilted	45	QPSK 108_54	349000/1745	100%	0.659	0.395	0.05	19.02	17.00	0.628	0.414	22.2
Right cheek	45	QPSK 108_54	349000/1745	100%	1.100	0.656	0.06	19.02	17.00	0.628	0.691	22.2
Right cheek-Repeated	45	QPSK 108_54	349000/1745	100%	1.030	0.629	0.17	19.02	17.00	0.628	0.647	22.2
Right tilted	45	QPSK 108_54	349000/1745	100%	0.899	0.477	0.04	19.02	17.00	0.628	0.565	22.2
Head Evaluate Data (100%RB) DS11 with ENDC												
Left tilted	45	QPSK 216_0	349000/1745	100%	0.516	0.309	-0.12	18.14	16.00	0.611	0.315	22.2
Right cheek	45	QPSK 216_0	349000/1745	100%	0.861	0.513	-0.14	18.14	16.00	0.611	0.526	22.2
Right tilted	45	QPSK 216_0	349000/1745	100%	0.711	0.378	0.11	18.14	16.00	0.611	0.434	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	45	QPSK 1_108	349000/1745	100%	0.221	0.147	-0.09	21.95	23.00	1.274	0.281	22.2
Back side	45	QPSK 1_108	349000/1745	100%	0.257	0.181	-0.05	21.95	23.00	1.274	0.327	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	45	QPSK 108_54	349000/1745	100%	0.219	0.146	-0.03	22.02	23.00	1.253	0.274	22.2
Back side	45	QPSK 108_54	349000/1745	100%	0.250	0.178	-0.02	22.02	23.00	1.253	0.313	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	45	QPSK 1_108	349000/1745	100%	0.339	0.238	-0.14	21.07	22.00	1.239	0.420	22.2
Back side	45	QPSK 1_108	349000/1745	100%	0.515	0.362	0.18	21.07	22.00	1.239	0.638	22.2



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Left side	45	QPSK 1_108	349000/1745	100%	0.241	0.144	-0.16	21.07	22.00	1.239	0.299	22.2
Top side	45	QPSK 1_108	349000/1745	100%	0.500	0.345	-0.08	21.07	22.00	1.239	0.619	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	45	QPSK 108_54	349000/1745	100%	0.344	0.243	0.19	20.93	22.00	1.279	0.440	22.2
Back side	45	QPSK 108_54	349000/1745	100%	0.511	0.363	0.01	20.93	22.00	1.279	0.654	22.2
Left side	45	QPSK 108_54	349000/1745	100%	0.243	0.148	-0.14	20.93	22.00	1.279	0.311	22.2
Top side	45	QPSK 108_54	349000/1745	100%	0.497	0.342	0.09	20.93	22.00	1.279	0.636	22.2
Ant3 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) DSI1												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.024	0.016	0.02	23.78	24.00	1.052	0.026	22.2
Left tilted	45	QPSK 1_108	349000/1745	100%	0.005	0.003	0.08	23.78	24.00	1.052	0.005	22.2
Right cheek	45	QPSK 1_108	349000/1745	100%	0.021	0.014	-0.13	23.78	24.00	1.052	0.022	22.2
Right tilted	45	QPSK 1_108	349000/1745	100%	0.003	0.001	-0.02	23.78	24.00	1.052	0.003	22.2
Head Test Data (50%RB) DSI1												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.021	0.014	-0.13	23.73	24.00	1.064	0.022	22.2
Left tilted	45	QPSK 108_54	349000/1745	100%	0.004	0.002	0.17	23.73	24.00	1.064	0.004	22.2
Right cheek	45	QPSK 108_54	349000/1745	100%	0.021	0.014	0.13	23.73	24.00	1.064	0.022	22.2
Right tilted	45	QPSK 108_54	349000/1745	100%	0.003	0.001	0.00	23.73	24.00	1.064	0.003	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	45	QPSK 1_108	349000/1745	100%	0.045	0.030	-0.09	19.81	20.00	1.045	0.047	22.2
Back side	45	QPSK 1_108	349000/1745	100%	0.084	0.055	0.11	19.81	20.00	1.045	0.088	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	45	QPSK 108_54	349000/1745	100%	0.042	0.029	0.03	19.72	20.00	1.067	0.045	22.2
Back side	45	QPSK 108_54	349000/1745	100%	0.084	0.054	-0.15	19.72	20.00	1.067	0.089	22.2
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	45	QPSK 1_108	349000/1745	100%	0.085	0.055	0.10	17.75	18.00	1.059	0.090	22.2
Back side	45	QPSK 1_108	349000/1745	100%	0.195	0.118	0.18	17.75	18.00	1.059	0.207	22.2
Left side	45	QPSK 1_108	349000/1745	100%	0.010	0.005	-0.06	17.75	18.00	1.059	0.011	22.2
Bottom side	45	QPSK 1_108	349000/1745	100%	0.176	0.103	0.09	17.75	18.00	1.059	0.186	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	45	QPSK 108_54	349000/1745	100%	0.084	0.054	-0.03	17.71	18.00	1.069	0.090	22.2
Back side	45	QPSK 108_54	349000/1745	100%	0.193	0.113	0.03	17.71	18.00	1.069	0.206	22.2
Left side	45	QPSK 108_54	349000/1745	100%	0.008	0.004	0.08	17.71	18.00	1.069	0.009	22.2
Bottom side	45	QPSK 108_54	349000/1745	100%	0.173	0.100	0.01	17.71	18.00	1.069	0.185	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	349000/1745	1.100	1.030	1.068	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).



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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. |



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

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) DSI1												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.198	0.091	0.08	18.43	19.00	1.140	0.226	22.2
Left tilted	100	QPSK 1_271	633334/3500	100%	0.202	0.088	0.17	18.43	19.00	1.140	0.230	22.2
Right cheek	100	QPSK 1_271	633334/3500	100%	0.849	0.299	0.11	18.43	19.00	1.140	0.968	22.2
Right tilted	100	QPSK 1_271	633334/3500	100%	0.640	0.274	0.08	18.43	19.00	1.140	0.730	22.2
Head Test Data (50%RB) DSI1												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.208	0.106	0.04	18.42	19.00	1.143	0.238	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.212	0.096	0.17	18.42	19.00	1.143	0.242	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.918	0.331	0.07	18.42	19.00	1.143	1.049	22.1
Right cheek-Repeated	100	QPSK 135_69	633334/3500	100%	0.902	0.323	0.03	18.42	19.00	1.143	1.031	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.683	0.298	-0.08	18.42	19.00	1.143	0.781	22.2
Head Test Data (100%RB) DSI1												
Right cheek	100	QPSK 270_0	633334/3500	100%	0.770	0.266	-0.07	17.38	18.00	1.153	0.888	22.2
Body worn Test data (Separate 15mm 1RB) DSI2												
Front side	100	QPSK 1_271	633334/3500	100%	0.133	0.071	-0.03	18.97	19.50	1.130	0.150	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.377	0.188	-0.16	18.97	19.50	1.130	0.426	22.2
Body worn Test data (Separate 15mm 50%RB) DSI2												
Front side	100	QPSK 135_69	633334/3500	100%	0.154	0.081	0.11	18.92	19.50	1.143	0.176	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.432	0.202	0.08	18.92	19.50	1.143	0.494	22.1
Hotspot Test data (Separate 10mm 1RB) DSI3												
Front side	100	QPSK 1_271	633334/3500	100%	0.230	0.102	-0.06	18.43	19.00	1.140	0.262	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.866	0.363	-0.13	18.43	19.00	1.140	0.987	22.2
Left side	100	QPSK 1_271	633334/3500	100%	1.010	0.400	0.15	18.43	19.00	1.140	1.152	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.340	0.156	0.01	18.43	19.00	1.140	0.388	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI3												
Front side	100	QPSK 135_69	633334/3500	100%	0.257	0.116	-0.09	18.44	19.00	1.138	0.292	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.938	0.398	-0.06	18.44	19.00	1.138	1.067	22.2
Left side	100	QPSK 135_69	633334/3500	100%	1.090	0.433	0.01	18.44	19.00	1.138	1.240	22.2
Left side-Repeated	100	QPSK 135_69	633334/3500	100%	1.040	0.414	0.02	18.44	19.00	1.138	1.183	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.173	0.084	-0.01	18.44	19.00	1.138	0.197	22.2
Hotspot Test data (Separate 10mm 100%RB) DSI3												
Back side	100	QPSK 270_0	633334/3500	100%	0.694	0.323	-0.01	17.38	18.00	1.153	0.800	22.2
Left side	100	QPSK 270_0	633334/3500	100%	0.769	0.315	-0.02	17.38	18.00	1.153	0.887	22.2
Hotspot Evaluate data (Separate 10mm 1RB) DSI3 with ENDC												
Front side	100	QPSK 1_271	633334/3500	100%	0.230	0.102	-0.06	18.43	17.00	0.719	0.165	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.866	0.363	-0.13	18.43	17.00	0.719	0.623	22.2
Left side	100	QPSK 1_271	633334/3500	100%	1.010	0.400	0.15	18.43	17.00	0.719	0.727	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.340	0.156	0.01	18.43	17.00	0.719	0.245	22.2
Hotspot Evaluate data (Separate 10mm 50%RB) DSI3 with ENDC												



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Front side	100	QPSK 135_69	633334/3500	100%	0.257	0.116	-0.09	18.44	17.00	0.718	0.184	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.938	0.398	-0.06	18.44	17.00	0.718	0.673	22.2
Left side	100	QPSK 135_69	633334/3500	100%	1.090	0.433	0.01	18.44	17.00	0.718	0.782	22.2
Left side-Repeated	100	QPSK 135_69	633334/3500	100%	1.040	0.414	0.02	18.44	17.00	0.718	0.747	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.173	0.084	-0.01	18.44	17.00	0.718	0.124	22.2
Hotspot Evaluate data (Separate 10mm 100%RB) DSI3 with ENDC												
Back side	100	QPSK 270_0	633334/3500	100%	0.694	0.323	-0.01	17.38	16.00	0.728	0.505	22.2
Left side	100	QPSK 270_0	633334/3500	100%	0.769	0.315	-0.02	17.38	16.00	0.728	0.560	22.2
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) DSI2												
Back side	100	QPSK 1_271	633334/3500	100%	9.930	2.510	0.02	18.97	19.50	1.130	2.836	22.2
Left side	100	QPSK 1_271	633334/3500	100%	10.000	2.550	0.05	18.97	19.50	1.130	2.881	22.2
Left side-Repeated	100	QPSK 1_271	633334/3500	100%	9.950	2.520	0.07	18.97	19.50	1.130	2.847	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI2												
Back side	100	QPSK 135_69	633334/3500	100%	8.560	2.370	-0.11	18.92	19.50	1.143	2.709	22.2
Left side	100	QPSK 135_69	633334/3500	100%	9.540	2.190	0.03	18.92	19.50	1.143	2.503	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) DSI2												
Back side	100	QPSK 270_0	633334/3500	100%	6.790	1.970	0.17	17.81	18.50	1.172	2.309	22.2
Left side	100	QPSK 270_0	633334/3500	100%	7.450	1.720	0.04	17.81	18.50	1.172	2.016	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	633334/3500	0.918	0.902	1.018	N/A	N/A
Left side 10mm	633334/3500	1.090	1.040	1.048	N/A	N/A
Left side 0mm	633334/3500	2.550	2.520	1.012	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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9.3.26 SAR Result of NR Band n78(3700-3800)

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) DS11												
Left cheek	100	QPSK 1_1	650000/3750	100%	0.139	0.062	0.05	18.74	19.00	1.062	0.148	22.2
Left tilted	100	QPSK 1_1	650000/3750	100%	0.153	0.063	-0.10	18.74	19.00	1.062	0.162	22.2
Right cheek	100	QPSK 1_1	650000/3750	100%	0.518	0.173	0.06	18.74	19.00	1.062	0.550	21.3
Right tilted	100	QPSK 1_1	650000/3750	100%	0.365	0.118	0.00	18.74	19.00	1.062	0.388	22.2
Head Test Data (50%RB) DS11												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.144	0.058	0.08	18.53	19.00	1.114	0.160	22.2
Left tilted	100	QPSK 135_69	650000/3750	100%	0.151	0.060	0.17	18.53	19.00	1.114	0.168	22.2
Right cheek	100	QPSK 135_69	650000/3750	100%	0.441	0.144	-0.06	18.53	19.00	1.114	0.491	22.2
Right tilted	100	QPSK 135_69	650000/3750	100%	0.299	0.096	-0.06	18.53	19.00	1.114	0.333	22.2
Body worn Test data (Separate 15mm 1RB) DS12												
Front side	100	QPSK 1_1	650000/3750	100%	0.099	0.045	0.03	19.18	19.50	1.076	0.107	22.2
Back side	100	QPSK 1_1	650000/3750	100%	0.279	0.125	0.13	19.18	19.50	1.076	0.300	22.2
Body worn Test data (Separate 15mm 50%RB) DS12												
Front side	100	QPSK 135_69	650000/3750	100%	0.081	0.037	0.02	19.04	19.50	1.112	0.090	22.2
Back side	100	QPSK 135_69	650000/3750	100%	0.252	0.094	-0.11	19.04	19.50	1.112	0.280	22.2
Hotspot Test data (Separate 10mm 1RB) DS13												
Front side	100	QPSK 1_1	650000/3750	100%	0.176	0.077	0.15	18.74	19.00	1.062	0.187	22.2
Back side	100	QPSK 1_1	650000/3750	100%	0.585	0.232	0.14	18.74	19.00	1.062	0.621	22.2
Left side	100	QPSK 1_1	650000/3750	100%	0.763	0.296	0.17	18.74	19.00	1.062	0.810	21.3
Top side	100	QPSK 1_1	650000/3750	100%	0.202	0.083	-0.17	18.74	19.00	1.062	0.214	22.2
Hotspot Test data (Separate 10mm 50%RB) DS13												
Front side	100	QPSK 135_69	650000/3750	100%	0.145	0.063	0.05	18.53	19.00	1.114	0.162	22.2
Back side	100	QPSK 135_69	650000/3750	100%	0.492	0.196	-0.05	18.53	19.00	1.114	0.548	22.2
Left side	100	QPSK 135_69	650000/3750	100%	0.597	0.238	0.11	18.53	19.00	1.114	0.665	22.2
Top side	100	QPSK 135_69	650000/3750	100%	0.176	0.072	-0.03	18.53	19.00	1.114	0.196	22.2
Hotspot Test data (Separate 10mm 100%RB) DS13												
Left side	100	QPSK 270_0	650000/3750	100%	0.594	0.235	-0.16	17.52	18.00	1.117	0.663	22.2

9.3.27 SAR Result of WIFI 2.4G

Ant8 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 DSI0												
Left cheek	802.11b	1/2412	99.56%	1.004	0.483	0.265	-0.05	16.82	17.50	1.169	0.567	22.2
Left tilted	802.11b	1/2412	99.56%	1.004	0.397	0.227	-0.13	16.82	17.50	1.169	0.466	22.2
Right cheek	802.11b	1/2412	99.56%	1.004	0.204	0.125	-0.11	16.82	17.50	1.169	0.240	22.2
Right tilted	802.11b	1/2412	99.56%	1.004	0.222	0.128	0.09	16.82	17.50	1.169	0.261	22.2
Head Evaluate Data DSI3												
Left cheek	802.11b	1/2412	99.56%	1.004	0.483	0.265	-0.05	16.82	10.00	0.208	0.101	22.2
Left tilted	802.11b	1/2412	99.56%	1.004	0.397	0.227	-0.13	16.82	10.00	0.208	0.083	22.2
Right cheek	802.11b	1/2412	99.56%	1.004	0.204	0.125	-0.11	16.82	10.00	0.208	0.043	22.2
Right tilted	802.11b	1/2412	99.56%	1.004	0.222	0.128	0.09	16.82	10.00	0.208	0.046	22.2
Body worn Test data (Separate 15mm) DSI2												
Front side	802.11b	6/2437	99.56%	1.004	0.162	0.092	0.18	20.74	21.50	1.191	0.194	22.2
Back side	802.11b	6/2437	99.56%	1.004	0.243	0.130	-0.13	20.74	21.50	1.191	0.291	22.2
Hotspot Test data (Separate 10mm) DSI1												
Front side	802.11b	6/2437	99.56%	1.004	0.195	0.106	0.05	20.74	21.50	1.191	0.233	22.2
Back side	802.11b	6/2437	99.56%	1.004	0.378	0.195	-0.07	20.74	21.50	1.191	0.452	22.2
Right side	802.11b	6/2437	99.56%	1.004	0.115	0.057	0.15	20.74	21.50	1.191	0.138	22.2
Top side	802.11b	6/2437	99.56%	1.004	0.370	0.168	0.04	20.74	21.50	1.191	0.443	22.2
Hotspot Evaluate data (Separate 10mm) DSI4												
Front side	802.11b	6/2437	99.56%	1.004	0.195	0.106	0.05	20.74	12.50	0.150	0.029	22.2
Back side	802.11b	6/2437	99.56%	1.004	0.378	0.195	-0.07	20.74	12.50	0.150	0.057	22.2
Right side	802.11b	6/2437	99.56%	1.004	0.115	0.057	0.15	20.74	12.50	0.150	0.017	22.2
Top side	802.11b	6/2437	99.56%	1.004	0.370	0.168	0.04	20.74	12.50	0.150	0.056	22.2
Ant9 Test Record chain1												
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 DSI0												
Left cheek	802.11b	11/2462	99.56%	1.004	0.235	0.110	-0.04	17.24	17.50	1.062	0.251	22.2
Left tilted	802.11b	11/2462	99.56%	1.004	0.049	0.026	0.07	17.24	17.50	1.062	0.052	22.2
Right cheek	802.11b	11/2462	99.56%	1.004	0.213	0.112	-0.06	17.24	17.50	1.062	0.227	22.2
Right tilted	802.11b	11/2462	99.56%	1.004	0.014	0.004	-0.06	17.24	17.50	1.062	0.015	22.2
Head Evaluate Data DSI3												
Left cheek	802.11b	11/2462	99.56%	1.004	0.235	0.110	-0.04	17.24	10.00	0.189	0.045	22.2
Left tilted	802.11b	11/2462	99.56%	1.004	0.049	0.026	0.07	17.24	10.00	0.189	0.009	22.2
Right cheek	802.11b	11/2462	99.56%	1.004	0.213	0.112	-0.06	17.24	10.00	0.189	0.040	22.2
Right tilted	802.11b	11/2462	99.56%	1.004	0.014	0.004	-0.06	17.24	10.00	0.189	0.003	22.2
Body worn Test data (Separate 15mm) DSI2												
Front side	802.11b	6/2437	99.56%	1.004	0.087	0.045	0.06	21.24	21.50	1.062	0.093	22.2



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Back side	802.11b	6/2437	99.56%	1.004	0.181	0.093	-0.04	21.24	21.50	1.062	0.193	22.2
Hotspot Test data (Separate 10mm) DSI1												
Front side	802.11b	6/2437	99.56%	1.004	0.146	0.076	0.11	21.24	21.50	1.062	0.156	22.2
Back side	802.11b	6/2437	99.56%	1.004	0.380	0.195	-0.06	21.24	21.50	1.062	0.405	22.2
Right side	802.11b	6/2437	99.56%	1.004	0.328	0.162	0.11	21.24	21.50	1.062	0.350	22.2
Hotspot Evaluate data (Separate 10mm) DSI4												
Front side	802.11b	6/2437	99.56%	1.004	0.146	0.076	0.11	21.24	12.50	0.134	0.020	22.2
Back side	802.11b	6/2437	99.56%	1.004	0.380	0.195	-0.06	21.24	12.50	0.134	0.051	22.2
Right side	802.11b	6/2437	99.56%	1.004	0.328	0.162	0.11	21.24	12.50	0.134	0.044	22.2
MIMO 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.(℃)
Head Test Data DSI0												
Left cheek	802.11n HT40	6/2437	93.88%	1.065	0.394	0.205	-0.01	18.61	19.00	1.094	0.459	22.2
Left tilted	802.11n HT40	6/2437	93.88%	1.065	0.308	0.170	-0.18	18.61	19.00	1.094	0.359	22.2
Right cheek	802.11n HT40	6/2437	93.88%	1.065	0.152	0.090	-0.04	18.61	19.00	1.094	0.177	22.2
Right tilted	802.11n HT40	6/2437	93.88%	1.065	0.175	0.097	-0.03	18.61	19.00	1.094	0.204	22.2
Head Test Data DSI3												
Left cheek	802.11n HT40	6/2437	93.88%	1.065	0.394	0.205	-0.01	18.61	12.00	0.218	0.092	22.2
Left tilted	802.11n HT40	6/2437	93.88%	1.065	0.308	0.170	-0.18	18.61	12.00	0.218	0.072	22.2
Right cheek	802.11n HT40	6/2437	93.88%	1.065	0.152	0.090	-0.04	18.61	12.00	0.218	0.035	22.2
Right tilted	802.11n HT40	6/2437	93.88%	1.065	0.175	0.097	-0.03	18.61	12.00	0.218	0.041	22.2
Body worn Test data (Separate 15mm) DSI2												
Front side	802.11n HT20	6/2437	96.87%	1.032	0.126	0.076	0.10	22.60	23.50	1.230	0.160	22.2
Back side	802.11n HT20	6/2437	96.87%	1.032	0.238	0.142	-0.07	22.60	23.50	1.230	0.302	22.2
Hotspot Test data (Separate 10mm) DSI1												
Front side	802.11n HT20	6/2437	96.87%	1.032	0.226	0.130	0.04	22.60	23.50	1.230	0.287	22.2
Back side	802.11n HT20	6/2437	96.87%	1.032	0.481	0.249	0.05	22.60	23.50	1.230	0.611	22.2
Right side	802.11n HT20	6/2437	96.87%	1.032	0.310	0.148	-0.04	22.60	23.50	1.230	0.394	22.2
Top side	802.11n HT20	6/2437	96.87%	1.032	0.440	0.208	0.02	22.60	23.50	1.230	0.559	22.2
Hotspot Evaluate data (Separate 10mm) DSI4												
Front side	802.11n HT20	6/2437	96.87%	1.032	0.226	0.130	0.04	22.60	14.50	0.155	0.036	22.2
Back side	802.11n HT20	6/2437	96.87%	1.032	0.481	0.249	0.05	22.60	14.50	0.155	0.077	22.2
Right side	802.11n HT20	6/2437	96.87%	1.032	0.310	0.148	-0.04	22.60	14.50	0.155	0.050	22.2
Top side	802.11n HT20	6/2437	96.87%	1.032	0.440	0.208	0.02	22.60	14.50	0.155	0.070	22.2



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9.3.28 SAR Result of WIFI 5G

Ant10 Test Record chain1												
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 DSI0												
Left cheek	802.11a	52/5260	97.00%	1.031	0.489	0.179	0.03	16.68	17.00	1.076	0.543	22.1
Left tilted	802.11a	52/5260	97.00%	1.031	0.190	0.072	0.07	16.68	17.00	1.076	0.211	22.1
Right cheek	802.11a	52/5260	97.00%	1.031	0.106	0.045	-0.01	16.68	17.00	1.076	0.118	22.1
Right tilted	802.11a	52/5260	97.00%	1.031	0.099	0.037	0.18	16.68	17.00	1.076	0.110	22.1
Head Test Data of U-NII-2C DSI0												
Left cheek	802.11a	116/5580	97.00%	1.031	0.318	0.112	-0.14	16.72	17.00	1.067	0.350	22.1
Left tilted	802.11a	116/5580	97.00%	1.031	0.130	0.044	0.10	16.72	17.00	1.067	0.143	22.1
Right cheek	802.11a	116/5580	97.00%	1.031	0.091	0.039	0.17	16.72	17.00	1.067	0.100	22.1
Right tilted	802.11a	116/5580	97.00%	1.031	0.064	0.013	-0.05	16.72	17.00	1.067	0.070	22.1
Head Test Data of U-NII-3 DSI0												
Left cheek	802.11a	149/5745	97.00%	1.031	0.160	0.060	-0.06	16.31	17.00	1.172	0.193	22.1
Left tilted	802.11a	149/5745	97.00%	1.031	0.076	0.021	0.15	16.31	17.00	1.172	0.092	22.1
Right cheek	802.11a	149/5745	97.00%	1.031	0.043	0.011	-0.15	16.31	17.00	1.172	0.052	22.1
Right tilted	802.11a	149/5745	97.00%	1.031	0.044	0.013	0.07	16.31	17.00	1.172	0.053	22.1
Head Evaluate Data of U-NII-2A DSI3												
Left cheek	802.11a	52/5260	97.00%	1.031	0.489	0.179	0.03	16.68	11.50	0.303	0.153	22.1
Left tilted	802.11a	52/5260	97.00%	1.031	0.190	0.072	0.07	16.68	11.50	0.303	0.059	22.1
Right cheek	802.11a	52/5260	97.00%	1.031	0.106	0.045	-0.01	16.68	11.50	0.303	0.033	22.1
Right tilted	802.11a	52/5260	97.00%	1.031	0.099	0.037	0.18	16.68	11.50	0.303	0.031	22.1
Head Evaluate Data of U-NII-2C DSI3												
Left cheek	802.11a	116/5580	97.00%	1.031	0.318	0.112	-0.14	16.72	11.50	0.301	0.099	22.1
Left tilted	802.11a	116/5580	97.00%	1.031	0.130	0.044	0.10	16.72	11.50	0.301	0.040	22.1
Right cheek	802.11a	116/5580	97.00%	1.031	0.091	0.039	0.17	16.72	11.50	0.301	0.028	22.1
Right tilted	802.11a	116/5580	97.00%	1.031	0.064	0.013	-0.05	16.72	11.50	0.301	0.020	22.1
Head Evaluate Data of U-NII-3 DSI3												
Left cheek	802.11a	149/5745	97.00%	1.031	0.160	0.060	-0.06	16.31	11.50	0.330	0.054	22.1
Left tilted	802.11a	149/5745	97.00%	1.031	0.076	0.021	0.15	16.31	11.50	0.330	0.026	22.1
Right cheek	802.11a	149/5745	97.00%	1.031	0.043	0.011	-0.15	16.31	11.50	0.330	0.015	22.1
Right tilted	802.11a	149/5745	97.00%	1.031	0.044	0.013	0.07	16.31	11.50	0.330	0.015	22.1
Body worn Test data of U-NII-2A (Separate 15mm) DSI2												
Front side	802.11a	52/5260	97.00%	1.031	0.147	0.064	-0.02	19.65	20.00	1.084	0.164	22.1
Back side	802.11a	52/5260	97.00%	1.031	0.395	0.153	0.07	19.65	20.00	1.084	0.441	22.6
Body worn Test data of U-NII-2C (Separate 15mm) DSI2												
Front side	802.11a	116/5580	97.00%	1.031	0.143	0.033	0.10	19.71	20.00	1.069	0.158	22.1
Back side	802.11a	116/5580	97.00%	1.031	0.323	0.125	-0.07	19.71	20.00	1.069	0.356	22.1
Body worn Test data of U-NII-3 (Separate 15mm) DSI2												
Front side	802.11a	149/5745	97.00%	1.031	0.062	0.024	-0.18	19.31	20.00	1.172	0.075	22.1
Back side	802.11a	149/5745	97.00%	1.031	0.170	0.067	-0.06	19.31	20.00	1.172	0.205	22.1



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Body worn Evaluate data of U-NII-2A (Separate 15mm) DSI5												
Front side	802.11a	52/5260	97.00%	1.031	0.147	0.064	-0.02	19.65	13.00	0.216	0.033	22.1
Back side	802.11a	52/5260	97.00%	1.031	0.395	0.153	0.07	19.65	13.00	0.216	0.088	22.6
Body worn Evaluate data of U-NII-2C (Separate 15mm) DSI5												
Front side	802.11a	116/5580	97.00%	1.031	0.143	0.033	0.10	19.71	13.00	0.213	0.031	22.1
Back side	802.11a	116/5580	97.00%	1.031	0.323	0.125	-0.07	19.71	13.00	0.213	0.071	22.1
Body worn Evaluate data of U-NII-3 (Separate 15mm) DSI5												
Front side	802.11a	149/5745	97.00%	1.031	0.062	0.024	-0.18	19.31	13.00	0.234	0.015	22.1
Back side	802.11a	149/5745	97.00%	1.031	0.170	0.067	-0.06	19.31	13.00	0.234	0.041	22.1
Hotspot Test data of U-NII-1 (Separate 10mm) DSI1												
Front side	802.11a	36/5180	97.00%	1.031	0.186	0.077	0.01	19.49	20.00	1.125	0.216	22.1
Back side	802.11a	36/5180	97.00%	1.031	0.528	0.205	-0.19	19.49	20.00	1.125	0.612	22.1
Right side	802.11a	36/5180	97.00%	1.031	0.727	0.257	-0.02	19.49	20.00	1.125	0.843	22.6
Top side	802.11a	36/5180	97.00%	1.031	0.135	0.060	-0.11	19.49	20.00	1.125	0.157	22.1
Right side	802.11a	48/5240	97.00%	1.031	0.711	0.248	0.15	19.42	20.00	1.143	0.838	22.1
Hotspot Test data of U-NII-3 (Separate 10mm) DSI1												
Front side	802.11a	149/5745	97.00%	1.031	0.090	0.033	0.14	19.31	20.00	1.172	0.109	22.1
Back side	802.11a	149/5745	97.00%	1.031	0.235	0.088	-0.14	19.31	20.00	1.172	0.284	22.1
Right side	802.11a	149/5745	97.00%	1.031	0.364	0.129	0.15	19.31	20.00	1.172	0.440	22.1
Top side	802.11a	149/5745	97.00%	1.031	0.061	0.022	-0.07	19.31	20.00	1.172	0.074	22.1
Hotspot Evaluate data of U-NII-1 (Separate 10mm) DSI4												
Front side	802.11a	36/5180	97.00%	1.031	0.186	0.077	0.01	19.49	14.00	0.282	0.054	22.1
Back side	802.11a	36/5180	97.00%	1.031	0.528	0.205	-0.19	19.49	14.00	0.282	0.154	22.1
Right side	802.11a	36/5180	97.00%	1.031	0.727	0.257	-0.02	19.49	14.00	0.282	0.212	22.6
Top side	802.11a	36/5180	97.00%	1.031	0.135	0.060	-0.11	19.49	14.00	0.282	0.039	22.1
Right side	802.11a	48/5240	97.00%	1.031	0.711	0.248	0.15	19.42	14.00	0.287	0.210	22.1
Hotspot Evaluate data of U-NII-3 (Separate 10mm) DSI4												
Front side	802.11a	149/5745	97.00%	1.031	0.090	0.033	0.14	19.31	14.00	0.294	0.027	22.1
Back side	802.11a	149/5745	97.00%	1.031	0.235	0.088	-0.14	19.31	14.00	0.294	0.071	22.1
Right side	802.11a	149/5745	97.00%	1.031	0.364	0.129	0.15	19.31	14.00	0.294	0.110	22.1
Top side	802.11a	149/5745	97.00%	1.031	0.061	0.022	-0.07	19.31	14.00	0.294	0.019	22.1
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) DSI2												
Front side	802.11a	52/5260	97.00%	1.031	1.670	0.537	-0.14	19.65	20.00	1.084	0.600	22.1
Back side	802.11a	52/5260	97.00%	1.031	2.020	0.690	0.06	19.65	20.00	1.084	0.771	22.1
Right side	802.11a	52/5260	97.00%	1.031	8.800	2.050	-0.06	19.65	20.00	1.084	2.291	22.1
Right side-Repeated	802.11a	52/5260	97.00%	1.031	8.710	2.010	-0.01	19.65	20.00	1.084	2.246	22.1
Top side	802.11a	52/5260	97.00%	1.031	1.250	0.396	-0.09	19.65	20.00	1.084	0.443	22.1
Right side	802.11a	56/5280	97.00%	1.031	8.610	1.960	0.01	19.55	20.00	1.109	2.241	22.1
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) DSI2												
Front side	802.11a	116/5580	97.00%	1.031	1.160	0.349	0.09	19.71	20.00	1.069	0.385	22.1
Back side	802.11a	116/5580	97.00%	1.031	1.300	0.463	0.03	19.71	20.00	1.069	0.510	22.1



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Right side	802.11a	116/5580	97.00%	1.031	2.970	1.060	-0.19	19.71	20.00	1.069	1.168	22.1
Top side	802.11a	116/5580	97.00%	1.031	1.680	0.537	-0.17	19.71	20.00	1.069	0.592	22.1
Product specific 10gSAR Evaluate data of U-NII-2A (Separate 0mm) DSI5												
Front side	802.11a	52/5260	97.00%	1.031	1.670	0.537	-0.14	19.65	13.00	0.216	0.120	22.1
Back side	802.11a	52/5260	97.00%	1.031	2.020	0.690	0.06	19.65	13.00	0.216	0.154	22.1
Right side	802.11a	52/5260	97.00%	1.031	8.800	2.050	-0.06	19.65	13.00	0.216	0.457	22.1
Right side-Repeated	802.11a	52/5260	97.00%	1.031	8.710	2.010	-0.01	19.65	13.00	0.216	0.448	22.1
Top side	802.11a	52/5260	97.00%	1.031	1.250	0.396	-0.09	19.65	13.00	0.216	0.088	22.1
Right side	802.11a	56/5280	97.00%	1.031	8.610	1.960	0.01	19.55	13.00	0.221	0.447	22.1
Product specific 10gSAR Evaluate data of U-NII-2C (Separate 0mm) DSI5												
Front side	802.11a	116/5580	97.00%	1.031	1.160	0.349	0.09	19.71	13.00	0.213	0.077	22.1
Back side	802.11a	116/5580	97.00%	1.031	1.300	0.463	0.03	19.71	13.00	0.213	0.102	22.1
Right side	802.11a	116/5580	97.00%	1.031	2.970	1.060	-0.19	19.71	13.00	0.213	0.233	22.1
Top side	802.11a	116/5580	97.00%	1.031	1.680	0.537	-0.17	19.71	13.00	0.213	0.118	22.1
Ant12 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 DSI0												
Left cheek	802.11a	52/5260	97.00%	1.031	0.516	0.207	-0.16	16.58	17.00	1.102	0.586	22.2
Left tilted	802.11a	52/5260	97.00%	1.031	0.431	0.159	-0.06	16.58	17.00	1.102	0.489	22.2
Right cheek	802.11a	52/5260	97.00%	1.031	0.338	0.129	0.11	16.58	17.00	1.102	0.384	22.2
Right tilted	802.11a	52/5260	97.00%	1.031	0.353	0.132	0.00	16.58	17.00	1.102	0.401	22.2
Head Test Data of U-NII-2C DSI0												
Left cheek	802.11a	128/5640	97.00%	1.031	0.711	0.272	0.03	16.74	17.00	1.062	0.778	21.3
Left tilted	802.11a	128/5640	97.00%	1.031	0.463	0.165	-0.09	16.74	17.00	1.062	0.507	22.2
Right cheek	802.11a	128/5640	97.00%	1.031	0.281	0.099	-0.04	16.74	17.00	1.062	0.308	22.2
Right tilted	802.11a	128/5640	97.00%	1.031	0.265	0.089	-0.17	16.74	17.00	1.062	0.290	22.2
Head Test Data of U-NII-3 DSI0												
Left cheek	802.11a	153/5675	97.00%	1.031	0.390	0.156	-0.11	15.91	17.00	1.285	0.517	22.2
Left tilted	802.11a	153/5675	97.00%	1.031	0.281	0.106	0.06	15.91	17.00	1.285	0.372	22.2
Right cheek	802.11a	153/5675	97.00%	1.031	0.220	0.081	0.13	15.91	17.00	1.285	0.292	22.2
Right tilted	802.11a	153/5675	97.00%	1.031	0.218	0.073	0.13	15.91	17.00	1.285	0.289	22.2
Head Evaluate Data of U-NII-2A DSI3												
Left cheek	802.11a	52/5260	97.00%	1.031	0.516	0.207	-0.16	16.58	11.50	0.310	0.165	22.2
Left tilted	802.11a	52/5260	97.00%	1.031	0.431	0.159	-0.06	16.58	11.50	0.310	0.138	22.2
Right cheek	802.11a	52/5260	97.00%	1.031	0.338	0.129	0.11	16.58	11.50	0.310	0.108	22.2
Right tilted	802.11a	52/5260	97.00%	1.031	0.353	0.132	0.00	16.58	11.50	0.310	0.113	22.2
Head Evaluate Data of U-NII-2C DSI3												
Left cheek	802.11a	128/5640	97.00%	1.031	0.711	0.272	0.03	16.74	11.50	0.299	0.219	21.3
Left tilted	802.11a	128/5640	97.00%	1.031	0.463	0.165	-0.09	16.74	11.50	0.299	0.143	22.2
Right cheek	802.11a	128/5640	97.00%	1.031	0.281	0.099	-0.04	16.74	11.50	0.299	0.087	22.2
Right tilted	802.11a	128/5640	97.00%	1.031	0.265	0.089	-0.17	16.74	11.50	0.299	0.082	22.2
Head Evaluate Data of U-NII-3 DSI3												



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Left cheek	802.11a	153/5675	97.00%	1.031	0.390	0.156	-0.11	15.91	11.50	0.362	0.146	22.2
Left tilted	802.11a	153/5675	97.00%	1.031	0.281	0.106	0.06	15.91	11.50	0.362	0.105	22.2
Right cheek	802.11a	153/5675	97.00%	1.031	0.220	0.081	0.13	15.91	11.50	0.362	0.082	22.2
Right tilted	802.11a	153/5675	97.00%	1.031	0.218	0.073	0.13	15.91	11.50	0.362	0.081	22.2
Body worn Test data of U-NII-2A (Separate 15mm) DSI2												
Front side	802.11a	52/5260	97.00%	1.031	0.148	0.061	0.15	19.56	20.00	1.107	0.169	22.1
Back side	802.11a	52/5260	97.00%	1.031	0.215	0.089	0.12	19.56	20.00	1.107	0.245	22.1
Body worn Test data of U-NII-2C (Separate 15mm) DSI2												
Front side	802.11a	128/5640	97.00%	1.031	0.233	0.092	-0.13	19.87	20.00	1.030	0.248	22.1
Back side	802.11a	128/5640	97.00%	1.031	0.267	0.101	0.03	19.87	20.00	1.030	0.284	22.1
Body worn Test data of U-NII-3 (Separate 15mm) DSI2												
Front side	802.11a	153/5765	97.00%	1.031	0.151	0.059	0.18	18.88	20.00	1.294	0.201	22.1
Back side	802.11a	153/5765	97.00%	1.031	0.202	0.079	-0.13	18.88	20.00	1.294	0.270	22.1
Hotspot Test data of U-NII-1 (Separate 10mm) DSI1												
Front side	802.11a	48/5240	97.00%	1.031	0.167	0.068	-0.02	18.61	20.00	1.377	0.237	22.1
Back side	802.11a	48/5240	97.00%	1.031	0.276	0.108	-0.19	18.61	20.00	1.377	0.392	22.1
Right side	802.11a	48/5240	97.00%	1.031	0.104	0.024	-0.03	18.61	20.00	1.377	0.148	22.1
Top side	802.11a	48/5240	97.00%	1.031	0.173	0.073	0.01	18.61	20.00	1.377	0.246	22.1
Hotspot Test data of U-NII-3 (Separate 10mm) DSI1												
Front side	802.11a	153/5765	97.00%	1.031	0.198	0.080	0.09	18.88	20.00	1.294	0.264	22.1
Back side	802.11a	153/5765	97.00%	1.031	0.294	0.106	-0.12	18.88	20.00	1.294	0.392	22.1
Right side	802.11a	153/5765	97.00%	1.031	0.108	0.043	-0.13	18.88	20.00	1.294	0.144	22.1
Top side	802.11a	153/5765	97.00%	1.031	0.121	0.039	0.14	18.88	20.00	1.294	0.161	22.1
Hotspot Evaluate data of U-NII-1 (Separate 10mm) DSI4												
Front side	802.11a	48/5240	97.00%	1.031	0.167	0.068	-0.02	18.61	14.00	0.346	0.060	22.1
Back side	802.11a	48/5240	97.00%	1.031	0.276	0.108	-0.19	18.61	14.00	0.346	0.098	22.1
Right side	802.11a	48/5240	97.00%	1.031	0.104	0.024	-0.03	18.61	14.00	0.346	0.037	22.1
Top side	802.11a	48/5240	97.00%	1.031	0.173	0.073	0.01	18.61	14.00	0.346	0.062	22.1
Hotspot Evaluate data of U-NII-3 (Separate 10mm) DSI4												
Front side	802.11a	153/5765	97.00%	1.031	0.198	0.080	0.09	18.88	14.00	0.325	0.066	22.1
Back side	802.11a	153/5765	97.00%	1.031	0.294	0.106	-0.12	18.88	14.00	0.325	0.099	22.1
Right side	802.11a	153/5765	97.00%	1.031	0.108	0.043	-0.13	18.88	14.00	0.325	0.036	22.1
Top side	802.11a	153/5765	97.00%	1.031	0.121	0.039	0.14	18.88	14.00	0.325	0.041	22.1
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) DSI2												
Front side	802.11a	52/5260	97.00%	1.031	1.020	0.371	-0.05	19.56	20.00	1.107	0.423	22.1
Back side	802.11a	52/5260	97.00%	1.031	1.060	0.398	-0.18	19.56	20.00	1.107	0.454	22.1
Right side	802.11a	52/5260	97.00%	1.031	0.389	0.137	0.02	19.56	20.00	1.107	0.156	22.1
Top side	802.11a	52/5260	97.00%	1.031	1.710	0.541	-0.03	19.56	20.00	1.107	0.617	22.1
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) DSI2												
Front side	802.11a	128/5640	97.00%	1.031	2.270	0.659	0.14	19.87	20.00	1.030	0.700	22.1
Back side	802.11a	128/5640	97.00%	1.031	1.110	0.382	-0.07	19.87	20.00	1.030	0.406	22.1
Right side	802.11a	128/5640	97.00%	1.031	0.953	0.292	0.08	19.87	20.00	1.030	0.310	22.1



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Top side	802.11a	128/5640	97.00%	1.031	2.280	0.733	0.17	19.87	20.00	1.030	0.779	22.1
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A DSI0												
Left cheek	802.11ac VHT80	58/5290	88.32%	1.132	0.526	0.198	0.04	18.06	19.00	1.242	0.739	22.2
Left tilted	802.11ac VHT80	58/5290	88.32%	1.132	0.442	0.164	-0.02	18.06	19.00	1.242	0.621	22.2
Right cheek	802.11ac VHT80	58/5290	88.32%	1.132	0.318	0.121	0.14	18.06	19.00	1.242	0.447	22.2
Right tilted	802.11ac VHT80	58/5290	88.32%	1.132	0.332	0.126	0.12	18.06	19.00	1.242	0.467	22.2
Head Test Data of U-NII-2C DSI0												
Left cheek	802.11ac VHT80	122/5610	88.32%	1.132	0.572	0.219	-0.11	18.25	19.00	1.189	0.770	22.2
Left tilted	802.11ac VHT80	122/5610	88.32%	1.132	0.413	0.147	-0.16	18.25	19.00	1.189	0.556	22.2
Right cheek	802.11ac VHT80	122/5610	88.32%	1.132	0.254	0.089	0.19	18.25	19.00	1.189	0.342	22.2
Right tilted	802.11ac VHT80	122/5610	88.32%	1.132	0.226	0.077	0.13	18.25	19.00	1.189	0.304	22.2
Head Test Data of U-NII-3 DSI0												
Left cheek	802.11ac VHT80	155/5775	88.32%	1.132	0.294	0.123	0.17	17.36	19.00	1.459	0.486	22.2
Left tilted	802.11ac VHT80	155/5775	88.32%	1.132	0.205	0.080	-0.01	17.36	19.00	1.459	0.339	22.2
Right cheek	802.11ac VHT80	155/5775	88.32%	1.132	0.192	0.064	-0.06	17.36	19.00	1.459	0.317	22.2
Right tilted	802.11ac VHT80	155/5775	88.32%	1.132	0.193	0.066	-0.12	17.36	19.00	1.459	0.319	22.2
Head Evaluate Data of U-NII-2A DSI3												
Left cheek	802.11ac VHT80	58/5290	88.32%	1.132	0.526	0.198	0.04	18.06	12.50	0.278	0.166	22.2
Left tilted	802.11ac VHT80	58/5290	88.32%	1.132	0.442	0.164	-0.02	18.06	12.50	0.278	0.139	22.2
Right cheek	802.11ac VHT80	58/5290	88.32%	1.132	0.318	0.121	0.14	18.06	12.50	0.278	0.100	22.2
Right tilted	802.11ac VHT80	58/5290	88.32%	1.132	0.332	0.126	0.12	18.06	12.50	0.278	0.104	22.2
Head Evaluate Data of U-NII-2C DSI3												
Left cheek	802.11ac VHT80	122/5610	88.32%	1.132	0.572	0.219	-0.11	18.25	12.50	0.266	0.172	22.2
Left tilted	802.11ac VHT80	122/5610	88.32%	1.132	0.413	0.147	-0.16	18.25	12.50	0.266	0.124	22.2
Right cheek	802.11ac VHT80	122/5610	88.32%	1.132	0.254	0.089	0.19	18.25	12.50	0.266	0.077	22.2
Right tilted	802.11ac VHT80	122/5610	88.32%	1.132	0.226	0.077	0.13	18.25	12.50	0.266	0.068	22.2
Head Evaluate Data of U-NII-3 DSI3												
Left cheek	802.11ac VHT80	155/5775	88.32%	1.132	0.294	0.123	0.17	17.36	12.50	0.327	0.109	22.2
Left tilted	802.11ac VHT80	155/5775	88.32%	1.132	0.205	0.080	-0.01	17.36	12.50	0.327	0.076	22.2
Right cheek	802.11ac VHT80	155/5775	88.32%	1.132	0.192	0.064	-0.06	17.36	12.50	0.327	0.071	22.2
Right tilted	802.11ac VHT80	155/5775	88.32%	1.132	0.193	0.066	-0.12	17.36	12.50	0.327	0.071	22.2
Body worn Test data of U-NII-2A (Separate 15mm) DSI2												
Front side	802.11n HT20	56/5280	96.80%	1.033	0.184	0.072	-0.16	21.48	22.00	1.127	0.214	22.2
Back side	802.11n HT20	56/5280	96.80%	1.033	0.375	0.155	0.11	21.48	22.00	1.127	0.437	22.2
Body worn Test data of U-NII-2C (Separate 15mm) DSI2												
Front side	802.11n HT20	124/5620	96.80%	1.033	0.204	0.082	-0.12	21.54	22.00	1.112	0.234	22.2
Back side	802.11n HT20	124/5620	96.80%	1.033	0.253	0.103	-0.07	21.54	22.00	1.112	0.291	22.2
Body worn Test data of U-NII-3 (Separate 15mm) DSI2												
Front side	802.11n HT20	149/5745	96.80%	1.033	0.139	0.045	-0.10	20.91	22.00	1.285	0.185	22.2
Back side	802.11n HT20	149/5745	96.80%	1.033	0.204	0.081	0.12	20.91	22.00	1.285	0.271	22.2
Hotspot Test data of U-NII-1 (Separate 10mm) DSI1												



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Front side	802.11n HT20	36/5180	96.80%	1.033	0.201	0.085	0.11	20.95	22.00	1.274	0.264	22.2
Back side	802.11n HT20	36/5180	96.80%	1.033	0.525	0.203	-0.15	20.95	22.00	1.274	0.691	22.2
Right side	802.11n HT20	36/5180	96.80%	1.033	0.605	0.233	0.10	20.95	22.00	1.274	0.796	22.2
Top side	802.11n HT20	36/5180	96.80%	1.033	0.282	0.114	0.15	20.95	22.00	1.274	0.371	22.2
Hotspot Test data of U-NII-3 (Separate 10mm) DSI1												
Front side	802.11n HT20	149/5745	96.80%	1.033	0.172	0.070	0.04	20.91	22.00	1.285	0.228	22.2
Back side	802.11n HT20	149/5745	96.80%	1.033	0.261	0.100	-0.09	20.91	22.00	1.285	0.347	22.2
Right side	802.11n HT20	149/5745	96.80%	1.033	0.364	0.136	0.03	20.91	22.00	1.285	0.483	22.2
Top side	802.11n HT20	149/5745	96.80%	1.033	0.108	0.038	0.09	20.91	22.00	1.285	0.143	22.2
Hotspot Evaluate data of U-NII-1 (Separate 10mm) DSI4												
Front side	802.11n HT20	36/5180	96.80%	1.033	0.201	0.085	0.11	20.95	16.00	0.320	0.066	22.2
Back side	802.11n HT20	36/5180	96.80%	1.033	0.525	0.203	-0.15	20.95	16.00	0.320	0.173	22.2
Right side	802.11n HT20	36/5180	96.80%	1.033	0.605	0.233	0.10	20.95	16.00	0.320	0.200	22.2
Top side	802.11n HT20	36/5180	96.80%	1.033	0.282	0.114	0.15	20.95	16.00	0.320	0.093	22.2
Hotspot Evaluate data of U-NII-3 (Separate 10mm) DSI4												
Front side	802.11n HT20	149/5745	96.80%	1.033	0.172	0.070	0.04	20.91	16.00	0.323	0.057	22.2
Back side	802.11n HT20	149/5745	96.80%	1.033	0.261	0.100	-0.09	20.91	16.00	0.323	0.087	22.2
Right side	802.11n HT20	149/5745	96.80%	1.033	0.364	0.136	0.03	20.91	16.00	0.323	0.121	22.2
Top side	802.11n HT20	149/5745	96.80%	1.033	0.108	0.038	0.09	20.91	16.00	0.323	0.036	22.2
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) DSI2												
Front side	802.11n HT20	56/5280	96.80%	1.033	1.540	0.509	-0.19	21.48	22.00	1.127	0.593	22.2
Back side	802.11n HT20	56/5280	96.80%	1.033	1.850	0.707	-0.04	21.48	22.00	1.127	0.823	22.2
Right side	802.11n HT20	56/5280	96.80%	1.033	7.110	1.900	-0.10	21.48	22.00	1.127	2.212	22.2
Top side	802.11n HT20	56/5280	96.80%	1.033	2.440	0.732	0.07	21.48	22.00	1.127	0.852	22.2
Right side	802.11n HT20	52/5260	96.80%	1.033	7.050	1.870	0.01	21.47	22.00	1.130	2.183	22.2
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) DSI2												
Front side	802.11n HT20	124/5620	96.80%	1.033	1.810	0.649	-0.04	21.54	22.00	1.112	0.745	22.2
Back side	802.11n HT20	124/5620	96.80%	1.033	1.040	0.406	-0.03	21.54	22.00	1.112	0.466	22.2
Right side	802.11n HT20	124/5620	96.80%	1.033	3.140	1.060	0.12	21.54	22.00	1.112	1.217	22.2
Top side	802.11n HT20	124/5620	96.80%	1.033	1.480	0.570	0.17	21.54	22.00	1.112	0.655	22.2
Product specific 10gSAR Evaluate data of U-NII-2A (Separate 0mm) DSI5												
Front side	802.11n HT20	56/5280	96.80%	1.033	1.540	0.509	-0.19	21.48	15.00	0.225	0.118	22.2
Back side	802.11n HT20	56/5280	96.80%	1.033	1.850	0.707	-0.04	21.48	15.00	0.225	0.164	22.2
Right side	802.11n HT20	56/5280	96.80%	1.033	7.110	1.900	-0.10	21.48	15.00	0.225	0.441	22.2
Top side	802.11n HT20	56/5280	96.80%	1.033	2.440	0.732	0.07	21.48	15.00	0.225	0.170	22.2
Right side	802.11n HT20	52/5260	96.80%	1.033	7.050	1.870	0.01	21.47	15.00	0.225	0.435	22.2
Product specific 10gSAR Evaluate data of U-NII-2C (Separate 0mm) DSI5												
Front side	802.11n HT20	124/5620	96.80%	1.033	1.810	0.649	-0.04	21.54	15.00	0.222	0.149	22.2
Back side	802.11n HT20	124/5620	96.80%	1.033	1.040	0.406	-0.03	21.54	15.00	0.222	0.093	22.2
Right side	802.11n HT20	124/5620	96.80%	1.033	3.140	1.060	0.12	21.54	15.00	0.222	0.243	22.2
Top side	802.11n HT20	124/5620	96.80%	1.033	1.480	0.570	0.17	21.54	15.00	0.222	0.131	22.2



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	52/5260	2.050	2.010	1.020	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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9.3.29 SAR Result of WIFI 6E

Ant10 Test Record chain1												
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-5 DSI0												
Left cheek	802.11ax 40M	3/5965	92.55%	1.080	0.027	0.006	0.17	12.17	12.50	1.079	0.031	22.1
Left tilted	802.11ax 40M	3/5965	92.55%	1.080	0.010	0.003	0.00	12.17	12.50	1.079	0.012	22.1
Right cheek	802.11ax 40M	3/5965	92.55%	1.080	0.016	0.004	-0.16	12.17	12.50	1.079	0.019	22.1
Right tilted	802.11ax 40M	3/5965	92.55%	1.080	0.007	0.002	0.15	12.17	12.50	1.079	0.008	22.1
Head Test Data of U-NII-6 DSI0												
Left cheek	802.11ax 40M	107/6485	92.55%	1.080	0.031	0.007	-0.12	11.84	12.50	1.164	0.039	22.1
Left tilted	802.11ax 40M	107/6485	92.55%	1.080	0.009	0.003	0.05	11.84	12.50	1.164	0.011	22.1
Right cheek	802.11ax 40M	107/6485	92.55%	1.080	0.014	0.004	-0.04	11.84	12.50	1.164	0.018	22.1
Right tilted	802.11ax 40M	107/6485	92.55%	1.080	0.007	0.002	0.19	11.84	12.50	1.164	0.009	22.1
Head Test Data of U-NII-7 DSI0												
Left cheek	802.11ax 40M	115/6525	92.55%	1.080	0.031	0.007	0.10	12.03	12.50	1.114	0.037	22.1
Left tilted	802.11ax 40M	115/6525	92.55%	1.080	0.024	0.006	-0.18	12.03	12.50	1.114	0.029	22.1
Right cheek	802.11ax 40M	115/6525	92.55%	1.080	0.016	0.004	-0.02	12.03	12.50	1.114	0.019	22.1
Right tilted	802.11ax 40M	115/6525	92.55%	1.080	0.011	0.003	0.09	12.03	12.50	1.114	0.013	22.1
Left cheek	802.11ax 40M	179/6845	92.55%	1.080	0.029	0.007	0.01	11.89	12.50	1.151	0.036	22.1
Head Test Data of U-NII-8 DSI0												
Left cheek	802.11ax 40M	187/6885	92.55%	1.080	0.019	0.005	0.19	11.98	12.50	1.127	0.023	22.1
Left tilted	802.11ax 40M	187/6885	92.55%	1.080	0.008	0.002	-0.04	11.98	12.50	1.127	0.010	22.1
Right cheek	802.11ax 40M	187/6885	92.55%	1.080	0.016	0.004	-0.14	11.98	12.50	1.127	0.019	22.1
Right tilted	802.11ax 40M	187/6885	92.55%	1.080	0.005	0.001	0.04	11.98	12.50	1.127	0.006	22.1
Body worn Test data of U-NII-5 (Separate 15mm) DSI2												
Front side	802.11ax 40M	3/5965	92.55%	1.080	0.041	0.006	0.08	12.17	12.50	1.079	0.048	22.2
Back side	802.11ax 40M	3/5965	92.55%	1.080	0.063	0.015	-0.09	12.17	12.50	1.079	0.073	22.2
Body worn Test data of U-NII-6 (Separate 15mm) DSI2												
Front side	802.11ax 40M	107/6485	92.55%	1.080	0.052	0.013	0.00	11.84	12.50	1.164	0.065	22.2
Back side	802.11ax 40M	107/6485	92.55%	1.080	0.072	0.021	0.16	11.84	12.50	1.164	0.091	22.2
Body worn Test data of U-NII-7 (Separate 15mm) DSI2												
Front side	802.11ax 40M	115/6525	92.55%	1.080	0.042	0.008	0.14	12.03	12.50	1.114	0.051	22.2
Back side	802.11ax 40M	115/6525	92.55%	1.080	0.055	0.018	0.03	12.03	12.50	1.114	0.066	22.2
Back side	802.11ax 40M	179/6845	92.55%	1.080	0.053	0.018	0.16	11.89	12.50	1.151	0.066	22.2
Body worn Test data of U-NII-8 (Separate 15mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.039	0.009	0.14	11.98	12.50	1.127	0.047	22.2
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.056	0.016	0.03	11.98	12.50	1.127	0.068	22.2
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-5(Separate 0mm) DSI2												
Front side	802.11ax 40M	3/5965	92.55%	1.080	0.055	0.011	-0.19	12.17	12.50	1.079	0.013	22.1



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Back side	802.11ax 40M	3/5965	92.55%	1.080	0.048	0.012	-0.03	12.17	12.50	1.079	0.014	22.1
Right side	802.11ax 40M	3/5965	92.55%	1.080	0.163	0.044	0.12	12.17	12.50	1.079	0.051	22.1
Top side	802.11ax 40M	3/5965	92.55%	1.080	0.058	0.010	0.11	12.17	12.50	1.079	0.012	22.1
Product specific 10gSAR Test data of U-NII-6 (Separate 0mm) DSI2												
Front side	802.11ax 40M	107/6485	92.55%	1.080	0.053	0.012	0.11	11.84	12.50	1.164	0.015	22.1
Back side	802.11ax 40M	107/6485	92.55%	1.080	0.065	0.010	0.13	11.84	12.50	1.164	0.013	22.1
Right side	802.11ax 40M	107/6485	92.55%	1.080	0.066	0.016	-0.13	11.84	12.50	1.164	0.020	22.1
Top side	802.11ax 40M	107/6485	92.55%	1.080	0.066	0.013	0.07	11.84	12.50	1.164	0.016	22.1
Product specific 10gSAR Test data of U-NII-7 (Separate 0mm) DSI2												
Front side	802.11ax 40M	115/6525	92.55%	1.080	0.043	0.008	0.04	12.03	12.50	1.114	0.010	22.1
Back side	802.11ax 40M	115/6525	92.55%	1.080	0.048	0.011	0.14	12.03	12.50	1.114	0.013	22.1
Right side	802.11ax 40M	115/6525	92.55%	1.080	0.069	0.015	0.17	12.03	12.50	1.114	0.018	22.1
Top side	802.11ax 40M	115/6525	92.55%	1.080	0.058	0.009	-0.07	12.03	12.50	1.114	0.011	22.1
Right side	802.11ax 40M	179/6845	92.55%	1.080	0.069	0.016	0.05	11.89	12.50	1.151	0.020	22.1
Product specific 10gSAR Test data of U-NII-8 (Separate 0mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.073	0.013	0.06	11.98	12.50	1.127	0.016	22.1
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.060	0.012	0.00	11.98	12.50	1.127	0.015	22.1
Right side	802.11ax 40M	187/6885	92.55%	1.080	0.078	0.017	0.05	11.98	12.50	1.127	0.021	22.1
Top side	802.11ax 40M	187/6885	92.55%	1.080	0.050	0.009	0.17	11.98	12.50	1.127	0.011	22.1
Ant12 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.(℃)
Head Test Data of U-NII-5 DSI0												
Left cheek	802.11ax 40M	91/6405	92.55%	1.080	0.016	0.004	-0.12	11.30	12.50	1.318	0.023	22.1
Left tilted	802.11ax 40M	91/6405	92.55%	1.080	0.016	0.004	0.15	11.30	12.50	1.318	0.023	22.1
Right cheek	802.11ax 40M	91/6405	92.55%	1.080	0.015	0.004	0.00	11.30	12.50	1.318	0.021	22.1
Right tilted	802.11ax 40M	91/6405	92.55%	1.080	0.013	0.003	0.09	11.30	12.50	1.318	0.019	22.1
Head Test Data of U-NII-6 DSI0												
Left cheek	802.11ax 40M	99/6445	92.55%	1.080	0.020	0.005	0.16	11.70	12.50	1.202	0.026	22.1
Left tilted	802.11ax 40M	99/6445	92.55%	1.080	0.019	0.005	-0.01	11.70	12.50	1.202	0.025	22.1
Right cheek	802.11ax 40M	99/6445	92.55%	1.080	0.017	0.004	0.11	11.70	12.50	1.202	0.022	22.1
Right tilted	802.11ax 40M	99/6445	92.55%	1.080	0.013	0.003	0.10	11.70	12.50	1.202	0.017	22.1
Head Test Data of U-NII-7 DSI0												
Left cheek	802.11ax 40M	179/6845	92.55%	1.080	0.034	0.008	0.05	11.99	12.50	1.125	0.041	22.1
Left tilted	802.11ax 40M	179/6845	92.55%	1.080	0.030	0.007	0.03	11.99	12.50	1.125	0.036	22.1
Right cheek	802.11ax 40M	179/6845	92.55%	1.080	0.016	0.004	0.02	11.99	12.50	1.125	0.019	22.1
Right tilted	802.11ax 40M	179/6845	92.55%	1.080	0.018	0.006	-0.17	11.99	12.50	1.125	0.022	22.1
Left cheek	802.11ax 40M	115/6525	92.55%	1.080	0.036	0.008	0.09	11.86	12.50	1.159	0.045	22.1
Head Test Data of U-NII-8 DSI0												
Left cheek	802.11ax 40M	187/6885	92.55%	1.080	0.018	0.005	-0.04	12.22	12.50	1.067	0.021	22.1
Left tilted	802.11ax 40M	187/6885	92.55%	1.080	0.016	0.004	-0.17	12.22	12.50	1.067	0.018	22.1
Right cheek	802.11ax 40M	187/6885	92.55%	1.080	0.014	0.003	-0.10	12.22	12.50	1.067	0.016	22.1
Right tilted	802.11ax 40M	187/6885	92.55%	1.080	0.016	0.004	-0.18	12.22	12.50	1.067	0.018	22.1
Body worn Test data of U-NII-5 (Separate 15mm) DSI2												



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Front side	802.11ax 40M	91/6405	92.55%	1.080	0.064	0.013	0.13	11.30	12.50	1.318	0.091	22.1
Back side	802.11ax 40M	91/6405	92.55%	1.080	0.140	0.055	0.01	11.30	12.50	1.318	0.199	22.1
Body worn Test data of U-NII-6 (Separate 15mm) DSI2												
Front side	802.11ax 40M	99/6445	92.55%	1.080	0.057	0.026	0.08	11.70	12.50	1.202	0.074	22.1
Back side	802.11ax 40M	99/6445	92.55%	1.080	0.074	0.050	0.09	11.70	12.50	1.202	0.096	22.1
Body worn Test data of U-NII-7 (Separate 15mm) DSI2												
Front side	802.11ax 40M	179/6845	92.55%	1.080	0.067	0.017	0.12	11.99	12.50	1.125	0.081	22.1
Back side	802.11ax 40M	179/6845	92.55%	1.080	0.081	0.033	-0.06	11.99	12.50	1.125	0.098	22.1
Back side	802.11ax 40M	115/6525	92.55%	1.080	0.084	0.033	-0.19	11.86	12.50	1.159	0.105	22.1
Body worn Test data of U-NII-8 (Separate 15mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.079	0.015	-0.18	12.22	12.50	1.067	0.091	22.1
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.092	0.034	-0.01	12.22	12.50	1.067	0.106	22.1
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-5 (Separate 0mm) DSI2												
Front side	802.11ax 40M	91/6405	92.55%	1.080	0.062	0.015	0.14	11.30	12.50	1.318	0.021	22.2
Back side	802.11ax 40M	91/6405	92.55%	1.080	0.173	0.045	0.15	11.30	12.50	1.318	0.064	22.2
Right side	802.11ax 40M	91/6405	92.55%	1.080	0.051	0.010	0.06	11.30	12.50	1.318	0.014	22.2
Top side	802.11ax 40M	91/6405	92.55%	1.080	0.311	0.074	-0.04	11.30	12.50	1.318	0.105	22.2
Product specific 10gSAR Test data of U-NII-6 (Separate 0mm) DSI2												
Front side	802.11ax 40M	99/6445	92.55%	1.080	0.055	0.014	-0.13	11.70	12.50	1.202	0.018	22.2
Back side	802.11ax 40M	99/6445	92.55%	1.080	0.156	0.043	0.08	11.70	12.50	1.202	0.056	22.2
Right side	802.11ax 40M	99/6445	92.55%	1.080	0.124	0.027	-0.12	11.70	12.50	1.202	0.035	22.2
Top side	802.11ax 40M	99/6445	92.55%	1.080	0.338	0.072	0.06	11.70	12.50	1.202	0.094	22.2
Product specific 10gSAR Test data of U-NII-7 (Separate 0mm) DSI2												
Front side	802.11ax 40M	179/6845	92.55%	1.080	0.076	0.015	0.17	11.99	12.50	1.125	0.018	22.2
Back side	802.11ax 40M	179/6845	92.55%	1.080	0.161	0.044	0.16	11.99	12.50	1.125	0.053	22.2
Right side	802.11ax 40M	179/6845	92.55%	1.080	0.058	0.009	-0.17	11.99	12.50	1.125	0.011	22.2
Top side	802.11ax 40M	179/6845	92.55%	1.080	0.264	0.058	-0.02	11.99	12.50	1.125	0.070	22.2
Top side	802.11ax 40M	115/6525	92.55%	1.080	0.229	0.058	0.08	11.86	12.50	1.159	0.073	22.2
Product specific 10gSAR Test data of U-NII-8 (Separate 0mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.051	0.009	0.03	12.22	12.50	1.067	0.010	22.2
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.215	0.053	0.08	12.22	12.50	1.067	0.061	22.2
Right side	802.11ax 40M	187/6885	92.55%	1.080	0.048	0.009	-0.04	12.22	12.50	1.067	0.010	22.2
Top side	802.11ax 40M	187/6885	92.55%	1.080	0.295	0.054	0.10	12.22	12.50	1.067	0.062	22.2
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-5 DSI0												
Left cheek	802.11ax 40M	3/5965	92.55%	1.080	0.037	0.008	-0.04	14.59	15.50	1.233	0.049	22.1
Left tilted	802.11ax 40M	3/5965	92.55%	1.080	0.011	0.003	0.03	14.59	15.50	1.233	0.015	22.1
Right cheek	802.11ax 40M	3/5965	92.55%	1.080	0.007	0.002	0.19	14.59	15.50	1.233	0.009	22.1
Right tilted	802.11ax 40M	3/5965	92.55%	1.080	0.005	0.001	0.05	14.59	15.50	1.233	0.007	22.1



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Head Test Data of U-NII-6 DSI0												
Left cheek	802.11ax 40M	107/6485	92.55%	1.080	0.027	0.005	-0.02	14.78	15.50	1.180	0.034	22.1
Left tilted	802.11ax 40M	107/6485	92.55%	1.080	0.005	0.001	0.12	14.78	15.50	1.180	0.006	22.1
Right cheek	802.11ax 40M	107/6485	92.55%	1.080	0.004	0.001	-0.12	14.78	15.50	1.180	0.005	22.1
Right tilted	802.11ax 40M	107/6485	92.55%	1.080	0.005	0.001	0.02	14.78	15.50	1.180	0.006	22.1
Head Test Data of U-NII-7 DSI0												
Left cheek	802.11ax 40M	115/6525	92.55%	1.080	0.027	0.005	0.02	14.96	15.50	1.132	0.033	22.1
Left tilted	802.11ax 40M	115/6525	92.55%	1.080	0.005	0.001	0.00	14.96	15.50	1.132	0.006	22.1
Right cheek	802.11ax 40M	115/6525	92.55%	1.080	0.004	0.001	-0.04	14.96	15.50	1.132	0.005	22.1
Right tilted	802.11ax 40M	115/6525	92.55%	1.080	0.004	0.001	0.17	14.96	15.50	1.132	0.005	22.1
Left cheek	802.11ax 40M	179/6845	92.55%	1.080	0.006	0.001	0.04	14.95	15.50	1.135	0.007	22.1
Head Test Data of U-NII-8 DSI0												
Left cheek	802.11ax 40M	187/6885	92.55%	1.080	0.028	0.005	-0.15	15.11	15.50	1.094	0.033	22.1
Left tilted	802.11ax 40M	187/6885	92.55%	1.080	0.007	0.002	-0.09	15.11	15.50	1.094	0.008	22.1
Right cheek	802.11ax 40M	187/6885	92.55%	1.080	0.004	0.001	0.14	15.11	15.50	1.094	0.005	22.1
Right tilted	802.11ax 40M	187/6885	92.55%	1.080	0.008	0.001	0.19	15.11	15.50	1.094	0.009	22.1
Body worn Test data of U-NII-5 (Separate 15mm) DSI2												
Front side	802.11ax 40M	3/5965	92.55%	1.080	0.086	0.020	0.18	14.59	15.50	1.233	0.115	22.1
Back side	802.11ax 40M	3/5965	92.55%	1.080	0.104	0.038	0.02	14.59	15.50	1.233	0.139	22.1
Body worn Test data of U-NII-6 (Separate 15mm) DSI2												
Front side	802.11ax 40M	107/6485	92.55%	1.080	0.067	0.018	0.06	14.78	15.50	1.180	0.085	22.1
Back side	802.11ax 40M	107/6485	92.55%	1.080	0.081	0.042	-0.15	14.78	15.50	1.180	0.103	22.1
Body worn Test data of U-NII-7 (Separate 15mm) DSI2												
Front side	802.11ax 40M	115/6525	92.55%	1.080	0.080	0.017	0.00	14.96	15.50	1.132	0.098	22.1
Back side	802.11ax 40M	115/6525	92.55%	1.080	0.106	0.029	-0.06	14.96	15.50	1.132	0.130	22.1
Back side	802.11ax 40M	179/6845	92.55%	1.080	0.116	0.030	0.04	14.95	15.50	1.135	0.142	22.1
Body worn Test data of U-NII-8 (Separate 15mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.058	0.012	0.08	15.11	15.50	1.094	0.069	22.1
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.073	0.040	-0.12	15.11	15.50	1.094	0.086	22.1
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-5 (Separate 0mm) DSI2												
Front side	802.11ax 40M	3/5965	92.55%	1.080	0.109	0.030	0.00	14.59	15.50	1.233	0.040	22.2
Back side	802.11ax 40M	3/5965	92.55%	1.080	0.124	0.030	0.03	14.59	15.50	1.233	0.040	22.2
Right side	802.11ax 40M	3/5965	92.55%	1.080	0.227	0.057	0.13	14.59	15.50	1.233	0.076	22.2
Top side	802.11ax 40M	3/5965	92.55%	1.080	0.378	0.083	-0.06	14.59	15.50	1.233	0.111	22.2
Product specific 10gSAR Test data of U-NII-6 (Separate 0mm) DSI2												
Front side	802.11ax 40M	107/6485	92.55%	1.080	0.117	0.027	-0.14	14.78	15.50	1.180	0.034	22.2
Back side	802.11ax 40M	107/6485	92.55%	1.080	0.143	0.043	0.00	14.78	15.50	1.180	0.055	22.2
Right side	802.11ax 40M	107/6485	92.55%	1.080	0.091	0.023	-0.17	14.78	15.50	1.180	0.029	22.2
Top side	802.11ax 40M	107/6485	92.55%	1.080	0.219	0.056	0.05	14.78	15.50	1.180	0.071	22.2
Product specific 10gSAR Test data of U-NII-7 (Separate 0mm) DSI2												
Front side	802.11ax 40M	115/6525	92.55%	1.080	0.056	0.015	0.15	14.96	15.50	1.132	0.018	22.2
Back side	802.11ax 40M	115/6525	92.55%	1.080	0.176	0.044	-0.05	14.96	15.50	1.132	0.054	22.2



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Right side	802.11ax 40M	115/6525	92.55%	1.080	0.089	0.023	0.09	14.96	15.50	1.132	0.028	22.2
Top side	802.11ax 40M	115/6525	92.55%	1.080	0.183	0.056	0.01	14.96	15.50	1.132	0.069	22.2
Top side	802.11ax 40M	179/6845	92.55%	1.080	0.264	0.060	-0.11	14.95	15.50	1.135	0.074	22.2
Product specific 10gSAR Test data of U-NII-8 (Separate 0mm) DSI2												
Front side	802.11ax 40M	187/6885	92.55%	1.080	0.067	0.014	-0.10	15.11	15.50	1.094	0.017	22.2
Back side	802.11ax 40M	187/6885	92.55%	1.080	0.257	0.065	0.08	15.11	15.50	1.094	0.077	22.2
Right side	802.11ax 40M	187/6885	92.55%	1.080	0.079	0.017	-0.17	15.11	15.50	1.094	0.020	22.2
Top side	802.11ax 40M	187/6885	92.55%	1.080	0.414	0.079	0.18	15.11	15.50	1.094	0.093	22.2



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9.3.30 SAR Result of BT

Ant8 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	76.78%	1.302	0.075	0.042	0.11	12.13	13.00	1.222	0.119	22.2
Left tilted	DH5	39/2441	76.78%	1.302	0.104	0.055	-0.05	12.13	13.00	1.222	0.165	22.2
Right cheek	DH5	39/2441	76.78%	1.302	0.040	0.022	0.02	12.13	13.00	1.222	0.064	22.2
Right tilted	DH5	39/2441	76.78%	1.302	0.045	0.024	0.17	12.13	13.00	1.222	0.072	22.2
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	76.78%	1.302	0.003	0.002	-0.05	12.13	13.00	1.222	0.005	22.2
Back side	DH5	39/2441	76.78%	1.302	0.015	0.008	-0.06	12.13	13.00	1.222	0.024	22.2
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	76.78%	1.302	0.006	0.003	0.12	12.13	13.00	1.222	0.010	22.2
Back side	DH5	39/2441	76.78%	1.302	0.038	0.021	0.07	12.13	13.00	1.222	0.060	22.2
Right side	DH5	39/2441	76.78%	1.302	0.004	0.002	0.03	12.13	13.00	1.222	0.006	22.2
Top side	DH5	39/2441	76.78%	1.302	0.034	0.019	0.14	12.13	13.00	1.222	0.054	22.2



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9.4 Measurement of PD Data

9.5 PD Result of Wifi 6E

Wi-Fi 6E PD Test Record MIMO															
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (A)	Duty Cycle	Duty Cycle Scaled factor	iPDn	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor for measurement uncertainty	Tune up Scaled factor	Scaled PD 4cm ² (W/m ²)
Power Density Test DATA															
Front side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	/	/	0.13	0.03	15.11	15.50	1.5493	1.094	0.242
Back side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	10.20	-0.88	4.91	0.07	15.11	15.50	1.5493	1.094	8.988
Back side	802.11ax HEW40	187/6885	8.7	0.0625	92.55%	1.08	12.50		2.40	-0.01	15.11	15.50	1.5493	1.094	4.393
Left side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	/	/	0.07	0.02	15.11	15.50	1.5493	1.094	0.128
Right side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	/	/	0.69	0.05	15.11	15.50	1.5493	1.094	1.265
Top side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	/	/	2.40	0.01	15.11	15.50	1.5493	1.094	4.393
Bottom side	802.11ax HEW40	187/6885	2	0.0625	92.55%	1.08	/	/	0.11	0.03	15.11	15.50	1.5493	1.094	0.201
Back side	802.11ax HEW40	3/5965	2	0.0625	92.55%	1.08	/	/	1.44	0.06	14.59	15.50	1.5493	1.233	2.971
Back side	802.11ax HEW40	107/6485	2	0.0625	92.55%	1.08	/	/	3.51	0.07	14.78	15.50	1.5493	1.180	6.932
Back side	802.11ax HEW40	115/6525	2	0.0625	92.55%	1.08	/	/	2.58	0.00	14.96	15.50	1.5493	1.132	4.889
Back side	802.11ax HEW40	179/6845	2	0.0625	92.55%	1.08	/	/	3.93	-0.01	14.95	15.50	1.5493	1.135	7.464

9.6 Multiple Transmitter Evaluation

9.6.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body worn	Hotspot	Product specific 10gSAR
1	Cellular+BT	Yes	Yes	Yes	Yes
2	Cellular+WiFi2.4G MIMO+BT	Yes	Yes	Yes	Yes
3	Cellular+WiFi 5G/6G MIMO+BT	Yes	Yes	Yes	Yes
4	Cellular+WiFi2.4G Ant8+WiFi 5G/6G Ant10+BT	Yes	Yes	Yes	Yes
5	Cellular+WiFi2.4G Ant8+WiFi 5G/6G Ant12+BT	Yes	Yes	Yes	Yes
6	Cellular+WiFi2.4G Ant9+WiFi 5G/6G Ant10+BT	Yes	Yes	Yes	Yes
7	Cellular+WiFi2.4G Ant9+WiFi 5G/6G Ant12+BT	Yes	Yes	Yes	Yes
8	Cellular+BT+NFC	/	/	/	Yes
9	Cellular+WiFi2.4G MIMO+BT+NFC	/	/	/	Yes
10	Cellular+WiFi 5G/6G MIMO+BT+NFC	/	/	/	Yes
11	Cellular+WiFi2.4G Ant8+WiFi 5G/6G Ant10+BT+NFC	/	/	/	Yes
12	Cellular+WiFi2.4G Ant8+WiFi 5G/6G Ant12+BT+NFC	/	/	/	Yes
13	Cellular+WiFi2.4G Ant9+WiFi 5G/6G Ant10+BT+NFC	/	/	/	Yes
14	Cellular+WiFi2.4G Ant9+WiFi 5G/6G Ant12+BT+NFC	/	/	/	Yes

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9.6.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)								Summed SAR						
		WWAN MAX SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT							
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8
GSM850	Left cheek	0.549	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.668	0.760	0.840	0.922	0.988	0.866	0.932
	Left tilted	0.243	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.408	0.480	0.547	0.550	0.634	0.476	0.560
	Right cheek	0.549	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.613	0.648	0.713	0.689	0.764	0.686	0.761
	Right tilted	0.360	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.432	0.473	0.536	0.509	0.591	0.466	0.548
GSM1900	Left cheek	0.412	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.531	0.623	0.703	0.785	0.851	0.729	0.795
	Left tilted	0.504	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.669	0.741	0.808	0.811	0.895	0.737	0.821
	Right cheek	0.934	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.998	1.033	1.098	1.074	1.149	1.071	1.146
	Right tilted	0.702	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.774	0.815	0.878	0.851	0.933	0.808	0.890
WB2	Left cheek	0.539	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.658	0.750	0.830	0.912	0.978	0.856	0.922
	Left tilted	0.625	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.790	0.862	0.929	0.932	1.016	0.858	0.942
	Right cheek	1.356	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.420	1.455	1.520	1.496	1.571	1.493	1.568
	Right tilted	1.356	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.428	1.469	1.532	1.505	1.587	1.462	1.544
WB4	Left cheek	0.537	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.656	0.748	0.828	0.910	0.976	0.854	0.920
	Left tilted	0.569	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.734	0.806	0.873	0.876	0.960	0.802	0.886
	Right cheek	0.984	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.048	1.083	1.148	1.124	1.199	1.121	1.196
	Right tilted	0.797	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.869	0.910	0.973	0.946	1.028	0.903	0.985
WB5	Left cheek	0.270	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.389	0.481	0.561	0.643	0.709	0.587	0.653
	Left tilted	0.135	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.300	0.372	0.439	0.442	0.526	0.368	0.452
	Right cheek	0.328	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.392	0.427	0.492	0.468	0.543	0.465	0.540
	Right tilted	0.195	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.267	0.308	0.371	0.344	0.426	0.301	0.383
LTE B7	Left cheek	0.135	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.254	0.346	0.426	0.508	0.574	0.452	0.518
	Left tilted	0.079	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.244	0.316	0.383	0.386	0.470	0.312	0.396
	Right cheek	0.474	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.538	0.573	0.638	0.614	0.689	0.611	0.686
	Right tilted	0.196	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.268	0.309	0.372	0.345	0.427	0.302	0.384
LTE B12/17	Left cheek	0.191	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.310	0.402	0.482	0.564	0.630	0.508	0.574
	Left tilted	0.107	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.272	0.344	0.411	0.414	0.498	0.340	0.424
	Right cheek	0.205	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.269	0.304	0.369	0.345	0.420	0.342	0.417
	Right tilted	0.143	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.215	0.256	0.319	0.292	0.374	0.249	0.331
LTE B13	Left cheek	0.312	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.431	0.523	0.603	0.685	0.751	0.629	0.695
	Left tilted	0.168	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.333	0.405	0.472	0.475	0.559	0.401	0.485
	Right cheek	0.379	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.443	0.478	0.543	0.519	0.594	0.516	0.591
	Right tilted	0.236	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.308	0.349	0.412	0.385	0.467	0.342	0.424
LTE B25/2	Left cheek	0.483	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.602	0.694	0.774	0.856	0.922	0.800	0.866
	Left tilted	0.567	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.732	0.804	0.871	0.874	0.958	0.800	0.884
	Right cheek	0.944	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.008	1.043	1.108	1.084	1.159	1.081	1.156
	Right tilted	0.790	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.862	0.903	0.966	0.939	1.021	0.896	0.978
LTE B26/5	Left cheek	0.229	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.348	0.440	0.520	0.602	0.668	0.546	0.612
	Left tilted	0.120	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.285	0.357	0.424	0.427	0.511	0.353	0.437
	Right cheek	0.289	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.353	0.388	0.453	0.429	0.504	0.426	0.501
	Right tilted	0.174	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.246	0.287	0.350	0.323	0.405	0.280	0.362
LTE B41/38	Left cheek	0.375	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.494	0.586	0.666	0.748	0.814	0.692	0.758
	Left tilted	0.171	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.336	0.408	0.475	0.478	0.562	0.404	0.488



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	Right cheek	1.375	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.439	1.474	1.539	1.515	1.590	1.512	1.587
	Right tilted	0.385	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.457	0.498	0.561	0.534	0.616	0.491	0.573
LTE B42	Left cheek	0.150	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.269	0.361	0.441	0.523	0.589	0.467	0.533
	Left tilted	0.164	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.329	0.401	0.468	0.471	0.555	0.397	0.481
	Right cheek	1.053	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.117	1.152	1.217	1.193	1.268	1.190	1.265
	Right tilted	0.378	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.450	0.491	0.554	0.527	0.609	0.484	0.566
LTE B48	Left cheek	0.194	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.313	0.405	0.485	0.567	0.633	0.511	0.577
	Left tilted	0.195	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.360	0.432	0.499	0.502	0.586	0.428	0.512
	Right cheek	0.933	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.997	1.032	1.097	1.073	1.148	1.070	1.145
	Right tilted	0.462	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.534	0.575	0.638	0.611	0.693	0.568	0.650
LTE B66/4	Left cheek	0.694	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.813	0.905	0.985	1.067	1.133	1.011	1.077
	Left tilted	0.754	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.919	0.991	1.058	1.061	1.145	0.987	1.071
	Right cheek	1.316	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.380	1.415	1.480	1.456	1.531	1.453	1.528
	Right tilted	1.022	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.094	1.135	1.198	1.171	1.253	1.128	1.210
N2	Left cheek	0.537	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.656	0.748	0.828	0.910	0.976	0.854	0.920
	Left tilted	0.605	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.770	0.842	0.909	0.912	0.996	0.838	0.922
	Right cheek	0.918	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.982	1.017	1.082	1.058	1.133	1.055	1.130
	Right tilted	0.813	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.885	0.926	0.989	0.962	1.044	0.919	1.001
N7	Left cheek	0.182	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.301	0.393	0.473	0.555	0.621	0.499	0.565
	Left tilted	0.117	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.282	0.354	0.421	0.424	0.508	0.350	0.434
	Right cheek	0.694	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.758	0.793	0.858	0.834	0.909	0.831	0.906
	Right tilted	0.310	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.382	0.423	0.486	0.459	0.541	0.416	0.498
N41/38	Left cheek	0.206	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.325	0.417	0.497	0.579	0.645	0.523	0.589
	Left tilted	0.098	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.263	0.335	0.402	0.405	0.489	0.331	0.415
	Right cheek	0.677	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.741	0.776	0.841	0.817	0.892	0.814	0.889
	Right tilted	0.263	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.335	0.376	0.439	0.412	0.494	0.369	0.451
N48	Left cheek	0.142	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.261	0.353	0.433	0.515	0.581	0.459	0.525
	Left tilted	0.143	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.308	0.380	0.447	0.450	0.534	0.376	0.460
	Right cheek	0.793	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.857	0.892	0.957	0.933	1.008	0.930	1.005
	Right tilted	0.353	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.425	0.466	0.529	0.502	0.584	0.459	0.541
N66	Left cheek	0.743	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.862	0.954	1.034	1.116	1.182	1.060	1.126
	Left tilted	0.826	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.991	1.063	1.130	1.133	1.217	1.059	1.143
	Right cheek	1.378	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.442	1.477	1.542	1.518	1.593	1.515	1.590
	Right tilted	1.133	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.205	1.246	1.309	1.282	1.364	1.239	1.321
N78	Left cheek	0.238	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.357	0.449	0.529	0.611	0.677	0.555	0.621
	Left tilted	0.242	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.407	0.479	0.546	0.549	0.633	0.475	0.559
	Right cheek	1.049	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.113	1.148	1.213	1.189	1.264	1.186	1.261
	Right tilted	0.781	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.853	0.894	0.957	0.930	1.012	0.887	0.969

Test position		SARmax (W/kg)								Summed SAR						
		Inter-band UL CA	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT							
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8
CA_2A-4A	Left cheek	0.519	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.638	0.730	0.810	0.892	0.958	0.836	0.902
	Left tilted	0.586	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.751	0.823	0.890	0.893	0.977	0.819	0.903
	Right cheek	0.973	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.037	1.072	1.137	1.113	1.188	1.110	1.185
	Right tilted	0.801	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.873	0.914	0.977	0.950	1.032	0.907	0.989
CA_2A-5A	Left cheek	0.712	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.831	0.923	1.003	1.085	1.151	1.029	1.095
	Left tilted	0.687	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.852	0.924	0.991	0.994	1.078	0.920	1.004
	Right cheek	1.233	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.297	1.332	1.397	1.373	1.448	1.370	1.445



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	Right tilted	0.964	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.036	1.077	1.140	1.113	1.195	1.070	1.152
CA_2A-7A	Left cheek	0.673	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.792	0.884	0.964	1.046	1.112	0.990	1.056
	Left tilted	0.645	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.810	0.882	0.949	0.952	1.036	0.878	0.962
	Right cheek	1.056	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.120	1.155	1.220	1.196	1.271	1.193	1.268
	Right tilted	0.865	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.937	0.978	1.041	1.014	1.096	0.971	1.053
CA_2A-66A	Left cheek	0.586	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.705	0.797	0.877	0.959	1.025	0.903	0.969
	Left tilted	0.583	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.748	0.820	0.887	0.890	0.974	0.816	0.900
	Right cheek	1.034	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.098	1.133	1.198	1.174	1.249	1.171	1.246
	Right tilted	0.802	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.874	0.915	0.978	0.951	1.033	0.908	0.990
CA_4A-5A	Left cheek	0.577	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.696	0.788	0.868	0.950	1.016	0.894	0.960
	Left tilted	0.498	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.663	0.735	0.802	0.805	0.889	0.731	0.815
	Right cheek	0.949	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.013	1.048	1.113	1.089	1.164	1.086	1.161
	Right tilted	0.686	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.758	0.799	0.862	0.835	0.917	0.792	0.874
CA_4A-7A	Left cheek	0.538	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.657	0.749	0.829	0.911	0.977	0.855	0.921
	Left tilted	0.456	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.621	0.693	0.760	0.763	0.847	0.689	0.773
	Right cheek	0.772	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.836	0.871	0.936	0.912	0.987	0.909	0.984
	Right tilted	0.587	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.659	0.700	0.763	0.736	0.818	0.693	0.775
CA_5A-7A	Left cheek	0.364	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.483	0.575	0.655	0.737	0.803	0.681	0.747
	Left tilted	0.199	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.364	0.436	0.503	0.506	0.590	0.432	0.516
	Right cheek	0.763	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.827	0.862	0.927	0.903	0.978	0.900	0.975
	Right tilted	0.370	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.442	0.483	0.546	0.519	0.601	0.476	0.558
CA_5A-66A	Left cheek	0.577	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.696	0.788	0.868	0.950	1.016	0.894	0.960
	Left tilted	0.498	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.663	0.735	0.802	0.805	0.889	0.731	0.815
	Right cheek	0.949	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.013	1.048	1.113	1.089	1.164	1.086	1.161
	Right tilted	0.686	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.758	0.799	0.862	0.835	0.917	0.792	0.874
CA_12A-66A	Left cheek	0.539	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.658	0.750	0.830	0.912	0.978	0.856	0.922
	Left tilted	0.485	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.650	0.722	0.789	0.792	0.876	0.718	0.802
	Right cheek	0.865	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.929	0.964	1.029	1.005	1.080	1.002	1.077
	Right tilted	0.655	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.727	0.768	0.831	0.804	0.886	0.761	0.843
CA_48A-66A	Left cheek	0.297	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.416	0.508	0.588	0.670	0.736	0.614	0.680
	Left tilted	0.211	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.376	0.448	0.515	0.518	0.602	0.444	0.528
	Right cheek	1.023	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.087	1.122	1.187	1.163	1.238	1.160	1.235
	Right tilted	0.474	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.546	0.587	0.650	0.623	0.705	0.580	0.662

Test position		SARmax (W/kg)								Summed SAR							
		EN-DC Max SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT								
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8	
DC_5A_n2A	Left cheek	0.766	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.885	0.977	1.057	1.139	1.205	1.083	1.149	
	Left tilted	0.725	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.890	0.962	1.029	1.032	1.116	0.958	1.042	
	Right cheek	1.207	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.271	1.306	1.371	1.347	1.422	1.344	1.419	
	Right tilted	0.987	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.059	1.100	1.163	1.136	1.218	1.093	1.175	
DC_12A_n2A	Left cheek	0.728	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.847	0.939	1.019	1.101	1.167	1.045	1.111	
	Left tilted	0.712	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.877	0.949	1.016	1.019	1.103	0.945	1.029	
	Right cheek	1.123	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.187	1.222	1.287	1.263	1.338	1.260	1.335	
	Right tilted	0.956	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.028	1.069	1.132	1.105	1.187	1.062	1.144	
DC_66A_n2A	Left cheek	0.640	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.759	0.851	0.931	1.013	1.079	0.957	1.023	
	Left tilted	0.621	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.786	0.858	0.925	0.928	1.012	0.854	0.938	
	Right cheek	1.008	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.072	1.107	1.172	1.148	1.223	1.145	1.220	



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	Right tilted	0.825	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.897	0.938	1.001	0.974	1.056	0.931	1.013
DC_2A_n5A	Left cheek	0.284	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.403	0.495	0.575	0.657	0.723	0.601	0.667
	Left tilted	0.139	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.304	0.376	0.443	0.446	0.530	0.372	0.456
	Right cheek	0.368	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.432	0.467	0.532	0.508	0.583	0.505	0.580
	Right tilted	0.178	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.250	0.291	0.354	0.327	0.409	0.284	0.366
DC_5A_n7A	Left cheek	0.411	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.530	0.622	0.702	0.784	0.850	0.728	0.794
	Left tilted	0.237	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.402	0.474	0.541	0.544	0.628	0.470	0.554
	Right cheek	0.983	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.047	1.082	1.147	1.123	1.198	1.120	1.195
	Right tilted	0.484	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.556	0.597	0.660	0.633	0.715	0.590	0.672
DC_66A_n7A	Left cheek	0.285	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.404	0.496	0.576	0.658	0.724	0.602	0.668
	Left tilted	0.133	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.298	0.370	0.437	0.440	0.524	0.366	0.450
	Right cheek	0.784	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.848	0.883	0.948	0.924	0.999	0.921	0.996
	Right tilted	0.322	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.394	0.435	0.498	0.471	0.553	0.428	0.510
DC_2A_n12A	Left cheek	0.193	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.312	0.404	0.484	0.566	0.632	0.510	0.576
	Left tilted	0.119	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.284	0.356	0.423	0.426	0.510	0.352	0.436
	Right cheek	0.291	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.355	0.390	0.455	0.431	0.506	0.428	0.503
	Right tilted	0.145	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.217	0.258	0.321	0.294	0.376	0.251	0.333
DC_2A_n41A	Left cheek	0.319	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.438	0.530	0.610	0.692	0.758	0.636	0.702
	Left tilted	0.148	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.313	0.385	0.452	0.455	0.539	0.381	0.465
	Right cheek	0.754	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.818	0.853	0.918	0.894	0.969	0.891	0.966
	Right tilted	0.310	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.382	0.423	0.486	0.459	0.541	0.416	0.498
DC_12A_n41A	Left cheek	0.397	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.516	0.608	0.688	0.770	0.836	0.714	0.780
	Left tilted	0.205	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.370	0.442	0.509	0.512	0.596	0.438	0.522
	Right cheek	0.882	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.946	0.981	1.046	1.022	1.097	1.019	1.094
	Right tilted	0.406	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.478	0.519	0.582	0.555	0.637	0.512	0.594
DC_66A_n41A	Left cheek	0.309	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.428	0.520	0.600	0.682	0.748	0.626	0.692
	Left tilted	0.114	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.279	0.351	0.418	0.421	0.505	0.347	0.431
	Right cheek	0.767	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.831	0.866	0.931	0.907	0.982	0.904	0.979
	Right tilted	0.275	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.347	0.388	0.451	0.424	0.506	0.381	0.463
DC_2A_n66A	Left cheek	0.485	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.604	0.696	0.776	0.858	0.924	0.802	0.868
	Left tilted	0.464	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.629	0.701	0.768	0.771	0.855	0.697	0.781
	Right cheek	0.768	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.832	0.867	0.932	0.908	0.983	0.905	0.980
	Right tilted	0.615	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.687	0.728	0.791	0.764	0.846	0.721	0.803
DC_5A_n66A	Left cheek	0.601	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.720	0.812	0.892	0.974	1.040	0.918	0.984
	Left tilted	0.534	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.699	0.771	0.838	0.841	0.925	0.767	0.851
	Right cheek	0.980	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.044	1.079	1.144	1.120	1.195	1.117	1.192
	Right tilted	0.742	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.814	0.855	0.918	0.891	0.973	0.848	0.930
DC_12A_n66A	Left cheek	0.563	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.682	0.774	0.854	0.936	1.002	0.880	0.946
	Left tilted	0.521	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.686	0.758	0.825	0.828	0.912	0.754	0.838
	Right cheek	0.896	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.960	0.995	1.060	1.036	1.111	1.033	1.108
	Right tilted	0.711	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.783	0.824	0.887	0.860	0.942	0.817	0.899
DC_48A_n66A	Left cheek	0.372	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.491	0.583	0.663	0.745	0.811	0.689	0.755
	Left tilted	0.414	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.579	0.651	0.718	0.721	0.805	0.647	0.731
	Right cheek	0.955	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.019	1.054	1.119	1.095	1.170	1.092	1.167
	Right tilted	0.568	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.640	0.681	0.744	0.717	0.799	0.674	0.756
DC_66A_n66A	Left cheek	0.475	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.594	0.686	0.766	0.848	0.914	0.792	0.858
	Left tilted	0.430	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.595	0.667	0.734	0.737	0.821	0.663	0.747
	Right cheek	0.781	0.043	0.040	0.035	0.033	0.108	0.100	0.064	0.845	0.880	0.945	0.921	0.996	0.918	0.993
	Right tilted	0.580	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.652	0.693	0.756	0.729	0.811	0.686	0.768
DC_2A_n78A	Left cheek	0.351	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.470	0.562	0.642	0.724	0.790	0.668	0.734



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	Left tilted	0.292	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.457	0.529	0.596	0.599	0.683	0.525	0.609
	Right cheek	1.126	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.190	1.225	1.290	1.266	1.341	1.263	1.338
	Right tilted	0.828	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.900	0.941	1.004	0.977	1.059	0.934	1.016
DC_4A_n78A	Left cheek	0.274	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.393	0.485	0.565	0.647	0.713	0.591	0.657
	Left tilted	0.261	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.426	0.498	0.565	0.568	0.652	0.494	0.578
	Right cheek	1.078	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.142	1.177	1.242	1.218	1.293	1.215	1.290
DC_5A_n78A	Right tilted	0.792	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.864	0.905	0.968	0.941	1.023	0.898	0.980
	Left cheek	0.467	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.586	0.678	0.758	0.840	0.906	0.784	0.850
	Left tilted	0.362	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.527	0.599	0.666	0.669	0.753	0.595	0.679
DC_7A_n78A	Right cheek	1.338	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.402	1.437	1.502	1.478	1.553	1.475	1.550
	Right tilted	0.955	0.046	0.003	0.041	0.031	0.113	0.104	0.072	1.027	1.068	1.131	1.104	1.186	1.061	1.143
	Left cheek	0.428	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.547	0.639	0.719	0.801	0.867	0.745	0.811
DC_12A_n78A	Left tilted	0.320	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.485	0.557	0.624	0.627	0.711	0.553	0.637
	Right cheek	1.161	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.225	1.260	1.325	1.301	1.376	1.298	1.373
	Right tilted	0.856	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.928	0.969	1.032	1.005	1.087	0.962	1.044
DC_38A_n78A	Left cheek	0.429	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.548	0.640	0.720	0.802	0.868	0.746	0.812
	Left tilted	0.349	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.514	0.586	0.653	0.656	0.740	0.582	0.666
	Right cheek	1.254	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.318	1.353	1.418	1.394	1.469	1.391	1.466
DC_66A_n78A	Right tilted	0.924	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.996	1.037	1.100	1.073	1.155	1.030	1.112
	Left cheek	0.314	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.433	0.525	0.605	0.687	0.753	0.631	0.697
	Left tilted	0.274	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.439	0.511	0.578	0.581	0.665	0.507	0.591
DC_66A_n78A	Right cheek	1.114	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.178	1.213	1.278	1.254	1.329	1.251	1.326
	Right tilted	0.819	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.891	0.932	0.995	0.968	1.050	0.925	1.007
	Left cheek	0.341	0.101	0.045	0.092	0.153	0.219	0.172	0.119	0.460	0.552	0.632	0.714	0.780	0.658	0.724
DC_66A_n78A	Left tilted	0.258	0.083	0.009	0.072	0.059	0.143	0.139	0.165	0.423	0.495	0.562	0.565	0.649	0.491	0.575
	Right cheek	1.139	0.043	0.040	0.035	0.033	0.108	0.100	0.064	1.203	1.238	1.303	1.279	1.354	1.276	1.351
	Right tilted	0.793	0.046	0.003	0.041	0.031	0.113	0.104	0.072	0.865	0.906	0.969	0.942	1.024	0.899	0.981

Body-worn:

Test position		SARmax (W/kg)								Summed SAR						
		WWAN MAX SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT							
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8
GSM850	Front side	0.484	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.489	0.649	0.723	0.748	0.931	0.647	0.830
	Back side	0.877	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.901	1.203	1.338	1.283	1.476	1.185	1.378
GSM1900	Front side	0.204	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.209	0.369	0.443	0.468	0.651	0.367	0.550
	Back side	0.305	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.329	0.631	0.766	0.711	0.904	0.613	0.806
WB2	Front side	0.210	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.215	0.375	0.449	0.474	0.657	0.373	0.556
	Back side	0.325	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.349	0.651	0.786	0.731	0.924	0.633	0.826
WB4	Front side	0.292	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.297	0.457	0.531	0.556	0.739	0.455	0.638
	Back side	0.398	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.422	0.724	0.859	0.804	0.997	0.706	0.899
WB5	Front side	0.245	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.250	0.410	0.484	0.509	0.692	0.408	0.591
	Back side	0.479	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.503	0.805	0.940	0.885	1.078	0.787	0.980
LTE B7	Front side	0.178	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.183	0.343	0.417	0.442	0.625	0.341	0.524
	Back side	0.369	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.393	0.695	0.830	0.775	0.968	0.677	0.870
LTE B12/17	Front side	0.209	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.214	0.374	0.448	0.473	0.656	0.372	0.555
	Back side	0.292	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.316	0.618	0.753	0.698	0.891	0.600	0.793
LTE B13	Front side	0.057	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.062	0.222	0.296	0.321	0.504	0.220	0.403



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	Back side	0.064	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.088	0.390	0.525	0.470	0.663	0.372	0.565
LTE B25/2	Front side	0.130	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.135	0.295	0.369	0.394	0.577	0.293	0.476
	Back side	0.235	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.259	0.561	0.696	0.641	0.834	0.543	0.736
LTE B26/5	Front side	0.229	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.234	0.394	0.468	0.493	0.676	0.392	0.575
	Back side	0.449	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.473	0.775	0.910	0.855	1.048	0.757	0.950
LTE B41/38	Front side	0.168	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.173	0.333	0.407	0.432	0.615	0.331	0.514
	Back side	0.287	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.311	0.613	0.748	0.693	0.886	0.595	0.788
LTE B42	Front side	0.085	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.090	0.250	0.324	0.349	0.532	0.248	0.431
	Back side	0.219	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.243	0.545	0.680	0.625	0.818	0.527	0.720
LTE B48	Front side	0.058	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.063	0.223	0.297	0.322	0.505	0.221	0.404
	Back side	0.122	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.146	0.448	0.583	0.528	0.721	0.430	0.623
LTE B66/4	Front side	0.322	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.327	0.487	0.561	0.586	0.769	0.485	0.668
	Back side	0.437	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.461	0.763	0.898	0.843	1.036	0.745	0.938
N2	Front side	0.239	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.244	0.404	0.478	0.503	0.686	0.402	0.585
	Back side	0.365	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.389	0.691	0.826	0.771	0.964	0.673	0.866
N7	Front side	0.203	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.208	0.368	0.442	0.467	0.650	0.366	0.549
	Back side	0.479	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.503	0.805	0.940	0.885	1.078	0.787	0.980
N41/38	Front side	0.146	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.151	0.311	0.385	0.410	0.593	0.309	0.492
	Back side	0.322	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.346	0.648	0.783	0.728	0.921	0.630	0.823
N48	Front side	0.084	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.089	0.249	0.323	0.348	0.531	0.247	0.430
	Back side	0.210	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.234	0.536	0.671	0.616	0.809	0.518	0.711
N66	Front side	0.281	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.286	0.446	0.520	0.545	0.728	0.444	0.627
	Back side	0.327	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.351	0.653	0.788	0.733	0.926	0.635	0.828
N78	Front side	0.176	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.181	0.341	0.415	0.440	0.623	0.339	0.522
	Back side	0.494	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.518	0.820	0.955	0.900	1.093	0.802	0.995

Test position		SARmax (W/kg)								Summed SAR							
		Inter-band UL CA	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT								
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8	
CA_2A-4A	Front side	0.201	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.206	0.366	0.440	0.465	0.648	0.364	0.547	
	Back side	0.391	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.415	0.717	0.852	0.797	0.990	0.699	0.892	
CA_2A-5A	Front side	0.359	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.364	0.524	0.598	0.623	0.806	0.522	0.705	
	Back side	0.684	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.708	1.010	1.145	1.090	1.283	0.992	1.185	
CA_2A-7A	Front side	0.199	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.204	0.364	0.438	0.463	0.646	0.362	0.545	
	Back side	0.392	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.416	0.718	0.853	0.798	0.991	0.700	0.893	
CA_2A-66A	Front side	0.227	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.232	0.392	0.466	0.491	0.674	0.390	0.573	
	Back side	0.430	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.454	0.756	0.891	0.836	1.029	0.738	0.931	
CA_4A-5A	Front side	0.551	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.556	0.716	0.790	0.815	0.998	0.714	0.897	
	Back side	0.886	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.910	1.212	1.347	1.292	1.485	1.194	1.387	
CA_4A-7A	Front side	0.391	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.396	0.556	0.630	0.655	0.838	0.554	0.737	
	Back side	0.594	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.618	0.920	1.055	1.000	1.193	0.902	1.095	
CA_5A-7A	Front side	0.407	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.412	0.572	0.646	0.671	0.854	0.570	0.753	
	Back side	0.818	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.842	1.144	1.279	1.224	1.417	1.126	1.319	
CA_5A-66A	Front side	0.551	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.556	0.716	0.790	0.815	0.998	0.714	0.897	
	Back side	0.886	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.910	1.212	1.347	1.292	1.485	1.194	1.387	
CA_12A-66A	Front side	0.531	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.536	0.696	0.770	0.795	0.978	0.694	0.877	
	Back side	0.729	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.753	1.055	1.190	1.135	1.328	1.037	1.230	
CA_48A-66A	Front side	0.155	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.160	0.320	0.394	0.419	0.602	0.318	0.501	
	Back side	0.317	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.341	0.643	0.778	0.723	0.916	0.625	0.818	



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SZSAR-TRF-01 Rev. A/1

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Test position		SARmax (W/kg)								Summed SAR							
		EN-DC Max SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT								
		1	2	3	4	5	6	7	8								
DC_5A_n2A	Front side	0.468	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.473	0.633	0.707	0.732	0.915	0.631	0.814	
	Back side	0.814	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.838	1.140	1.275	1.220	1.413	1.122	1.315	
DC_12A_n2A	Front side	0.448	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.453	0.613	0.687	0.712	0.895	0.611	0.794	
	Back side	0.657	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.681	0.983	1.118	1.063	1.256	0.965	1.158	
DC_66A_n2A	Front side	0.336	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.341	0.501	0.575	0.600	0.783	0.499	0.682	
	Back side	0.560	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.584	0.886	1.021	0.966	1.159	0.868	1.061	
DC_2A_n5A	Front side	0.301	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.306	0.466	0.540	0.565	0.748	0.464	0.647	
	Back side	0.634	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.658	0.960	1.095	1.040	1.233	0.942	1.135	
DC_5A_n7A	Front side	0.432	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.437	0.597	0.671	0.696	0.879	0.595	0.778	
	Back side	0.928	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.952	1.254	1.389	1.334	1.527	1.236	1.429	
DC_66A_n7A	Front side	0.300	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.305	0.465	0.539	0.564	0.747	0.463	0.646	
	Back side	0.674	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.698	1.000	1.135	1.080	1.273	0.982	1.175	
DC_2A_n12A	Front side	0.326	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.331	0.491	0.565	0.590	0.773	0.489	0.672	
	Back side	0.582	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.606	0.908	1.043	0.988	1.181	0.890	1.083	
DC_2A_n41A	Front side	0.230	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.235	0.395	0.469	0.494	0.677	0.393	0.576	
	Back side	0.503	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.527	0.829	0.964	0.909	1.102	0.811	1.004	
DC_12A_n41A	Front side	0.355	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.360	0.520	0.594	0.619	0.802	0.518	0.701	
	Back side	0.614	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.638	0.940	1.075	1.020	1.213	0.922	1.115	
DC_66A_n41A	Front side	0.243	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.248	0.408	0.482	0.507	0.690	0.406	0.589	
	Back side	0.517	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.541	0.843	0.978	0.923	1.116	0.825	1.018	
DC_2A_n66A	Front side	0.365	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.370	0.530	0.604	0.629	0.812	0.528	0.711	
	Back side	0.508	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.532	0.834	0.969	0.914	1.107	0.816	1.009	
DC_5A_n66A	Front side	0.510	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.515	0.675	0.749	0.774	0.957	0.673	0.856	
	Back side	0.776	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.800	1.102	1.237	1.182	1.375	1.084	1.277	
DC_12A_n66A	Front side	0.490	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.495	0.655	0.729	0.754	0.937	0.653	0.836	
	Back side	0.619	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.643	0.945	1.080	1.025	1.218	0.927	1.120	
DC_48A_n66A	Front side	0.281	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.286	0.446	0.520	0.545	0.728	0.444	0.627	
	Back side	0.327	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.351	0.653	0.788	0.733	0.926	0.635	0.828	
DC_66A_n66A	Front side	0.378	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.383	0.543	0.617	0.642	0.825	0.541	0.724	
	Back side	0.522	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.546	0.848	0.983	0.928	1.121	0.830	1.023	
DC_2A_n78A	Front side	0.260	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.265	0.425	0.499	0.524	0.707	0.423	0.606	
	Back side	0.675	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.699	1.001	1.136	1.081	1.274	0.983	1.176	
DC_4A_n78A	Front side	0.247	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.252	0.412	0.486	0.511	0.694	0.410	0.593	
	Back side	0.650	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.674	0.976	1.111	1.056	1.249	0.958	1.151	
DC_5A_n78A	Front side	0.405	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.410	0.570	0.644	0.669	0.852	0.568	0.751	
	Back side	0.943	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.967	1.269	1.404	1.349	1.542	1.251	1.444	
DC_7A_n78A	Front side	0.245	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.250	0.410	0.484	0.509	0.692	0.408	0.591	
	Back side	0.651	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.675	0.977	1.112	1.057	1.250	0.959	1.152	
DC_12A_n78A	Front side	0.385	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.390	0.550	0.624	0.649	0.832	0.548	0.731	
	Back side	0.786	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.810	1.112	1.247	1.192	1.385	1.094	1.287	
DC_38A_n78A	Front side	0.295	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.300	0.460	0.534	0.559	0.742	0.458	0.641	
	Back side	0.765	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.789	1.091	1.226	1.171	1.364	1.073	1.266	
DC_66A_n78A	Front side	0.273	0.194	0.093	0.160	0.065	0.248	0.234	0.005	0.278	0.438	0.512	0.537	0.720	0.436	0.619	
	Back side	0.689	0.291	0.193	0.302	0.091	0.284	0.437	0.024	0.713	1.015	1.150	1.095	1.288	0.997	1.190	



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Hotspot:

Test position		SARmax (W/kg)								Summed SAR							
		WWAN MAX SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant10(chain1)	WiFi 5G Ant12(chain0)	WiFi 5G MIMO	BT								
		1	2	3	4	5	6	7	8								
GSM850	Front side	0.640	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.650	0.686	0.716	0.733	0.745	0.724	0.736	
	Back side	1.322	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.382	1.459	1.555	1.593	1.538	1.587	1.532	
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	0.501	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.507	0.557	0.707	0.736	0.561	0.763	0.588	
	Top side	/	0.056	/	0.070	0.039	0.062	0.093	0.054	0.054	0.124	0.147	0.149	0.172	0.093	0.116	
	Bottom side	0.194	/	/	/	/	/	/	/	0.194	0.194	0.194	0.194	0.194	0.194	0.194	
GSM1900	Front side	0.336	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.346	0.382	0.412	0.429	0.441	0.420	0.432	
	Back side	0.569	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.629	0.706	0.802	0.840	0.785	0.834	0.779	
	Left side	0.398	/	/	/	/	/	/	/	0.398	0.398	0.398	0.398	0.398	0.398	0.398	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.428	0.056	/	0.070	0.039	0.062	0.093	0.054	0.482	0.552	0.575	0.577	0.600	0.521	0.544	
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
WB2	Front side	0.442	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.452	0.488	0.518	0.535	0.547	0.526	0.538	
	Back side	0.945	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.005	1.082	1.178	1.216	1.161	1.210	1.155	
	Left side	0.298	/	/	/	/	/	/	/	0.298	0.298	0.298	0.298	0.298	0.298	0.298	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.945	0.056	/	0.070	0.039	0.062	0.093	0.054	0.999	1.069	1.092	1.094	1.117	1.038	1.061	
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
WB4	Front side	0.461	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.471	0.507	0.537	0.554	0.566	0.545	0.557	
	Back side	0.716	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.776	0.853	0.949	0.987	0.932	0.981	0.926	
	Left side	0.359	/	/	/	/	/	/	/	0.359	0.359	0.359	0.359	0.359	0.359	0.359	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.759	0.056	/	0.070	0.039	0.062	0.093	0.054	0.813	0.883	0.906	0.908	0.931	0.852	0.875	
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
WB5	Front side	0.358	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.368	0.404	0.434	0.451	0.463	0.442	0.454	
	Back side	0.793	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.853	0.930	1.026	1.064	1.009	1.058	1.003	
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	0.388	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.394	0.444	0.594	0.623	0.448	0.650	0.475	
	Top side	/	0.056	/	0.070	0.039	0.062	0.093	0.054	0.054	0.124	0.147	0.149	0.172	0.093	0.116	
	Bottom side	0.115	/	/	/	/	/	/	/	0.115	0.115	0.115	0.115	0.115	0.115	0.115	
LTE B7	Front side	0.273	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.283	0.319	0.349	0.366	0.378	0.357	0.369	
	Back side	0.541	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.601	0.678	0.774	0.812	0.757	0.806	0.751	
	Left side	0.668	/	/	/	/	/	/	/	0.668	0.668	0.668	0.668	0.668	0.668	0.668	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.133	0.056	/	0.070	0.039	0.062	0.093	0.054	0.187	0.257	0.280	0.282	0.305	0.226	0.249	
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
LTE B12/17	Front side	0.195	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.205	0.241	0.271	0.288	0.300	0.279	0.291	
	Back side	0.309	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.369	0.446	0.542	0.580	0.525	0.574	0.519	
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450	
	Top side	/	0.056	/	0.070	0.039	0.062	0.093	0.054	0.054	0.124	0.147	0.149	0.172	0.093	0.116	
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132	
LTE B13	Front side	0.379	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.389	0.425	0.455	0.472	0.484	0.463	0.475	



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	Back side	0.606	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.666	0.743	0.839	0.877	0.822	0.871	0.816
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	0.511	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.517	0.567	0.717	0.746	0.571	0.773	0.598
	Top side	/	0.056	/	0.070	0.039	0.062	0.093	0.054	0.054	0.124	0.147	0.149	0.172	0.093	0.116
	Bottom side	0.286	/	/	/	/	/	/	/	0.286	0.286	0.286	0.286	0.286	0.286	0.286
LTE B25/2	Front side	0.424	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.434	0.470	0.500	0.517	0.529	0.508	0.520
	Back side	0.641	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.701	0.778	0.874	0.912	0.857	0.906	0.851
	Left side	0.309	/	/	/	/	/	/	/	0.309	0.309	0.309	0.309	0.309	0.309	0.309
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.734	0.056	/	0.070	0.039	0.062	0.093	0.054	0.788	0.858	0.881	0.883	0.906	0.827	0.850
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE B26/5	Front side	0.298	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.308	0.344	0.374	0.391	0.403	0.382	0.394
	Back side	0.650	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.710	0.787	0.883	0.921	0.866	0.915	0.860
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494
	Top side	/	0.056	/	0.070	0.039	0.062	0.093	0.054	0.054	0.124	0.147	0.149	0.172	0.093	0.116
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292
LTE B41/38	Front side	0.255	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.265	0.301	0.331	0.348	0.360	0.339	0.351
	Back side	0.585	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.645	0.722	0.818	0.856	0.801	0.850	0.795
	Left side	0.908	/	/	/	/	/	/	/	0.908	0.908	0.908	0.908	0.908	0.908	0.908
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.164	0.056	/	0.070	0.039	0.062	0.093	0.054	0.218	0.288	0.311	0.313	0.336	0.257	0.280
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE B42	Front side	0.173	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.183	0.219	0.249	0.266	0.278	0.257	0.269
	Back side	0.470	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.530	0.607	0.703	0.741	0.686	0.735	0.680
	Left side	0.998	/	/	/	/	/	/	/	0.998	0.998	0.998	0.998	0.998	0.998	0.998
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.218	0.056	/	0.070	0.039	0.062	0.093	0.054	0.272	0.342	0.365	0.367	0.390	0.311	0.334
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE B48	Front side	0.143	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.153	0.189	0.219	0.236	0.248	0.227	0.239
	Back side	0.392	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.452	0.529	0.625	0.663	0.608	0.657	0.602
	Left side	0.439	/	/	/	/	/	/	/	0.439	0.439	0.439	0.439	0.439	0.439	0.439
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.135	0.056	/	0.070	0.039	0.062	0.093	0.054	0.189	0.259	0.282	0.284	0.307	0.228	0.251
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE B66/4	Front side	0.498	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.508	0.544	0.574	0.591	0.603	0.582	0.594
	Back side	0.896	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.956	1.033	1.129	1.167	1.112	1.161	1.106
	Left side	0.387	/	/	/	/	/	/	/	0.387	0.387	0.387	0.387	0.387	0.387	0.387
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.765	0.056	/	0.070	0.039	0.062	0.093	0.054	0.819	0.889	0.912	0.914	0.937	0.858	0.881
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N2	Front side	0.323	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.333	0.369	0.399	0.416	0.428	0.407	0.419
	Back side	0.503	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.563	0.640	0.736	0.774	0.719	0.768	0.713
	Left side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.648	0.056	/	0.070	0.039	0.062	0.093	0.054	0.702	0.772	0.795	0.797	0.820	0.741	0.764
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N7	Front side	0.337	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.347	0.383	0.413	0.430	0.442	0.421	0.433
	Back side	0.870	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.930	1.007	1.103	1.141	1.086	1.135	1.080
	Left side	0.636	/	/	/	/	/	/	/	0.636	0.636	0.636	0.636	0.636	0.636	0.636



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	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.148	0.056	/	0.070	0.039	0.062	0.093	0.054	0.202	0.272	0.295	0.297	0.320	0.241	0.264
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N41/38	Front side	0.242	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.252	0.288	0.318	0.335	0.347	0.326	0.338
	Back side	0.600	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.660	0.737	0.833	0.871	0.816	0.865	0.810
	Left side	0.723	/	/	/	/	/	/	/	0.723	0.723	0.723	0.723	0.723	0.723	0.723
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.192	0.056	/	0.070	0.039	0.062	0.093	0.054	0.246	0.316	0.339	0.341	0.364	0.285	0.308
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N48	Front side	0.192	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.202	0.238	0.268	0.285	0.297	0.276	0.288
	Back side	0.553	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.613	0.690	0.786	0.824	0.769	0.818	0.763
	Left side	0.829	/	/	/	/	/	/	/	0.829	0.829	0.829	0.829	0.829	0.829	0.829
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.318	0.056	/	0.070	0.039	0.062	0.093	0.054	0.372	0.442	0.465	0.467	0.490	0.411	0.434
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N66	Front side	0.440	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.450	0.486	0.516	0.533	0.545	0.524	0.536
	Back side	0.654	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.714	0.791	0.887	0.925	0.870	0.919	0.864
	Left side	0.311	/	/	/	/	/	/	/	0.311	0.311	0.311	0.311	0.311	0.311	0.311
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N78	Front side	0.292	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.302	0.338	0.368	0.385	0.397	0.376	0.388
	Back side	1.067	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.127	1.204	1.300	1.338	1.283	1.332	1.277
	Left side	1.240	/	/	/	/	/	/	/	1.240	1.240	1.240	1.240	1.240	1.240	1.240
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.388	0.056	/	0.070	0.039	0.062	0.093	0.054	0.442	0.512	0.535	0.537	0.560	0.481	0.504
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Test position		SARmax (W/kg)								Summed SAR						
		Inter-band UL CA	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant10(chain1)	WiFi 5G Ant12(chain0)	WiFi 5G MIMO	BT							
		1	2	3	4	5	6	7	8	1+8	1+4+8	1+7+8	1+2+5+8	1+2+6+8	1+3+5+8	1+3+6+8
CA_2A-4A	Front side	0.512	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.522	0.558	0.588	0.605	0.617	0.596	0.608
	Back side	0.842	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.902	0.979	1.075	1.113	1.058	1.107	1.052
	Left side	0.320	/	/	/	/	/	/	/	0.320	0.320	0.320	0.320	0.320	0.320	0.320
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.734	0.056	/	0.070	0.039	0.062	0.093	0.054	0.788	0.858	0.881	0.883	0.906	0.827	0.850
	Bottom side	0.160	/	/	/	/	/	/	/	0.160	0.160	0.160	0.160	0.160	0.160	0.160
CA_2A-5A	Front side	0.722	/	/	/	/	/	/	/	0.722	0.722	0.722	0.722	0.722	0.722	0.722
	Back side	1.291	0.017	0.044	0.050	0.212	0.037	0.200	0.006	1.297	1.347	1.497	1.526	1.351	1.553	1.378
	Left side	0.309	0.056	/	0.070	0.039	0.062	0.093	0.054	0.363	0.433	0.456	0.458	0.481	0.402	0.425
	Right side	0.407	/	/	/	/	/	/	/	0.407	0.407	0.407	0.407	0.407	0.407	0.407
	Top side	0.734	/	/	/	/	/	/	/	0.734	0.734	0.734	0.734	0.734	0.734	0.734
	Bottom side	0.292	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.298	0.348	0.498	0.527	0.352	0.554	0.379
CA_2A-7A	Front side	0.526	0.056	/	0.070	0.039	0.062	0.093	0.054	0.580	0.650	0.673	0.675	0.698	0.619	0.642
	Back side	0.918	/	/	/	/	/	/	/	0.918	0.918	0.918	0.918	0.918	0.918	0.918
	Left side	0.322	/	/	/	/	/	/	/	0.322	0.322	0.322	0.322	0.322	0.322	0.322
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.734	0.056	/	0.070	0.039	0.062	0.093	0.054	0.788	0.858	0.881	0.883	0.906	0.827	0.850
	Bottom side	0.190	/	/	/	/	/	/	/	0.190	0.190	0.190	0.190	0.190	0.190	0.190



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CA_2A-66A	Front side	0.538	/	/	/	/	/	/	/	0.538	0.538	0.538	0.538	0.538	0.538	0.538
	Back side	0.924	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.930	0.980	1.130	1.159	0.984	1.186	1.011
	Left side	0.335	0.056	/	0.070	0.039	0.062	0.093	0.054	0.389	0.459	0.482	0.484	0.507	0.428	0.451
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	0.734	/	/	/	/	/	/	/	0.734	0.734	0.734	0.734	0.734	0.734	0.734
	Bottom side	0.272	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.278	0.328	0.478	0.507	0.332	0.534	0.359
CA_4A-5A	Front side	0.548	0.056	/	0.070	0.039	0.062	0.093	0.054	0.602	0.672	0.695	0.697	0.720	0.641	0.664
	Back side	1.099	/	/	/	/	/	/	/	1.099	1.099	1.099	1.099	1.099	1.099	1.099
	Left side	0.194	/	/	/	/	/	/	/	0.194	0.194	0.194	0.194	0.194	0.194	0.194
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494
	Top side	0.383	0.056	/	0.070	0.039	0.062	0.093	0.054	0.437	0.507	0.530	0.532	0.555	0.476	0.499
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292
CA_4A-7A	Front side	0.352	/	/	/	/	/	/	/	0.352	0.352	0.352	0.352	0.352	0.352	0.352
	Back side	0.726	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.732	0.782	0.932	0.961	0.786	0.988	0.813
	Left side	0.207	0.056	/	0.070	0.039	0.062	0.093	0.054	0.261	0.331	0.354	0.356	0.379	0.300	0.323
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	0.383	/	/	/	/	/	/	/	0.383	0.383	0.383	0.383	0.383	0.383	0.383
	Bottom side	0.190	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.196	0.246	0.396	0.425	0.250	0.452	0.277
CA_5A-7A	Front side	0.571	0.056	/	0.070	0.039	0.062	0.093	0.054	0.625	0.695	0.718	0.720	0.743	0.664	0.687
	Back side	1.191	/	/	/	/	/	/	/	1.191	1.191	1.191	1.191	1.191	1.191	1.191
	Left side	0.668	/	/	/	/	/	/	/	0.668	0.668	0.668	0.668	0.668	0.668	0.668
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494
	Top side	0.133	0.056	/	0.070	0.039	0.062	0.093	0.054	0.187	0.257	0.280	0.282	0.305	0.226	0.249
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292
CA_5A-66A	Front side	0.548	/	/	/	/	/	/	/	0.548	0.548	0.548	0.548	0.548	0.548	0.548
	Back side	1.099	0.017	0.044	0.050	0.212	0.037	0.200	0.006	1.105	1.155	1.305	1.334	1.159	1.361	1.186
	Left side	0.194	0.056	/	0.070	0.039	0.062	0.093	0.054	0.248	0.318	0.341	0.343	0.366	0.287	0.310
	Right side	0.407	/	/	/	/	/	/	/	0.407	0.407	0.407	0.407	0.407	0.407	0.407
	Top side	0.383	/	/	/	/	/	/	/	0.383	0.383	0.383	0.383	0.383	0.383	0.383
	Bottom side	0.292	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.298	0.348	0.498	0.527	0.352	0.554	0.379
CA_12A-66A	Front side	0.445	0.056	/	0.070	0.039	0.062	0.093	0.054	0.499	0.569	0.592	0.594	0.617	0.538	0.561
	Back side	0.758	/	/	/	/	/	/	/	0.758	0.758	0.758	0.758	0.758	0.758	0.758
	Left side	0.194	/	/	/	/	/	/	/	0.194	0.194	0.194	0.194	0.194	0.194	0.194
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450
	Top side	0.383	0.056	/	0.070	0.039	0.062	0.093	0.054	0.437	0.507	0.530	0.532	0.555	0.476	0.499
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132
CA_48A-66A	Front side	0.257	/	/	/	/	/	/	/	0.257	0.257	0.257	0.257	0.257	0.257	0.257
	Back side	0.675	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.681	0.731	0.881	0.910	0.735	0.937	0.762
	Left side	0.465	0.056	/	0.070	0.039	0.062	0.093	0.054	0.519	0.589	0.612	0.614	0.637	0.558	0.581
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	0.135	/	/	/	/	/	/	/	0.135	0.135	0.135	0.135	0.135	0.135	0.135
	Bottom side	0.272	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.278	0.328	0.478	0.507	0.332	0.534	0.359

Test position		SARmax (W/kg)								Summed SAR							
		EN-DC Max SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G Ant10(chain1)	WiFi 5G Ant12(chain0)	WiFi 5G MIMO	BT								
		1	2	3	4	5	6	7	8								
DC_5A_n2A	Front side	0.621	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.631	0.667	0.697	0.714	0.726	0.705	0.717	
	Back side	1.153	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.213	1.290	1.386	1.424	1.369	1.418	1.363	



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	Left side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494	
	Top side	0.648	0.056	/	0.070	0.039	0.062	0.093	0.054	0.702	0.772	0.795	0.797	0.820	0.741	0.764	
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292	
DC_12A_n2A	Front side	0.518	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.528	0.564	0.594	0.611	0.623	0.602	0.614	
	Back side	0.812	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.872	0.949	1.045	1.083	1.028	1.077	1.022	
	Left side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272	
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450	
	Top side	0.648	0.056	/	0.070	0.039	0.062	0.093	0.054	0.702	0.772	0.795	0.797	0.820	0.741	0.764	
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132	
DC_66A_n2A	Front side	0.437	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.447	0.483	0.513	0.530	0.542	0.521	0.533	
	Back side	0.786	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.846	0.923	1.019	1.057	1.002	1.051	0.996	
	Left side	0.298	/	/	/	/	/	/	/	0.298	0.298	0.298	0.298	0.298	0.298	0.298	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.648	0.056	/	0.070	0.039	0.062	0.093	0.054	0.702	0.772	0.795	0.797	0.820	0.741	0.764	
	Bottom side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272	
DC_2A_n5A	Front side	0.728	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.738	0.774	0.804	0.821	0.833	0.812	0.824	
	Back side	1.219	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.279	1.356	1.452	1.490	1.435	1.484	1.429	
	Left side	0.309	/	/	/	/	/	/	/	0.309	0.309	0.309	0.309	0.309	0.309	0.309	
	Right side	0.617	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.623	0.673	0.823	0.852	0.677	0.879	0.704	
	Top side	0.734	0.056	/	0.070	0.039	0.062	0.093	0.054	0.788	0.858	0.881	0.883	0.906	0.827	0.850	
	Bottom side	0.510	/	/	/	/	/	/	/	0.510	0.510	0.510	0.510	0.510	0.510	0.510	
DC_5A_n7A	Front side	0.467	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.477	0.513	0.543	0.560	0.572	0.551	0.563	
	Back side	1.086	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.146	1.223	1.319	1.357	1.302	1.351	1.296	
	Left side	0.319	/	/	/	/	/	/	/	0.319	0.319	0.319	0.319	0.319	0.319	0.319	
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494	
	Top side	0.074	0.056	/	0.070	0.039	0.062	0.093	0.054	0.128	0.198	0.221	0.223	0.246	0.167	0.190	
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292	
DC_66A_n7A	Front side	0.283	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.293	0.329	0.359	0.376	0.388	0.367	0.379	
	Back side	0.719	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.779	0.856	0.952	0.990	0.935	0.984	0.929	
	Left side	0.345	/	/	/	/	/	/	/	0.345	0.345	0.345	0.345	0.345	0.345	0.345	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.074	0.056	/	0.070	0.039	0.062	0.093	0.054	0.128	0.198	0.221	0.223	0.246	0.167	0.190	
	Bottom side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272	
DC_2A_n12A	Front side	0.635	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.645	0.681	0.711	0.728	0.740	0.719	0.731	
	Back side	0.947	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.007	1.084	1.180	1.218	1.163	1.212	1.157	
	Left side	0.309	/	/	/	/	/	/	/	0.309	0.309	0.309	0.309	0.309	0.309	0.309	
	Right side	0.414	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.420	0.470	0.620	0.649	0.474	0.676	0.501	
	Top side	0.734	0.056	/	0.070	0.039	0.062	0.093	0.054	0.788	0.858	0.881	0.883	0.906	0.827	0.850	
	Bottom side	0.145	/	/	/	/	/	/	/	0.145	0.145	0.145	0.145	0.145	0.145	0.145	
DC_2A_n41A	Front side	0.337	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.347	0.383	0.413	0.430	0.442	0.421	0.433	
	Back side	0.790	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.850	0.927	1.023	1.061	1.006	1.055	1.000	
	Left side	0.761	/	/	/	/	/	/	/	0.761	0.761	0.761	0.761	0.761	0.761	0.761	
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087	
	Top side	0.192	0.056	/	0.070	0.039	0.062	0.093	0.054	0.246	0.316	0.339	0.341	0.364	0.285	0.308	
	Bottom side	0.175	/	/	/	/	/	/	/	0.175	0.175	0.175	0.175	0.175	0.175	0.175	
DC_12A_n41A	Front side	0.437	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.447	0.483	0.513	0.530	0.542	0.521	0.533	
	Back side	0.909	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.969	1.046	1.142	1.180	1.125	1.174	1.119	
	Left side	0.723	/	/	/	/	/	/	/	0.723	0.723	0.723	0.723	0.723	0.723	0.723	
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450	



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	Top side	0.192	0.056	/	0.070	0.039	0.062	0.093	0.054	0.246	0.316	0.339	0.341	0.364	0.285	0.308
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132
DC_66A_n41A	Front side	0.356	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.366	0.402	0.432	0.449	0.461	0.440	0.452
	Back side	0.883	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.943	1.020	1.116	1.154	1.099	1.148	1.093
	Left side	0.749	/	/	/	/	/	/	/	0.749	0.749	0.749	0.749	0.749	0.749	0.749
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.192	0.056	/	0.070	0.039	0.062	0.093	0.054	0.246	0.316	0.339	0.341	0.364	0.285	0.308
	Bottom side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272
DC_2A_n66A	Front side	0.535	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.545	0.581	0.611	0.628	0.640	0.619	0.631
	Back side	0.844	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.904	0.981	1.077	1.115	1.060	1.109	1.054
	Left side	0.349	/	/	/	/	/	/	/	0.349	0.349	0.349	0.349	0.349	0.349	0.349
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	0.175	/	/	/	/	/	/	/	0.175	0.175	0.175	0.175	0.175	0.175	0.175
DC_5A_n66A	Front side	0.738	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.748	0.784	0.814	0.831	0.843	0.822	0.834
	Back side	1.304	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.364	1.441	1.537	1.575	1.520	1.569	1.514
	Left side	0.311	/	/	/	/	/	/	/	0.311	0.311	0.311	0.311	0.311	0.311	0.311
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292
DC_12A_n66A	Front side	0.635	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.645	0.681	0.711	0.728	0.740	0.719	0.731
	Back side	0.963	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.023	1.100	1.196	1.234	1.179	1.228	1.173
	Left side	0.311	/	/	/	/	/	/	/	0.311	0.311	0.311	0.311	0.311	0.311	0.311
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132
DC_48A_n66A	Front side	0.440	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.450	0.486	0.516	0.533	0.545	0.524	0.536
	Back side	0.654	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.714	0.791	0.887	0.925	0.870	0.919	0.864
	Left side	0.450	/	/	/	/	/	/	/	0.450	0.450	0.450	0.450	0.450	0.450	0.450
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	0.186	/	/	/	/	/	/	/	0.186	0.186	0.186	0.186	0.186	0.186	0.186
DC_66A_n66A	Front side	0.554	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.564	0.600	0.630	0.647	0.659	0.638	0.650
	Back side	0.937	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.997	1.074	1.170	1.208	1.153	1.202	1.147
	Left side	0.337	/	/	/	/	/	/	/	0.337	0.337	0.337	0.337	0.337	0.337	0.337
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.636	0.056	/	0.070	0.039	0.062	0.093	0.054	0.690	0.760	0.783	0.785	0.808	0.729	0.752
	Bottom side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272
DC_2A_n78A	Front side	0.282	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.292	0.328	0.358	0.375	0.387	0.366	0.378
	Back side	0.863	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.923	1.000	1.096	1.134	1.079	1.128	1.073
	Left side	0.848	/	/	/	/	/	/	/	0.848	0.848	0.848	0.848	0.848	0.848	0.848
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.175	/	/	/	/	/	/	/	0.175	0.175	0.175	0.175	0.175	0.175	0.175
DC_4A_n78A	Front side	0.275	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.285	0.321	0.351	0.368	0.380	0.359	0.371
	Back side	0.874	0.057	0.051	0.077	0.154	0.099	0.173	0.060	0.934	1.011	1.107	1.145	1.090	1.139	1.084
	Left side	0.821	/	/	/	/	/	/	/	0.821	0.821	0.821	0.821	0.821	0.821	0.821
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.160	/	/	/	/	/	/	/	0.160	0.160	0.160	0.160	0.160	0.160	0.160



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DC_5A_n78A	Front side	0.485	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.495	0.531	0.561	0.578	0.590	0.569	0.581
	Back side	1.323	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.383	1.460	1.556	1.594	1.539	1.588	1.533
	Left side	0.810	/	/	/	/	/	/	/	0.810	0.810	0.810	0.810	0.810	0.810	0.810
	Right side	0.407	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.413	0.463	0.613	0.642	0.467	0.669	0.494
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.292	/	/	/	/	/	/	/	0.292	0.292	0.292	0.292	0.292	0.292	0.292
DC_7A_n78A	Front side	0.289	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.299	0.335	0.365	0.382	0.394	0.373	0.385
	Back side	0.950	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.010	1.087	1.183	1.221	1.166	1.215	1.160
	Left side	0.823	/	/	/	/	/	/	/	0.823	0.823	0.823	0.823	0.823	0.823	0.823
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.190	/	/	/	/	/	/	/	0.190	0.190	0.190	0.190	0.190	0.190	0.190
DC_12A_n78A	Front side	0.382	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.392	0.428	0.458	0.475	0.487	0.466	0.478
	Back side	0.982	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.042	1.119	1.215	1.253	1.198	1.247	1.192
	Left side	0.810	/	/	/	/	/	/	/	0.810	0.810	0.810	0.810	0.810	0.810	0.810
	Right side	0.363	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.369	0.419	0.569	0.598	0.423	0.625	0.450
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.132	/	/	/	/	/	/	/	0.132	0.132	0.132	0.132	0.132	0.132	0.132
DC_38A_n78A	Front side	0.302	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.312	0.348	0.378	0.395	0.407	0.386	0.398
	Back side	0.983	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.043	1.120	1.216	1.254	1.199	1.248	1.193
	Left side	0.825	/	/	/	/	/	/	/	0.825	0.825	0.825	0.825	0.825	0.825	0.825
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.256	/	/	/	/	/	/	/	0.256	0.256	0.256	0.256	0.256	0.256	0.256
DC_66A_n78A	Front side	0.301	0.029	0.020	0.036	0.054	0.066	0.066	0.010	0.311	0.347	0.377	0.394	0.406	0.385	0.397
	Back side	0.956	0.057	0.051	0.077	0.154	0.099	0.173	0.060	1.016	1.093	1.189	1.227	1.172	1.221	1.166
	Left side	0.836	/	/	/	/	/	/	/	0.836	0.836	0.836	0.836	0.836	0.836	0.836
	Right side	/	0.017	0.044	0.050	0.212	0.037	0.200	0.006	0.006	0.056	0.206	0.235	0.060	0.262	0.087
	Top side	0.245	0.056	/	0.070	0.039	0.062	0.093	0.054	0.299	0.369	0.392	0.394	0.417	0.338	0.361
	Bottom side	0.272	/	/	/	/	/	/	/	0.272	0.272	0.272	0.272	0.272	0.272	0.272

Product Specific 10-g (0mm):

Test position	SARmax (W/kg)									Summed SAR						
	WWAN MAX SAR	WiFi 2.4G Ant8(chain0)	WiFi 2.4G Ant9(chain1)	WiFi 2.4G MIMO	WiFi 5G/6E Ant10(chain1)	WiFi 5G/6E Ant12(chain0)	WiFi 5G/6E MIMO	BT	NFC							
	1	2	3	4	5	6	7	8	9	1+8+9	1+4+8+9	1+7+8+9	1+2+5+8+9	1+2+6+8+9	1+3+5+8+9	1+3+6+8+9
GSM850	Front side	/	/	/	/	0.120	0.700	0.149	/	0.003	0.003	0.003	0.152	0.123	0.703	0.123
	Back side	2.753	/	/	/	0.154	0.454	0.164	/	0.005	2.758	2.758	2.922	2.912	2.912	3.212
	Left side	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	/	/	/	/	0.457	0.310	0.441	/	0.000	0.000	0.000	0.441	0.457	0.310	0.457
	Top side	/	/	/	/	0.118	0.779	0.170	/	0.000	0.000	0.000	0.170	0.118	0.779	0.118
	Bottom side	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N78	Front side	/	/	/	/	0.120	0.700	0.149	/	0.003	0.003	0.003	0.152	0.123	0.703	0.123
	Back side	2.836	/	/	/	0.154	0.454	0.164	/	0.005	2.841	2.841	3.005	2.995	2.995	3.295
	Left side	2.881	/	/	/	/	/	/	/	0.000	2.881	2.881	2.881	2.881	2.881	2.881
	Right side	/	/	/	/	0.457	0.310	0.441	/	0.000	0.000	0.000	0.441	0.457	0.310	0.457
	Top side	/	/	/	/	0.118	0.779	0.170	/	0.000	0.000	0.000	0.170	0.118	0.779	0.118
	Bottom side	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Sum_ULCA(Head):

LTE Band ULCA	Exposure position	Ant2	An3	LTE B2	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Left Touch	/	0.036	0.483	0.483	0.519
	Left Tilt	/	0.019	0.567	0.567	0.586
	Right Touch	/	0.029	0.944	0.944	0.973
	Right Tilt	/	0.011	0.790	0.790	0.801
LTE B5	Left Touch	0.229	/	0.483	0.712	0.483
	Left Tilt	0.120	/	0.567	0.687	0.567
	Right Touch	0.289	/	0.944	1.233	0.944
	Right Tilt	0.174	/	0.790	0.964	0.790
LTE B7	Left Touch	/	0.190	0.483	0.483	0.673
	Left Tilt	/	0.078	0.567	0.567	0.645
	Right Touch	/	0.112	0.944	0.944	1.056
	Right Tilt	/	0.075	0.790	0.790	0.865
LTE B66	Left Touch	/	0.103	0.483	0.483	0.586
	Left Tilt	/	0.016	0.567	0.567	0.583
	Right Touch	/	0.090	0.944	0.944	1.034
	Right Tilt	/	0.012	0.790	0.790	0.802

LTE Band ULCA	Exposure position	Ant2	An3	LTE B4	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B5	Left Touch	0.229	/	0.348	0.577	0.348
	Left Tilt	0.120	/	0.378	0.498	0.378
	Right Touch	0.289	/	0.660	0.949	0.660
	Right Tilt	0.174	/	0.512	0.686	0.512
LTE B7	Left Touch	/	0.190	0.348	0.348	0.538
	Left Tilt	/	0.078	0.378	0.378	0.456
	Right Touch	/	0.112	0.660	0.660	0.772
	Right Tilt	/	0.075	0.512	0.512	0.587

LTE Band ULCA	Exposure position	Ant0	An7	LTE B5	Inter-band CA Summed SAR	
				Ant2		
		1	2	3	1+3	2+3
LTE B7	Left Touch	/	0.135	0.229	0.229	0.364
	Left Tilt	/	0.079	0.120	0.120	0.199
	Right Touch	/	0.474	0.289	0.289	0.763
	Right Tilt	/	0.196	0.174	0.174	0.370



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LTE B66	Left Touch	0.348	/	0.229	0.577	0.229
	Left Tilt	0.378	/	0.120	0.498	0.120
	Right Touch	0.660	/	0.289	0.949	0.289
	Right Tilt	0.512	/	0.174	0.686	0.174

LTE Band ULCA	Exposure position	Ant0	LTE B12	Inter-band CA Summed SAR
			Ant2	
		1	2	
LTE B66	Left Touch	0.348	0.191	0.539
	Left Tilt	0.378	0.107	0.485
	Right Touch	0.660	0.205	0.865
	Right Tilt	0.512	0.143	0.655

LTE Band ULCA	Exposure position	Ant3	LTE B48	Inter-band CA Summed SAR
			Ant4	
		1	2	
LTE B66	Left Touch	0.103	0.194	0.297
	Left Tilt	0.016	0.195	0.211
	Right Touch	0.090	0.933	1.023
	Right Tilt	0.012	0.462	0.474

Sum_ULCA(Body-Worn):

LTE Band ULCA	Exposure position	Ant2	An3	LTE B2	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B4	Front side	/	0.071	0.130	0.130	0.201
	Back side	/	0.156	0.235	0.235	0.391
LTE B5	Front side	0.229	/	0.130	0.359	0.130
	Back side	0.449	/	0.235	0.684	0.235
LTE B7	Front side	/	0.069	0.130	0.130	0.199
	Back side	/	0.157	0.235	0.235	0.392
LTE B66	Front side	/	0.097	0.130	0.130	0.227
	Back side	/	0.195	0.235	0.235	0.430

LTE Band ULCA	Exposure position	Ant2	An3	LTE B4	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B5	Front side	0.229	/	0.322	0.551	0.322
	Back side	0.449	/	0.437	0.886	0.437
LTE B7	Front side	/	0.069	0.322	0.322	0.391
	Back side	/	0.157	0.437	0.437	0.594



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LTE Band ULCA	Exposure position	Ant0	An7	LTE B5 Ant2	Inter-band CA Summed SAR	
		1	2	3	1+3	2+3
LTE B7	Front side	/	0.178	0.229	0.229	0.407
	Back side	/	0.369	0.449	0.449	0.818
LTE B66	Front side	0.322	/	0.229	0.551	0.229
	Back side	0.437	/	0.449	0.886	0.449

LTE Band ULCA	Exposure position	Ant0	LTE B12 Ant2	Inter-band CA Summed SAR
		1	2	
LTE B66	Front side	0.322	0.209	0.531
	Back side	0.437	0.292	0.729

LTE Band ULCA	Exposure position	Ant3	LTE B48 Ant4	Inter-band CA Summed SAR
		1	2	
LTE B66	Front side	0.097	0.058	0.155
	Back side	0.195	0.122	0.317

Sum_ULCA(Hotspot):

LTE Band ULCA	Exposure position	Ant2	An3	LTE B2 Ant0	Inter-band CA Summed SAR	
		1	2	3	1+3	2+3
LTE B4	Front side	/	0.088	0.424	0.424	0.512
	Back side	/	0.201	0.641	0.641	0.842
	Left side	/	0.011	0.309	0.309	0.320
	Right side	/	/	/	/	/
	Top side	/	/	0.734	0.734	0.734
	Bottom side	/	0.160	/	/	0.160
LTE B5	Front side	0.298	/	0.424	0.722	0.424
	Back side	0.650	/	0.641	1.291	0.641
	Left side	/	/	0.309	0.309	0.309
	Right side	0.407	/	/	0.407	/
	Top side	/	/	0.734	0.734	0.734
	Bottom side	0.292	/	/	0.292	/
LTE B7	Front side	/	0.102	0.424	0.424	0.526
	Back side	/	0.277	0.641	0.641	0.918
	Left side	/	0.013	0.309	0.309	0.322
	Right side	/	/	/	/	/
	Top side	/	/	0.734	0.734	0.734



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	Bottom side	/	0.190	/	/	0.190
LTE B66	Front side	/	0.114	0.424	0.424	0.538
	Back side	/	0.283	0.641	0.641	0.924
	Left side	/	0.026	0.309	0.309	0.335
	Right side	/	/	/	/	/
	Top side	/	/	0.734	0.734	0.734
	Bottom side	/	0.272	/	/	0.272

LTE Band ULCA	Exposure position	Ant2	An3	LTE B4 Ant0	Inter-band CA Summed SAR	
		1	2	3	1+3	2+3
LTE B5	Front side	0.298	/	0.250	0.548	0.250
	Back side	0.650	/	0.449	1.099	0.449
	Left side	/	/	0.194	0.194	0.194
	Right side	0.407	/	/	0.407	/
	Top side	/	/	0.383	0.383	0.383
	Bottom side	0.292	/	/	0.292	/
LTE B7	Front side	/	0.102	0.250	0.250	0.352
	Back side	/	0.277	0.449	0.449	0.726
	Left side	/	0.013	0.194	0.194	0.207
	Right side	/	/	/	/	/
	Top side	/	/	0.383	0.383	0.383
	Bottom side	/	0.190	/	/	0.190

LTE Band ULCA	Exposure position	Ant0	An7	LTE B5 Ant2	Inter-band CA Summed SAR	
		1	2	3	1+3	2+3
LTE B7	Front side	/	0.273	0.298	0.298	0.571
	Back side	/	0.541	0.650	0.650	1.191
	Left side	/	0.668	/	/	0.668
	Right side	/	/	0.407	0.407	0.407
	Top side	/	0.133	/	/	0.133
	Bottom side	/	/	0.292	0.292	0.292
LTE B66	Front side	0.250	/	0.298	0.548	0.298
	Back side	0.449	/	0.650	1.099	0.650
	Left side	0.194	/	/	0.194	/
	Right side	/	/	0.407	0.407	0.407
	Top side	0.383	/	/	0.383	/
	Bottom side	/	/	0.292	0.292	0.292



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LTE Band ULCA	Exposure position	Ant0	LTE B12	Inter-band CA Summed SAR
		1	Ant2	
LTE B66	Front side	0.250	2	1+2
	Back side	0.449	0.195	0.445
	Left side	0.194	0.309	0.758
	Right side	/	/	0.194
	Top side	0.383	0.363	0.363
	Bottom side	/	/	0.383
			0.132	0.132

LTE Band ULCA	Exposure position	Ant3	LTE B48	Inter-band CA Summed SAR
		1	Ant4	
LTE B66	Front side	0.114	2	1+2
	Back side	0.283	0.143	0.257
	Left side	0.026	0.392	0.675
	Right side	/	0.439	0.465
	Top side	/	/	/
	Bottom side	0.272	0.135	0.135
			/	0.272

Sum_ENDC(Head):

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n2	EN_DC Summed SAR	
		1	2	Ant0		
Band 5	Left Touch	0.229	/	3	1+3	2+3
	Left Tilt	0.120	/	0.537	0.766	0.537
	Right Touch	0.289	/	0.605	0.725	0.605
	Right Tilt	0.174	/	0.918	1.207	0.918
Band 12	Left Touch	0.191	/	0.813	0.987	0.813
	Left Tilt	0.107	/	0.537	0.728	0.537
	Right Touch	0.205	/	0.605	0.712	0.605
	Right Tilt	0.143	/	0.918	1.123	0.918
Band 66	Left Touch	/	0.103	0.813	0.956	0.813
	Left Tilt	/	0.016	0.537	0.537	0.640
	Right Touch	/	0.090	0.605	0.605	0.621
	Right Tilt	/	0.012	0.918	0.918	1.008
				0.813	0.813	0.825



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LTE Band (EN_DC)	Exposure position	Ant0	n5	EN_DC Summed SAR
			Ant2	
		1	2	1+2
Band 2	Left Touch	0.113	0.171	0.284
	Left Tilt	0.050	0.089	0.139
	Right Touch	0.077	0.291	0.368
	Right Tilt	0.047	0.131	0.178

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n7	EN_DC Summed SAR	
				Ant7		
		1	2	3	1+3	2+3
Band 5	Left Touch	0.229	/	0.182	0.411	0.182
	Left Tilt	0.120	/	0.117	0.237	0.117
	Right Touch	0.289	/	0.694	0.983	0.694
	Right Tilt	0.174	/	0.310	0.484	0.310
Band 66	Left Touch	/	0.103	0.182	0.182	0.285
	Left Tilt	/	0.016	0.117	0.117	0.133
	Right Touch	/	0.090	0.694	0.694	0.784
	Right Tilt	/	0.012	0.310	0.310	0.322

LTE Band (EN_DC)	Exposure position	Ant0	n12	EN_DC Summed SAR
			Ant2	
		1	2	1+2
Band 2	Left Touch	0.113	0.080	0.193
	Left Tilt	0.050	0.069	0.119
	Right Touch	0.077	0.214	0.291
	Right Tilt	0.047	0.098	0.145

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n41	EN_DC Summed SAR	
				Ant7		
		1	2	3	1+3	2+3
Band 2	Left Touch	/	0.113	0.206	0.206	0.319
	Left Tilt	/	0.050	0.098	0.098	0.148
	Right Touch	/	0.077	0.677	0.677	0.754
	Right Tilt	/	0.047	0.263	0.263	0.310
Band 12	Left Touch	0.191	/	0.206	0.397	0.206
	Left Tilt	0.107	/	0.098	0.205	0.098
	Right Touch	0.205	/	0.677	0.882	0.677
	Right Tilt	0.143	/	0.263	0.406	0.263



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Band 66	Left Touch	/	0.103	0.206	0.206	0.309
	Left Tilt	/	0.016	0.098	0.098	0.114
	Right Touch	/	0.090	0.677	0.677	0.767
	Right Tilt	/	0.012	0.263	0.263	0.275

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	Ant4	n66		EN_DC Summed SAR		
					Ant0	Ant3			
		1	2	3	4	5	1+4	2+4	3+5
Band 2	Left Touch	/	0.113	/	0.372	0.026	/	0.485	/
	Left Tilt	/	0.050	/	0.414	0.005	/	0.464	/
	Right Touch	/	0.077	/	0.691	0.022	/	0.768	/
	Right Tilt	/	0.047	/	0.568	0.003	/	0.615	/
Band 5	Left Touch	0.229	/	/	0.372	0.026	0.601	/	/
	Left Tilt	0.120	/	/	0.414	0.005	0.534	/	/
	Right Touch	0.289	/	/	0.691	0.022	0.980	/	/
	Right Tilt	0.174	/	/	0.568	0.003	0.742	/	/
Band 12	Left Touch	0.191	/	/	0.372	0.026	0.563	/	/
	Left Tilt	0.107	/	/	0.414	0.005	0.521	/	/
	Right Touch	0.205	/	/	0.691	0.022	0.896	/	/
	Right Tilt	0.143	/	/	0.568	0.003	0.711	/	/
Band 48	Left Touch	/	/	0.194	0.372	0.026	0.372	/	0.220
	Left Tilt	/	/	0.195	0.414	0.005	0.414	/	0.200
	Right Touch	/	/	0.933	0.691	0.022	0.691	/	0.955
	Right Tilt	/	/	0.462	0.568	0.003	0.568	/	0.465
Band 66	Left Touch	/	0.103	/	0.372	0.026	/	0.475	/
	Left Tilt	/	0.016	/	0.414	0.005	/	0.430	/
	Right Touch	/	0.090	/	0.691	0.022	/	0.781	/
	Right Tilt	/	0.012	/	0.568	0.003	/	0.580	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n78	EN_DC Summed SAR	
				Ant4		
		1	2	4	1+4	2+4
Band 2	Left Touch	/	0.113	0.238	0.238	0.351
	Left Tilt	/	0.050	0.242	0.242	0.292
	Right Touch	/	0.077	1.049	1.049	1.126
	Right Tilt	/	0.047	0.781	0.781	0.828
Band 4	Left Touch	/	0.036	0.238	0.238	0.274
	Left Tilt	/	0.019	0.242	0.242	0.261
	Right Touch	/	0.029	1.049	1.049	1.078
	Right Tilt	/	0.011	0.781	0.781	0.792



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Band 5	Left Touch	0.229	/	0.238	0.467	0.238
	Left Tilt	0.120	/	0.242	0.362	0.242
	Right Touch	0.289	/	1.049	1.338	1.049
	Right Tilt	0.174	/	0.781	0.955	0.781
Band 7	Left Touch	/	0.190	0.238	0.238	0.428
	Left Tilt	/	0.078	0.242	0.242	0.320
	Right Touch	/	0.112	1.049	1.049	1.161
	Right Tilt	/	0.075	0.781	0.781	0.856
Band 12	Left Touch	0.191	/	0.238	0.429	0.238
	Left Tilt	0.107	/	0.242	0.349	0.242
	Right Touch	0.205	/	1.049	1.254	1.049
	Right Tilt	0.143	/	0.781	0.924	0.781
Band 38	Left Touch	/	0.076	0.238	0.238	0.314
	Left Tilt	/	0.032	0.242	0.242	0.274
	Right Touch	/	0.065	1.049	1.049	1.114
	Right Tilt	/	0.038	0.781	0.781	0.819
Band 66	Left Touch	/	0.103	0.238	0.238	0.341
	Left Tilt	/	0.016	0.242	0.242	0.258
	Right Touch	/	0.090	1.049	1.049	1.139
	Right Tilt	/	0.012	0.781	0.781	0.793

Sum_ENDC(Body-Worn):

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n2	EN_DC Summed SAR	
		1	2	Ant0		
				3	1+3	2+3
Band 5	Front side	0.229	/	0.239	0.468	0.239
	Back side	0.449	/	0.365	0.814	0.365
Band 12	Front side	0.209	/	0.239	0.448	0.239
	Back side	0.292	/	0.365	0.657	0.365
Band 66	Front side	/	0.097	0.239	0.239	0.336
	Back side	/	0.195	0.365	0.365	0.560

LTE Band (EN_DC)	Exposure position	Ant0	n5	EN_DC Summed SAR
		1	Ant2	
			2	1+2
Band 2	Front side	0.130	0.171	0.301
	Back side	0.235	0.399	0.634



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LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n7	EN_DC Summed SAR	
		1	2	Ant7		
				3	1+3	2+3
Band 5	Front side	0.229	/	0.203	0.432	0.203
	Back side	0.449	/	0.479	0.928	0.479
Band 66	Front side	/	0.097	0.203	0.203	0.300
	Back side	/	0.195	0.479	0.479	0.674

LTE Band (EN_DC)	Exposure position	Ant0	n12	EN_DC Summed SAR
		1	Ant2	
			2	1+2
Band 2	Front side	0.130	0.196	0.326
	Back side	0.235	0.347	0.582

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n41	EN_DC Summed SAR	
		1	2	Ant7		
				3	1+3	2+3
Band 2	Front side	/	0.084	0.146	0.146	0.230
	Back side	/	0.181	0.322	0.322	0.503
Band 12	Front side	0.209	/	0.146	0.355	0.146
	Back side	0.292	/	0.322	0.614	0.322
Band 66	Front side	/	0.097	0.146	0.146	0.243
	Back side	/	0.195	0.322	0.322	0.517

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	Ant4	n66		EN_DC Summed SAR		
		1	2	3	Ant0	Ant3			
					4	5	1+4	2+4	3+5
Band 2	Front side	/	0.084	/	0.281	0.047	/	0.365	/
	Back side	/	0.181	/	0.327	0.089	/	0.508	/
Band 5	Front side	0.229	/	/	0.281	0.047	0.510	/	/
	Back side	0.449	/	/	0.327	0.089	0.776	/	/
Band 12	Front side	0.209	/	/	0.281	0.047	0.490	/	/
	Back side	0.292	/	/	0.327	0.089	0.619	/	/
Band 48	Front side	/	/	0.058	0.281	0.047	0.281	/	0.105
	Back side	/	/	0.122	0.327	0.089	0.327	/	0.211
Band 66	Front side	/	0.097	/	0.281	0.047	/	0.378	/
	Back side	/	0.195	/	0.327	0.089	/	0.522	/



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LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n78	EN_DC Summed SAR	
				Ant4		
		1	2	4	1+4	2+4
Band 2	Front side	/	0.084	0.176	0.176	0.260
	Back side	/	0.181	0.494	0.494	0.675
Band 4	Front side	/	0.071	0.176	0.176	0.247
	Back side	/	0.156	0.494	0.494	0.650
Band 5	Front side	0.229	/	0.176	0.405	0.176
	Back side	0.449	/	0.494	0.943	0.494
Band 7	Front side	/	0.069	0.176	0.176	0.245
	Back side	/	0.157	0.494	0.494	0.651
Band 12	Front side	0.209	/	0.176	0.385	0.176
	Back side	0.292	/	0.494	0.786	0.494
Band 38	Front side	/	0.119	0.176	0.176	0.295
	Back side	/	0.271	0.494	0.494	0.765
Band 66	Front side	/	0.097	0.176	0.176	0.273
	Back side	/	0.195	0.494	0.494	0.689

Sum_ENDC(Hotspot):

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n2	EN_DC Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
Band 5	Front side	0.298	/	0.323	0.621	0.323
	Back side	0.650	/	0.503	1.153	0.503
	Left side	/	/	0.272	0.272	0.272
	Right side	0.407	/	/	0.407	/
	Top side	/	/	0.648	0.648	0.648
	Bottom side	0.292	/	/	0.292	/
Band 12	Front side	0.195	/	0.323	0.518	0.323
	Back side	0.309	/	0.503	0.812	0.503
	Left side	/	/	0.272	0.272	0.272
	Right side	0.363	/	/	0.363	/
	Top side	/	/	0.648	0.648	0.648
	Bottom side	0.132	/	/	0.132	/
Band 66	Front side	/	0.114	0.323	0.323	0.437
	Back side	/	0.283	0.503	0.503	0.786
	Left side	/	0.026	0.272	0.272	0.298
	Right side	/	/	/	/	/
	Top side	/	/	0.648	0.648	0.648
	Bottom side	/	0.272	/	/	0.272



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LTE Band (EN_DC)	Exposure position	Ant0	n5	EN_DC Summed SAR
			Ant2	
		1	2	1+2
Band 2	Front side	0.424	0.304	0.728
	Back side	0.641	0.578	1.219
	Left side	0.309	/	0.309
	Right side	/	0.617	0.617
	Top side	0.734	/	0.734
	Bottom side	/	0.510	0.510

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n7	EN_DC Summed SAR	
				Ant7		
		1	2	3	1+3	2+3
Band 5	Front side	0.298	/	0.169	0.467	0.169
	Back side	0.650	/	0.436	1.086	0.436
	Left side	/	/	0.319	0.319	0.319
	Right side	0.407	/	/	0.407	/
	Top side	/	/	0.074	0.074	0.074
	Bottom side	0.292	/	/	0.292	/
Band 66	Front side	/	0.114	0.169	0.169	0.283
	Back side	/	0.283	0.436	0.436	0.719
	Left side	/	0.026	0.319	0.319	0.345
	Right side	/	/	/	/	/
	Top side	/	/	0.074	0.074	0.074
	Bottom side	/	0.272	/	/	0.272

LTE Band (EN_DC)	Exposure position	Ant0	n12	EN_DC Summed SAR
			Ant2	
		1	2	1+2
Band 2	Front side	0.424	0.211	0.635
	Back side	0.641	0.306	0.947
	Left side	0.309	/	0.309
	Right side	/	0.414	0.414
	Top side	0.734	/	0.734
	Bottom side	/	0.145	0.145



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LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n41	EN_DC Summed SAR	
		1	2	Ant7	1+3	2+3
Band 2	Front side	/	0.095	0.242	0.242	0.337
	Back side	/	0.190	0.600	0.600	0.790
	Left side	/	0.038	0.723	0.723	0.761
	Right side	/	/	/	/	/
	Top side	/	/	0.192	0.192	0.192
	Bottom side	/	0.175	/	/	0.175
Band 12	Front side	0.195	/	0.242	0.437	0.242
	Back side	0.309	/	0.600	0.909	0.600
	Left side	/	/	0.723	0.723	0.723
	Right side	0.363	/	/	0.363	/
	Top side	/	/	0.192	0.192	0.192
	Bottom side	0.132	/	/	0.132	/
Band 66	Front side	/	0.114	0.242	0.242	0.356
	Back side	/	0.283	0.600	0.600	0.883
	Left side	/	0.026	0.723	0.723	0.749
	Right side	/	/	/	/	/
	Top side	/	/	0.192	0.192	0.192
	Bottom side	/	0.272	/	/	0.272

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	Ant4	n66		EN_DC Summed SAR		
		1	2	3	Ant0	Ant3	1+4	2+4	3+5
Band 2	Front side	/	0.095	/	0.440	0.090	/	0.535	/
	Back side	/	0.190	/	0.654	0.207	/	0.844	/
	Left side	/	0.038	/	0.311	0.011	/	0.349	/
	Right side	/	/	/	/	/	/	/	/
	Top side	/	/	/	0.636	/	/	0.636	/
	Bottom side	/	0.175	/	/	0.186	/	0.175	/
Band 5	Front side	0.298	/	/	0.440	0.090	0.738	/	/
	Back side	0.650	/	/	0.654	0.207	1.304	/	/
	Left side	/	/	/	0.311	0.011	0.311	/	/
	Right side	0.407	/	/	/	/	0.407	/	/
	Top side	/	/	/	0.636	/	0.636	/	/
	Bottom side	0.292	/	/	/	0.186	0.292	/	/
Band 12	Front side	0.195	/	/	0.440	0.090	0.635	/	/
	Back side	0.309	/	/	0.654	0.207	0.963	/	/
	Left side	/	/	/	0.311	0.011	0.311	/	/
	Right side	0.363	/	/	/	/	0.363	/	/
	Top side	/	/	/	0.636	/	0.636	/	/
	Bottom side	0.132	/	/	/	0.186	0.132	/	/



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Band 48	Front side	/	/	0.143	0.440	0.090	0.440	/	0.233
	Back side	/	/	0.392	0.654	0.207	0.654	/	0.599
	Left side	/	/	0.439	0.311	0.011	0.311	/	0.450
	Right side	/	/	/	/	/	/	/	/
	Top side	/	/	0.135	0.636	/	0.636	/	0.135
	Bottom side	/	/	/	/	0.186	/	/	0.186
Band 66	Front side	/	0.114	/	0.440	0.090	/	0.554	/
	Back side	/	0.283	/	0.654	0.207	/	0.937	/
	Left side	/	0.026	/	0.311	0.011	/	0.337	/
	Right side	/	/	/	/	/	/	/	/
	Top side	/	/	/	0.636	/	/	0.636	/
	Bottom side	/	0.272	/	/	0.186	/	0.272	/

LTE Band (EN_DC)	Exposure position	Ant2	Ant3	n78	EN_DC Summed SAR	
				Ant4		
		1	2	4	1+4	2+4
Band 2	Front side	/	0.095	0.187	0.187	0.282
	Back side	/	0.190	0.673	0.673	0.863
	Left side	/	0.038	0.810	0.810	0.848
	Right side	/	/	/	/	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	/	0.175	/	/	0.175
Band 4	Front side	/	0.088	0.187	0.187	0.275
	Back side	/	0.201	0.673	0.673	0.874
	Left side	/	0.011	0.810	0.810	0.821
	Right side	/	/	/	/	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	/	0.160	/	/	0.160
Band 5	Front side	0.298	/	0.187	0.485	0.187
	Back side	0.650	/	0.673	1.323	0.673
	Left side	/	/	0.810	0.810	0.810
	Right side	0.407	/	/	0.407	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	0.292	/	/	0.292	/
Band 7	Front side	/	0.102	0.187	0.187	0.289
	Back side	/	0.277	0.673	0.673	0.950
	Left side	/	0.013	0.810	0.810	0.823
	Right side	/	/	/	/	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	/	0.190	/	/	0.190
Band 12	Front side	0.195	/	0.187	0.382	0.187
	Back side	0.309	/	0.673	0.982	0.673
	Left side	/	/	0.810	0.810	0.810
	Right side	0.363	/	/	0.363	/



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	Top side	/	/	0.245	0.245	0.245
	Bottom side	0.132	/	/	0.132	/
Band 38	Front side	/	0.115	0.187	0.187	0.302
	Back side	/	0.310	0.673	0.673	0.983
	Left side	/	0.015	0.810	0.810	0.825
	Right side	/	/	/	/	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	/	0.256	/	/	0.256
Band 66	Front side	/	0.114	0.187	0.187	0.301
	Back side	/	0.283	0.673	0.673	0.956
	Left side	/	0.026	0.810	0.810	0.836
	Right side	/	/	/	/	/
	Top side	/	/	0.245	0.245	0.245
	Bottom side	/	0.272	/	/	0.272



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10 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483) cDASY6 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-023	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-025	NCR	NCR
☒	Test Phantom	SPEAG	mmWave	SZ-WSR-A-029	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2025/04/27	2026/04/26
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2025/03/27	2026/03/26
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2025/01/15	2026/01/14
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
☒	E-Field Probe	SPEAG	ES3DV3	SZ-WSR-R-021	2024/12/10	2025/12/09
☒	E-Field Probe	SPEAG	EUmmWV4	SZ-WSR-M-048	2025/9/19	2026/9/18
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2025/06/18	2028/06/17
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2025/10/14	2028/10/13
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2025/06/18	2028/06/17
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	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	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Validation Kits	SPEAG	D6.5GHzV2	SZ-WSR-M-080	2023/09/11	2026/09/10
☒	5G Verification Source	SPEAG	10GHz	SZ-WSR-M-049	2024/08/20	2027/08/19
☒	Dielectric parameter probes	SPEAG	DAK-3.5	SZ-WSR-M-093	2024/11/18	2025/11/17
☒	Agilent Network Analyzer	Agilent	E5071C	SZ-WSR-M-067	2024/12/19	2025/12/18
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07
☒	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	2025/01/07	2026/01/06
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR



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☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2025/05/19	2026/05/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2025/05/16	2026/05/15
☒	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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11 Calibration certificate

Please see the Appendix C

12 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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