

FCC SAR TEST REPORT

Application No.: SUCR240200003401
Applicant: KonnectONE, Inc
Manufacturer: KonnectONE, Inc
Product Name: smartphone
Model No.(EUT): m2467
Trade Mark: Moxee
FCC ID: 2APQU-M2467
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024-04-11
Date of Test: 2024-04-11 to 2024-05-21
Date of Issue: 2024-05-22
Test conclusion: **PASS ***

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

Authorized Signature:

Well Wei

Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SUCR240200003401	01	Original	2024-05-22



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.12	0.33	0.33	/
GSM1900	1.09	0.58	0.58	/
WCDMA Band II	0.95	0.35	0.35	/
WCDMA Band IV	0.97	0.32	0.32	/
WCDMA Band V	0.32	0.63	0.63	/
LTE Band 12(17)	0.21	0.34	0.34	/
LTE Band 13	0.27	0.42	0.42	/
LTE Band 25(2)	0.59	0.28	0.28	/
LTE Band 26(5)	0.32	0.57	0.57	/
LTE Band 30	0.62	0.24	0.24	/
LTE Band 66(4)	0.74	0.36	0.36	/
LTE Band 71	0.20	0.32	0.32	/
LTE Band 41	0.10	0.39	0.39	/
LTE Band 48	0.64	0.28	0.28	/
NR Band n5	0.19	0.49	0.49	/
NR Band n25(2)	0.22	0.42	0.42	/
NR Band n66	0.27	0.76	0.76	/
NR Band n71	0.11	0.20	0.20	/
NR Band n41	0.08	0.38	0.38	/
NR Band n48	0.45	0.24	0.31	/
NR Band n77 Part27O	0.62	0.32	0.39	/
NR Band n77 Part27Q	0.55	0.26	0.35	/
WI-FI (2.4GHz)	0.73	0.19	0.19	/
WI-FI (5GHz)	0.87	0.37	0.37	0.63
BT	0.18	0.00	0.04	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.58	1.59	1.55	0.63
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Reviewed by

Nick Hu

Prepared by

Bert Xu



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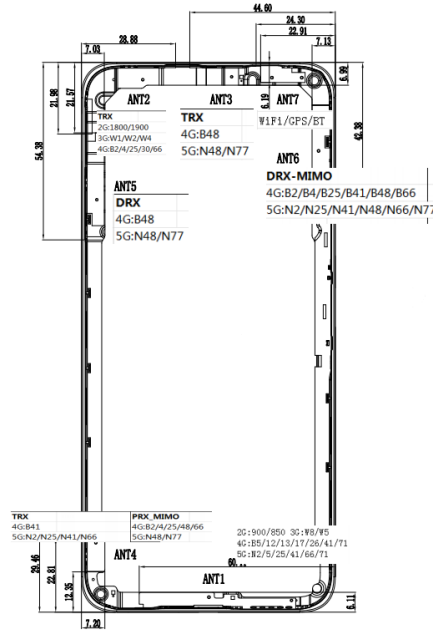


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1 DUT Antenna Locations (Back View)



Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 179 mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

According to the distance between 5G NR/LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Top	Bottom
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes

Table 1: EUT Sides for SAR Testing

Note:

- 1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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2 General Information

2.1 Details of Client

Applicant:	KonnectONE, Inc
Address:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
Manufacturer:	KonnectONE, Inc
Address:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

2.2 Test Location

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



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2.3 Test Facility

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

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

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

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

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	smartphone		
Model No.(EUT):	m2467		
Trade Mark:	Moxee		
FCC ID:	2APQU-M2467		
Product Phase:	Identical Prototype		
IMEI:	1# 357916025680198/357916025680196		
Hardware Version:	J610_6835D4UFM10_G30U		
Software Version:	m2467_V01		
Antenna Type:	Integrated		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM; LTE: QPSK,16QAM,64QAM; 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824 - 849	869 - 894
	GSM1900	1850 - 1910	1930 - 1990
	WCDMA Band II	1850 - 1910	1930 - 1990
	WCDMA Band IV	1710 - 1755	2110 - 2155
	WCDMA Band V	824 - 849	869 - 894
	LTE Band 2	1850 - 1910	1930 - 1990
	LTE Band 4	1710 - 1755	2110 - 2155
	LTE Band 5	824 - 849	869 - 894
	LTE Band 12	699 - 716	729 - 746
	LTE Band 13	777 - 787	746 - 756
	LTE Band 17	704 - 716	734 - 746
	LTE Band 25	1850 - 1915	1930 - 1995
	LTE Band 26	814 - 849	859 - 894
	LTE Band 30	2305 - 2315	2350 - 2360
	LTE Band 66	1710 - 1780	2110 - 2200
LTE Band 71	663 - 698	617 - 652	
LTE Band 41	2496 - 2690	2496 - 2690	



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	LTE Band 48	3550 - 3700	3550 - 3700
	NR Band n2	1850 - 1910	1930 - 1990
	NR Band n5	824 - 849	869 - 894
	NR Band n25	1850 - 1915	1930 - 1995
	NR Band n66	1710 - 1780	2110 - 2200
	NR Band n41	2496 - 2690	2496 - 2690
	NR Band n48	3550 - 3700	3550 - 3700
	NR Band n71	663 - 698	617 - 652
	NR Band n77	3450-3550	3450-3550
		3700-3980	3700-3980
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
5470~5725		5470~5725	
	5725~5850	5725~5850	
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	m2467	
	Normal Voltage:	3.87V	
	Rated capacity:	5150mAh	
	Manufacturer:	Shenzhen Jiuliyuan Electronic Technology Co., LTD	
<p>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.</p> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>			



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2.4.1 LTE CA additional specification

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

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

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

2CC Downlink Carrier Aggregation	2CC Downlink Carrier Aggregation	DL 4x4 MIMO
CA_2A-4A	CA_12A-30A	-
CA_2A-5A	CA_12A-66A	-
CA_2A-12A	CA_13A-30A	-
CA_2A-13A	CA_13A-66A	-
CA_2A-17A	-	-
CA_2A-66A	-	-
CA_4A-5A	-	-
CA_4A-12A	-	-
CA_4A-17A	-	-
CA_5A-12A	-	-
CA_5A-30A	-	-
CA_5A-66A	-	-



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2.4.2 Power reduction specification

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

- 1) A fixed level power reduction is applied for some frequency bands when 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. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 3) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.

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



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2.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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2.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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3 Laboratory Environment

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

Table 2: The Ambient Conditions



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4 SAR Measurements System Configuration

4.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

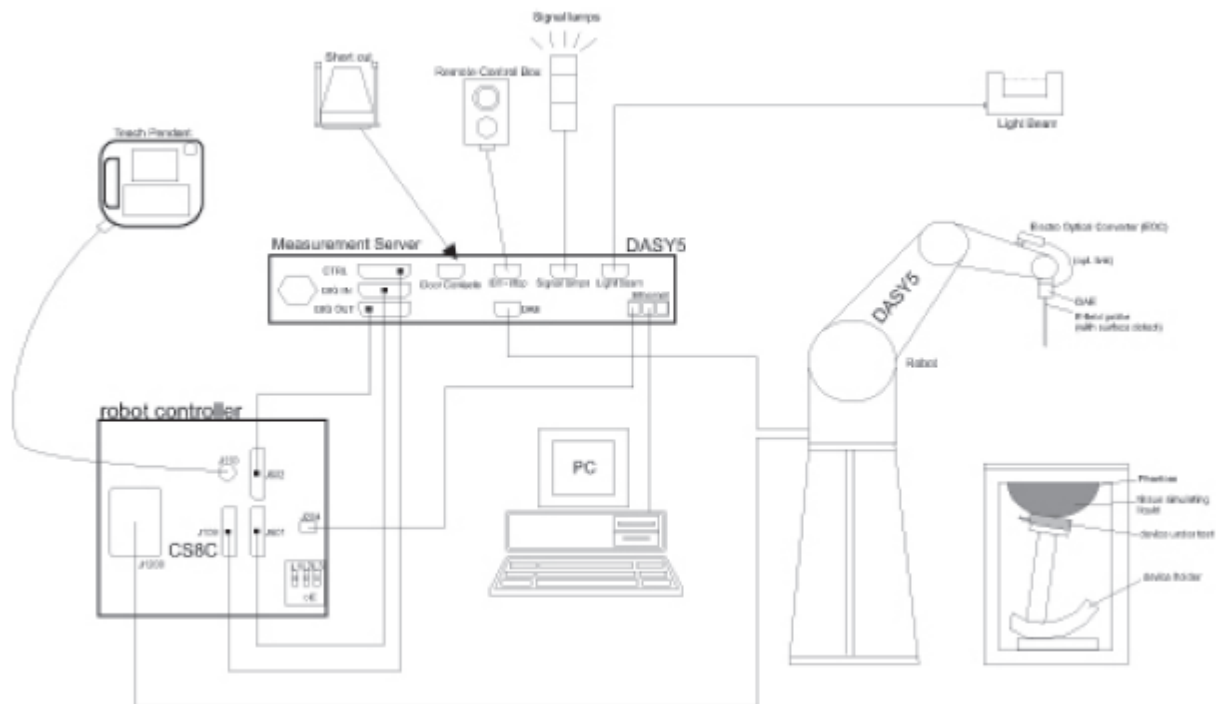
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration




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

4.2 Isotropic E-field Probe EX3DV4

	<p>Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
<p>Calibration</p>	<p>ISO/IEC 17025 <u>calibration service</u> available.</p>
<p>Frequency</p>	<p>10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)</p>
<p>Directivity</p>	<p>± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)</p>
<p>Dynamic Range</p>	<p>10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)</p>
<p>Dimensions</p>	<p>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</p>
<p>Application</p>	<p>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%.</p>
<p>Compatibility</p>	<p>DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI</p>




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4.3 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	

4.4 SAM Twin Phantom

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

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

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




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4.5 ELI Phantom

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

The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 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 of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a reinforced top structure.



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4.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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4.7 Measurement procedure

4.7.1 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.



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		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 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. $\pm 5\%$



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4.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “.DAE4”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

4.7.3 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:

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



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H-field probes:

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

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

Norm i = sensor sensitivity of channel i ($i = x, y, z$)
 [mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



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5 SAR measurement variability and uncertainty

5.1 SAR measurement variability

Per KDB865664 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 (~ 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.

5.2 SAR measurement uncertainty

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

IEC- 62209-1528 sets out the general test methods to be followed when carrying out an RF exposure compliance assessment of wireless devices implementing device-based time-averaging methods for the management and/or mitigation of specific absorption rate (SAR) in the 4 MHz to 6 GHz frequency band. It does not cover requirements that are based on power density above 6 GHz or requirements to protect against nerve stimulation for the frequency range from 3 kHz to 10MHz.

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 **23.34%**.

a	b	c	d	e = f(d,k)	g	i = C*g/e	K
Uncertainty Component	Section in P1528	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g ui (%)	Vi(Veff)
Measurement system							
Probe calibration	7.2.2.1	7.4	N	1	1	7.40	∞



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Axial isotropy	7.2.2.2	1.2	R	$\sqrt{3}$	1	0.69	∞
hemispherical isotropy	7.2.2.2	3.2	R	$\sqrt{3}$	1	1.85	∞
Linearity	7.2.2.3	0.9	R	$\sqrt{3}$	1	0.52	∞
Probe modulation response	7.2.2.4	0	R	$\sqrt{3}$	1	0.00	∞
Detection limits	7.2.2.5	0.25	R	$\sqrt{3}$	1	0.14	∞
Boundary effect	7.2.2.6	1.0	R	$\sqrt{3}$	1	0.58	∞
Readout electronics	7.2.2.7	0.3	N	1	1	0.30	∞
Response time	7.2.2.8	0	R	$\sqrt{3}$	1	0.00	∞
Integration time	7.2.2.9	2.6	R	$\sqrt{3}$	1	1.50	∞
RF ambient conditions – noise	7.2.4.5	3	R	$\sqrt{3}$	1	1.73	∞
RF ambient conditions – reflections	7.2.4.5	3	R	$\sqrt{3}$	1	1.73	∞
Probe positioner mech. restrictions	7.2.3.1	1.5	R	$\sqrt{3}$	1	0.87	∞
Probe positioning with respect to phantom shell	7.2.3.3	2.9	R	$\sqrt{3}$	1	1.67	∞
Post-processing	7.2.5	1	R	$\sqrt{3}$	1	0.58	∞
Test sample related							
Device holder uncertainty	7.2.3.4.2	3.6	N	1	1	3.60	∞
Test sample positioning	7.2.3.4.3	3.7	N	1	1	3.70	9
Power scaling	L.3	5.0	R	$\sqrt{3}$	1	2.89	∞
Drift of output power (measured SAR drift)	7.2.2.10	5	R	$\sqrt{3}$	1	2.89	∞
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	7.2.3.2	4	R	$\sqrt{3}$	1	2.31	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	1.90	∞
Liquid conductivity (meas.)	7.2.4.3	5.78	N	1	0.78	4.51	4
Liquid permittivity (meas.)	7.2.4.3	0.62	N	1	0.23	0.14	5
Liquid permittivity – temperature uncertainty	7.2.4.4	0.2	R	$\sqrt{3}$	0.78	0.09	∞
Liquid conductivity – temperature uncertainty	7.2.4.4	5.37	R	$\sqrt{3}$	0.23	0.71	∞
Combined standard uncertainty	RSS					11.67	417
Expanded uncertainty (95% CONFIDENCE INTERVAL)			K=2			23.34	



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6 Description of Test Position

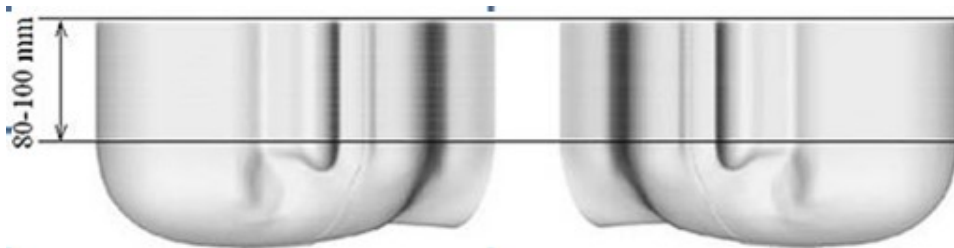
6.1 Head Exposure Condition

6.1.1 SAM Phantom Shape

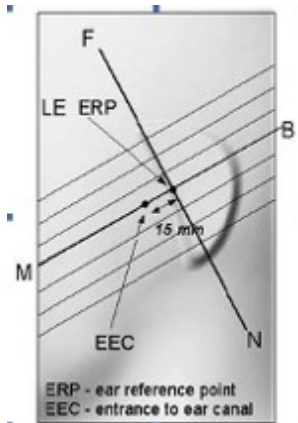


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

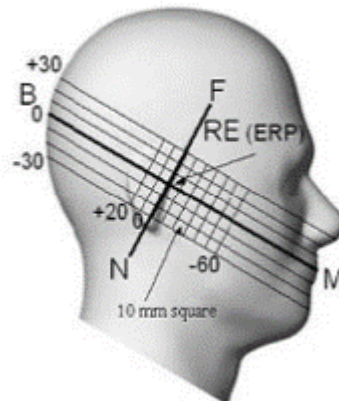
Note: The centre strip including the nose region has a different thickness tolerance.



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



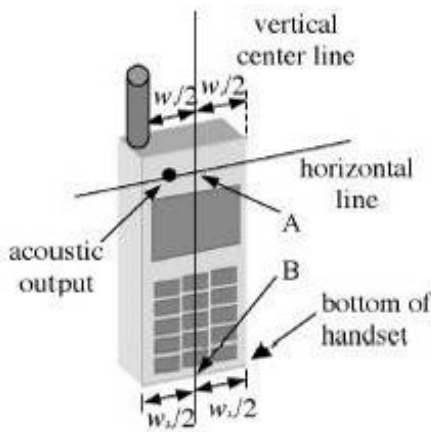
F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



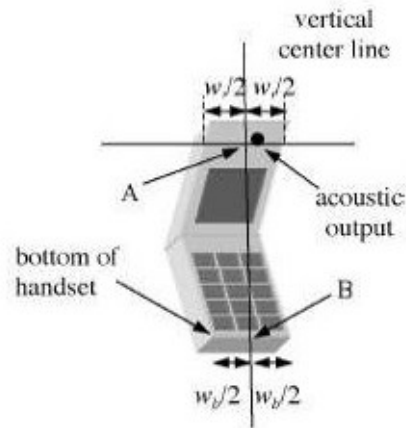
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6.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines—"fixed case"



F-8. Handset vertical and horizontal reference lines—"clam-shell case"

6.1.3 Definition of the "cheek" position

- 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.
- 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.



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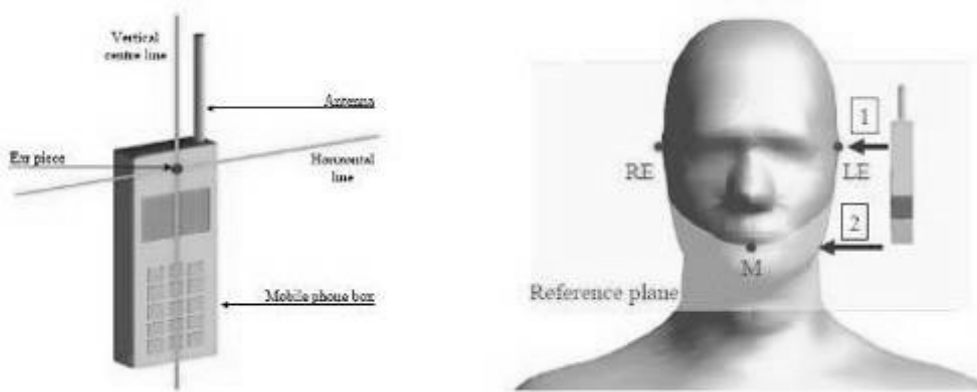
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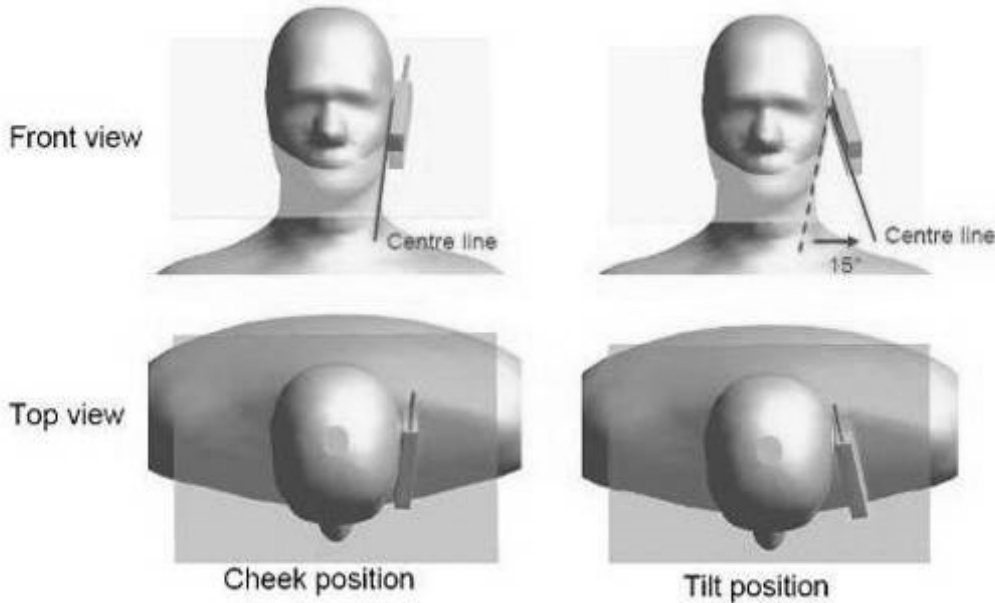
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6.1.4 Definition of the “tilted” position

- 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



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6.2 Body Exposure Condition

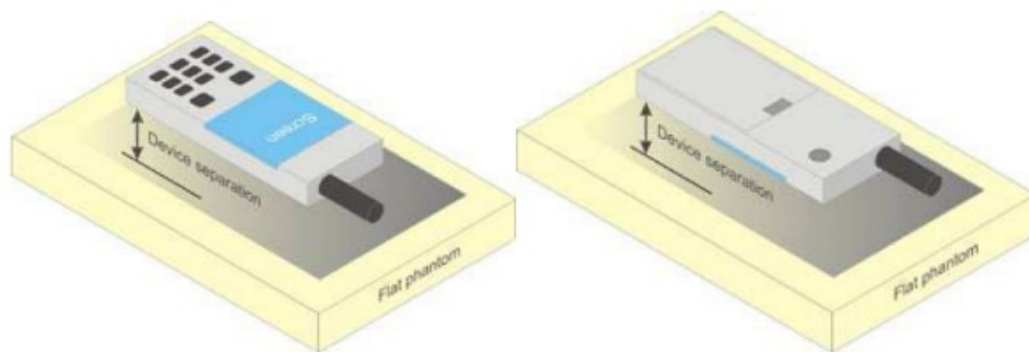
6.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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6.2.2 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 cm x 5 cm, a test separation distance of 5 mm is required.

6.3 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.

6.4 Hand exposure during a voice call (normative)

To determine if the procedure below is applicable, the following steps shall be performed:
Predict the hand specific absorption rate (SAR) at voice power levels based on interactive hand SAR test results. Interactive hand SAR tests are typically measured at reduced power levels with activated proximity sensors.

1. Predict hand SAR levels based on the power difference between interactive hand use power levels and head power levels.
2. If the predicted hand SAR at voice power levels are above the hand SAR limits (4 W/kg), the procedure below applies.
3. If the predicted hand SAR at voice power levels are below the hand SAR limits, the procedure below does not apply.

A flat phantom shall be used to assess limb SAR (10 g) during a voice call.

While a voice call is routed to earpiece, SAR measurements shall follow section 7.3.2 of IEC/IEEE 62209-1528 and be performed with the equipment under test positioned as follows:

1. placed directly against the flat phantom for the left, right and bottom edges of the device
2. placed within 10 mm of the flat phantom for the back side of the device

The device configuration shall be identical to that employed for head SAR measurements, therefore operating at maximum power and 100% duty cycle (or the maximum duty cycle inherent of the transmission technology or design of the equipment).



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7 SAR System Verification Procedure

7.1 Tissue Simulate Liquid

7.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients: Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3: Recipe of Tissue Simulate Liquid



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7.1.2 Measurement for Tissue Simulate Liquid

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

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	41.9	0.89	41.780	0.887	22.7	2024-4-11
835 Head	835	41.5	0.9	42.025	0.907	22.8	2024-4-13
1750 Head	1750	40.1	1.37	38.441	1.325	22.7	2024-4-19
1950 Head	1900	40	1.4	38.645	1.408	22.9	2024-4-21
2300 Head	2300	39.5	1.67	38.550	1.683	23.1	2024-4-23
2450 Head	2450	39.2	1.8	37.993	1.848	22.8	2024-4-24
2600 Head	2600	39	1.96	37.423	2.022	23.1	2024-4-26
3500 Head	3500	37.9	2.91	38.576	2.980	23.1	2024-5-17
3700 Head	3700	37.7	3.12	37.958	3.212	23.1	2024-5-19
3900 Head	3900	37.5	3.32	37.324	3.443	23.3	2024-5-21
5250 Head	5250	35.9	4.71	35.985	4.758	22.6	2024-4-28
5600 Head	5600	35.5	5.07	35.033	5.147	22.8	2024-4-30
5750 Head	5750	35.4	5.22	34.669	5.320	22.8	2024-5-2

Table 4: Measurement result of Tissue electric parameters.



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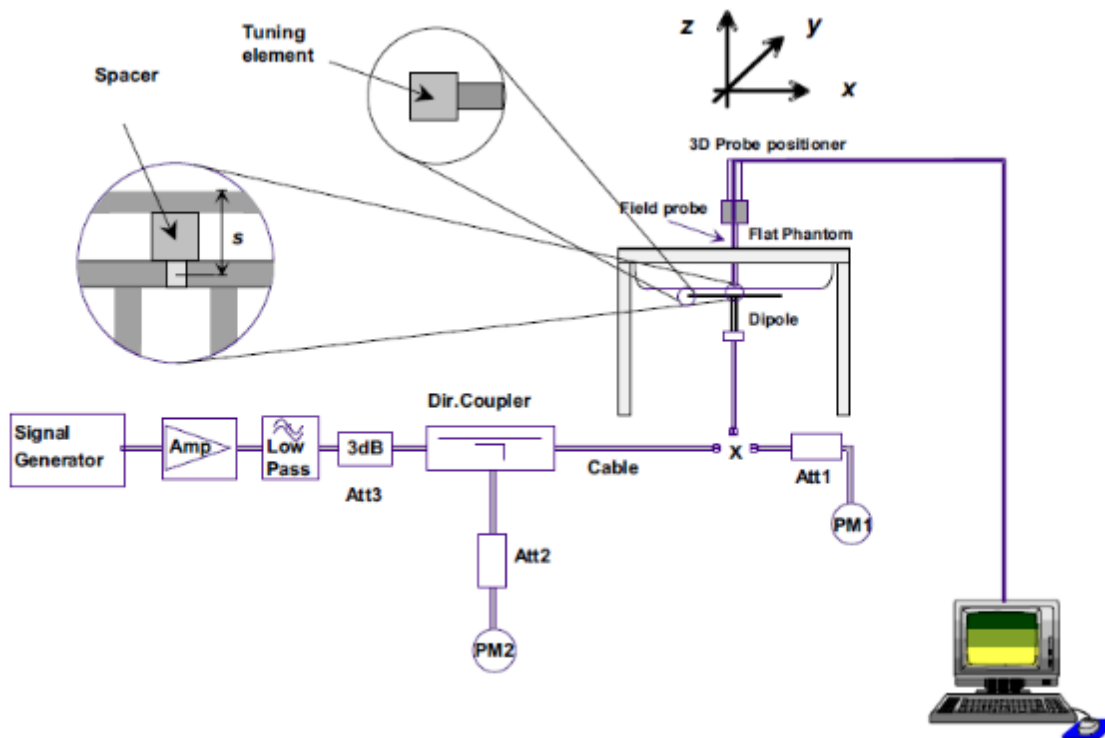
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7.2 SAR System Check

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



F-12. the microwave circuit arrangement used for SAR system check



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7.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, 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 10% 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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7.2.2 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	2.17	1.42	8.68	5.68	8.40	5.52	3.33%	2.90%	22.7	2024-4-11
D835V2	Head	2.53	1.64	10.12	6.56	9.60	6.16	5.42%	6.49%	22.8	2024-4-13
D1750V2	Head	9.58	5.03	38.32	20.12	37.00	19.30	3.57%	4.25%	22.7	2024-4-19
D1950V2	Head	10.70	5.49	42.80	21.96	40.40	20.80	5.94%	5.58%	22.9	2024-4-21
D2300V2	Head	12.7	6.09	50.80	24.36	49.50	24.00	2.63%	1.50%	23.1	2024-4-23
D2450V2	Head	13.20	6.21	52.80	24.84	52.70	24.60	0.19%	0.98%	22.8	2024-4-24
D2600V2	Head	14.50	6.47	58.00	25.88	57.30	25.40	1.22%	1.89%	23.1	2024-4-26
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.5GHz)	6.55	2.48	65.50	24.80	65.90	24.70	-0.61%	0.40%	23.1	2024-5-17
D3700V2	Head(3.7GHz)	6.42	2.31	64.20	23.10	67.60	24.40	-5.03%	-5.33%	23.1	2024-5-19
D3900V2	Head(3.9GHz)	7.47	2.58	74.70	25.80	70.20	24.20	6.41%	6.61%	23.3	2024-5-21
D5GHzV2	Head(5.25GHz)	7.37	2.12	73.70	21.20	77.20	21.90	-4.53%	-3.20%	22.6	2024-4-28
	Head(5.6GHz)	7.90	2.25	79.00	22.50	81.10	22.80	-2.59%	-1.32%	22.8	2024-4-30
	Head(5.75GHz)	7.91	2.21	79.10	22.10	77.80	21.70	1.67%	1.84%	22.8	2024-5-2

Table 5: SAR System Check Result.

7.2.3 Detailed System Check Results

Please see the Appendix A



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8 Test Configuration

8.1 3G SAR Test Reduction Procedure

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

8.2 Operation Configurations

8.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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



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8.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

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.



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Sub-test	β_c	Bd	$\beta_d(SF)$	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: ΔACK , $\Delta NACK$ 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, ΔACK and $\Delta NACK = 8$ (Ahs = 30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta CQI = 7$ (Ahs = 24/15) with $\beta_{hs} = 24/15 * \beta_c$.
 Note3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

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

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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

Table 7: HSDPA UE category

b) HSUPA

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



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Sub-test ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c/β_d ^c	β_{hs} ⁽¹⁾	β_{ec} ^c	β_{ed} ^c	β_c (SF) ^c	β_{ed} (code) ^c	CM ⁽²⁾ (dB) ^c	MP R ⁽³⁾ (dB) ^c	AG ⁽⁴⁾ Inde ^x	E-TFC I ^c
1 ^c	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^c	11/15 ⁽³⁾	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^c	15/15 ⁽⁴⁾	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^c
 Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ^c
 Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^c
 Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^c
 Note 6 : β_{ed} can not be set directly; it is set by Absolute Grant Value.^c

Table 8: Subtests for UMTS Release 6 HSUPA

UE Category	E-DCH Codes Transmitted	Maximum E-DCH	Number of HARQ Processes	of E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	4	10	4	7110	0.7296
2	2	8	8	2	4	2798	1.4592
	2	4	4	10	4	14484	
3	2	4	4	10	4	14484	1.4592
4	2	8	8	2	2	5772	2.9185
	2	4	4	10	2	20000	2.00
5	2	4	4	10	2	20000	2.00
6 (No DPDCH)	4	8	8	10	2SF2&2SF	11484	5.76
	4	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	8	2	2SF2&2SF	22996	?
	4	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 9: HSUPA UE category



c) DC-HSDPA

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

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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



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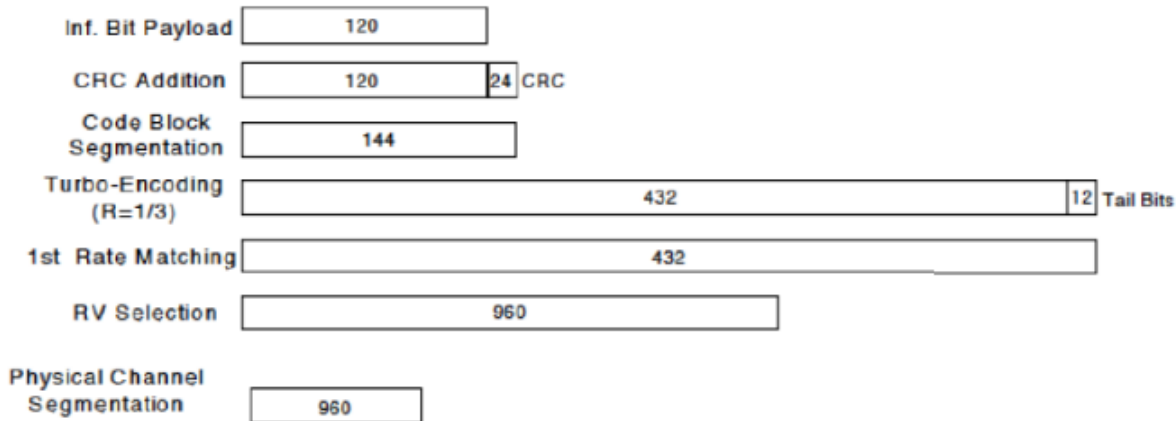


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

Note 1: Δ ACK, Δ NACK and Δ CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ ^o

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.^o

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 $\beta_d = 15/15$ ^o

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

Note:

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



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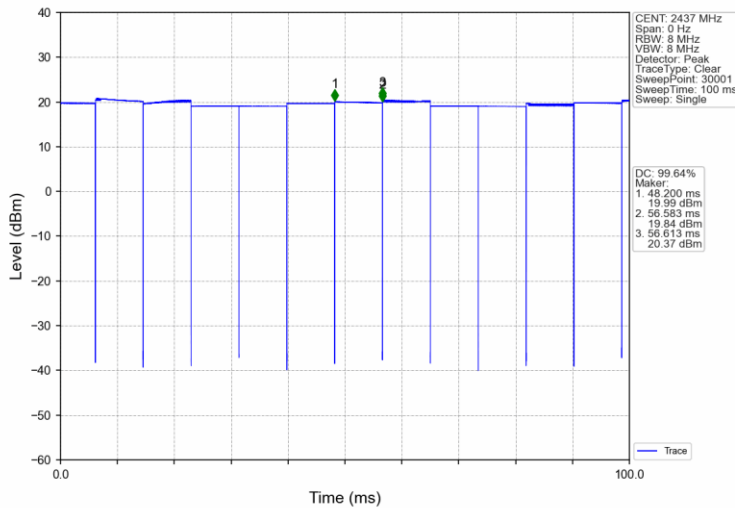
8.2.3 WiFi Test Configuration

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

8.2.3.1 Duty cycle

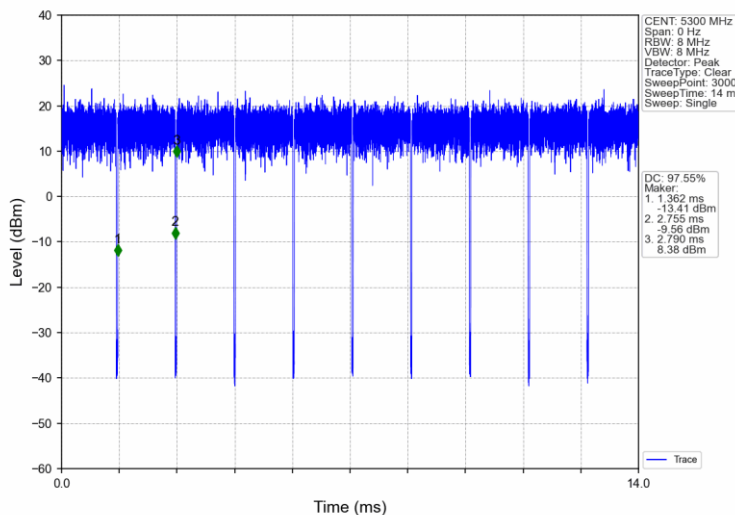
Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.64%



Wi-Fi 5GHz 802.11a:

Duty cycle=97.55%



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8.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

8.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

8.2.3.4 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



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band and exposure configuration.

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



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8.2.3.5 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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8.2.4 LTE Test Configuration

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

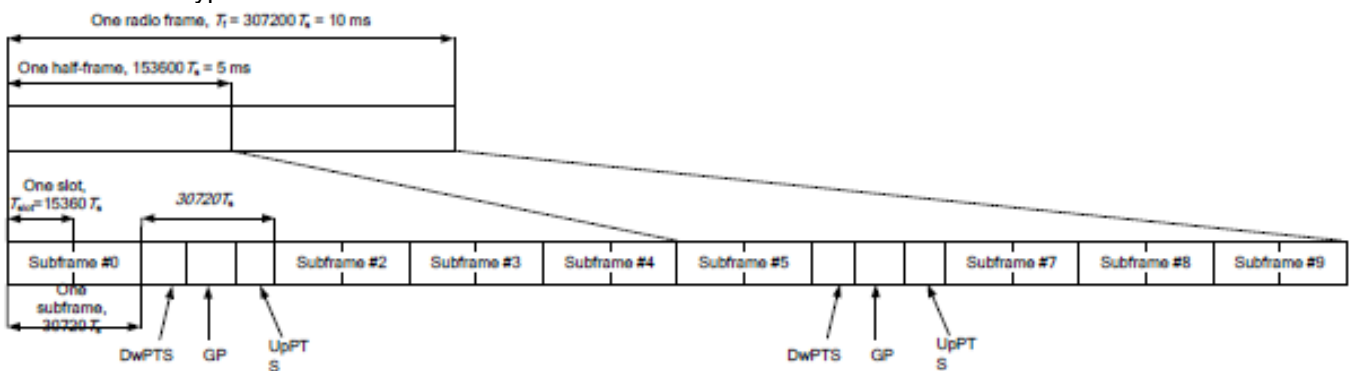
TDD LTE test consideration

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

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

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

Frame structure type 2:



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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-		
9	13168.Ts			-		

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



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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 (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

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 > ½ 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 > ½ 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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8.2.5 NR Band Test Configuration

1. NR Band n2/n5/n25/n41/n48/n66/n71/n77 support SA mode and n2/n5/n41/n66/n77 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2	LTE Band 4	LTE Band 66	LTE Band 30	LTE Band 12	LTE Band 13
		Ant2	Ant2	Ant2	Ant2	Ant1	Ant1
n5	Ant1	Yes	Yes	Yes	Yes	N/A	N/A
n2	Ant4	N/A	Yes	Yes	Yes	Yes	Yes
n66	Ant4	Yes	N/A	N/A	Yes	Yes	Yes
n48	Ant3	Yes	N/A	N/A	N/A	N/A	N/A

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

Band			N2	N5	N25	N41	N48	n66	N71	n77
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Duty Cycle		100%	100%	100%	100%	100%	100%	100%

Band	SCS	Bandwidth													
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz	
N2	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N5	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N25	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
N41	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	
N48	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
n66	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
N71	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n77	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	



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3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/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 ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

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

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	
	256 QAM		≤ 4.5	
CP-OFDM	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 n41, n77, n78. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n41, n77, n78 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 n41, n77, n78.

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

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

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

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

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

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

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 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

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

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
 Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
 The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
 The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



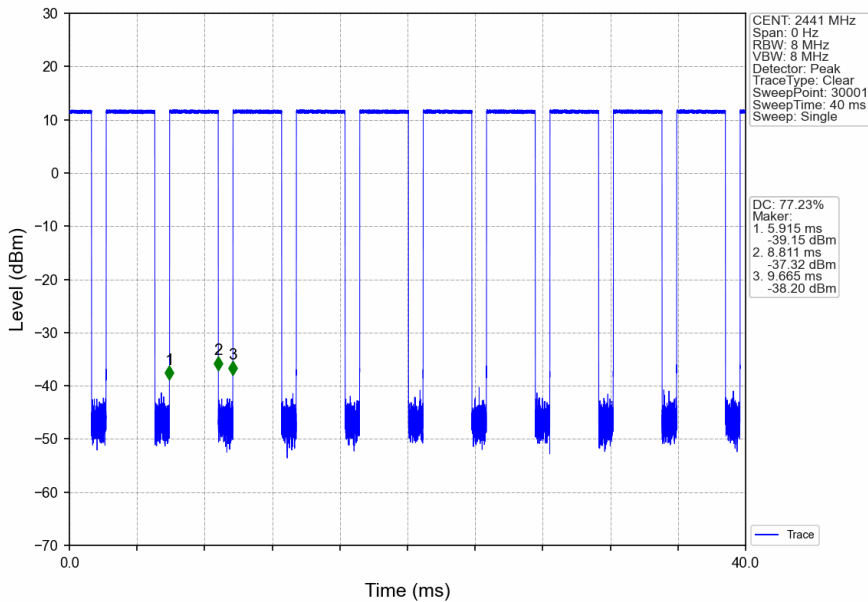
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- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.
BT DH5 Duty Cycle=77.23%



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9.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is select the worst presentation of the original report SEWM2304000137RG09 and this report. Graph results refer to Appendix B.
- 2) Per KDB447498 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) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

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

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.



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9.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.069	-0.10	28.47	29.50	1.268	0.087	22.8
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.048	0.09	28.47	29.50	1.268	0.061	22.8
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.092	-0.07	28.47	29.50	1.268	0.117	22.8
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.061	0.10	28.47	29.50	1.268	0.077	22.8
Body worn Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.156	0.13	28.47	29.50	1.268	0.198	22.8
Back side	GPRS 4TS	190/836.6	1:2.075	0.257	-0.05	28.47	29.50	1.268	0.326	22.8
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.156	0.13	28.47	29.50	1.268	0.198	22.8
Back side	GPRS 4TS	190/836.6	1:2.075	0.257	-0.05	28.47	29.50	1.268	0.326	22.8
Left side	GPRS 4TS	190/836.6	1:2.075	0.052	-0.18	28.47	29.50	1.268	0.066	22.8
Right side	GPRS 4TS	190/836.6	1:2.075	0.135	-0.16	28.47	29.50	1.268	0.171	22.8
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.209	0.13	28.47	29.50	1.268	0.265	22.8

Table 11: SAR of GSM850 for Head and Body.

9.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.237	-0.07	19.88	21.00	1.294	0.307	22.9
Left tilted	GPRS 4TS	661/1880	1:2.075	0.253	-0.04	19.88	21.00	1.294	0.327	22.9
Right cheek	GPRS 4TS	661/1880	1:2.075	0.842	0.02	19.88	21.00	1.294	1.090	22.9
Right cheek-Repeat SAR	GPRS 4TS	661/1880	1:2.075	0.839	0.05	19.88	21.00	1.294	1.086	22.9
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.792	0.10	19.84	21.00	1.306	1.034	22.9



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Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.708	-0.11	19.87	21.00	1.297	0.918	22.9
Right tilted	GPRS 4TS	661/1880	1:2.075	0.773	-0.18	19.88	21.00	1.294	1.000	22.9
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.734	-0.08	19.84	21.00	1.306	0.959	22.9
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.669	0.19	19.87	21.00	1.297	0.868	22.9
Body worn Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.295	-0.07	19.88	21.00	1.294	0.382	22.9
Back side	GPRS 4TS	661/1880	1:2.075	0.448	-0.04	19.88	21.00	1.294	0.580	22.9
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.295	-0.07	19.88	21.00	1.294	0.382	22.9
Back side	GPRS 4TS	661/1880	1:2.075	0.448	-0.04	19.88	21.00	1.294	0.580	22.9
Left side	GPRS 4TS	661/1880	1:2.075	0.292	0.05	19.88	21.00	1.294	0.378	22.9
Top side	GPRS 4TS	661/1880	1:2.075	0.335	0.06	19.88	21.00	1.294	0.434	22.9

Table 12: SAR of GSM1900 for Head and Body.

9.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record										
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.240	-0.14	18.34	19.00	1.164	0.279	22.9
Left tilted	RMC	9400/1880	1:1	0.256	0.03	18.34	19.00	1.164	0.298	22.9
Right cheek	RMC	9400/1880	1:1	0.816	0.14	18.34	19.00	1.164	0.950	22.9
Right cheek	RMC	9262/1852.4	1:1	0.739	0.16	18.32	19.00	1.169	0.864	22.9
Right cheek	RMC	9538/1907.6	1:1	0.785	-0.18	18.32	19.00	1.169	0.918	22.9
Right tilted	RMC	9400/1880	1:1	0.711	-0.17	18.34	19.00	1.164	0.828	22.9
Right tilted	RMC	9262/1852.4	1:1	0.739	-0.15	18.32	19.00	1.169	0.864	22.9
Right tilted	RMC	9538/1907.6	1:1	0.785	0.10	18.32	19.00	1.169	0.918	22.9
Body worn Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.180	-0.17	18.34	19.00	1.164	0.210	22.9
Back side	RMC	9400/1880	1:1	0.304	-0.07	18.34	19.00	1.164	0.354	22.9
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.180	-0.17	18.34	19.00	1.164	0.210	22.9



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Back side	RMC	9400/1880	1:1	0.304	-0.07	18.34	19.00	1.164	0.354	22.9
Left side	RMC	9400/1880	1:1	0.170	0.18	18.34	19.00	1.164	0.198	22.9
Top side	RMC	9400/1880	1:1	0.211	-0.18	18.34	19.00	1.164	0.246	22.9

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

9.2.4 SAR Result of WCDMA Band IV

W B4 SAR Test Record										
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.402	-0.10	18.20	19.00	1.202	0.483	22.7
Left tilted	RMC	1412/1732.4	1:1	0.281	0.17	18.20	19.00	1.202	0.338	22.7
Right cheek	RMC	1412/1732.4	1:1	0.810	-0.03	18.20	19.00	1.202	0.974	22.7
Right cheek-Repeat SAR	RMC	1412/1732.4	1:1	0.805	0.01	18.20	19.00	1.202	0.968	22.7
Right cheek	RMC	1312/1712.4	1:1	0.744	-0.09	18.11	19.00	1.227	0.913	22.7
Right cheek	RMC	1513/1752.6	1:1	0.784	0.02	18.14	19.00	1.219	0.956	22.7
Right tilted	RMC	1412/1732.4	1:1	0.565	0.18	18.20	19.00	1.202	0.679	22.7
Body worn Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.158	0.18	18.20	19.00	1.202	0.190	22.7
Back side	RMC	1412/1732.4	1:1	0.267	0.07	18.20	19.00	1.202	0.321	22.7
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.158	0.18	18.20	19.00	1.202	0.190	22.7
Back side	RMC	1412/1732.4	1:1	0.267	0.07	18.20	19.00	1.202	0.321	22.7
Left side	RMC	1412/1732.4	1:1	0.154	0.05	18.20	19.00	1.202	0.185	22.7
Top side	RMC	1412/1732.4	1:1	0.071	0.16	18.20	19.00	1.202	0.085	22.7

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

9.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record										
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)



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Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.203	-0.11	22.37	23.50	1.297	0.263	22.8
Left tilted	RMC	4182/836.4	1:1	0.150	0.10	22.37	23.50	1.297	0.195	22.8
Right cheek	RMC	4182/836.4	1:1	0.243	-0.05	22.37	23.50	1.297	0.315	22.8
Right tilted	RMC	4182/836.4	1:1	0.159	-0.02	22.37	23.50	1.297	0.206	22.8
Body worn Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.295	-0.16	22.37	23.50	1.297	0.383	22.8
Back side	RMC	4182/836.4	1:1	0.484	0.08	22.37	23.50	1.297	0.628	22.8
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.295	-0.16	22.37	23.50	1.297	0.383	22.8
Back side	RMC	4182/836.4	1:1	0.484	0.08	22.37	23.50	1.297	0.628	22.8
Left side	RMC	4182/836.4	1:1	0.060	0.03	22.37	23.50	1.297	0.078	22.8
Right side	RMC	4182/836.4	1:1	0.259	-0.14	22.37	23.50	1.297	0.336	22.8
Bottom side	RMC	4182/836.4	1:1	0.341	0.06	22.37	23.50	1.297	0.442	22.8

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

9.2.6 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.149	0.05	23.36	24.50	1.300	0.194	22.7
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.089	0.12	23.36	24.50	1.300	0.116	22.7
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.161	-0.08	23.36	24.50	1.300	0.209	22.7
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.107	0.14	23.36	24.50	1.300	0.139	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.115	0.11	22.35	23.50	1.303	0.150	22.7
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.068	-0.03	22.35	23.50	1.303	0.089	22.7
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.124	0.18	22.35	23.50	1.303	0.162	22.7
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.082	0.02	22.35	23.50	1.303	0.107	22.7
Body worn Test data(Separate 10mm 1RB)											



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Front side	10	QPSK 1_0	23095/707.5	1:1	0.147	-0.01	23.36	24.50	1.300	0.191	22.7
Back side	10	QPSK 1_0	23095/707.5	1:1	0.258	0.14	23.36	24.50	1.300	0.335	22.7
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.111	0.02	22.35	23.50	1.303	0.145	22.7
Back side	10	QPSK 25_0	23095/707.5	1:1	0.235	0.15	22.35	23.50	1.303	0.306	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.147	-0.01	23.36	24.50	1.300	0.191	22.7
Back side	10	QPSK 1_0	23095/707.5	1:1	0.258	0.14	23.36	24.50	1.300	0.335	22.7
Left side	10	QPSK 1_0	23095/707.5	1:1	0.117	-0.04	23.36	24.50	1.300	0.152	22.7
Right side	10	QPSK 1_0	23095/707.5	1:1	0.177	0.15	23.36	24.50	1.300	0.230	22.7
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.191	-0.11	23.36	24.50	1.300	0.248	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.111	0.02	22.35	23.50	1.303	0.145	22.7
Back side	10	QPSK 25_0	23095/707.5	1:1	0.235	0.15	22.35	23.50	1.303	0.306	22.7
Left side	10	QPSK 25_0	23095/707.5	1:1	0.090	0.17	22.35	23.50	1.303	0.117	22.7
Right side	10	QPSK 25_0	23095/707.5	1:1	0.151	-0.10	22.35	23.50	1.303	0.197	22.7
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.174	-0.14	22.35	23.50	1.303	0.227	22.7

Table 16: SAR of LTE Band 12 for Head and Body.

9.2.7 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.180	-0.14	23.21	24.50	1.346	0.242	22.7
Left tilted	10	QPSK 1_0	23230/782	1:1	0.135	0.01	23.21	24.50	1.346	0.182	22.7
Right cheek	10	QPSK 1_0	23230/782	1:1	0.203	-0.06	23.21	24.50	1.346	0.273	22.7
Right tilted	10	QPSK 1_0	23230/782	1:1	0.148	-0.11	23.21	24.50	1.346	0.199	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.142	0.07	22.27	23.50	1.327	0.188	22.7
Left tilted	10	QPSK 25_0	23230/782	1:1	0.106	0.12	22.27	23.50	1.327	0.141	22.7



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Right cheek	10	QPSK 25_0	23230/782	1:1	0.160	0.07	22.27	23.50	1.327	0.212	22.7
Right tilted	10	QPSK 25_0	23230/782	1:1	0.117	-0.02	22.27	23.50	1.327	0.155	22.7
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.208	0.17	23.21	24.50	1.346	0.280	22.7
Back side	10	QPSK 1_0	23230/782	1:1	0.314	0.06	23.21	24.50	1.346	0.423	22.7
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.164	0.05	22.27	23.50	1.327	0.218	22.7
Back side	10	QPSK 25_0	23230/782	1:1	0.247	-0.11	22.27	23.50	1.327	0.328	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.208	0.17	23.21	24.50	1.346	0.280	22.7
Back side	10	QPSK 1_0	23230/782	1:1	0.314	0.06	23.21	24.50	1.346	0.423	22.7
Left side	10	QPSK 1_0	23230/782	1:1	0.104	0.08	23.21	24.50	1.346	0.140	22.7
Right side	10	QPSK 1_0	23230/782	1:1	0.175	0.19	23.21	24.50	1.346	0.236	22.7
Bottom side	10	QPSK 1_0	23230/782	1:1	0.272	0.08	23.21	24.50	1.346	0.366	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.164	0.05	22.27	23.50	1.327	0.218	22.7
Back side	10	QPSK 25_0	23230/782	1:1	0.247	-0.11	22.27	23.50	1.327	0.328	22.7
Left side	10	QPSK 25_0	23230/782	1:1	0.082	-0.05	22.27	23.50	1.327	0.109	22.7
Right side	10	QPSK 25_0	23230/782	1:1	0.138	-0.17	22.27	23.50	1.327	0.183	22.7
Bottom side	10	QPSK 25_0	23230/782	1:1	0.214	0.14	22.27	23.50	1.327	0.284	22.7

Table 17: SAR of LTE Band 13 for Head and Body.

9.2.8 SAR Result of LTE Band 25

LTE Band 25 SAR Test Record											
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	26365/1882.5	1:1	0.135	-0.02	14.27	15.00	1.183	0.160	22.9
Left tilted	20	QPSK 1_0	26365/1882.5	1:1	0.148	0.19	14.27	15.00	1.183	0.175	22.9
Right cheek	20	QPSK 1_0	26365/1882.5	1:1	0.502	-0.02	14.27	15.00	1.183	0.594	22.9
Right tilted	20	QPSK 1_0	26365/1882.5	1:1	0.467	0.02	14.27	15.00	1.183	0.552	22.9



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Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.112	-0.13	13.32	14.00	1.169	0.131	22.9
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.113	0.19	13.32	14.00	1.169	0.132	22.9
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.388	-0.02	13.32	14.00	1.169	0.454	22.9
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.361	0.11	13.32	14.00	1.169	0.422	22.9
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.148	0.04	14.27	15.00	1.183	0.175	22.9
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.233	0.16	14.27	15.00	1.183	0.276	22.9
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.114	0.15	13.32	14.00	1.169	0.133	22.9
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.181	-0.14	13.32	14.00	1.169	0.212	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.148	0.04	14.27	15.00	1.183	0.175	22.9
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.233	0.16	14.27	15.00	1.183	0.276	22.9
Left side	20	QPSK 1_0	26365/1882.5	1:1	0.135	0.14	14.27	15.00	1.183	0.160	22.9
Top side	20	QPSK 1_0	26365/1882.5	1:1	0.172	-0.09	14.27	15.00	1.183	0.203	22.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.114	0.15	13.32	14.00	1.169	0.133	22.9
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.181	-0.14	13.32	14.00	1.169	0.212	22.9
Left side	20	QPSK 50_0	26365/1882.5	1:1	0.105	0.00	13.32	14.00	1.169	0.123	22.9
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.133	-0.08	13.32	14.00	1.169	0.156	22.9

Table 18: SAR of LTE Band 25 for Head and Body.

9.2.9 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.227	-0.10	23.56	24.50	1.242	0.282	22.8
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.154	0.03	23.56	24.50	1.242	0.191	22.8
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.261	-0.09	23.56	24.50	1.242	0.324	22.8



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Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.177	0.18	23.56	24.50	1.242	0.220	22.8
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.124	-0.05	22.48	23.50	1.265	0.157	22.8
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.085	-0.19	22.48	23.50	1.265	0.108	22.8
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.144	0.10	22.48	23.50	1.265	0.182	22.8
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.097	-0.11	22.48	23.50	1.265	0.123	22.8
Body worn Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.293	-0.16	23.56	24.50	1.242	0.364	22.8
Back side	15	QPSK 1_0	26865/831.5	1:1	0.461	0.11	23.56	24.50	1.242	0.572	22.8
Body worn Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.161	-0.14	22.48	23.50	1.265	0.204	22.8
Back side	15	QPSK 36_0	26865/831.5	1:1	0.253	0.19	22.48	23.50	1.265	0.320	22.8
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.293	-0.16	23.56	24.50	1.242	0.364	22.8
Back side	15	QPSK 1_0	26865/831.5	1:1	0.461	0.11	23.56	24.50	1.242	0.572	22.8
Left side	15	QPSK 1_0	26865/831.5	1:1	0.151	-0.11	23.56	24.50	1.242	0.187	22.8
Right side	15	QPSK 1_0	26865/831.5	1:1	0.318	-0.18	23.56	24.50	1.242	0.395	22.8
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.335	0.06	23.56	24.50	1.242	0.416	22.8
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.161	-0.14	22.48	23.50	1.265	0.204	22.8
Back side	15	QPSK 36_0	26865/831.5	1:1	0.253	0.19	22.48	23.50	1.265	0.320	22.8
Left side	15	QPSK 36_0	26865/831.5	1:1	0.083	-0.12	22.48	23.50	1.265	0.105	22.8
Right side	15	QPSK 36_0	26865/831.5	1:1	0.174	0.02	22.48	23.50	1.265	0.220	22.8
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.184	0.11	22.48	23.50	1.265	0.233	22.8

Table 19: SAR of LTE Band 26 for Head and Body.

9.2.10 SAR Result of LTE Band 30

LTE Band 30 SAR Test Record											
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											



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Left cheek	10	QPSK 1_0	27710/2310	1:1	0.251	0.04	11.71	13.00	1.346	0.338	23.1
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.289	0.01	11.71	13.00	1.346	0.389	23.1
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.464	0.01	11.71	13.00	1.346	0.624	23.1
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.456	0.04	11.71	13.00	1.346	0.614	23.1
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.201	-0.14	10.80	12.00	1.318	0.265	23.1
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.233	0.10	10.80	12.00	1.318	0.307	23.1
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.360	0.18	10.80	12.00	1.318	0.475	23.1
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.353	0.10	10.80	12.00	1.318	0.465	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.126	0.01	11.71	13.00	1.346	0.170	23.1
Back side	10	QPSK 1_0	27710/2310	1:1	0.178	0.09	11.71	13.00	1.346	0.240	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.097	0.18	10.80	12.00	1.318	0.128	23.1
Back side	10	QPSK 25_0	27710/2310	1:1	0.136	0.19	10.80	12.00	1.318	0.179	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.126	0.01	11.71	13.00	1.346	0.170	23.1
Back side	10	QPSK 1_0	27710/2310	1:1	0.178	0.09	11.71	13.00	1.346	0.240	23.1
Left side	10	QPSK 1_0	27710/2310	1:1	0.048	0.18	11.71	13.00	1.346	0.065	23.1
Top side	10	QPSK 1_0	27710/2310	1:1	0.164	0.14	11.71	13.00	1.346	0.221	23.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.097	0.18	10.80	12.00	1.318	0.128	23.1
Back side	10	QPSK 25_0	27710/2310	1:1	0.136	0.19	10.80	12.00	1.318	0.179	23.1
Left side	10	QPSK 25_0	27710/2310	1:1	0.037	-0.01	10.80	12.00	1.318	0.049	23.1
Top side	10	QPSK 25_0	27710/2310	1:1	0.128	-0.09	10.80	12.00	1.318	0.169	23.1

Table 20: SAR of LTE Band 30 for Head and Body.

9.2.11 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record											
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)



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Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.284	0.05	15.79	17.00	1.321	0.375	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.201	0.08	15.79	17.00	1.321	0.266	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.556	-0.01	15.79	17.00	1.321	0.735	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.394	-0.06	15.79	17.00	1.321	0.521	22.7
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.210	0.01	14.88	16.00	1.294	0.272	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.149	0.09	14.88	16.00	1.294	0.193	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.409	0.18	14.88	16.00	1.294	0.529	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.308	-0.14	14.88	16.00	1.294	0.399	22.7
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.156	0.08	15.79	17.00	1.321	0.206	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.275	-0.06	15.79	17.00	1.321	0.363	22.7
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.116	0.03	14.88	16.00	1.294	0.150	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.244	0.01	14.88	16.00	1.294	0.316	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.156	0.08	15.79	17.00	1.321	0.206	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.275	-0.06	15.79	17.00	1.321	0.363	22.7
Left side	20	QPSK 1_0	132072/1720	1:1	0.136	0.05	15.79	17.00	1.321	0.180	22.7
Top side	20	QPSK 1_0	132322/1745	1:1	0.071	0.09	15.79	17.00	1.321	0.094	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.116	0.03	14.88	16.00	1.294	0.150	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.244	0.01	14.88	16.00	1.294	0.316	22.7
Left side	20	QPSK 50_0	132322/1745	1:1	0.118	-0.09	14.88	16.00	1.294	0.153	22.7
Top side	20	QPSK 50_0	132322/1745	1:1	0.053	0.14	14.88	16.00	1.294	0.069	22.7

Table 21: SAR of LTE Band 66 for Head and Body.

9.2.1 SAR Result of LTE Band 71

LTE Band 71 SAR Test Record	
Ant 1 Test Record	



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	133322/683	1:1	0.137	-0.02	23.39	24.50	1.291	0.177	22.7
Left tilted	20	QPSK 1_0	133322/683	1:1	0.074	-0.04	23.39	24.50	1.291	0.096	22.7
Right cheek	20	QPSK 1_0	133322/683	1:1	0.157	0.05	23.39	24.50	1.291	0.203	22.7
Right tilted	20	QPSK 1_0	133322/683	1:1	0.093	0.07	23.39	24.50	1.291	0.120	22.7
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	133322/683	1:1	0.129	0.19	23.15	23.50	1.084	0.140	22.7
Left tilted	20	QPSK 50_0	133322/683	1:1	0.070	0.19	23.15	23.50	1.084	0.076	22.7
Right cheek	20	QPSK 50_0	133322/683	1:1	0.149	-0.11	23.15	23.50	1.084	0.162	22.7
Right tilted	20	QPSK 50_0	133322/683	1:1	0.087	-0.03	23.15	23.50	1.084	0.094	22.7
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	133322/683	1:1	0.123	0.04	23.39	24.50	1.291	0.159	22.7
Back side	20	QPSK 1_0	133322/683	1:1	0.244	0.03	23.39	24.50	1.291	0.315	22.7
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	133322/683	1:1	0.116	0.07	23.15	23.50	1.084	0.126	22.7
Back side	20	QPSK 50_0	133322/683	1:1	0.173	0.05	23.15	23.50	1.084	0.188	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	133322/683	1:1	0.123	0.04	23.39	24.50	1.291	0.159	22.7
Back side	20	QPSK 1_0	133322/683	1:1	0.244	0.03	23.39	24.50	1.291	0.315	22.7
Left side	20	QPSK 1_0	133322/683	1:1	0.084	0.03	23.39	24.50	1.291	0.108	22.7
Right side	20	QPSK 1_0	133322/683	1:1	0.212	-0.10	23.39	24.50	1.291	0.274	22.7
Bottom side	20	QPSK 1_0	133322/683	1:1	0.154	-0.05	23.39	24.50	1.291	0.199	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	133322/683	1:1	0.116	0.07	23.15	23.50	1.084	0.126	22.7
Back side	20	QPSK 50_0	133322/683	1:1	0.173	0.05	23.15	23.50	1.084	0.188	22.7
Left side	20	QPSK 50_0	133322/683	1:1	0.079	0.14	23.15	23.50	1.084	0.086	22.7
Right side	20	QPSK 50_0	133322/683	1:1	0.225	-0.15	23.15	23.50	1.084	0.244	22.7
Bottom side	20	QPSK 50_0	133322/683	1:1	0.145	0.06	23.15	23.50	1.084	0.157	22.7

Table 22: SAR of LTE Band 71 for Head and Body.



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9.2.2 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.085	0.01	23.20	24.00	1.202	0.102	23.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.051	-0.11	23.20	24.00	1.202	0.061	23.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.071	0.03	23.20	24.00	1.202	0.085	23.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.058	0.02	23.20	24.00	1.202	0.070	23.1
Left cheek-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.069	0.01	24.32	25.00	1.169	0.081	23.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.068	0.16	22.19	23.00	1.205	0.082	23.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.041	-0.08	22.19	23.00	1.205	0.049	23.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.058	0.13	22.19	23.00	1.205	0.070	23.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.046	0.17	22.19	23.00	1.205	0.055	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.187	-0.13	23.20	24.00	1.202	0.225	23.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.326	0.02	23.20	24.00	1.202	0.392	23.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.265	-0.09	24.32	25.00	1.169	0.310	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.123	0.16	22.19	23.00	1.205	0.148	23.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.214	-0.06	22.19	23.00	1.205	0.258	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.187	-0.13	23.20	24.00	1.202	0.225	23.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.326	0.02	23.20	24.00	1.202	0.392	23.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.304	0.16	23.20	24.00	1.202	0.365	23.1
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.141	-0.08	23.20	24.00	1.202	0.170	23.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.265	-0.09	24.32	25.00	1.169	0.310	23.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.151	0.16	22.19	23.00	1.205	0.182	23.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.263	-0.06	22.19	23.00	1.205	0.317	23.1



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Left side	20	QPSK 50_0	40620/2593	1:1.58	0.245	0.09	22.19	23.00	1.205	0.295	23.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.113	-0.08	22.19	23.00	1.205	0.136	23.1

Table 23: SAR of LTE Band 41 for Head and Body.

9.2.3 SAR Result of LTE Band 48

LTE Band 48 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.375	0.17	16.98	18.00	1.265	0.474	23.1
Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.506	-0.01	16.98	18.00	1.265	0.640	23.1
Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.322	0.01	16.98	18.00	1.265	0.407	23.1
Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.476	0.14	16.98	18.00	1.265	0.602	23.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	55990/3625	1:1.58	0.309	0.05	16.07	17.00	1.239	0.383	23.1
Left tilted	20	QPSK 50_0	55990/3625	1:1.58	0.432	0.07	16.07	17.00	1.239	0.535	23.1
Right cheek	20	QPSK 50_0	55990/3625	1:1.58	0.262	-0.02	16.07	17.00	1.239	0.325	23.1
Right tilted	20	QPSK 50_0	55990/3625	1:1.58	0.387	0.10	16.07	17.00	1.239	0.479	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.075	0.17	16.98	18.00	1.265	0.095	23.1
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.221	0.09	16.98	18.00	1.265	0.280	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	55990/3625	1:1.58	0.061	0.06	16.07	17.00	1.239	0.076	23.1
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.198	0.01	16.07	17.00	1.239	0.245	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.075	0.17	16.98	18.00	1.265	0.095	23.1
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.221	0.09	16.98	18.00	1.265	0.280	23.1
Left side	20	QPSK 1_0	55990/3625	1:1.58	0.009	0.13	16.98	18.00	1.265	0.011	23.1
Right side	20	QPSK 1_0	55990/3625	1:1.58	0.093	0.02	16.98	18.00	1.265	0.118	23.1
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.326	0.08	16.98	18.00	1.265	0.412	23.1
Hotspot Test data(Separate 10mm 50%RB)											



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Front side	20	QPSK 50_0	55990/3625	1:1.58	0.061	0.06	16.07	17.00	1.239	0.076	23.1
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.198	0.01	16.07	17.00	1.239	0.245	23.1
Left side	20	QPSK 50_0	55990/3625	1:1.58	0.007	0.16	16.07	17.00	1.239	0.009	23.1
Right side	20	QPSK 50_0	55990/3625	1:1.58	0.076	0.09	16.07	17.00	1.239	0.094	23.1
Top side	20	QPSK 50_0	55990/3625	1:1.58	0.276	0.18	16.07	17.00	1.239	0.342	23.1

Table 24: SAR of LTE Band 48 for Head and Body.

9.2.1 SAR Result of 5G NR n5

SA N5 SAR Test Record											
Ant1 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.123	0.01	22.32	23.00	1.169	0.144	22.8
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.084	0.19	22.32	23.00	1.169	0.098	22.8
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.151	0.03	22.32	23.00	1.169	0.177	22.8
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.100	0.08	22.32	23.00	1.169	0.117	22.8
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.132	0.18	22.25	23.00	1.189	0.157	22.8
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.098	0.04	22.25	23.00	1.189	0.116	22.8
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.159	0.10	22.25	23.00	1.189	0.189	22.8
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.108	-0.11	22.25	23.00	1.189	0.128	22.8
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.258	-0.16	22.32	23.00	1.169	0.302	22.8
Back side	20	QPSK 1_1	167300/836.5	1:1	0.398	0.11	22.32	23.00	1.169	0.465	22.8
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.262	-0.06	22.25	23.00	1.189	0.311	22.8
Back side	20	QPSK 50_28	167300/836.5	1:1	0.411	0.07	22.25	23.00	1.189	0.488	22.8



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Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.258	-0.16	22.32	23.00	1.169	0.302	22.8
Back side	20	QPSK 1_1	167300/836.5	1:1	0.398	0.11	22.32	23.00	1.169	0.465	22.8
Left side	20	QPSK 1_1	167300/836.5	1:1	0.090	0.12	22.32	23.00	1.169	0.105	22.8
Right side	20	QPSK 1_1	167300/836.5	1:1	0.230	0.18	22.32	23.00	1.169	0.269	22.8
Bottom side	20	QPSK 1_1	167300/836.5	1:1	0.327	-0.08	22.32	23.00	1.169	0.382	22.8
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.262	-0.06	22.25	23.00	1.189	0.311	22.8
Back side	20	QPSK 50_28	167300/836.5	1:1	0.411	0.07	22.25	23.00	1.189	0.488	22.8
Left side	20	QPSK 50_28	167300/836.5	1:1	0.097	0.03	22.25	23.00	1.189	0.115	22.8
Right side	20	QPSK 50_28	167300/836.5	1:1	0.242	0.03	22.25	23.00	1.189	0.288	22.8
Bottom side	20	QPSK 50_28	167300/836.5	1:1	0.338	-0.05	22.25	23.00	1.189	0.402	22.8

Table 25: SAR of 5G NR n5 for Head and Body.

9.2.2 SAR Result of 5G NR n25

SA N25 SAR Test Record											
Ant4 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	376500/1882.5	1:1	0.145	-0.06	21.86	23.00	1.300	0.189	22.9
Left tilted	20	QPSK 1_1	376500/1882.5	1:1	0.079	-0.06	21.86	23.00	1.300	0.103	22.9
Right cheek	20	QPSK 1_1	376500/1882.5	1:1	0.104	0.08	21.86	23.00	1.300	0.135	22.9
Right tilted	20	QPSK 1_1	376500/1882.5	1:1	0.076	-0.05	21.86	23.00	1.300	0.099	22.9
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	376500/1882.5	1:1	0.166	-0.06	21.75	23.00	1.334	0.221	22.9
Left tilted	20	QPSK 50_28	376500/1882.5	1:1	0.093	0.15	21.75	23.00	1.334	0.124	22.9
Right cheek	20	QPSK 50_28	376500/1882.5	1:1	0.111	0.04	21.75	23.00	1.334	0.148	22.9
Right tilted	20	QPSK 50_28	376500/1882.5	1:1	0.086	0.17	21.75	23.00	1.334	0.115	22.9
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	376500/1882.5	1:1	0.165	-0.09	21.86	23.00	1.300	0.215	22.9
Back side	20	QPSK 1_1	376500/1882.5	1:1	0.303	-0.19	21.86	23.00	1.300	0.394	22.9



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Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	376500/1882.5	1:1	0.176	0.09	21.75	23.00	1.334	0.235	22.9
Back side	20	QPSK 50_28	376500/1882.5	1:1	0.315	0.16	21.75	23.00	1.334	0.420	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	376500/1882.5	1:1	0.165	-0.09	21.86	23.00	1.300	0.215	22.9
Back side	20	QPSK 1_1	376500/1882.5	1:1	0.303	-0.19	21.86	23.00	1.300	0.394	22.9
Left side	20	QPSK 1_1	376500/1882.5	1:1	0.184	0.15	21.86	23.00	1.300	0.239	22.9
Bottom side	20	QPSK 1_1	376500/1882.5	1:1	0.244	0.18	21.86	23.00	1.300	0.317	22.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	376500/1882.5	1:1	0.176	0.09	21.75	23.00	1.334	0.235	22.9
Back side	20	QPSK 50_28	376500/1882.5	1:1	0.315	0.16	21.75	23.00	1.334	0.420	22.9
Left side	20	QPSK 50_28	376500/1882.5	1:1	0.193	0.09	21.75	23.00	1.334	0.257	22.9
Bottom side	20	QPSK 50_28	376500/1882.5	1:1	0.254	-0.02	21.75	23.00	1.334	0.339	22.9

Table 26: SAR of 5G NR n25 for Head and Body.

9.2.3 SAR Result of 5G NR n66

SA N66 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.186	-0.05	22.23	23.00	1.194	0.222	22.7
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.093	0.16	22.23	23.00	1.194	0.111	22.7
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.133	0.13	22.23	23.00	1.194	0.159	22.7
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.081	-0.14	22.23	23.00	1.194	0.097	22.7
Head Test data(50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.222	0.17	22.19	23.00	1.205	0.268	22.7
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.112	-0.12	22.19	23.00	1.205	0.135	22.7
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.151	0.05	22.19	23.00	1.205	0.182	22.7
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.101	-0.15	22.19	23.00	1.205	0.122	22.7
Body worn Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.290	-0.06	22.23	23.00	1.194	0.346	22.7



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Back side	40	QPSK 1_1	349000/1745	1:1	0.618	0.08	22.23	23.00	1.194	0.738	22.7
Body worn Test data(Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.302	-0.18	22.19	23.00	1.205	0.364	22.7
Back side	40	QPSK 108_54	349000/1745	1:1	0.631	0.04	22.19	23.00	1.205	0.760	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.290	-0.06	22.23	23.00	1.194	0.346	22.7
Back side	40	QPSK 1_1	349000/1745	1:1	0.618	0.08	22.23	23.00	1.194	0.738	22.7
Left side	40	QPSK 1_1	349000/1745	1:1	0.318	0.04	22.23	23.00	1.194	0.380	22.7
Bottom side	40	QPSK 1_1	349000/1745	1:1	0.321	-0.03	22.23	23.00	1.194	0.383	22.7
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.302	-0.18	22.19	23.00	1.205	0.364	22.7
Back side	40	QPSK 108_54	349000/1745	1:1	0.631	0.04	22.19	23.00	1.205	0.760	22.7
Left side	40	QPSK 108_54	349000/1745	1:1	0.328	0.00	22.19	23.00	1.205	0.395	22.7
Bottom side	40	QPSK 108_54	349000/1745	1:1	0.334	-0.19	22.19	23.00	1.205	0.402	22.7

Table 27: SAR of 5G NR n66 for Head and Body.

9.2.4 SAR Result of 5G NR n71

SA N71 SAR Test Record											
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	136100/680.5	1:1	0.073	0.18	22.28	23.00	1.180	0.086	22.7
Left tilted	20	QPSK 1_1	136100/680.5	1:1	0.042	0.11	22.28	23.00	1.180	0.050	22.7
Right cheek	20	QPSK 1_1	136100/680.5	1:1	0.079	-0.17	22.28	23.00	1.180	0.093	22.7
Right tilted	20	QPSK 1_1	136100/680.5	1:1	0.046	-0.09	22.28	23.00	1.180	0.054	22.7
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	136100/680.5	1:1	0.084	-0.03	22.18	23.00	1.208	0.101	22.7
Left tilted	20	QPSK 50_28	136100/680.5	1:1	0.052	0.11	22.18	23.00	1.208	0.063	22.7
Right cheek	20	QPSK 50_28	136100/680.5	1:1	0.091	0.09	22.18	23.00	1.208	0.110	22.7
Right tilted	20	QPSK 50_28	136100/680.5	1:1	0.052	0.06	22.18	23.00	1.208	0.063	22.7
Body worn Test data(Separate 10mm 1RB)											



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Front side	20	QPSK 1_1	136100/680.5	1:1	0.101	-0.01	22.28	23.00	1.180	0.119	22.7
Back side	20	QPSK 1_1	136100/680.5	1:1	0.149	-0.06	22.28	23.00	1.180	0.176	22.7
Body worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	1:1	0.114	-0.10	22.18	23.00	1.208	0.138	22.7
Back side	20	QPSK 50_28	136100/680.5	1:1	0.162	-0.02	22.18	23.00	1.208	0.196	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	1:1	0.101	-0.01	22.28	23.00	1.180	0.119	22.7
Back side	20	QPSK 1_1	136100/680.5	1:1	0.149	-0.06	22.28	23.00	1.180	0.176	22.7
Left side	20	QPSK 1_1	136100/680.5	1:1	0.044	-0.11	22.28	23.00	1.180	0.052	22.7
Right side	20	QPSK 1_1	136100/680.5	1:1	0.098	0.06	22.28	23.00	1.180	0.116	22.7
Bottom side	20	QPSK 1_1	136100/680.5	1:1	0.124	-0.05	22.28	23.00	1.180	0.146	22.7
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	1:1	0.114	-0.10	22.18	23.00	1.208	0.138	22.7
Back side	20	QPSK 50_28	136100/680.5	1:1	0.162	-0.02	22.18	23.00	1.208	0.196	22.7
Left side	20	QPSK 50_28	136100/680.5	1:1	0.061	-0.04	22.18	23.00	1.208	0.074	22.7
Right side	20	QPSK 50_28	136100/680.5	1:1	0.113	-0.08	22.18	23.00	1.208	0.136	22.7
Bottom side	20	QPSK 50_28	136100/680.5	1:1	0.144	0.05	22.18	23.00	1.208	0.174	22.7

Table 28: SAR of 5G NR n71 for Head and Body.

9.2.5 SAR Result of 5G NR n41

SA N41 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.059	0.16	21.38	22.00	1.153	0.068	23.1
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.034	0.05	21.38	22.00	1.153	0.039	23.1
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.046	-0.02	21.38	22.00	1.153	0.053	23.1
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.030	-0.11	21.38	22.00	1.153	0.035	23.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.068	0.01	21.36	22.00	1.159	0.079	23.1
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.041	0.05	21.36	22.00	1.159	0.048	23.1



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Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.056	0.18	21.36	22.00	1.159	0.065	23.1
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.033	-0.01	21.36	22.00	1.159	0.038	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.159	0.17	21.38	22.00	1.153	0.183	23.1
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.308	0.16	21.38	22.00	1.153	0.355	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.174	0.07	21.36	22.00	1.159	0.202	23.1
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.325	0.07	21.36	22.00	1.159	0.377	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.159	0.17	21.38	22.00	1.153	0.183	23.1
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.308	0.16	21.38	22.00	1.153	0.355	23.1
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.256	-0.07	21.38	22.00	1.153	0.295	23.1
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.126	-0.13	21.38	22.00	1.153	0.145	23.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.174	0.07	21.36	22.00	1.159	0.202	23.1
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.325	0.07	21.36	22.00	1.159	0.377	23.1
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.267	-0.12	21.36	22.00	1.159	0.309	23.1
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.135	-0.03	21.36	22.00	1.159	0.156	23.1

Table 29: SAR of 5G NR n41 for Head and Body.

9.2.6 SAR Result of 5G NR n48

SA N48 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	40	QPSK 1_1	641666/3624.99	1:1	0.249	0.03	12.48	13.50	1.265	0.315	23.1
Left tilted	40	QPSK 1_1	641666/3624.99	1:1	0.336	0.01	12.48	13.50	1.265	0.425	23.1
Right cheek	40	QPSK 1_1	641666/3624.99	1:1	0.210	0.05	12.48	13.50	1.265	0.266	23.1
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.289	0.04	12.48	13.50	1.265	0.366	23.1
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	641666/3624.99	1:1	0.266	0.01	12.33	13.50	1.309	0.348	23.1



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Left tilted	40	QPSK 50_28	641666/3624.99	1:1	0.343	-0.07	12.33	13.50	1.309	0.449	23.1
Right cheek	40	QPSK 50_28	641666/3624.99	1:1	0.218	0.08	12.33	13.50	1.309	0.285	23.1
Right tilted	40	QPSK 50_28	641666/3624.99	1:1	0.315	-0.09	12.33	13.50	1.309	0.412	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.049	0.01	12.48	13.50	1.265	0.062	23.1
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.162	0.05	12.48	13.50	1.265	0.205	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	641666/3624.99	1:1	0.052	0.01	12.33	13.50	1.309	0.068	23.1
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.182	0.03	12.33	13.50	1.309	0.238	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.049	0.01	12.48	13.50	1.265	0.062	23.1
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.162	0.05	12.48	13.50	1.265	0.205	23.1
Left side	40	QPSK 1_1	641666/3624.99	1:1	0.006	0.06	12.48	13.50	1.265	0.008	23.1
Right side	40	QPSK 1_1	641666/3624.99	1:1	0.051	0.01	12.48	13.50	1.265	0.065	23.1
Top side	40	QPSK 1_1	641666/3624.99	1:1	0.216	0.05	12.48	13.50	1.265	0.273	23.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	641666/3624.99	1:1	0.052	0.01	12.33	13.50	1.309	0.068	23.1
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.182	0.03	12.33	13.50	1.309	0.238	23.1
Left side	40	QPSK 50_28	641666/3624.99	1:1	0.008	0.05	12.33	13.50	1.309	0.010	23.1
Right side	40	QPSK 50_28	641666/3624.99	1:1	0.053	0.08	12.33	13.50	1.309	0.069	23.1
Top side	40	QPSK 50_28	641666/3624.99	1:1	0.239	0.03	12.33	13.50	1.309	0.313	23.1

Table 30: SAR of 5G NR n48 for Head and Body.

9.2.7 SAR Result of 5G NR n77 PartO

SA N77 PartO SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.327	0.05	13.61	14.50	1.227	0.401	23.3
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.461	0.01	13.61	14.50	1.227	0.566	23.3
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.290	0.05	13.61	14.50	1.227	0.356	23.3



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Right tilted	100	QPSK 1_1	656000/3840	1:1	0.416	0.06	13.61	14.50	1.227	0.511	23.3
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.366	0.01	13.55	14.50	1.245	0.455	23.3
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.495	-0.03	13.55	14.50	1.245	0.616	23.3
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.324	0.06	13.55	14.50	1.245	0.403	23.3
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.445	0.01	13.55	14.50	1.245	0.554	23.3
Body worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.084	0.06	13.61	14.50	1.227	0.103	23.3
Back side	100	QPSK 1_1	656000/3840	1:1	0.232	0.01	13.61	14.50	1.227	0.285	23.3
Body worn Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.088	0.01	13.55	14.50	1.245	0.110	23.3
Back side	100	QPSK 135_69	656000/3840	1:1	0.259	0.09	13.55	14.50	1.245	0.322	23.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.084	0.06	13.61	14.50	1.227	0.103	23.3
Back side	100	QPSK 1_1	656000/3840	1:1	0.232	0.01	13.61	14.50	1.227	0.285	23.3
Left side	100	QPSK 1_1	656000/3840	1:1	0.005	0.05	13.61	14.50	1.227	0.006	23.3
Right side	100	QPSK 1_1	656000/3840	1:1	0.057	0.07	13.61	14.50	1.227	0.070	23.3
Top side	100	QPSK 1_1	656000/3840	1:1	0.288	0.09	13.61	14.50	1.227	0.354	23.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.088	0.01	13.55	14.50	1.245	0.110	23.3
Back side	100	QPSK 135_69	656000/3840	1:1	0.259	0.09	13.55	14.50	1.245	0.322	23.3
Left side	100	QPSK 135_69	656000/3840	1:1	0.008	0.05	13.55	14.50	1.245	0.010	23.3
Right side	100	QPSK 135_69	656000/3840	1:1	0.059	0.04	13.55	14.50	1.245	0.073	23.3
Top side	100	QPSK 135_69	656000/3840	1:1	0.309	0.09	13.55	14.50	1.245	0.385	23.3

Table 31: SAR of 5G NR n77 PartQ for Head and Body.

9.2.8 SAR Result of 5G NR n77 PartQ

SA N77 PartQ SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											



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Left cheek	100	QPSK 1_1	633334/3500	1:1	0.336	0.09	13.97	14.50	1.130	0.380	23.1
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.420	0.01	13.97	14.50	1.130	0.475	23.1
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.252	0.05	13.97	14.50	1.130	0.285	23.1
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.328	0.06	13.97	14.50	1.130	0.371	23.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.397	0.07	13.76	14.50	1.186	0.471	23.1
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.464	-0.01	13.76	14.50	1.186	0.550	23.1
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.264	0.03	13.76	14.50	1.186	0.313	23.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.356	0.08	13.76	14.50	1.186	0.422	23.1
Body worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.075	0.01	13.97	14.50	1.130	0.085	23.1
Back side	100	QPSK 1_1	633334/3500	1:1	0.201	0.05	13.97	14.50	1.130	0.227	23.1
Body worn Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.078	0.08	13.76	14.50	1.186	0.092	23.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.218	0.01	13.76	14.50	1.186	0.258	23.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.075	0.01	13.97	14.50	1.130	0.085	23.1
Back side	100	QPSK 1_1	633334/3500	1:1	0.201	0.05	13.97	14.50	1.130	0.227	23.1
Left side	100	QPSK 1_1	633334/3500	1:1	0.011	0.05	13.97	14.50	1.130	0.012	23.1
Right side	100	QPSK 1_1	633334/3500	1:1	0.066	0.06	13.97	14.50	1.130	0.075	23.1
Top side	100	QPSK 1_1	633334/3500	1:1	0.259	0.09	13.97	14.50	1.130	0.293	23.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.078	0.08	13.76	14.50	1.186	0.092	23.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.218	0.01	13.76	14.50	1.186	0.258	23.1
Left side	100	QPSK 135_69	633334/3500	1:1	0.012	0.06	13.76	14.50	1.186	0.014	23.1
Right side	100	QPSK 135_69	633334/3500	1:1	0.068	0.09	13.76	14.50	1.186	0.081	23.1
Top side	100	QPSK 135_69	633334/3500	1:1	0.292	0.06	13.76	14.50	1.186	0.346	23.1

Table 32: SAR of 5G NR n77 PartQ for Head and Body.



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9.2.9 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant7 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11b	6/2437	99.64%	1.004	0.604	0.11	16.19	17.00	1.205	0.730	22.8
Left tilted	802.11b	6/2437	99.64%	1.004	0.450	0.05	16.19	17.00	1.205	0.544	22.8
Right cheek	802.11b	6/2437	99.64%	1.004	0.324	0.08	16.19	17.00	1.205	0.392	22.8
Right tilted	802.11b	6/2437	99.64%	1.004	0.203	0.09	16.19	17.00	1.205	0.246	22.8
Body worn Test data(Separate 10mm)											
Front side	802.11b	6/2437	99.64%	1.004	0.129	0.11	16.19	17.00	1.205	0.156	22.8
Back side	802.11b	6/2437	99.64%	1.004	0.160	-0.05	16.19	17.00	1.205	0.194	22.8
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.64%	1.004	0.129	0.11	16.19	17.00	1.205	0.156	22.8
Back side	802.11b	6/2437	99.64%	1.004	0.160	-0.05	16.19	17.00	1.205	0.194	22.8
Right side	802.11b	6/2437	99.64%	1.004	0.138	0.05	16.19	17.00	1.205	0.167	22.8
Top side	802.11b	6/2437	99.64%	1.004	0.085	0.03	16.19	17.00	1.205	0.103	22.8

Table 33: SAR of WIFI 2.4G for Head and Body.

Note: When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

9.2.1 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
Ant7 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A											
Left cheek	802.11a	60/5300	97.55%	1.025	0.612	0.05	13.10	14.00	1.230	0.772	22.6
Left tilted	802.11a	60/5300	97.55%	1.025	0.656	-0.03	13.10	14.00	1.230	0.827	22.6
Left tilted-Repeat SAR	802.11a	60/5300	97.55%	1.025	0.646	0.03	13.10	14.00	1.230	0.815	22.6
Left tilted	802.11a	52/5260	97.55%	1.025	0.591	0.01	13.07	14.00	1.239	0.751	22.6



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Left tilted	802.11a	64/5320	97.55%	1.025	0.622	0.06	13.06	14.00	1.242	0.792	22.6
Right cheek	802.11a	60/5300	97.55%	1.025	0.306	0.08	13.10	14.00	1.230	0.386	22.6
Right tilted	802.11a	60/5300	97.55%	1.025	0.348	0.01	13.10	14.00	1.230	0.439	22.6
Head Test data of U-NII-2C											
Left cheek	802.11a	116/5580	97.55%	1.025	0.617	0.06	13.07	14.00	1.239	0.784	22.8
Left tilted	802.11a	116/5580	97.55%	1.025	0.682	0.03	13.07	14.00	1.239	0.866	22.8
Left tilted-Repeat SAR	802.11a	116/5580	97.55%	1.025	0.678	0.03	13.07	14.00	1.239	0.861	22.8
Left tilted	802.11a	100/5500	97.55%	1.025	0.632	-0.06	13.01	14.00	1.256	0.814	22.8
Left tilted	802.11a	140/5700	97.55%	1.025	0.577	0.05	13.02	14.00	1.253	0.741	22.8
Right cheek	802.11a	116/5580	97.55%	1.025	0.297	-0.03	13.07	14.00	1.239	0.377	22.8
Right tilted	802.11a	116/5580	97.55%	1.025	0.347	0.01	13.07	14.00	1.239	0.441	22.8
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	97.55%	1.025	0.480	0.05	14.36	15.50	1.300	0.640	22.8
Left tilted	802.11a	157/5785	97.55%	1.025	0.535	0.09	14.36	15.50	1.300	0.713	22.8
Right cheek	802.11a	157/5785	97.55%	1.025	0.277	0.03	14.36	15.50	1.300	0.369	22.8
Right tilted	802.11a	157/5785	97.55%	1.025	0.291	0.01	14.36	15.50	1.300	0.388	22.8
Body worn Test data of U-NII-2A(Separate 10mm)											
Front side	802.11a	60/5300	97.55%	1.025	0.118	0.01	13.10	14.00	1.230	0.149	22.6
Back side	802.11a	60/5300	97.55%	1.025	0.220	0.03	13.10	14.00	1.230	0.277	22.6
Body worn Test data of U-NII-2C(Separate 10mm)											
Front side	802.11a	116/5580	97.55%	1.025	0.172	0.05	13.07	14.00	1.239	0.218	22.8
Back side	802.11a	116/5580	97.55%	1.025	0.291	0.04	13.07	14.00	1.239	0.370	22.8
Body worn Test data of U-NII-3(Separate 10mm)											
Front side	802.11a	157/5785	97.55%	1.025	0.131	0.05	14.36	15.50	1.300	0.175	22.8
Back side	802.11a	157/5785	97.55%	1.025	0.244	-0.09	14.36	15.50	1.300	0.325	22.8
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	40/5200	97.55%	1.025	0.145	0.09	13.18	14.00	1.208	0.180	22.6
Back side	802.11a	40/5200	97.55%	1.025	0.265	0.01	13.18	14.00	1.208	0.328	22.6
Right side	802.11a	40/5200	97.55%	1.025	0.095	0.05	13.18	14.00	1.208	0.118	22.6
Top side	802.11a	40/5200	97.55%	1.025	0.286	-0.07	13.18	14.00	1.208	0.354	22.6
Hotspot Test data of U-NII-3(Separate 10mm)											



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Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Front side	802.11a	157/5785	97.55%	1.025	0.131	0.05	14.36	15.50	1.300	0.175	22.8
Back side	802.11a	157/5785	97.55%	1.025	0.244	-0.09	14.36	15.50	1.300	0.325	22.8
Right side	802.11a	157/5785	97.55%	1.025	0.186	0.02	14.36	15.50	1.300	0.248	22.8
Top side	802.11a	157/5785	97.55%	1.025	0.280	0.01	14.36	15.50	1.300	0.373	22.8
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	60/5300	97.55%	1.025	0.354	0.04	13.10	14.00	1.230	0.446	22.6
Back side	802.11a	60/5300	97.55%	1.025	0.341	0.09	13.10	14.00	1.230	0.430	22.6
Right side	802.11a	60/5300	97.55%	1.025	0.260	0.01	13.10	14.00	1.230	0.328	22.6
Top side	802.11a	60/5300	97.55%	1.025	0.319	0.05	13.10	14.00	1.230	0.402	22.6
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	116/5580	97.55%	1.025	0.498	0.08	13.07	14.00	1.239	0.632	22.8
Back side	802.11a	116/5580	97.55%	1.025	0.459	0.05	13.07	14.00	1.239	0.583	22.8
Right side	802.11a	116/5580	97.55%	1.025	0.263	0.01	13.07	14.00	1.239	0.334	22.8
Top side	802.11a	116/5580	97.55%	1.025	0.423	0.03	13.07	14.00	1.239	0.537	22.8

Table 34: SAR of WIFI 5G for Head and Body.

Note:

- As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 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.



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9.2.2 SAR Result of BT

Bluetooth SAR Test Record											
Ant7 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	77.23%	1.295	0.105	-0.04	10.83	12.00	1.309	0.178	22.8
Left tilted	DH5	39/2441	77.23%	1.295	0.044	0.09	10.83	12.00	1.309	0.075	22.8
Right cheek	DH5	39/2441	77.23%	1.295	0.059	0.01	10.83	12.00	1.309	0.100	22.8
Right tilted	DH5	39/2441	77.23%	1.295	0.029	0.05	10.83	12.00	1.309	0.049	22.8
Body worn Test data(Separate 10mm)											
Front side	DH5	39/2441	77.23%	1.295	0.001	0.02	10.83	12.00	1.309	0.002	22.8
Back side	DH5	39/2441	77.23%	1.295	0.023	-0.09	10.83	12.00	1.309	0.039	22.8
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	77.23%	1.295	0.001	0.02	10.83	12.00	1.309	0.002	22.8
Back side	DH5	39/2441	77.23%	1.295	0.023	-0.09	10.83	12.00	1.309	0.039	22.8
Right side	DH5	39/2441	77.23%	1.295	0.001	0.06	10.83	12.00	1.309	0.002	22.8
Top side	DH5	39/2441	77.23%	1.295	0.001	0.01	10.83	12.00	1.309	0.002	22.8

Table 35: SAR of BT for Head and Body.



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9.3 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

LTE Band 41 SAR testing with power class 2 at the highest power and available duty factor was additionally performed for the power class 3 configuration with the highest SAR for each exposure condition.

LTE Band 41 PC3&PC2 Ant 4 - Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.00
Reported 1g SAR (W/kg)	0.099	0.083
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	136.93
Linearity SAR (W/kg)	0.085	
% deviation from expected linearity		-2.64%

LTE Band 41 PC3&PC2 Ant 4 - Body worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.00
Reported 1g SAR (W/kg)	0.392	0.310
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	136.93
Linearity SAR (W/kg)	0.338	
% deviation from expected linearity		-8.17%

LTE Band 41 PC3&PC2 Ant 4 - Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	25.00
Reported 1g SAR (W/kg)	0.392	0.310
Duty Cycle	63.30%	43.30%



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Frame Averaged (mW)	159.00	136.93
Linearity SAR (W/kg)	0.338	
% deviation from expected linearity		-8.17%



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9.4 Multiple Transmitter Evaluation

9.4.1 Simultaneous SAR test evaluation

•Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)	Interactive hand 10-g
1	WWAN + WIFI2.4G	Y	Y	Y	Y	Y
2	WWAN + WIFI5G	Y	Y	Y	Y	Y
3	WWAN + WIFI5G + BT	Y	Y	Y	Y	Y

Note:

- 1) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 2) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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9.4.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

Test position		SARmax (W/kg)				Summed SAR	
		Main All Ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7		
		1	2	3	4	1+2	1+3+4
GSM850	Left cheek	0.087	0.730	0.784	0.178	0.817	1.049
	Left tilted	0.061	0.544	0.866	0.075	0.605	1.002
	Right cheek	0.117	0.392	0.386	0.100	0.509	0.603
	Right tilted	0.077	0.246	0.441	0.049	0.323	0.567
GSM1900	Left cheek	0.307	0.730	0.784	0.178	1.037	1.269
	Left tilted	0.327	0.544	0.866	0.075	0.871	1.268
	Right cheek	1.090	0.392	0.386	0.100	1.482	1.576
	Right tilted	1.000	0.246	0.441	0.049	1.246	1.490
WCDMA B2	Left cheek	0.279	0.730	0.784	0.178	1.009	1.241
	Left tilted	0.298	0.544	0.866	0.075	0.842	1.239
	Right cheek	0.950	0.392	0.386	0.100	1.342	1.436
	Right tilted	0.918	0.246	0.441	0.049	1.164	1.408
WCDMA B4	Left cheek	0.483	0.730	0.784	0.178	1.213	1.445
	Left tilted	0.338	0.544	0.866	0.075	0.882	1.279
	Right cheek	0.974	0.392	0.386	0.100	1.366	1.460
	Right tilted	0.679	0.246	0.441	0.049	0.925	1.169
WCDMA B5	Left cheek	0.263	0.730	0.784	0.178	0.993	1.225
	Left tilted	0.195	0.544	0.866	0.075	0.739	1.136
	Right cheek	0.315	0.392	0.386	0.100	0.707	0.801
	Right tilted	0.206	0.246	0.441	0.049	0.452	0.696
LTE B12	Left cheek	0.194	0.730	0.784	0.178	0.924	1.156
	Left tilted	0.116	0.544	0.866	0.075	0.660	1.057
	Right cheek	0.209	0.392	0.386	0.100	0.601	0.695
	Right tilted	0.139	0.246	0.441	0.049	0.385	0.629
LTE B13	Left cheek	0.242	0.730	0.784	0.178	0.972	1.204
	Left tilted	0.182	0.544	0.866	0.075	0.726	1.123
	Right cheek	0.273	0.392	0.386	0.100	0.665	0.759



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	Right tilted	0.199	0.246	0.441	0.049	0.445	0.689
LTE B25	Left cheek	0.160	0.730	0.784	0.178	0.890	1.122
	Left tilted	0.175	0.544	0.866	0.075	0.719	1.116
	Right cheek	0.594	0.392	0.386	0.100	0.986	1.080
	Right tilted	0.552	0.246	0.441	0.049	0.798	1.042
LTE B26	Left cheek	0.282	0.730	0.784	0.178	1.012	1.244
	Left tilted	0.191	0.544	0.866	0.075	0.735	1.132
	Right cheek	0.324	0.392	0.386	0.100	0.716	0.810
	Right tilted	0.220	0.246	0.441	0.049	0.466	0.710
LTE B30	Left cheek	0.338	0.730	0.784	0.178	1.068	1.300
	Left tilted	0.389	0.544	0.866	0.075	0.933	1.330
	Right cheek	0.624	0.392	0.386	0.100	1.016	1.110
	Right tilted	0.614	0.246	0.441	0.049	0.860	1.104
LTE B41	Left cheek	0.102	0.730	0.784	0.178	0.832	1.064
	Left tilted	0.061	0.544	0.866	0.075	0.605	1.002
	Right cheek	0.085	0.392	0.386	0.100	0.477	0.571
	Right tilted	0.070	0.246	0.441	0.049	0.316	0.560
LTE B48	Left cheek	0.474	0.730	0.784	0.178	1.204	1.436
	Left tilted	0.640	0.544	0.866	0.075	1.184	1.581
	Right cheek	0.407	0.392	0.386	0.100	0.799	0.893
	Right tilted	0.602	0.246	0.441	0.049	0.848	1.092
LTE B66	Left cheek	0.375	0.730	0.784	0.178	1.105	1.337
	Left tilted	0.266	0.544	0.866	0.075	0.810	1.207
	Right cheek	0.735	0.392	0.386	0.100	1.127	1.221
	Right tilted	0.521	0.246	0.441	0.049	0.767	1.011
LTE B71	Left cheek	0.177	0.730	0.784	0.178	0.907	1.139
	Left tilted	0.096	0.544	0.866	0.075	0.640	1.037
	Right cheek	0.203	0.392	0.386	0.100	0.595	0.689
	Right tilted	0.120	0.246	0.441	0.049	0.366	0.610
N5	Left cheek	0.157	0.730	0.784	0.178	0.887	1.119
	Left tilted	0.116	0.544	0.866	0.075	0.660	1.057



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	Right cheek	0.189	0.392	0.386	0.100	0.581	0.675
	Right tilted	0.128	0.246	0.441	0.049	0.374	0.618
N25	Left cheek	0.221	0.730	0.784	0.178	0.951	1.183
	Left tilted	0.124	0.544	0.866	0.075	0.668	1.065
	Right cheek	0.148	0.392	0.386	0.100	0.540	0.634
	Right tilted	0.115	0.246	0.441	0.049	0.361	0.605
N41	Left cheek	0.079	0.730	0.784	0.178	0.809	1.041
	Left tilted	0.048	0.544	0.866	0.075	0.592	0.989
	Right cheek	0.065	0.392	0.386	0.100	0.457	0.551
	Right tilted	0.038	0.246	0.441	0.049	0.284	0.528
N48	Left cheek	0.348	0.730	0.784	0.178	1.078	1.310
	Left tilted	0.449	0.544	0.866	0.075	0.993	1.390
	Right cheek	0.285	0.392	0.386	0.100	0.677	0.771
	Right tilted	0.412	0.246	0.441	0.049	0.658	0.902
N66	Left cheek	0.268	0.730	0.784	0.178	0.998	1.230
	Left tilted	0.135	0.544	0.866	0.075	0.679	1.076
	Right cheek	0.182	0.392	0.386	0.100	0.574	0.668
	Right tilted	0.122	0.246	0.441	0.049	0.368	0.612
N71	Left cheek	0.101	0.730	0.784	0.178	0.831	1.063
	Left tilted	0.063	0.544	0.866	0.075	0.607	1.004
	Right cheek	0.110	0.392	0.386	0.100	0.502	0.596
	Right tilted	0.063	0.246	0.441	0.049	0.309	0.553
N77 Part 270	Left cheek	0.455	0.730	0.784	0.178	1.185	1.417
	Left tilted	0.616	0.544	0.866	0.075	1.160	1.557
	Right cheek	0.403	0.392	0.386	0.100	0.795	0.889
	Right tilted	0.554	0.246	0.441	0.049	0.800	1.044
N77 Part 27Q	Left cheek	0.471	0.730	0.784	0.178	1.201	1.433
	Left tilted	0.550	0.544	0.866	0.075	1.094	1.491
	Right cheek	0.313	0.392	0.386	0.100	0.705	0.799
	Right tilted	0.422	0.246	0.441	0.049	0.668	0.912



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Test position		SARmax (W/kg)					Summed SAR	
		LTE EN-DC Max SAR	FR1 EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7		
		1	2	3	4	5	1+2+3	1+2+4+5
B2Ant2 - N5Ant1	Left cheek	0.160	0.157	0.730	0.784	0.178	1.047	1.279
	Left tilted	0.175	0.116	0.544	0.866	0.075	0.835	1.232
	Right cheek	0.594	0.189	0.392	0.386	0.100	1.175	1.269
	Right tilted	0.552	0.128	0.246	0.441	0.049	0.926	1.170
B66(4)Ant2 - N5Ant1	Left cheek	0.375	0.157	0.730	0.784	0.178	1.262	1.494
	Left tilted	0.266	0.116	0.544	0.866	0.075	0.926	1.323
	Right cheek	0.735	0.189	0.392	0.386	0.100	1.316	1.410
	Right tilted	0.521	0.128	0.246	0.441	0.049	0.895	1.139
B30Ant2 - N5Ant1	Left cheek	0.338	0.157	0.730	0.784	0.178	1.225	1.457
	Left tilted	0.389	0.116	0.544	0.866	0.075	1.049	1.446
	Right cheek	0.624	0.189	0.392	0.386	0.100	1.205	1.299
	Right tilted	0.614	0.128	0.246	0.441	0.049	0.988	1.232
B66(4)Ant2 - N2Ant4	Left cheek	0.375	0.221	0.730	0.784	0.178	1.326	1.558
	Left tilted	0.266	0.124	0.544	0.866	0.075	0.934	1.331
	Right cheek	0.735	0.148	0.392	0.386	0.100	1.275	1.369
	Right tilted	0.521	0.115	0.246	0.441	0.049	0.882	1.126
B12Ant1 - N2Ant4	Left cheek	0.194	0.221	0.730	0.784	0.178	1.145	1.377
	Left tilted	0.116	0.124	0.544	0.866	0.075	0.784	1.181
	Right cheek	0.209	0.148	0.392	0.386	0.100	0.749	0.843
	Right tilted	0.139	0.115	0.246	0.441	0.049	0.500	0.744
B13Ant1 - N2Ant4	Left cheek	0.242	0.221	0.730	0.784	0.178	1.193	1.425
	Left tilted	0.182	0.124	0.544	0.866	0.075	0.850	1.247
	Right cheek	0.273	0.148	0.392	0.386	0.100	0.813	0.907
	Right tilted	0.199	0.115	0.246	0.441	0.049	0.560	0.804
B30Ant2 - N2Ant4	Left cheek	0.338	0.221	0.730	0.784	0.178	1.289	1.521
	Left tilted	0.389	0.124	0.544	0.866	0.075	1.057	1.454



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	Right cheek	0.624	0.148	0.392	0.386	0.100	1.164	1.258
	Right tilted	0.614	0.115	0.246	0.441	0.049	0.975	1.219
B2Ant2 - N66Ant4	Left cheek	0.160	0.268	0.730	0.784	0.178	1.158	1.390
	Left tilted	0.175	0.135	0.544	0.866	0.075	0.854	1.251
	Right cheek	0.594	0.182	0.392	0.386	0.100	1.168	1.262
	Right tilted	0.552	0.122	0.246	0.441	0.049	0.920	1.164
B12Ant1 - N66Ant4	Left cheek	0.194	0.268	0.730	0.784	0.178	1.192	1.424
	Left tilted	0.116	0.135	0.544	0.866	0.075	0.795	1.192
	Right cheek	0.209	0.182	0.392	0.386	0.100	0.783	0.877
	Right tilted	0.139	0.122	0.246	0.441	0.049	0.507	0.751
B13Ant1 - N66Ant4	Left cheek	0.242	0.268	0.730	0.784	0.178	1.240	1.472
	Left tilted	0.182	0.135	0.544	0.866	0.075	0.861	1.258
	Right cheek	0.273	0.182	0.392	0.386	0.100	0.847	0.941
	Right tilted	0.199	0.122	0.246	0.441	0.049	0.567	0.811
B30Ant2 - N66Ant4	Left cheek	0.338	0.268	0.730	0.784	0.178	1.336	1.568
	Left tilted	0.389	0.135	0.544	0.866	0.075	1.068	1.465
	Right cheek	0.624	0.182	0.392	0.386	0.100	1.198	1.292
	Right tilted	0.614	0.122	0.246	0.441	0.049	0.982	1.226
B2Ant2 - N48Ant3	Left cheek	0.160	0.348	0.730	0.784	0.178	1.238	1.470
	Left tilted	0.175	0.449	0.544	0.866	0.075	1.168	1.565
	Right cheek	0.594	0.285	0.392	0.386	0.100	1.271	1.365
	Right tilted	0.552	0.412	0.246	0.441	0.049	1.210	1.454

Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Body-worn:

Test position		SARmax (W/kg)				Summed SAR	
		Main All Ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7		
		1	2	3	4	1+2	1+3+4
GSM850	Front side	0.198	0.156	0.218	0.002	0.354	0.418
	Back side	0.326	0.194	0.370	0.039	0.520	0.735
GSM1900	Front side	0.382	0.156	0.218	0.002	0.538	0.602
	Back side	0.580	0.194	0.370	0.039	0.774	0.989



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WCDMA B2	Front side	0.210	0.156	0.218	0.002	0.366	0.430
	Back side	0.354	0.194	0.370	0.039	0.548	0.763
WCDMA B4	Front side	0.190	0.156	0.218	0.002	0.346	0.410
	Back side	0.321	0.194	0.370	0.039	0.515	0.730
WCDMA B5	Front side	0.383	0.156	0.218	0.002	0.539	0.603
	Back side	0.628	0.194	0.370	0.039	0.822	1.037
LTE B12	Front side	0.191	0.156	0.218	0.002	0.347	0.411
	Back side	0.335	0.194	0.370	0.039	0.529	0.744
LTE B13	Front side	0.280	0.156	0.218	0.002	0.436	0.500
	Back side	0.423	0.194	0.370	0.039	0.617	0.832
LTE B25	Front side	0.175	0.156	0.218	0.002	0.331	0.395
	Back side	0.276	0.194	0.370	0.039	0.470	0.685
LTE B26	Front side	0.364	0.156	0.218	0.002	0.520	0.584
	Back side	0.572	0.194	0.370	0.039	0.766	0.981
LTE B30	Front side	0.170	0.156	0.218	0.002	0.326	0.390
	Back side	0.240	0.194	0.370	0.039	0.434	0.649
LTE B41	Front side	0.225	0.156	0.218	0.002	0.381	0.445
	Back side	0.392	0.194	0.370	0.039	0.586	0.801
LTE B48	Front side	0.095	0.156	0.218	0.002	0.251	0.315
	Back side	0.280	0.194	0.370	0.039	0.474	0.689
LTE B66	Front side	0.206	0.156	0.218	0.002	0.362	0.426
	Back side	0.363	0.194	0.370	0.039	0.557	0.772
LTE B71	Front side	0.159	0.156	0.218	0.002	0.315	0.379
	Back side	0.315	0.194	0.370	0.039	0.509	0.724
N5	Front side	0.311	0.156	0.218	0.002	0.467	0.531
	Back side	0.488	0.194	0.370	0.039	0.682	0.897
N25	Front side	0.235	0.156	0.218	0.002	0.391	0.455
	Back side	0.420	0.194	0.370	0.039	0.614	0.829
N41	Front side	0.202	0.156	0.218	0.002	0.358	0.422
	Back side	0.377	0.194	0.370	0.039	0.571	0.786
N48	Front side	0.068	0.156	0.218	0.002	0.224	0.288



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	Back side	0.238	0.194	0.370	0.039	0.432	0.647
N66	Front side	0.364	0.156	0.218	0.002	0.520	0.584
	Back side	0.760	0.194	0.370	0.039	0.954	1.169
N71	Front side	0.138	0.156	0.218	0.002	0.294	0.358
	Back side	0.196	0.194	0.370	0.039	0.390	0.605
N77 Part 27O	Front side	0.110	0.156	0.218	0.002	0.266	0.330
	Back side	0.322	0.194	0.370	0.039	0.516	0.731
N77 Part 27Q	Front side	0.092	0.156	0.218	0.002	0.248	0.312
	Back side	0.258	0.194	0.370	0.039	0.452	0.667

Test position		SARmax (W/kg)					Summed SAR	
		LTE EN-DC Max SAR	FR1 EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	1+2+3	1+2+4+5
		1	2	3	4	5		
B2Ant2 - N5Ant1	Front side	0.175	0.311	0.156	0.218	0.002	0.642	0.706
	Back side	0.276	0.488	0.194	0.370	0.039	0.958	1.173
B66(4)Ant2 - N5Ant1	Front side	0.206	0.311	0.156	0.218	0.002	0.673	0.737
	Back side	0.363	0.488	0.194	0.370	0.039	1.045	1.260
B30Ant2 - N5Ant1	Front side	0.170	0.311	0.156	0.218	0.002	0.637	0.701
	Back side	0.240	0.488	0.194	0.370	0.039	0.922	1.137
B66(4)Ant2 - N2Ant4	Front side	0.206	0.235	0.156	0.218	0.002	0.597	0.661
	Back side	0.363	0.420	0.194	0.370	0.039	0.977	1.192
B12Ant1 - N2Ant4	Front side	0.191	0.235	0.156	0.218	0.002	0.582	0.646
	Back side	0.335	0.420	0.194	0.370	0.039	0.949	1.164
B13Ant1 - N2Ant4	Front side	0.280	0.235	0.156	0.218	0.002	0.671	0.735
	Back side	0.423	0.420	0.194	0.370	0.039	1.037	1.252
B30Ant2 - N2Ant4	Front side	0.170	0.235	0.156	0.218	0.002	0.561	0.625
	Back side	0.240	0.420	0.194	0.370	0.039	0.854	1.069
B2Ant2 - N66Ant4	Front side	0.175	0.364	0.156	0.218	0.002	0.695	0.759
	Back side	0.276	0.760	0.194	0.370	0.039	1.230	1.445
B12Ant1 - N66Ant4	Front side	0.191	0.364	0.156	0.218	0.002	0.711	0.775
	Back side	0.335	0.760	0.194	0.370	0.039	1.289	1.504
	Front side	0.280	0.364	0.156	0.218	0.002	0.800	0.864



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B13Ant1 - N66Ant4	Back side	0.423	0.760	0.194	0.370	0.039	1.377	1.592
B30Ant2 - N66Ant4	Front side	0.170	0.364	0.156	0.218	0.002	0.690	0.754
	Back side	0.240	0.760	0.194	0.370	0.039	1.194	1.409
B2Ant2 - N48Ant3	Front side	0.175	0.068	0.156	0.218	0.002	0.399	0.463
	Back side	0.276	0.238	0.194	0.370	0.039	0.708	0.923

Hotspot:

Test position		SARmax (W/kg)				Summed SAR	
		Main All Ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	1+2	1+3+4
		1	2	3	4		
GSM850	Front side	0.198	0.156	0.180	0.002	0.354	0.380
	Back side	0.326	0.194	0.328	0.039	0.520	0.693
	Left side	0.066	0.000	0.000	0.000	0.066	0.066
	Right side	0.171	0.167	0.248	0.002	0.338	0.421
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.265	0.000	0.000	0.000	0.265	0.265
GSM1900	Front side	0.382	0.156	0.180	0.002	0.538	0.564
	Back side	0.580	0.194	0.328	0.039	0.774	0.947
	Left side	0.378	0.000	0.000	0.000	0.378	0.378
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.434	0.103	0.373	0.002	0.537	0.809
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.210	0.156	0.180	0.002	0.366	0.392
	Back side	0.354	0.194	0.328	0.039	0.548	0.721
	Left side	0.198	0.000	0.000	0.000	0.198	0.198
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.246	0.103	0.373	0.002	0.349	0.621
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.190	0.156	0.180	0.002	0.346	0.372
	Back side	0.321	0.194	0.328	0.039	0.515	0.688
	Left side	0.185	0.000	0.000	0.000	0.185	0.185



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	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.085	0.103	0.373	0.002	0.188	0.460
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.383	0.156	0.180	0.002	0.539	0.565
	Back side	0.628	0.194	0.328	0.039	0.822	0.995
	Left side	0.078	0.000	0.000	0.000	0.078	0.078
	Right side	0.336	0.167	0.248	0.002	0.503	0.586
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.442	0.000	0.000	0.000	0.442	0.442
LTE B12	Front side	0.191	0.156	0.180	0.002	0.347	0.373
	Back side	0.335	0.194	0.328	0.039	0.529	0.702
	Left side	0.152	0.000	0.000	0.000	0.152	0.152
	Right side	0.230	0.167	0.248	0.002	0.397	0.480
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.248	0.000	0.000	0.000	0.248	0.248
LTE B13	Front side	0.280	0.156	0.180	0.002	0.436	0.462
	Back side	0.423	0.194	0.328	0.039	0.617	0.790
	Left side	0.140	0.000	0.000	0.000	0.140	0.140
	Right side	0.236	0.167	0.248	0.002	0.403	0.486
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.366	0.000	0.000	0.000	0.366	0.366
LTE B25	Front side	0.175	0.156	0.180	0.002	0.331	0.357
	Back side	0.276	0.194	0.328	0.039	0.470	0.643
	Left side	0.160	0.000	0.000	0.000	0.160	0.160
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Front side	0.364	0.156	0.180	0.002	0.520	0.546
	Back side	0.572	0.194	0.328	0.039	0.766	0.939
	Left side	0.187	0.000	0.000	0.000	0.187	0.187
	Right side	0.395	0.167	0.248	0.002	0.562	0.645



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	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.416	0.000	0.000	0.000	0.416	0.416
LTE B30	Front side	0.170	0.156	0.180	0.002	0.326	0.352
	Back side	0.240	0.194	0.328	0.039	0.434	0.607
	Left side	0.065	0.000	0.000	0.000	0.065	0.065
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.221	0.103	0.373	0.002	0.324	0.596
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.225	0.156	0.180	0.002	0.381	0.407
	Back side	0.392	0.194	0.328	0.039	0.586	0.759
	Left side	0.365	0.000	0.000	0.000	0.365	0.365
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.170	0.000	0.000	0.000	0.170	0.170
LTE B48	Front side	0.095	0.156	0.180	0.002	0.251	0.277
	Back side	0.280	0.194	0.328	0.039	0.474	0.647
	Left side	0.011	0.000	0.000	0.000	0.011	0.011
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.206	0.156	0.180	0.002	0.362	0.388
	Back side	0.363	0.194	0.328	0.039	0.557	0.730
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.094	0.103	0.373	0.002	0.197	0.469
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B71	Front side	0.159	0.156	0.180	0.002	0.315	0.341
	Back side	0.315	0.194	0.328	0.039	0.509	0.682
	Left side	0.108	0.000	0.000	0.000	0.108	0.108
	Right side	0.274	0.167	0.248	0.002	0.441	0.524
	Top side	0.000	0.103	0.373	0.002	0.103	0.375



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	Bottom side	0.199	0.000	0.000	0.000	0.199	0.199
N5	Front side	0.311	0.156	0.180	0.002	0.467	0.493
	Back side	0.488	0.194	0.328	0.039	0.682	0.855
	Left side	0.115	0.000	0.000	0.000	0.115	0.115
	Right side	0.288	0.167	0.248	0.002	0.455	0.538
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.402	0.000	0.000	0.000	0.402	0.402
N25	Front side	0.235	0.156	0.180	0.002	0.391	0.417
	Back side	0.420	0.194	0.328	0.039	0.614	0.787
	Left side	0.257	0.000	0.000	0.000	0.257	0.257
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.339	0.000	0.000	0.000	0.339	0.339
N41	Front side	0.202	0.156	0.180	0.002	0.358	0.384
	Back side	0.377	0.194	0.328	0.039	0.571	0.744
	Left side	0.309	0.000	0.000	0.000	0.309	0.309
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.156	0.000	0.000	0.000	0.156	0.156
N48	Front side	0.068	0.156	0.180	0.002	0.224	0.250
	Back side	0.238	0.194	0.328	0.039	0.432	0.605
	Left side	0.010	0.000	0.000	0.000	0.010	0.010
	Right side	0.069	0.167	0.248	0.002	0.236	0.319
	Top side	0.313	0.103	0.373	0.002	0.416	0.688
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.364	0.156	0.180	0.002	0.520	0.546
	Back side	0.760	0.194	0.328	0.039	0.954	1.127
	Left side	0.395	0.000	0.000	0.000	0.395	0.395
	Right side	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.402	0.000	0.000	0.000	0.402	0.402



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N71	Front side	0.138	0.156	0.180	0.002	0.294	0.320
	Back side	0.196	0.194	0.328	0.039	0.390	0.563
	Left side	0.074	0.000	0.000	0.000	0.074	0.074
	Right side	0.136	0.167	0.248	0.002	0.303	0.386
	Top side	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.174	0.000	0.000	0.000	0.174	0.174
N77 Part 27O	Front side	0.110	0.156	0.180	0.002	0.266	0.292
	Back side	0.322	0.194	0.328	0.039	0.516	0.689
	Left side	0.010	0.000	0.000	0.000	0.010	0.010
	Right side	0.073	0.167	0.248	0.002	0.240	0.323
	Top side	0.385	0.103	0.373	0.002	0.488	0.760
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N77 Part 27Q	Front side	0.092	0.156	0.180	0.002	0.248	0.274
	Back side	0.258	0.194	0.328	0.039	0.452	0.625
	Left side	0.014	0.000	0.000	0.000	0.014	0.014
	Right side	0.081	0.167	0.248	0.002	0.248	0.331
	Top side	0.346	0.103	0.373	0.002	0.449	0.721
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Test position	SARmax (W/kg)					Summed SAR		
	LTE EN-DC Max SAR	FR1 EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	1+2+3	1+2+4+5	
	1	2	3	4	5			
B2Ant2 - N5Ant1	Front side	0.175	0.311	0.156	0.180	0.002	0.642	0.668
	Back side	0.276	0.488	0.194	0.328	0.039	0.958	1.131
	Left side	0.160	0.115	0.000	0.000	0.000	0.275	0.275
	Right side	0.000	0.288	0.167	0.248	0.002	0.455	0.538
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.000	0.402	0.000	0.000	0.000	0.402	0.402
B66(4)Ant2 - N5Ant1	Front side	0.206	0.311	0.156	0.180	0.002	0.673	0.699
	Back side	0.363	0.488	0.194	0.328	0.039	1.045	1.218
	Left side	0.000	0.115	0.000	0.000	0.000	0.115	0.115



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	Right side	0.000	0.288	0.167	0.248	0.002	0.455	0.538
	Top side	0.094	0.000	0.103	0.373	0.002	0.197	0.469
	Bottom side	0.000	0.402	0.000	0.000	0.000	0.402	0.402
B30Ant2 - N5Ant1	Front side	0.170	0.311	0.156	0.180	0.002	0.637	0.663
	Back side	0.240	0.488	0.194	0.328	0.039	0.922	1.095
	Left side	0.065	0.115	0.000	0.000	0.000	0.180	0.180
	Right side	0.000	0.288	0.167	0.248	0.002	0.455	0.538
	Top side	0.221	0.000	0.103	0.373	0.002	0.324	0.596
	Bottom side	0.000	0.402	0.000	0.000	0.000	0.402	0.402
B66(4)Ant2 - N2Ant4	Front side	0.206	0.235	0.156	0.180	0.002	0.597	0.623
	Back side	0.363	0.420	0.194	0.328	0.039	0.977	1.150
	Left side	0.000	0.257	0.000	0.000	0.000	0.257	0.257
	Right side	0.000	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.094	0.000	0.103	0.373	0.002	0.197	0.469
	Bottom side	0.000	0.339	0.000	0.000	0.000	0.339	0.339
B12Ant1 - N2Ant4	Front side	0.191	0.235	0.156	0.180	0.002	0.582	0.608
	Back side	0.335	0.420	0.194	0.328	0.039	0.949	1.122
	Left side	0.152	0.257	0.000	0.000	0.000	0.409	0.409
	Right side	0.230	0.000	0.167	0.248	0.002	0.397	0.480
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.248	0.339	0.000	0.000	0.000	0.587	0.587
B13Ant1 - N2Ant4	Front side	0.280	0.235	0.156	0.180	0.002	0.671	0.697
	Back side	0.423	0.420	0.194	0.328	0.039	1.037	1.210
	Left side	0.140	0.257	0.000	0.000	0.000	0.397	0.397
	Right side	0.236	0.000	0.167	0.248	0.002	0.403	0.486
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.366	0.339	0.000	0.000	0.000	0.705	0.705
B30Ant2 - N2Ant4	Front side	0.170	0.235	0.156	0.180	0.002	0.561	0.587
	Back side	0.240	0.420	0.194	0.328	0.039	0.854	1.027
	Left side	0.065	0.257	0.000	0.000	0.000	0.322	0.322
	Right side	0.000	0.000	0.167	0.248	0.002	0.167	0.250



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	Top side	0.221	0.000	0.103	0.373	0.002	0.324	0.596
	Bottom side	0.000	0.339	0.000	0.000	0.000	0.339	0.339
B2Ant2 - N66Ant4	Front side	0.175	0.364	0.156	0.180	0.002	0.695	0.721
	Back side	0.276	0.760	0.194	0.328	0.039	1.230	1.403
	Left side	0.160	0.395	0.000	0.000	0.000	0.555	0.555
	Right side	0.000	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.000	0.402	0.000	0.000	0.000	0.402	0.402
B12Ant1 - N66Ant4	Front side	0.191	0.364	0.156	0.180	0.002	0.711	0.737
	Back side	0.335	0.760	0.194	0.328	0.039	1.289	1.462
	Left side	0.152	0.395	0.000	0.000	0.000	0.547	0.547
	Right side	0.230	0.000	0.167	0.248	0.002	0.397	0.480
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.248	0.402	0.000	0.000	0.000	0.650	0.650
B13Ant1 - N66Ant4	Front side	0.280	0.364	0.156	0.180	0.002	0.800	0.826
	Back side	0.423	0.760	0.194	0.328	0.039	1.377	1.550
	Left side	0.140	0.395	0.000	0.000	0.000	0.535	0.535
	Right side	0.236	0.000	0.167	0.248	0.002	0.403	0.486
	Top side	0.000	0.000	0.103	0.373	0.002	0.103	0.375
	Bottom side	0.366	0.402	0.000	0.000	0.000	0.768	0.768
B30Ant2 - N66Ant4	Front side	0.170	0.364	0.156	0.180	0.002	0.690	0.716
	Back side	0.240	0.760	0.194	0.328	0.039	1.194	1.367
	Left side	0.065	0.395	0.000	0.000	0.000	0.460	0.460
	Right side	0.000	0.000	0.167	0.248	0.002	0.167	0.250
	Top side	0.221	0.000	0.103	0.373	0.002	0.324	0.596
	Bottom side	0.000	0.402	0.000	0.000	0.000	0.402	0.402
B2Ant2 - N48Ant3	Front side	0.175	0.068	0.156	0.180	0.002	0.399	0.425
	Back side	0.276	0.238	0.194	0.328	0.039	0.708	0.881
	Left side	0.160	0.010	0.000	0.000	0.000	0.170	0.170
	Right side	0.000	0.069	0.167	0.248	0.002	0.236	0.319
	Top side	0.000	0.313	0.103	0.373	0.002	0.416	0.688



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	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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Product specific 10g SAR :

Test position		SARmax (W/kg)				Summed SAR	
		Main All Ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7		
		1	2	3	4	1+2	1+3+4
GSM850	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.000	0.000	0.632	0.000	0.000	0.632



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	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B25	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B30	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583



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	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B48	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B71	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N5	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000



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	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N25	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N48	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N71	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334



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	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N77 Part 270	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N77 Part 27Q	Front side	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR	
		LTE EN-DC Max SAR	FR1 EN-DC Max SAR	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	1+2+3	1+2+4+5
		1	2	3	4	5		
B2Ant2 - N5Ant1	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B66(4)Ant2 - N5Ant1	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537



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	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B30Ant2 - N5Ant1	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B66(4)Ant2 - N2Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B12Ant1 - N2Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B13Ant1 - N2Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B30Ant2 - N2Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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B2Ant2 - N66Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B12Ant1 - N66Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B13Ant1 - N66Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B30Ant2 - N66Ant4	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B2Ant2 - N48Ant3	Front side	0.000	0.000	0.000	0.632	0.000	0.000	0.632
	Back side	0.000	0.000	0.000	0.583	0.000	0.000	0.583
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.000	0.000	0.000	0.334	0.000	0.000	0.334
	Top side	0.000	0.000	0.000	0.537	0.000	0.000	0.537
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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10 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM1	1769	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1327	2023-11-17	2024-11-16
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7735	2023-10-17	2024-10-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1214	2022-02-07	2025-02-06
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2300V2	1124	2022-02-03	2025-02-02
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1187	2022-02-03	2025-02-02
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	1133	2022-02-08	2025-02-07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	1108	2022-02-07	2025-02-06
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	1083	2022-02-08	2025-02-07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1174	2023-8-23	2026-08-22
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	182393	2024-02-05	2025-02-04
<input checked="" type="checkbox"/>	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2002H	121251	2023-09-13	2024-09-12
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	LKM	DTM3000	NA	2023-09-14	2024-09-13
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-14	2024-09-13

Note: All the equipments 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---



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