

Report No.: SEWM2309000387RG07

Rev.: 01

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FCC SAR TEST REPORT

Application No.: SEWM2309000387RG
Applicant: Cloud Mobile Holdings, LLC
Manufacturer: Cloud Mobile Holdings, LLC
Product Name: Smart Phone
Model No.(EUT): Stratus C8
Trade Mark: Cloud Mobile
FCC ID: 2AY6A-C8
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023-08-14
Date of Test: 2023-10-23 to 2023-11-11
Date of Issue: 2023-11-16
Test conclusion: **PASS ***

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

Authorized Signature:

Well Wei

Well Wei

Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2309000387RG07	01	Original	2023-11-16



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.58	0.60	0.86	/
GSM1900	1.23	0.24	0.90	/
WCDMA Band II	1.08	0.33	0.74	/
WCDMA Band IV	0.22	0.37	0.74	/
WCDMA Band V	0.28	0.26	0.38	/
LTE Band 2	0.49	0.65	1.04	/
LTE Band 5	0.46	0.38	0.25	/
LTE Band 7	1.05	0.36	0.75	/
LTE Band 12(17)	0.31	0.51	0.48	/
LTE Band 13	0.29	0.38	0.43	/
LTE Band 41	0.90	0.29	0.64	/
LTE Band 66(4)	0.44	0.52	1.05	/
LTE Band 71	0.24	0.41	0.45	/
WI-FI (2.4GHz)	0.72	0.15	0.26	/
WI-FI (5GHz)	0.71	0.41	0.69	1.20
BT	0.09	0.02	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	1.59	1.08	1.57	/
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range:1710 - 1755 MHz)/ LTE Band 17 (Frequency range:704-716 MHz) is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz)/ LTE Band 12 (Frequency range:699-716 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

2) For LTE band 4/5/12/13/17 that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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.

Reviewed by

Nick Hu

Nick Hu

Prepared by

Leon Xu

Leon Xu



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1 General Information

1.1 Details of Client

Applicant:	Cloud Mobile Holdings, LLC
Address:	1149 S Hill St, H-400 Los Angeles, CA 90015
Manufacturer:	Cloud Mobile Holdings, LLC
Address:	1149 S Hill St, H-400 Los Angeles, CA 90015

1.2 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



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1.3 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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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Smart Phone		
Model No.(EUT):	Stratus C8		
FCC ID:	2AY6A-C8		
Trade Mark:	Cloud Mobile		
Product Phase:	Identical Prototype		
IMEI:	1# 354904220000629,354904220000637; 2# 354904220000686,354904220000694;		
Hardware Version:	AL_W20_MB_V12_C		
Software Version:	Stratus_C8_V202_20240129		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK; WCDMA: QPSK,16QAM;		
	LTE: QPSK,16QAM,64QAM;		
	WIFI: DSSS, OFDM; BT: GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	4	EGPRS Multi-slots Class:	4
HSDPA UE Category:	7	HSUPA UE Category	7
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 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 41	2496-2690	2496-2690
	LTE Band 66	1710-1780	2110-2200
	LTE Band 71	663-698	617-652



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	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2400~2483.5	2400~2483.5
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
RF Cable:	Provided by the aplicant Provided by the laboratory		
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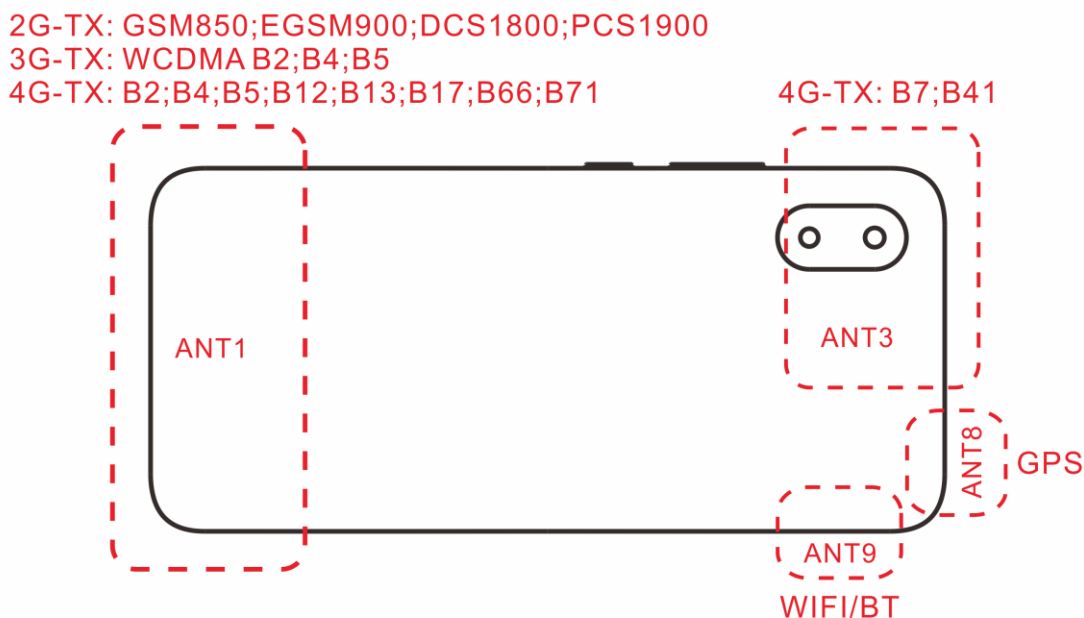


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1.4.1 DUT Antenna Locations (Back View)



Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 178mm. 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 3	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 9	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No

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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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
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 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

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

Notes:

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

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

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

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

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



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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 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.

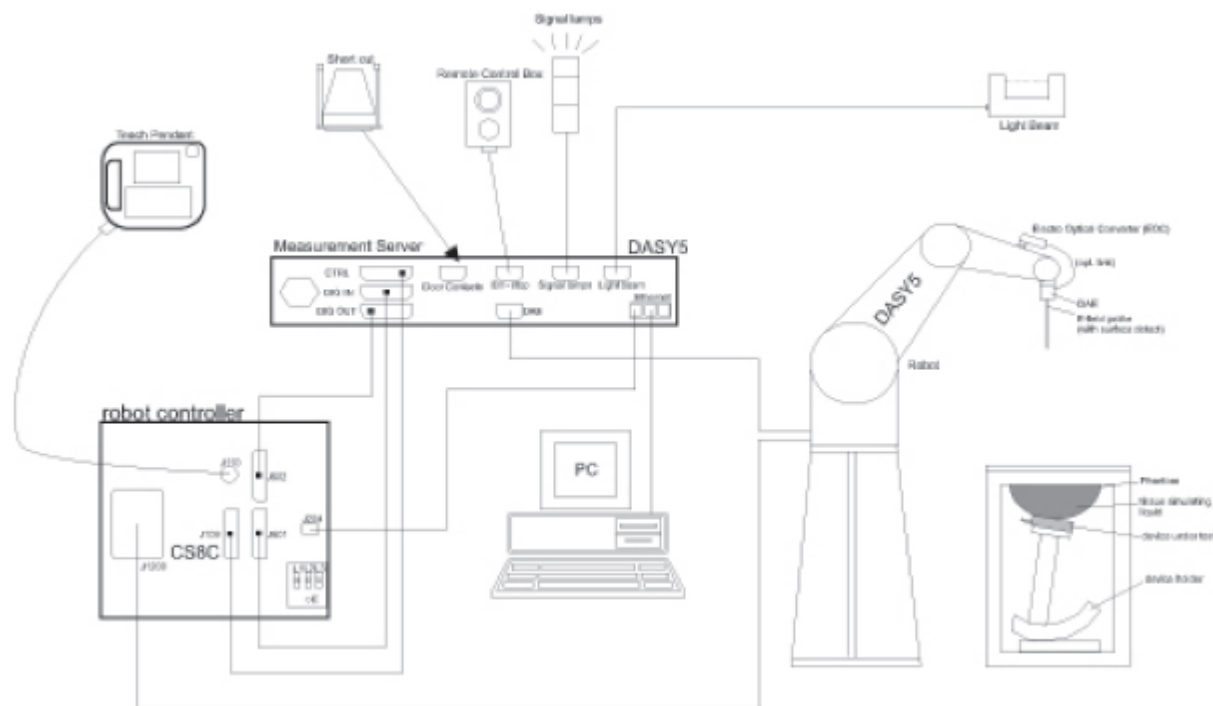
The DASY5 system for performing compliance tests consists of the following items:

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.

3.2 Isotropic E-field Probe EX3DV4

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

3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

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

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	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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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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

3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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

Step 4: Power reference measurement (drift)

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



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".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.

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

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

With V_i = compensated signal of channel i (i = x, y, z)
 U_i = input signal of channel i (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp i = diode compression point (DASY parameter)

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

E-field probes:

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



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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 ($i = x, y, z$)

Normi = 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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4 SAR measurement variability and uncertainty

4.1 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 ($\sim 10\%$ from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



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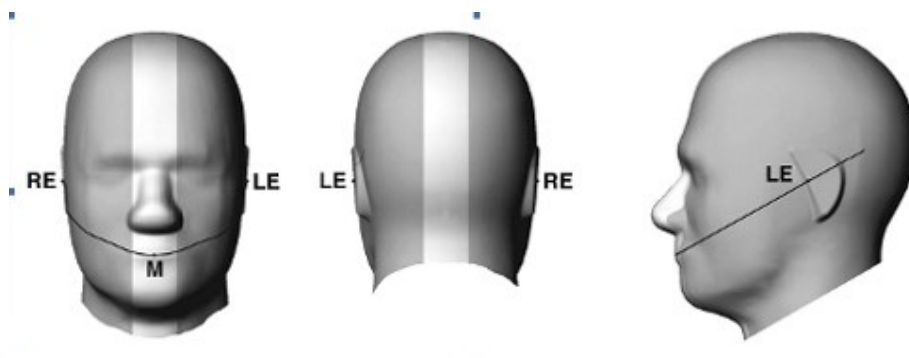
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5 Description of Test Position

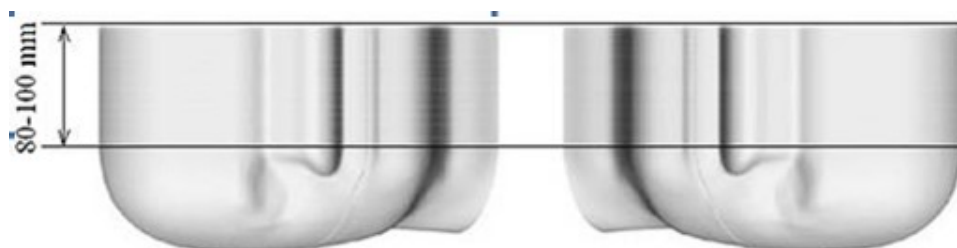
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

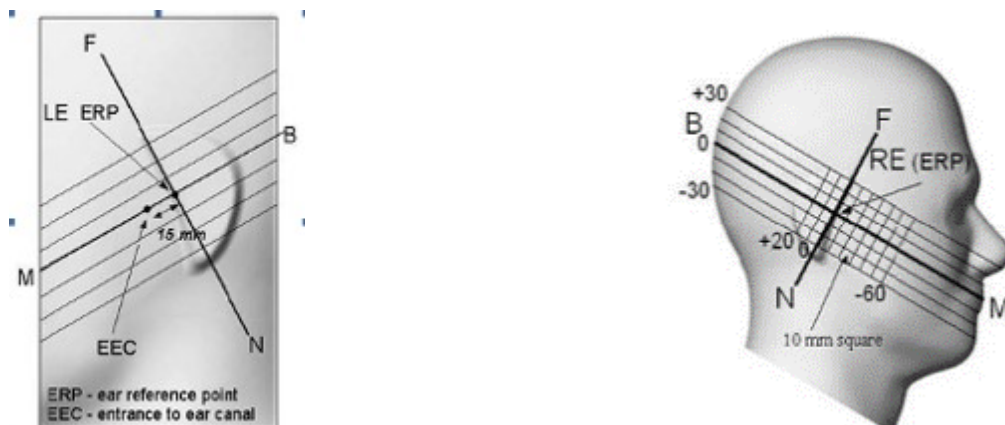


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

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



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

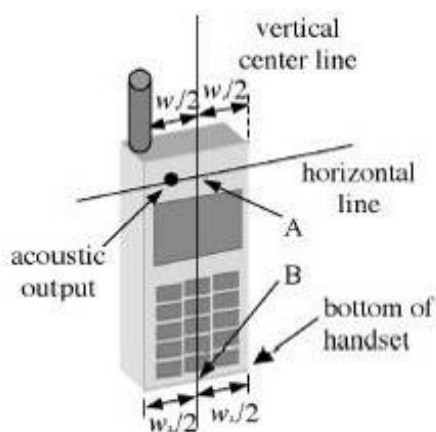


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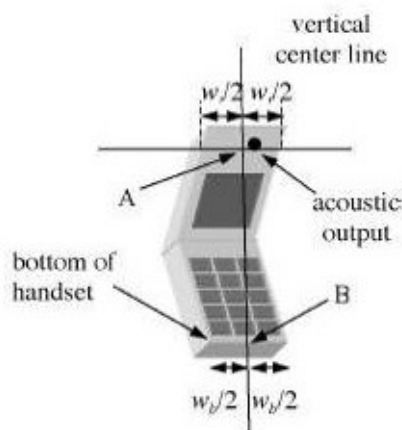
F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

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

5.1.2 EUT constructions



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



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

5.1.3 Definition of the "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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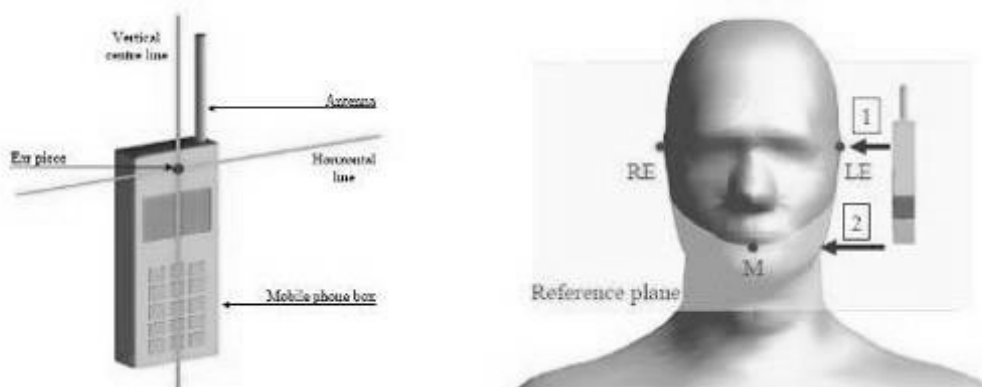
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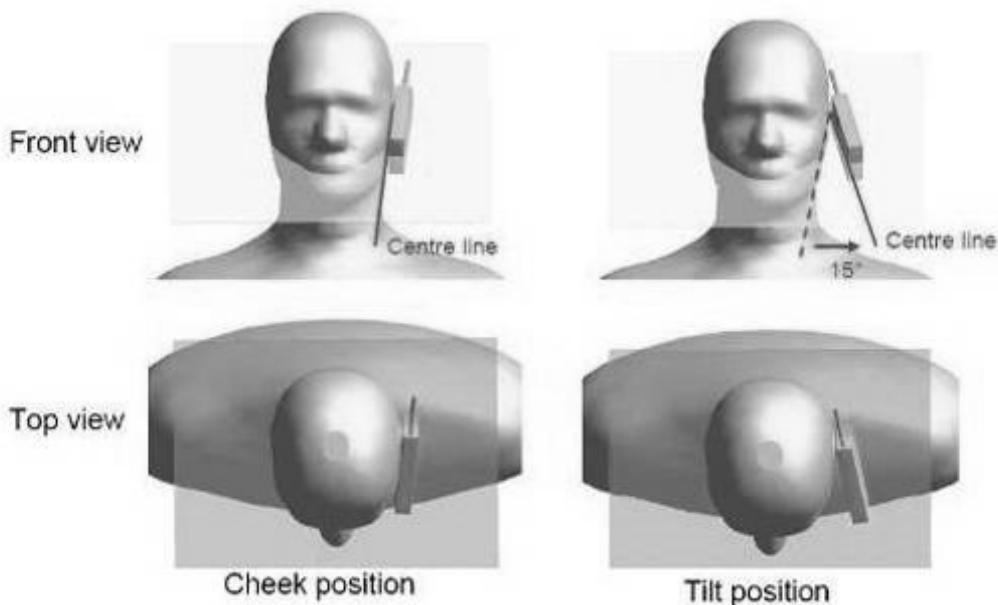
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5.1.4 Definition of the “tilted” position

- Position the device in the “cheek” position described above;
- 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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5.2 Body Exposure Condition

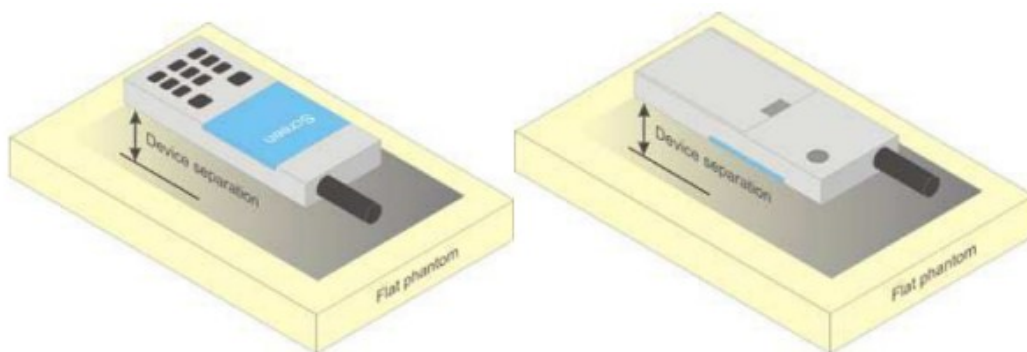
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 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.

5.3 Extremity exposure conditions

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

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

Due to the SAR result, hotspot power levels, and product specific 10g SAR power levels are the same, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	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					
HSL13MHz is composed of the following ingredients: Water: 50-90% Non-ionic detergents: 5-50% NaCl: 0-2% Preservative: 0.03-0.1% 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



6.1.2 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 $22\pm 2^{\circ}\text{C}$.

Measurement for Tissue Simulate Liquid							
Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	($^{\circ}\text{C}$)	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.575	0.889	22.3	2023-10-23
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	42.910	0.894	22.4	2023-10-25
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.033	1.345	22.3	2023-11-09
1950 Head	1950	40.0 (38.00~42.00)	1.40 (1.33~1.47)	38.820	1.459	22.5	2023-11-07
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.192	1.779	22.4	2023-10-29
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.659	1.950	22.2	2023-11-11
5250 Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	35.623	4.695	22.4	2023-11-03
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	34.950	5.166	22.2	2023-11-04
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.579	5.349	22.3	2023-11-05

Table 4: Measurement result of Tissue electric parameters.



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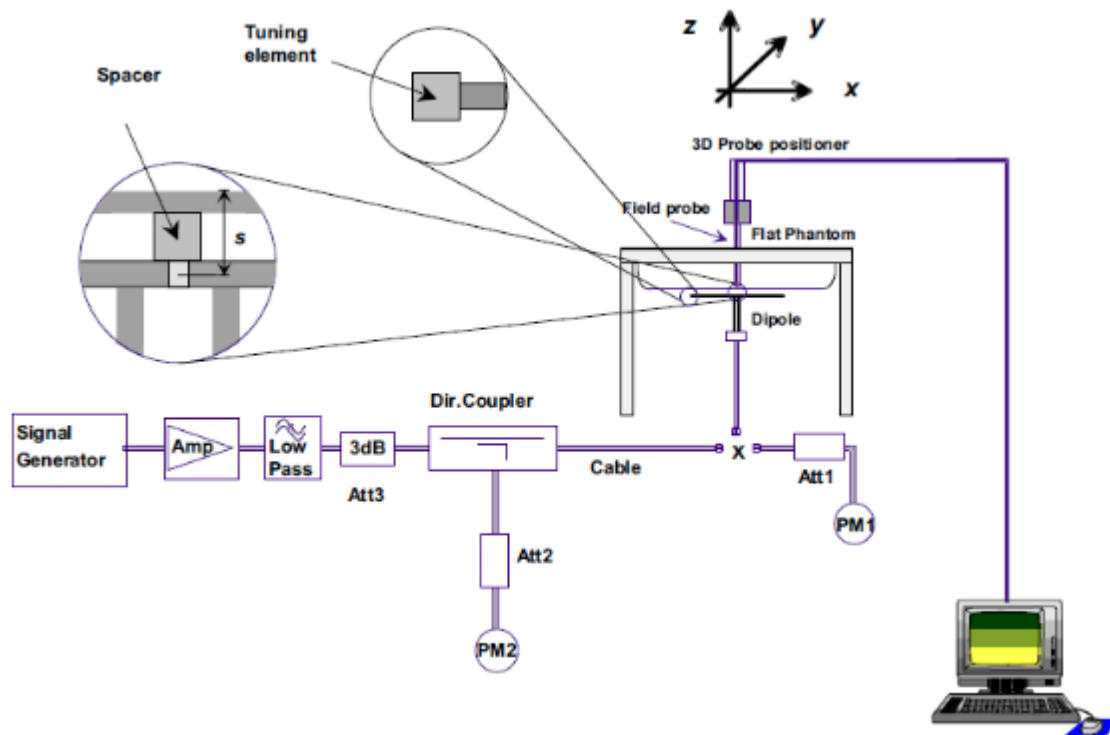
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6.2 SAR System Check

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



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

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6.2.1 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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6.2.2 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.

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 **23.01%**.

a	b	c	d = f(d,k)	F	i = C*g/e	K
Uncertainty Component	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g _{ui} (%)	Vi(Veff)
Probe calibration	6.65	N	1	1	6.65	∞
Axial isotropy	0.5	R	$\sqrt{3}$	1	0.29	∞
hemispherical isotropy	2.6	R	$\sqrt{3}$	1	1.50	∞
Linearity	0.6	R	$\sqrt{3}$	1	0.35	∞
Probe modulation response	0	R	$\sqrt{3}$	1	0.00	∞
Detection limits	0.25	R	$\sqrt{3}$	1	0.14	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	0.58	∞
Readout electronics	0.3	N	1	1	0.30	∞
Response time	0	R	$\sqrt{3}$	1	0.00	∞
Integration time	2.6	R	$\sqrt{3}$	1	1.50	∞
RF ambient conditions – noise	3	R	$\sqrt{3}$	1	1.73	∞
RF ambient conditions – reflections	3	R	$\sqrt{3}$	1	1.73	∞
Probe positioner mech. restrictions	1.5	R	$\sqrt{3}$	1	0.87	∞
Probe positioning with respect to phantom shell	2.9	R	$\sqrt{3}$	1	1.67	∞
Post-processing	1	R	$\sqrt{3}$	1	0.58	∞
Device holder uncertainty	3.6	N	1	1	3.60	∞
Test sample positioning	3.7	N	1	1	3.70	9
Power scaling	5.0	R	$\sqrt{3}$	1	2.89	∞
Drift of output power (measured SAR drift)	5	R	$\sqrt{3}$	1	2.89	∞
Phantom uncertainty (shape and thickness tolerances)	4	R	$\sqrt{3}$	1	2.31	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	1.90	∞
Liquid conductivity (meas.)	5.78	N	1	0.78	4.51	4
Liquid permittivity (meas.)	0.62	N	1	0.23	0.14	5
Liquid permittivity –temperature uncertainty	0.2	R	$\sqrt{3}$	0.78	0.09	∞
Liquid conductivity –temperature uncertainty	5.37	R	$\sqrt{3}$	0.23	071	∞
Combined standard uncertainty RSS					11.51	417
Expanded uncertainty (95% CONFIDENCE INTERVAL) k=2					23.01	

Table 1: Measurement Uncertainty.



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6.2.3 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	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)		
D750V3	Head	1.96	1.29	7.84	5.16	8.48	5.56	22.3	2023-10-23
D835V2	Head	2.26	1.47	9.04	5.88	9.52	6.17	22.4	2023-10-25
D1750V2	Head	8.29	4.46	33.16	17.84	35.30	18.70	22.3	2023-11-09
D1950V2	Head	9.56	4.88	38.24	19.52	40.40	20.80	22.5	2023-11-07
D2450V2	Head	12.60	5.93	50.40	23.72	52.20	24.50	22.4	2023-10-29
D2600V2	Head	13.90	6.24	55.60	24.96	57.10	25.40	22.2	2023-11-11
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)	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)		
D5GHzV2	Head(5.25GHz)	7.93	2.29	79.30	22.90	78.00	21.80	22.4	2023-11-03
	Head(5.6GHz)	8.21	2.33	82.10	23.30	79.90	22.50	22.2	2023-11-04
	Head(5.75GHz)	7.81	2.23	78.10	22.30	76.40	21.20	22.3	2023-11-05

Table 5: SAR System Check Result.

6.2.4 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using 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 12 for this EUT, it has at most 4 timeslots in uplink and at most 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

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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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / 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	$\beta_d(\text{SF})$	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 , ΔNACK and $\Delta\text{CQI} = 8$ 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 $\Delta\text{NACK} = 8$ (Ahs = 30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta\text{CQI} = 7$ (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⁾ ^c	β_{ec} ^c	β_{ed} ^c	β_c (SF) ^c	β_{ed} (code) ^c	CM ⁽²⁾ (dB) ^c	MP R ^c (dB) ^c	AG ⁽⁴⁾ Inde ^x	E-TFC I ^c
1 ^c	11/15 ⁽³⁾ ^c	15/15 ⁽³⁾ ^c	64 ^c	11/15 ⁽³⁾ ^c	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	$\beta_{ed1}: 47/15c$ $\beta_{ed2}: 47/15c$	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾ ^c	15/15 ⁽⁴⁾ ^c	64 ^c	15/15 ⁽⁴⁾ ^c	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c
Note 1: ΔACK , $\Delta NACK$ 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 E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).						

Table 9: HSUPA UE category



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c) DC-HSDPA

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

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

Table 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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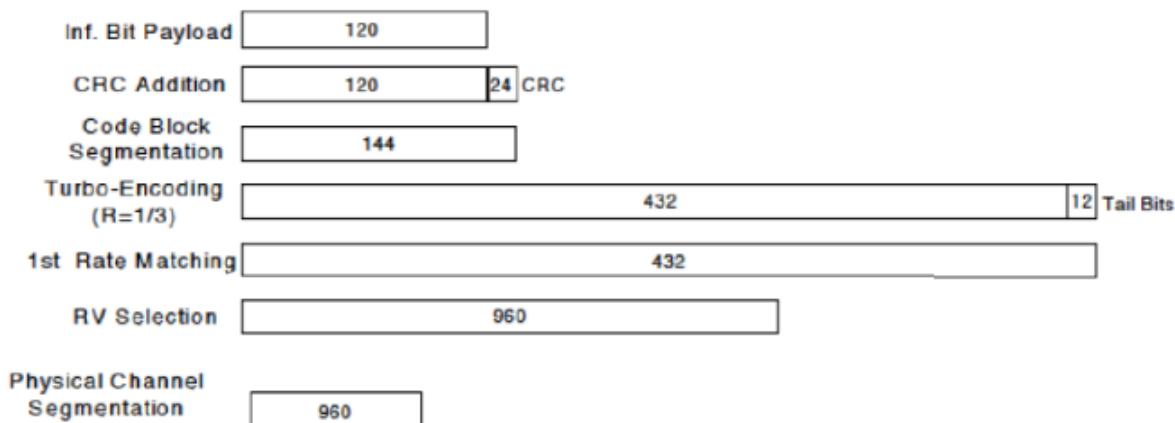


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR ^o (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

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

Note2: 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.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

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

Note:

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



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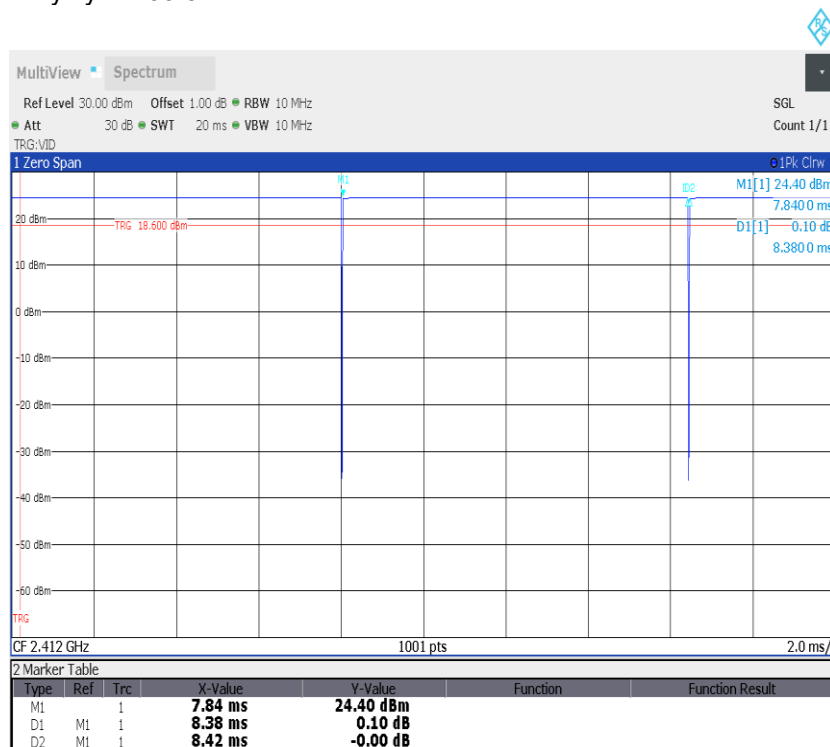
7.2.3 WiFi Test Configuration

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

7.2.3.1. Duty cycle

Wi-Fi 2.4GHz 802.11b :

Duty cycle=99.52%



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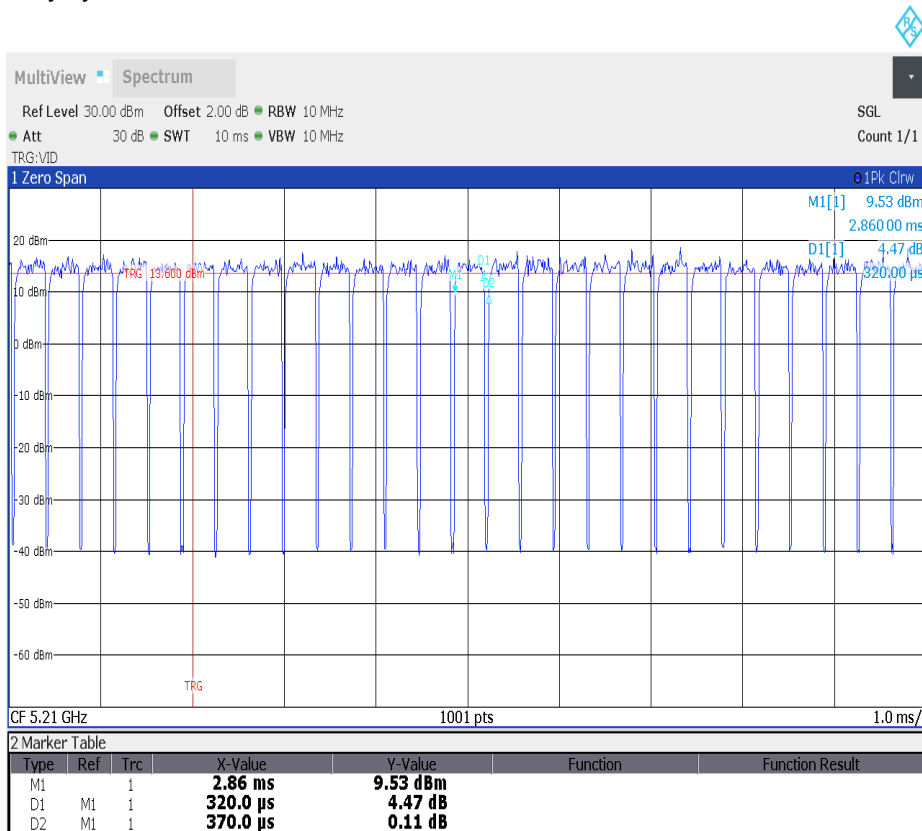
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Wi-Fi 5GHz 802.11ac 80M :
Duty cycle=86.49%



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7.2.3.2. Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3. 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.

7.2.3.4. 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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7. 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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7.2.4 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.

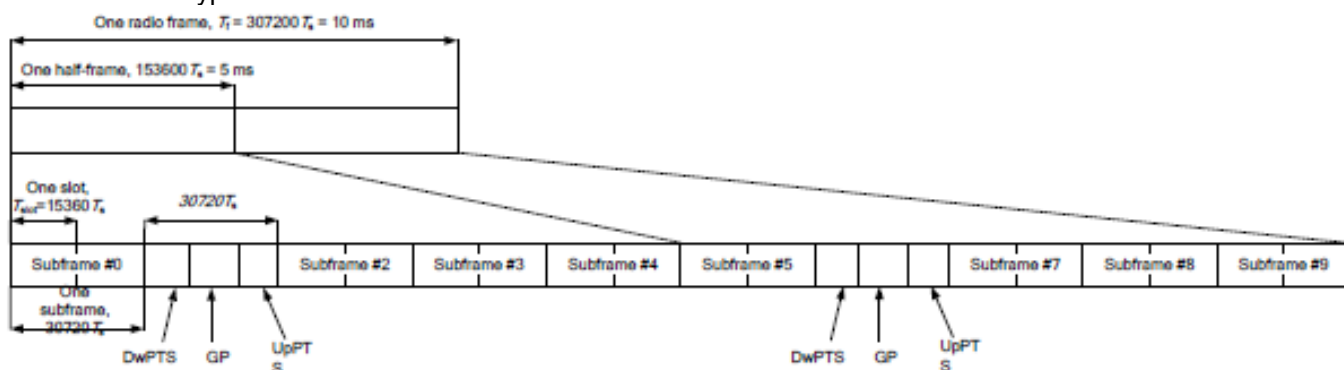
TDD LTE test consideration

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 Test Result

8.1 Measurement of RF conducted Power

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.
- 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.



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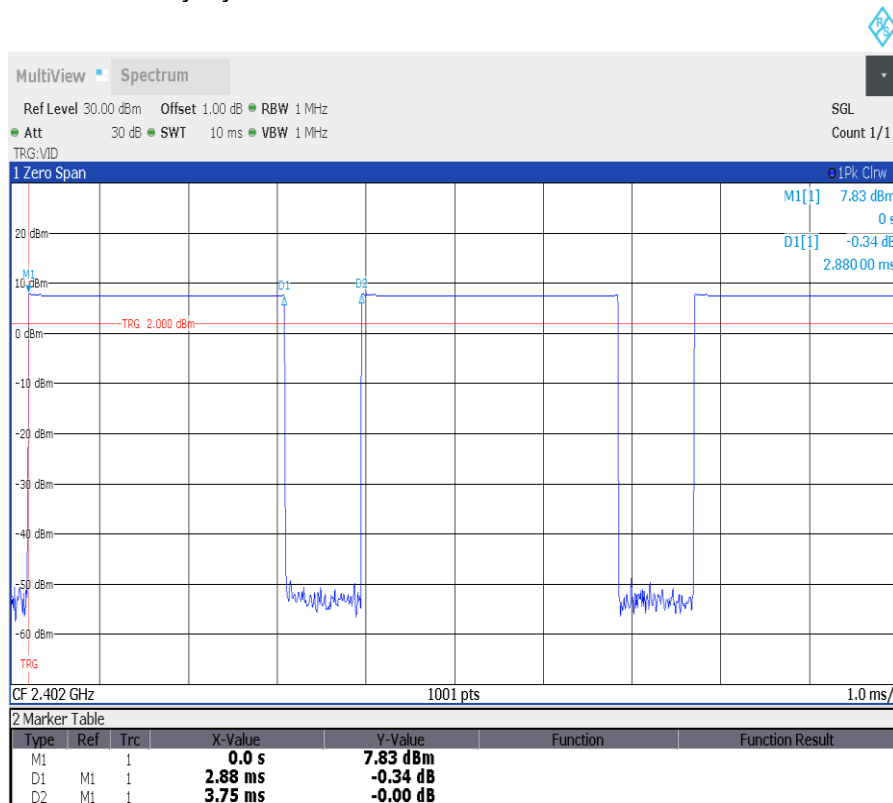
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2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent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

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

BT DH5 Duty Cycle=76.80%



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8.1.1 Measurement Conducted Power of GSM850

GSM 850										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	32.03	32.03	31.88	33.50	-9.19	22.84	22.84	22.69	24.31
GPRS/EGPRS (GMSK)	1 TX Slot	32.01	32.02	31.86	33.50	-9.19	22.82	22.83	22.67	24.31
	2 TX Slots	31.36	31.41	31.27	32.50	-6.18	25.18	25.23	25.09	26.32
	3 TX Slots	29.47	29.64	29.46	30.50	-4.42	25.05	25.22	25.04	26.08
	4 TX Slots	27.93	28.11	28.01	29.00	-3.17	24.76	24.94	24.84	25.83

Table 11: Measurement Conducted Power of GSM850.

8.1.2 Measurement Conducted Power of GSM1900

GSM 1900										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	26.98	27.13	27.02	28.00	-9.19	17.79	17.94	17.83	18.81
GPRS/EGPRS (GMSK)	1 TX Slot	26.96	27.10	27.00	28.00	-9.19	17.77	17.91	17.81	18.81
	2 TX Slots	26.07	26.15	26.14	27.00	-6.18	19.89	19.97	19.96	20.82
	3 TX Slots	23.94	23.97	23.91	25.00	-4.42	19.52	19.55	19.49	20.58
	4 TX Slots	22.77	22.84	22.56	23.50	-3.17	19.60	19.67	19.39	20.33

Table 12: Measurement Conducted Power of GSM1900.

8.1.3 Measurement Conducted Power of WCDMA II

WCDMA Band II					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	20.02	20.08	20.04	21.00
	12.2kbps AMR	19.83	20.02	19.85	21.00
HSDPA	Subtest 1	18.99	18.97	18.92	20.00
	Subtest 2	18.88	18.88	18.92	20.00
	Subtest 3	18.50	18.41	18.34	19.50
	Subtest 4	18.49	18.41	18.35	19.50
HSUPA	Subtest 1	16.91	17.03	16.92	18.00
	Subtest 2	16.98	17.05	16.93	18.00
	Subtest 3	17.95	17.89	17.87	19.00
	Subtest 4	16.33	16.53	16.36	17.50
	Subtest 5	18.00	17.96	18.00	19.00
HSPA+	16QAM	18.01	18.07	17.88	19.00

Table 13: Measurement Conducted Power of WCDMA II.

8.1.4 Measurement Conducted Power of WCDMA IV

WCDMA Band IV					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	21.98	22.06	22.04	23.00
	12.2kbps AMR	21.81	22.01	21.92	23.00
HSDPA	Subtest 1	20.96	20.94	20.85	22.00
	Subtest 2	20.78	20.96	20.89	22.00



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	Subtest 3	20.34	20.53	20.44	21.50
	Subtest 4	20.38	20.37	20.35	21.50
HSUPA	Subtest 1	18.86	18.87	18.92	20.00
	Subtest 2	18.94	18.98	18.90	20.00
	Subtest 3	19.94	19.99	20.00	21.00
	Subtest 4	18.45	18.50	18.36	19.50
	Subtest 5	19.87	19.86	19.96	21.00
HSPA+	16QAM	19.80	19.86	19.91	21.00

Table 14: Measurement Conducted Power of WCDMA IV.

8.1.5 Measurement Conducted Power of WCDMA V

WCDMA Band V					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	21.86	22.04	22.01	23.00
	12.2kbps AMR	21.74	21.95	21.86	23.00
HSDPA	Subtest 1	20.86	20.99	20.88	22.00
	Subtest 2	20.81	21.02	20.88	22.00
	Subtest 3	20.25	20.39	20.34	21.50
	Subtest 4	20.27	20.52	20.43	21.50
HSUPA	Subtest 1	18.78	18.96	18.83	20.00
	Subtest 2	18.85	18.94	18.86	20.00
	Subtest 3	19.70	19.88	19.99	21.00
	Subtest 4	18.30	18.45	18.38	19.50
	Subtest 5	19.82	20.02	19.83	21.00
HSPA+	16QAM	19.67	19.84	19.96	21.00

Table 15: Measurement Conducted Power of WCDMA V.

8.1.6 Measurement Conducted Power of LTE Band 2

LTE Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	24.08	24.18	23.93	25.00
		1	2	24.06	24.16	23.93	25.00
		1	5	24.06	24.15	23.88	25.00
		3	0	24.01	24.16	24.04	25.00
		3	2	24.09	24.15	23.88	25.00
		3	3	24.14	24.02	23.98	25.00
		6	0	23.15	23.18	23.02	24.00
	16QAM	1	0	23.16	23.16	23.04	24.00
		1	2	23.09	23.16	22.94	24.00
		1	5	23.04	23.20	23.00	24.00
		3	0	23.01	23.15	23.00	24.00
		3	2	23.10	23.03	22.97	24.00
		3	3	23.13	23.17	22.87	24.00
		6	0	22.18	22.10	22.05	23.00
	64QAM	1	0	22.07	22.09	21.87	23.00



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		1	2	22.10	22.19	22.02	23.00
		1	5	22.10	22.05	22.01	23.00
		3	0	22.10	22.09	21.99	23.00
		3	2	22.11	22.07	22.04	23.00
		3	3	22.05	22.07	22.02	23.00
		6	0	20.16	20.03	19.99	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	24.10	24.20	23.90	25.00
		1	7	24.04	24.08	24.04	25.00
		1	14	24.09	24.03	24.02	25.00
		8	0	23.19	23.03	22.90	24.00
		8	4	23.17	23.05	22.93	24.00
		8	7	23.09	23.14	23.04	24.00
		15	0	23.08	23.13	22.99	24.00
	16QAM	1	0	23.08	23.17	22.93	24.00
		1	7	23.00	23.16	22.91	24.00
		1	14	23.04	23.15	22.94	24.00
		8	0	22.05	22.06	22.00	23.00
		8	4	22.08	22.19	22.06	23.00
		8	7	22.17	22.15	21.98	23.00
		15	0	22.07	22.17	22.04	23.00
	64QAM	1	0	22.17	22.15	21.93	23.00
		1	7	22.03	22.17	22.06	23.00
		1	14	22.18	22.16	21.86	23.00
		8	0	21.13	21.17	20.89	22.00
		8	4	21.08	21.03	20.95	22.00
		8	7	21.09	21.05	20.94	22.00
		15	0	21.03	21.04	20.98	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	24.15	24.05	24.04	25.00
		1	13	24.03	24.06	23.96	25.00
		1	24	24.02	24.08	24.01	25.00
		12	0	23.01	23.09	22.95	24.00
		12	6	22.99	23.16	22.89	24.00
		12	13	23.12	23.19	23.05	24.00
		25	0	23.01	23.08	22.90	24.00
	16QAM	1	0	23.00	23.10	22.93	24.00
		1	13	23.02	23.10	22.99	24.00
		1	24	23.12	23.02	22.86	24.00
		12	0	21.99	22.16	22.00	23.00
		12	6	22.01	22.04	21.90	23.00
		12	13	22.12	22.16	21.94	23.00
		25	0	22.19	22.03	21.89	23.00
	64QAM	1	0	22.15	22.21	22.01	23.00
		1	13	22.05	22.10	21.97	23.00
		1	24	22.08	22.20	21.93	23.00
		12	0	21.15	21.09	21.01	22.00



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		12	6	21.00	21.02	21.03	22.00
		12	13	21.09	21.18	21.04	22.00
		25	0	21.01	21.17	20.94	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	24.15	24.20	24.03	25.00
		1	25	24.11	24.17	24.03	25.00
		1	49	24.04	24.08	23.91	25.00
		25	0	23.16	23.01	23.00	24.00
		25	13	23.10	23.05	23.02	24.00
		25	25	23.18	23.18	22.90	24.00
		50	0	23.09	23.05	22.89	24.00
		1	0	23.11	23.03	23.03	24.00
	16QAM	1	25	23.09	23.04	22.98	24.00
		1	49	23.00	23.20	23.02	24.00
		25	0	22.17	22.08	22.01	23.00
		25	13	22.14	22.04	22.03	23.00
		25	25	22.12	22.10	21.91	23.00
		50	0	22.14	22.05	21.87	23.00
		1	0	22.15	22.13	21.94	23.00
		1	25	22.11	22.18	22.03	23.00
	64QAM	1	49	22.08	22.21	21.94	23.00
		25	0	21.13	21.11	20.94	22.00
		25	13	21.02	21.15	20.88	22.00
		25	25	21.12	21.11	20.90	22.00
		50	0	21.01	21.10	20.93	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	24.16	24.06	24.03	25.00
		1	38	24.01	24.05	23.91	25.00
		1	74	24.09	24.02	23.90	25.00
		36	0	23.19	23.10	22.97	24.00
		36	18	23.00	23.01	22.97	24.00
		36	39	23.06	23.01	22.97	24.00
		75	0	23.11	23.03	23.01	24.00
		1	0	23.05	23.19	22.88	24.00
	16QAM	1	38	23.15	23.21	22.87	24.00
		1	74	23.13	23.14	22.91	24.00
		36	0	22.12	22.08	22.06	23.00
		36	18	22.06	22.10	21.96	23.00
		36	39	22.10	22.19	21.88	23.00
		75	0	22.04	22.14	21.95	23.00
		1	0	22.10	22.03	21.89	23.00
		1	38	22.07	22.12	21.87	23.00
	64QAM	1	74	22.12	22.04	21.91	23.00
		36	0	21.08	21.08	21.04	22.00
		36	18	21.11	21.10	20.91	22.00
		36	39	21.11	21.18	20.92	22.00
		75	0	21.01	21.18	20.89	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				18700	18900	19100	
20MHz	QPSK	1	0	24.19	24.21	24.06	25.00
		1	50	24.12	24.17	24.01	25.00
		1	99	24.06	24.19	23.97	25.00
		50	0	23.22	23.23	23.16	24.00
		50	25	23.19	23.13	22.88	24.00
		50	50	23.07	23.12	22.89	24.00
		100	0	23.08	23.06	22.91	24.00
	16QAM	1	0	23.16	23.20	23.02	24.00
		1	50	23.02	23.07	22.92	24.00
		1	99	23.13	23.09	22.95	24.00
		50	0	22.09	22.10	22.01	23.00
		50	25	22.11	22.03	21.92	23.00
		50	50	22.15	22.11	22.03	23.00
		100	0	21.99	22.09	21.86	23.00
	64QAM	1	0	22.05	22.12	21.98	23.00
		1	50	22.14	22.07	21.97	23.00
		1	99	22.17	22.16	21.98	23.00
		50	0	21.17	21.16	21.04	22.00
		50	25	21.02	21.18	20.93	22.00
		50	50	21.09	21.09	20.86	22.00
		100	0	21.08	21.05	21.01	22.00

Table 16: Measurement Conducted Power of LTE Band 2.

8.1.7 Measurement Conducted Power of LTE Band 4

LTE Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	22.79	22.86	22.68	24.00
		1	2	22.70	22.78	22.78	24.00
		1	5	22.72	22.74	22.77	24.00
		3	0	22.67	22.79	22.77	24.00
		3	2	22.61	22.84	22.55	24.00
		3	3	22.67	22.78	22.68	24.00
		6	0	21.76	21.74	21.77	23.00
	16QAM	1	0	21.69	21.70	21.80	23.00
		1	2	21.79	21.84	21.69	23.00
		1	5	21.77	21.71	21.80	23.00
		3	0	21.74	21.58	21.50	23.00
		3	2	21.77	21.64	21.58	23.00
		3	3	21.73	21.52	21.65	23.00
		6	0	20.69	20.71	20.79	22.00
	64QAM	1	0	20.80	20.80	20.68	22.00
		1	2	20.77	20.87	20.66	22.00
		1	5	20.73	20.73	20.77	22.00
		3	0	20.69	20.86	20.59	22.00
		3	2	20.72	20.75	20.70	22.00



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		3	3	20.60	20.66	20.75	22.00
		6	0	19.85	19.88	19.80	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	22.76	22.85	22.69	24.00
		1	7	22.81	22.83	22.70	24.00
		1	14	22.75	22.82	22.70	24.00
		8	0	21.77	21.78	21.78	23.00
		8	4	21.87	21.84	21.76	23.00
		8	7	21.87	21.71	21.81	23.00
		15	0	21.83	21.77	21.75	23.00
	16QAM	1	0	21.85	21.70	21.68	23.00
		1	7	21.80	21.89	21.71	23.00
		1	14	21.70	21.83	21.70	23.00
		8	0	20.69	20.77	20.71	22.00
		8	4	20.79	20.87	20.83	22.00
		8	7	20.69	20.82	20.66	22.00
		15	0	20.69	20.86	20.74	22.00
	64QAM	1	0	20.68	20.71	20.70	22.00
		1	7	20.88	20.76	20.68	22.00
		1	14	20.70	20.76	20.67	22.00
		8	0	19.69	19.81	19.70	21.00
		8	4	19.83	19.75	19.74	21.00
		8	7	19.83	19.76	19.72	21.00
		15	0	19.73	19.87	19.69	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.83	22.88	22.81	24.00
		1	13	22.69	22.72	22.82	24.00
		1	24	22.85	22.83	22.78	24.00
		12	0	21.84	21.85	21.83	23.00
		12	6	21.79	21.88	21.80	23.00
		12	13	21.68	21.76	21.71	23.00
		25	0	21.72	21.74	21.78	23.00
	16QAM	1	0	21.78	21.81	21.71	23.00
		1	13	21.81	21.74	21.69	23.00
		1	24	21.86	21.87	21.74	23.00
		12	0	20.83	20.70	20.75	22.00
		12	6	20.75	20.80	20.79	22.00
		12	13	20.71	20.71	20.67	22.00
		25	0	20.77	20.72	20.76	22.00
	64QAM	1	0	20.86	20.82	20.72	22.00
		1	13	20.75	20.81	20.76	22.00
		1	24	20.79	20.72	20.71	22.00
		12	0	19.81	19.87	19.83	21.00
		12	6	19.80	19.83	19.68	21.00
		12	13	19.79	19.80	19.68	21.00
		25	0	19.73	19.76	19.68	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				20000	20175	20350	
10MHz	QPSK	1	0	22.87	22.73	22.67	24.00
		1	25	22.79	22.73	22.82	24.00
		1	49	22.75	22.85	22.67	24.00
		25	0	21.85	21.89	21.67	23.00
		25	13	21.73	21.89	21.81	23.00
		25	25	21.73	21.81	21.69	23.00
		50	0	21.70	21.76	21.80	23.00
	16QAM	1	0	21.80	21.72	21.71	23.00
		1	25	21.76	21.72	21.73	23.00
		1	49	21.86	21.73	21.67	23.00
		25	0	20.79	20.84	20.73	22.00
		25	13	20.82	20.83	20.65	22.00
		25	25	20.83	20.85	20.66	22.00
		50	0	20.85	20.69	20.76	22.00
	64QAM	1	0	20.69	20.71	20.82	22.00
		1	25	20.80	20.86	20.78	22.00
		1	49	20.68	20.81	20.65	22.00
		25	0	19.81	19.75	19.66	21.00
		25	13	19.71	19.82	19.74	21.00
		25	25	19.70	19.71	19.81	21.00
		50	0	19.72	19.74	19.67	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	22.85	22.72	22.70	24.00
		1	38	22.70	22.74	22.71	24.00
		1	74	22.78	22.71	22.74	24.00
		36	0	21.81	21.78	21.73	23.00
		36	18	21.74	21.70	21.80	23.00
		36	39	21.88	21.75	21.80	23.00
		75	0	21.79	21.88	21.67	23.00
	16QAM	1	0	21.86	21.84	21.73	23.00
		1	38	21.74	21.74	21.80	23.00
		1	74	21.86	21.87	21.80	23.00
		36	0	20.69	20.84	20.73	22.00
		36	18	20.84	20.85	20.76	22.00
		36	39	20.73	20.84	20.74	22.00
		75	0	20.73	20.70	20.65	22.00
	64QAM	1	0	20.74	20.84	20.77	22.00
		1	38	20.68	20.73	20.72	22.00
		1	74	20.82	20.72	20.79	22.00
		36	0	19.88	19.87	19.76	21.00
		36	18	19.69	19.76	19.78	21.00
		36	39	19.76	19.80	19.70	21.00
		75	0	19.69	19.71	19.71	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	22.88	22.89	22.84	24.00
		1	50	22.70	22.85	22.79	24.00
		1	99	22.85	22.74	22.79	24.00



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		50	0	22.06	22.08	22.05	23.00
		50	25	21.71	21.88	21.68	23.00
		50	50	21.72	21.82	21.66	23.00
		100	0	21.84	21.83	21.66	23.00
	16QAM	1	0	21.73	21.76	21.78	23.00
		1	50	21.75	21.87	21.83	23.00
		1	99	21.77	21.82	21.77	23.00
		50	0	20.81	20.85	20.69	22.00
		50	25	20.69	20.88	20.80	22.00
		50	50	20.81	20.75	20.79	22.00
		100	0	20.86	20.83	20.83	22.00
	64QAM	1	0	20.86	20.69	20.72	22.00
		1	50	20.82	20.76	20.76	22.00
		1	99	20.70	20.86	20.84	22.00
		50	0	19.87	19.88	19.76	21.00
		50	25	19.85	19.71	19.66	21.00
		50	50	19.82	19.79	19.79	21.00
		100	0	19.70	19.74	19.80	21.00

Table 17: Measurement Conducted Power of LTE Band 4.

8.1.8 Measurement Conducted Power of LTE Band 5

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	23.72	23.77	23.79	25.00
		1	2	23.68	23.61	23.73	25.00
		1	5	23.66	23.69	23.76	25.00
		3	0	23.60	23.41	23.76	25.00
		3	2	23.77	23.68	23.63	25.00
		3	3	23.75	23.58	23.58	25.00
		6	0	22.71	22.69	22.75	24.00
	16QAM	1	0	22.75	22.58	22.73	24.00
		1	2	22.81	22.66	22.64	24.00
		1	5	22.77	22.66	22.77	24.00
		3	0	22.76	22.62	22.43	24.00
		3	2	22.44	22.62	22.41	24.00
		3	3	22.65	22.47	22.65	24.00
		6	0	21.66	21.58	21.66	23.00
	64QAM	1	0	21.70	21.66	21.61	23.00
		1	2	21.79	21.58	21.71	23.00
		1	5	21.81	21.62	21.74	23.00
		3	0	21.72	21.60	21.65	23.00
		3	2	21.48	21.60	21.61	23.00
		3	3	21.70	21.55	21.64	23.00
		6	0	20.70	20.74	20.75	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	



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3MHz	QPSK	1	0	23.82	23.64	23.75	25.00
		1	7	23.69	23.64	23.73	25.00
		1	14	23.72	23.63	23.61	25.00
		8	0	22.82	22.66	22.77	24.00
		8	4	22.71	22.72	22.67	24.00
		8	7	22.81	22.75	22.79	24.00
		15	0	22.67	22.65	22.64	24.00
	16QAM	1	0	22.76	22.69	22.76	24.00
		1	7	22.74	22.65	22.67	24.00
		1	14	22.65	22.69	22.80	24.00
		8	0	21.67	21.68	21.73	23.00
		8	4	21.78	21.73	21.66	23.00
		8	7	21.78	21.65	21.75	23.00
		15	0	21.69	21.70	21.61	23.00
	64QAM	1	0	21.75	21.58	21.79	23.00
		1	7	21.79	21.76	21.62	23.00
		1	14	21.66	21.62	21.78	23.00
		8	0	20.81	20.72	20.80	22.00
		8	4	20.75	20.73	20.79	22.00
		8	7	20.72	20.76	20.77	22.00
		15	0	20.64	20.67	20.69	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	23.75	23.64	23.78	25.00
		1	13	23.63	23.75	23.62	25.00
		1	24	23.77	23.59	23.67	25.00
		12	0	22.67	22.63	22.74	24.00
		12	6	22.65	22.74	22.73	24.00
		12	13	22.82	22.71	22.79	24.00
		25	0	22.66	22.61	22.61	24.00
	16QAM	1	0	22.64	22.60	22.61	24.00
		1	13	22.76	22.69	22.75	24.00
		1	24	22.68	22.74	22.65	24.00
		12	0	21.80	21.67	21.61	23.00
		12	6	21.76	21.60	21.66	23.00
		12	13	21.82	21.66	21.72	23.00
		25	0	21.71	21.63	21.63	23.00
	64QAM	1	0	21.68	21.77	21.68	23.00
		1	13	21.74	21.68	21.72	23.00
		1	24	21.75	21.64	21.63	23.00
		12	0	20.68	20.69	20.66	22.00
		12	6	20.75	20.59	20.75	22.00
		12	13	20.82	20.65	20.71	22.00
		25	0	20.81	20.64	20.77	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	23.83	23.87	23.80	25.00
		1	25	23.64	23.57	23.65	25.00
		1	49	23.75	23.68	23.65	25.00



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		25	0	22.83	22.85	22.84	24.00
		25	13	22.75	22.68	22.77	24.00
		25	25	22.67	22.61	22.73	24.00
		50	0	22.63	22.69	22.62	24.00
	16QAM	1	0	22.64	22.77	22.71	24.00
		1	25	22.80	22.60	22.62	24.00
		1	49	22.69	22.70	22.66	24.00
		25	0	21.68	21.68	21.78	23.00
		25	13	21.75	21.73	21.66	23.00
		25	25	21.71	21.62	21.67	23.00
		50	0	21.73	21.68	21.67	23.00
	64QAM	1	0	21.68	21.77	21.75	23.00
		1	25	21.82	21.58	21.79	23.00
		1	49	21.71	21.63	21.65	23.00
		25	0	20.72	20.62	20.66	22.00
		25	13	20.63	20.76	20.62	22.00
		25	25	20.70	20.58	20.67	22.00
		50	0	20.68	20.61	20.63	22.00

Table 18: Measurement Conducted Power of LTE Band 5.

8.1.9 Measurement Conducted Power of LTE Band 7

LTE Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	17.61	17.65	17.46	18.50
		1	13	17.54	17.58	17.41	18.50
		1	24	17.56	17.60	17.37	18.50
		12	0	16.50	16.49	16.39	17.50
		12	6	16.54	16.62	16.35	17.50
		12	13	16.61	16.59	16.45	17.50
		25	0	16.47	16.62	16.51	17.50
	16QAM	1	0	16.55	16.56	16.34	17.50
		1	13	16.51	16.63	16.34	17.50
		1	24	16.61	16.65	16.48	17.50
		12	0	15.47	15.62	15.47	16.50
		12	6	15.46	15.54	15.36	16.50
		12	13	15.63	15.63	15.44	16.50
		25	0	15.43	15.57	15.38	16.50
	64QAM	1	0	15.60	15.57	15.51	16.50
		1	13	15.53	15.62	15.40	16.50
		1	24	15.58	15.60	15.49	16.50
		12	0	14.44	14.64	14.34	15.50
		12	6	14.54	14.57	14.36	15.50
		12	13	14.49	14.50	14.47	15.50
		25	0	14.54	14.63	14.50	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	



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10MHz	QPSK	1	0	17.47	17.50	17.38	18.50
		1	25	17.44	17.58	17.33	18.50
		1	49	17.51	17.56	17.51	18.50
		25	0	16.61	16.59	16.41	17.50
		25	13	16.62	16.60	16.37	17.50
		25	25	16.57	16.56	16.37	17.50
		50	0	16.57	16.57	16.52	17.50
		1	0	16.44	16.47	16.50	17.50
	16QAM	1	25	16.61	16.56	16.50	17.50
		1	49	16.52	16.53	16.40	17.50
		25	0	15.44	15.53	15.36	16.50
		25	13	15.52	15.54	15.43	16.50
		25	25	15.45	15.61	15.32	16.50
		50	0	15.45	15.62	15.36	16.50
		1	0	15.52	15.55	15.35	16.50
		1	25	15.49	15.59	15.42	16.50
	64QAM	1	49	15.43	15.49	15.51	16.50
		25	0	14.45	14.60	14.43	15.50
		25	13	14.63	14.64	14.32	15.50
		25	25	14.57	14.51	14.49	15.50
		50	0	14.61	14.57	14.33	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	17.62	17.53	17.33	18.50
		1	38	17.47	17.59	17.47	18.50
		1	74	17.48	17.52	17.42	18.50
		36	0	16.62	16.55	16.38	17.50
		36	18	16.58	16.55	16.32	17.50
		36	39	16.48	16.59	16.35	17.50
		75	0	16.58	16.51	16.43	17.50
		1	0	16.49	16.64	16.34	17.50
	16QAM	1	38	16.62	16.48	16.50	17.50
		1	74	16.61	16.61	16.51	17.50
		36	0	15.55	15.53	15.50	16.50
		36	18	15.51	15.57	15.50	16.50
		36	39	15.46	15.60	15.36	16.50
		75	0	15.44	15.62	15.32	16.50
		1	0	15.52	15.65	15.44	16.50
		1	38	15.57	15.56	15.51	16.50
	64QAM	1	74	15.59	15.62	15.44	16.50
		36	0	14.60	14.63	14.45	15.50
		36	18	14.54	14.48	14.50	15.50
		36	39	14.55	14.52	14.44	15.50
		75	0	14.45	14.62	14.34	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	17.63	17.65	17.52	18.50
		1	50	17.50	17.57	17.48	18.50
		1	99	17.45	17.60	17.49	18.50



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		50	0	16.71	16.78	16.75	17.50
		50	25	16.47	16.50	16.33	17.50
		50	50	16.56	16.58	16.36	17.50
		100	0	16.62	16.63	16.48	17.50
	16QAM	1	0	16.53	16.54	16.39	17.50
		1	50	16.45	16.56	16.43	17.50
		1	99	16.48	16.65	16.46	17.50
		50	0	15.43	15.51	15.41	16.50
		50	25	15.45	15.56	15.50	16.50
		50	50	15.46	15.55	15.39	16.50
		100	0	15.44	15.64	15.34	16.50
	64QAM	1	0	15.62	15.52	15.48	16.50
		1	50	15.59	15.60	15.52	16.50
		1	99	15.60	15.60	15.41	16.50
		50	0	14.45	14.49	14.48	15.50
		50	25	14.57	14.63	14.47	15.50
		50	50	14.60	14.54	14.40	15.50
		100	0	14.57	14.64	14.36	15.50

Table 19: Measurement Conducted Power of LTE Band 7.

8.1.10 Measurement Conducted Power of LTE Band 12

LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23017	23095	23173	
1.4MHz	QPSK	1	0	24.27	24.42	24.26	25.50
		1	2	24.22	24.25	24.25	25.50
		1	5	24.38	24.38	24.29	25.50
		3	0	24.20	24.36	24.18	25.50
		3	2	24.18	24.16	24.16	25.50
		3	3	24.04	24.15	24.17	25.50
		6	0	23.29	23.33	23.25	24.50
	16QAM	1	0	23.22	23.25	23.34	24.50
		1	2	23.21	23.34	23.31	24.50
		1	5	23.26	23.24	23.41	24.50
		3	0	23.02	23.21	23.12	24.50
		3	2	23.26	23.07	23.18	24.50
		3	3	23.29	23.24	23.36	24.50
		6	0	22.37	22.29	22.31	23.50
	64QAM	1	0	22.35	22.24	22.31	23.50
		1	2	22.36	22.27	22.34	23.50
		1	5	22.26	22.23	22.31	23.50
		3	0	22.02	22.19	22.24	23.50
		3	2	22.10	22.35	22.40	23.50
		3	3	22.07	22.16	22.25	23.50
		6	0	21.25	21.29	21.41	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23025	23095	23165	
3MHz	QPSK	1	0	24.35	24.37	24.21	25.50



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		1	7	24.33	24.39	24.32	25.50
		1	14	24.19	24.24	24.24	25.50
		8	0	23.27	23.41	23.22	24.50
		8	4	23.37	23.38	23.23	24.50
		8	7	23.32	23.33	23.40	24.50
		15	0	23.31	23.25	23.31	24.50
	16QAM	1	0	23.32	23.32	23.27	24.50
		1	7	23.29	23.24	23.22	24.50
		1	14	23.25	23.30	23.37	24.50
		8	0	22.36	22.24	22.40	23.50
		8	4	22.20	22.35	22.24	23.50
		8	7	22.24	22.35	22.26	23.50
	64QAM	15	0	22.30	22.29	22.34	23.50
		1	0	22.27	22.38	22.37	23.50
		1	7	22.32	22.25	22.41	23.50
		1	14	22.34	22.29	22.36	23.50
		8	0	21.38	21.41	21.30	22.50
		8	4	21.27	21.33	21.37	22.50
5MHz	QPSK	8	7	21.20	21.29	21.38	22.50
		15	0	21.38	21.32	21.38	22.50
		1	0	24.26	24.42	24.28	25.50
		1	13	24.27	24.24	24.30	25.50
		1	24	24.33	24.40	24.23	25.50
		12	0	23.29	23.38	23.22	24.50
	16QAM	12	6	23.36	23.42	23.30	24.50
		12	13	23.35	23.32	23.30	24.50
		25	0	23.26	23.39	23.25	24.50
		1	0	23.31	23.25	23.33	24.50
		1	13	23.37	23.32	23.33	24.50
		1	24	23.36	23.34	23.29	24.50
	64QAM	12	0	22.19	22.32	22.21	23.50
		12	6	22.24	22.29	22.40	23.50
		12	13	22.25	22.30	22.25	23.50
		25	0	22.30	22.38	22.30	23.50
		1	0	22.23	22.28	22.36	23.50
		1	13	22.23	22.24	22.38	23.50
10MHz	QPSK	1	24	22.33	22.27	22.22	23.50
		12	0	21.32	21.27	21.21	22.50
		12	6	21.36	21.31	21.41	22.50
		12	13	21.27	21.24	21.39	22.50
		25	0	21.20	21.31	21.32	22.50
		25	13	23.28	23.17	23.34	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
10MHz	QPSK	1	0	24.39	24.43	24.41	25.50
		1	25	24.20	24.11	24.32	25.50
		1	49	24.32	24.25	24.35	25.50
		25	0	23.33	23.43	23.39	24.50
		25	13	23.28	23.17	23.34	24.50



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		25	25	23.30	23.21	23.33	24.50
		50	0	23.36	23.14	23.27	24.50
	16QAM	1	0	23.29	23.18	23.31	24.50
		1	25	23.39	23.22	23.38	24.50
		1	49	23.21	23.23	23.37	24.50
		25	0	22.33	22.24	22.41	23.50
		25	13	22.34	22.18	22.26	23.50
		25	25	22.31	22.20	22.37	23.50
		50	0	22.23	22.19	22.30	23.50
	64QAM	1	0	22.38	22.11	22.32	23.50
		1	25	22.23	22.14	22.29	23.50
		1	49	22.37	22.17	22.34	23.50
		25	0	21.30	21.14	21.34	22.50
		25	13	21.22	21.23	21.35	22.50
		25	25	21.33	21.19	21.33	22.50
		50	0	21.19	21.11	21.29	22.50

Table 20: Measurement Conducted Power of LTE Band 12.

8.1.11 Measurement Conducted Power of LTE Band 13

LTE FDD Band 13				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23205	23230	23255	
5MHz	QPSK	1	0	23.71	23.77	23.75	25.00
		1	13	23.70	23.57	23.59	25.00
		1	24	23.59	23.60	23.60	25.00
		12	0	22.63	22.64	22.67	24.00
		12	6	22.57	22.66	22.70	24.00
		12	13	22.66	22.59	22.57	24.00
		25	0	22.64	22.66	22.56	24.00
	16QAM	1	0	22.59	22.64	22.69	24.00
		1	13	22.57	22.61	22.65	24.00
		1	24	22.66	22.67	22.55	24.00
		12	0	21.64	21.71	21.68	23.00
		12	6	21.61	21.72	21.59	23.00
		12	13	21.61	21.73	21.67	23.00
		25	0	21.56	21.73	21.66	23.00
	64QAM	1	0	21.52	21.64	21.59	23.00
		1	13	21.70	21.60	21.63	23.00
		1	24	21.71	21.68	21.56	23.00
		12	0	20.70	20.69	20.69	22.00
		12	6	20.51	20.58	20.56	22.00
		12	13	20.58	20.59	20.70	22.00
		25	0	20.55	20.69	20.69	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	/	23.78	/	25.00
		1	25	/	23.62	/	25.00
		1	49	/	23.71	/	25.00



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		25	0	/	22.7	/	24.00
		25	13	/	22.58	/	24.00
		25	25	/	22.77	/	24.00
		50	0	/	22.59	/	24.00
	16QAM	1	0	/	22.6	/	24.00
		1	25	/	22.59	/	24.00
		1	49	/	22.66	/	24.00
		25	0	/	21.71	/	23.00
		25	13	/	21.7	/	23.00
		25	25	/	21.68	/	23.00
		50	0	/	21.59	/	23.00
	64QAM	1	0	/	21.74	/	23.00
		1	25	/	21.71	/	23.00
		1	49	/	21.66	/	23.00
		25	0	/	20.70	/	22.00
		25	13	/	20.73	/	22.00
		25	25	/	20.64	/	22.00
		50	0	/	20.69	/	22.00

Table 21: Measurement Conducted Power of LTE Band 13.

8.1.12 Measurement Conducted Power of LTE Band 17

LTE FDD Band 17				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23755	23790	23825	
5MHz	QPSK	1	0	23.79	23.75	23.83	25.00
		1	13	23.86	23.75	23.82	25.00
		1	24	23.80	23.71	23.81	25.00
		12	0	22.79	22.71	22.73	24.00
		12	6	22.78	22.87	22.87	24.00
		12	13	22.77	22.70	22.87	24.00
		25	0	22.80	22.69	22.87	24.00
	16QAM	1	0	22.75	22.84	22.82	24.00
		1	13	22.73	22.81	22.92	24.00
		1	24	22.80	22.77	22.88	24.00
		12	0	21.82	21.69	21.79	23.00
		12	6	21.86	21.86	21.88	23.00
		12	13	21.70	21.83	21.75	23.00
		25	0	21.75	21.81	21.76	23.00
	64QAM	1	0	21.68	21.75	21.79	23.00
		1	13	21.70	21.86	21.74	23.00
		1	24	21.85	21.79	21.90	23.00
		12	0	20.68	20.73	20.80	22.00
		12	6	20.78	20.75	20.76	22.00
		12	13	20.80	20.77	20.87	22.00
		25	0	20.81	20.76	20.79	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23780	23790	23800	
10MHz	QPSK	1	0	23.86	23.87	23.82	25.00



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		1	25	23.85	23.76	23.76	25.00
		1	49	23.69	23.69	23.80	25.00
		25	0	23.03	23.09	23.10	24.00
		25	13	22.77	22.78	22.91	24.00
		25	25	22.70	22.73	22.91	24.00
		50	0	22.70	22.77	22.86	24.00
	16QAM	1	0	22.81	22.75	22.76	24.00
		1	25	22.72	22.84	22.90	24.00
		1	49	22.78	22.73	22.91	24.00
		25	0	21.74	21.72	21.89	23.00
		25	13	21.78	21.68	21.88	23.00
		25	25	21.68	21.68	21.88	23.00
	64QAM	50	0	21.67	21.72	21.86	23.00
		1	0	21.86	21.80	21.79	23.00
		1	25	21.73	21.69	21.87	23.00
		1	49	21.82	21.71	21.73	23.00
		25	0	20.70	20.76	20.88	22.00
		25	13	20.84	20.74	20.81	22.00
		25	25	20.78	20.70	20.79	22.00
		50	0	20.69	20.72	20.83	22.00

Table 22: Measurement Conducted Power of LTE Band 17.

8.1.13 Measurement Conducted Power of LTE Band 41

LTE Band 41 Full power				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	19.09	19.17	19.24	19.1	19.18	20.00
		1	13	19.09	19.07	19.08	19.15	19.14	20.00
		1	24	19.02	19.12	19.15	19.05	19.12	20.00
		12	0	18.06	18.01	18.18	18.1	18.11	19.00
		12	6	18.15	18.14	18.13	18.12	18.11	19.00
		12	13	18.15	18.11	18.06	18.04	18.18	19.00
		25	0	18.17	18.1	18.15	18.2	18.1	19.00
	16QAM	1	0	18.07	18.07	18.15	18.18	18.23	19.00
		1	13	18.02	18.13	18.25	18.2	18.23	19.00
		1	24	18.1	18.01	18.2	18.05	18.06	19.00
		12	0	17.07	17.03	17.09	17.19	17.17	18.00
		12	6	17.12	17.18	17.09	17.13	17.13	18.00
		12	13	17.02	17.18	17.2	17.13	17.22	18.00
		25	0	17.16	17.12	17.23	17.12	17.24	18.00
	64QAM	1	0	17.12	17.13	17.23	17.15	17.22	18.00
		1	13	17.19	17.07	17.18	17.06	17.11	18.00
		1	24	17.21	17.05	17.18	17.22	17.08	18.00
		12	0	16.05	16.06	16.24	16.10	16.12	17.00
		12	6	16.02	16.09	16.07	16.18	16.16	17.00
		12	13	16.01	16.10	16.13	16.07	16.09	17.00
		25	0	16.12	16.13	16.24	16.21	16.13	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
10MHz	QPSK	1	0	19.13	19.02	19.19	19.15	19.11	20.00
		1	25	19.17	19.09	19.09	19.1	19.1	20.00
		1	49	19.05	19.14	19.14	19.18	19.16	20.00
		25	0	18.05	18.06	18.24	18.14	18.16	19.00
		25	13	18.04	18.05	18.16	18.08	18.2	19.00
		25	25	18.06	18.05	18.1	18.08	18.11	19.00
		50	0	18.09	18.01	18.21	18.1	18.23	19.00
	16QAM	1	0	18.1	18.05	18.19	18.17	18.17	19.00
		1	25	18.04	18	18.17	18.05	18.24	19.00
		1	49	18.15	18.05	18.09	18.13	18.17	19.00
		25	0	17.17	17.15	17.07	17.17	17.12	18.00
		25	13	17.05	17.03	17.25	17.03	17.08	18.00
		25	25	17.02	17.02	17.15	17.08	17.24	18.00
		50	0	17.08	17.09	17.14	17.23	17.23	18.00
	64QAM	1	0	17.07	17.17	17.17	17.21	17.12	18.00
		1	25	17.17	17.01	17.23	17.20	17.24	18.00
		1	49	17.01	17.13	17.08	17.09	17.13	18.00
		25	0	16.07	16.15	16.14	16.05	16.16	17.00
		25	13	16.18	15.99	16.09	16.22	16.11	17.00
		25	25	16.13	16.14	16.16	16.17	16.18	17.00
		50	0	16.14	16.08	16.11	16.17	16.24	17.00
15MHz	QPSK	1	0	19.06	19.08	19.25	19.21	19.07	20.00
		1	38	19.06	19.16	19.12	19.16	19.2	20.00
		1	74	19.07	19.04	19.11	19.11	19.13	20.00
		36	0	18.14	18.12	18.09	18.11	18.21	19.00
		36	18	18.12	17.99	18.13	18.04	18.17	19.00
		36	39	18.11	18.12	18.13	18.11	18.08	19.00
		75	0	18.16	18.18	18.08	18.06	18.08	19.00
	16QAM	1	0	18.16	18.09	18.06	18.11	18.25	19.00
		1	38	18.16	18.07	18.25	18.05	18.22	19.00
		1	74	18.17	18.03	18.2	18.23	18.06	19.00
		36	0	17.09	16.99	17.26	17.12	17.2	18.00
		36	18	17.04	17.07	17.16	17.06	17.13	18.00
		36	39	17.19	17.11	17.09	17.05	17.23	18.00
		75	0	17.12	16.98	17.1	17.14	17.08	18.00
	64QAM	1	0	17.20	17.15	17.13	17.23	17.20	18.00
		1	38	17.06	17.02	17.12	17.14	17.22	18.00
		1	74	17.01	17.12	17.20	17.10	17.15	18.00
		36	0	16.13	16.00	16.20	16.23	16.23	17.00
		36	18	16.15	16.06	16.07	16.20	16.11	17.00
		36	39	16.16	16.14	16.14	16.15	16.06	17.00
		75	0	16.14	16.15	16.16	16.18	16.15	17.00
20MHz	QPSK	1	0	19.21	19.18	19.26	19.23	19.25	20.00
		1	50	19.02	19.1	19.2	19.05	19.25	20.00
		1	99	19.2	19.16	19.13	19.1	19.16	20.00



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		50	0	18.37	18.46	18.56	18.53	18.55	19.00
		50	25	18.17	18.14	18.19	18.13	18.22	19.00
		50	50	18.2	18.13	18.1	18.04	18.21	19.00
		100	0	18.13	18.1	18.23	18.21	18.15	19.00
	16QAM	1	0	18.2	18.05	18.18	18.17	18.14	19.00
		1	50	18.1	18.17	18.09	18.12	18.14	19.00
		1	99	18.2	18.02	18.18	18.22	18.12	19.00
		50	0	17.06	17.1	17.18	17.15	17.22	18.00
		50	25	17.13	17.17	17.21	17.08	17.09	18.00
		50	50	17.19	17.12	17.15	17.12	17.09	18.00
		100	0	17.15	17.01	17.09	17.17	17.19	18.00
	64QAM	1	0	17.08	17.04	17.11	17.19	17.25	18.00
		1	50	17.10	17.12	17.11	17.06	17.15	18.00
		1	99	17.04	17.12	17.06	17.08	17.12	18.00
		50	0	16.06	15.99	16.09	16.06	16.16	17.00
		50	25	16.12	15.98	16.09	16.16	16.10	17.00
		50	50	16.06	16.10	16.13	16.17	16.08	17.00
		100	0	16.06	16.16	16.07	16.22	16.18	17.00

Table 23: Measurement Conducted Power of LTE Band 41.

8.1.14 Measurement Conducted Power of LTE Band 66

LTE Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	22.74	22.93	22.85	24.00
		1	2	22.72	22.81	22.77	24.00
		1	5	22.86	22.80	22.80	24.00
		3	0	22.71	22.76	22.67	24.00
		3	1	22.68	22.75	22.82	24.00
		3	3	22.58	22.61	22.78	24.00
		6	0	21.83	21.92	21.81	23.00
	16QAM	1	0	21.85	21.76	21.80	23.00
		1	2	21.82	21.86	21.72	23.00
		1	5	21.87	21.80	21.90	23.00
		3	0	21.66	21.74	21.88	23.00
		3	1	21.72	21.77	21.80	23.00
		3	3	21.75	21.88	21.60	23.00
		6	0	20.74	20.77	20.84	22.00
	64QAM	1	0	20.82	20.90	20.85	22.00
		1	2	20.79	20.78	20.74	22.00
		1	5	20.69	20.87	20.75	22.00
		3	0	20.60	20.83	20.70	22.00
		3	1	20.68	20.70	20.77	22.00
		3	3	20.66	20.80	20.57	22.00
		6	0	19.70	19.80	19.87	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	



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3MHz	QPSK	1	0	22.72	22.75	22.82	24.00
		1	7	22.68	22.85	22.77	24.00
		1	14	22.70	22.91	22.71	24.00
		8	0	21.74	21.91	21.87	23.00
		8	4	21.85	21.88	21.77	23.00
		8	7	21.69	21.78	21.74	23.00
		15	0	21.84	21.81	21.84	23.00
	16QAM	1	0	21.81	21.90	21.74	23.00
		1	7	21.78	21.75	21.91	23.00
		1	14	21.70	21.90	21.88	23.00
		8	0	20.72	20.78	20.72	22.00
		8	4	20.74	20.77	20.77	22.00
		8	7	20.84	20.89	20.73	22.00
		15	0	20.72	20.76	20.86	22.00
	64QAM	1	0	20.76	20.84	20.75	22.00
		1	7	20.81	20.88	20.76	22.00
		1	14	20.84	20.79	20.84	22.00
		8	0	19.83	19.88	19.90	21.00
		8	4	19.88	19.90	19.74	21.00
		8	7	19.83	19.92	19.89	21.00
		15	0	19.72	19.92	19.88	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131997	132322	132647	
5MHz	QPSK	1	0	22.80	22.74	22.90	24.00
		1	13	22.73	22.85	22.83	24.00
		1	24	22.82	22.77	22.75	24.00
		12	0	21.71	21.79	21.77	23.00
		12	6	21.81	21.86	21.86	23.00
		12	13	21.84	21.77	21.77	23.00
		25	0	21.85	21.89	21.71	23.00
	16QAM	1	0	21.75	21.80	21.73	23.00
		1	13	21.85	21.77	21.86	23.00
		1	24	21.75	21.75	21.86	23.00
		12	0	20.71	20.90	20.78	22.00
		12	6	20.86	20.75	20.73	22.00
		12	13	20.75	20.84	20.86	22.00
		25	0	20.76	20.74	20.79	22.00
	64QAM	1	0	20.75	20.77	20.86	22.00
		1	13	20.71	20.83	20.84	22.00
		1	24	20.78	20.80	20.88	22.00
		12	0	19.78	19.84	19.83	21.00
		12	6	19.75	19.86	19.90	21.00
		12	13	19.75	19.84	19.75	21.00
		25	0	19.72	19.78	19.84	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132022	132322	132622	
10MHz	QPSK	1	0	22.87	22.79	22.82	24.00
		1	25	22.74	22.85	22.75	24.00
		1	49	22.77	22.85	22.78	24.00
		25	0	21.88	21.81	21.85	23.00



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		25	13	21.78	21.90	21.88	23.00
		25	25	21.70	21.82	21.75	23.00
		50	0	21.70	21.90	21.77	23.00
	16QAM	1	0	21.80	21.73	21.87	23.00
		1	25	21.83	21.80	21.71	23.00
		1	49	21.78	21.75	21.79	23.00
		25	0	20.68	20.83	20.73	22.00
		25	13	20.82	20.93	20.79	22.00
		25	25	20.74	20.84	20.73	22.00
		50	0	20.88	20.86	20.89	22.00
	64QAM	1	0	20.73	20.88	20.71	22.00
		1	25	20.72	20.81	20.90	22.00
		1	49	20.85	20.87	20.83	22.00
		25	0	19.84	19.84	19.83	21.00
		25	13	19.81	19.76	19.82	21.00
		25	25	19.84	19.82	19.72	21.00
		50	0	19.85	19.92	19.74	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	22.87	22.91	22.82	24.00
		1	38	22.81	22.90	22.79	24.00
		1	74	22.85	22.84	22.90	24.00
		36	0	21.86	21.92	21.83	23.00
		36	18	21.85	21.82	21.90	23.00
		36	39	21.73	21.79	21.77	23.00
		75	0	21.79	21.87	21.81	23.00
	16QAM	1	0	21.80	21.90	21.88	23.00
		1	38	21.73	21.80	21.80	23.00
		1	74	21.70	21.93	21.80	23.00
		36	0	20.83	20.87	20.77	22.00
		36	18	20.72	20.78	20.79	22.00
		36	39	20.76	20.86	20.81	22.00
		75	0	20.84	20.83	20.90	22.00
	64QAM	1	0	20.80	20.87	20.82	22.00
		1	38	20.70	20.92	20.87	22.00
		1	74	20.79	20.87	20.79	22.00
		36	0	19.76	19.74	19.77	21.00
		36	18	19.68	19.89	19.82	21.00
		36	39	19.83	19.89	19.91	21.00
		75	0	19.77	19.81	19.72	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	QPSK	1	0	22.88	22.93	22.91	24.00
		1	50	22.83	22.81	22.86	24.00
		1	99	22.72	22.83	22.90	24.00
		50	0	22.25	22.31	22.28	23.00
		50	25	21.74	21.89	21.76	23.00
		50	50	21.75	21.82	21.86	23.00
		100	0	21.71	21.82	21.78	23.00
	16QAM	1	0	21.80	21.90	21.83	23.00



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		1	50	21.82	21.92	21.81	23.00
		1	99	21.79	21.90	21.76	23.00
		50	0	20.76	20.84	20.89	22.00
		50	25	20.73	20.75	20.77	22.00
		50	50	20.75	20.80	20.71	22.00
		100	0	20.79	20.92	20.80	22.00
	64QAM	1	0	20.81	20.88	20.86	22.00
		1	50	20.87	20.75	20.85	22.00
		1	99	20.69	20.91	20.82	22.00
		50	0	19.86	19.74	19.76	21.00
		50	25	19.70	19.85	19.87	21.00
		50	50	19.78	19.79	19.77	21.00
		100	0	19.87	19.81	19.71	21.00

Table 24: Measurement Conducted Power of LTE Band 66.

8.1.15 Measurement Conducted Power of LTE Band 71

LTE Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				133147	133247	133447	
5MHz	QPSK	1	0	23.53	23.64	23.39	25.00
		1	13	23.45	23.46	23.50	25.00
		1	24	23.57	23.57	23.47	25.00
		12	0	22.45	22.57	22.49	24.00
		12	6	22.44	22.65	22.39	24.00
		12	13	22.49	22.65	22.37	24.00
		25	0	22.54	22.52	22.37	24.00
	16QAM	1	0	22.60	22.50	22.44	24.00
		1	13	22.44	22.53	22.51	24.00
		1	24	22.44	22.46	22.41	24.00
		12	0	21.55	21.46	21.49	23.00
		12	6	21.44	21.46	21.48	23.00
		12	13	21.61	21.46	21.34	23.00
		25	0	21.62	21.46	21.44	23.00
	64QAM	1	0	21.61	21.55	21.38	23.00
		1	13	21.54	21.61	21.35	23.00
		1	24	21.54	21.46	21.35	23.00
		12	0	20.43	20.56	20.47	22.00
		12	6	20.61	20.54	20.35	22.00
		12	13	20.57	20.54	20.52	22.00
		25	0	20.61	20.61	20.47	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				133172	133272	133422	
10MHz	QPSK	1	0	23.58	23.52	23.41	25.00
		1	25	23.55	23.63	23.50	25.00
		1	49	23.45	23.54	23.54	25.00
		25	0	22.59	22.64	22.53	24.00
		25	13	22.51	22.54	22.48	24.00
		25	25	22.57	22.46	22.41	24.00



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	16QAM	50	0	22.49	22.64	22.46	24.00
		1	0	22.47	22.63	22.42	24.00
		1	25	22.59	22.55	22.34	24.00
		1	49	22.57	22.62	22.36	24.00
		25	0	21.57	21.53	21.40	23.00
		25	13	21.59	21.53	21.48	23.00
		25	25	21.48	21.45	21.36	23.00
		50	0	21.58	21.59	21.49	23.00
	64QAM	1	0	21.46	21.57	21.45	23.00
		1	25	21.45	21.55	21.50	23.00
		1	49	21.49	21.57	21.52	23.00
		25	0	20.62	20.58	20.54	22.00
		25	13	20.50	20.60	20.53	22.00
		25	25	20.44	20.57	20.39	22.00
		50	0	20.54	20.57	20.50	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 133197	Channel 133297	Channel 133397	Tune up
15MHz	QPSK	1	0	23.44	23.60	23.35	25.00
		1	38	23.57	23.54	23.46	25.00
		1	74	23.45	23.46	23.34	25.00
		36	0	22.55	22.65	22.43	24.00
		36	18	22.57	22.62	22.50	24.00
		36	39	22.44	22.63	22.51	24.00
		75	0	22.62	22.64	22.44	24.00
	16QAM	1	0	22.46	22.53	22.40	24.00
		1	38	22.59	22.64	22.44	24.00
		1	74	22.46	22.62	22.53	24.00
		36	0	21.58	21.58	21.40	23.00
		36	18	21.55	21.56	21.43	23.00
		36	39	21.49	21.54	21.53	23.00
		75	0	21.53	21.59	21.41	23.00
	64QAM	1	0	21.61	21.54	21.41	23.00
		1	38	21.61	21.61	21.34	23.00
		1	74	21.56	21.57	21.52	23.00
		36	0	20.46	20.45	20.51	22.00
		36	18	20.59	20.52	20.46	22.00
		36	39	20.44	20.55	20.48	22.00
		75	0	20.49	20.58	20.49	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 133222	Channel 133322	Channel 133372	Tune up
20MHz	QPSK	1	0	23.63	23.65	23.54	25.00
		1	50	23.58	23.53	23.40	25.00
		1	99	23.53	23.64	23.52	25.00
		50	0	22.88	22.91	22.89	24.00
		50	25	22.51	22.46	22.39	24.00
		50	50	22.53	22.63	22.45	24.00
		100	0	22.60	22.61	22.39	24.00
	16QAM	1	0	22.60	22.56	22.39	24.00
		1	50	22.45	22.53	22.53	24.00
		1	99	22.61	22.64	22.46	24.00



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		50	0	21.48	21.55	21.35	23.00
		50	25	21.60	21.47	21.44	23.00
		50	50	21.58	21.58	21.35	23.00
		100	0	21.57	21.52	21.43	23.00
	64QAM	1	0	21.46	21.52	21.47	23.00
		1	50	21.44	21.47	21.40	23.00
		1	99	21.56	21.54	21.43	23.00
		50	0	20.54	20.63	20.40	22.00
		50	25	20.62	20.61	20.40	22.00
		50	50	20.45	20.64	20.52	22.00
		100	0	20.59	20.48	20.49	22.00

Table 25: Measurement Conducted Power of LTE Band 71.

8.1.16 Measurement Conducted Power of WIFI2.4G

Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	14.02	15.00
	6	2437		14.15	15.00
	11	2462		14.01	15.00
802.11g	1	2412	6	14.08	15.00
	6	2437		14.03	15.00
	11	2462		14.09	15.00
802.11n HT20	1	2412	6.5	14.09	15.00
	6	2437		14.12	15.00
	11	2462		14.13	15.00

Table 26: Measurement Conducted Power of WIFI2.4G.

8.1.17 Measurement Conducted Power of WIFI5G

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	14.05	15.00
		40	5200		14.17	15.00
		44	5220		14.06	15.00
		48	5240		14.26	15.00
	U-NII-2A	52	5260		14.16	15.00
		56	5280		13.46	15.00
		60	5300		13.36	15.00
		64	5320		13.35	15.00
	U-NII-2C	100	5500		13.65	14.50
		104	5520		13.45	14.50
		108	5540		13.60	14.50
		112	5560		13.43	14.50
		116	5580		13.61	14.50
		120	5600		13.65	14.50
		124	5620		13.56	14.50



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		128	5640		13.65	14.50
		132	5660		13.73	14.50
		136	5680		13.80	14.50
		140	5700		13.80	14.50
	U-NII-3	149	5745		15.81	16.50
		153	5765		15.67	16.50
		157	5785		15.65	16.50
		161	5805		15.53	16.50
		165	5825		15.78	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	13.95	15.00
		40	5200		13.88	15.00
		44	5220		13.77	15.00
		48	5240		13.75	15.00
	U-NII-2A	52	5260		13.99	15.00
		56	5280		13.65	15.00
		60	5300		13.82	15.00
		64	5320		13.40	15.00
	U-NII-2C	100	5500		13.58	14.50
		104	5520		13.31	14.50
		108	5540		13.52	14.50
		112	5560		13.51	14.50
		116	5580		12.95	14.50
		120	5600		12.99	14.50
		124	5620		13.06	14.50
		128	5640		13.18	14.50
		132	5660		13.06	14.50
		136	5680		13.04	14.50
		140	5700		13.38	14.50
	U-NII-3	149	5745		15.57	16.50
		153	5765		15.40	16.50
		157	5785		15.58	16.50
		161	5805		15.43	16.50
		165	5825		15.36	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	13.99	15.00
		46	5230		13.24	15.00
	U-NII-2A	54	5270		13.77	15.00
		62	5310		13.51	15.00
	U-NII-2C	102	5510		13.51	14.50
		110	5550		13.78	14.50
		118	5590		13.31	14.50
		126	5630		13.26	14.50
		134	5670		13.65	14.50



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	U-NII-3	151	5755		15.42	16.50
		159	5795		15.56	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	13.90	15.00
		40	5200		13.92	15.00
		44	5220		13.86	15.00
		48	5240		13.88	15.00
	U-NII-2A	52	5260		13.98	15.00
		56	5280		13.71	15.00
		60	5300		13.76	15.00
		64	5320		13.77	15.00
	U-NII-2C	100	5500		13.48	14.50
		104	5520		13.44	14.50
		108	5540		13.53	14.50
		112	5560		13.51	14.50
		116	5580		13.06	14.50
		120	5600		13.14	14.50
		124	5620		13.28	14.50
		128	5640		13.25	14.50
		132	5660		13.33	14.50
		136	5680		13.20	14.50
		140	5700		13.48	14.50
		149	5745		15.59	16.50
	U-NII-3	153	5765		15.53	16.50
		157	5785		15.44	16.50
		161	5805		15.38	16.50
		165	5825		15.47	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-40	U-NII-1	38	5190	MCS0	14.05	15.00
		46	5230		13.46	15.00
	U-NII-2A	54	5270		13.69	15.00
		62	5310		13.66	15.00
	U-NII-2C	102	5510		13.59	14.50
		110	5550		13.80	14.50
		118	5590		13.35	14.50
		126	5630		13.42	14.50
		134	5670		13.54	14.50
		151	5755		15.40	16.50
	U-NII-3	159	5795		15.67	16.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	13.77	15.00
	U-NII-2A	58	5290		14.16	15.00
	U-NII-2C	106	5530		13.47	14.50
		122	5610		13.80	14.50



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	U-NII-3	155	5775		15.38	16.50
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Table 27: Measurement Conducted Power of WIFI5G.

8.1.18 Measurement Conducted Power of Bluetooth

BT		Average Conducted Power(dBm)			
Band	Channel	0	39	78	Tune up
BT	GFSK	7.34	8.16	7.03	9.00
	π/4DQPSK	4.59	5.46	4.16	6.00
	8DPSK	4.63	5.51	4.32	6.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	-4.87	-3.62	-4.59	-3.00
Band	Channel	1	19	38	Tune up
BLE 2M	GFSK	-4.98	-3.68	-4.32	-3.00

Table 28: Measurement Conducted Power of Bluetooth.



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8.2 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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8.2.1 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 2TS	190/836.6	1:4.15	0.447	0.03	31.41	32.50	1.285	0.575	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.339	-0.02	31.41	32.50	1.285	0.436	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.392	0.06	31.41	32.50	1.285	0.504	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.282	0.17	31.41	32.50	1.285	0.362	22.4
Body worn Test data(Separate 15mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.402	0.14	31.41	32.50	1.285	0.517	22.4
Back side	GPRS 2TS	190/836.6	1:4.15	0.464	-0.01	31.41	32.50	1.285	0.596	22.4
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.413	0.15	31.41	32.50	1.285	0.531	22.4
Back side	GPRS 2TS	190/836.6	1:4.15	0.666	0.03	31.41	32.50	1.285	0.856	22.4
Back side	GPRS 2TS	128/824.2	1:4.15	0.536	-0.11	31.36	32.50	1.300	0.697	22.4
Back side	GPRS 2TS	251/848.8	1:4.15	0.571	0.02	31.27	32.50	1.327	0.758	22.4
Left side	GPRS 2TS	190/836.6	1:4.15	0.126	0.03	31.41	32.50	1.285	0.162	22.4
Right side	GPRS 2TS	190/836.6	1:4.15	0.262	-0.12	31.41	32.50	1.285	0.337	22.4
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.283	-0.08	31.41	32.50	1.285	0.364	22.4

Table 29: SAR of GSM850 for Head and Body.

8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 3 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 2TS	661/1880	1:4.15	0.930	-0.12	26.15	27.00	1.216	1.131	22.5
Left cheek	GPRS 2TS	512/1850.2	1:4.15	0.843	-0.11	26.15	27.00	1.216	1.025	22.5
Left cheek	GPRS 2TS	810/1909.8	1:4.15	1.010	-0.02	26.15	27.00	1.216	1.228	22.5
Left cheek-repeated	GPRS 2TS	810/1909.8	1:4.15	0.997	0.03	26.15	27.00	1.216	1.213	22.5
Left tilted	GPRS 2TS	661/1880	1:4.15	0.606	0.06	26.15	27.00	1.216	0.737	22.5
Right cheek	GPRS 2TS	661/1880	1:4.15	0.402	0.02	26.15	27.00	1.216	0.489	22.5
Right tilted	GPRS 2TS	661/1880	1:4.15	0.276	0.11	26.15	27.00	1.216	0.336	22.5
Body worn Test data(Separate 15mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.109	-0.07	26.15	27.00	1.216	0.133	22.5
Back side	GPRS 2TS	661/1880	1:4.15	0.200	0.02	26.15	27.00	1.216	0.243	22.5
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.318	0.05	26.15	27.00	1.216	0.387	22.5
Back side	GPRS 2TS	661/1880	1:4.15	0.672	-0.09	26.15	27.00	1.216	0.817	22.5
Back side	GPRS 2TS	512/1850.2	1:4.15	0.587	0.01	26.15	27.00	1.216	0.714	22.5
Back side	GPRS 2TS	810/1909.8	1:4.15	0.741	-0.01	26.15	27.00	1.216	0.901	22.5
Right side	GPRS 2TS	661/1880	1:4.15	0.416	0.05	26.15	27.00	1.216	0.506	22.5
Top side	GPRS 2TS	661/1880	1:4.15	0.436	-0.14	26.15	27.00	1.216	0.530	22.5

Table 30: SAR of GSM1900 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	810/1909.8	1.010	0.997	1.013039117	N/A	N/A

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



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- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record										
Ant 3 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	0.871	-0.12	20.08	21.00	1.236	1.077	22.5
Left cheek-repeated	RMC	9400/1880	1:1	0.868	0.03	20.08	21.00	1.236	1.073	22.5
Left cheek	RMC	9262/1852.4	1:1	0.855	-0.11	20.08	21.00	1.236	1.057	22.5
Left cheek	RMC	9538/1907.6	1:1	0.862	-0.12	20.08	21.00	1.236	1.065	22.5
Left tilted	RMC	9400/1880	1:1	0.604	0.13	20.08	21.00	1.236	0.747	22.5
Right cheek	RMC	9400/1880	1:1	0.565	0.19	20.08	21.00	1.236	0.698	22.5
Right tilted	RMC	9400/1880	1:1	0.367	-0.13	20.08	21.00	1.236	0.454	22.5
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.133	0.18	20.08	21.00	1.236	0.164	22.5
Back side	RMC	9400/1880	1:1	0.269	0.07	20.08	21.00	1.236	0.332	22.5
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.278	-0.05	20.08	21.00	1.236	0.344	22.5
Back side	RMC	9400/1880	1:1	0.596	0.04	20.08	21.00	1.236	0.737	22.5
Right side	RMC	9400/1880	1:1	0.412	-0.12	20.08	21.00	1.236	0.509	22.5
Top side	RMC	9400/1880	1:1	0.466	-0.15	20.08	21.00	1.236	0.576	22.5

Table 31: SAR of WCDMA Band II for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	9400/1880	0.871	0.868	1.003456221	N/A	N/A

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

- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.4 SAR Result of WCDMA Band IV

W B4 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	RMC	1412/1732.4	1:1	0.177	0.07	22.06	23.00	1.242	0.220	22.3
Left tilted	RMC	1412/1732.4	1:1	0.048	-0.07	22.06	23.00	1.242	0.060	22.3
Right cheek	RMC	1412/1732.4	1:1	0.165	0.1	22.06	23.00	1.242	0.205	22.3
Right tilted	RMC	1412/1732.4	1:1	0.095	0.13	22.06	23.00	1.242	0.118	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.251	-0.04	22.06	23.00	1.242	0.312	22.3
Back side	RMC	1412/1732.4	1:1	0.301	-0.15	22.06	23.00	1.242	0.374	22.3



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Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.477	0.16	22.06	23.00	1.242	0.592	22.3
Back side	RMC	1412/1732.4	1:1	0.599	-0.09	22.06	23.00	1.242	0.744	22.3
Left side	RMC	1412/1732.4	1:1	0.216	0.01	22.06	23.00	1.242	0.268	22.3
Right side	RMC	1412/1732.4	1:1	0.299	0.07	22.06	23.00	1.242	0.371	22.3
Bottom side	RMC	1412/1732.4	1:1	0.559	-0.07	22.06	23.00	1.242	0.694	22.3

Table 32: SAR of WCDMA Band IV for Head and Body.

8.2.5 SAR Result of WCDMA Band V

W B4 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.(℃)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.221	0.06	22.04	23.00	1.247	0.276	22.4
Left tilted	RMC	4182/836.4	1:1	0.145	-0.14	22.04	23.00	1.247	0.181	22.4
Right cheek	RMC	4182/836.4	1:1	0.164	0.18	22.04	23.00	1.247	0.205	22.4
Right tilted	RMC	4182/836.4	1:1	0.109	-0.13	22.04	23.00	1.247	0.136	22.4
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.171	0.14	22.04	23.00	1.247	0.213	22.4
Back side	RMC	4182/836.4	1:1	0.212	-0.03	22.04	23.00	1.247	0.264	22.4
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.162	0.03	22.04	23.00	1.247	0.202	22.4
Back side	RMC	4182/836.4	1:1	0.307	-0.03	22.04	23.00	1.247	0.383	22.4
Left side	RMC	4182/836.4	1:1	0.106	0.02	22.04	23.00	1.247	0.132	22.4
Right side	RMC	4182/836.4	1:1	0.119	0.08	22.04	23.00	1.247	0.148	22.4
Bottom side	RMC	4182/836.4	1:1	0.115	0.03	22.04	23.00	1.247	0.143	22.4

Table 33: SAR of WCDMA Band V for Head and Body.

8.2.6 SAR Result of LTE Band 2

LTE Band 2 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.(℃)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.241	0.11	24.21	25.00	1.199	0.289	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.218	0.05	24.21	25.00	1.199	0.261	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.410	0.09	24.21	25.00	1.199	0.492	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.245	-0.07	24.21	25.00	1.199	0.294	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.202	-0.11	23.23	24.00	1.194	0.241	22.5
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.175	-0.19	23.23	24.00	1.194	0.209	22.5
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.335	0.03	23.23	24.00	1.194	0.400	22.5
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.193	-0.17	23.23	24.00	1.194	0.230	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.459	0.14	24.21	25.00	1.199	0.551	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.541	0.02	24.21	25.00	1.199	0.649	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.371	0.16	23.23	24.00	1.194	0.443	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.442	-0.17	23.23	24.00	1.194	0.528	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.720	0.04	24.21	25.00	1.199	0.864	22.5



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Front side	20	QPSK 1_0	18700/1860	1:1	0.761	-0.01	24.19	25.00	1.205	0.917	22.5
Front side	20	QPSK 1_0	19100/1900	1:1	0.627	0.04	24.06	25.00	1.242	0.779	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.799	0.16	24.21	25.00	1.199	0.958	22.5
Back side	20	QPSK 1_0	18700/1860	1:1	0.861	-0.01	24.19	25.00	1.205	1.038	22.5
Back side-repeated	20	QPSK 1_0	18700/1860	1:1	0.855	0.04	24.19	25.00	1.205	1.030	22.5
Back side	20	QPSK 1_0	19100/1900	1:1	0.747	-0.06	24.06	25.00	1.242	0.928	22.5
Left side	20	QPSK 1_0	18900/1880	1:1	0.359	0.04	24.21	25.00	1.199	0.431	22.5
Right side	20	QPSK 1_0	18900/1880	1:1	0.484	0.03	24.21	25.00	1.199	0.581	22.5
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.659	-0.07	24.21	25.00	1.199	0.790	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.585	-0.01	23.23	24.00	1.194	0.698	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.674	0.19	23.23	24.00	1.194	0.805	22.5
Back side	20	QPSK 50_0	18700/1860	1:1	0.735	-0.04	23.22	24.00	1.197	0.880	22.5
Back side	20	QPSK 50_0	19100/1900	1:1	0.620	0.15	23.16	24.00	1.213	0.752	22.5
Left side	20	QPSK 50_0	18900/1880	1:1	0.332	0.02	23.23	24.00	1.194	0.396	22.5
Right side	20	QPSK 50_0	18900/1880	1:1	0.437	0.01	23.23	24.00	1.194	0.522	22.5
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.613	0.04	23.23	24.00	1.194	0.732	22.5
Hotspot Test data(Separate 10mm 100%RB)											
Front side	20	QPSK 100_0	18700/1860	1:1	0.553	0.05	22.03	23.00	1.250	0.691	22.5
Back side	20	QPSK 100_0	18700/1860	1:1	0.769	-0.16	22.03	23.00	1.250	0.961	22.5

Table 34: SAR of LTE Band 2 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	18700/1860	0.861	0.855	1.007017544	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.7 SAR Result of LTE Band 5

LTE Band 5 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	20525/836.5	1:1	0.353	0.16	23.87	25.00	1.297	0.458	22.4
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.194	0.06	23.87	25.00	1.297	0.252	22.4
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.201	-0.05	23.87	25.00	1.297	0.261	22.4
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.160	-0.19	23.87	25.00	1.297	0.208	22.4
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.295	0.01	22.85	24.00	1.303	0.384	22.4
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.147	-0.12	22.85	24.00	1.303	0.192	22.4
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.186	0.10	22.85	24.00	1.303	0.242	22.4
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.133	-0.06	22.85	24.00	1.303	0.173	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.240	-0.01	23.87	25.00	1.297	0.311	22.4
Back side	10	QPSK 1_0	20525/836.5	1:1	0.295	0.02	23.87	25.00	1.297	0.383	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.204	-0.12	22.85	24.00	1.303	0.266	22.4
Back side	10	QPSK 25_0	20525/836.5	1:1	0.240	0.19	22.85	24.00	1.303	0.313	22.4



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Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.051	-0.11	23.87	25.00	1.297	0.066	22.4
Back side	10	QPSK 1_0	20525/836.5	1:1	0.091	0.12	23.87	25.00	1.297	0.118	22.4
Left side	10	QPSK 1_0	20525/836.5	1:1	0.116	0.02	23.87	25.00	1.297	0.150	22.4
Right side	10	QPSK 1_0	20525/836.5	1:1	0.147	0.05	23.87	25.00	1.297	0.191	22.4
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.189	-0.05	23.87	25.00	1.297	0.245	22.4
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.044	0.09	22.85	24.00	1.303	0.057	22.4
Back side	10	QPSK 25_0	20525/836.5	1:1	0.076	0.12	22.85	24.00	1.303	0.099	22.4
Left side	10	QPSK 25_0	20525/836.5	1:1	0.102	0.01	22.85	24.00	1.303	0.133	22.4
Right side	10	QPSK 25_0	20525/836.5	1:1	0.122	-0.03	22.85	24.00	1.303	0.159	22.4
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.162	0.03	22.85	24.00	1.303	0.211	22.4

Table 35: SAR of LTE Band 5 for Head and Body.

8.2.8 SAR Result of LTE Band 7

LTE Band 7 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.(℃)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.727	0.13	17.65	18.50	1.216	0.884	22.2
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.647	0.07	17.63	18.50	1.222	0.791	22.2
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.692	-0.10	17.52	18.50	1.253	0.867	22.2
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.846	-0.09	17.65	18.50	1.216	1.029	22.2
Left tilted-repeated	20	QPSK 1_0	21100/2535	1:1	0.839	0.01	17.65	18.50	1.216	1.020	22.2
Left tilted	20	QPSK 1_0	20850/2510	1:1	0.801	0.02	17.63	18.50	1.222	0.979	22.2
Left tilted	20	QPSK 1_0	21350/2560	1:1	0.806	0.15	17.52	18.50	1.253	1.010	22.2
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.651	0.05	17.65	18.50	1.216	0.792	22.2
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.766	0.17	17.65	18.50	1.216	0.932	22.2
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.721	0.09	17.63	18.50	1.222	0.881	22.2
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.744	0.03	17.52	18.50	1.253	0.932	22.2
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.579	-0.05	16.78	17.50	1.180	0.683	22.2
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.695	-0.11	16.78	17.50	1.180	0.820	22.2
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.679	-0.02	16.71	17.50	1.199	0.814	22.2
Left tilted	20	QPSK 50_0	21350/2560	1:1	0.695	-0.04	16.75	17.50	1.189	0.826	22.2
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.573	-0.05	16.78	17.50	1.180	0.676	22.2
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.637	0.06	16.78	17.50	1.180	0.752	22.2
Head Test Data(100%RB)											
Left cheek	20	QPSK 100_0	21100/2535	1:1	0.543	0.01	16.63	17.50	1.222	0.663	22.2
Left tilted	20	QPSK 100_0	21100/2535	1:1	0.698	-0.18	16.63	17.50	1.222	0.853	22.2
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.621	0.05	16.63	17.50	1.222	0.759	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.109	0.09	17.65	18.50	1.216	0.133	22.2
Back side	20	QPSK 1_0	21100/2535	1:1	0.293	-0.16	17.65	18.50	1.216	0.356	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.089	-0.19	16.78	17.50	1.180	0.105	22.2
Back side	20	QPSK 50_0	21100/2535	1:1	0.239	0.04	16.78	17.50	1.180	0.282	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.171	0.14	17.65	18.50	1.216	0.208	22.2
Back side	20	QPSK 1_0	21100/2535	1:1	0.614	-0.01	17.65	18.50	1.216	0.747	22.2
Right side	20	QPSK 1_0	21100/2535	1:1	0.431	0.03	17.65	18.50	1.216	0.524	22.2
Top side	20	QPSK 1_0	21100/2535	1:1	0.540	0.01	17.65	18.50	1.216	0.657	22.2



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Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.152	0.15	16.78	17.50	1.180	0.179	22.2
Back side	20	QPSK 50_0	21100/2535	1:1	0.521	0.02	16.78	17.50	1.180	0.615	22.2
Right side	20	QPSK 50_0	21100/2535	1:1	0.395	-0.01	16.78	17.50	1.180	0.466	22.2
Top side	20	QPSK 50_0	21100/2535	1:1	0.455	0.07	16.78	17.50	1.180	0.537	22.2

Table 36: SAR of LTE Band 7 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	21100/2535	0.846	0.839	1.008343266	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.9 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	0.241	0.04	24.43	25.50	1.279	0.308	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.119	-0.05	24.43	25.50	1.279	0.152	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.159	0.05	24.43	25.50	1.279	0.203	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.110	-0.09	24.43	25.50	1.279	0.141	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.168	0.12	23.43	24.50	1.279	0.215	22.3
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.088	-0.18	23.43	24.50	1.279	0.113	22.3
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.143	0.09	23.43	24.50	1.279	0.183	22.3
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.103	-0.04	23.43	24.50	1.279	0.132	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.274	0.02	24.43	25.50	1.279	0.351	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.396	-0.06	24.43	25.50	1.279	0.507	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.243	0.12	23.43	24.50	1.279	0.311	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.335	-0.05	23.43	24.50	1.279	0.429	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.251	0.17	24.43	25.50	1.279	0.321	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.378	0.03	24.43	25.50	1.279	0.484	22.3
Left side	10	QPSK 1_0	23095/707.5	1:1	0.166	0.04	24.43	25.50	1.279	0.212	22.3
Right side	10	QPSK 1_0	23095/707.5	1:1	0.228	-0.06	24.43	25.50	1.279	0.292	22.3
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.005	0.18	24.43	25.50	1.279	0.006	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.206	-0.15	23.43	24.50	1.279	0.264	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.266	0.09	23.43	24.50	1.279	0.340	22.3
Left side	10	QPSK 25_0	23095/707.5	1:1	0.151	0.04	23.43	24.50	1.279	0.193	22.3
Right side	10	QPSK 25_0	23095/707.5	1:1	0.201	0.06	23.43	24.50	1.279	0.257	22.3
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.003	0.07	23.43	24.50	1.279	0.004	22.3

Table 37: SAR of LTE Band 12 for Head and Body.



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8.2.10 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	0.222	0.04	23.78	25.00	1.324	0.294	22.3
Left tilted	10	QPSK 1_0	23230/782	1:1	0.122	-0.02	23.78	25.00	1.324	0.162	22.3
Right cheek	10	QPSK 1_0	23230/782	1:1	0.176	-0.06	23.78	25.00	1.324	0.233	22.3
Right tilted	10	QPSK 1_0	23230/782	1:1	0.136	0.18	23.78	25.00	1.324	0.180	22.3
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.185	0.11	22.70	24.00	1.349	0.250	22.3
Left tilted	10	QPSK 25_0	23230/782	1:1	0.107	-0.17	22.70	24.00	1.349	0.144	22.3
Right cheek	10	QPSK 25_0	23230/782	1:1	0.147	0.18	22.70	24.00	1.349	0.198	22.3
Right tilted	10	QPSK 25_0	23230/782	1:1	0.115	-0.06	22.70	24.00	1.349	0.155	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.211	-0.04	23.78	25.00	1.324	0.279	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.290	-0.13	23.78	25.00	1.324	0.384	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.188	0.05	22.70	24.00	1.349	0.254	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.242	0.09	22.70	24.00	1.349	0.326	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.214	0.02	23.78	25.00	1.324	0.283	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.321	0.12	23.78	25.00	1.324	0.425	22.3
Left side	10	QPSK 1_0	23230/782	1:1	0.132	0.04	23.78	25.00	1.324	0.175	22.3
Right side	10	QPSK 1_0	23230/782	1:1	0.160	0.14	23.78	25.00	1.324	0.212	22.3
Bottom side	10	QPSK 1_0	23230/782	1:1	0.057	-0.01	23.78	25.00	1.324	0.075	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.172	0.04	22.70	24.00	1.349	0.232	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.240	0.01	22.70	24.00	1.349	0.324	22.3
Left side	10	QPSK 25_0	23230/782	1:1	0.115	-0.07	22.70	24.00	1.349	0.155	22.3
Right side	10	QPSK 25_0	23230/782	1:1	0.135	0.14	22.70	24.00	1.349	0.182	22.3
Bottom side	10	QPSK 25_0	23230/782	1:1	0.051	0.05	22.70	24.00	1.349	0.069	22.3

8.2.11 SAR Result of LTE Band 41

LTE Band 41 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	40620/2593	1:1.58	0.494	0.08	19.26	20.00	1.186	0.586	22.2
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.678	-0.16	19.26	20.00	1.186	0.804	22.2
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.710	-0.08	19.21	20.00	1.199	0.852	22.2
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.741	0.04	19.18	20.00	1.208	0.895	22.2
Left tilted_UL 41C	20+20	QPSK 1_0	40185+39987/2549.5+2529.7	1:1.58	0.732	0.02	19.16	20.00	1.213	0.888	22.2
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.602	0.12	19.23	20.00	1.194	0.719	22.2
Left tilted	20	QPSK 1_0	41490/2680	1:1.58	0.525	-0.02	19.25	20.00	1.189	0.624	22.2
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.597	-0.12	19.26	20.00	1.186	0.708	22.2
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.642	0.03	19.26	20.00	1.186	0.761	22.2
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.472	-0.01	18.56	19.00	1.107	0.522	22.2



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Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.561	-0.14	18.56	19.00	1.107	0.621	22.2
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.476	-0.06	18.56	19.00	1.107	0.527	22.2
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.552	-0.05	18.56	19.00	1.107	0.611	22.2
Head Test Data(100%RB)											
Left tilted	20	QPSK 100_0	40185/2549.5	1:1.58	0.611	0.11	18.23	19.00	1.194	0.730	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.095	0.04	19.26	20.00	1.186	0.113	22.2
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.241	0.01	19.26	20.00	1.186	0.286	22.2
Back side_UL 41C	20+20	QPSK 1_0	40620+40422/2593+2573.2	1:1.58	0.233	-0.02	19.22	20.00	1.197	0.279	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.076	0.02	18.56	19.00	1.107	0.084	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.201	-0.16	18.56	19.00	1.107	0.222	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.169	0.04	19.26	20.00	1.186	0.200	22.2
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.536	0.02	19.26	20.00	1.186	0.636	22.2
Back side_UL 41C	20+20	QPSK 1_0	40620+40422/2593+2573.2	1:1.58	0.516	0.07	19.22	20.00	1.197	0.618	22.2
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.362	-0.01	19.26	20.00	1.186	0.429	22.2
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.471	-0.05	19.26	20.00	1.186	0.558	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.147	-0.07	18.56	19.00	1.107	0.163	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.439	-0.09	18.56	19.00	1.107	0.486	22.2
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.314	0.08	18.56	19.00	1.107	0.347	22.2
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.390	-0.11	18.56	19.00	1.107	0.432	22.2

Table 38: SAR of LTE Band 41 for Head and Body.

8.2.12 SAR Result of LTE Band 66

LTE Band 66 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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.317	0.11	22.93	24.00	1.279	0.406	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.107	0.11	22.93	24.00	1.279	0.137	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.346	-0.03	22.93	24.00	1.279	0.443	22.3
Right cheek_UL 66B	15+5	QPSK 1_0	132322+132229/1745+1735.7	1:1	0.315	0.04	22.79	24.00	1.321	0.416	22.3
Right cheek_UL 66C	20+20	QPSK 1_0	132322+132124/1745+1725.2	1:1	0.325	-0.01	22.89	24.00	1.291	0.420	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.145	0.16	22.93	24.00	1.279	0.186	22.3
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.321	-0.11	22.31	23.00	1.172	0.376	22.3
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.107	0.03	22.31	23.00	1.172	0.125	22.3
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.316	0.13	22.31	23.00	1.172	0.370	22.3
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.140	-0.13	22.31	23.00	1.172	0.164	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.390	0.00	22.93	24.00	1.279	0.499	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.408	-0.04	22.93	24.00	1.279	0.522	22.3
Back side_UL 66B	15+5	QPSK 1_0	132322+132229/1745+1735.7	1:1	0.355	-0.11	22.79	24.00	1.321	0.469	22.3
Back side_UL 66C	20+20	QPSK 1_0	132322+132124/1745+1725.2	1:1	0.379	0.02	22.89	24.00	1.291	0.489	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.361	-0.06	22.31	23.00	1.172	0.423	22.3



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Back side	20	QPSK 50_0	132322/1745	1:1	0.399	0.14	22.31	23.00	1.172	0.468	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.625	0.00	22.93	24.00	1.279	0.800	22.3
Front side	20	QPSK 1_0	132072/1720	1:1	0.608	0.08	22.88	24.00	1.294	0.787	22.3
Front side	20	QPSK 1_0	132572/1770	1:1	0.688	-0.12	22.91	24.00	1.285	0.884	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.821	0.17	22.93	24.00	1.279	1.050	22.3
Back side-repeated	20	QPSK 1_0	132322/1745	1:1	0.816	0.01	22.93	24.00	1.279	1.044	22.3
Back side_UL 66B	15+5	QPSK 1_0	132322+132229/1745+1735.7	1:1	0.765	0.02	22.79	24.00	1.321	1.011	22.3
Back side_UL 66C	20+20	QPSK 1_0	132322+132124/1745+1725.2	1:1	0.784	-0.12	22.89	24.00	1.291	1.012	22.3
Back side	20	QPSK 1_0	132072/1720	1:1	0.643	0.14	22.88	24.00	1.294	0.832	22.3
Back side	20	QPSK 1_0	132572/1770	1:1	0.807	-0.11	22.91	24.00	1.285	1.037	22.3
Left side	20	QPSK 1_0	132322/1745	1:1	0.265	0.01	22.93	24.00	1.279	0.339	22.3
Right side	20	QPSK 1_0	132322/1745	1:1	0.396	0.12	22.93	24.00	1.279	0.507	22.3
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.667	0.17	22.93	24.00	1.279	0.853	22.3
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.533	-0.09	22.88	24.00	1.294	0.690	22.3
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.594	0.02	22.91	24.00	1.285	0.763	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.554	-0.06	22.31	23.00	1.172	0.649	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.697	0.13	22.31	23.00	1.172	0.817	22.3
Back side	20	QPSK 50_0	132072/1720	1:1	0.634	0.02	22.72	23.00	1.067	0.676	22.3
Back side	20	QPSK 50_0	132572/1770	1:1	0.690	0.08	22.90	23.00	1.023	0.706	22.3
Left side	20	QPSK 50_0	132322/1745	1:1	0.217	0.01	22.31	23.00	1.172	0.254	22.3
Right side	20	QPSK 50_0	132322/1745	1:1	0.391	0.16	22.31	23.00	1.172	0.458	22.3
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.635	0.15	22.31	23.00	1.172	0.744	22.3
Hotspot Test data(Separate 10mm 100%RB)											
Front side	20	QPSK 100_0	132322/1745	1:1	0.566	0.01	21.82	23.00	1.312	0.743	22.3
Back side	20	QPSK 100_0	132322/1745	1:1	0.672	-0.18	21.82	23.00	1.312	0.882	22.3
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.614	0.02	21.82	23.00	1.312	0.806	22.3

Table 39: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	132322/1745	0.821	0.816	1.006127451	N/A	N/A

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

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

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

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

8.2.13 SAR Result of LTE Band 71

LTE Band 71 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	20	QPSK 1_0	133322/683	1:1	0.152	0.11	23.65	25.00	1.365	0.207	22.3
Left tilted	20	QPSK 1_0	133322/683	1:1	0.086	0.06	23.65	25.00	1.365	0.117	22.3
Right cheek	20	QPSK 1_0	133322/683	1:1	0.176	0.09	23.65	25.00	1.365	0.240	22.3



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Right tilted	20	QPSK 1_0	133322/683	1:1	0.088	0.11	23.65	25.00	1.365	0.120	22.3
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	133322/683	1:1	0.139	-0.02	22.91	24.00	1.285	0.179	22.3
Left tilted	20	QPSK 50_0	133322/683	1:1	0.080	0.09	22.91	24.00	1.285	0.103	22.3
Right cheek	20	QPSK 50_0	133322/683	1:1	0.129	-0.17	22.91	24.00	1.285	0.166	22.3
Right tilted	20	QPSK 50_0	133322/683	1:1	0.070	-0.07	22.91	24.00	1.285	0.090	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	133322/683	1:1	0.241	0.17	23.65	25.00	1.365	0.329	22.3
Back side	20	QPSK 1_0	133322/683	1:1	0.303	-0.01	23.65	25.00	1.365	0.413	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	133322/683	1:1	0.202	-0.18	22.91	24.00	1.285	0.260	22.3
Back side	20	QPSK 50_0	133322/683	1:1	0.268	0.07	22.91	24.00	1.285	0.344	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	133322/683	1:1	0.212	0.03	23.65	25.00	1.365	0.289	22.3
Back side	20	QPSK 1_0	133322/683	1:1	0.331	0.07	23.65	25.00	1.365	0.452	22.3
Left side	20	QPSK 1_0	133322/683	1:1	0.159	0.03	23.65	25.00	1.365	0.217	22.3
Right side	20	QPSK 1_0	133322/683	1:1	0.218	-0.01	23.65	25.00	1.365	0.297	22.3
Bottom side	20	QPSK 1_0	133322/683	1:1	0.039	0.17	23.65	25.00	1.365	0.053	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	133322/683	1:1	0.179	-0.14	22.91	24.00	1.285	0.230	22.3
Back side	20	QPSK 50_0	133322/683	1:1	0.288	-0.10	22.91	24.00	1.285	0.370	22.3
Left side	20	QPSK 50_0	133322/683	1:1	0.144	0.02	22.91	24.00	1.285	0.185	22.3
Right side	20	QPSK 50_0	133322/683	1:1	0.194	-0.18	22.91	24.00	1.285	0.249	22.3
Bottom side	20	QPSK 50_0	133322/683	1:1	0.024	0.10	22.91	24.00	1.285	0.031	22.3

Table 40: SAR of LTE Band 71 for Head and Body.

8.2.14 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant8 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	99.52%	1.005	0.199	0.09	14.15	15.00	1.216	0.243	22.4
Left tilted	802.11b	6/2437	99.52%	1.005	0.185	-0.06	14.15	15.00	1.216	0.226	22.4
Right cheek	802.11b	6/2437	99.52%	1.005	0.591	0.16	14.15	15.00	1.216	0.722	22.4
Right tilted	802.11b	6/2437	99.52%	1.005	0.273	-0.15	14.15	15.00	1.216	0.334	22.4
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.52%	1.005	0.068	-0.19	14.15	15.00	1.216	0.083	22.4
Back side	802.11b	6/2437	99.52%	1.005	0.121	0.18	14.15	15.00	1.216	0.148	22.4
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.52%	1.005	0.109	0.11	14.15	15.00	1.216	0.133	22.4
Back side	802.11b	6/2437	99.52%	1.005	0.214	-0.08	14.15	15.00	1.216	0.262	22.4
Left side	802.11b	6/2437	99.52%	1.005	0.096	0.10	14.15	15.00	1.216	0.117	22.4
Top side	802.11b	6/2437	99.52%	1.005	0.057	0.01	14.15	15.00	1.216	0.070	22.4

Table 41: 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.



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8.2.15 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
Ant6 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	802.11ac 80M	58/5290	86.49%	1.156	0.076	-0.03	14.16	15.00	1.213	0.107	22.4
Left tilted	802.11ac 80M	58/5290	86.49%	1.156	0.062	-0.02	14.16	15.00	1.213	0.087	22.4
Right cheek	802.11ac 80M	58/5290	86.49%	1.156	0.496	0.02	14.16	15.00	1.213	0.696	22.4
Right tilted	802.11ac 80M	58/5290	86.49%	1.156	0.207	-0.01	14.16	15.00	1.213	0.290	22.4
Head Test data of U-NII-2C											
Left cheek	802.11ac 80M	122/5610	86.49%	1.156	0.060	-0.16	13.80	14.50	1.175	0.082	22.2
Left tilted	802.11ac 80M	122/5610	86.49%	1.156	0.036	0.10	13.80	14.50	1.175	0.049	22.2
Right cheek	802.11ac 80M	122/5610	86.49%	1.156	0.343	-0.11	13.80	14.50	1.175	0.466	22.2
Right tilted	802.11ac 80M	122/5610	86.49%	1.156	0.161	-0.09	13.80	14.50	1.175	0.219	22.2
Head Test data of U-NII-3											
Left cheek	802.11ac 80M	155/5775	86.49%	1.156	0.055	0.02	15.38	16.50	1.294	0.082	22.3
Left tilted	802.11ac 80M	155/5775	86.49%	1.156	0.052	0.13	15.38	16.50	1.294	0.078	22.3
Right cheek	802.11ac 80M	155/5775	86.49%	1.156	0.473	0.02	15.38	16.50	1.294	0.708	22.3
Right tilted	802.11ac 80M	155/5775	86.49%	1.156	0.167	-0.10	15.38	16.50	1.294	0.250	22.3
Body worn Test data of U-NII-2A(Separate 15mm)											
Front side	802.11ac 80M	58/5290	86.49%	1.156	0.070	-0.16	14.16	15.00	1.213	0.098	22.4
Back side	802.11ac 80M	58/5290	86.49%	1.156	0.263	0.06	14.16	15.00	1.213	0.369	22.4
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11ac 80M	122/5610	86.49%	1.156	0.059	-0.10	13.80	14.50	1.175	0.080	22.2
Back side	802.11ac 80M	122/5610	86.49%	1.156	0.152	0.05	13.80	14.50	1.175	0.206	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11ac 80M	155/5775	86.49%	1.156	0.083	0.16	15.38	16.50	1.294	0.124	22.3
Back side	802.11ac 80M	155/5775	86.49%	1.156	0.273	0.04	15.38	16.50	1.294	0.409	22.3
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11ac 80M	42/5210	86.49%	1.156	0.087	0.04	13.77	15.00	1.327	0.134	22.4
Back side	802.11ac 80M	42/5210	86.49%	1.156	0.287	-0.09	13.77	15.00	1.327	0.440	22.4
Left side	802.11ac 80M	42/5210	86.49%	1.156	0.428	0.06	13.77	15.00	1.327	0.657	22.4
Top side	802.11ac 80M	42/5210	86.49%	1.156	0.054	-0.12	13.77	15.00	1.327	0.083	22.4
Hotspot Test data of U-NII-3(Separate 10mm)											
Front side	802.11ac 80M	155/5775	86.49%	1.156	0.111	0.18	15.38	16.50	1.294	0.166	22.3
Back side	802.11ac 80M	155/5775	86.49%	1.156	0.321	0.06	15.38	16.50	1.294	0.480	22.3
Left side	802.11ac 80M	155/5775	86.49%	1.156	0.459	0.04	15.38	16.50	1.294	0.687	22.3
Top side	802.11ac 80M	155/5775	86.49%	1.156	0.074	-0.09	15.38	16.50	1.294	0.111	22.3
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)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11ac 80M	58/5290	86.49%	1.156	0.295	-0.09	14.16	15.00	1.213	0.414	22.4
Back side	802.11ac 80M	58/5290	86.49%	1.156	0.521	-0.01	14.16	15.00	1.213	0.731	22.4
Left side	802.11ac 80M	58/5290	86.49%	1.156	0.858	0.01	14.16	15.00	1.213	1.204	22.4
Top side	802.11ac 80M	58/5290	86.49%	1.156	0.081	0.14	14.16	15.00	1.213	0.114	22.4
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11ac 80M	122/5610	86.49%	1.156	0.127	-0.04	13.80	14.50	1.175	0.173	22.2
Back side	802.11ac 80M	122/5610	86.49%	1.156	0.413	-0.04	13.80	14.50	1.175	0.561	22.2
Left side	802.11ac 80M	122/5610	86.49%	1.156	0.503	-0.06	13.80	14.50	1.175	0.683	22.2



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Top side	802.11ac 80M	122/5610	86.49%	1.156	0.037	-0.17	13.80	14.50	1.175	0.050	22.2
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Table 42: SAR of WIFI 5G for Head and Body.

Note:

- 1) 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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8.2.16 SAR Result of BT

Bluetooth SAR Test Record											
Ant9 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	78.00%	1.282	0.015	0.09	8.16	9.00	1.213	0.023	22.4
Left tilted	DH5	39/2441	78.00%	1.282	0.009	0.09	8.16	9.00	1.213	0.014	22.4
Right cheek	DH5	39/2441	78.00%	1.282	0.055	-0.14	8.16	9.00	1.213	0.086	22.4
Right tilted	DH5	39/2441	78.00%	1.282	0.020	0.12	8.16	9.00	1.213	0.031	22.4
Body worn Test data (Separate 15mm)											
Front side	DH5	39/2441	78.00%	1.282	0.009	-0.07	8.16	9.00	1.213	0.014	22.4
Back side	DH5	39/2441	78.00%	1.282	0.014	-0.06	8.16	9.00	1.213	0.022	22.4
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	78.00%	1.282	0.014	-0.04	8.16	9.00	1.213	0.022	22.4
Back side	DH5	39/2441	78.00%	1.282	0.028	0.12	8.16	9.00	1.213	0.044	22.4
Left side	DH5	39/2441	78.00%	1.282	0.009	-0.12	8.16	9.00	1.213	0.014	22.4
Top side	DH5	39/2441	78.00%	1.282	0.013	-0.01	8.16	9.00	1.213	0.020	22.4

Table 43: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

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

Note:

- 1) The device support DTM function.
- 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) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it 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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8.3.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

Test position		SARmax (W/kg)				Summed SAR	
		Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	BT		
		1	2	3	4	1+2	1+3+4
GSM850	Left cheek	0.575	0.243	0.107	0.023	0.818	0.705
	Left tilted	0.436	0.226	0.087	0.014	0.662	0.537
	Right cheek	0.504	0.722	0.708	0.086	1.226	1.298
	Right tilted	0.362	0.334	0.290	0.031	0.696	0.683
GSM1900	Left cheek	1.228	0.243	0.107	0.023	1.471	1.358
	Left tilted	0.737	0.226	0.087	0.014	0.963	0.838
	Right cheek	0.489	0.722	0.708	0.086	1.211	1.283
	Right tilted	0.336	0.334	0.290	0.031	0.670	0.657
WCDMA II	Left cheek	1.077	0.243	0.107	0.023	1.320	1.207
	Left tilted	0.747	0.226	0.087	0.014	0.973	0.848
	Right cheek	0.698	0.722	0.708	0.086	1.420	1.492
	Right tilted	0.454	0.334	0.290	0.031	0.788	0.775
WCDMA IV	Left cheek	0.220	0.243	0.107	0.023	0.463	0.350
	Left tilted	0.060	0.226	0.087	0.014	0.286	0.161
	Right cheek	0.205	0.722	0.708	0.086	0.927	0.999
	Right tilted	0.118	0.334	0.290	0.031	0.452	0.439
WCDMA V	Left cheek	0.276	0.243	0.107	0.023	0.519	0.406
	Left tilted	0.181	0.226	0.087	0.014	0.407	0.282
	Right cheek	0.205	0.722	0.708	0.086	0.927	0.999
	Right tilted	0.136	0.334	0.290	0.031	0.470	0.457
LTE Band 2	Left cheek	0.289	0.243	0.107	0.023	0.532	0.419
	Left tilted	0.261	0.226	0.087	0.014	0.487	0.362
	Right cheek	0.492	0.722	0.708	0.086	1.214	1.286
	Right tilted	0.294	0.334	0.290	0.031	0.628	0.615
LTE Band 5	Left cheek	0.458	0.243	0.107	0.023	0.701	0.588
	Left tilted	0.252	0.226	0.087	0.014	0.478	0.353
	Right cheek	0.261	0.722	0.708	0.086	0.983	1.055
	Right tilted	0.208	0.334	0.290	0.031	0.542	0.529
LTE Band 7	Left cheek	0.884	0.243	0.107	0.023	1.127	1.014
	Left tilted	1.029	0.226	0.087	0.014	1.255	1.130
	Right cheek	0.792	0.722	0.708	0.086	1.514	1.586
	Right tilted	0.932	0.334	0.290	0.031	1.266	1.253
LTE Band 12	Left cheek	0.308	0.243	0.107	0.023	0.551	0.438
	Left tilted	0.152	0.226	0.087	0.014	0.378	0.253
	Right cheek	0.203	0.722	0.708	0.086	0.925	0.997
	Right tilted	0.141	0.334	0.290	0.031	0.475	0.462
LTE Band 13	Left cheek	0.294	0.243	0.107	0.023	0.537	0.424
	Left tilted	0.162	0.226	0.087	0.014	0.388	0.263
	Right cheek	0.233	0.722	0.708	0.086	0.955	1.027
	Right tilted	0.180	0.334	0.290	0.031	0.514	0.501
LTE Band 41	Left cheek	0.586	0.243	0.107	0.023	0.829	0.716
	Left tilted	0.895	0.226	0.087	0.014	1.121	0.996
	Right cheek	0.708	0.722	0.708	0.086	1.430	1.502



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	Right tilted	0.761	0.334	0.290	0.031	1.095	1.082
LTE Band 66	Left cheek	0.406	0.243	0.107	0.023	0.649	0.536
	Left tilted	0.137	0.226	0.087	0.014	0.363	0.238
	Right cheek	0.443	0.722	0.708	0.086	1.165	1.237
	Right tilted	0.186	0.334	0.290	0.031	0.520	0.507
	Left cheek	0.207	0.243	0.107	0.023	0.450	0.337
LTE Band 71	Left tilted	0.117	0.226	0.087	0.014	0.343	0.218
	Right cheek	0.240	0.722	0.708	0.086	0.962	1.034
	Right tilted	0.120	0.334	0.290	0.031	0.454	0.441

Simultaneous Transmission SAR Summation Scenario for WLAN Body: Body-worn:

Test position		SARmax (W/kg)				Summed SAR	
		Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	BT		
		1	2	3	4	1+2	1+3+4
GSM850	Front side	0.517	0.083	0.124	0.014	0.600	0.655
	Back side	0.596	0.148	0.409	0.022	0.744	1.027
GSM1900	Front side	0.133	0.083	0.124	0.014	0.216	0.271
	Back side	0.243	0.148	0.409	0.022	0.391	0.674
WCDMA II	Front side	0.164	0.083	0.124	0.014	0.247	0.302
	Back side	0.332	0.148	0.409	0.022	0.480	0.763
WCDMA IV	Front side	0.312	0.083	0.124	0.014	0.395	0.450
	Back side	0.374	0.148	0.409	0.022	0.522	0.805
WCDMA V	Front side	0.213	0.083	0.124	0.014	0.296	0.351
	Back side	0.264	0.148	0.409	0.022	0.412	0.695
LTE Band 2	Front side	0.551	0.083	0.124	0.014	0.634	0.689
	Back side	0.649	0.148	0.409	0.022	0.797	1.080
LTE Band 5	Front side	0.311	0.083	0.124	0.014	0.394	0.449
	Back side	0.383	0.148	0.409	0.022	0.531	0.814
LTE Band 7	Front side	0.133	0.083	0.124	0.014	0.216	0.271
	Back side	0.356	0.148	0.409	0.022	0.504	0.787
LTE Band 12	Front side	0.351	0.083	0.124	0.014	0.434	0.489
	Back side	0.507	0.148	0.409	0.022	0.655	0.938
LTE Band 13	Front side	0.279	0.083	0.124	0.014	0.362	0.417
	Back side	0.384	0.148	0.409	0.022	0.532	0.815
LTE Band 41	Front side	0.113	0.083	0.124	0.014	0.196	0.251
	Back side	0.286	0.148	0.409	0.022	0.434	0.717
LTE Band 66	Front side	0.499	0.083	0.124	0.014	0.582	0.637
	Back side	0.522	0.148	0.409	0.022	0.670	0.953
LTE Band 71	Front side	0.329	0.083	0.124	0.014	0.412	0.467
	Back side	0.413	0.148	0.409	0.022	0.561	0.844

Hotspot:

Test position		SARmax (W/kg)				Summed SAR	
		Main Ant0	WiFi 2.4G Ant6(chain0)	WiFi 5G Ant6(chain0)	BT		
		1	2	3	4	1+2	1+3+4
GSM850	Front side	0.531	0.133	0.166	0.022	0.664	0.719
	Back side	0.856	0.262	0.480	0.044	1.118	1.380



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	Left side	0.162	0.117	0.687	0.014	0.279	0.863
	Right side	0.337	0.000	0.000	0.000	0.337	0.337
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.364	0.000	0.000	0.000	0.364	0.364
GSM1900	Front side	0.387	0.133	0.166	0.022	0.520	0.575
	Back side	0.901	0.262	0.480	0.044	1.163	1.425
	Left side	0.000	0.117	0.687	0.014	0.117	0.701
	Right side	0.506	0.000	0.000	0.000	0.506	0.506
	Top side	0.530	0.070	0.111	0.020	0.600	0.661
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA II	Front side	0.344	0.133	0.166	0.022	0.477	0.532
	Back side	0.737	0.262	0.480	0.044	0.999	1.261
	Left side	0.000	0.117	0.687	0.014	0.117	0.701
	Right side	0.509	0.000	0.000	0.000	0.509	0.509
	Top side	0.576	0.070	0.111	0.020	0.646	0.707
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA IV	Front side	0.592	0.133	0.166	0.022	0.725	0.780
	Back side	0.744	0.262	0.480	0.044	1.006	1.268
	Left side	0.268	0.117	0.687	0.014	0.385	0.969
	Right side	0.371	0.000	0.000	0.000	0.371	0.371
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.694	0.000	0.000	0.000	0.694	0.694
WCDMA V	Front side	0.202	0.133	0.166	0.022	0.335	0.390
	Back side	0.383	0.262	0.480	0.044	0.645	0.907
	Left side	0.132	0.117	0.687	0.014	0.249	0.833
	Right side	0.148	0.000	0.000	0.000	0.148	0.148
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.143	0.000	0.000	0.000	0.143	0.143
LTE Band 2	Front side	0.917	0.133	0.166	0.022	1.050	1.105
	Back side	1.038	0.262	0.480	0.044	1.300	1.562
	Left side	0.431	0.117	0.687	0.014	0.548	1.132
	Right side	0.581	0.000	0.000	0.000	0.581	0.581
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.790	0.000	0.000	0.000	0.790	0.790
LTE Band 5	Front side	0.066	0.133	0.166	0.022	0.199	0.254
	Back side	0.118	0.262	0.480	0.044	0.380	0.642
	Left side	0.150	0.117	0.687	0.014	0.267	0.851
	Right side	0.191	0.000	0.000	0.000	0.191	0.191
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.245	0.000	0.000	0.000	0.245	0.245
LTE Band 7	Front side	0.208	0.133	0.166	0.022	0.341	0.396
	Back side	0.747	0.262	0.480	0.044	1.009	1.271
	Left side	0.000	0.117	0.687	0.014	0.117	0.701
	Right side	0.524	0.000	0.000	0.000	0.524	0.524
	Top side	0.657	0.070	0.111	0.020	0.727	0.788
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 12	Front side	0.321	0.133	0.166	0.022	0.454	0.509
	Back side	0.484	0.262	0.480	0.044	0.746	1.008
	Left side	0.212	0.117	0.687	0.014	0.329	0.913
	Right side	0.292	0.000	0.000	0.000	0.292	0.292
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.006	0.000	0.000	0.000	0.006	0.006
LTE Band 13	Front side	0.283	0.133	0.166	0.022	0.416	0.471
	Back side	0.425	0.262	0.480	0.044	0.687	0.949



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	Left side	0.175	0.117	0.687	0.014	0.292	0.876
	Right side	0.212	0.000	0.000	0.000	0.212	0.212
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.075	0.000	0.000	0.000	0.075	0.075
LTE Band 41	Front side	0.200	0.133	0.166	0.022	0.333	0.388
	Back side	0.636	0.262	0.480	0.044	0.898	1.160
	Left side	0.000	0.117	0.687	0.014	0.117	0.701
	Right side	0.429	0.000	0.000	0.000	0.429	0.429
	Top side	0.558	0.070	0.111	0.020	0.628	0.689
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 66	Front side	0.884	0.133	0.166	0.022	1.017	1.072
	Back side	1.050	0.262	0.480	0.044	1.312	1.574
	Left side	0.339	0.117	0.687	0.014	0.456	1.040
	Right side	0.507	0.000	0.000	0.000	0.507	0.507
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.853	0.000	0.000	0.000	0.853	0.853
LTE Band 71	Front side	0.289	0.133	0.166	0.022	0.422	0.477
	Back side	0.452	0.262	0.480	0.044	0.714	0.976
	Left side	0.217	0.117	0.687	0.014	0.334	0.918
	Right side	0.297	0.000	0.000	0.000	0.297	0.297
	Top side	0.000	0.070	0.111	0.020	0.070	0.131
	Bottom side	0.053	0.000	0.000	0.000	0.053	0.053



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9 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
☒	Twin Phantom	SPEAG	SAM 3	1770	NCR	NCR
☒	DAE	SPEAG	DAE4	1374	2023-06-05	2024-06-04
☒	E-Field Probe	SPEAG	EX3DV4	3982	2023-01-06	2024-01-05
☒	E-Field Probe	SPEAG	EX3DV4	3962	2023-06-29	2024-06-28
☒	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
☒	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2024-08-24
☒	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15
☒	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2024-05-03
☒	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2024-08-27
☒	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
☒	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
☒	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
☒	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
☒	Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22
☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	LKM	DTM3000	SUW201-19-02	2023-09-15	2024-09-14
☒	Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-15	2024-09-14

Note: All the equipments are within the valid period when the tests are performed.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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