



SAR TEST REPORT

Report No.: 20230417G03483X-W2
Product Name: LTE Smart Phone
Model Name: SH4650
Marketing Name: Roadrunner
Trade Name: START, Consumer Cellular, Verve, IRIS
Brand Name: START, Consumer Cellular, Verve, IRIS
FCC ID: 2AWF6-SH4650
Applicant: START USA, INC.
Address: 6860 Dallas Parkway, Suite 200, Plano, TX 75024, USA
Test Date: 2023/05/30~2023/06/17
Issued by: CCIC Southern Testing Co., Ltd.
Lab Location: Electronic Testing Building, No. 43 Shahe Road Xili Street, Nanshan District, Shenzhen, Guangdong 518055, China
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Test Report

Applicant: START USA, INC.

Applicant Address: 6860 Dallas Parkway, Suite 200, Plano, TX 75024, USA

Manufacturer: THINKSTART ELECTRONIC TECHNOLOGY CO., LTD.

Manufacturer Address: Unit A1-403, Kexing Science Park, 15 Keyuan Road, Nanshan District, Shenzhen, CHINA

47CFR §2.1093- Radiofrequency Radiation Exposure Evaluation: Portable Devices;

Test Standards: **ANSI C95.1-1992:** Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)

IEEE 1528-2013: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

Test Result: Pass

Tested by: Carl Wei 2023-06-25

Carl Wei, Test Engineer

Reviewed by: Chris You 2023-06-25

Chris You, Senior Engineer

Approved by: Yang Fan 2023-06-25

Yang Fan, Manager



Contents

Test Report	2
1. Administrative Data.....	4
2. Equipment Under Test (EUT)	5
3. SAR Summary	7
4. Specific Absorption Rate (SAR).....	10
5. Tissue check and recommend Dielectric Parameters	14
6. SAR measurement procedure	19
7. Proximity Sensor Triggering Test	20
8. Conducted RF Output Power	25
9. Antenna Location:.....	61
10. Scaling Factor calculation	63
11. Test Results	67
12. Simultaneous Transmissions Analysis	91
13. Measurement Uncertainty.....	95
14. Equipment List.....	99
ANNEX A: Appendix A: SAR System performance Check Plots.....	100
ANNEX B: Appendix B: SAR Measurement results Plots.....	100
ANNEX C: Appendix C: Calibration reports	100
ANNEX D: Appendix D: SAR Test Setup.....	100



1. Administrative Data

1.1 Testing Laboratory

Test Site:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No. 43 Shahe Road Xili Street, Nanshan District, Shenzhen, Guangdong 518055, China
A2LA Lab Code:	CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025:2017. The accreditation certificate number is 5721.01
FCC Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until June 30th, 2023.
ISED Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until June 30th, 2023.
Test Environment Condition:	Temperature (°C): 18 °C ~25 °C Relative Humidity (%): 35%~75% RH Atmospheric Pressure (kPa): 86KPa-106KPa



2. Equipment Under Test (EUT)

Identification of the Equipment under Test

Device type :	portable device	
Exposure category:	uncontrolled environment / general population	
Product Name:	LTE Smart Phone	
Brand Name:	START, Consumer Cellular, Verve, IRIS	
Model Name:	SH4650	
Operating Band(s):	UMTS Band I/IV/V,LTE Band 2,4,5,12,66, WIFI2.4G, WIFI5G (Band 1,2,3,4) ,BT	
Test Band(s):	UMTS Band I/IV/V,LTE Band 2,4,5,12,66, WIFI2.4G, WIFI5G (Band 1,2,3,4) ,BT	
Test modulation:	UMTS(QPSK),LTE(QPSK/16QAM/64QAM), WI-FI 2.4G(DSSS, OFDM), WI-FI 5G(OFDM), BT(GFSK/ π /4-DQPSK/8-DPSK)	
IMEI:	359175940001792	
Tested frequency range(s)	transmitter frequency range	receiver frequency range
UMTS Band V:	824-849 MHz	869-894 MHz
UMTS Band IV:	1710-1755 MHz	2110-2155 MHz
UMTS Band II:	1850-1910 MHz	1930-1990 MHz
LTE Band 2:	1850-1910 MHz	1930-1990 MHz
LTE Band 4:	1710-1755 MHz	2110-2155 MHz
LTE Band 5:	824-849 MHz	869-894 MHz
LTE Band 12:	698-716 MHz	728-746 MHz
LTE Band 66:	1710-1780 MHz	2110-2200 MHz
Wi-Fi:	2412-2462 MHz	
	5150-5250 MHz	
	5250-5350 MHz	
	5470-5725 MHz	
	5725-5850 MHz	
Bluetooth:	2402-2480 MHz	
Hardware version :	SH4650HV1.0	
Software version :	SH4650SV1.0.5	
Antenna type :	Internal antenna	
Hotspot :	2.4GHz WLAN support Hotspot mode	
Battery options :	Model No.: SA3405 Capacitance: 4000mAh Rated Voltage: 3.85V Charge Limit: 4.4V Manufacturer: Phenix New Energy(Huizhou)Co.,Ltd.	
MAX. SAR Value:	Head: 1.117 W/Kg(Limit:1.6 W/Kg) Body-worn: 1.024 W/Kg(Limit:1.6 W/Kg) Hotspot: 1.024 W/Kg(Limit:1.6 W/Kg)	



Note:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. EUT WCDMA/LTE primary and secondary antennas all support transmitting and receiving, but LTE does not support MIMO function.



3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Head	WCDMA Band V ANT 2	0.036	1.117
	WCDMA Band IV ANT 2	0.367	
	WCDMA Band II ANT 2	0.120	
	LTE Band 2 ANT 2	0.143	
	LTE Band 4 ANT 2	0.469	
	LTE Band 5 ANT 2	0.284	
	LTE Band 12 ANT 2	1.117	
	LTE Band 66 ANT 2	0.533	
	WCDMA Band V ANT 3	0.481	
	WCDMA Band IV ANT 3	0.473	
	WCDMA Band II ANT 3	0.466	
	LTE Band 2 ANT 3	0.367	
	LTE Band 4 ANT 3	0.768	
	LTE Band 5 ANT 3	0.277	
	LTE Band 12 ANT 3	0.562	
	LTE Band 66 ANT 3	0.212	
	WIFI 2.4G 802.11b ANT 1	0.132	
	WIFI U-NII 1 802.11a ANT 1	0.132	
	WIFI U-NII 2a 802.11a ANT 1	0.128	
	WIFI U-NII 2c 802.11a ANT 1	0.123	
WIFI U-NII 3 802.11a ANT 1	0.138		
BT ANT 1	0.146		



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Body-worn	WCDMA Band V ANT 2	0.053	1.024
	WCDMA Band IV ANT 2	0.489	
	WCDMA Band II ANT 2	0.050	
	LTE Band 2 ANT 2	0.520	
	LTE Band 4 ANT 2	0.203	
	LTE Band 5 ANT 2	1.024	
	LTE Band 12 ANT 2	0.622	
	LTE Band 66 ANT 2	0.902	
	WCDMA Band V ANT 3	0.223	
	WCDMA Band IV ANT 3	0.621	
	WCDMA Band II ANT 3	0.289	
	LTE Band 2 ANT 3	0.471	
	LTE Band 4 ANT 3	0.496	
	LTE Band 5 ANT 3	0.436	
	LTE Band 12 ANT 3	0.155	
	LTE Band 66 ANT 3	0.136	
	WIFI 2.4G 802.11b ANT 1	0.034	
	WIFI U-NII 1 802.11a ANT 1	0.184	
	WIFI U-NII 2a 802.11a ANT 1	0.205	
	WIFI U-NII 2c 802.11a ANT 1	0.350	
WIFI U-NII 3 802.11a ANT 1	0.346		
BT ANT 1	0.033		



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Hotspot (10mm Gap)	WCDMA Band V ANT 2	0.053	1.024
	WCDMA Band IV ANT 2	0.489	
	WCDMA Band II ANT 2	0.050	
	LTE Band 2 ANT 2	0.520	
	LTE Band 4 ANT 2	0.203	
	LTE Band 5 ANT 2	1.024	
	LTE Band 12 ANT 2	0.622	
	LTE Band 66 ANT 2	0.902	
	WCDMA Band V ANT 3	0.223	
	WCDMA Band IV ANT 3	0.621	
	WCDMA Band II ANT 3	0.289	
	LTE Band 2 ANT 3	0.471	
	LTE Band 4 ANT 3	0.496	
	LTE Band 5 ANT 3	0.436	
	LTE Band 12 ANT 3	0.155	
	LTE Band 66 ANT 3	0.136	
	WIFI 2.4G 802.11b ANT 1	0.034	
	WIFI U-NII 1 802.11a ANT 1	0.184	
	WIFI U-NII 2a 802.11a ANT 1	0.205	
	WIFI U-NII 2c 802.11a ANT 1	0.350	
WIFI U-NII 3 802.11a ANT 1	0.346		
BT ANT 1	0.033		

Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Simultaneous 1g-SAR(W/kg)
Hotspot	WWAN(WCDMA 1900 ANT 3) &WIFI 5G	1.374

4. Specific Absorption Rate (SAR)

4.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \frac{\delta T}{\delta t}$$

where C is the specific heat capacity, δT is the temperature rise and δt the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \frac{\sigma |E|^2}{\rho}$$

where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.



4.2 Applicable Standards and Limits

4.2.1 Applicable Standards

47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)
IEEE 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	v02r02 802.11 Wi-Fi SAR
KDB 447498 D01	v06 General RF Exposure Guidance
KDB 616217 D04	v01r02 SAR for laptop and tablets
KDB 648474 D04	v01r03 Handset SAR
KDB 865664 D01	v01r04 SAR Measurement 100MHz to 6GHz
KDB 865664 D02	v01r02 SAR Exposure Reporting
KDB 941225 D01	v03r01 3G SAR Procedures
KDB 941225 D05	v02r05 SAR for LTE Devices
KDB 941225 D05A	v01r02 LTE Rel.10 KDB Inquiry Sheet
KDB 941225 D06	v02r01 Hotspot Mode

4.2.2 RF exposure Limits

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR* (Brain/Body)	1.60 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g
Spatial Peak SAR**** (Limbs)	4.00 mW/g

The limit applied in this test report is shown in bold letters.

Notes:

* 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

** 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.

4.3 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SATIMO. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm).

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

4.4 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SATIMO as an integral part of the COMOSAR test system.

The device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder

4.5 Probe Specification

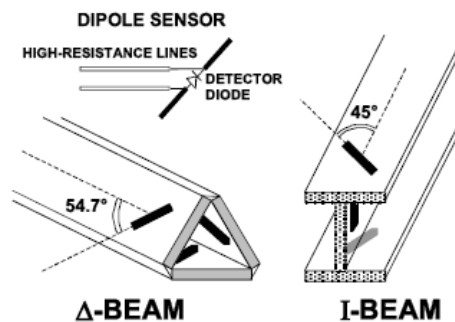


Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	700 MHz to 3 GHz; Linearity: ± 0.5 dB (700 MHz to 3 GHz)
Directivity	± 0.25 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	1.5 μ W/g to 100 mW/g; Linearity: ± 0.5 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 5 mm Distance from probe tip to dipole centers: <2.7 mm
Application	General dosimetry up to 3 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	COMOSAR

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:





5. Tissue check and recommend Dielectric Parameters

5.1 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness Power drifts in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Table 1: Recommended Dielectric Performance of Tissue

Ingredients (% by weight)	Frequency (MHz)											
	450		835		915		1900		2450		2600	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.46	52.4	41.05	56.0	54.9	40.4	62.7	73.2	55.24	64.49
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	0.5	0.024
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	0.0	0.0
Triton x-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	44.45	32.25
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.2	52.5	39.0	52.5
Conductivity (s/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.80	1.78	1.96	2.16

MSL/HSL750 (Body and Head liquid for 650 – 850 MHz)

Item	Head Tissue Simulation Liquid HSL750 Muscle(body)Tissue Simulation Liquid MSL750			
H2O	Water, 35 – 58%			
Sucrose	Sugar, white, refined, 40-60%			
NaCl	Sodium Chloride, 0-6%			
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%			
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1-0.7%			
Frequency (MHz)	Head ϵ_r	Head σ (S/m)	Body ϵ_r	Body σ (S/m)
750	41.9	0.89	55.2	0.97

Note: The liquid of 700MHz&2600MHz typical liquid composition is provided by SATIMO.



Frequency:5200/5400/5600/5800MHz	
Ingredients	(% by weight)
Water	78
Mineral oil	11
Emulsifiers	9
Additives and Salt	2

Table 2 Recommended Tissue Dielectric Parameters

Frequency (MHz)	Head Tissue		Body Tissue	
	ϵ_r	$\sigma(S/m)$	ϵ_r	$\sigma(S/m)$
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00



5.2 Simulate liquid

Liquid check results:

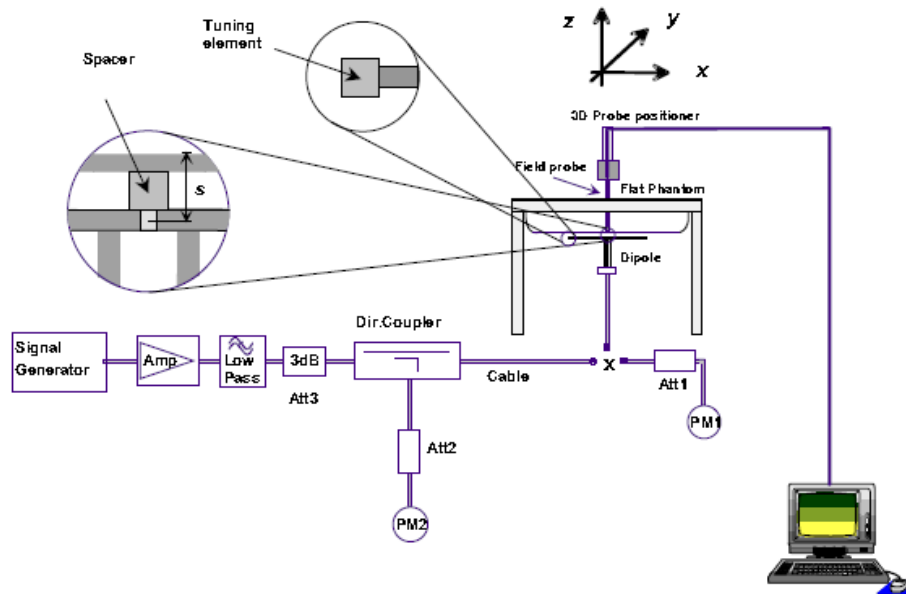
Table 3: Dielectric Performance of Tissue Simulating Liquid

/	Frequency	Permittivity ϵ	Conductivity σ (S/m)	Liquid Temp. (°C)	Test Date
Target value	750MHz	41.9±5% (39.805~43.995)	0.89±5% (0.8455~0.9345)	21.9	2023/05/30
Validation value		41.76	0.89		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	22.4	2023/06/08
Validation value		41.36	0.92		
Target value	1800MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.0	2023/06/10
Validation value		39.63	1.38		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.2	2023/06/09
Validation value		40.19	1.40		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.3	2023/06/17
Validation value		38.96	1.43		
Target value	2450MHz	39.2±5% (37.24~41.16)	1.80±5% (1.71~1.89)	22.3	2023/06/11
Validation value		38.64	1.79		
Target value	5200MHz	36.0±5% (34.20~37.80)	4.66±5% (4.427~4.893)	22.3	2023/06/12
Validation value		36.07	4.70		
Target value	5400MHz	35.8±5% (34.01~37.59)	4.86±5% (4.617~5.103)	22.3	2023/06/12
Validation value		35.74	4.95		
Target value	5600MHz	35.5±5% (33.725~37.275)	5.07±5% (4.8165~5.3235)	22.1	2023/06/13
Validation value		35.12	5.19		
Target value	5800MHz	35.3±5% (33.535~37.065)	5.27±5% (5.0065~5.5335)	22.1	2023/06/13
Validation value		34.68	5.37		

SAR System validation

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The following procedure, recommended for performing validation tests using box phantoms is based on the procedures described in the IEEE standard P1528. Setup according to the setup diagram below:



With the SG and Amp and with directional coupler in place, set up the source signal at the relevant frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.01W (10 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) and make a suitable correction to the power meter reading.

Note 1: In this method, the directional coupler is used for monitoring rather than setting the exact feed power level.

If, however, the directional coupler is used for power measurement, you should check the frequency range and power rating of the coupler and measure the coupling factor (referred to output) at the test frequency using a VNA.

Note 2: Remember that the use of a 3dB attenuator (as shown in Figure 8.1 of P1528) means that you need an RF amplifier of 2 times greater power for the same feed power. The other issue is the cable length. You might get up to 1dB of loss per meter of cable, so the cable length after the coupler needs to be quite short.

Note 3: For the validation testing done using CW signals, most power meters are suitable. However, if you are measuring the output of a modulated signal from either a signal generator or a handset, you must ensure that the power meter correctly reads the modulated signals.

The measured 1-gram averaged SAR values of the device against the phantom are provided in Tables 5 and Table 6. The body phantom were full of the body tissue simulating liquid. The EUT was supplied with full-charged battery for each measurement.

The distance between the back of the EUT and the bottom of the flat phantom is 10 mm (taking into account of the IEEE 1528 and the place of the antenna).

Table 4: system validation (1g)
System Check Results

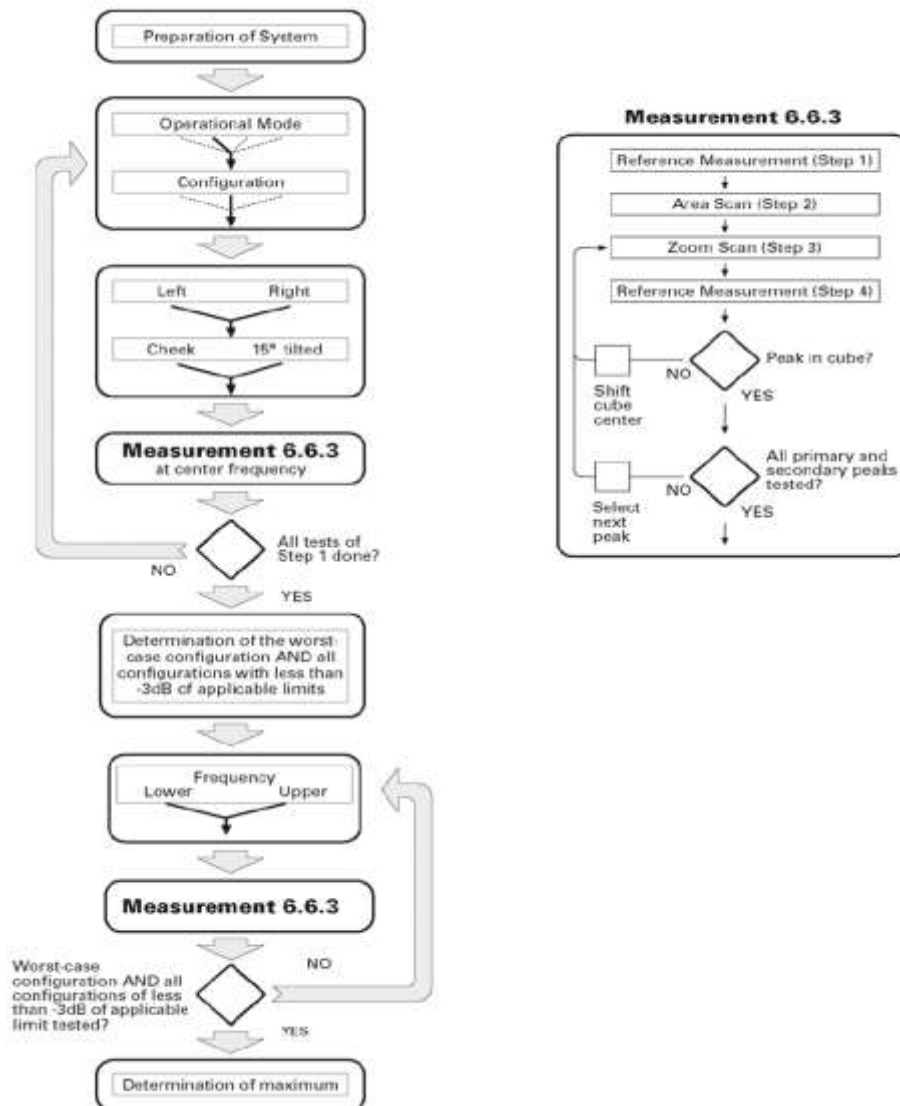
Frequency	Duty cycle	Target value (1-g) (W/Kg)	10mW Test value (1-g) (W/Kg)	Test SAR Normalized to 1W(w/Kg)	Test Date
750MHz	1:1	8.73 W/kg±10% (7.857~9.603)	0.0873	8.73	2023/05/30
835MHz	1:1	9.69 W/kg±10% (8.721~10.659)	0.0871	8.71	2023/06/08
1800MHz	1:1	37.25 W/kg±10% (33.525~40.975)	0.3674	36.74	2023/06/10
1900MHz	1:1	39.71 W/kg±10% (35.739~43.681)	0.4029	40.29	2023/06/09
1900MHz	1:1	39.71 W/kg±10% (35.739~43.681)	0.4081	40.81	2023/06/17
2450MHz	1:1	53.71 W/kg±10% (48.339~59.081)	0.5086	50.86	2023/06/11
5200MHz	1:1	151.11 W/kg±10% (135.999~166.221)	1.4744	147.44	2023/06/12
5400MHz	1:1	159.92 W/kg±10% (143.928~175.912)	1.6030	160.30	2023/06/12
5600MHz	1:1	165.99 W/kg±10% (149.391~182.589)	1.7712	177.12	2023/06/13
5800MHz	1:1	176.86 W/kg±10% (159.174~194.546)	1.7462	174.62	2023/06/13

Note:

1. Target value was referring to the measured value in the calibration certificate of reference dipole.
2. All SAR values are normalized to 1W forward power.

6. SAR measurement procedure

The SAR test against the head phantom was carried out as follow:



Establish a call with the maximum output power with a base station simulator, the connection between the EUT and the base station simulator is established via air interface.

After an area scan has been done at a fixed distance of 2mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE p1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.



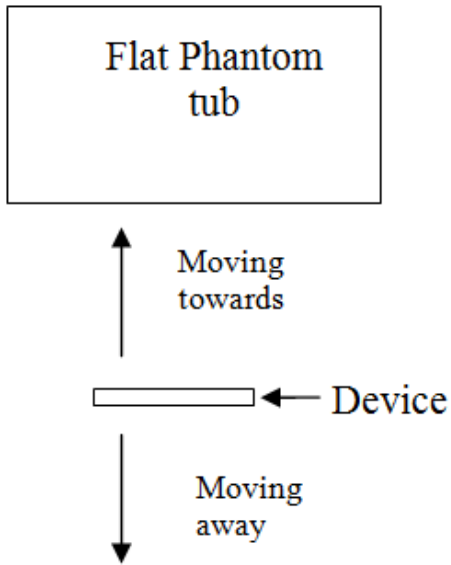
7. Proximity Sensor Triggering Test

1. Proximity sensor triggering distance

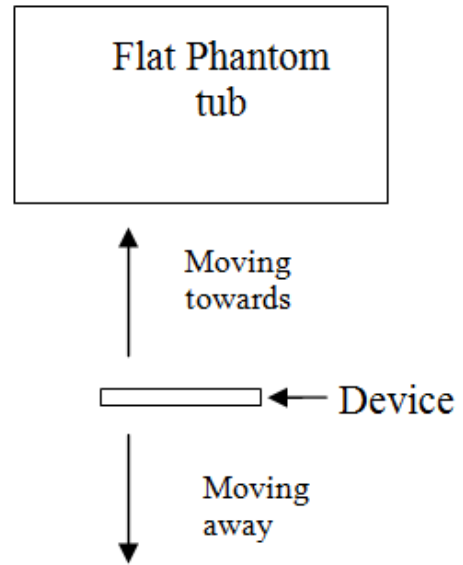
1). Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of Antenna 3 to ensure SAR compliance. It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure, the SAR requirements can still be satisfied.

2). The following tables summarize the key power reduction information for proximity sensor. The test procedures be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

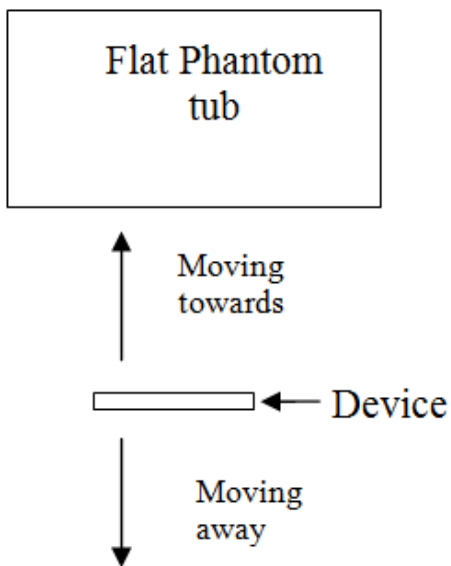
Antenna 3			
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount (dB)
WCDMA Band 2	Front side	/	0
	Back side	$0\text{mm} \leq \text{distance} \leq 17\text{mm}$	3.0
		$17\text{mm} < \text{distance}$	0
	Left edge	/	0
	Right edge	/	0
	Top edge	/	0
	Bottom edge	$0\text{mm} \leq \text{distance} \leq 13\text{mm}$	3.0
		$13\text{mm} < \text{distance}$	0
LTE Band 2	Front side	/	0
	Back side	$0\text{mm} \leq \text{distance} \leq 17\text{mm}$	3.0
		$17\text{mm} < \text{distance}$	0
	Left edge	/	0
	Right edge	/	0
	Top edge	/	0
	Bottom edge	$0\text{mm} \leq \text{distance} \leq 13\text{mm}$	3.0
		$13\text{mm} < \text{distance}$	0



Sensor detection test set-up,
front and back faces

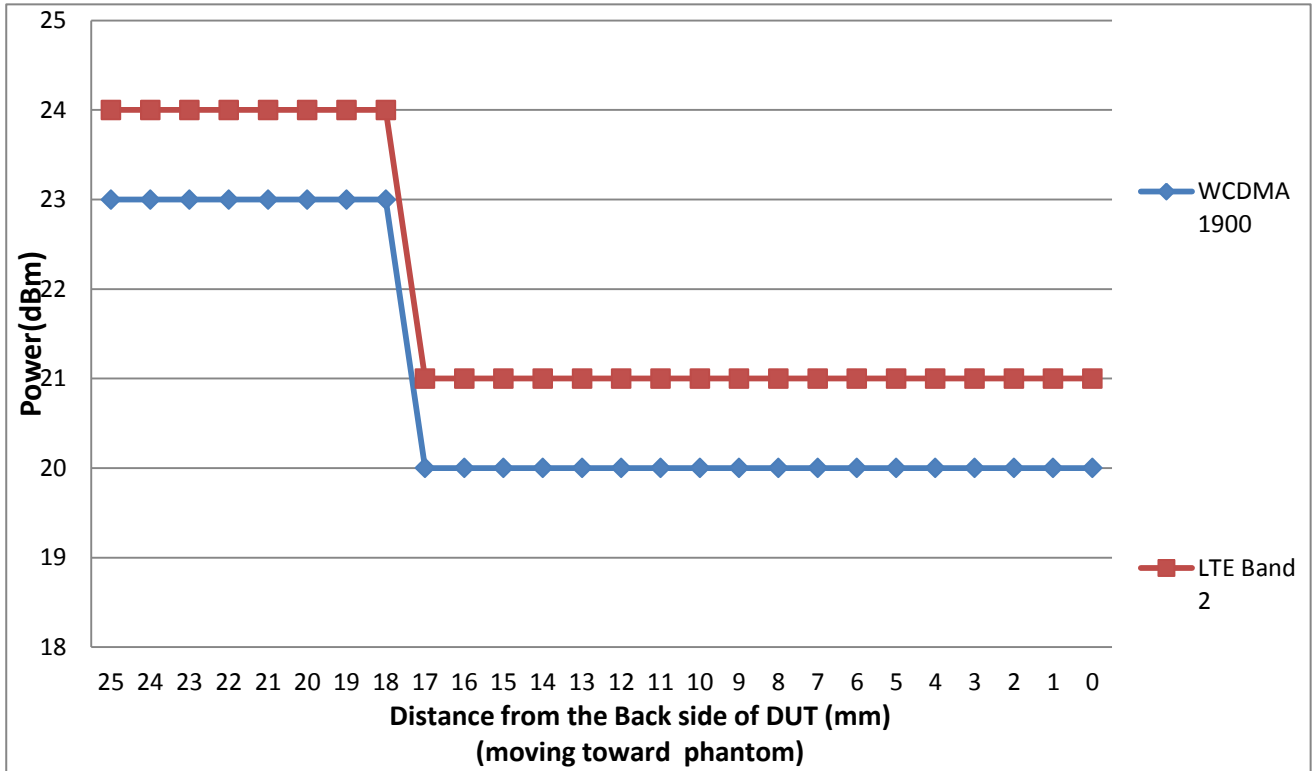


Sensor detection test set-up,
left and right faces

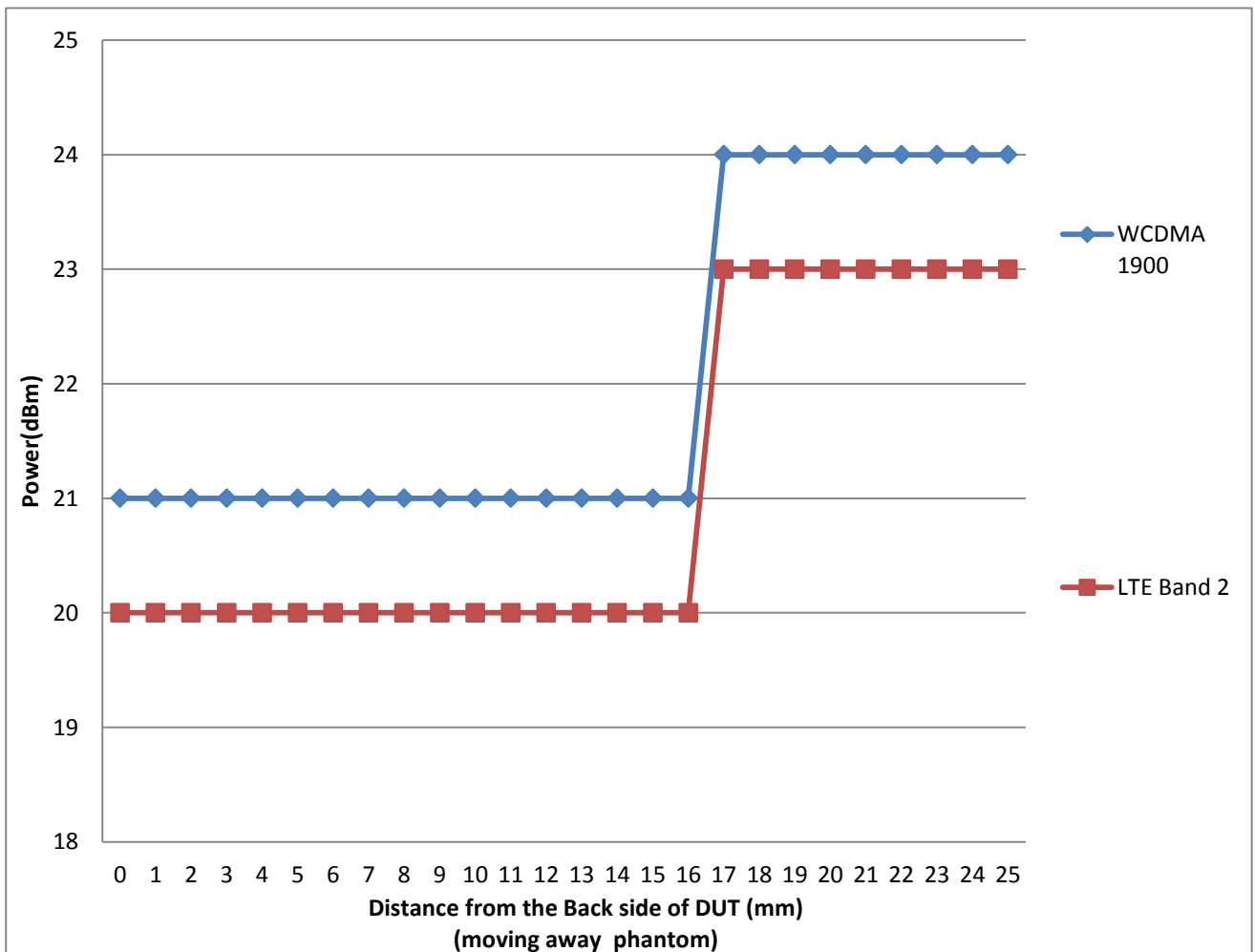


Sensor detection test set-up,
top and bottom faces

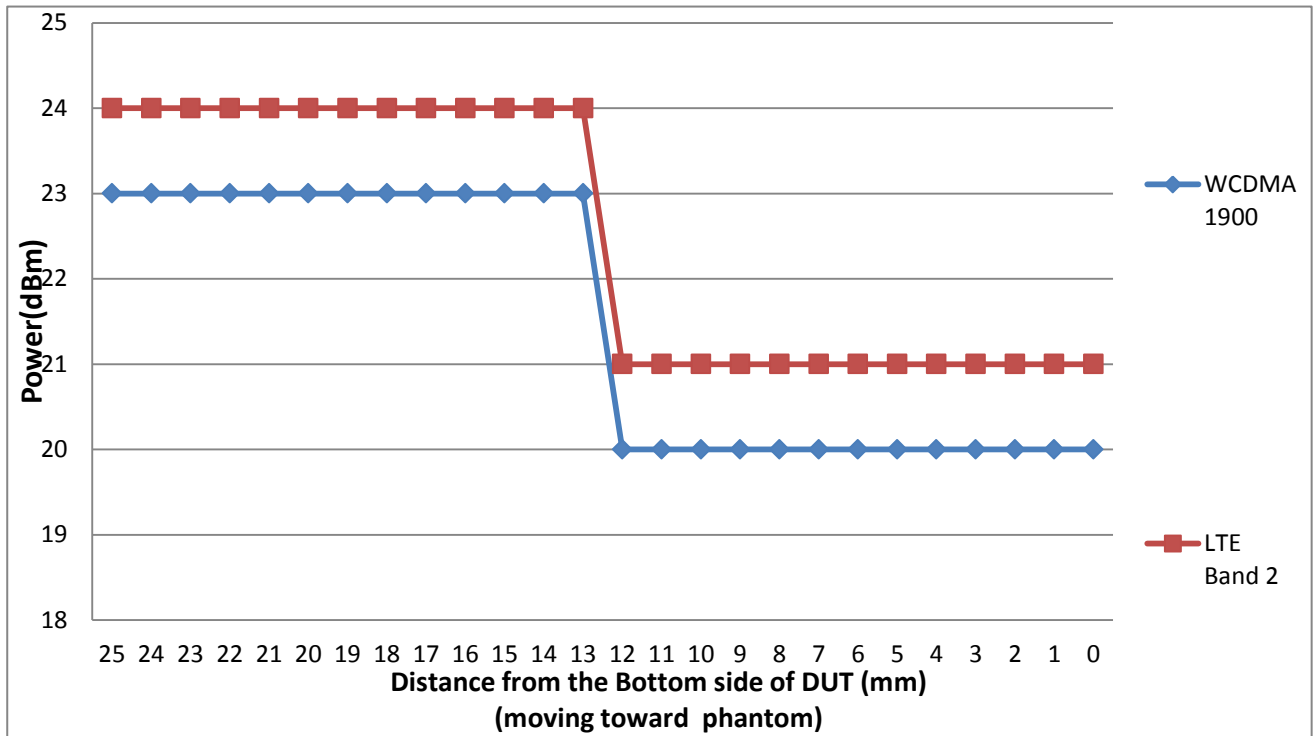
The DUT (Back edge) is moved towards the flat phantom:



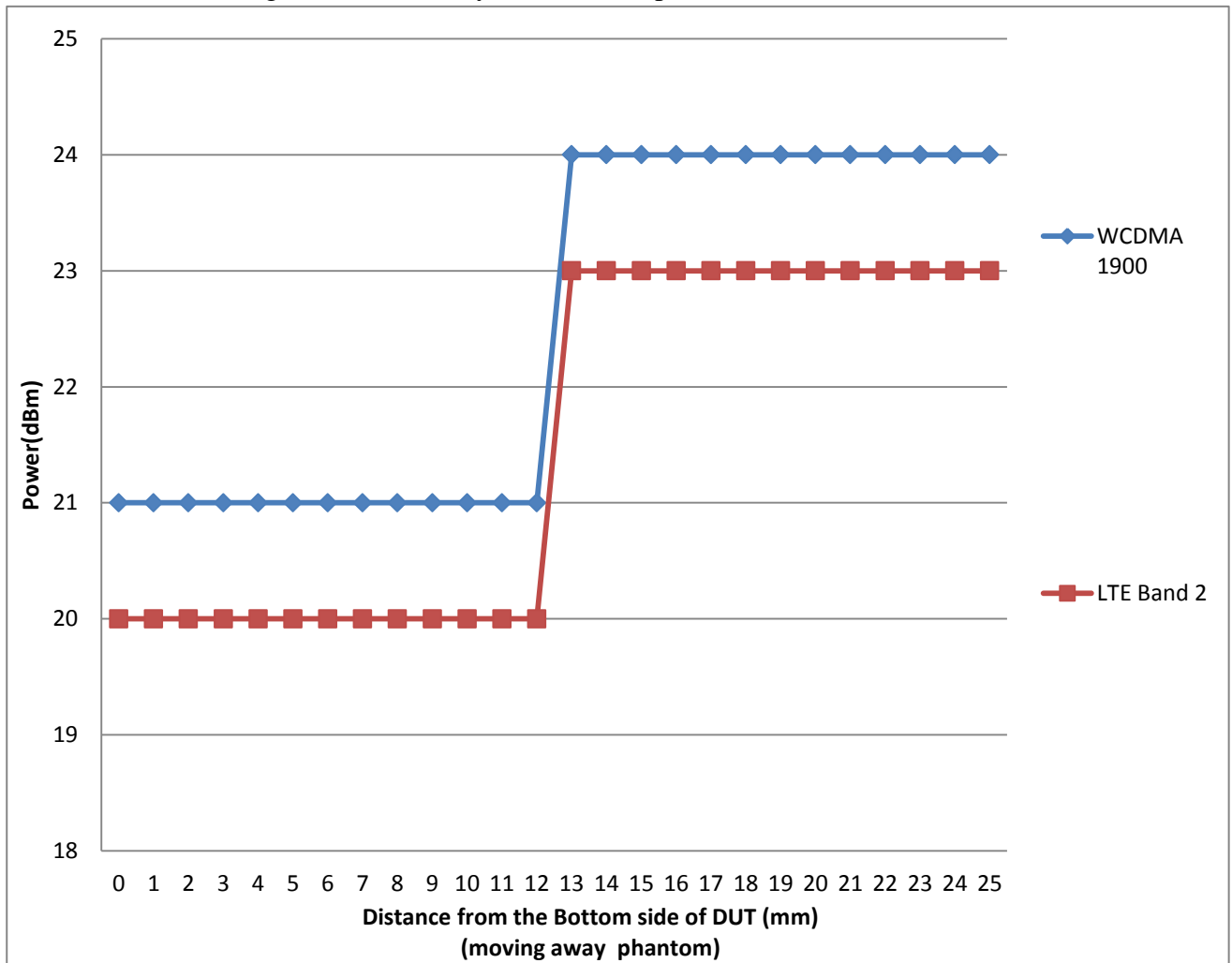
The DUT (Back edge) is moved away from the flat phantom:



The DUT (Bottom edge) is moved towards the flat phantom:



The DUT (Bottom edge) is moved away from the flat phantom:





Note:

1. SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.
2. When the distance between the phantom and EUT is equal to or less than the detection threshold distance, the proximity sensor will be trigger, and the conducted power will be reduced. When the distance between the phantom and EUT is greater than the detection threshold distance, the proximity sensor will be not trigger, and the DUT is in the full power transmit.



8. Conducted RF Output Power

8.1 WCDMA Conducted output Power

UMTS850 (Band V) ANT 2		Averaged output Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	22.59	22.31	22.47
HSDPA	Subtest 1	21.24	21.32	21.50
	Subtest 2	21.44	21.48	21.46
	Subtest 3	21.93	21.73	21.77
	Subtest 4	21.25	21.16	21.28
HSUPA	Subtest 1	21.56	21.42	21.76
	Subtest 2	20.80	20.77	21.06
	Subtest 3	21.70	21.53	21.65
	Subtest 4	21.37	21.41	21.37
	Subtest 5	21.22	21.53	21.45
UMTS850 (Band V) ANT 3		Averaged output Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	22.76	22.51	22.63
HSDPA	Subtest 1	21.82	21.66	21.61
	Subtest 2	20.97	20.67	20.84
	Subtest 3	21.70	21.75	21.45
	Subtest 4	20.96	21.04	21.15
HSUPA	Subtest 1	21.09	21.12	21.32
	Subtest 2	21.03	22.01	21.01
	Subtest 3	21.03	20.94	21.10
	Subtest 4	21.19	21.06	21.03
	Subtest 5	20.70	20.63	20.74
UMTS1700 (Band IV) ANT 2		Averaged output Power (dBm)		
		1312CH	1413CH	1513CH
		882.4	897.6	912.6
WCDMA	12.2kbps RMC	22.81	22.82	22.92
HSDPA	Subtest 1	21.59	21.79	21.81
	Subtest 2	21.21	21.57	21.48
	Subtest 3	21.07	21.17	21.39
	Subtest 4	21.02	20.93	21.14
HSUPA	Subtest 1	21.03	21.12	21.48
	Subtest 2	21.00	20.98	21.29
	Subtest 3	21.80	21.63	21.68
	Subtest 4	21.64	21.87	21.58
	Subtest 5	21.40	21.57	21.67



UMTS1700 (Band IV) ANT 3		Averaged output Power (dBm)		
		1312CH	1413CH	1513CH
		882.4	897.6	912.6
WCDMA	12.2kbps RMC	22.15	22.20	22.32
HSDPA	Subtest 1	20.69	20.88	20.73
	Subtest 2	21.39	21.20	21.11
	Subtest 3	20.36	20.50	20.28
	Subtest 4	21.08	21.24	21.18
HSUPA	Subtest 1	20.91	21.03	21.05
	Subtest 2	21.29	21.18	21.25
	Subtest 3	20.35	20.32	20.19
	Subtest 4	20.74	20.87	20.83
	Subtest 5	20.63	20.52	20.74
UMTS1900 (Band II) ANT 2		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	23.07	22.99	22.88
HSDPA	Subtest 1	21.74	21.99	22.62
	Subtest 2	21.69	21.78	22.49
	Subtest 3	21.65	21.71	22.43
	Subtest 4	22.05	21.90	22.25
HSUPA	Subtest 1	22.23	21.83	21.72
	Subtest 2	22.06	22.24	22.08
	Subtest 3	21.98	22.43	22.12
	Subtest 4	21.72	21.87	21.91
	Subtest 5	21.87	22.23	22.15
UMTS1900 (Band II) ANT 3		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	22.52	22.50	22.46
HSDPA	Subtest 1	21.54	21.43	21.28
	Subtest 2	20.97	21.04	21.00
	Subtest 3	21.48	21.52	21.45
	Subtest 4	20.41	20.36	20.70
HSUPA	Subtest 1	20.73	20.71	20.59
	Subtest 2	21.58	21.76	21.66
	Subtest 3	21.37	21.51	21.22
	Subtest 4	20.62	20.50	21.52
	Subtest 5	20.51	20.75	20.55



UMTS1900 (Band II) ANT 3 P-Sensor ON		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	19.72	19.77	19.68
HSDPA	Subtest 1	18.96	18.99	19.01
	Subtest 2	18.84	18.84	18.80
	Subtest 3	18.91	19.02	18.59
	Subtest 4	18.60	18.93	18.98
HSUPA	Subtest 1	18.78	18.73	18.97
	Subtest 2	19.02	18.69	18.82
	Subtest 3	18.76	18.88	18.87
	Subtest 4	18.80	18.96	18.84
	Subtest 5	18.86	18.60	18.88

Note:

1. WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01.HSPA SAR was not requires since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg.
2. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

8.2 LTE Conducted peak output Power

LTE Test Configurations

The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all frames.

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction(MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth configuration [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
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

3) A-MPR LTE procedures for SAR testing

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of “NS_01” on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test

requirements i) 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 1RB 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.



1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2 ANT 2				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	24.38	24.19	24.15	24.0±1.0
		1	3	24.28	24.21	24.10	
		1	5	24.21	24.06	24.08	
		3	0	23.11	23.21	23.18	22.5±1.0
		3	2	23.14	23.20	23.15	
		3	3	23.19	23.11	23.08	
	6	0	23.22	23.13	23.09	22.5±1.0	
	16QAM	1	0	23.32	23.23	23.07	23.0±1.0
		1	3	23.43	23.25	23.21	
		1	5	23.34	23.27	23.16	
		3	0	22.16	22.14	22.06	22.0±1.0
		3	2	22.13	22.15	21.95	
		3	3	22.08	22.09	22.13	
		6	0	22.31	22.18	22.03	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	24.39	24.06	24.22	24.0±1.0
		1	7	24.17	24.17	24.30	
		1	14	24.23	24.06	24.17	
		8	0	23.16	23.25	23.18	23.0±1.0
		8	4	23.12	23.23	23.04	
		8	7	23.07	23.18	23.09	
		15	0	23.09	23.22	22.91	
	16QAM	1	0	23.16	23.47	22.76	23.0±1.0
		1	7	23.21	23.36	22.91	
		1	14	23.19	23.30	22.85	
		8	0	22.17	22.32	22.08	22.0±1.0
		8	4	22.14	22.13	22.09	
		8	7	22.04	22.27	22.11	
		15	0	22.13	22.26	22.02	



LTE FDD Band 2 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	24.22	24.09	24.35	24.0±1.0
		1	13	24.04	24.34	23.97	
		1	24	24.31	24.18	24.13	
		12	0	23.25	23.33	23.12	23.0±1.0
		12	6	23.27	23.29	23.21	
		12	13	23.31	23.25	23.05	
	25	0	23.32	23.23	23.09	23.0±1.0	
	16QAM	1	0	22.98	23.02	23.05	23.0±1.0
		1	13	23.12	23.28	23.17	
		1	24	23.09	23.04	23.09	
		12	0	22.24	22.29	22.20	22.0±1.0
		12	6	22.36	22.30	22.25	
		12	13	22.28	22.23	22.08	
		25	0	22.34	22.27	22.06	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	24.20	24.03	24.26	24.0±1.0
		1	25	24.16	24.32	24.09	
		1	49	23.96	24.11	24.17	
		25	0	23.18	23.13	23.19	22.5±1.0
		25	13	23.20	23.13	22.93	
		25	25	23.15	23.16	23.07	
		50	0	23.13	23.17	23.01	22.5±1.0
	16QAM	1	0	23.51	23.37	23.26	23.0±1.0
		1	25	23.58	23.45	23.49	
		1	49	23.39	23.29	23.19	
		25	0	22.32	22.17	22.25	22.0±1.0
		25	13	22.37	22.18	22.08	
		25	25	22.24	22.18	22.17	
		50	0	22.10	22.14	22.06	21.5±1.0



LTE FDD Band 2 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	24.20	24.11	24.29	24.0±1.0
		1	38	24.05	24.27	24.08	
		1	74	24.10	24.14	24.04	
		36	0	23.03	23.14	22.96	23.0±1.0
		36	18	23.02	23.26	22.86	
		36	39	23.16	23.07	23.08	
		75	0	23.01	23.12	22.94	22.5±1.0
	16QAM	1	0	23.41	23.34	23.26	23.0±1.0
		1	38	23.27	23.54	23.33	
		1	74	23.30	23.47	23.41	
		36	0	22.17	22.31	22.16	22.0±1.0
		36	18	22.25	22.25	22.22	
		36	39	22.34	22.09	22.19	
		75	0	22.20	22.22	22.04	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	24.27	24.31	24.19	24.0±1.0
		1	50	24.07	24.10	24.07	
		1	99	24.34	24.21	24.14	
		50	0	23.26	23.22	23.07	22.5±1.0
		50	25	23.16	23.23	23.19	
		50	50	23.07	23.14	23.10	
		100	0	23.14	23.09	23.00	22.5±1.0
	16QAM	1	0	23.26	23.31	23.37	23.0±1.0
		1	50	23.37	23.35	23.20	
		1	99	23.58	23.46	23.29	
		50	0	22.15	22.22	22.04	22.0±1.0
		50	25	22.13	22.22	22.00	
		50	50	22.25	22.13	21.90	
		100	0	22.15	22.23	22.06	21.5±1.0



LTE FDD Band 2 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.25	23.26	23.17	23.0±1.0
		1	3	23.04	23.09	23.14	
		1	5	23.18	23.13	23.08	
		3	0	22.12	22.04	22.16	21.5±1.0
		3	2	22.01	22.23	22.14	
		3	3	22.12	22.15	22.07	
	6	0	21.95	22.12	22.01	21.5±1.0	
	16QAM	1	0	22.16	22.21	22.25	22.0±1.0
		1	3	22.22	22.31	22.18	
		1	5	22.06	22.27	22.12	
		3	0	21.02	21.18	21.22	20.5±1.0
		3	2	21.08	21.09	21.06	
		3	3	21.15	21.04	21.17	
		6	0	21.01	20.93	21.18	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	23.23	23.12	23.18	23.0±1.0
		1	7	23.27	23.33	23.14	
		1	14	23.24	23.16	23.06	
		8	0	22.29	22.23	22.18	22.0±1.0
		8	4	22.31	22.33	22.14	
		8	7	22.23	22.18	22.06	
		15	0	22.20	22.12	22.01	21.5±1.0
	16QAM	1	0	22.22	22.29	22.14	22.0±1.0
		1	7	22.37	22.26	22.27	
		1	14	22.35	22.12	22.23	
		8	0	21.22	21.11	21.07	20.5±1.0
		8	4	21.23	21.18	21.10	
		8	7	21.16	21.14	21.00	
		15	0	21.14	21.03	20.99	20.5±1.0



LTE FDD Band 2 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.26	23.17	23.30	23.0±1.0
		1	13	23.33	23.29	23.18	
		1	24	23.19	23.14	23.37	
		12	0	22.29	22.36	22.35	22.0±1.0
		12	6	22.18	22.39	22.38	
		12	13	22.21	22.33	22.21	
	25	0	22.13	22.28	22.24	22.0±1.0	
	16QAM	1	0	22.27	22.16	22.13	22.0±1.0
		1	13	22.35	22.27	22.23	
		1	24	22.29	22.19	22.18	
		12	0	21.34	21.32	21.31	21.0±1.0
		12	6	21.27	21.14	21.23	
		12	13	21.24	21.23	21.27	
		25	0	21.21	21.13	21.24	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.31	23.37	23.48	23.0±1.0
		1	25	23.12	23.48	23.35	
		1	49	23.20	23.01	23.12	
		25	0	22.14	22.23	22.23	22.0±1.0
		25	13	22.19	22.36	22.25	
		25	25	22.21	22.16	22.18	
		50	0	22.09	22.20	22.43	22.0±1.0
	16QAM	1	0	22.23	22.18	22.09	22.0±1.0
		1	25	22.17	22.19	22.34	
		1	49	22.19	22.25	22.15	
		25	0	21.27	21.22	21.34	21.0±1.0
		25	13	21.14	21.30	21.23	
		25	25	21.34	21.32	21.29	
		50	0	21.22	21.26	21.20	21.0±1.0



LTE FDD Band 2 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.28	23.45	23.29	23.0±1.0
		1	38	23.13	23.33	23.27	
		1	74	23.16	23.29	23.20	
		36	0	22.26	22.25	22.24	22.0±1.0
		36	18	22.24	22.31	22.18	
		36	39	22.30	22.17	22.10	
	75	0	22.26	22.16	22.09	22.0±1.0	
	16QAM	1	0	22.31	22.23	22.19	22.0±1.0
		1	38	22.18	22.19	22.25	
		1	74	22.26	22.34	22.18	
		36	0	21.14	21.19	21.20	21.0±1.0
		36	18	21.17	21.21	21.12	
		36	39	21.29	21.15	21.17	
		75	0	21.16	21.10	21.04	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	23.32	23.22	23.34	23.0±1.0
		1	50	23.15	23.31	23.21	
		1	99	23.24	23.27	23.19	
		50	0	22.38	22.21	22.33	22.0±1.0
		50	25	22.37	22.36	22.34	
		50	50	22.30	22.35	22.29	
		100	0	22.17	22.22	22.27	22.0±1.0
	16QAM	1	0	22.26	22.30	22.24	22.0±1.0
		1	50	22.38	22.39	22.31	
		1	99	22.36	22.24	22.21	
		50	0	21.34	21.25	21.31	21.0±1.0
		50	25	21.35	21.19	21.37	
		50	50	21.30	21.31	21.36	
		100	0	21.27	21.25	21.24	21.0±1.0



LTE FDD Band 2 ANT 3 P-Sensor ON				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				18607/1850.7	18900/1880	19193/1909.3				
1.4MHz	QPSK	1	0	20.27	20.35	20.22	20.0±1.0			
		1	3	20.14	20.27	20.25				
		1	5	20.20	20.36	20.37				
		3	0	20.10	20.11	20.03	19.5±1.0			
		3	2	20.09	20.07	20.14				
		3	3	20.10	20.13	20.03				
	16QAM	16QAM	6	0	19.99	20.05	20.03	19.5±1.0		
			1	0	19.92	20.23	20.11	20.0±1.0		
			1	3	20.08	20.27	20.14			
			1	5	19.96	20.30	20.12			
			3	0	20.02	20.04	20.05	19.5±1.0		
			3	2	20.11	20.08	19.93			
			3	3	20.00	20.11	19.97			
			6	0	20.05	20.08	20.05	19.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				18615/1851.5	18900/1880	19185/1908.5				
3MHz	QPSK	1	0	20.21	20.23	20.19	20.0±1.0			
		1	7	20.21	20.26	20.23				
		1	14	20.19	20.21	20.15				
		16QAM	16QAM	8	0	20.11	20.09	20.04	19.5±1.0	
				8	4	20.16	20.09	20.12		
				8	7	20.08	20.21	20.18		
				15	0	20.05	20.09	20.12	19.5±1.0	
	16QAM			16QAM	1	0	20.16	20.13	20.27	20.0±1.0
					1	7	20.27	20.34	20.16	
					1	14	20.16	20.26	20.22	
		8	0		20.16	20.11	20.14	19.5±1.0		
		8	4		20.15	20.03	20.18			
		8	7		20.01	20.15	20.06			
	15	0	20.16	20.13	20.09	19.5±1.0				



LTE FDD Band 2 ANT 3 P-Sensor ON				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	20.26	20.40	20.26	20.0±1.0
		1	13	20.32	20.28	20.33	
		1	24	20.20	20.26	20.21	
		12	0	20.12	20.27	20.19	20.0±1.0
		12	6	20.14	20.19	20.18	
		12	13	20.06	20.04	20.10	
	16QAM	25	0	20.09	20.10	20.15	19.5±1.0
		1	0	20.14	20.04	20.06	19.5±1.0
		1	13	20.21	20.33	20.23	
		1	24	20.06	20.18	20.09	
		12	0	20.16	20.13	20.16	19.5±1.0
		12	6	20.13	20.12	20.10	
		12	13	20.10	20.01	20.10	
		25	0	20.01	20.04	20.10	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	20.24	20.22	20.34	20.0±1.0
		1	25	20.19	20.18	20.31	
		1	49	20.16	20.21	20.22	
		25	0	20.11	20.06	20.10	19.5±1.0
		25	13	20.12	20.06	20.05	
		25	25	20.01	20.05	20.05	
		50	0	20.11	20.03	20.09	
	16QAM	1	0	20.23	20.23	20.21	20.0±1.0
		1	25	20.32	20.27	20.22	
		1	49	20.27	20.29	20.12	
		25	0	20.08	20.13	20.11	19.5±1.0
		25	13	20.15	20.13	20.13	
		25	25	20.13	20.14	20.10	
		50	0	20.06	20.04	20.03	



LTE FDD Band 2 ANT 3 P-Sensor ON				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	20.19	20.20	20.17	20.0±1.0
		1	38	20.24	20.29	20.21	
		1	74	20.15	20.16	20.25	
		36	0	20.09	20.01	20.17	19.5±1.0
		36	18	20.11	20.10	20.14	
		36	39	20.04	20.09	20.14	
		75	0	20.01	20.07	20.12	19.5±1.0
	16QAM	1	0	20.23	20.21	20.11	20.0±1.0
		1	38	20.15	20.26	20.23	
		1	74	20.21	20.20	20.08	
		36	0	20.13	20.10	20.11	19.5±1.0
		36	18	20.08	20.05	20.04	
		36	39	20.04	20.12	20.13	
		75	0	20.03	20.09	20.07	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	20.28	20.33	20.41	20.0±1.0
		1	50	20.29	20.45	20.25	
		1	99	20.20	20.49	20.25	
		50	0	20.17	20.24	20.19	19.5±1.0
		50	25	20.17	20.21	20.17	
		50	50	20.07	20.09	20.04	
		100	0	20.07	20.06	20.14	19.5±1.0
	16QAM	1	0	20.16	20.18	20.17	20.0±1.0
		1	50	20.23	20.17	20.12	
		1	99	20.31	20.24	20.21	
		50	0	20.17	20.09	20.08	19.5±1.0
		50	25	20.08	20.14	20.09	
		50	50	20.07	20.20	20.12	
		100	0	20.04	20.09	20.03	19.5±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4 ANT 2				Conducted Power(dBm)			Tune up		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency					
				19957/1710.7	20175/1732.5	20393/1754.3			
1.4MHz	QPSK	1	0	23.94	23.74	23.83	23.5±1.0		
		1	3	23.86	23.59	23.63			
		1	5	23.80	23.64	23.47			
		3	0	22.56	22.43	22.53	22.0±1.0		
		3	2	22.43	22.46	22.48			
		3	3	22.58	22.34	22.48			
	16QAM	16QAM	6	0	22.26	22.49	22.41	22.0±1.0	
			1	0	22.85	22.60	22.58	22.5±1.0	
			1	3	22.61	22.76	22.76		
			1	5	22.68	22.57	22.61		
			3	0	21.75	21.57	21.38	21.5±1.0	
			3	2	21.84	21.64	21.61		
			3	3	21.71	21.61	21.66		
			6	0	21.63	21.54	21.51	21.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up		
				19965/1711.5	20175/1732.5	20385/1753.5			
3MHz	QPSK	1	0	23.75	23.85	23.94	23.5±1.0		
		1	7	23.52	23.68	23.60			
		1	14	23.74	23.49	23.86			
		16QAM	16QAM	8	0	22.54	22.67	22.65	22.0±1.0
				8	4	22.52	22.62	22.70	
				8	7	22.48	22.58	22.62	
				15	0	22.66	22.61	22.63	22.0±1.0
	1			0	22.80	22.91	22.87	22.5±1.0	
	1			7	22.96	22.96	22.94		
	1	14	22.85	22.92	22.74				
	16QAM	16QAM	8	0	21.74	21.82	21.67	21.5±1.0	
			8	4	21.71	21.82	21.65		
			8	7	21.74	21.77	21.60		
			15	0	21.77	21.74	21.64	21.5±1.0	



LTE FDD Band 4 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.77	23.86	23.91	23.5±1.0
		1	13	23.58	23.63	23.74	
		1	24	23.69	23.79	23.85	
		12	0	22.78	22.70	22.60	22.5±1.0
		12	6	22.77	22.67	22.62	
		12	13	22.68	22.62	22.54	
	25	0	22.64	22.60	22.61	22.0±1.0	
	16QAM	1	0	22.75	22.89	22.64	22.5±1.0
		1	13	22.83	22.94	22.86	
		1	24	22.40	22.72	22.72	
		12	0	21.75	21.69	21.67	21.5±1.0
		12	6	21.74	21.69	21.67	
		12	13	21.58	21.61	21.61	
		25	0	21.66	21.67	21.65	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	23.76	23.87	23.92	23.5±1.0
		1	25	23.58	23.92	23.64	
		1	49	23.84	23.62	23.57	
		25	0	22.63	22.68	22.72	22.0±1.0
		25	13	22.64	22.67	22.69	
		25	25	22.70	22.51	22.69	
		50	0	22.43	22.48	22.57	22.0±1.0
	16QAM	1	0	22.97	22.96	23.04	22.5±1.0
		1	25	22.94	23.02	22.92	
		1	49	22.90	22.86	22.81	
		25	0	21.68	21.76	21.77	21.5±1.0
		25	13	21.70	21.73	21.78	
		25	25	21.68	21.56	21.79	
		50	0	21.66	21.69	21.71	21.0±1.0



LTE FDD Band 4 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.97	23.86	23.78	23.5±1.0
		1	38	23.69	23.69	23.89	
		1	74	23.80	23.44	23.68	
		36	0	22.82	22.76	22.83	22.5±1.0
		36	18	22.75	22.81	22.79	
		36	39	22.89	22.68	22.61	
		75	0	22.62	22.59	22.46	22.0±1.0
	16QAM	1	0	22.93	22.92	22.83	22.5±1.0
		1	38	22.80	22.76	23.80	
		1	74	22.75	22.81	22.71	
		36	0	21.75	21.63	21.65	21.5±1.0
		36	18	21.69	21.75	21.85	
		36	39	21.83	21.70	21.82	
		75	0	21.64	21.52	21.58	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.87	23.74	23.83	23.5±1.0
		1	50	23.62	23.77	23.74	
		1	99	23.75	23.65	23.50	
		50	0	22.69	22.63	22.62	22.5±1.0
		50	25	22.75	22.79	22.65	
		50	50	22.55	22.54	22.51	
		100	0	22.68	22.51	22.54	22.0±1.0
	16QAM	1	0	22.92	22.74	22.71	22.5±1.0
		1	50	22.73	22.76	22.76	
		1	99	22.88	22.78	22.80	
		50	0	21.59	21.66	21.48	21.0±1.0
		50	25	21.57	21.48	21.50	
		50	50	21.56	21.64	21.54	
		100	0	21.69	21.61	21.55	21.0±1.0



LTE FDD Band 4 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.23	22.37	22.30	22.0±1.0
		1	3	22.26	22.41	22.25	
		1	5	22.31	22.32	22.34	
		3	0	21.24	21.38	21.29	21.0±1.0
		3	2	21.30	21.35	21.26	
		3	3	21.32	21.26	21.18	
		6	0	21.21	21.24	21.13	21.0±1.0
	16QAM	1	0	21.36	21.47	21.46	21.0±1.0
		1	3	21.37	21.45	21.47	
		1	5	21.41	21.35	21.51	
		3	0	20.37	20.31	20.41	20.0±1.0
		3	2	20.33	20.23	20.45	
		3	3	20.34	20.20	20.49	
		6	0	20.38	20.26	20.44	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.43	22.21	22.41	22.0±1.0
		1	7	22.36	22.28	22.38	
		1	14	22.30	22.22	22.29	
		8	0	21.30	21.36	21.43	21.0±1.0
		8	4	21.30	21.32	21.38	
		8	7	21.35	21.28	21.33	
		15	0	21.24	21.28	21.41	21.0±1.0
	16QAM	1	0	21.32	21.27	21.42	21.0±1.0
		1	7	21.24	21.43	21.51	
		1	14	21.29	21.31	21.46	
		8	0	20.41	20.54	20.40	20.0±1.0
		8	4	20.39	20.53	20.41	
		8	7	20.45	20.47	20.32	
		15	0	20.35	20.36	20.31	20.0±1.0



LTE FDD Band 4 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.27	22.25	22.27	22.0±1.0
		1	13	22.31	22.37	22.44	
		1	24	22.32	22.25	22.35	
		12	0	21.38	21.35	21.35	21.0±1.0
		12	6	21.41	21.30	21.26	
		12	13	21.25	21.32	21.30	
		25	0	21.30	21.27	21.27	21.0±1.0
	16QAM	1	0	21.26	21.25	21.21	21.0±1.0
		1	13	21.19	21.32	21.32	
		1	24	21.32	21.19	21.27	
		12	0	20.44	20.44	20.39	20.0±1.0
		12	6	20.42	20.40	20.41	
		12	13	20.27	20.37	20.36	
		25	0	20.33	20.39	20.34	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	22.32	22.49	22.45	22.0±1.0
		1	25	22.40	22.45	22.44	
		1	49	22.28	22.25	22.32	
		25	0	21.35	21.31	21.43	21.0±1.0
		25	13	21.30	21.35	21.41	
		25	25	21.37	21.43	21.41	
		50	0	21.25	21.36	21.31	21.0±1.0
	16QAM	1	0	21.45	21.28	21.38	21.0±1.0
		1	25	21.21	21.43	21.41	
		1	49	21.35	21.37	21.33	
		25	0	20.35	20.39	20.49	20.0±1.0
		25	13	20.39	20.40	20.48	
		25	25	20.41	20.50	20.47	
		50	0	20.28	20.41	20.41	20.0±1.0



LTE FDD Band 4 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.42	22.34	22.38	22.0±1.0
		1	38	22.27	22.29	22.39	
		1	74	22.35	22.28	22.25	
		36	0	21.37	21.26	21.35	21.0±1.0
		36	18	21.29	21.37	21.24	
		36	39	21.21	21.29	21.42	
		75	0	21.20	21.15	21.24	20.5±1.0
	16QAM	1	0	21.40	21.28	21.33	21.0±1.0
		1	38	21.47	21.35	21.40	
		1	74	21.38	21.16	21.25	
		36	0	20.27	20.30	20.23	20.0±1.0
		36	18	20.31	20.25	20.20	
		36	39	20.40	20.34	20.32	
		75	0	20.30	20.23	20.26	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.31	22.37	22.31	22.0±1.0
		1	50	22.45	22.34	22.33	
		1	99	22.37	22.26	22.37	
		50	0	21.30	21.32	21.34	21.0±1.0
		50	25	21.25	21.35	21.30	
		50	50	21.38	21.38	21.38	
		100	0	21.27	21.21	21.27	21.0±1.0
	16QAM	1	0	21.29	21.27	21.29	21.0±1.0
		1	50	21.32	21.36	21.32	
		1	99	21.38	21.31	21.40	
		50	0	20.35	20.32	20.35	20.0±1.0
		50	25	20.43	20.38	20.33	
		50	50	20.41	20.41	20.41	
		100	0	20.22	20.31	20.24	20.0±1.0



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5 ANT 2				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	24.07	24.03	23.98	23.5±1.0
		1	3	24.16	24.11	23.83	
		1	5	24.12	24.17	24.01	
		3	0	23.13	23.09	23.15	22.5±1.0
		3	2	23.12	23.12	23.16	
		3	3	23.05	23.11	23.21	
	16QAM	6	0	23.01	23.11	23.14	22.5±1.0
		1	0	23.23	23.18	23.08	23.0±1.0
		1	3	23.24	23.22	22.87	
		1	5	23.30	23.30	23.06	
		3	0	22.19	22.04	22.13	21.5±1.0
		3	2	22.18	22.02	22.13	
3	3	22.11	22.05	22.20			
6	0	22.03	22.02	22.15	21.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.06	24.09	24.03	23.5±1.0
		1	7	24.13	24.08	23.82	
		1	14	24.09	24.11	23.86	
		8	0	23.07	23.15	23.17	22.5±1.0
		8	4	23.05	23.16	23.04	
		8	7	23.11	23.19	23.18	
	16QAM	15	0	23.06	23.19	23.07	22.5±1.0
		1	0	23.20	23.19	23.15	22.5±1.0
		1	7	23.17	23.18	23.02	
		1	14	23.16	23.21	23.10	
		8	0	22.05	22.13	22.12	21.5±1.0
		8	4	22.05	22.24	22.16	
8	7	22.01	22.26	22.17			
15	0	22.03	22.17	22.16	21.5±1.0		



LTE FDD Band 5 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.09	23.93	23.92	23.5±1.0
		1	13	24.12	24.04	23.78	
		1	24	24.10	24.13	23.79	
		12	0	23.17	23.17	23.19	23.0±1.0
		12	6	23.18	23.16	23.15	
		12	13	23.23	23.14	23.29	
	25	0	23.15	23.11	23.22	22.5±1.0	
	16QAM	1	0	23.04	22.92	22.92	22.5±1.0
		1	13	22.99	22.97	22.78	
		1	24	23.05	22.99	22.80	
		12	0	22.17	22.10	22.14	21.5±1.0
		12	6	22.16	22.09	22.13	
		12	13	22.06	22.07	22.06	
	25	0	22.05	22.08	22.15	21.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	24.37	24.34	24.08	24.0±1.0
		1	25	24.20	24.17	24.29	
		1	49	24.11	24.06	23.96	
		25	0	23.20	23.14	23.19	23.0±1.0
		25	13	23.17	23.16	23.19	
		25	25	23.29	23.26	23.33	
	50	0	23.20	23.25	23.13	23.0±1.0	
	16QAM	1	0	23.26	22.92	23.14	23.0±1.0
		1	25	23.02	23.09	23.27	
		1	49	23.04	23.19	23.29	
		25	0	22.17	22.10	22.19	22.0±1.0
		25	13	22.16	22.12	22.18	
		25	25	22.26	22.29	22.29	
	50	0	22.14	22.17	22.23	21.5±1.0	



LTE FDD Band 5 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.79	23.73	23.80	23.5±1.0
		1	3	23.73	23.72	23.56	
		1	5	23.77	23.83	23.71	
		3	0	22.82	22.82	22.68	22.5±1.0
		3	2	22.84	22.83	22.61	
		3	3	22.76	22.87	22.79	
	6	0	22.72	22.79	22.62	22.5±1.0	
	16QAM	1	0	22.83	22.76	22.85	22.5±1.0
		1	3	22.75	22.78	22.80	
		1	5	22.83	22.86	22.87	
		3	0	21.77	21.75	21.66	21.5±1.0
		3	2	21.72	21.71	21.65	
		3	3	21.75	21.87	21.74	
	6	0	21.68	21.77	21.87	21.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	23.82	23.96	23.74	23.5±1.0
		1	7	23.65	23.80	23.79	
		1	14	23.81	24.01	23.63	
		8	0	22.68	22.88	22.79	22.5±1.0
		8	4	22.84	22.71	22.85	
		8	7	22.79	22.89	22.71	
	15	0	22.70	22.76	22.75	22.5±1.0	
	16QAM	1	0	22.72	22.72	22.80	22.5±1.0
		1	7	22.80	22.76	22.72	
		1	14	22.83	22.85	22.70	
		8	0	21.72	21.75	21.76	21.5±1.0
		8	4	21.66	21.69	21.80	
		8	7	21.60	21.71	21.69	
	15	0	21.59	21.65	21.68	21.0±1.0	



LTE FDD Band 5 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	23.76	23.77	23.82	23.5±1.0
		1	13	23.88	23.86	23.87	
		1	24	23.79	24.08	23.76	
		12	0	22.81	22.84	22.75	22.5±1.0
		12	6	22.72	22.82	22.77	
		12	13	22.85	22.89	22.83	
	25	0	22.76	22.74	22.75	22.5±1.0	
	16QAM	1	0	22.82	22.82	22.84	22.5±1.0
		1	13	22.75	22.78	22.74	
		1	24	22.79	22.89	22.75	
		12	0	21.84	21.86	21.78	21.5±1.0
		12	6	21.86	21.90	21.86	
		12	13	21.75	21.79	21.81	
	25	0	21.72	21.71	21.77	21.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	24.07	23.86	23.91	23.5±1.0
		1	25	23.88	23.94	23.76	
		1	49	23.73	23.93	23.83	
		25	0	22.72	22.78	22.93	22.5±1.0
		25	13	22.84	22.89	22.90	
		25	25	22.79	22.91	22.85	
	50	0	22.72	22.82	22.84	22.5±1.0	
	16QAM	1	0	22.82	22.82	22.87	22.5±1.0
		1	25	22.75	22.94	22.84	
		1	49	22.86	22.85	22.79	
		25	0	21.80	21.89	21.92	21.5±1.0
		25	13	21.84	21.88	21.94	
		25	25	21.91	21.90	21.86	
	50	0	21.82	21.78	21.89	21.5±1.0	



4. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.65	23.78	23.68	23.5±1.0
		1	3	23.55	23.64	23.62	
		1	5	23.52	23.75	23.69	
		3	0	22.50	22.69	22.69	22.0±1.0
		3	2	22.64	22.65	22.67	
		3	3	22.55	22.62	22.66	
	6	0	22.49	22.63	22.54	22.0±1.0	
	16QAM	1	0	22.59	22.75	22.63	22.5±1.0
		1	3	22.64	22.68	22.67	
		1	5	22.64	22.87	22.79	
		3	0	21.54	21.67	21.73	21.5±1.0
		3	2	21.63	21.68	21.75	
		3	3	21.47	21.71	21.71	
	6	0	21.55	21.69	21.74	21.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.75	23.69	23.68	23.5±1.0
		1	7	23.56	23.78	23.77	
		1	14	23.62	23.61	23.67	
		8	0	22.62	22.69	22.71	22.0±1.0
		8	4	22.59	22.70	22.73	
		8	7	22.58	22.73	22.74	
	15	0	22.53	22.69	22.70	22.0±1.0	
	16QAM	1	0	22.85	22.91	22.76	22.5±1.0
		1	7	22.90	23.04	22.80	
		1	14	22.78	22.86	22.63	
		8	0	21.82	21.85	21.74	21.5±1.0
		8	4	21.82	21.87	21.80	
		8	7	21.78	21.90	21.76	
	15	0	21.75	21.78	21.69	21.5±1.0	



LTE FDD Band 12 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.82	23.63	23.83	23.5±1.0
		1	13	23.72	23.70	23.89	
		1	24	23.71	23.82	23.74	
		12	0	22.60	22.68	22.85	22.5±1.0
		12	6	22.62	22.65	22.77	
		12	13	22.72	22.63	22.83	
		25	0	22.69	22.58	22.64	22.0±1.0
	16QAM	1	0	22.77	22.65	22.59	22.5±1.0
		1	13	22.68	22.58	22.78	
		1	24	22.54	22.73	22.66	
		12	0	21.72	21.65	21.79	21.5±1.0
		12	6	21.72	21.67	21.79	
		12	13	21.77	21.68	21.65	
		25	0	21.59	21.62	21.51	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	23.85	23.92	23.86	23.5±1.0
		1	25	23.85	23.88	23.93	
		1	49	23.76	23.73	23.69	
		25	0	22.78	22.74	22.73	22.5±1.0
		25	13	22.81	22.70	22.75	
		25	25	22.85	22.71	22.65	
		50	0	22.69	22.65	22.61	22.0±1.0
	16QAM	1	0	22.91	22.86	22.89	22.5±1.0
		1	25	23.04	22.94	23.07	
		1	49	22.89	22.83	22.87	
		25	0	21.85	21.82	21.78	21.5±1.0
		25	13	21.84	21.80	21.85	
		25	25	21.91	21.72	21.72	
		50	0	21.81	21.70	21.81	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	23060/704	23095/707.5	23130/711	Tune up



LTE FDD Band 12 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.43	23.60	23.52	23.0±1.0
		1	3	23.51	23.46	23.43	
		1	5	23.31	23.55	23.49	
		3	0	22.29	22.48	22.49	22.0±1.0
		3	2	22.28	22.49	22.48	
		3	3	22.36	22.46	22.41	
	6	0	22.31	22.37	22.42	22.0±1.0	
	16QAM	1	0	22.47	22.56	22.45	22.0±1.0
		1	3	22.41	22.52	22.51	
		1	5	22.53	22.66	22.60	
		3	0	21.32	21.51	21.53	21.0±1.0
		3	2	21.38	21.50	21.58	
		3	3	21.24	21.48	21.56	
	6	0	21.31	21.45	21.53	21.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	23.44	23.50	23.51	23.0±1.0
		1	7	23.47	23.60	23.63	
		1	14	23.51	23.53	23.54	
		8	0	22.41	22.56	22.48	22.0±1.0
		8	4	22.35	22.53	22.49	
		8	7	22.31	22.60	22.57	
		15	0	22.24	22.57	22.41	22.0±1.0
	16QAM	1	0	22.45	22.47	22.48	22.0±1.0
		1	7	22.47	22.56	22.58	
		1	14	22.51	22.61	22.51	
		8	0	21.42	21.39	21.45	21.0±1.0
		8	4	21.33	21.48	21.45	
		8	7	21.26	21.40	21.37	
		15	0	21.25	21.32	21.33	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	23025/700.5	23095/707.5	23165/714.5	Tune up



LTE FDD Band 12 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.44	23.47	23.40	23.0±1.0
		1	13	23.53	23.63	23.58	
		1	24	23.54	23.50	23.32	
		12	0	22.47	22.49	22.52	22.0±1.0
		12	6	22.48	22.54	22.57	
		12	13	22.54	22.47	22.51	
	16QAM	25	0	22.42	22.46	22.48	22.0±1.0
		1	0	22.49	22.48	22.57	22.0±1.0
		1	13	22.54	22.49	22.63	
		1	24	22.57	22.51	22.53	
		12	0	21.63	21.51	21.59	21.0±1.0
		12	6	21.52	21.47	21.58	
		12	13	21.60	21.47	21.47	
		25	0	21.53	21.49	21.45	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.64	23.52	23.38	23.0±1.0
		1	25	23.69	23.73	23.68	
		1	49	23.52	23.47	23.43	
		25	0	22.57	22.60	22.66	22.0±1.0
		25	13	22.66	22.59	22.67	
		25	25	22.69	22.52	22.50	
	16QAM	50	0	22.51	22.60	22.58	22.0±1.0
		1	0	22.71	22.52	22.49	22.0±1.0
		1	25	22.68	22.64	22.61	
		1	49	22.62	22.48	22.53	
		25	0	21.51	21.45	21.47	21.0±1.0
		25	13	21.57	21.40	21.50	
		25	25	21.48	21.56	21.56	
		50	0	21.52	21.43	21.49	21.0±1.0



5. LTE Band 66 Conducted Power Test Verdict:

LTE FDD Band 66 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131979/1710.7	132322/1745.0	132665/1779.3	
1.4MHz	QPSK	1	0	23.87	23.95	23.77	23.5±1.0
		1	3	23.90	23.87	23.84	
		1	5	23.81	24.02	23.86	
		3	0	22.84	22.71	22.93	22.5±1.0
		3	2	22.91	22.86	22.92	
		3	3	22.82	22.94	22.87	
		6	0	22.79	22.85	22.84	22.5±1.0
	16QAM	1	0	23.01	23.00	22.97	22.5±1.0
		1	3	22.92	23.10	22.97	
		1	5	22.96	23.16	23.08	
		3	0	22.02	21.97	22.17	21.5±1.0
		3	2	21.98	22.14	22.09	
		3	3	22.12	22.08	22.02	
		6	0	22.04	21.93	21.90	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	23.83	23.93	23.65	23.5±1.0
		1	7	23.77	23.80	23.85	
		1	14	23.61	23.85	23.77	
		8	0	22.87	22.85	22.83	22.5±1.0
		8	4	22.89	22.85	22.86	
		8	7	22.90	22.98	22.85	
		15	0	22.72	22.84	22.78	22.5±1.0
	16QAM	1	0	23.15	23.05	22.94	22.5±1.0
		1	7	23.07	22.94	23.15	
		1	14	23.05	22.95	23.06	
		8	0	22.07	22.05	21.95	21.5±1.0
		8	4	22.11	22.04	22.01	
		8	7	22.06	22.12	22.02	
		15	0	22.00	22.02	21.94	21.5±1.0



LTE FDD Band 66 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131997/1712.5	132322/1745.0	132647/1777.5	
5MHz	QPSK	1	0	23.83	23.78	23.90	23.5±1.0
		1	13	23.93	23.86	23.97	
		1	24	23.98	23.97	23.81	
		12	0	22.96	22.98	23.01	22.5±1.0
		12	6	22.96	22.93	23.01	
		12	13	22.93	23.00	22.92	
		25	0	22.89	22.92	22.87	22.5±1.0
	16QAM	1	0	22.78	22.80	22.87	22.5±1.0
		1	13	22.81	22.93	23.07	
		1	24	22.87	22.94	22.92	
		12	0	22.16	21.91	22.08	21.5±1.0
		12	6	22.09	21.90	22.07	
		12	13	22.00	21.93	21.96	
		25	0	22.00	21.81	21.97	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132022/1715	132322/1745.0	132622/1775	
10MHz	QPSK	1	0	24.14	24.02	24.18	23.5±1.0
		1	25	24.02	23.92	23.73	
		1	49	23.86	24.03	24.07	
		25	0	22.95	22.78	22.79	22.5±1.0
		25	13	22.93	22.83	22.87	
		25	25	23.02	22.98	22.99	
		50	0	22.93	22.88	22.90	22.5±1.0
	16QAM	1	0	22.91	23.12	23.17	22.5±1.0
		1	25	22.66	22.87	22.87	
		1	49	23.04	23.08	22.92	
		25	0	21.96	21.89	21.92	21.5±1.0
		25	13	21.97	21.88	21.95	
		25	25	22.18	22.14	22.08	
		50	0	22.04	21.96	22.00	21.5±1.0



LTE FDD Band 66 ANT 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132047/1717.5	132322/1745.0	132597/1772.5	
15MHz	QPSK	1	0	23.99	23.79	23.92	23.5±1.0
		1	38	23.92	23.58	24.01	
		1	74	23.70	23.75	23.84	
		36	0	22.71	22.86	22.96	22.5±1.0
		36	18	22.80	22.75	22.85	
		36	39	22.79	22.82	22.87	
		75	0	22.67	22.80	22.82	22.5±1.0
	16QAM	1	0	23.02	22.92	22.85	22.5±1.0
		1	38	22.95	22.89	22.97	
		1	74	22.90	23.09	22.78	
		36	0	21.85	21.91	21.76	21.5±1.0
		36	18	21.93	21.85	21.89	
		36	39	21.79	21.83	21.76	
		75	0	21.87	21.85	21.85	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132072/1720	132322/1745.0	132572/1770	
20MHz	QPSK	1	0	24.10	23.92	24.02	23.5±1.0
		1	50	23.79	23.84	23.91	
		1	99	23.90	23.79	23.85	
		50	0	22.76	22.72	22.87	22.5±1.0
		50	25	22.73	22.74	22.90	
		50	50	22.84	22.85	22.98	
		100	0	22.83	22.74	22.86	22.5±1.0
	16QAM	1	0	22.99	23.04	23.05	22.5±1.0
		1	50	22.75	22.84	22.87	
		1	99	22.85	23.91	22.94	
		50	0	21.73	21.75	21.91	21.5±1.0
		50	25	21.72	21.73	21.91	
		50	50	21.46	21.86	21.94	
		100	0	21.88	21.88	21.89	21.5±1.0



LTE FDD Band 66 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131979/1710.7	132322/1745.0	132665/1779.3	
1.4MHz	QPSK	1	0	22.65	22.50	22.63	22.0±1.0
		1	3	22.73	22.62	22.75	
		1	5	22.61	22.59	22.71	
		3	0	21.64	21.67	21.68	21.0±1.0
		3	2	21.61	21.69	21.70	
		3	3	21.51	21.65	21.63	
	6	0	21.55	21.62	21.61	21.0±1.0	
	16QAM	1	0	21.87	21.76	21.67	21.5±1.0
		1	3	21.68	21.86	21.71	
		1	5	21.77	21.85	21.87	
		3	0	20.54	20.56	20.55	20.0±1.0
		3	2	20.43	20.51	20.52	
		3	3	20.48	20.47	20.61	
	6	0	20.47	20.42	20.57	20.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131987/1711.5	12322/1745.0	132657/1778.5	
3MHz	QPSK	1	0	22.67	22.58	22.70	22.0±1.0
		1	7	22.71	22.64	22.73	
		1	14	22.63	22.59	22.66	
		8	0	21.75	21.61	21.76	21.5±1.0
		8	4	21.67	21.56	21.69	
		8	7	21.64	21.60	21.75	
		15	0	21.60	21.53	21.64	21.0±1.0
	16QAM	1	0	21.65	21.48	21.59	21.0±1.0
		1	7	21.47	21.47	21.62	
		1	14	21.58	21.57	21.71	
		8	0	20.69	20.57	20.62	20.0±1.0
		8	4	20.58	20.53	20.67	
		8	7	20.61	20.62	20.71	
		15	0	20.51	20.54	20.63	20.0±1.0



LTE FDD Band 66 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131997/1712.5	132322/1745.0	132647/1777.5	
5MHz	QPSK	1	0	22.61	22.49	22.64	22.0±1.0
		1	13	22.60	22.60	22.70	
		1	24	22.58	22.61	22.73	
		12	0	21.65	21.58	21.52	21.0±1.0
		12	6	21.55	21.56	21.61	
		12	13	21.47	21.60	21.56	
		25	0	21.51	21.54	21.48	21.0±1.0
	16QAM	1	0	21.51	21.44	21.59	21.0±1.0
		1	13	21.52	21.59	21.42	
		1	24	21.63	21.52	21.67	
		12	0	20.68	20.63	20.51	20.0±1.0
		12	6	20.56	20.61	20.62	
		12	13	20.58	20.63	20.52	
		25	0	20.57	20.52	20.49	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132022/1715	132322/1745.0	132622/1775	
10MHz	QPSK	1	0	22.72	22.69	22.71	22.0±1.0
		1	25	22.69	22.55	22.48	
		1	49	22.60	22.62	22.63	
		25	0	21.66	21.59	21.67	21.0±1.0
		25	13	21.54	21.48	21.53	
		25	25	21.71	21.64	21.65	
		50	0	21.63	21.51	21.52	21.0±1.0
	16QAM	1	0	21.68	21.73	21.51	21.0±1.0
		1	25	21.52	21.64	21.75	
		1	49	21.60	21.57	21.58	
		25	0	20.49	20.52	20.75	20.0±1.0
		25	13	20.57	20.57	20.77	
		25	25	20.48	20.61	20.62	
		50	0	20.42	20.54	20.63	20.0±1.0



LTE FDD Band 66 ANT 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132047/1717.5	132322/1745.0	132597/1772.5	
15MHz	QPSK	1	0	22.61	22.53	22.71	22.0±1.0
		1	38	22.68	22.73	22.72	
		1	74	22.46	22.48	22.60	
		36	0	21.51	21.58	21.58	21.0±1.0
		36	18	21.49	21.63	21.64	
		36	39	21.45	21.47	21.53	
		75	0	21.40	21.44	21.56	21.0±1.0
	16QAM	1	0	21.49	21.58	21.47	21.0±1.0
		1	38	21.63	21.50	21.61	
		1	74	21.45	21.61	21.54	
		36	0	20.59	20.61	20.52	20.0±1.0
		36	18	20.62	20.69	20.50	
		36	39	20.47	20.58	20.41	
		75	0	20.43	20.50	20.48	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132072/1720	132322/1745.0	132572/1770	
20MHz	QPSK	1	0	22.64	22.58	22.73	22.0±1.0
		1	50	22.62	22.67	22.63	
		1	99	22.58	22.54	22.56	
		50	0	21.53	21.49	21.63	21.0±1.0
		50	25	21.54	21.58	21.57	
		50	50	21.62	21.50	21.55	
		100	0	21.48	21.43	21.54	21.0±1.0
	16QAM	1	0	21.63	21.62	21.51	21.0±1.0
		1	50	21.50	21.45	21.57	
		1	99	21.49	21.53	21.64	
		50	0	20.53	20.45	20.51	20.0±1.0
		50	25	20.50	20.57	20.52	
		50	50	20.49	20.49	20.59	
		100	0	20.41	20.48	20.54	20.0±1.0



8.3 WIFI Conducted Power

Wi-Fi 2.4G Output power ANT 1

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)		
	802.11b	802.11g	802.11n(HT20)
1/2412.0	14.04	13.31	12.68
6/2437.0	13.48	12.93	12.76
11/2462.0	14.04	13.15	12.96

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)
	802.11n(HT40)
3/2422.0	12.50
6/2437.0	12.80
9/2452.0	12.80

Wi-Fi U-NII-1 Output power ANT 1

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 a	802.11 n20	802.11 ac20
36/5180.0	11.49	10.26	9.64
44/5220.0	11.33	10.00	9.61
48/5240.0	11.08	9.92	9.48

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 n40	802.11 ac40
38/5190.0	11.57	10.90
46/5230.0	11.30	10.60

Channel/Freq.(MHz)	Average Power (dBm)
	802.11 ac80
42/5210.0	10.39



Wi-Fi U-NII-2A Output power ANT 1

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 a	802.11 n20	802.11 ac20
52/5260.0	10.98	10.89	9.79
60/5300.0	10.77	9.81	9.20
64/5320.0	10.64	9.48	8.93

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 n40	802.11 ac40
54/5270.0	11.13	10.36
62/5310.0	10.89	9.98

Channel/Freq.(MHz)	Average Power (dBm)
	802.11 ac80
58/5290.0	9.65

Wi-Fi U-NII-2C Output power ANT 1

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 a	802.11 n20	802.11 ac20
100/5500.0	11.92	10.92	10.35
120/5600.0	13.46	12.19	11.65
140/5700.0	14.44	13.33	12.65

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 n40	802.11 ac40
102/5510.0	11.93	11.32
118/5590.0	13.11	12.55
134/5670.0	13.92	13.51

Channel/Freq.(MHz)	Average Power (dBm)
	802.11 ac80
106/5530.0	11.27
122/5610.0	12.22



Wi-Fi U-NII-3 Output power ANT 1

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 a	802.11 n20	802.11 ac20
149/5745.0	14.32	12.84	12.44
157/5785.0	14.47	12.82	12.64
165/5825.0	14.18	12.86	12.69

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 n40	802.11 ac40
151/5755.0	14.03	13.61
159/5795.0	14.17	13.90

Channel/Freq.(MHz)	Average Power (dBm)
	802.11 ac80
155/5775.0	13.19

8.4 Bluetooth Output Power ANT 1

Channel	Frequency (MHz)	BT Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	11.89	10.94	11.27
CH 39	2441	12.17	11.13	11.43
CH 78	2480	11.48	11.26	10.91

Channel	Frequency (MHz)	BLE Output Power(dBm)
		1M(GFSK)
CH 0	2402	7.63
CH 19	2440	7.76
CH 39	2480	7.14

Note:

- Per KDB248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion
- For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at lowest data rate
- Per KDB248227 D01 v02r02, 802.11g /11n-HT20/11n-HT40 is not required. . 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 $\leq 1.2W/Kg$. Thus the SAR can be excluded.

9. Antenna Location:



Antenna	Test Band
ANT 1	2.4GWIFI , 5GWIFI , BT
ANT 2	WCDMA 850 / 1700 / 1900 ,LTE Band 2 / 4 / 5 / 12 / 66
ANT 3	WCDMA 850 / 1700 / 1900 ,LTE Band 2 / 4 / 5 / 12 / 66



Antenna-to-User (Edge Side) distance (mm):

Antenna	Front	Back	Left	Right	Top	Bottom
ANT 1	<25	<25	>25	<25	<25	>25
ANT 2	<25	<25	<25	>25	<25	>25
ANT 3	<25	<25	<25	<25	>25	<25

Note:

- Overall (Length x Width x High): 170 mm x 77 mm x 10.5 mm
- Overall Diagonal: 180 mm / Display Diagonal: 162 mm

The Body SAR measurement positions of each band are as below:

Antenna	Front	Back	Left	Right	Top	Bottom
ANT 1	Yes	Yes	No	Yes	Yes	No
ANT 2	Yes	Yes	Yes	No	Yes	No
ANT 3	Yes	Yes	Yes	Yes	No	Yes

Note:

- According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required..
- The other Frequencies were measured at the worst position



10. Scaling Factor calculation

Operation Mode	Channel /Frequency	Output Power(dBm)	Tune up Power in tolerance (dBm)	Max. Tune up(dBm)	Scaling Factor
WCDMA 850 ANT 2	4132/826.4	22.59	22.0 ±1.0	23.00	1.099
	4183/836.6	22.31	22.0 ±1.0	23.00	1.172
	4233/846.6	22.47	22.0 ±1.0	23.00	1.130
WCDMA 850 ANT 3	4132/826.4	22.76	22.5 ±1.0	23.50	1.186
	4183/836.6	22.51	22.5 ±1.0	23.50	1.256
	4233/846.6	22.63	22.5 ±1.0	23.50	1.222
WCDMA 1700 ANT 2	1312/1712.4	22.81	22.5 ±1.0	23.50	1.172
	1413/1732.6	22.82	22.5 ±1.0	23.50	1.169
	1513/1752.6	22.92	22.5 ±1.0	23.50	1.143
WCDMA 1700 ANT 3	1312/1712.4	22.15	22.0 ±1.0	23.00	1.216
	1413/1732.6	22.20	22.0 ±1.0	23.00	1.202
	1513/1752.6	22.32	22.0 ±1.0	23.00	1.169
WCDMA 1900 ANT 2	9262/1852.4	23.07	22.5 ±1.0	23.50	1.104
	9400/1880.0	22.99	22.5 ±1.0	23.50	1.125
	9538/1907.6	22.88	22.5 ±1.0	23.50	1.153
WCDMA 1900 ANT 3	9262/1852.4	22.52	22.0 ±1.0	23.00	1.117
	9400/1880.0	22.50	22.0 ±1.0	23.00	1.122
	9538/1907.6	22.46	22.0 ±1.0	23.00	1.132
WCDMA 1900 ANT 3 P-Sensor ON	9262/1852.4	19.72	19.5 ±1.0	20.50	1.197
	9400/1880.0	19.77	19.5 ±1.0	20.50	1.183
	9538/1907.6	19.68	19.5 ±1.0	20.50	1.208
LTE B2 20MHz 1RB#0 ANT 2	18700/1860.0	24.27	24.0 ±1.0	25.00	1.183
	18900/1880.0	24.31	24.0 ±1.0	25.00	1.172
	19100/1900.0	24.19	23.5 ±1.0	24.50	1.074
LTE B2 20MHz 50RB#0 ANT 2	18700/1860.0	23.26	23.0 ±1.0	24.00	1.186
	18900/1880.0	23.22	23.0 ±1.0	24.00	1.197
	19100/1900.0	23.07	23.0 ±1.0	24.00	1.239
LTE B2 20MHz 100RB#0 ANT 2	18700/1860.0	23.14	22.5 ±1.0	23.50	1.086
	18900/1880.0	23.09	22.5 ±1.0	23.50	1.099
	19100/1900.0	23.00	22.5 ±1.0	23.50	1.122
LTE B2 20MHz 1RB#0 ANT 3	18700/1860.0	23.32	23.0 ±1.0	24.00	1.169
	18900/1880.0	23.22	23.0 ±1.0	24.00	1.197
	19100/1900.0	23.34	23.0 ±1.0	24.00	1.164



LTE B2 20MHz 50RB#0 ANT 3	18700/1860.0	22.38	22.0 ± 1.0	23.00	1.153
	18900/1880.0	22.21	22.0 ± 1.0	23.00	1.199
	19100/1900.0	22.33	22.0 ± 1.0	23.00	1.167
LTE B2 20MHz 100RB#0 ANT 3	18700/1860.0	22.17	22.0 ± 1.0	23.00	1.211
	18900/1880.0	22.22	22.0 ± 1.0	23.00	1.197
	19100/1900.0	22.27	22.0 ± 1.0	23.00	1.183
LTE B2 20MHz 1RB#0 ANT 3 P-Sensor ON	18700/1860.0	20.28	20.0 ± 1.0	21.00	1.180
	18900/1880.0	20.33	20.0 ± 1.0	21.00	1.167
	19100/1900.0	20.41	20.0 ± 1.0	21.00	1.146
LTE B2 20MHz 50RB#0 ANT 3 P-Sensor ON	18700/1860.0	20.17	19.5 ± 1.0	20.50	1.079
	18900/1880.0	20.24	19.5 ± 1.0	20.50	1.062
	19100/1900.0	20.19	19.5 ± 1.0	20.50	1.074
LTE B2 20MHz 100RB#0 ANT 3 P-Sensor ON	18700/1860.0	20.07	19.5 ± 1.0	20.50	1.104
	18900/1880.0	20.06	19.5 ± 1.0	20.50	1.107
	19100/1900.0	20.14	19.5 ± 1.0	20.50	1.086
LTE B4 20MHz 1RB#0 ANT 2	20050/1720.0	23.87	23.5 ± 1.0	24.50	1.156
	20175/1732.5	23.74	23.5 ± 1.0	24.50	1.191
	20300/1745.0	23.83	23.5 ± 1.0	24.50	1.167
LTE B4 20MHz 50RB#0 ANT 2	20050/1720.0	22.69	22.0 ± 1.0	23.00	1.074
	20175/1732.5	22.63	22.0 ± 1.0	23.00	1.089
	20300/1745.0	22.62	22.0 ± 1.0	23.00	1.091
LTE B4 20MHz 1RB#0 ANT 3	20050/1720.0	22.31	22.0 ± 1.0	23.00	1.172
	20175/1732.5	22.37	22.0 ± 1.0	23.00	1.156
	20300/1745.0	22.31	22.0 ± 1.0	23.00	1.172
LTE B4 20MHz 50RB#0 ANT 3	20050/1720.0	21.30	21.0 ± 1.0	22.00	1.175
	20175/1732.5	21.32	21.0 ± 1.0	22.00	1.169
	20300/1745.0	21.34	21.0 ± 1.0	22.00	1.164
LTE B5 10MHz 1RB#0 ANT 2	20450/829.0	24.37	24.0 ± 1.0	25.00	1.156
	20525/836.5	24.34	24.0 ± 1.0	25.00	1.164
	20600/844.0	24.08	24.0 ± 1.0	25.00	1.236
LTE B5 10MHz 25RB#0 ANT 2	20450/829.0	23.20	23.0 ± 1.0	24.00	1.202
	20525/836.5	23.14	23.0 ± 1.0	24.00	1.219
	20600/844.0	23.19	23.0 ± 1.0	24.00	1.205
LTE B5 10MHz 1RB#0 ANT 3	20450/829.0	24.07	23.5 ± 1.0	24.50	1.104
	20525/836.5	23.86	23.5 ± 1.0	24.50	1.159
	20600/844.0	23.91	23.5 ± 1.0	24.50	1.146
LTE B5 10MHz 25RB#0 ANT 3	20450/829.0	22.72	22.5 ± 1.0	23.50	1.197
	20525/836.5	22.78	22.5 ± 1.0	23.50	1.180
	20600/844.0	22.93	22.5 ± 1.0	23.50	1.140



LTE B12 10MHz 1RB#0 ANT 2	23060/704.0	23.85	23.5 ± 1.0	24.50	1.161
	23095/707.5	23.92	23.5 ± 1.0	24.50	1.143
	23130/711.0	23.86	23.5 ± 1.0	24.50	1.159
LTE B12 10MHz 25RB#0 ANT 2	23060/704.0	22.78	22.5 ± 1.0	23.50	1.180
	23095/707.5	22.74	22.5 ± 1.0	23.50	1.191
	23130/711.0	22.73	22.5 ± 1.0	23.50	1.194
LTE B12 10MHz 1RB#0 ANT 3	23060/704.0	23.64	23.0 ± 1.0	24.00	1.086
	23095/707.5	23.52	23.0 ± 1.0	24.00	1.117
	23130/711.0	23.38	23.0 ± 1.0	24.00	1.153
LTE B12 10MHz 25RB#0 ANT 3	23060/704.0	22.57	22.0 ± 1.0	23.00	1.104
	23095/707.5	22.60	22.0 ± 1.0	23.00	1.096
	23130/711.0	22.66	22.0 ± 1.0	23.00	1.081
LTE B66 20MHz 1RB#0 ANT 2	132072/1720.0	24.10	23.5 ± 1.0	24.50	1.096
	132322/1745.0	23.92	23.5 ± 1.0	24.50	1.143
	132572/1770.0	24.02	23.5 ± 1.0	24.50	1.117
LTE B66 20MHz 50RB#0 ANT 2	132072/1720.0	22.76	22.5 ± 1.0	23.50	1.186
	132322/1745.0	22.72	22.5 ± 1.0	23.50	1.197
	132572/1770.0	22.87	22.5 ± 1.0	23.50	1.156
LTE B66 20MHz 1RB#0 ANT 3	132072/1720.0	22.64	22.0 ± 1.0	23.00	1.086
	132322/1745.0	22.58	22.0 ± 1.0	23.00	1.102
	132572/1770.0	22.73	22.0 ± 1.0	23.00	1.064
LTE B66 20MHz 50RB#0 ANT 3	132072/1720.0	21.53	21.0 ± 1.0	22.00	1.114
	132322/1745.0	21.49	21.0 ± 1.0	22.00	1.125
	132572/1770.0	21.63	21.0 ± 1.0	22.00	1.089
WIFI 2.4G 802.11b ANT 1	1/2412.0	14.04	13.5 ± 1.0	14.50	1.112
	6/2437.0	13.48	13.5 ± 1.0	14.50	1.265
	11/2462.0	14.04	13.5 ± 1.0	14.50	1.112
Wi-Fi U-NII-1 802.11a ANT 1	36/5180.0	11.49	11.0 ± 1.0	12.00	1.125
	44/5220.0	11.33	11.0 ± 1.0	12.00	1.167
	48/5240.0	11.08	11.0 ± 1.0	12.00	1.236
Wi-Fi U-NII-2a 802.11a ANT 1	52/5260.0	10.98	10.5 ± 1.0	11.50	1.127
	60/5300.0	10.77	10.5 ± 1.0	11.50	1.183
	64/5320.0	10.64	10.5 ± 1.0	11.50	1.219
Wi-Fi U-NII-2c 802.11a ANT 1	100/5500.0	11.92	11.5 ± 1.0	12.50	1.143
	120/5600.0	13.46	13.0 ± 1.0	14.00	1.132
	140/5700.0	14.44	14.0 ± 1.0	15.00	1.138
Wi-Fi U-NII-3 802.11a ANT 1	149/5745.0	14.32	14.0 ± 1.0	15.00	1.169
	157/5785.0	14.47	14.0 ± 1.0	15.00	1.130
	165/5825.0	14.18	14.0 ± 1.0	15.00	1.208



BT ANT 1	0/2402.0	11.89	11.5 ± 1.0	12.50	1.151
	39/2441.0	12.17	11.5 ± 1.0	12.50	1.079
	78/2480.0	11.48	11.5 ± 1.0	12.50	1.265

Note: for LTE power tolerance, only QPSK modulation mode was provide here.



11. Test Results

Results overview of WCDMA850

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	4183/836.6	RMC	0.024	-0.65	1.172	0.028	1.6	/
Right Tilted	4183/836.6	RMC	0.012	-2.22	1.172	0.014	1.6	/
Left Cheek	4183/836.6	RMC	0.031	0.24	1.172	0.036	1.6	1
Left Tilted	4183/836.6	RMC	0.016	-0.96	1.172	0.019	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	4183/836.6	RMC	0.016	1.23	1.172	0.019	1.6	/
Back Upward	4183/836.6	RMC	0.045	-2.12	1.172	0.053	1.6	2
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	4183/836.6	RMC	0.016	1.23	1.172	0.019	1.6	/
Back Upward	4183/836.6	RMC	0.045	-2.12	1.172	0.053	1.6	2
Left	4183/836.6	RMC	0.022	3.06	1.172	0.026	1.6	/
Top	4183/836.6	RMC	0.024	-0.26	1.172	0.028	1.6	/

**Results overview of WCDMA850**

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	4183/836.6	RMC	0.210	-2.44	1.256	0.264	1.6	/
Right Tilted	4183/836.6	RMC	0.132	-0.39	1.256	0.166	1.6	/
Left Cheek	4183/836.6	RMC	0.293	-1.65	1.256	0.368	1.6	3
Left Tilted	4183/836.6	RMC	0.160	0.34	1.256	0.201	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	4183/836.6	RMC	0.320	-2.37	1.256	0.402	1.6	/
Back Upward	4183/836.6	RMC	0.389	0.63	1.256	0.489	1.6	4
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	4183/836.6	RMC	0.320	-2.37	1.256	0.402	1.6	/
Back Upward	4183/836.6	RMC	0.389	0.63	1.256	0.489	1.6	4
Left	4183/836.6	RMC	0.200	-1.51	1.256	0.251	1.6	/
Right	4183/836.6	RMC	0.320	-3.45	1.256	0.402	1.6	/
Bottom	4183/836.6	RMC	0.189	-0.65	1.256	0.237	1.6	/

**Results overview of WCDMA1700**

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	1413/1732.6	RMC	0.072	-0.54	1.169	0.084	1.6	/
Right Tilted	1413/1732.6	RMC	0.022	0.89	1.169	0.026	1.6	/
Left Cheek	1413/1732.6	RMC	0.103	-2.31	1.169	0.120	1.6	5
Left Tilted	1413/1732.6	RMC	0.037	-1.34	1.169	0.043	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	1413/1732.6	RMC	0.038	-0.19	1.169	0.044	1.6	/
Back Upward	1413/1732.6	RMC	0.043	-1.46	1.169	0.050	1.6	6
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	1413/1732.6	RMC	0.038	-0.19	1.169	0.044	1.6	/
Back Upward	1413/1732.6	RMC	0.043	-1.46	1.169	0.050	1.6	6
Left	1413/1732.6	RMC	0.022	-1.09	1.169	0.026	1.6	/
Top	1413/1732.6	RMC	0.027	2.79	1.169	0.032	1.6	/

**Results overview of WCDMA1700**

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	1413/1732.6	RMC	0.088	-0.64	1.202	0.106	1.6	/
Right Tilted	1413/1732.6	RMC	0.056	-0.21	1.202	0.067	1.6	/
Left Cheek	1413/1732.6	RMC	0.119	2.23	1.202	0.143	1.6	7
Left Tilted	1413/1732.6	RMC	0.063	-0.95	1.202	0.076	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	1413/1732.6	RMC	0.393	-0.85	1.202	0.472	1.6	/
Back Upward	1413/1732.6	RMC	0.433	-2.22	1.202	0.520	1.6	8
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	1413/1732.6	RMC	0.393	-0.85	1.202	0.472	1.6	/
Back Upward	1413/1732.6	RMC	0.433	-2.22	1.202	0.520	1.6	8
Left	1413/1732.6	RMC	0.185	-3.84	1.202	0.222	1.6	/
Right	1413/1732.6	RMC	0.127	1.38	1.202	0.153	1.6	/
Bottom	1413/1732.6	RMC	0.343	-0.61	1.202	0.412	1.6	/

**Results overview of WCDMA1900**

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	9400/1880.0	RMC	0.336	-0.57	1.125	0.378	1.6	/
Right Tilted	9400/1880.0	RMC	0.142	-1.65	1.125	0.160	1.6	/
Left Cheek	9400/1880.0	RMC	0.417	0.96	1.125	0.469	1.6	9
Left Tilted	9400/1880.0	RMC	0.180	0.21	1.125	0.203	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	9400/1880.0	RMC	0.102	0.90	1.125	0.115	1.6	/
Back Upward	9400/1880.0	RMC	0.180	-2.08	1.125	0.203	1.6	10
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	9400/1880.0	RMC	0.102	0.90	1.125	0.115	1.6	/
Back Upward	9400/1880.0	RMC	0.180	-2.08	1.125	0.203	1.6	10
Left	9400/1880.0	RMC	0.128	1.36	1.125	0.144	1.6	/
Top	9400/1880.0	RMC	0.137	-0.97	1.125	0.154	1.6	/



Results overview of WCDMA1900

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor OFF								
Right Cheek	9400/1880.0	RMC	0.201	-0.69	1.122	0.226	1.6	/
Right Tilted	9400/1880.0	RMC	0.098	-0.35	1.122	0.110	1.6	/
Left Cheek	9400/1880.0	RMC	0.253	-2.78	1.122	0.284	1.6	11
Left Tilted	9400/1880.0	RMC	0.124	-0.42	1.122	0.139	1.6	/
Body-worn	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor ON								
Back Upward P-Sensor ON (10mm)	9400/1880.0	RMC	0.866	-2.14	1.183	1.024	1.6	12
Back Upward P-Sensor ON (10mm) Repeat	9400/1880.0	RMC	0.853	0.83	1.183	1.009	1.6	/
Back Upward P-Sensor ON (10mm)	9262/1852.4	RMC	0.860	1.06	1.197	1.029	1.6	/
Back Upward P-Sensor ON (10mm)	9538/1907.6	RMC	0.759	2.31	1.208	0.917	1.6	/
P-Sensor OFF								
Front Upward (10mm)	9400/1880.0	RMC	0.472	-3.06	1.122	0.530	1.6	/
Back Upward (17mm)	9400/1880.0	RMC	0.510	2.29	1.122	0.572	1.6	/
Hotspot	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor ON								
Back Upward P-Sensor ON (10mm)	9400/1880.0	RMC	0.866	-2.14	1.183	1.024	1.6	12
Back Upward P-Sensor ON (10mm) Repeat	9400/1880.0	RMC	0.853	0.83	1.183	1.009	1.6	/
Back Upward P-Sensor ON	9262/1852.4	RMC	0.860	1.06	1.197	1.029	1.6	/



(10mm)								
Back Upward P-Sensor ON (10mm)	9538/1907.6	RMC	0.759	2.31	1.208	0.917	1.6	/
Bottom P-Sensor ON (10mm)	9400/1880.0	RMC	0.695	-0.41	1.183	0.822	1.6	/
P-Sensor OFF								
Front Upward (10mm)	9400/1880.0	RMC	0.472	-3.06	1.122	0.530	1.6	/
Back Upward (17mm)	9400/1880.0	RMC	0.510	2.29	1.122	0.572	1.6	/
Left (10mm)	9400/1880.0	RMC	0.418	1.81	1.122	0.469	1.6	/
Right (10mm)	9400/1880.0	RMC	0.089	-3.27	1.122	0.100	1.6	/
Bottom (13mm)	9400/1880.0	RMC	0.813	-0.65	1.122	0.912	1.6	/
Bottom (13mm) Repeat	9400/1880.0	RMC	0.825	2.10	1.122	0.926	1.6	/
Bottom (13mm)	9262/1852.4	RMC	0.807	-0.35	1.117	0.901	1.6	/
Bottom (13mm)	9538/1907.6	RMC	0.782	-1.11	1.132	0.885	1.6	/



Results overview of FDD LTE Band 2, QPSK, 20MHz Bandwidth

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	18900/1880.0	QPSK	0.786	1.29	1.172	0.921	1.6	/
Right Tilted	18900/1880.0	QPSK	0.519	-2.38	1.172	0.608	1.6	/
Left Cheek	18900/1880.0	QPSK	0.953	1.55	1.172	1.117	1.6	/
Left Tilted	18900/1880.0	QPSK	0.592	-0.41	1.172	0.694	1.6	/
Left Cheek	18700/1860.0	QPSK	0.928	2.36	1.183	1.098	1.6	/
Left Cheek	19100/1900.0	QPSK	1.023	-1.24	1.074	1.099	1.6	13
Left Cheek Repeat	19100/1900.0	QPSK	1.005	-0.94	1.074	1.079	1.6	/
50%RB#0								
Right Cheek	18900/1880.0	QPSK	0.672	-2.05	1.197	0.804	1.6	/
Right Tilted	18900/1880.0	QPSK	0.415	-0.62	1.197	0.497	1.6	/
Left Cheek	18900/1880.0	QPSK	0.802	1.52	1.197	0.960	1.6	/
Left Cheek Repeat	18900/1880.0	QPSK	0.791	1.52	1.197	0.947	1.6	/
Left Tilted	18900/1880.0	QPSK	0.503	-3.63	1.197	0.602	1.6	/
Left Cheek	18700/1860.0	QPSK	0.756	0.98	1.186	0.897	1.6	/
Left Cheek	19100/1900.0	QPSK	0.714	-1.26	1.239	0.885	1.6	/
100%RB#0								
Right Cheek	18900/1880.0	QPSK	0.596	-3.49	1.099	0.655	1.6	/
Right Tilted	18900/1880.0	QPSK	0.402	-1.36	1.099	0.442	1.6	/
Left Cheek	18900/1880.0	QPSK	0.719	-0.45	1.099	0.790	1.6	/
Left Tilted	18900/1880.0	QPSK	0.501	1.53	1.099	0.551	1.6	/
Left Cheek	18700/1860.0	QPSK	0.706	0.41	1.086	0.767	1.6	/
Left Cheek	19100/1900.0	QPSK	0.740	-2.24	1.122	0.830	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	18900/1880.0	QPSK	0.368	-2.09	1.172	0.431	1.6	/
Back Upward	18900/1880.0	QPSK	0.531	-0.98	1.172	0.622	1.6	14
50%RB#0								
Front Upward	18900/1880.0	QPSK	0.329	-3.87	1.197	0.394	1.6	/
Back Upward	18900/1880.0	QPSK	0.476	-1.75	1.197	0.570	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	18900/1880.0	QPSK	0.368	-2.09	1.172	0.431	1.6	/
Back Upward	18900/1880.0	QPSK	0.531	-0.98	1.172	0.622	1.6	14
Left	18900/1880.0	QPSK	0.498	1.36	1.172	0.584	1.6	/



Top	18900/1880.0	QPSK	0.233	-0.27	1.172	0.273	1.6	/
50%RB#0								
Front Upward	18900/1880.0	QPSK	0.329	-3.87	1.197	0.394	1.6	/
Back Upward	18900/1880.0	QPSK	0.476	-1.75	1.197	0.570	1.6	/
Left	18900/1880.0	QPSK	0.353	-0.20	1.197	0.423	1.6	/
Top	18900/1880.0	QPSK	0.172	-2.36	1.197	0.206	1.6	/



Results overview of FDD LTE Band 2, QPSK, 20MHz Bandwidth

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor OFF 1RB#0								
Right Cheek	18900/1880.0	QPSK	0.350	1.89	1.197	0.419	1.6	/
Right Tilted	18900/1880.0	QPSK	0.120	-0.30	1.197	0.144	1.6	/
Left Cheek	18900/1880.0	QPSK	0.445	-2.19	1.197	0.533	1.6	15
Left Tilted	18900/1880.0	QPSK	0.162	0.24	1.197	0.194	1.6	/
P-Sensor OFF 50%RB#0								
Right Cheek	18900/1880.0	QPSK	0.261	-2.13	1.199	0.313	1.6	/
Right Tilted	18900/1880.0	QPSK	0.098	3.02	1.199	0.118	1.6	/
Left Cheek	18900/1880.0	QPSK	0.370	-1.60	1.199	0.444	1.6	/
Left Tilted	18900/1880.0	QPSK	0.113	-3.58	1.199	0.135	1.6	/
Body-worn	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor ON 1RB#0								
Back Upward (10mm)	18900/1880.0	QPSK	0.758	-0.65	1.167	0.885	1.6	/
Back Upward (10mm)	18700/1860.0	QPSK	0.764	-2.82	1.180	0.902	1.6	16
Back Upward (10mm)	19100/1900.0	QPSK	0.725	-0.24	1.146	0.831	1.6	/
P-Sensor ON 50%RB#0								
Back Upward (10mm)	18900/1880.0	QPSK	0.701	-3.98	1.079	0.756	1.6	/
P-Sensor ON 100%RB#0								
Back Upward (10mm)	18900/1880.0	QPSK	0.679	-1.90	1.107	0.752	1.6	/
P-Sensor OFF 1RB#0								
Front Upward (10mm)	18900/1880.0	QPSK	0.436	1.79	1.197	0.522	1.6	/
Back Upward (17mm)	18900/1880.0	QPSK	0.624	-3.36	1.197	0.747	1.6	/
P-Sensor OFF 50%RB#0								
Front Upward (10mm)	18900/1880.0	QPSK	0.386	-0.49	1.199	0.463	1.6	/
Back Upward (17mm)	18900/1880.0	QPSK	0.471	-2.42	1.199	0.565	1.6	/
Hotspot	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
P-Sensor ON 1RB#0								
Back Upward	18900/1880.0	QPSK	0.758	-0.65	1.167	0.885	1.6	/



(10mm)								
Back Upward (10mm)	18700/1860.0	QPSK	0.764	-2.82	1.180	0.902	1.6	/
Back Upward (10mm)	19100/1900.0	QPSK	0.725	-0.24	1.146	0.831	1.6	/
Bottom (10mm)	18900/1880.0	QPSK	0.662	-1.42	1.167	0.773	1.6	/
P-Sensor ON 50%RB#0								
Back Upward (10mm)	18900/1880.0	QPSK	0.701	-3.98	1.079	0.756	1.6	/
Bottom (10mm)	18900/1880.0	QPSK	0.573	1.31	1.079	0.618	1.6	/
P-Sensor ON 100%RB#0								
Back Upward (10mm)	18900/1880.0	QPSK	0.679	-1.90	1.107	0.752	1.6	/
Bottom (10mm)	18900/1880.0	QPSK	0.529	0.31	1.107	0.586	1.6	/
P-Sensor OFF 1RB#0								
Front Upward (10mm)	18900/1880.0	QPSK	0.436	1.79	1.197	0.522	1.6	/
Back Upward (17mm)	18900/1880.0	QPSK	0.624	-3.36	1.197	0.747	1.6	/
Left (10mm)	18700/1860.0	QPSK	0.369	-2.91	1.197	0.442	1.6	/
Right (10mm)	19100/1900.0	QPSK	0.062	-0.67	1.197	0.074	1.6	/
Bottom (13mm)	18900/1880.0	QPSK	0.813	2.64	1.197	0.973	1.6	/
Bottom (13mm) Repeat	18900/1880.0	QPSK	0.819	0.52	1.197	0.980	1.6	17
Bottom (13mm)	18700/1860.0	QPSK	0.780	-0.54	1.169	0.912	1.6	/
Bottom (13mm)	19100/1900.0	QPSK	0.682	-2.39	1.164	0.794	1.6	/
P-Sensor OFF 50%RB#0								
Front Upward (10mm)	18900/1880.0	QPSK	0.386	-0.49	1.199	0.463	1.6	/
Back Upward (17mm)	18900/1880.0	QPSK	0.471	-2.42	1.199	0.565	1.6	/
Left (10mm)	18900/1880.0	QPSK	0.306	3.43	1.199	0.367	1.6	/
Right (10mm)	18900/1880.0	QPSK	0.041	-1.02	1.199	0.049	1.6	/



Bottom (13mm)	18900/1880.0	QPSK	0.654	-2.04	1.199	0.784	1.6	/
P-Sensor OFF 100%RB#0								
Front Upward (10mm)	18900/1880.0	QPSK	0.365	0.41	1.197	0.437	1.6	/
Back Upward (17mm)	18900/1880.0	QPSK	0.449	-1.92	1.197	0.537	1.6	/
Left (10mm)	18900/1880.0	QPSK	0.297	-2.80	1.197	0.356	1.6	/
Right (10mm)	18900/1880.0	QPSK	0.045	-1.06	1.197	0.054	1.6	/
Bottom (13mm)	18900/1880.0	QPSK	0.628	0.83	1.197	0.752	1.6	/



Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20175/1732.5	QPSK	0.351	-1.86	1.191	0.418	1.6	/
Right Tilted	20175/1732.5	QPSK	0.215	0.64	1.191	0.256	1.6	/
Left Cheek	20175/1732.5	QPSK	0.404	0.29	1.191	0.481	1.6	18
Left Tilted	20175/1732.5	QPSK	0.236	-0.32	1.191	0.281	1.6	/
50%RB#0								
Right Cheek	20175/1732.5	QPSK	0.242	2.69	1.089	0.264	1.6	/
Right Tilted	20175/1732.5	QPSK	0.152	-0.24	1.089	0.166	1.6	/
Left Cheek	20175/1732.5	QPSK	0.314	-2.45	1.08	0.339	1.6	/
Left Tilted	20175/1732.5	QPSK	0.199	-3.05	1.089	0.217	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20175/1732.5	QPSK	0.129	1.09	1.191	0.154	1.6	/
Back Upward	20175/1732.5	QPSK	0.187	-1.82	1.191	0.223	1.6	19
50%RB#0								
Front Upward	20175/1732.5	QPSK	0.101	-2.67	1.089	0.110	1.6	/
Back Upward	20175/1732.5	QPSK	0.156	-0.99	1.089	0.170	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20175/1732.5	QPSK	0.129	1.09	1.191	0.154	1.6	/
Back Upward	20175/1732.5	QPSK	0.187	-1.82	1.191	0.223	1.6	19
Left	20175/1732.5	QPSK	0.147	-3.96	1.191	0.175	1.6	/
Top	20175/1732.5	QPSK	0.130	-2.01	1.191	0.155	1.6	/
50%RB#0								
Front Upward	20175/1732.5	QPSK	0.101	-2.67	1.089	0.110	1.6	/
Back Upward	20175/1732.5	QPSK	0.156	-0.99	1.089	0.170	1.6	/
Left	20175/1732.5	QPSK	0.112	-3.62	1.089	0.122	1.6	/
Top	20175/1732.5	QPSK	0.101	-2.82	1.089	0.110	1.6	/



Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20175/1732.5	QPSK	0.311	-0.86	1.156	0.360	1.6	/
Right Tilted	20175/1732.5	QPSK	0.158	-2.67	1.156	0.183	1.6	/
Left Cheek	20175/1732.5	QPSK	0.409	-0.26	1.156	0.473	1.6	20
Left Tilted	20175/1732.5	QPSK	0.214	1.23	1.156	0.247	1.6	/
50%RB#0								
Right Cheek	20175/1732.5	QPSK	0.252	-0.24	1.169	0.295	1.6	/
Right Tilted	20175/1732.5	QPSK	0.116	1.86	1.169	0.136	1.6	/
Left Cheek	20175/1732.5	QPSK	0.342	-0.81	1.169	0.400	1.6	/
Left Tilted	20175/1732.5	QPSK	0.174	-1.95	1.169	0.203	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20175/1732.5	QPSK	0.392	-0.68	1.156	0.453	1.6	/
Back Upward	20175/1732.5	QPSK	0.537	2.19	1.156	0.621	1.6	21
50%RB#0								
Front Upward	20175/1732.5	QPSK	0.286	-3.43	1.169	0.334	1.6	/
Back Upward	20175/1732.5	QPSK	0.472	3.29	1.169	0.552	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20175/1732.5	QPSK	0.392	-0.68	1.156	0.453	1.6	/
Back Upward	20175/1732.5	QPSK	0.537	2.19	1.156	0.621	1.6	21
Left	20175/1732.5	QPSK	0.330	-1.44	1.156	0.381	1.6	/
Right	20175/1732.5	QPSK	0.114	-2.43	1.156	0.132	1.6	/
Bottom	20175/1732.5	QPSK	0.301	-0.85	1.156	0.348	1.6	/
50%RB#0								
Front Upward	20175/1732.5	QPSK	0.286	-3.43	1.169	0.334	1.6	/
Back Upward	20175/1732.5	QPSK	0.472	3.29	1.169	0.552	1.6	/
Left	20175/1732.5	QPSK	0.262	1.20	1.169	0.306	1.6	/
Right	20175/1732.5	QPSK	0.096	-2.19	1.169	0.112	1.6	/
Bottom	20175/1732.5	QPSK	0.271	-3.00	1.169	0.317	1.6	/



Results overview of FDD LTE Band 5, QPSK, 10MHz Bandwidth

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20525/836.5	QPSK	0.400	0.45	1.164	0.466	1.6	22
Right Tilted	20525/836.5	QPSK	0.341	-1.49	1.164	0.397	1.6	/
Left Cheek	20525/836.5	QPSK	0.326	0.27	1.164	0.379	1.6	/
Left Tilted	20525/836.5	QPSK	0.228	0.54	1.164	0.265	1.6	/
50%RB#0								
Right Cheek	20525/836.5	QPSK	0.320	-2.25	1.219	0.390	1.6	/
Right Tilted	20525/836.5	QPSK	0.261	2.42	1.219	0.318	1.6	/
Left Cheek	20525/836.5	QPSK	0.254	-3.87	1.219	0.310	1.6	/
Left Tilted	20525/836.5	QPSK	0.191	-1.06	1.219	0.233	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20525/836.5	QPSK	0.136	-3.19	1.164	0.158	1.6	/
Back Upward	20525/836.5	QPSK	0.248	-1.82	1.164	0.289	1.6	23
50%RB#0								
Front Upward	20525/836.5	QPSK	0.105	-1.07	1.219	0.128	1.6	/
Back Upward	20525/836.5	QPSK	0.217	3.46	1.219	0.265	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20525/836.5	QPSK	0.136	-3.19	1.164	0.158	1.6	/
Back Upward	20525/836.5	QPSK	0.248	-1.82	1.164	0.289	1.6	23
Left	20525/836.5	QPSK	0.064	0.96	1.164	0.074	1.6	/
Top	20525/836.5	QPSK	0.071	-2.66	1.164	0.083	1.6	/
50%RB#0								
Front Upward	20525/836.5	QPSK	0.105	-1.07	1.219	0.128	1.6	/
Back Upward	20525/836.5	QPSK	0.217	3.46	1.219	0.265	1.6	/
Left	20525/836.5	QPSK	0.048	-0.51	1.219	0.059	1.6	/
Top	20525/836.5	QPSK	0.054	2.27	1.219	0.066	1.6	/



Results overview of FDD LTE Band 5, QPSK, 10MHz Bandwidth

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20525/836.5	QPSK	0.283	0.58	1.159	0.328	1.6	/
Right Tilted	20525/836.5	QPSK	0.130	-1.36	1.159	0.151	1.6	/
Left Cheek	20525/836.5	QPSK	0.317	-2.56	1.159	0.367	1.6	24
Left Tilted	20525/836.5	QPSK	0.148	0.25	1.159	0.172	1.6	/
50%RB#0								
Right Cheek	20525/836.5	QPSK	0.234	-2.95	1.180	0.276	1.6	/
Right Tilted	20525/836.5	QPSK	0.112	-0.18	1.180	0.132	1.6	/
Left Cheek	20525/836.5	QPSK	0.274	2.24	1.180	0.323	1.6	/
Left Tilted	20525/836.5	QPSK	0.141	-3.17	1.180	0.166	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20525/836.5	QPSK	0.333	-2.07	1.159	0.386	1.6	/
Back Upward	20525/836.5	QPSK	0.406	-0.20	1.159	0.471	1.6	25
50%RB#0								
Front Upward	20525/836.5	QPSK	0.262	0.23	1.180	0.309	1.6	/
Back Upward	20525/836.5	QPSK	0.346	-2.47	1.180	0.408	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	20525/836.5	QPSK	0.333	-2.07	1.159	0.386	1.6	/
Back Upward	20525/836.5	QPSK	0.406	-0.20	1.159	0.471	1.6	25
Left	20525/836.5	QPSK	0.215	1.14	1.159	0.249	1.6	/
Right	20525/836.5	QPSK	0.362	0.58	1.159	0.420	1.6	/
Bottom	20525/836.5	QPSK	0.191	3.10	1.159	0.221	1.6	/
50%RB#0								
Front Upward	20525/836.5	QPSK	0.262	0.23	1.180	0.309	1.6	/
Back Upward	20525/836.5	QPSK	0.346	-2.47	1.180	0.408	1.6	/
Left	20525/836.5	QPSK	0.169	3.05	1.180	0.199	1.6	/
Right	20525/836.5	QPSK	0.274	-1.15	1.180	0.323	1.6	/
Bottom	20525/836.5	QPSK	0.168	2.00	1.180	0.198	1.6	/



Results overview of FDD LTE Band 12, QPSK, 10MHz Bandwidth

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	23095/707.5	QPSK	0.672	-2.91	1.143	0.768	1.6	26
Right Tilted	23095/707.5	QPSK	0.539	-0.53	1.143	0.616	1.6	/
Left Cheek	23095/707.5	QPSK	0.614	-0.61	1.143	0.702	1.6	/
Left Tilted	23095/707.5	QPSK	0.448	1.80	1.143	0.512	1.6	/
50%RB#0								
Right Cheek	23095/707.5	QPSK	0.594	-0.74	1.191	0.707	1.6	/
Right Tilted	23095/707.5	QPSK	0.501	-2.53	1.191	0.597	1.6	/
Left Cheek	23095/707.5	QPSK	0.523	-1.61	1.191	0.623	1.6	/
Left Tilted	23095/707.5	QPSK	0.392	3.80	1.191	0.467	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	23095/707.5	QPSK	0.246	-2.57	1.143	0.281	1.6	/
Back Upward	23095/707.5	QPSK	0.434	-1.02	1.143	0.496	1.6	27
50%RB#0								
Front Upward	23095/707.5	QPSK	0.189	-0.81	1.191	0.225	1.6	/
Back Upward	23095/707.5	QPSK	0.383	-1.52	1.191	0.456	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	23095/707.5	QPSK	0.246	-2.57	1.143	0.281	1.6	/
Back Upward	23095/707.5	QPSK	0.434	-1.02	1.143	0.496	1.6	27
Left	23095/707.5	QPSK	0.187	0.52	1.143	0.214	1.6	/
Top	23095/707.5	QPSK	0.105	-0.13	1.143	0.120	1.6	/
50%RB#0								
Front Upward	23095/707.5	QPSK	0.189	-0.81	1.191	0.225	1.6	/
Back Upward	23095/707.5	QPSK	0.383	-1.52	1.191	0.456	1.6	/
Left	23095/707.5	QPSK	0.152	3.28	1.191	0.181	1.6	/
Top	23095/707.5	QPSK	0.096	-1.55	1.191	0.114	1.6	/



Results overview of FDD LTE Band 12, QPSK, 10MHz Bandwidth

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	23095/707.5	QPSK	0.202	0.56	1.117	0.226	1.6	/
Right Tilted	23095/707.5	QPSK	0.085	-2.65	1.117	0.095	1.6	/
Left Cheek	23095/707.5	QPSK	0.248	1.63	1.117	0.277	1.6	28
Left Tilted	23095/707.5	QPSK	0.099	-0.47	1.117	0.111	1.6	/
50%RB#0								
Right Cheek	23095/707.5	QPSK	0.179	-3.41	1.096	0.196	1.6	/
Right Tilted	23095/707.5	QPSK	0.072	1.75	1.096	0.079	1.6	/
Left Cheek	23095/707.5	QPSK	0.224	-2.01	1.096	0.246	1.6	/
Left Tilted	23095/707.5	QPSK	0.089	-1.12	1.096	0.098	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	23095/707.5	QPSK	0.266	3.89	1.117	0.297	1.6	/
Back Upward	23095/707.5	QPSK	0.390	-0.55	1.117	0.436	1.6	29
50%RB#0								
Front Upward	23095/707.5	QPSK	0.224	-0.98	1.096	0.246	1.6	/
Back Upward	23095/707.5	QPSK	0.312	-1.67	1.096	0.342	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	23095/707.5	QPSK	0.266	3.89	1.117	0.297	1.6	/
Back Upward	23095/707.5	QPSK	0.390	-0.55	1.117	0.436	1.6	29
Left	23095/707.5	QPSK	0.214	-1.95	1.117	0.239	1.6	/
Right	23095/707.5	QPSK	0.295	2.71	1.117	0.330	1.6	/
Bottom	23095/707.5	QPSK	0.367	-0.72	1.117	0.410	1.6	/
50%RB#0								
Front Upward	23095/707.5	QPSK	0.224	-0.98	1.096	0.246	1.6	/
Back Upward	23095/707.5	QPSK	0.312	-1.67	1.096	0.342	1.6	/
Left	23095/707.5	QPSK	0.180	0.89	1.096	0.197	1.6	/
Right	23095/707.5	QPSK	0.212	-3.55	1.096	0.232	1.6	/
Bottom	23095/707.5	QPSK	0.282	2.16	1.096	0.309	1.6	/



Results overview of FDD LTE Band 66, QPSK, 20MHz Bandwidth

ANT 2

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	132322/1745.0	QPSK	0.403	-1.77	1.143	0.461	1.6	/
Right Tilted	132322/1745.0	QPSK	0.310	-0.90	1.143	0.354	1.6	/
Left Cheek	132322/1745.0	QPSK	0.492	-2.05	1.143	0.562	1.6	30
Left Tilted	132322/1745.0	QPSK	0.345	-1.94	1.143	0.394	1.6	/
50%RB#0								
Right Cheek	132322/1745.0	QPSK	0.331	-0.64	1.197	0.396	1.6	/
Right Tilted	132322/1745.0	QPSK	0.254	1.38	1.197	0.304	1.6	/
Left Cheek	132322/1745.0	QPSK	0.416	2.54	1.197	0.498	1.6	/
Left Tilted	132322/1745.0	QPSK	0.286	-1.69	1.197	0.342	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	132322/1745.0	QPSK	0.088	-3.51	1.143	0.101	1.6	/
Back Upward	132322/1745.0	QPSK	0.136	1.81	1.143	0.155	1.6	31
50%RB#0								
Front Upward	132322/1745.0	QPSK	0.083	-2.62	1.197	0.099	1.6	/
Back Upward	132322/1745.0	QPSK	0.112	1.23	1.197	0.134	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	132322/1745.0	QPSK	0.088	-3.51	1.143	0.101	1.6	/
Back Upward	132322/1745.0	QPSK	0.136	1.81	1.143	0.155	1.6	31
Left	132322/1745.0	QPSK	0.133	-2.32	1.143	0.152	1.6	/
Top	132322/1745.0	QPSK	0.062	-1.09	1.143	0.071	1.6	/
50%RB#0								
Front Upward	132322/1745.0	QPSK	0.083	-2.62	1.197	0.099	1.6	/
Back Upward	132322/1745.0	QPSK	0.112	1.23	1.197	0.134	1.6	/
Left	132322/1745.0	QPSK	0.107	3.47	1.197	0.128	1.6	/
Top	132322/1745.0	QPSK	0.049	-0.96	1.197	0.059	1.6	/



Results overview of FDD LTE Band 66, QPSK, 20MHz Bandwidth

ANT 3

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	132322/1745.0	QPSK	0.163	-0.32	1.102	0.180	1.6	/
Right Tilted	132322/1745.0	QPSK	0.071	2.25	1.102	0.078	1.6	/
Left Cheek	132322/1745.0	QPSK	0.192	-0.17	1.102	0.212	1.6	32
Left Tilted	132322/1745.0	QPSK	0.080	1.45	1.102	0.088	1.6	/
50%RB#0								
Right Cheek	132322/1745.0	QPSK	0.133	1.86	1.125	0.150	1.6	/
Right Tilted	132322/1745.0	QPSK	0.061	2.66	1.125	0.069	1.6	/
Left Cheek	132322/1745.0	QPSK	0.143	-0.37	1.125	0.161	1.6	/
Left Tilted	132322/1745.0	QPSK	0.072	3.15	1.125	0.081	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	132322/1745.0	QPSK	0.111	-3.49	1.102	0.122	1.6	/
Back Upward	132322/1745.0	QPSK	0.123	0.12	1.102	0.136	1.6	33
50%RB#0								
Front Upward	132322/1745.0	QPSK	0.092	3.24	1.125	0.104	1.6	/
Back Upward	132322/1745.0	QPSK	0.104	2.42	1.125	0.117	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Front Upward	132322/1745.0	QPSK	0.111	-3.49	1.102	0.122	1.6	/
Back Upward	132322/1745.0	QPSK	0.123	0.12	1.102	0.136	1.6	33
Left	132322/1745.0	QPSK	0.050	-1.79	1.102	0.055	1.6	/
Right	132322/1745.0	QPSK	0.076	-1.74	1.102	0.084	1.6	/
Bottom	132322/1745.0	QPSK	0.109	0.90	1.102	0.120	1.6	/
50%RB#0								
Front Upward	132322/1745.0	QPSK	0.092	3.24	1.125	0.104	1.6	/
Back Upward	132322/1745.0	QPSK	0.104	2.42	1.125	0.117	1.6	/
Left	132322/1745.0	QPSK	0.040	1.50	1.125	0.045	1.6	/
Right	132322/1745.0	QPSK	0.054	4.35	1.125	0.061	1.6	/
Bottom	132322/1745.0	QPSK	0.086	0.91	1.125	0.097	1.6	/

**Results overview of WIFI2.4G 802.11b**

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	6/2437.0	802.11b	0.089	-0.65	1.265	0.113	1.6	/
Right Tilted	6/2437.0	802.11b	0.060	-0.21	1.265	0.076	1.6	/
Left Cheek	6/2437.0	802.11b	0.104	-1.99	1.265	0.132	1.6	34
Left Tilted	6/2437.0	802.11b	0.069	-1.56	1.265	0.087	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	6/2437.0	802.11b	0.024	-2.45	1.265	0.030	1.6	/
Back Upward	6/2437.0	802.11b	0.027	0.58	1.265	0.034	1.6	35
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	6/2437.0	802.11b	0.024	-2.45	1.265	0.030	1.6	/
Back Upward	6/2437.0	802.11b	0.027	0.58	1.265	0.034	1.6	/
Right	6/2437.0	802.11b	0.013	-1.36	1.265	0.016	1.6	/
Top	6/2437.0	802.11b	0.034	0.12	1.265	0.043	1.6	36

**Results overview of WIFI U-NII 1 802.11a**

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	44/5220.0	802.11a	0.102	0.53	1.167	0.119	1.6	/
Right Tilted	44/5220.0	802.11a	0.108	0.31	1.167	0.126	1.6	/
Left Cheek	44/5220.0	802.11a	0.101	-0.75	1.167	0.118	1.6	/
Left Tilted	44/5220.0	802.11a	0.113	-1.24	1.167	0.132	1.6	37
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	44/5220.0	802.11a	0.091	-1.24	1.167	0.106	1.6	/
Back Upward	44/5220.0	802.11a	0.158	-2.47	1.167	0.184	1.6	38

Results overview of WIFI U-NII 2a 802.11a

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	60/5300.0	802.11a	0.094	0.65	1.183	0.111	1.6	/
Right Tilted	60/5300.0	802.11a	0.101	0.15	1.183	0.119	1.6	/
Left Cheek	60/5300.0	802.11a	0.101	0.54	1.183	0.119	1.6	/
Left Tilted	60/5300.0	802.11a	0.108	0.79	1.183	0.128	1.6	39
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	60/5300.0	802.11a	0.090	-3.81	1.183	0.106	1.6	/
Back Upward	60/5300.0	802.11a	0.173	-2.77	1.183	0.205	1.6	40

**Results overview of WIFI U-NII 2c 802.11a**

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	120/5600.0	802.11a	0.090	-0.62	1.143	0.103	1.6	/
Right Tilted	120/5600.0	802.11a	0.096	-0.54	1.143	0.110	1.6	/
Left Cheek	120/5600.0	802.11a	0.099	-2.88	1.143	0.113	1.6	/
Left Tilted	120/5600.0	802.11a	0.108	-1.96	1.143	0.123	1.6	41
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	120/5600.0	802.11a	0.086	-1.96	1.143	0.098	1.6	/
Back Upward	120/5600.0	802.11a	0.306	0.54	1.143	0.350	1.6	42

Results overview of WIFI U-NII 3 802.11a

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	157/5785.0	802.11a	0.110	1.21	1.130	0.124	1.6	/
Right Tilted	157/5785.0	802.11a	0.118	-1.59	1.130	0.133	1.6	/
Left Cheek	157/5785.0	802.11a	0.115	-2.31	1.130	0.130	1.6	/
Left Tilted	157/5785.0	802.11a	0.122	-0.17	1.130	0.138	1.6	43
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	157/5785.0	802.11a	0.086	-0.19	1.130	0.097	1.6	/
Back Upward	157/5785.0	802.11a	0.306	0.74	1.130	0.346	1.6	44

**Results overview of BT**

ANT 1

Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	39/2441.0	DH5	0.112	-2.65	1.079	0.121	1.6	/
Right Tilted	39/2441.0	DH5	0.098	1.54	1.079	0.106	1.6	/
Left Cheek	39/2441.0	DH5	0.135	1.22	1.079	0.146	1.6	45
Left Tilted	39/2441.0	DH5	0.117	-0.26	1.079	0.126	1.6	/
Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	39/2441.0	DH5	0.028	-1.18	1.079	0.030	1.6	/
Back Upward	39/2441.0	DH5	0.031	-2.30	1.079	0.033	1.6	46

Note:

Per KDB941225 D06 v02r01, When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. As the manufacture requirement the separation distance use 5mm for Hotspot mode.

Per KDB Publication 941225 D01v03r01. RMC 12.2kbps was as primary mode SAR, when the primary mode SAR less than 1.2W/kg, secondary SAR (HSPA) was not requires.

When the 1-g SAR for the mid-band channel or the channel with the highest output power satisfy the following conditions, testing of the other channels in the band is not required. (Per KDB 447498 D01 General RF Exposure Guidance v06)

- ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg, when the transmission band is ≥ 200 MHz



12. Simultaneous Transmissions Analysis

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 6 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards.

Simultaneous SAR

No.	Transmitter Combinations	Head	Body	Hotspot
1	WWAN + WLAN 2.4GHz	Support	Support	Support
2	WWAN + WLAN 5GHz	Support	Support	No Support
3	WWAN+ Bluetooth	Support	Support	No Support

Note:

1. EUT will choose each WCDMA, LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
2. EUT WCDMA/LTE primary and secondary antennas all support transmitting and receiving, but LTE does not support MIMO function.
3. The reported SAR summation is calculated based on the same configuration and test position.



Simultaneous Tx Combination of GSM/WCDMA/LTE and BT/WIFI (Head)

Test Position/Freq.	Right Cheek	Right Tilted	Left Cheek	Left Tilted	
Head MAX 1-g SAR(W/Kg)	WCDMA 850 ANT 2	0.028	0.014	0.036	0.019
	WCDMA 850 ANT 3	0.264	0.166	0.367	0.201
	WCDMA 1700 ANT 2	0.084	0.026	0.120	0.043
	WCDMA 1700 ANT 3	0.106	0.067	0.143	0.076
	WCDMA 1900 ANT 2	0.378	0.160	0.469	0.203
	WCDMA 1900 ANT 3	0.226	0.110	0.284	0.139
	LTE Band 2 ANT 2	0.921	0.608	1.117	0.694
	LTE Band 2 ANT 3	0.419	0.144	0.533	0.194
	LTE Band 4 ANT 2	0.418	0.256	0.481	0.281
	LTE Band 4 ANT 3	0.360	0.183	0.473	0.247
	LTE Band 5 ANT 2	0.466	0.397	0.379	0.265
	LTE Band 5 ANT 3	0.328	0.151	0.367	0.172
	LTE Band 12 ANT 2	0.768	0.616	0.702	0.512
	LTE Band 12 ANT 3	0.226	0.095	0.277	0.111
	LTE Band 66 ANT 2	0.461	0.354	0.562	0.394
	LTE Band 66 ANT 3	0.180	0.078	0.212	0.088
	WIFI 2.4G ANT 1	0.113	0.076	0.132	0.087
	WIFI 5G U-NII 1 ANT 1	0.119	0.126	0.118	0.132
	WIFI 5G U-NII 2a ANT 1	0.111	0.119	0.119	0.128
	WIFI 5G U-NII 2c ANT 1	0.103	0.110	0.113	0.123
	WIFI 5G U-NII 3 ANT 1	0.124	0.133	0.130	0.138
BT ANT 1	0.121	0.106	0.146	0.126	
WWAN MAX SAR	0.921	0.616	1.117	0.694	
WIFI/BT MAX SAR	0.124	0.133	0.146	0.138	
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)	1.045	0.749	1.263	0.832	



Simultaneous Tx Combination of GSM/WCDMA/LTE and BT/WIFI (Body).

Test Position		Front	Back	Left	Right	Top	Bottom
Body-worn MAX 1-g SAR(W/Kg)	WCDMA 850 ANT 2	0.019	0.053	/	/	/	/
	WCDMA 850 ANT 3	0.402	0.489	/	/	/	/
	WCDMA 1700 ANT 2	0.044	0.050	/	/	/	/
	WCDMA 1700 ANT 3	0.472	0.520	/	/	/	/
	WCDMA 1900 ANT 2	0.115	0.203	/	/	/	/
	WCDMA 1900 ANT 3	0.530	1.024	/	/	/	/
	LTE Band 2 ANT 2	0.431	0.622	/	/	/	/
	LTE Band 2 ANT 3	0.522	0.902	/	/	/	/
	LTE Band 4 ANT 2	0.154	0.223	/	/	/	/
	LTE Band 4 ANT 3	0.453	0.621	/	/	/	/
	LTE Band 5 ANT 2	0.158	0.289	/	/	/	/
	LTE Band 5 ANT 3	0.386	0.471	/	/	/	/
	LTE Band 12 ANT 2	0.281	0.496	/	/	/	/
	LTE Band 12 ANT 3	0.297	0.436	/	/	/	/
	LTE Band 66 ANT 2	0.101	0.155	/	/	/	/
	LTE Band 66 ANT 3	0.122	0.136	/	/	/	/
	WIFI 2.4G ANT 1	0.030	0.034	/	/	/	/
	WIFI 5G U-NII 1 ANT 1	0.106	0.184	/	/	/	/
	WIFI 5G U-NII 2a ANT 1	0.106	0.205	/	/	/	/
	WIFI 5G U-NII 2c ANT 1	0.098	0.350	/	/	/	/
WIFI 5G U-NII 3 ANT 1	0.138	0.346	/	/	/	/	
BT ANT 1	0.030	0.033	/	/	/	/	
WWAN MAX SAR		0.530	1.024	/	/	/	/
WIFI/BT MAX SAR		0.138	0.350	/	/	/	/
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)		0.668	1.374	/	/	/	/



Simultaneous Tx Combination of GSM/WCDMA/LTE and WIFI (Body).

Test Position		Front	Back	Left	Right	Top	Bottom
Hotspot MAX 1-g SAR(W/Kg)	WCDMA 850 ANT 2	0.019	0.053	0.026	/	0.028	/
	WCDMA 850 ANT 3	0.402	0.489	0.251	0.402	/	0.237
	WCDMA 1700 ANT 2	0.044	0.050	0.026	/	0.032	/
	WCDMA 1700 ANT 3	0.472	0.520	0.222	0.153	/	0.412
	WCDMA 1900 ANT 2	0.115	0.203	0.144	/	0.154	/
	WCDMA 1900 ANT 3	0.530	1.024	0.469	0.100	/	0.926
	LTE Band 2 ANT 2	0.431	0.622	0.584	/	0.273	/
	LTE Band 2 ANT 3	0.522	0.902	0.442	0.074	/	0.980
	LTE Band 4 ANT 2	0.154	0.223	0.175	/	0.155	/
	LTE Band 4 ANT 3	0.453	0.621	0.381	0.132	/	0.348
	LTE Band 5 ANT 2	0.158	0.289	0.074	/	0.083	/
	LTE Band 5 ANT 3	0.386	0.471	0.249	0.420	/	0.221
	LTE Band 12 ANT 2	0.281	0.496	0.214	/	0.120	/
	LTE Band 12 ANT 3	0.297	0.436	0.239	0.330	/	0.410
	LTE Band 66 ANT 2	0.101	0.155	0.152	/	0.071	/
	LTE Band 66 ANT 3	0.122	0.136	0.055	0.084	/	0.120
	WIFI 2.4G ANT 1	0.030	0.034	0.016	/	/	0.043
	WIFI 5G U-NII 1 ANT 1	0.106	0.184	/	/	/	/
	WIFI 5G U-NII 2a ANT 1	0.106	0.205	/	/	/	/
	WIFI 5G U-NII 2c ANT 1	0.098	0.350	/	/	/	/
WIFI 5G U-NII 3 ANT 1	0.138	0.346	/	/	/	/	
BT ANT 1	0.030	0.033	/	/	/	/	
WWAN MAX SAR		0.530	1.024	0.584	0.420	0.273	0.980
WIFI/BT MAX SAR		0.138	0.350	0.016	/	/	0.043
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)		0.668	1.374	0.600	0.420	0.273	1.023

SAR to PeakLocation SeparationRatio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required



13.Measurement Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom ν_{eff} or ν_i
Measurement System								
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	- Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1.0	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	3	N	1	1	3.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
10	- Integration Time	B	3.0	R	$\sqrt{3}$	1	1.73	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞
Uncertainties of the DUT								



15	- Position of the DUT	A	2.6	N	$\sqrt{3}$	1	2.6	5
16	- Holder of the DUT	A	3	N	$\sqrt{3}$	1	3.0	5
17	- Output Power Variation – SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.89	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape and thickness tolerances)	B	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.63	
Expanded uncertainty (Confidence interval of 95 %)				K=2			21.26	

System Check Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom V_{eff} or v_i
Measurement System								
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞



3	– Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	0	N	1	1	0.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	0.00	R	$\sqrt{3}$	1	0.00	∞
10	- Integration Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞
Uncertainties of the DUT								
15	Deviation of experimental source from numerical source	A	4	N	1	1	4.00	5
16	Input Power and SAR drift measurement	A	5	R	$\sqrt{3}$	1	2.89	5
17	Dipole Axis to Liquid Distance	B	2	R	$\sqrt{3}$	1	1.2	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape	B	4	R	$\sqrt{3}$	1	2.31	∞



	and thickness tolerances)							
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.15	
Expanded uncertainty (Confidence interval of 95 %)				K=2			20.29	



14. Equipment List

This table is a complete overview of the SAR measurement equipment. Devices used during the test described are marked .

	EQUIPMENT	Model	Serial number	Calibration Date	Due Date
<input checked="" type="checkbox"/>	SAR Probe	SSE2	SN 32/22 EPGO383	2022/09/05	2023/09/04
<input checked="" type="checkbox"/>	SAR Probe	SSE2	0523-EPGO-403	2023/02/14	2024/02/13
<input checked="" type="checkbox"/>	Dipole	SID750	SN 23/15 DIP0G750-378	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID835	SN 09/13 DIP0G835-217	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID1800	SN 09/13 DIP1G800-216	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID1900	SN 09/13 DIP1G900-218	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID2450	SN 09/13 DIP2G450-220	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SWG5500	SN15/15 WGA39	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Multimeter	Keithley-2000	4014020	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	System Simulator(R&S)	CMW500	130805	2022/06/23	2023/06/22
<input checked="" type="checkbox"/>	KEYSIGHT	E7515A	MY56040357	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Vector Network Analyzer(R&S)	ZVB8	100343	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Signal Generator	SMU100A	177649	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Amplifier	Nucletudes	143060	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Directional Coupler	DC6180A	305827	2022/06/23	2023/06/22
<input checked="" type="checkbox"/>	Power Meter	NRP2	103434	2023/02/20	2024/02/19



ANNEX A: Appendix A: SAR System performance Check Plots

(Please See Appendix A)

ANNEX B: Appendix B: SAR Measurement results Plots

(Please See Appendix B)

ANNEX C: Appendix C: Calibration reports

(Please See Appendix C)

ANNEX D: Appendix D: SAR Test Setup

(Please See Appendix D)

—End of the Report—