



FCC SAR TEST REPORT

Report No.: SET2021-15834

Product: Smart Minipos Terminal

Trade Name: UROVO

Model No.: i2000

FCC ID: SWSI2000

Applicant: UROVO TECHNOLOGY CO., LTD.

Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

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

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Manufacturer.....: UROVO TECHNOLOGY CO., LTD.

Manufacturer Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

Test 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)
RSS-102: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)(Issue 5 of March 2015)
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

Test Date.....: 2021.11.04-2021.11.19

Tested by Xinyuan Fang 2021-11-23
Xinyuan Fang, Test Engineer

Reviewed by.....: Chris You 2021-11-23
Chris You, Senior Engineer

Approved by.....: Shuangwen Zhang 2021-11-23
Shuangwen Zhang, Manager



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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, China

A2LA Accreditation: 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-Designation No.: CCIC Southern Testing Co., Ltd EMC Laboratory has been registered a nd 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 April 19th, 2023

ISED Registration: CAB identifier: CN0064

11185A-1 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 Jun. 30th, 2023.

Test Environment Temperature (°C): 22 °C

Condition: Relative Humidity (%): 57%

Atmospheric Pressure (kPa): 86KPa-106KPa

2. Equipment Under Test (EUT)

Identification of the Equipment under Test

Device Type:	Portable
Exposure Category:	Population/Uncontrolled
Sample Name:	LTE/WCDMA/CDMA/GSM(GPRS) Multi-Mode Digital Mobile POS Machine
Brand Name:	UROVO
Model Name:	i2000

General description:	Test Band	GSM850MHz/1900MHz, CDMA2000 BC0 WCDMA 850MHz/1900MHz/1700MHz, LTE Band 2/4/5/7/12/17/25/26/41/66,WIFI 2.4G, BT
	Device Class	Class B
	Multi Class	GPRS: Class 12; EGPRS: Class 12
	Development Stage	Identical Prototype
	Accessories	Power Supply
	Hotspot	2.4GHz WLAN support Hotspot mode
	Antenna type	Internal Antenna
	Operation mode	GSM /CDMA/WCDMA / LTE /WIFI
	Modulation mode	GSM(GMSK),CDMA2000(QPSK), CDMA2000 1x EV-DO(QPSK/8PSK), UMTS(QPSK),LTE(QPSK,16QAM,64QAM), WIFI(DSSS),BT(GFSK/ π /4-DQPSK/8-DPSK)
	DTM mode	Not support
	Hardware Version	N/A
	Software Version	N/A
	Battery options :	Model No.: HBLI2000 Manufacturer: SHENZHEN CHOLIPOWER TECHNOLOGY CO.,LTD
	Max. SAR Value	Body: 1.190 W/Kg(Limit:1.6W/Kg, 10mm distance)

NOTE:

- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



EUT testing configuration

Tested frequency range(s)	Transmitter Frequency Range	Receiver Frequency Range
GSM850:	824-849 MHz	869-894 MHz
GSM1900:	1850-1910 MHz	1930-1990 MHz
CDMA2000 BC0	824.7-848.31 MHz	869.7-893.31 MHz
UMTS Band II:	1850-1910 MHz	1930-1990 MHz
UMTS Band IV:	1710-1755 MHz	2110-2155 MHz
UMTS Band V:	824-849 MHz	869-894 MHz
LTE Band2:	1850-1910 MHz	1930-1990 MHz
LTE Band4:	1710-1755 MHz	2110-2155 MHz
LTE Band5:	824-849 MHz	869-894 MHz
LTE Band7:	2500-2570 MHz	2620-2690 MHz
LTE Band12:	698-716 MHz	728-746 MHz
LTE Band17:	704-716 MHz	734-746 MHz
LTE Band25:	1850-1915 MHz	1930-1995 MHz
LTE Band26:	814-849 MHz	859-894 MHz
LTE Band41:	2537-2653 MHz	2537-2653 MHz
LTE Band66:	1710-1780 MHz	2110-2200 MHz
WIFI(tested):	2412-2462 MHz	
Bluetooth:	2402-2480 MHz	
Test channels(low-mid-high):	128-190-251(GSM850)	
	512-661-810(GSM1900)	
	1013-384-777(CDMA2000 BC0)	
	9262-9400-9538(UMTS Band II)	
	1312-1412-1513(UMTS Band IV)	
	4132-4183-4233(UMTS Band V)	
	18700-18900-19100(LTE Band 2 Bandwidth 20M)	
	20050-20175-20300(LTE Band 4 Bandwidth 20M)	
	20450-20525-20600(LTE Band 5 Bandwidth 10M)	
	20850-21100-21350(LTE Band 7 Bandwidth 20M)	
	23060-23095-23130(LTE Band 12 Bandwidth 10M)	
	23780-23790-23800(LTE Band 17 Bandwidth 10M)	
	26140-26365-26590 (LTE Band 25 Bandwidth 20M)	
	26765-26865-26965(LTE Band 26 Bandwidth 15M)	
	40140-40640-41140 (LTE Band 41 Bandwidth 20M)	
	132072-132322-132572 (LTE Band 66 Bandwidth 20M)	
1-6-11(Wi-Fi 2.4G 802.11b)		
0-39-78(BT)		



3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Body-worn (10mm Gap)	GSM850	1.190	1.190
	GSM1900	0.979	
	CDMA BC0	0.976	
	WCDMA Band II	0.869	
	WCDMA Band IV	0.542	
	WCDMA Band V	0.765	
	LTE Band 2	0.636	
	LTE Band 4	0.491	
	LTE Band 5	0.714	
	LTE Band 7	0.586	
	LTE Band 12	0.773	
	LTE Band 17	0.630	
	LTE Band 25	0.635	
	LTE Band 26	0.793	
	LTE Band 41	0.361	
	LTE Band 66	0.659	
WIFI 2.4G 802.11b	0.147		

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Hotspot (10mm Gap)	GSM850	1.190	1.190
	GSM1900	0.979	
	CDMA BC0	0.976	
	WCDMA Band II	0.869	
	WCDMA Band IV	0.542	
	WCDMA Band V	0.765	
	LTE Band 2	0.636	
	LTE Band 4	0.491	
	LTE Band 5	0.714	
	LTE Band 7	0.586	
	LTE Band 12	0.773	
	LTE Band 17	0.630	
	LTE Band 25	0.635	
	LTE Band 26	0.793	
	LTE Band 41	0.361	
	LTE Band 66	0.659	
WIFI 2.4G 802.11b	0.159		



Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Scaled 1g-SAR(W/kg)
Body (10mmGap)	WWAN(GSM850)&WIFI 2.4G	1.337

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 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.

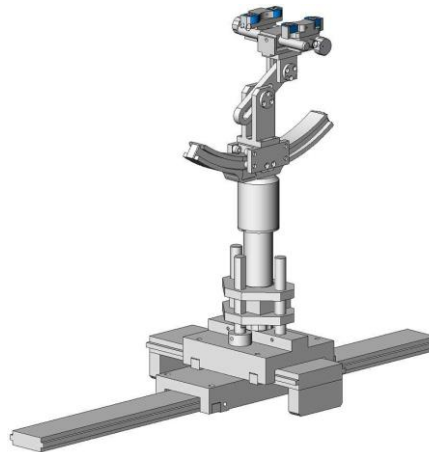


SAM Twin Phantom

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

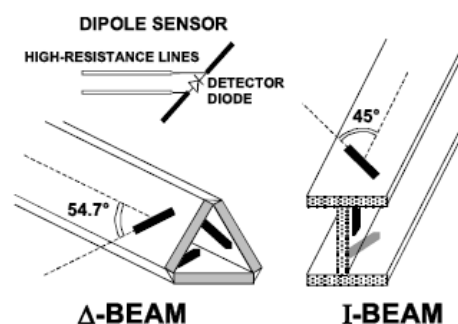


Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	700 MHz to 3 GHz; Linearity: ± 0.5 dB (700 MHz to 3 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 Recommended Tissue Dielectric Parameters

Frequency (MHz)	Tissue	
	Real part of the complex relative permittivity, ϵ_r	Conductivity, σ (S/m)
30	55	0.75
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.9
900	41.5	0.97
1450	40.5	1.2
1800	40	1.4
1900	40	1.4
1950	40	1.4
2000	40	1.4
2100	39.8	1.49
2450	39.2	1.8
2600	39	1.96
3000	38.5	2.4
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48

5.2 liquid check results

Simulate liquid that are used for testing at each frequency, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Dielectric Performance of Tissue Simulating Liquid

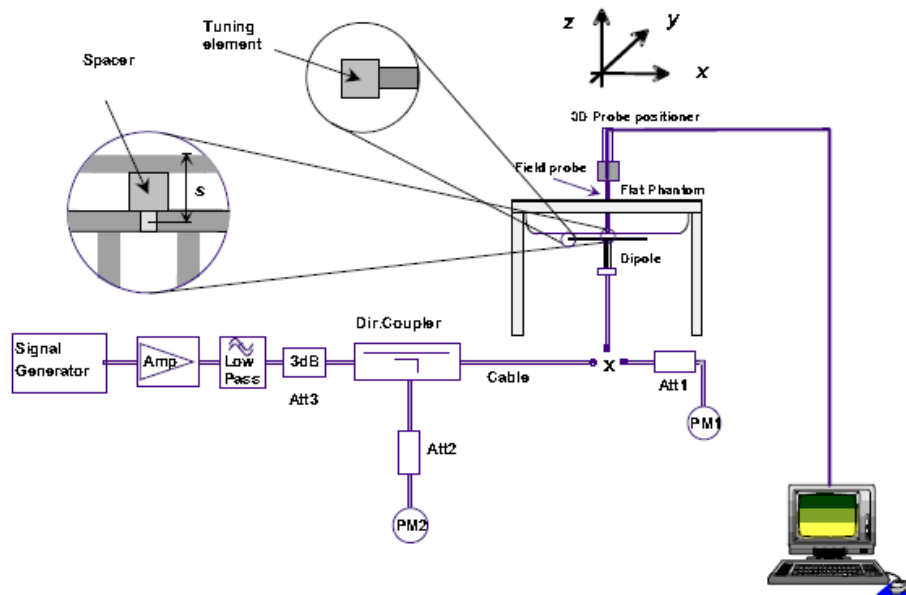
Dielectric Performance of Tissue Simulating Liquid

Temperature: 22 °C; Humidity: 57%;			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	750MHz	41.9±5%	0.89±5%
Validation value (2021-11-18)	750MHz	42.72	0.91
Target value	835MHz	41.5±5%	0.90±5%
Validation value (2021-11-19)	835MHz	41.87	0.98
Target value	1800MHz	40.5±5%	1.40±5%
Validation value (2021-11-14)	1800MHz	40.25	1.39
Target value	1900MHz	40.5±5%	1.40±5%
Validation value (2021-11-06)	1900MHz	39.70	1.42
Target value	2450MHz	39.2±5%	1.80±5%
Validation value (2021-11-04)	2450MHz	38.77	1.82
Target value	2600MHz	39.0±5%	1.96±5%
Validation value (2021-11-04)	2600MHz	38.02	1.98

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.



System Check Results

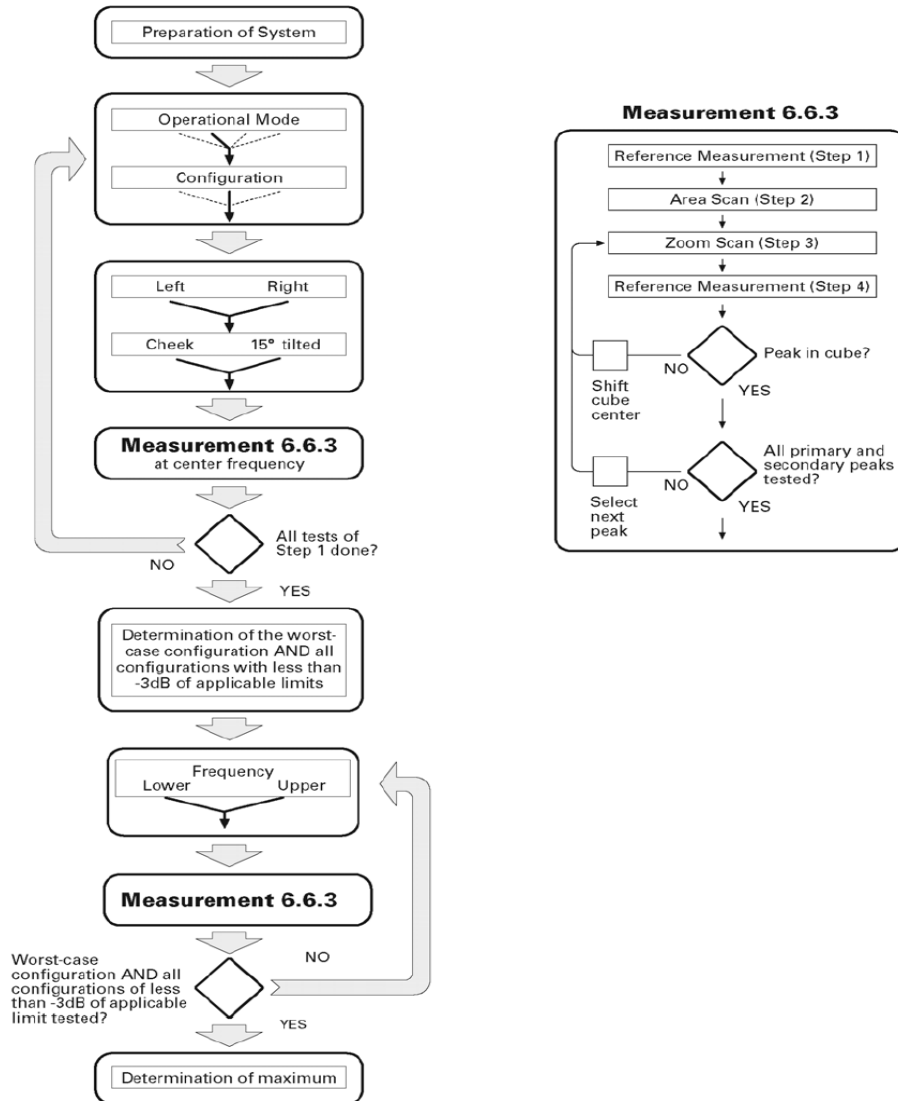
Frequency	Duty cycle	Target value (1-g) (W/Kg)	Test value (1-g) (W/Kg)	Test SAR Normalized to 1W(w/Kg)
750MHz(2021-11-18)	1:1	8.73±10%	0.0848	8.48
835MHz(2021-11-19)	1:1	9.69±10%	0.0974	9.74
1800MHz(2021-11-14)	1:1	37.25±10%	0.3762	37.62
1900MHz(2021-11-06)	1:1	39.71±10%	0.3925	39.25
2450MHz(2021-11-04)	1:1	53.71±10%	0.5412	54.12
2600MHz(2021-11-04)	1:1	56.47±10%	0.5682	56.82

* Note: Target value was referring to the measured value in the calibration certificate of reference dipole.

Note: 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. Conducted RF Output Power

7.1 GSM Conducted Power

GSM850		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		128CH	190CH	251CH		28CH	190CH	251CH
GSM (CS)		31.26	31.21	31.46	-9.03	22.23	22.18	22.43
GPRS (GMSK)	1 Tx Slot	31.16	31.15	31.35	-9.03	22.13	22.12	22.32
	2 Tx Slots	29.70	29.62	29.81	-6.02	23.68	23.60	23.79
	3 Tx Slots	27.76	27.91	28.02	-4.26	23.50	23.65	23.76
	4 Tx Slots	26.48	26.63	26.83	-3.01	23.47	23.62	23.82
EDGE (8PSK)	1 Tx Slot	26.08	26.23	26.29	-9.03	17.05	17.20	17.26
	2 Tx Slots	24.87	25.01	25.02	-6.02	18.85	18.99	19.00
	3 Tx Slots	23.25	23.33	23.44	-4.26	18.99	19.07	19.18
	4 Tx Slots	21.92	22.15	22.21	-3.01	18.91	19.14	19.20
GSM1900		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		512CH	661CH	810CH		512CH	661CH	810CH
GSM (CS)		29.18	29.12	29.47	-9.03	20.15	20.09	20.44
GPRS (GMSK)	1 Tx Slot	29.17	29.10	29.44	-9.03	20.14	20.07	20.41
	2 Tx Slots	28.16	28.09	28.41	-6.02	22.14	22.07	22.39
	3 Tx Slots	26.42	26.38	26.66	-4.26	22.16	22.12	22.40
	4 Tx Slots	24.61	25.16	25.45	-3.01	21.60	22.15	22.44
EDGE (8PSK)	1 Tx Slot	25.74	25.66	25.78	-9.03	16.71	16.63	16.75
	2 Tx Slots	23.90	23.89	23.84	-6.02	17.88	17.87	17.82
	3 Tx Slots	21.75	21.63	21.75	-4.26	17.49	17.37	17.49
	4 Tx Slots	20.42	20.38	20.93	-3.01	17.41	17.37	17.92

Note:

Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

For hotspot SAR, EUT was performed at GPRS Class 12 multi-slots(4Tx) mode

For Head and Body-worn SAR testing, EUT was set in GSM Voice mode for both GSM850 and GSM1900

Timeslot consignations

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2UpDown	3UpDown	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Crest Factor	-9.03dB	-6.02dB	-4.26dB	-3.01dB

7.2 CDMA Conducted output Power

CDMA BC0	Average Power (dBm)		
	1013CH	384CH	777cH
RC1 + SO55	23.28	23.36	23.51
RC3 + SO55	23.23	23.15	23.25
RC3 + SO32(+ F-SCH)	23.16	23.04	23.10
RC3 + SO32(+SCH)	23.05	22.95	22.90
1xEVDO Rev A RETAP	22.94	22.87	22.89

Note:

Per KDB 941225 D01, SAR for RC1 is not required when the maximum average output of each channel is less than ¼ dB higher than that measured in RC3.

Per KDB 941225 D01, SAR for body exposure configurations is measured in RC3 with the DUT configured using TDSO/SO32, to transmit at full rate on FCH with all other code channels disabled.

Per KDB 941225 D01, SAR for multiple code channels (FCH + SCHn) is not required when the maximum average output of each RF channel is less than ¼ dB higher than that measured with FCH only.

7.3 WCDMA Conducted output Power

UMTS1900 (Band II)		Average Power (dBm)		
		9262CH	9400CH	9538cH
WCDMA	12.2kbps RMC	23.34	23.32	23.33
HSDPA	Subtest 1	24.17	23.47	23.52
	Subtest 2	23.76	23.06	23.11
	Subtest 3	23.37	22.67	22.72
	Subtest 4	23.16	22.46	22.51
HSUPA	Subtest 1	24.07	23.97	23.75
	Subtest 2	23.62	23.52	23.30
	Subtest 3	23.23	23.13	22.91
	Subtest 4	22.95	22.85	22.63
	Subtest 5	22.76	22.66	22.44
UMTS1700 (Band IV)		Average Power (dBm)		
		1313CH	1413CH	1513CH
WCDMA	12.2kbps RMC	23.22	23.21	23.41
HSDPA	Subtest 1	23.73	23.60	23.78
	Subtest 2	23.32	23.19	23.37
	Subtest 3	22.93	22.80	22.98
	Subtest 4	22.72	22.59	22.77
HSUPA	Subtest 1	23.96	24.16	24.35
	Subtest 2	23.51	23.36	24.23
	Subtest 3	23.12	22.97	23.84
	Subtest 4	22.84	22.69	23.56
	Subtest 5	22.65	22.50	23.37
UMTS850 (Band V)		Average Power (dBm)		
		4132CH	4183CH	4233CH
WCDMA	12.2kbps RMC	23.36	23.41	23.40
HSDPA	Subtest 1	23.20	23.11	23.16
	Subtest 2	22.79	22.70	22.75
	Subtest 3	22.40	22.31	22.36
	Subtest 4	22.19	22.10	22.15
HSUPA	Subtest 1	23.77	23.71	22.22
	Subtest 2	23.65	23.64	23.66
	Subtest 3	23.26	23.25	23.27
	Subtest 4	22.98	22.97	22.99
	Subtest 5	22.79	22.78	22.80

Note:

- WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. HSPA SAR was not required 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.
- 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

7.4 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 1RBallocation

Start with the largest channel bandwidth an measure SAR for QPSK with1RB allocation, using theRBoffsetandrequiredtestchannelcombinationwiththehighestmaximumoutputpowerforRB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is $\leq 0.8\text{W/kg}$, 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 $> 1.45\text{W/kg}$, 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				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	22.56	22.61	22.42	22.0±1.0
		1	3	22.43	22.51	22.30	
		1	5	22.45	22.50	22.29	
		3	0	21.73	21.79	21.57	21.0±1.0
		3	2	21.74	21.78	21.54	
		3	3	21.75	21.80	21.55	
	6	0	21.61	21.67	21.44	21.0±1.0	
	16QAM	1	0	21.43	21.46	21.31	20.5±1.0
		1	3	21.28	21.35	21.18	
		1	5	21.41	21.43	21.30	
		3	0	20.50	20.54	20.49	20.0±1.0
		3	2	20.58	20.64	20.52	
		3	3	20.60	20.65	20.46	
		6	0	20.48	20.55	20.31	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	22.78	22.95	22.85	22.0±1.0
		1	7	22.65	22.85	22.73	
		1	14	22.67	22.84	22.72	
		8	0	21.95	22.13	22.00	21.5±1.0
		8	4	21.96	22.12	21.97	
		8	7	21.97	22.14	21.98	
		15	0	21.83	22.01	21.87	21.5±1.0
	16QAM	1	0	21.65	21.80	21.74	21.0±1.0
		1	7	21.50	21.69	21.61	
		1	14	21.63	21.77	21.73	
		8	0	20.72	20.88	20.92	20.0±1.0
		8	4	20.80	20.98	20.95	
		8	7	20.82	20.99	20.89	
		15	0	20.70	20.89	20.74	20.0±1.0



LTE FDD Band 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	22.89	23.01	22.79	22.5±1.0
		1	13	22.76	22.91	22.67	
		1	24	22.78	22.90	22.66	
		12	0	22.06	22.19	21.94	21.5±1.0
		12	6	22.07	22.18	21.91	
		12	13	22.08	22.20	21.92	
		25	0	21.94	22.07	21.81	21.5±1.0
	16QAM	1	0	21.76	21.86	21.68	21.0±1.0
		1	13	21.61	21.75	21.55	
		1	24	21.74	21.83	21.67	
		12	0	20.83	20.94	20.86	20.5±1.0
		12	6	20.91	21.04	20.89	
		12	13	20.93	21.05	20.83	
		25	0	20.81	20.95	20.68	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	23.23	23.05	23.11	22.5±1.0
		1	25	23.10	22.95	22.99	
		1	49	23.12	22.94	22.98	
		25	0	22.40	22.23	22.26	21.5±1.0
		25	13	22.41	22.22	22.23	
		25	25	22.42	22.24	22.24	
		50	0	22.28	22.11	22.13	21.5±1.0
	16QAM	1	0	22.10	21.90	22.00	21.5±1.0
		1	25	21.95	21.79	21.87	
		1	49	22.08	21.87	21.99	
		25	0	21.17	20.98	21.18	20.5±1.0
		25	13	21.25	21.08	21.21	
		25	25	21.27	21.09	21.15	
		50	0	21.15	20.99	21.00	20.5±1.0



LTE FDD Band 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	22.35	22.26	22.15	21.5±1.0
		1	38	22.22	22.16	22.03	
		1	74	22.24	22.15	22.02	
		36	0	21.52	21.44	21.30	21.0±1.0
		36	18	21.53	21.43	21.27	
		36	39	21.54	21.45	21.28	
		75	0	21.40	21.32	21.17	20.5±1.0
	16QAM	1	0	21.22	21.11	21.04	20.5±1.0
		1	38	21.07	21.00	20.91	
		1	74	21.20	21.08	21.03	
		36	0	20.29	20.19	20.22	19.5±1.0
		36	18	20.37	20.29	20.25	
		36	39	20.39	20.30	20.19	
		75	0	20.27	20.20	20.04	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	23.42	23.50	23.25	23.0±1.0
		1	50	23.23	23.35	23.15	
		1	99	23.25	23.34	23.14	
		50	0	22.73	22.68	22.72	22.0±1.0
		50	25	22.64	22.56	22.66	
		50	50	22.59	22.78	22.51	
		100	0	22.41	22.66	22.38	22.0±1.0
	16QAM	1	0	22.23	22.30	22.16	21.5±1.0
		1	50	22.08	22.19	22.03	
		1	99	22.21	22.27	22.15	
		50	0	21.30	21.38	21.34	20.5±1.0
		50	25	21.38	21.48	21.37	
		50	50	21.40	21.49	21.31	
		100	0	21.28	21.39	21.16	20.5±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				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	22.02	22.25	22.16	21.5±1.0
		1	3	21.89	22.15	22.04	
		1	5	21.91	22.14	22.03	
		3	0	21.19	21.43	21.31	20.5±1.0
		3	2	21.20	21.42	21.28	
		3	3	21.21	21.44	21.29	
		6	0	21.07	21.31	21.18	20.5±1.0
	16QAM	1	0	20.89	21.10	21.05	20.5±1.0
		1	3	20.74	20.99	20.92	
		1	5	20.87	21.07	21.04	
		3	0	19.96	20.18	20.23	19.5±1.0
		3	2	20.04	20.28	20.26	
		3	3	20.06	20.29	20.2	
		6	0	19.94	20.19	20.05	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	22.12	22.43	22.36	21.5±1.0
		1	7	21.99	22.33	22.24	
		1	14	22.01	22.32	22.23	
		8	0	21.29	21.61	21.51	21.0±1.0
		8	4	21.30	21.60	21.48	
		8	7	21.31	21.62	21.49	
		15	0	21.17	21.49	21.38	20.5±1.0
	16QAM	1	0	20.99	21.28	21.25	20.5±1.0
		1	7	20.84	21.17	21.12	
		1	14	20.97	21.25	21.24	
		8	0	20.06	20.36	20.43	19.5±1.0
		8	4	20.14	20.46	20.46	
		8	7	20.16	20.47	20.40	
		15	0	20.04	20.37	20.25	19.5±1.0



LTE FDD Band 4				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	22.55	22.34	22.46	22.0±1.0
		1	13	22.42	22.24	22.34	
		1	24	22.44	22.23	22.33	
		12	0	21.72	21.52	21.61	21.0±1.0
		12	6	21.73	21.51	21.58	
		12	13	21.74	21.53	21.59	
		25	0	21.60	21.40	21.48	21.0±1.0
	16QAM	1	0	21.42	21.19	21.35	20.5±1.0
		1	13	21.27	21.08	21.22	
		1	24	21.40	21.16	21.34	
		12	0	20.49	20.27	20.53	20.0±1.0
		12	6	20.57	20.37	20.56	
		12	13	20.59	20.38	20.50	
		25	0	20.47	20.28	20.35	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	22.89	22.72	22.85	22.0±1.0
		1	25	22.76	22.62	22.73	
		1	49	22.78	22.61	22.72	
		25	0	22.06	21.90	22.00	21.5±1.0
		25	13	22.07	21.89	21.97	
		25	25	22.08	21.91	21.98	
		50	0	21.94	21.78	21.87	21.0±1.0
	16QAM	1	0	21.76	21.57	21.74	21.0±1.0
		1	25	21.61	21.46	21.61	
		1	49	21.74	21.54	21.73	
		25	0	20.83	20.65	20.92	20.0±1.0
		25	13	20.91	20.75	20.95	
		25	25	20.93	20.76	20.89	
		50	0	20.81	20.66	20.74	20.0±1.0



LTE FDD Band 4				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	22.78	22.85	22.65	22.0±1.0
		1	38	22.65	22.75	22.53	
		1	74	22.67	22.74	22.52	
		36	0	21.95	22.03	21.80	21.5±1.0
		36	18	21.96	22.02	21.77	
		36	39	21.97	22.04	21.78	
		75	0	21.83	21.91	21.67	21.0±1.0
	16QAM	1	0	21.65	21.70	21.54	21.0±1.0
		1	38	21.50	21.59	21.41	
		1	74	21.63	21.67	21.53	
		36	0	20.72	20.78	20.72	20.0±1.0
		36	18	20.80	20.88	20.75	
		36	39	20.82	20.89	20.69	
		75	0	20.70	20.79	20.54	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	23.15	23.27	23.10	23.0±1.0
		1	50	23.13	23.68	23.44	
		1	99	23.15	23.67	23.43	
		50	0	22.21	22.16	22.26	21.5±1.0
		50	25	22.27	22.24	22.31	
		50	50	22.33	22.28	22.34	
		100	0	22.04	22.10	22.12	21.5±1.0
	16QAM	1	0	22.13	22.63	22.45	22.0±1.0
		1	50	21.98	22.52	22.32	
		1	99	22.11	22.60	22.44	
		50	0	21.20	21.71	21.63	21.0±1.0
		50	25	21.28	21.81	21.66	
		50	50	21.30	21.82	21.60	
		100	0	21.18	21.72	21.45	21.0±1.0



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				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	22.56	22.81	22.65	22.0±1.0
		1	3	22.43	22.70	22.54	
		1	5	22.41	22.66	22.51	
		3	0	21.75	21.95	21.79	21.0±1.0
		3	2	21.71	21.98	21.83	
		3	3	21.72	21.97	21.78	
	6	0	21.57	21.78	21.68	21.0±1.0	
	16QAM	1	0	21.43	21.69	21.50	21.0±1.0
		1	3	21.32	21.54	21.39	
		1	5	21.41	21.65	21.48	
		3	0	20.52	20.77	20.67	20.0±1.0
		3	2	20.55	20.86	20.73	
		3	3	20.61	20.88	20.64	
		6	0	20.47	20.70	20.43	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	22.76	22.96	23.01	22.5±1.0
		1	7	22.61	22.82	22.87	
		1	14	22.65	22.83	22.86	
		8	0	21.94	22.11	22.18	21.5±1.0
		8	4	21.95	22.14	22.20	
		8	7	21.96	22.12	22.13	
		15	0	21.78	21.99	22.02	21.5±1.0
	16QAM	1	0	21.64	21.83	21.84	21.0±1.0
		1	7	21.49	21.68	21.69	
		1	14	21.61	21.77	21.81	
		8	0	20.72	20.89	21.03	20.5±1.0
		8	4	20.78	21.01	21.12	
		8	7	20.83	20.99	21.01	
		15	0	20.68	20.83	20.77	20.0±1.0



LTE FDD Band 5				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	23.23	23.17	23.02	22.5±1.0
		1	13	23.08	23.02	22.91	
		1	24	23.10	23.05	22.87	
		12	0	22.41	22.34	22.21	21.5±1.0
		12	6	22.42	22.33	22.18	
		12	13	22.40	22.30	22.17	
	25	0	22.26	22.18	22.23	21.5±1.0	
	16QAM	1	0	22.09	22.05	21.86	21.5±1.0
		1	13	21.96	21.91	21.72	
		1	24	22.04	22.03	21.79	
		12	0	21.15	21.13	21.01	20.5±1.0
		12	6	21.28	21.19	21.14	
12		13	21.27	21.22	21.00		
25	0	21.12	21.11	20.76	20.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	23.65	23.78	23.55	23.0±1.0
		1	25	23.39	23.60	23.28	
		1	49	23.41	23.60	23.32	
		25	0	22.46	22.53	22.55	22.0±1.0
		25	13	22.18	22.32	22.25	
		25	25	22.03	22.13	21.91	
	50	0	22.39	22.27	22.35	21.5±1.0	
	16QAM	1	0	22.44	22.57	22.28	22.0±1.0
		1	25	22.33	22.46	22.17	
		1	49	22.39	22.49	22.25	
		25	0	21.53	21.63	21.44	21.0±1.0
		25	13	21.58	21.68	21.52	
25		25	21.59	21.71	21.40		
50	0	21.46	21.54	21.18	21.0±1.0		



4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	23.02	22.56	22.69	22.5±1.0
		1	13	22.91	22.41	22.54	
		1	24	22.89	22.43	22.58	
		12	0	22.14	21.71	21.86	21.5±1.0
		12	6	22.17	21.75	21.83	
		12	13	22.19	21.73	21.84	
		25	0	22.03	21.53	21.75	21.5±1.0
	16QAM	1	0	21.91	21.44	21.53	21.0±1.0
		1	13	21.79	21.31	21.42	
		1	24	21.86	21.39	21.52	
		12	0	21.00	20.46	20.68	20.5±1.0
		12	6	21.03	20.60	20.77	
		12	13	21.05	20.55	20.70	
		25	0	20.94	20.40	20.58	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	23.10	22.76	23.01	22.5±1.0
		1	25	22.99	22.61	22.86	
		1	49	22.97	22.63	22.90	
		25	0	22.22	21.91	22.18	21.5±1.0
		25	13	22.25	21.95	22.15	
		25	25	22.27	21.93	22.16	
		50	0	22.11	21.73	22.07	21.5±1.0
	16QAM	1	0	21.99	21.64	21.85	21.0±1.0
		1	25	21.87	21.51	21.74	
		1	49	21.94	21.59	21.84	
		25	0	21.08	20.66	21.00	20.5±1.0
		25	13	21.11	20.80	21.09	
		25	25	21.13	20.75	21.02	
		50	0	21.02	20.60	20.90	20.5±1.0



LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	23.23	23.02	23.17	22.5±1.0
		1	38	23.12	22.87	23.02	
		1	74	23.10	22.89	23.06	
		36	0	22.35	22.17	22.34	21.5±1.0
		36	18	22.38	22.21	22.31	
		36	39	22.4	22.19	22.32	
		75	0	22.24	21.99	22.23	21.5±1.0
	16QAM	1	0	22.12	21.90	22.01	21.5±1.0
		1	38	22.00	21.77	21.90	
		1	74	22.07	21.85	22.00	
		36	0	21.21	20.92	21.16	20.5±1.0
		36	18	21.24	21.06	21.25	
		36	39	21.26	21.01	21.18	
		75	0	21.15	20.86	21.06	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	23.62	23.57	23.43	23.0±1.0
		1	50	23.51	23.42	23.28	
		1	99	23.49	23.44	23.32	
		50	0	22.65	22.45	22.60	22.0±1.0
		50	25	22.77	22.96	22.72	
		50	50	22.69	22.74	22.58	
		100	0	22.63	22.88	22.49	22.0±1.0
	16QAM	1	0	22.51	22.45	22.27	22.0±1.0
		1	50	22.39	22.32	22.16	
		1	99	22.46	22.40	22.26	
		50	0	21.60	21.47	21.42	21.0±1.0
		50	25	21.63	21.61	21.51	
		50	50	21.65	21.56	21.44	
		100	0	21.54	21.41	21.32	21.0±1.0



5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	22.35	22.52	22.66	22.0±1.0
		1	3	22.23	22.40	22.54	
		1	5	22.24	22.41	22.53	
		3	0	21.50	21.70	21.84	21.0±1.0
		3	2	21.53	21.67	21.82	
		3	3	21.47	21.71	21.83	
	6	0	21.37	21.57	21.69	21.0±1.0	
	16QAM	1	0	21.22	21.37	21.54	21.0±1.0
		1	3	21.11	21.26	21.41	
		1	5	21.20	21.34	21.49	
		3	0	20.27	20.42	20.70	20.0±1.0
		3	2	20.39	20.55	20.81	
3		3	20.38	20.52	20.73		
6	0	20.20	20.39	20.51	20.0±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	22.45	22.64	22.75	22.0±1.0
		1	7	22.33	22.52	22.63	
		1	14	22.34	22.53	22.62	
		8	0	21.60	21.82	21.93	21.0±1.0
		8	4	21.63	21.79	21.91	
		8	7	21.57	21.83	21.92	
	15	0	21.47	21.69	21.78	21.0±1.0	
	16QAM	1	0	21.32	21.49	21.63	21.0±1.0
		1	7	21.21	21.38	21.50	
		1	14	21.30	21.46	21.58	
		8	0	20.37	20.54	20.79	20.0±1.0
		8	4	20.49	20.67	20.90	
8		7	20.48	20.64	20.82		
15	0	20.30	20.51	20.60	20.0±1.0		



LTE FDD Band 12				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	22.89	22.96	22.91	22.0±1.0
		1	13	22.77	22.84	22.79	
		1	24	22.78	22.85	22.78	
		12	0	22.04	22.14	22.09	21.5±1.0
		12	6	22.07	22.11	22.07	
		12	13	22.01	22.15	22.08	
		25	0	21.91	22.01	21.94	21.5±1.0
	16QAM	1	0	21.76	21.81	21.79	21.0±1.0
		1	13	21.65	21.70	21.66	
		1	24	21.74	21.78	21.74	
		12	0	20.81	20.86	20.95	20.5±1.0
		12	6	20.93	20.99	21.06	
		12	13	20.92	20.96	20.98	
		25	0	20.74	20.83	20.76	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.10	23.15	23.05	22.5±1.0
		1	25	22.93	23.00	22.89	
		1	49	22.94	23.01	22.88	
		25	0	22.20	22.05	22.23	21.5±1.0
		25	13	22.10	21.81	22.15	
		25	25	22.16	22.27	22.24	
		50	0	22.07	21.92	22.11	21.5±1.0
	16QAM	1	0	21.92	21.97	21.89	21.0±1.0
		1	25	21.81	21.86	21.76	
		1	49	21.90	21.94	21.84	
		25	0	20.97	21.02	21.05	20.5±1.0
		25	13	21.09	21.15	21.16	
		25	25	21.08	21.12	21.08	
		50	0	20.90	20.99	20.86	20.0±1.0



6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	23.02	23.13	22.88	22.5±1.0
		1	13	22.91	23.00	22.74	
		1	24	22.87	23.01	22.73	
		12	0	22.37	22.47	22.05	21.5±1.0
		12	6	22.14	22.28	22.00	
		12	13	22.18	22.31	22.07	
	16QAM	25	0	22.20	22.34	21.88	21.5±1.0
		1	0	21.90	22.00	21.74	21.5±1.0
		1	13	21.79	21.85	21.59	
		1	24	21.89	21.97	21.71	
		20.5±1.0	12	0	20.99	21.05	20.89
			12	6	21.02	21.18	20.96
12	13		21.04	21.16	20.85		
25	0	20.90	21.04	20.73	20.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	23.08	23.21	23.02	22.5±1.0
		1	25	23.00	23.15	22.83	
		1	49	22.98	23.02	22.81	
		21.5±1.0	25	0	22.24	22.32	22.27
			25	13	21.97	21.95	22.15
			25	25	21.72	21.72	22.24
			50	0	21.19	21.64	22.29
	16QAM	1	0	21.99	22.00	21.85	21.5±1.0
		1	25	21.85	21.89	21.69	
		1	49	21.97	21.98	21.80	
		20.5±1.0	25	0	21.05	21.05	21.00
			25	13	21.16	20.97	21.11
			25	25	21.17	21.07	21.03
			50	0	21.06	20.17	20.80



7. LTE Band 25 Conducted Power Test Verdict:

LTE FDD Band 25				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	22.68	22.84	22.93	22.0±1.0
		1	3	22.53	22.71	22.78	
		1	5	22.50	22.69	22.74	
		3	0	21.85	22.00	22.08	21.5±1.0
		3	2	21.80	22.01	22.04	
		3	3	21.79	22.02	22.05	
		6	0	21.74	21.85	21.94	21.0±1.0
	16QAM	1	0	21.56	21.67	21.80	21.0±1.0
		1	3	21.41	21.54	21.67	
		1	5	21.51	21.62	21.72	
		3	0	20.60	20.74	20.99	20.5±1.0
		3	2	20.71	20.63	21.04	
		3	3	20.69	20.69	20.95	
		6	0	20.56	19.82	20.71	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	21.78	22.02	22.09	21.5±1.0
		1	7	21.63	21.89	21.94	
		1	14	21.60	21.87	21.90	
		8	0	20.95	21.18	21.24	20.5±1.0
		8	4	20.90	21.19	21.20	
		8	7	20.89	21.20	21.21	
		15	0	20.84	21.03	21.10	20.5±1.0
	16QAM	1	0	20.66	20.85	20.96	20.0±1.0
		1	7	20.51	20.72	20.83	
		1	14	20.61	20.80	20.88	
		8	0	19.70	19.92	20.15	19.5±1.0
		8	4	19.81	19.81	20.20	
		8	7	19.79	19.87	20.11	
		15	0	19.66	19.00	19.87	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	26055/1851.5	26365/1882.5	26675/1913.5	Tune up



LTE FDD Band 25				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	22.02	22.11	22.16	21.5±1.0
		1	13	21.87	21.99	22.05	
		1	24	21.83	21.96	22.04	
		12	0	21.17	21.25	21.33	20.5±1.0
		12	6	21.11	21.24	21.21	
		12	13	21.09	21.25	21.21	
		25	0	21.04	21.07	21.2	20.5±1.0
	16QAM	1	0	20.87	20.97	21.02	20.5±1.0
		1	13	20.69	20.86	20.87	
		1	24	20.83	20.92	20.94	
		12	0	19.91	20.04	20.19	19.5±1.0
		12	6	20.02	19.98	20.31	
		12	13	20.04	19.99	20.17	
		25	0	19.9	19.19	19.88	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	22.12	22.25	22.26	21.5±1.0
		1	25	22.00	22.10	22.13	
		1	49	21.98	22.12	22.11	
		25	0	21.31	21.40	21.42	20.5±1.0
		25	13	21.27	21.44	21.35	
		25	25	21.26	21.41	21.34	
		50	0	21.19	21.28	21.30	20.5±1.0
	16QAM	1	0	20.99	21.10	21.15	20.5±1.0
		1	25	20.85	20.99	20.99	
		1	49	20.97	21.08	21.10	
		25	0	20.05	20.15	20.3	19.5±1.0
		25	13	20.16	20.07	20.41	
		25	25	20.17	20.17	20.33	
		50	0	20.06	19.27	20.10	19.5±1.0



LTE FDD Band 25				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	22.27	22.32	22.33	21.5±1.0
		1	38	22.12	22.20	22.22	
		1	74	22.08	22.17	22.21	
		36	0	21.42	21.46	21.50	21.0±1.0
		36	18	21.36	21.45	21.38	
		36	39	21.34	21.46	21.38	
		75	0	21.29	21.28	21.37	20.5±1.0
	16QAM	1	0	21.12	21.18	21.19	20.5±1.0
		1	38	20.94	21.07	21.04	
		1	74	21.08	21.13	21.11	
		36	0	20.16	20.25	20.36	19.5±1.0
		36	18	20.27	20.19	20.48	
		36	39	20.29	20.20	20.34	
		75	0	20.15	19.40	20.05	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	22.72	22.99	22.69	22.0±1.0
		1	50	22.43	22.48	22.37	
		1	99	22.16	22.24	22.25	
		50	0	21.57	21.73	21.60	21.0±1.0
		50	25	21.44	21.52	21.42	
		50	50	21.42	21.23	21.35	
		100	0	21.37	21.31	21.41	20.5±1.0
	16QAM	1	0	20.20	21.25	21.23	20.5±1.0
		1	50	20.02	21.14	21.08	
		1	99	20.16	21.20	21.15	
		50	0	19.24	20.32	20.40	20.0±1.0
		50	25	19.35	20.26	20.52	
		50	50	19.37	20.27	20.38	
		100	0	19.23	19.47	20.09	19.5±1.0



7. LTE Band 26 Conducted Power Test Verdict:

LTE FDD Band 26				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	21.75	21.89	21.79	21.0±1.0
		1	3	21.60	21.76	21.64	
		1	5	21.57	21.74	21.60	
		3	0	20.92	21.05	20.94	20.5±1.0
		3	2	20.87	21.06	20.90	
		3	3	20.86	21.07	20.91	
		6	0	20.81	20.90	20.80	20.0±1.0
	16QAM	1	0	20.63	20.72	20.66	20.0±1.0
		1	3	20.48	20.59	20.53	
		1	5	20.58	20.67	20.58	
		3	0	19.67	19.79	19.85	19.0±1.0
		3	2	19.78	19.68	19.90	
		3	3	19.76	19.74	19.81	
		6	0	19.63	18.87	19.57	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	22.00	22.12	22.05	21.5±1.0
		1	7	21.85	22.00	21.94	
		1	14	21.81	21.97	21.93	
		8	0	21.15	21.26	21.22	20.5±1.0
		8	4	21.09	21.25	21.10	
		8	7	21.07	21.26	21.10	
		15	0	21.02	21.08	21.09	20.5±1.0
	16QAM	1	0	20.85	20.98	20.91	20.0±1.0
		1	7	20.67	20.87	20.76	
		1	14	20.81	20.93	20.83	
		8	0	19.89	20.05	20.08	19.5±1.0
		8	4	20.00	19.99	20.20	
		8	7	20.02	20.00	20.06	
		15	0	19.88	19.20	19.77	19.0±1.0



LTE FDD Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	22.13	22.25	22.24	21.5±1.0
		1	13	21.98	22.13	22.13	
		1	24	21.94	22.10	22.12	
		12	0	21.28	21.39	21.41	20.5±1.0
		12	6	21.22	21.38	21.29	
		12	13	21.20	21.39	21.29	
		25	0	21.15	21.21	21.28	20.5±1.0
	16QAM	1	0	20.98	21.11	21.10	20.5±1.0
		1	13	20.80	21.00	20.95	
		1	24	20.94	21.06	21.02	
		12	0	20.02	20.18	20.27	19.5±1.0
		12	6	20.13	20.12	20.39	
		12	13	20.15	20.13	20.25	
		25	0	20.01	19.33	19.96	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	22.25	22.34	22.35	21.5±1.0
		1	25	22.10	22.22	22.24	
		1	49	22.06	22.19	22.23	
		25	0	21.40	21.48	21.52	21.0±1.0
		25	13	21.34	21.47	21.40	
		25	25	21.32	21.48	21.40	
		50	0	21.27	21.30	21.39	20.5±1.0
	16QAM	1	0	21.10	21.20	21.21	20.5±1.0
		1	25	20.92	21.09	21.06	
		1	49	21.06	21.15	21.13	
		25	0	20.14	20.27	20.38	20.0±1.0
		25	13	20.25	20.21	20.50	
		25	25	20.27	20.22	20.36	
		50	0	20.13	19.42	20.07	19.5±1.0



LTE FDD Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26765/821.5	26865/831.52	26965/841.5	
15MHz	QPSK	1	0	22.42	22.63	22.46	22.0±1.0
		1	38	22.20	22.30	22.29	
		1	74	22.16	22.27	22.28	
		36	0	21.57	21.79	21.63	21.0±1.0
		36	18	21.44	21.55	21.45	
		36	39	21.42	21.56	21.45	
		75	0	21.37	21.38	21.44	20.5±1.0
	16QAM	1	0	21.20	21.28	21.26	20.5±1.0
		1	38	21.02	21.17	21.11	
		1	74	21.16	21.23	21.18	
		36	0	20.24	20.35	20.43	20.0±1.0
		36	18	20.35	20.29	20.55	
		36	39	20.37	20.30	20.41	
		75	0	20.23	19.50	20.12	19.5±1.0



7. LTE Band 41 Conducted Power Test Verdict:

LTE TDD Band 41				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				40065/2537.5	40640/2595.0	41215/2652.5	
5MHz	QPSK	1	0	22.02	22.09	21.85	21.5±1.0
		1	13	21.87	21.97	21.74	
		1	24	21.83	21.94	21.73	
		12	0	21.17	21.23	21.02	20.5±1.0
		12	6	21.11	21.22	20.90	
		12	13	21.09	21.23	20.90	
		25	0	21.04	21.05	20.89	20.5±1.0
	16QAM	1	0	20.87	20.95	20.71	20.0±1.0
		1	13	20.69	20.84	20.56	
		1	24	20.83	20.90	20.63	
		12	0	19.91	20.02	19.88	19.5±1.0
		12	6	20.02	19.96	20.00	
		12	13	20.04	19.97	19.86	
		25	0	19.90	19.17	19.57	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	22.08	22.13	21.96	21.5±1.0
		1	25	21.93	22.01	21.85	
		1	49	21.89	21.98	21.84	
		25	0	21.23	21.27	21.13	20.5±1.0
		25	13	21.17	21.26	21.01	
		25	25	21.15	21.27	21.01	
		50	0	21.10	21.09	21.00	20.5±1.0
	16QAM	1	0	20.93	20.99	20.82	20.0±1.0
		1	25	20.75	20.88	20.67	
		1	49	20.89	20.94	20.74	
		25	0	19.97	20.06	19.99	19.5±1.0
		25	13	20.08	20.00	20.11	
		25	25	20.10	20.01	19.97	
		50	0	19.96	19.21	19.68	19.0±1.0



LTE TDD Band 41				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40115/2542.5	40640/2595.0	41165/2647.5	
15MHz	QPSK	1	0	22.12	22.17	22.02	21.5±1.0
		1	38	21.97	22.05	21.91	
		1	74	21.93	22.02	21.9	
		36	0	21.27	21.31	21.19	20.5±1.0
		36	18	21.21	21.3	21.07	
		36	39	21.19	21.31	21.07	
		75	0	21.14	21.13	21.06	20.5±1.0
	16QAM	1	0	20.97	21.03	20.88	20.5±1.0
		1	38	20.79	20.92	20.73	
		1	74	20.93	20.98	20.8	
		36	0	20.01	20.1	20.05	19.5±1.0
		36	18	20.12	20.04	20.17	
		36	39	20.14	20.05	20.03	
		75	0	20.00	19.25	19.74	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40140/2545.0	40640/2595.0	41140/2645.0	
20MHz	QPSK	1	0	22.18	22.25	22.16	21.5±1.0
		1	50	22.00	22.09	21.95	
		1	99	21.96	22.06	21.94	
		50	0	21.33	21.39	21.33	20.5±1.0
		50	25	21.24	21.34	21.11	
		50	50	21.22	21.35	21.11	
		100	0	21.17	21.17	21.10	20.5±1.0
	16QAM	1	0	21.00	21.07	20.92	20.5±1.0
		1	50	20.82	20.96	20.77	
		1	99	20.96	21.02	20.84	
		50	0	20.04	20.14	20.09	19.5±1.0
		50	25	20.15	20.08	20.21	
		50	50	20.17	20.09	20.07	
		100	0	20.03	19.29	19.78	19.5±1.0



7. LTE Band 66 Conducted Power Test Verdict:

LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.75	21.67	21.45	21.0±1.0
		1	3	21.62	21.57	21.33	
		1	5	21.64	21.56	21.32	
		3	0	20.92	20.85	20.60	20.0±1.0
		3	2	20.93	20.84	20.57	
		3	3	20.94	20.86	20.58	
		6	0	20.80	20.73	20.47	20.0±1.0
	16QAM	1	0	20.62	20.52	20.34	20.0±1.0
		1	3	20.47	20.41	20.21	
		1	5	20.60	20.49	20.33	
		3	0	19.69	19.60	19.52	19.0±1.0
		3	2	19.77	19.70	19.55	
		3	3	19.79	19.71	19.49	
		6	0	19.67	19.61	19.34	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131987/1711.5	12322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.79	21.85	21.66	21.0±1.0
		1	7	21.66	21.75	21.54	
		1	14	21.68	21.74	21.53	
		8	0	20.96	21.03	20.81	20.5±1.0
		8	4	20.97	21.02	20.78	
		8	7	20.98	21.04	20.79	
		15	0	20.84	20.91	20.68	20.0±1.0
	16QAM	1	0	20.66	20.70	20.55	20.0±1.0
		1	7	20.51	20.59	20.42	
		1	14	20.64	20.67	20.54	
		8	0	19.73	19.78	19.73	19.0±1.0
		8	4	19.81	19.88	19.76	
		8	7	19.83	19.89	19.70	
		15	0	19.71	19.79	19.55	19.0±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	22.02	22.16	22.07	21.5±1.0
		1	13	21.89	22.06	21.95	
		1	24	21.91	22.05	21.94	
		12	0	21.19	21.34	21.22	20.5±1.0
		12	6	21.20	21.33	21.19	
		12	13	21.21	21.35	21.2	
		25	0	21.07	21.22	21.09	20.5±1.0
	16QAM	1	0	20.89	21.01	20.96	20.5±1.0
		1	13	20.74	20.90	20.83	
		1	24	20.87	20.98	20.95	
		12	0	19.96	20.09	20.14	19.5±1.0
		12	6	20.04	20.19	20.17	
		12	13	20.06	20.2	20.11	
		25	0	19.94	20.10	19.96	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.15	22.24	22.13	21.5±1.0
		1	25	22.02	22.14	22.01	
		1	49	22.04	22.13	22.00	
		25	0	21.32	21.42	21.28	20.5±1.0
		25	13	21.33	21.41	21.25	
		25	25	21.34	21.43	21.26	
		50	0	21.20	21.30	21.15	20.5±1.0
	16QAM	1	0	21.02	21.09	21.02	21.0±1.0
		1	25	20.87	20.98	20.89	
		1	49	21.62	21.06	21.01	
		25	0	20.09	20.17	20.20	19.5±1.0
		25	13	20.17	20.27	20.23	
		25	25	20.19	20.28	20.17	
		50	0	20.07	20.18	20.02	19.5±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.35	22.41	22.26	21.5±1.0
		1	38	22.22	22.31	22.14	
		1	74	22.24	22.30	22.13	
		36	0	21.52	21.59	21.41	21.0±1.0
		36	18	21.53	21.58	21.38	
		36	39	21.54	21.60	21.39	
		75	0	21.40	21.47	21.28	20.5±1.0
	16QAM	1	0	21.22	21.26	21.15	20.5±1.0
		1	38	21.07	21.15	21.02	
		1	74	21.20	21.23	21.14	
		36	0	20.29	20.34	20.33	19.5±1.0
		36	18	20.37	20.44	20.36	
		36	39	20.39	20.45	20.30	
		75	0	20.27	20.35	20.15	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.65	22.70	22.67	22.0±1.0
		1	50	22.52	22.60	22.55	
		1	99	22.54	22.59	22.54	
		50	0	21.82	21.88	21.82	21.0±1.0
		50	25	21.83	21.87	21.79	
		50	50	21.84	21.89	21.80	
		100	0	21.70	21.76	21.69	21.0±1.0
	16QAM	1	0	21.52	21.55	21.56	21.0±1.0
		1	50	21.37	21.44	21.43	
		1	99	21.50	21.52	21.55	
		50	0	20.59	20.63	20.74	20.0±1.0
		50	25	20.67	20.73	20.77	
		50	50	20.69	20.74	20.71	
		100	0	20.57	20.64	20.56	20.0±1.0

7.4 WIFI Conducted Power

WLAN 2.4GHz Band Conducted Power

Channel/Freq.(MHz)	Maximum Conducted Out Power (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
1(2412)	16.02	14.97	14.15	13.90
6(2437)	15.99	14.87	14.02	13.75
11(2462)	15.86	14.64	13.71	12.92

Note:

1. Per KDB248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion
2. 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
3. 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 $\leq 1.2\text{W/Kg}$. Thus the SAR can be excluded.

7.5 Bluetooth Output Power

Channel	Frequency (MHz)	BT3.0 Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	5.98	6.86	6.75
CH 39	2441	5.61	6.56	6.70
CH 78	2480	3.93	4.86	5.22
Channel	Frequency (MHz)	BT4.0 Output Power(dBm)		
		GFSK		
CH 0	2402	0.834		
CH 20	2442	0.551		
CH 39	2480	-0.748		

Note:

- Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where

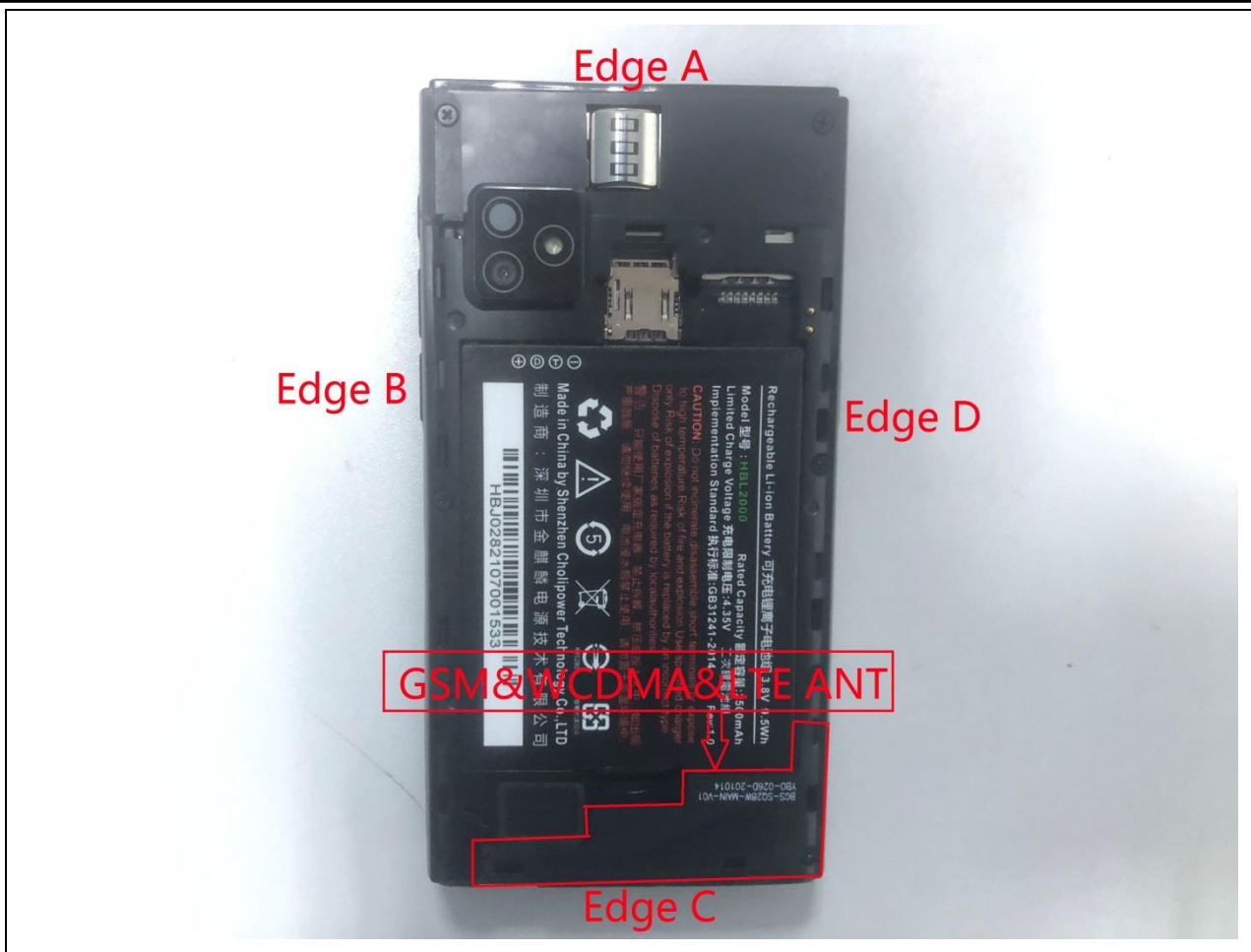
- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Max. tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 0	2.402	7	6.86	5	1.55	3.0

- The max. tune-up power was provided by manufacturer, based on the result of note 1, RF exposure evaluation is not required.
- The output power of all data rates were pre-scan, just the worst case of all modes were shown in report.
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

Antenna Location:





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

Antenna	Front	Back	Edge A	Edge B	Edge C	Edge D
GSM/WCDMA/LTE	<25	<25	105	<25	<25	<25
WIFI/BT	<25	<25	<25	44	120	<25

Note: The diagonal distance of the overall section is 14.9cm.

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

Antenna	Front	Back	Edge A	Edge B	Edge C	Edge D
GSM/WCDMA/LTE Body-worn	Yes	Yes	No	No	No	No
GSM/WCDMA/LTE hotspot	Yes	Yes	No	Yes	Yes	Yes
WIFI Antenna Body-worn	Yes	Yes	No	No	No	No
WIFI Antenna hotspot	Yes	Yes	Yes	No	No	Yes

Note: According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required.

8. Scaling Factor calculation

Operation Mode	Channel /Frequency	Output Power(dBm)	Tune up Power in tolerance (dBm)	Max. Tune up(dBm)	Scaling Factor
GSM850	128/824.2	31.26	30.5 ±1.0	31.5	1.057
	190/836.6	31.21	30.5 ±1.0	31.5	1.069
	251/848.8	31.46	30.5 ±1.0	31.5	1.009
GPRS850 (GPRS 4Tx)	128/824.2	26.48	26.0 ±1.0	27.0	1.127
	190/836.6	26.63	26.0 ±1.0	27.0	1.089
	251/848.8	26.83	26.0 ±1.0	27.0	1.040
GSM1900	512/1850.2	29.18	28.5 ±1.0	29.5	1.076
	661/1880.0	29.12	28.5 ±1.0	29.5	1.091
	810/1909.8	29.47	28.5 ±1.0	29.5	1.007
GPRS1900 (GPRS 4Tx)	512/1850.2	24.61	24.5 ±1.0	25.5	1.227
	661/1880.0	25.16	24.5 ±1.0	25.5	1.081
	810/1909.8	25.45	24.5 ±1.0	25.5	1.012
CDMA BC0	1013/824.7	23.16	22.5 ±1.0	23.5	1.081
	384/836.52	23.04	22.5 ±1.0	23.5	1.112
	777/848.31	23.10	22.5 ±1.0	23.5	1.096
WCDMA850	4132/826.4	23.36	22.5 ±1.0	23.5	1.033
	4183/836.6	23.41	22.5 ±1.0	23.5	1.021
	4233/846.6	23.40	22.5 ±1.0	23.5	1.023
WCDMA1900	9262/1852.4	23.34	22.5 ±1.0	23.5	1.038
	9400/1880.0	23.32	22.5 ±1.0	23.5	1.042
	9538/1907.6	23.33	22.5 ±1.0	23.5	1.040
WCDMA1700	1312/1712.4	23.22	22.5 ±1.0	23.5	1.067
	1413/1732.6	23.21	22.5 ±1.0	23.5	1.069
	1513/1752.6	23.41	22.5 ±1.0	23.5	1.021
LTE B2 20MHz 1RB#0	18700/1860	23.42	23.0 ±1.0	24.0	1.143
	18900/1880	23.50	23.0 ±1.0	24.0	1.122
	19100/1900	23.25	23.0 ±1.0	24.0	1.189
LTE B2 20MHz 50RB#0	18700/1860	22.73	22.0 ±1.0	23.0	1.064
	18900/1880	22.68	22.0 ±1.0	23.0	1.076
	19100/1900	22.72	22.0 ±1.0	23.0	1.067
LTE B4 20MHz 1RB#0	20050/1720	23.15	22.5 ±1.0	23.5	1.084
	20175/1732.5	23.27	22.5 ±1.0	23.5	1.054
	20300/1745	23.10	22.5 ±1.0	23.5	1.096
LTE B4 20MHz 50RB#0	20050/1720	22.21	21.5 ±1.0	22.5	1.069
	20175/1732.5	22.16	21.5 ±1.0	22.5	1.081
	20300/1745	22.26	21.5 ±1.0	22.5	1.057



LTE B5 10MHz 1RB#0	20450/829	23.65	23.0 ±1.0	24.0	1.084
	20525/836.5	23.78	23.0 ±1.0	24.0	1.052
	20600/844	23.55	23.0 ±1.0	24.0	1.109
LTE B5 10MHz 25RB#0	20450/829	22.46	22.0 ±1.0	23.0	1.132
	20525/836.5	22.53	22.0 ±1.0	23.0	1.114
	20600/844	22.55	22.0 ±1.0	23.0	1.109
LTE B7 20MHz 1RB#0	20850/2510	23.62	23.0 ±1.0	24.0	1.091
	21100/2535	23.57	23.0 ±1.0	24.0	1.104
	21350/2560	23.43	23.0 ±1.0	24.0	1.140
LTE B7 20MHz 50RB#0	20850/2510	22.65	22.0 ±1.0	23.0	1.084
	21100/2535	22.45	22.0 ±1.0	23.0	1.135
	21350/2560	22.60	22.0 ±1.0	23.0	1.096
LTE B12 10MHz 1RB#0	23060/704	23.10	22.5 ±1.0	23.5	1.096
	23095/707.5	23.15	22.5 ±1.0	23.5	1.084
	23130/711	23.05	22.5 ±1.0	23.5	1.109
LTE B12 10MHz 25RB#0	23060/704	22.20	21.5 ±1.0	22.5	1.072
	23095/707.5	22.05	21.5 ±1.0	22.5	1.109
	23130/711	22.23	21.5 ±1.0	22.5	1.064
LTE B17 10MHz 1RB#0	23780/709	23.08	22.5 ±1.0	23.5	1.102
	23790/710	23.21	22.5 ±1.0	23.5	1.069
	23800/711	23.02	22.5 ±1.0	23.5	1.117
LTE B17 10MHz 25RB#0	23780/709	22.24	21.5 ±1.0	22.5	1.062
	23790/710	22.32	21.5 ±1.0	22.5	1.042
	23800/711	22.27	21.5 ±1.0	22.5	1.054
LTE B25 20MHz 1RB#0	26140/1860	22.72	22.0 ± 1.0	23.0	1.067
	26365/1882.5	22.99	22.0 ± 1.0	23.0	1.002
	26590/1905	22.69	22.0 ± 1.0	23.0	1.074
LTE B25 20MHz 50RB#0	26140/1860	21.57	21.0 ± 1.0	22.0	1.104
	26365/1882.5	21.73	21.0 ± 1.0	22.0	1.064
	26590/1905	21.60	21.0 ± 1.0	22.0	1.096
LTE B26 15MHz 1RB#0	26765/821.5	22.42	22.0 ± 1.0	23.0	1.143
	26865/831.52	22.62	22.0 ± 1.0	23.0	1.091
	26965/841.5	22.46	22.0 ± 1.0	23.0	1.132
LTE B26 15MHz 36RB#0	26765/821.5	21.57	21.0 ± 1.0	22.0	1.104
	26865/831.52	21.79	21.0 ± 1.0	22.0	1.050
	26965/841.5	21.63	21.0 ± 1.0	22.0	1.089
LTE B41 20MHz 1RB#0	40140/2545	22.18	21.5 ± 1.0	22.5	1.076
	40640/2595	22.25	21.5 ± 1.0	22.5	1.059
	41140/2645	22.16	21.5 ± 1.0	22.5	1.081



LTE B41 20MHz 50RB#0	40140/2545	21.33	20.5 ± 1.0	21.5	1.040
	40640/2595	21.39	20.5 ± 1.0	21.5	1.026
	41140/2645	21.33	20.5 ± 1.0	21.5	1.040
LTE B66 20MHz 1RB#0	132072/1720	22.65	22.0 ± 1.0	23.0	1.084
	132322/1745	22.70	22.0 ± 1.0	23.0	1.072
	132572/1770	22.67	22.0 ± 1.0	23.0	1.079
LTE B66 20MHz 50RB#0	132072/1720	21.82	21.0 ± 1.0	22.0	1.042
	132322/1745	21.88	21.0 ± 1.0	22.0	1.028
	132572/1770	21.82	21.0 ± 1.0	22.0	1.042
WIFI 2.4G 802.11b	1/2412	16.02	15.5 ± 1.0	16.5	1.117
	6/2437	15.99	15.0 ± 1.0	16.0	1.002
	11/2462	15.86	15.0 ± 1.0	16.0	1.033
BT	0/2402	6.86	6.0 ± 1.0	7.0	1.033
	39/2441	6.56	6.0 ± 1.0	7.0	1.107
	78/2480	4.86	4.0 ± 1.0	5.0	1.033

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

9. Test Results

Results overview of GSM850

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	128/824.2	GPRS 4Tx	1.051	3.65	1.127	1.184	Yes
Back Upward	190/836.6	GPRS 4Tx	1.093	-0.58	1.089	1.190	/
Back Upward	251/848.8	GPRS 4Tx	1.032	-0.52	1.040	1.073	/
Back Upward repeat	190/836.6	GPRS 4Tx	1.084	-1.62	1.089	1.180	/
Face Upward	128/824.2	GPRS 4Tx	0.805	-0.41	1.127	0.907	/
Face Upward	190/836.6	GPRS 4Tx	0.834	-0.36	1.089	0.908	/
Face Upward	251/848.8	GPRS 4Tx	0.792	-2.55	1.040	0.824	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	128/824.2	GPRS 4Tx	1.051	3.65	1.127	1.184	/
Back Upward	190/836.6	GPRS 4Tx	1.093	-0.58	1.089	1.190	Yes
Back Upward	251/848.8	GPRS 4Tx	1.032	-0.52	1.040	1.073	/
Back Upward repeat	190/836.6	GPRS 4Tx	1.084	-1.62	1.089	1.180	/
Face Upward	128/824.2	GPRS 4Tx	0.805	-0.41	1.127	0.907	/
Face Upward	190/836.6	GPRS 4Tx	0.834	-0.36	1.089	0.908	/
Face Upward	251/848.8	GPRS 4Tx	0.792	-2.55	1.040	0.824	/
Edge B	128/824.2	GPRS 4Tx	0.894	-3.37	1.127	1.008	/
Edge B	190/836.6	GPRS 4Tx	0.913	-2.23	1.089	0.994	/
Edge B	251/848.8	GPRS 4Tx	0.870	-1.95	1.040	0.905	/
Edge C	190/836.6	GPRS 4Tx	0.211	3.41	1.089	0.230	/
Edge D	190/836.6	GPRS 4Tx	0.642	-0.34	1.089	0.699	/

Results overview of GSM1900

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	512/1850.2	GPRS 4Tx	0.796	-1.62	1.227	0.977	/
Back Upward	661/1880.0	GPRS 4Tx	0.906	-2.67	1.081	0.979	Yes
Back Upward	810/1909.8	GPRS 4Tx	0.857	-2.15	1.012	0.867	/
Back Upward repeat	661/1880.0	GPRS 4Tx	0.901	-1.27	1.081	0.974	/
Face Upward	661/1880.0	GPRS 4Tx	0.054	-3.45	1.081	0.058	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	512/1850.2	GPRS 4Tx	0.796	-1.62	1.227	0.977	/
Back Upward	661/1880.0	GPRS 4Tx	0.906	-2.67	1.081	0.979	Yes
Back Upward	810/1909.8	GPRS 4Tx	0.857	-2.15	1.012	0.867	/
Back Upward repeat	661/1880.0	GPRS 4Tx	0.901	-1.27	1.081	0.974	/
Face Upward	661/1880.0	GPRS 4Tx	0.054	-3.45	1.081	0.058	/
Edge B	661/1880.0	GPRS 4Tx	0.080	-1.69	1.081	0.086	/
Edge C	661/1880.0	GPRS 4Tx	0.167	-3.78	1.081	0.181	/
Edge D	661/1880.0	GPRS 4Tx	0.135	-1.90	1.081	0.146	/

**Results overview of CDMA BC0**

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	1013/824.7	RC3 (+F-SCH)	0.841	1.24	1.081	0.909	/
Back Upward	384/836.52	RC3 (+F-SCH)	0.878	0.74	1.112	0.976	Yes
Back Upward	777/848.31	RC3 (+F-SCH)	0.816	0.92	1.096	0.894	/
Back Upward repeat	384/836.52	RC3 (+F-SCH)	0.871	2.41	1.112	0.969	/
Face Upward	384/836.52	RC3 (+F-SCH)	0.417	-1.34	1.112	0.464	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	1013/824.7	RC3 (+F-SCH)	0.841	1.24	1.081	0.909	/
Back Upward	384/836.52	RC3 (+F-SCH)	0.878	0.74	1.112	0.976	Yes
Back Upward	777/848.31	RC3 (+F-SCH)	0.816	0.92	1.096	0.894	/
Back Upward repeat	384/836.52	RC3 (+F-SCH)	0.871	2.41	1.112	0.969	/
Face Upward	384/836.52	RC3 (+F-SCH)	0.417	-1.34	1.112	0.464	/
Edge B	384/836.52	RC3 (+F-SCH)	0.004	-0.38	1.112	0.004	/
Edge C	384/836.52	RC3 (+F-SCH)	0.002	-2.01	1.112	0.002	/
Edge D	384/836.52	RC3 (+F-SCH)	0.006	-1.86	1.112	0.007	/

**Results overview of WCDMA850**

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	4132/826.4	RMC	0.785	-0.75	1.033	0.811	/
Back Upward	4183/836.6	RMC	0.851	-0.08	1.021	0.869	Yes
Back Upward	4233/846.6	RMC	0.823	-0.13	1.023	0.842	/
Back Upward repeat	4183/836.6	RMC	0.843	1.57	1.021	0.861	/
Face Upward	4183/836.6	RMC	0.458	-3.98	1.021	0.468	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	4132/826.4	RMC	0.785	-0.75	1.033	0.811	/
Back Upward	4183/836.6	RMC	0.851	-0.08	1.021	0.869	Yes
Back Upward	4233/846.6	RMC	0.823	-0.13	1.023	0.842	/
Back Upward repeat	4183/836.6	RMC	0.843	1.57	1.021	0.861	/
Face Upward	4183/836.6	RMC	0.458	-3.98	1.021	0.468	/
Edge B	4183/836.6	RMC	0.707	-4.41	1.021	0.722	/
Edge C	4183/836.6	RMC	0.281	0.21	1.021	0.287	/
Edge D	4183/836.6	RMC	0.426	-3.44	1.021	0.435	/

Results overview of WCDMA1900

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	9400/1880.0	RMC	0.520	-3.09	1.042	0.542	Yes
Face Upward	9400/1880.0	RMC	0.060	-2.99	1.042	0.063	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	9400/1880.0	RMC	0.520	-3.09	1.042	0.542	Yes
Face Upward	9400/1880.0	RMC	0.060	-2.99	1.042	0.063	/
Edge B	9400/1880.0	RMC	0.113	-2.44	1.042	0.118	/
Edge C	9400/1880.0	RMC	0.155	-1.17	1.042	0.162	/
Edge D	9400/1880.0	RMC	0.176	0.63	1.042	0.183	/

Results overview of WCDMA1700

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	1413/1732.6	RMC	0.716	-2.60	1.069	0.765	Yes
Face Upward	1413/1732.6	RMC	0.110	0.97	1.069	0.118	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	1413/1732.6	RMC	0.716	-2.60	1.069	0.765	Yes
Face Upward	1413/1732.6	RMC	0.110	0.97	1.069	0.118	/
Edge B	1413/1732.6	RMC	0.079	-3.79	1.069	0.084	/
Edge C	1413/1732.6	RMC	0.248	-1.92	1.069	0.265	/
Edge D	1413/1732.6	RMC	0.153	-2.63	1.069	0.164	/



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

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	18900/1880	Data	0.567	0.50	1.122	0.636	Yes
Face Upward	18900/1880	Data	0.085	-3.86	1.122	0.095	/
50%RB#0							
Back Upward	18900/1880	Data	0.428	-1.31	1.076	0.461	/
Face Upward	18900/1880	Data	0.067	-2.41	1.076	0.072	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	18900/1880	Data	0.567	0.50	1.122	0.636	Yes
Face Upward	18900/1880	Data	0.085	-3.86	1.122	0.095	/
Edge B	18900/1880	Data	0.155	-4.08	1.122	0.174	/
Edge C	18900/1880	Data	0.231	-0.14	1.122	0.259	/
Edge D	18900/1880	Data	0.172	-1.60	1.122	0.193	/
50%RB#0							
Back Upward	18900/1880	Data	0.428	-1.31	1.076	0.461	/
Face Upward	18900/1880	Data	0.067	-2.41	1.076	0.072	/
Edge B	18900/1880	Data	0.137	3.86	1.076	0.147	/
Edge C	18900/1880	Data	0.219	4.34	1.076	0.236	/
Edge D	18900/1880	Data	0.155	-4.03	1.076	0.167	/

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

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	20175/1732.5	Data	0.466	-3.73	1.054	0.491	Yes
Face Upward	20175/1732.5	Data	0.080	-4.04	1.054	0.084	/
50%RB#0							
Back Upward	20175/1732.5	Data	0.425	-2.73	1.081	0.459	/
Face Upward	20175/1732.5	Data	0.072	-0.32	1.081	0.078	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Face Upward	20175/1732.5	Data	0.466	-3.73	1.054	0.491	Yes
Back Upward	20175/1732.5	Data	0.080	-4.04	1.054	0.084	/
Edge B	20175/1732.5	Data	0.058	-0.09	1.054	0.061	/
Edge C	20175/1732.5	Data	0.183	-0.66	1.054	0.193	/
Edge D	20175/1732.5	Data	0.062	-3.69	1.054	0.065	/
50%RB#0							
Back Upward	20175/1732.5	Data	0.425	-2.73	1.081	0.459	/
Face Upward	20175/1732.5	Data	0.072	-0.32	1.081	0.078	/
Edge B	20175/1732.5	Data	0.052	-3.23	1.081	0.056	/
Edge C	20175/1732.5	Data	0.147	-1.88	1.081	0.159	/
Edge D	20175/1732.5	Data	0.049	2.68	1.081	0.053	/

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

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	20525/836.5	Data	0.679	0.73	1.052	0.714	Yes
Face Upward	20525/836.5	Data	0.404	-1.22	1.052	0.425	/
50%RB#0							
Back Upward	20525/836.5	Data	0.524	-0.86	1.114	0.584	/
Face Upward	20525/836.5	Data	0.316	-0.39	1.114	0.352	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	20525/836.5	Data	0.679	0.73	1.052	0.714	Yes
Face Upward	20525/836.5	Data	0.404	-1.22	1.052	0.425	/
Edge B	20525/836.5	Data	0.502	2.02	1.052	0.528	/
Edge C	20525/836.5	Data	0.130	-1.73	1.052	0.137	/
Edge D	20525/836.5	Data	0.253	-2.84	1.052	0.266	/
50%RB#0							
Back Upward	20525/836.5	Data	0.524	-0.86	1.114	0.584	/
Face Upward	20525/836.5	Data	0.316	-0.39	1.114	0.352	/
Edge B	20525/836.5	Data	0.422	3.12	1.114	0.470	/
Edge C	20525/836.5	Data	0.104	1.33	1.114	0.116	/
Edge D	20525/836.5	Data	0.197	3.98	1.114	0.219	/

Results overview of FDD LTE Band 7, QPSK, 20MHz Bandwidth

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	21100/2535	Data	0.531	-3.01	1.104	0.586	Yes
Face Upward	21100/2535	Data	0.237	-2.89	1.104	0.262	/
50%RB#0							
Back Upward	21100/2535	Data	0.417	1.13	1.135	0.473	/
Face Upward	21100/2535	Data	0.154	2.70	1.135	0.175	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	21100/2535	Data	0.531	-3.01	1.104	0.586	Yes
Face Upward	21100/2535	Data	0.237	-2.89	1.104	0.262	/
Edge B	21100/2535	Data	0.268	3.33	1.104	0.296	/
Edge C	21100/2535	Data	0.381	3.62	1.104	0.421	/
Edge D	21100/2535	Data	0.240	-3.09	1.104	0.265	/
50%RB#0							
Back Upward	21100/2535	Data	0.417	1.13	1.135	0.473	/
Face Upward	21100/2535	Data	0.154	2.70	1.135	0.175	/
Edge B	21100/2535	Data	0.196	2.31	1.135	0.222	/
Edge C	21100/2535	Data	0.310	-2.65	1.135	0.352	/
Edge D	21100/2535	Data	0.148	1.06	1.135	0.168	/



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

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	23095/707.5	Data	0.713	-2.17	1.084	0.773	Yes
Face Upward	23095/707.5	Data	0.291	-1.24	1.084	0.315	/
50%RB#0							
Back Upward	23095/707.5	Data	0.631	2.93	1.109	0.700	/
Face Upward	23095/707.5	Data	0.242	-2.56	1.109	0.268	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	23095/707.5	Data	0.713	-2.17	1.084	0.773	Yes
Face Upward	23095/707.5	Data	0.291	-1.24	1.084	0.315	/
Edge B	23095/707.5	Data	0.279	2.04	1.084	0.302	/
Edge C	23095/707.5	Data	0.091	-1.96	1.084	0.099	/
Edge D	23095/707.5	Data	0.220	-2.70	1.084	0.238	/
50%RB#0							
Back Upward	23095/707.5	Data	0.631	2.93	1.109	0.700	/
Face Upward	23095/707.5	Data	0.242	-2.56	1.109	0.268	/
Edge B	23095/707.5	Data	0.218	-0.18	1.109	0.242	/
Edge C	23095/707.5	Data	0.068	-2.98	1.109	0.075	/
Edge D	23095/707.5	Data	0.149	-0.23	1.109	0.165	/



Results overview of FDD LTE Band 17, QPSK, 10MHz Bandwidth

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	23790/710	Data	0.589	-2.80	1.069	0.630	Yes
Face Upward	23790/710	Data	0.243	-0.79	1.069	0.260	/
50%RB#0							
Back Upward	23790/710	Data	0.516	-3.80	1.042	0.538	/
Face Upward	23790/710	Data	0.203	-1.88	1.042	0.212	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	23790/710	Data	0.589	-2.80	1.069	0.630	Yes
Face Upward	23790/710	Data	0.243	-0.79	1.069	0.260	/
Edge B	23790/710	Data	0.218	-3.14	1.069	0.233	/
Edge C	23790/710	Data	0.078	-2.22	1.069	0.083	/
Edge D	23790/710	Data	0.101	-0.33	1.069	0.108	/
50%RB#0							
Back Upward	23790/710	Data	0.516	-3.80	1.042	0.538	/
Face Upward	23790/710	Data	0.203	-1.88	1.042	0.212	/
Edge B	23790/710	Data	0.158	-0.48	1.042	0.165	/
Edge C	23790/710	Data	0.062	1.13	1.042	0.065	/
Edge D	23790/710	Data	0.084	-2.56	1.042	0.088	/



Results overview of FDD LTE Band 25, QPSK, 20MHz Bandwidth

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	26365/1882.5	Data	0.634	-0.57	1.002	0.635	Yes
Face Upward	26365/1882.5	Data	0.004	3.53	1.002	0.004	/
50%RB#0							
Back Upward	26365/1882.5	Data	0.572	1.24	1.064	0.609	/
Face Upward	26365/1882.5	Data	0.003	4.34	1.064	0.003	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	26365/1882.5	Data	0.634	-0.57	1.002	0.635	Yes
Face Upward	26365/1882.5	Data	0.004	3.53	1.002	0.004	/
Edge B	26365/1882.5	Data	0.083	-1.52	1.002	0.083	/
Edge C	26365/1882.5	Data	0.003	-0.92	1.002	0.003	/
Edge D	26365/1882.5	Data	0.160	-1.12	1.002	0.160	/
50%RB#0							
Back Upward	26365/1882.5	Data	0.572	1.24	1.064	0.609	/
Face Upward	26365/1882.5	Data	0.003	4.34	1.064	0.003	/
Edge B	26365/1882.5	Data	0.068	-4.43	1.064	0.072	/
Edge C	26365/1882.5	Data	0.003	1.57	1.064	0.003	/
Edge D	26365/1882.5	Data	0.134	-3.53	1.064	0.143	/



Results overview of FDD LTE Band 26, QPSK, 15MHz Bandwidth

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	26865/831.52	Data	0.727	-1.17	1.091	0.793	Yes
Face Upward	26865/831.52	Data	0.549	-2.69	1.091	0.599	/
50%RB#0							
Back Upward	26865/831.52	Data	0.692	2.01	1.050	0.727	/
Face Upward	26865/831.52	Data	0.513	-3.89	1.050	0.539	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	26865/831.52	Data	0.727	-1.17	1.091	0.793	Yes
Face Upward	26865/831.52	Data	0.549	-2.69	1.091	0.599	/
Edge B	26865/831.52	Data	0.408	-0.99	1.091	0.445	/
Edge C	26865/831.52	Data	0.137	-0.29	1.091	0.149	/
Edge D	26865/831.52	Data	0.287	-4.32	1.091	0.313	/
50%RB#0							
Back Upward	26865/831.52	Data	0.692	2.01	1.050	0.727	/
Face Upward	26865/831.52	Data	0.513	-3.89	1.050	0.539	/
Edge B	26865/831.52	Data	0.374	-1.56	1.050	0.393	/
Edge C	26865/831.52	Data	0.131	-1.05	1.050	0.138	/
Edge D	26865/831.52	Data	0.265	-2.24	1.050	0.278	/



Results overview of TDD LTE Band 41, QPSK, 20MHz Bandwidth

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	40640/2595	Data	0.341	-3.60	1.059	0.361	Yes
Face Upward	40640/2595	Data	0.140	-3.49	1.059	0.148	/
50%RB#0							
Back Upward	40640/2595	Data	0.307	-1.75	1.026	0.315	/
Face Upward	40640/2595	Data	0.116	-1.07	1.026	0.119	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	40640/2595	Data	0.341	-3.60	1.059	0.361	Yes
Face Upward	40640/2595	Data	0.140	-3.49	1.059	0.148	/
Edge B	40640/2595	Data	0.133	1.46	1.059	0.141	/
Edge C	40640/2595	Data	0.269	-2.48	1.059	0.285	/
Edge D	40640/2595	Data	0.335	-1.22	1.059	0.355	/
50%RB#0							
Back Upward	40640/2595	Data	0.307	-1.75	1.026	0.315	/
Face Upward	40640/2595	Data	0.116	-1.07	1.026	0.119	/
Edge B	40640/2595	Data	0.102	4.16	1.026	0.105	/
Edge C	40640/2595	Data	0.232	-2.93	1.026	0.238	/
Edge D	40640/2595	Data	0.308	-3.23	1.026	0.316	/



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

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	132322/1745	Data	0.615	0.06	1.072	0.659	Yes
Face Upward	132322/1745	Data	0.079	-1.05	1.072	0.085	/
50%RB#0							
Back Upward	132322/1745	Data	0.597	-0.28	1.028	0.614	/
Face Upward	132322/1745	Data	0.068	-3.75	1.028	0.070	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
1RB#0							
Back Upward	132322/1745	Data	0.615	0.06	1.072	0.659	Yes
Face Upward	132322/1745	Data	0.079	-1.05	1.072	0.085	/
Edge B	132322/1745	Data	0.058	-1.94	1.072	0.062	/
Edge C	132322/1745	Data	0.180	-0.99	1.072	0.193	/
Edge D	132322/1745	Data	0.108	-0.56	1.072	0.116	/
50%RB#0							
Back Upward	132322/1745	Data	0.597	-0.28	1.028	0.614	/
Face Upward	132322/1745	Data	0.068	-3.75	1.028	0.070	/
Edge B	132322/1745	Data	0.051	-3.20	1.028	0.052	/
Edge C	132322/1745	Data	0.152	-1.98	1.028	0.156	/
Edge D	132322/1745	Data	0.084	0.64	1.028	0.086	/

Results overview of WIFI2.4G 802.11b

Test Position of Body-worn(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	6/2437	DSSS	0.147	-4.68	1.002	0.147	Yes
Face Upward	6/2437	DSSS	0.143	-0.12	1.002	0.143	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	SAR Plot.
Back Upward	6/2437	DSSS	0.147	-4.68	1.002	0.147	/
Face Upward	6/2437	DSSS	0.143	-0.12	1.002	0.143	/
Edge A	6/2437	DSSS	0.159	-4.53	1.002	0.159	Yes
Edge B	6/2437	DSSS	0.012	-3.52	1.002	0.012	/
Edge D	6/2437	DSSS	0.153	-2.70	1.002	0.153	/

Note:

Per KDB941225 D06 v02r01, When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

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

10. 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.

1. Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. tune-up Power (dBm)	Exposure Position	Body	Hotspot
		Test Distance (mm)	10	10
Bluetooth	7.0	Estimated SAR (W/kg)	0.104	0.104

Note:

When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.



2. Simultaneous SAR

No.	Transmitter Combinations	Scenario Supported or not	Supported for Mobile Hotspot or not
1	GSM + BT	Yes	No
2	GSM + WIFI 2.4G	Yes	Yes
3	WCDMA +BT	Yes	No
4	WCDMA +WIFI 2.4G	Yes	Yes
5	LTE+BT	Yes	No
6	LTE+WIFI 2.4G	Yes	Yes
7	WIFI+BT	No	No

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

Test Position/Freq.	BACK	FACE	Edge A	Edge B	Edge C	Edge D
Body MAX 1-g SAR(W/Kg) 10mm distance	GSM850	1.190	0.908	/	/	/
	GSM1900	0.979	0.058	/	/	/
	CDMA BC0	0.976	0.464	/	/	/
	WCDMA 850	0.869	0.468	/	/	/
	WCDMA 1900	0.542	0.063	/	/	/
	WCDMA 1700	0.765	0.118	/	/	/
	LTE Band2	0.636	0.095	/	/	/
	LTE Band4	0.491	0.084	/	/	/
	LTE Band5	0.714	0.425	/	/	/
	LTE Band7	0.586	0.262	/	/	/
	LTE Band12	0.773	0.315	/	/	/
	LTE Band17	0.630	0.260	/	/	/
	LTE Band25	0.635	0.004	/	/	/
	LTE Band26	0.793	0.599	/	/	/
	LTE Band41	0.361	0.148	/	/	/
	LTE Band66	0.659	0.085	/	/	/
	WIFI 2.4G	0.147	0.143	/	/	/
	BT	0.104	0.104	/	/	/
WIFI Simultaneous \sum 1-g SAR(W/Kg)	1.337	1.051	/	/	/	
BT Simultaneous \sum 1-g SAR(W/Kg)	1.294	1.012	/	/	/	



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

Test Position/Freq.	BACK	FACE	Edge A	Edge B	Edge C	Edge D	
Hotspot MAX 1-g SAR(W/Kg) 10mm distance	GSM850	1.190	0.908	/	1.008	0.230	0.699
	GSM1900	0.979	0.058	/	0.086	0.181	0.146
	CDMA BC0	0.976	0.464	/	0.004	0.002	0.007
	WCDMA 850	0.869	0.468	/	0.722	0.287	0.435
	WCDMA 1900	0.542	0.063	/	0.118	0.162	0.183
	WCDMA 1700	0.765	0.118	/	0.084	0.265	0.164
	LTE Band2	0.636	0.095	/	0.174	0.259	0.193
	LTE Band4	0.491	0.084	/	0.061	0.193	0.065
	LTE Band5	0.714	0.425	/	0.528	0.137	0.266
	LTE Band7	0.586	0.262	/	0.296	0.421	0.265
	LTE Band12	0.773	0.315	/	0.302	0.099	0.238
	LTE Band17	0.630	0.260	/	0.233	0.083	0.108
	LTE Band25	0.635	0.004	/	0.083	0.003	0.160
	LTE Band26	0.793	0.599	/	0.445	0.149	0.313
	LTE Band41	0.361	0.148	/	0.141	0.285	0.355
	LTE Band66	0.659	0.085	/	0.062	0.193	0.116
WIFI 2.4G	0.147	0.143	0.159	0.012	/	0.153	
WIFI2.4G Simultaneous \sum 1-g SAR(W/Kg)	1.337	1.051	/	1.020	/	0.852	

The estimated SAR value with * Signal

SAR to PeakLocation SeparationRatio (SPLSR)

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

11. 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 (%) ui(%)	Degree of freedom Veff or vi
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	



12. 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	SN27/15 EPGO348	2020/12/14	2021/12/14
<input checked="" type="checkbox"/>	Dipole	SID750	SN23/15 DIP0G750-378	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID835	SN09/13DIP0G835-217	2020/06/25	2023/06/24
<input type="checkbox"/>	Dipole	SID900	SN09/13DIP0G900-215	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID1800	SN09/13DIP1G800-216	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Dipole	SID1900	SN09/13DIP1G900-218	2020/06/25	2023/06/24
<input type="checkbox"/>	Dipole	SID2000	SN09/13DIP2G000-219	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	SID2600	SN 32/14_DIP2G600-338	2020/06/25	2023/06/24
<input type="checkbox"/>	Dipole	SWG5500	SN15/15 WGA39	2020/06/25	2023/06/24
<input checked="" type="checkbox"/>	Multimeter	Keithley-2000	4014020	2021/04/02	2022/04/01
<input checked="" type="checkbox"/>	System Simulator(R&S)	CMW500	130805	2021/03/19	2022/03/18
<input checked="" type="checkbox"/>	KEYSIGHT	E7515A	MY56040357	2021/04/02	2022/04/01
<input checked="" type="checkbox"/>	Vector Network Analyzer(R&S)	ZVB8	A0802530	2021/04/02	2022/04/01
<input checked="" type="checkbox"/>	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2020/11/26	2021/11/25
<input checked="" type="checkbox"/>	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2020/11/26	2021/11/25
<input checked="" type="checkbox"/>	Signal Generator	SMU200A	A140801888	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Amplifier	Nucletudes	143060	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Directional Coupler	DC6180A	305827	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Power Meter	NRP2	A140401673	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Power Sensor	NPR-Z11	1138.3004.02-114072-nq	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Power Meter	NRVS	A0802531	2021/03/12	2022/03/11
<input checked="" type="checkbox"/>	Power Sensor	NRV-Z4	100069	2021/03/12	2022/03/11



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—