

SAR TEST REPORT

No. I20Z62183-SEM01

For

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model name: CPH2195, CPH2197

With

Hardware Version: 11

Software Version: ColorOS V11.1

FCC ID: R9C-CPH2195

Issued Date: 2021-2-9

Note:

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

No. 51, Xueyuan Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn



No.I20Z62183-SEM01

REPORT HISTORY

Report Number	Revision	Issue Date	Description
I20Z62183-SEM01	Rev.0	2021-2-9	Initial creation of test report

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1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL(Shouxiang)
Address:	No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District, Beijing, P. R. China100191

1.2 Testing Environment

Temperature:	18°C~25°C,
Relative humidity:	30%~ 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

1.3 Project Data

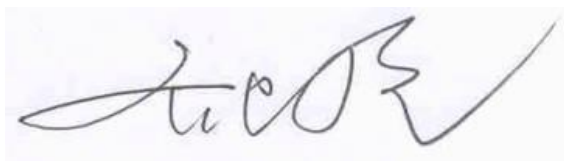
Project Leader:	Qi Dianyuan
Test Engineer:	Lin Xiaojun
Testing Start Date:	January 4, 2021
Testing End Date:	January 26, 2021

1.4 Signature



Lin Xiaojun

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Guangdong OPPO Mobile Telecommunications Corp., Ltd. Mobile Phone CPH2195, CPH2197 are as follows:

Table 2.1: Highest Reported SAR (1g)

Mode		Antenna	Highest Reported SAR (1g)			
			1g SAR Head	1g SAR Body-worn	1g SAR Hotspot	Product Specific 10-g SAR
GSM	GSM 850	ANT0	0.13	0.16	0.19	/
	PCS 1900		0.07	0.37	0.81	/
WCDMA	UMTS FDD 2		0.10	0.32	0.38	/
	UMTS FDD 4		0.11	0.25	0.78	/
	UMTS FDD 5		0.12	0.13	0.15	/
LTE	LTE Band 2		0.18	0.43	0.69	/
	LTE Band 4		/	/	/	/
	LTE Band 5		0.11	0.13	0.14	/
	LTE Band 7		0.40	0.27	0.28	/
	LTE Band 12		0.04	0.04	0.08	/
	LTE Band 17		/	/	/	/
	LTE Band 26		0.09	0.11	0.13	/
	LTE Band 38		/	/	/	/
	LTE Band 41		0.24	0.17	0.30	/
	LTE Band 66		0.16	0.67	0.98	1.90
GSM	GSM 850	ANT1	0.95	0.16	0.17	/
	PCS 1900		0.73	0.50	0.52	/
WCDMA	UMTS FDD 2		1.19	0.27	0.56	/
	UMTS FDD 4		1.17	0.23	0.66	/
	UMTS FDD 5		0.92	0.22	0.33	/
LTE	LTE Band 2		0.76	0.30	0.81	/
	LTE Band 4		/	/	/	/
	LTE Band 5		0.77	0.17	0.25	/
	LTE Band 7		0.87	0.20	0.62	/
	LTE Band 12		0.79	0.11	0.16	/
	LTE Band 17		/	/	/	/
	LTE Band 26		0.97	0.15	0.30	/
	LTE Band 38		/	/	/	/
	LTE Band 41		0.45	0.23	0.46	/
	LTE Band 66		0.44	0.30	0.41	/
LTE	LTE Band 7	ANT4	0.67	0.47	0.78	/
NR	n5(EN-DC)	ANT0	0.13	0.07	0.13	/
	n5(EN-DC)	ANT1	0.35	0.21	0.27	/
	n7(SA&EN-DC)	ANT0	0.36	0.38	0.52	/
	n7(SA)	ANT1	0.60	0.27	0.65	/
	n7(EN-DC)	ANT4	0.46	0.10	0.25	/
	n41(SA&EN-DC)	ANT0	0.40	0.51	0.77	/
	n41(SA)	ANT1	0.77	0.25	0.70	/
	n41(EN-DC)	ANT4	0.60	0.63	0.70	/
WLAN 2.4 GHz		ANT7	0.81	0.17	0.26	/

WLAN 5 GHz		1.13	0.35	0.39	/
BT		<0.01	<0.01	<0.01	/

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

- a) Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range: 699-716 MHz); LTE Band 4 (Frequency range: 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz); LTE Band 38 (Frequency range: 2570-2620 MHz) is covered by LTE Band 41 (Frequency range: 2498.5-2687.5 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 10 mm for hotspot and 15mm for body worn between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1)**, and the values are: **1.19 W/kg(1g)**.

Table 2.2: The sum of reported SAR values for Main antenna and WiFi-5G+BT

	Band	Cellular antenna	WiFi	BT	Sum
Highest reported SAR value for Head	(ENDC N7+LTE Band5)	1.23	0.09	<0.01	1.32

Note1: we have evaluated and chose the highest value of WiFi 2.4G and 5G in the above table.

Table 2.3: The sum of reported SAR values for Main antenna and WiFi-2.4G

	Band	Cellular antenna	WiFi	Sum
Maximum reported SAR value for Body	(ENDC N41+LTE Band26)	1.07	0.24	1.31

Note1: we have evaluated and chose the highest value of WiFi 2.4G and 5G in the above table.

Note2: we have evaluated and chose the highest value of body 10mm and 15mm in the above table.

According to the above tables, the highest sum of reported SAR values is **1.32 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

According to the KDB648474 D04, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg

Table 2.4: 0mm Reported SAR for phablet (10g)

Exposure Configuration	Technology Band	Highest Reported SAR 10g(W/kg)	Limit 10g (W/kg)
10g extremity SAR (Separation Distance 0mm)	LTE Band 66	1.90	4.0

3 Client Information

3.1 Applicant Information

Company Name:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address/Post:	NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City, Guangdong, China
Contact Person:	Mei XiLi
E-mail:	meixili@oppo.com
Telephone:	(86)76986076999
Fax:	/

3.2 Manufacturer Information

Company Name:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address/Post:	NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City, Guangdong, China
Contact Person:	Mei XiLi
E-mail:	meixili@oppo.com
Telephone:	(86)76986076999
Fax:	/

4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1 About EUT

Description:	Mobile Phone
Model name:	CPH2195, CPH2197
Operating mode(s):	GSM850/1900, WCDMA850/1700/1900, BT, Wi-Fi (2.4G/5G), n5/n7/n41,LTE Band 2/4/5/7/8/12/17/26/38/41/66
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824–849 MHz (WCDMA 850 Band V)
	1710 – 1755 MHz (WCDMA 1700 Band IV)
	1850–1910 MHz (WCDMA1900 Band II)
	1850 – 1910 MHz(LTE Band 2)
	824 – 849 MHz (LTE Band 5)
	2500 – 2570 MHz(LTE Band 7)
	699 – 716 MHz (LTE Band 12)
	814 – 849 MHz (LTE Band 26)
	2496 – 2690 MHz (LTE Band 41)
	1710 – 1780 MHz (LTE Band 66)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5150-5825 MHz (Wi-Fi 5G)
	824 – 849 MHz(n5)
	2500 – 2570MHz (n7)
	2496 – 2690 MHz (n41)
GPRS/EGPRS Multislot Class:	12
GPRS capability Class:	B
Test device Production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Accessories/Body-worn configurations:	Headset
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW	SW Version
EUT1	866968050019414/866968050019406	11	ColorOS V11.1
EUT2	866968050019471/866968050019463	11	ColorOS V11.1
EUT3	866968050018895/866968050018887	11	ColorOS V11.1
EUT4	866968050019513/866968050019505	11	ColorOS V11.1
EUT5	866968050019554/866968050019547	11	ColorOS V11.1
EUT6	866968050019679/866968050019661	11	ColorOS V11.1

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the EUT1-3 and conducted power with the EUT4-6.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	BLP805	/	Huizhou Desay Battery Co.,Ltd
AE2	Battery	BLP805	/	SUNWODA Electronic Co.,Ltd.,Branch 3
AE3	Headset	MH156	/	Guangdong OPPO Mobile Telecommunications Corp., Ltd.

*AE ID: is used to identify the test sample in the lab internally.

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

ANSI C95.1–1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

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

KDB447498 D01: General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB648474 D04 Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets.

KDB941225 D01 SAR test for 3G devices v03r01: SAR Measurement Procedures for 3G Devices

KDB941225 D05 SAR for LTE Devices v02r05: SAR Evaluation Considerations for LTE Devices

KDB941225 D06 Hotspot Mode SAR v02r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

6 Specific Absorption Rate (SAR)

6.1 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.

6.2 SAR Definition

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:

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

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

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

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

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

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

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

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

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

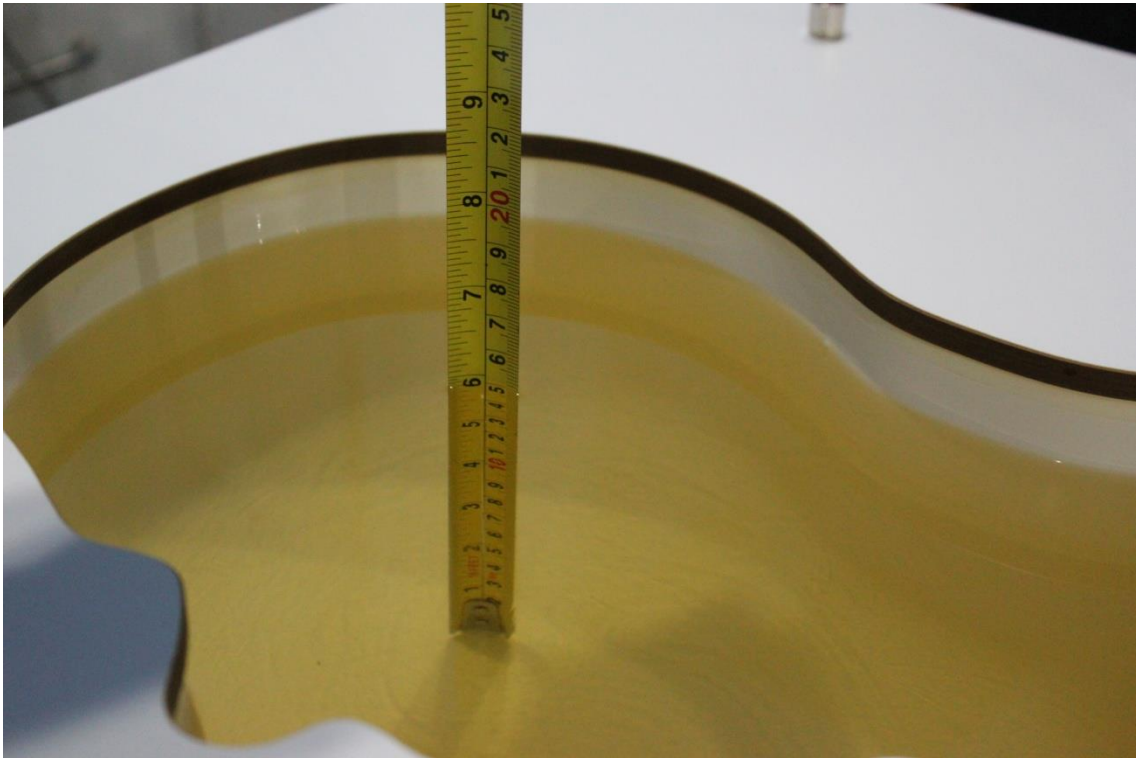
Frequency(MHz)	Liquid Type	Conductivity(σ)	$\pm 5\%$ Range	Permittivity(ϵ)	$\pm 5\%$ Range
750	Head	0.89	0.85~0.93	41.94	39.8~44.0
835	Head	0.90	0.86~0.95	41.5	39.4~43.6
1750	Head	1.37	1.30~1.44	40.08	38.1~42.1
1900	Head	1.40	1.33~1.47	40.0	38.0~42.0
2450	Head	1.80	1.71~1.89	39.2	37.2~41.2
2600	Head	1.96	1.86~2.06	39.01	37.1~41.0
5250	Head	4.71	4.47~4.95	35.93	34.13~37.73
5600	Head	5.07	4.82~5.32	35.53	33.8~37.3
5750	Head	5.22	4.96~5.48	35.36	33.59~37.13

7.2 Dielectric Performance

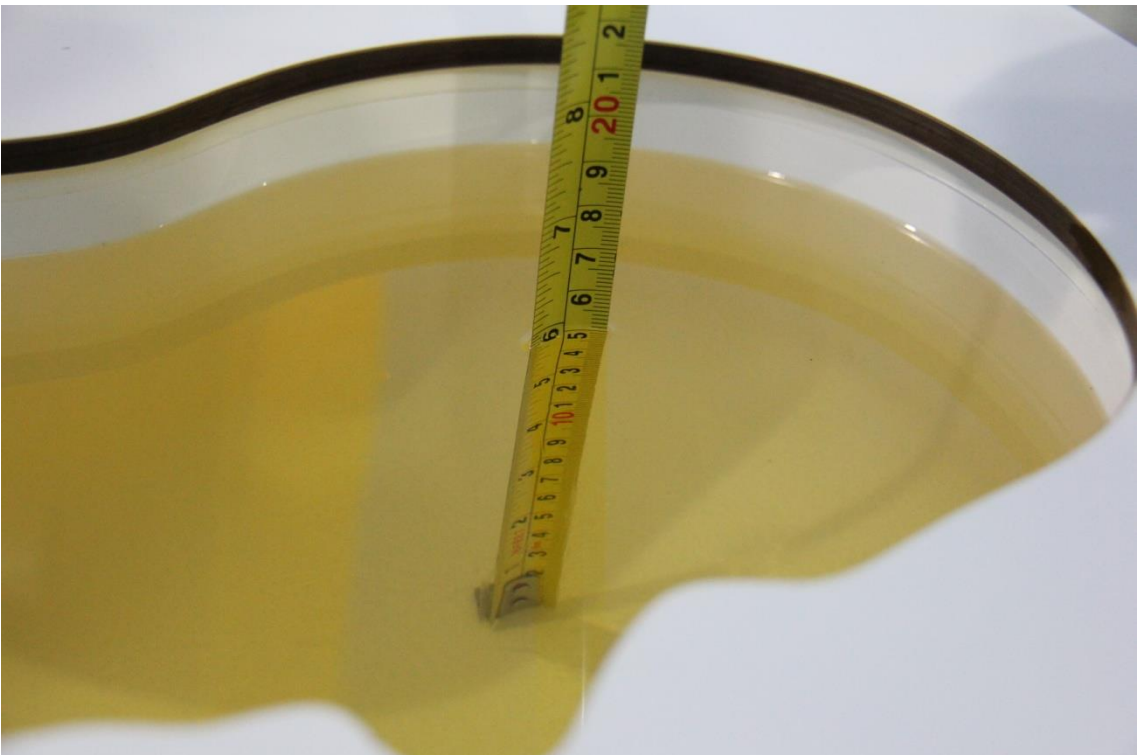
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ϵ	Drift (%)	Conductivity σ (S/m)	Drift (%)
2021-1-4	Head	750 MHz	41.28	-1.57	0.89	0.00
2021-1-13	Head	750 MHz	41.71	-0.55	0.88	-1.12
2021-1-5	Head	835 MHz	40.92	-1.40	0.898	-0.22
2021-1-6	Head	835 MHz	42.26	1.83	0.905	0.56
2021-1-14	Head	835 MHz	41.55	0.12	0.884	-1.78
2021-1-15	Head	835 MHz	41.49	-0.02	0.918	2.00
2021-1-24	Head	835 MHz	42.26	1.83	0.905	0.56
2021-1-7	Head	1750 MHz	39.69	-0.97	1.358	-0.88
2021-1-16	Head	1750 MHz	39.85	-0.57	1.383	0.95
2021-1-8	Head	1900 MHz	40.74	1.85	1.408	0.57
2021-1-9	Head	1900 MHz	39.99	-0.02	1.428	2.00
2021-1-17	Head	1900 MHz	40.09	0.23	1.401	0.07
2021-1-18	Head	1900 MHz	39.78	-0.55	1.385	-1.07
2021-1-10	Head	2450 MHz	38.99	-0.54	1.78	-1.11
2021-1-11	Head	2600 MHz	39	-0.03	1.999	1.99
2021-1-12	Head	2600 MHz	39.06	0.13	1.925	-1.79
2021-1-19	Head	2600 MHz	39.6	1.51	1.974	0.71
2021-1-20	Head	2600 MHz	39.06	0.13	1.925	-1.79
2021-1-25	Head	2600 MHz	39	-0.03	1.999	1.99
2021-1-26	Head	2600 MHz	38.86	-0.38	1.943	-0.87
2021-1-21	Head	5250 MHz	36.45	1.45	4.724	0.30
2021-1-22	Head	5600 MHz	36.01	1.35	5.068	-0.04
2021-1-23	Head	5750 MHz	34.67	-1.95	5.153	-1.28

Note: The liquid temperature is 22.0°C



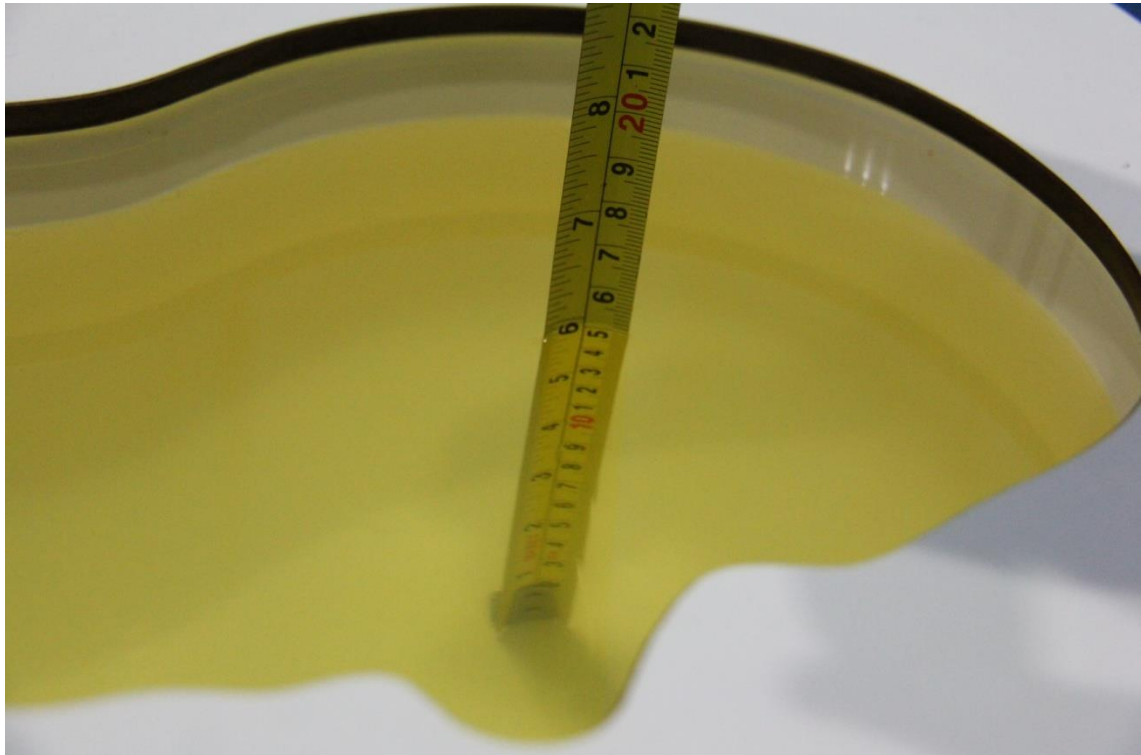
Picture 7-1 Liquid depth in the Head Phantom (750MHz)



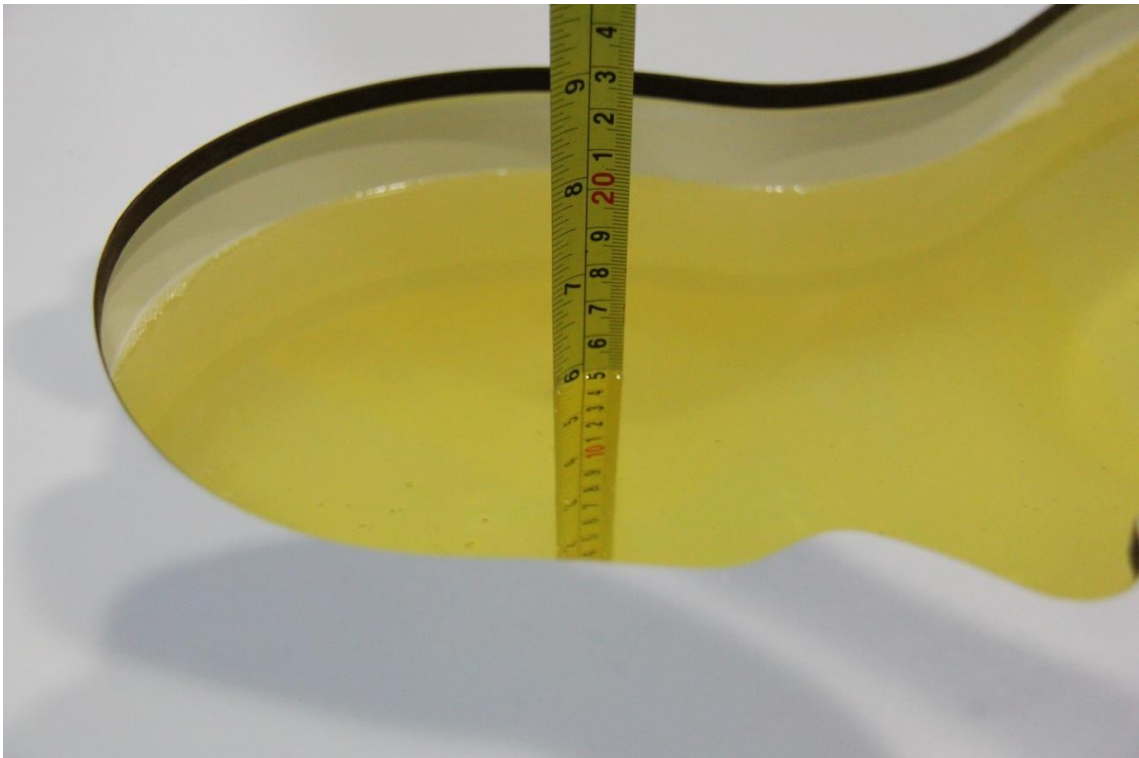
Picture 7-2 Liquid depth in the Head Phantom (835 MHz)



Picture 7-3 Liquid depth in the Head Phantom (1750 MHz)



Picture 7-4 Liquid depth in the Head Phantom (1900 MHz)



Picture 7-5 Liquid depth in the Head Phantom (2450MHz)



Picture 7-6 Liquid depth in the Head Phantom (2600 MHz)

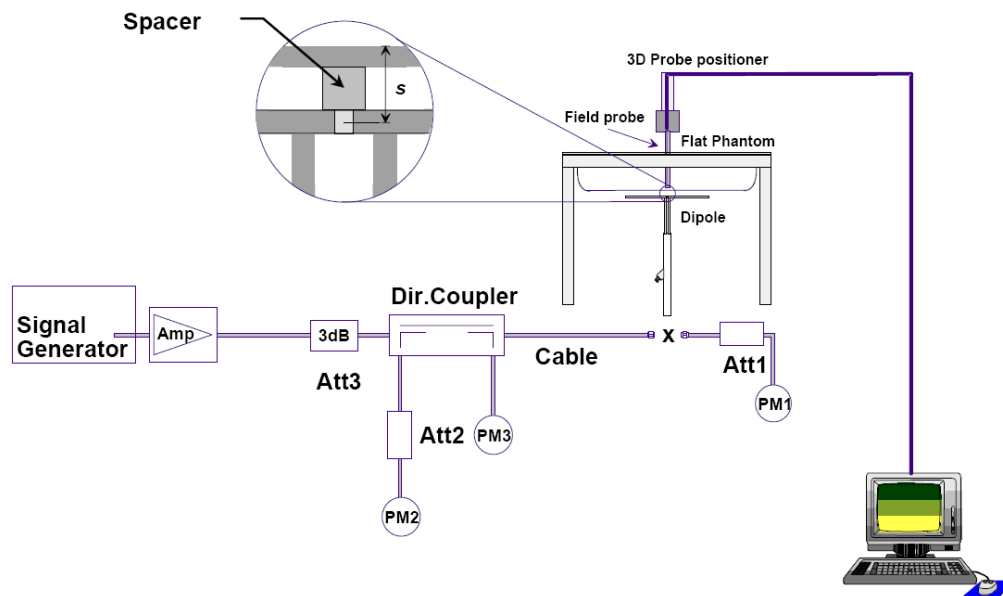


Picture 7-7 Liquid depth in the Head Phantom (5GHz)

8 System verification

8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 8.1 System Setup for System Evaluation



Picture 8.2 Photo of Dipole Setup

8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2021-1-4	750 MHz	5.53	8.47	5.56	8.32	0.54%	-1.77%
2021-1-13	750 MHz	5.53	8.47	5.6	8.32	1.27%	-1.77%
2021-1-5	835 MHz	6.25	9.60	6.36	9.64	1.76%	0.42%
2021-1-6	835 MHz	6.25	9.60	6.24	9.6	-0.16%	0.00%
2021-1-14	835 MHz	6.25	9.60	6.24	9.4	-0.16%	-2.08%
2021-1-15	835 MHz	6.25	9.60	6.36	9.6	1.76%	0.00%
2021-1-24	835 MHz	6.25	9.60	6.24	9.6	-0.16%	0.00%
2021-1-7	1750 MHz	19.1	36.5	19.16	36.08	0.31%	-1.15%
2021-1-16	1750 MHz	19.1	36.5	18.88	36.48	-1.15%	-0.05%
2021-1-8	1900 MHz	20.6	39.6	20.64	39.68	0.19%	0.20%
2021-1-9	1900 MHz	20.6	39.6	20.92	39.6	1.55%	0.00%
2021-1-17	1900 MHz	20.6	39.6	20.6	40.04	0.00%	1.11%
2021-1-18	1900 MHz	20.6	39.6	20.84	38.92	1.17%	-1.72%
2021-1-10	2450 MHz	24.5	52.5	24.8	51.6	1.22%	-1.71%
2021-1-11	2600 MHz	25.3	57.0	25.68	56.96	1.50%	-0.07%
2021-1-12	2600 MHz	25.3	57.0	25.2	55.88	-0.40%	-1.96%
2021-1-19	2600 MHz	25.3	57.0	25.44	56.12	0.55%	-1.54%
2021-1-20	2600 MHz	25.3	57.0	25.2	55.88	-0.40%	-1.96%
2021-1-25	2600 MHz	25.3	57.0	25.68	56.96	1.50%	-0.07%
2021-1-26	2600 MHz	25.3	57.0	25.76	58.04	1.82%	1.82%
2021-1-21	5250 MHz	22.9	80.5	23.0	81.8	0.61%	1.57%
2021-1-22	5600 MHz	23.6	83.3	23.1	84.9	-2.03%	1.94%
2021-1-23	5750 MHz	22.7	80.4	22.6	81.3	-0.62%	1.14%

9 Measurement Procedures

9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

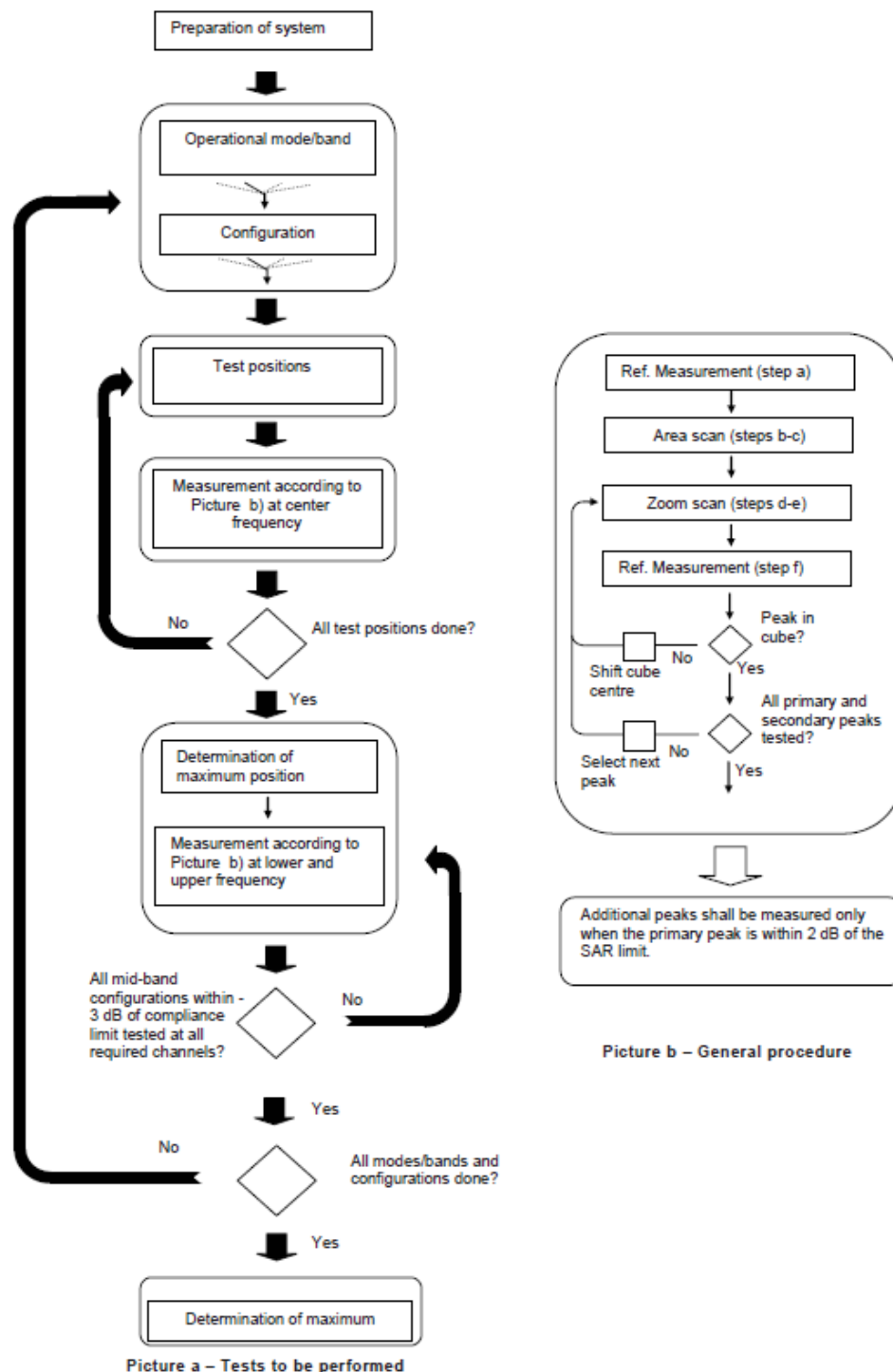
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 9.1Block diagram of the tests to be performed

9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the

higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH_n), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Schwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.

It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 v02r05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05 v02r05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

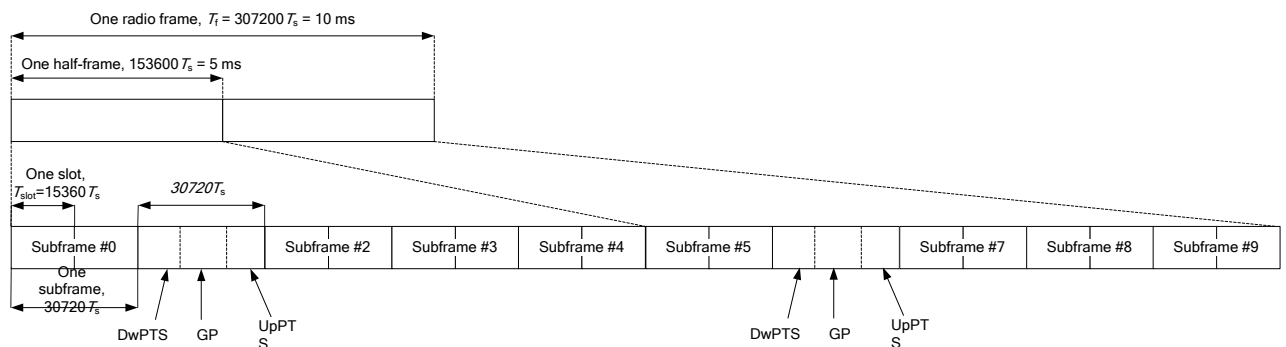


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 9.1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 9.2: Uplink-downlink configurations

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

Duty factor is calculated by:

$$\begin{aligned}
 \text{Duty factor} &= \text{uplink frame} \cdot 6 + \text{UpPTS} \cdot 2 / \text{one frame length} \\
 &= (30720 \cdot T_s \cdot 6 + 5120 \cdot T_s \cdot 2) / 307200 \cdot T_s \\
 &= 0.633
 \end{aligned}$$

According to the KDB 447498 D01, SAR should be evaluated at more than 3 frequencies for devices supporting transmit bands wider than 100MHz. Oct.2014 FCC-TCB conference notes (Dec. 2014 rev.) specifies the 5 test channels to use for 3GPP band 41 SAR evaluation.

9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.6 Power Drift

To control the output power stability during the SAR test, DASY4 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

According to the KDB447498 D01 v06, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz) and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55 wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm are 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

11 Conducted Output Power

Table1: WWAN Reduced power level table

Receiver state	Transmitting	Power level	Antenna
	Conditions		
On (Head scenario)	Standalone	Power level A1	ANT0
		Power level A2	ANT1
		Power level A3	ANT4
		Power level A4	ANT7
On (Head scenario)	Simultaneous transmission	Power level D1	ANT0
		Power level D2	ANT1
		Power level D3	ANT4
		Power level D4	ANT7
Off (Body-worn &Specific scenario)	Standalone /Simultaneous transmission	Power level B1	ANT0
		Power level B2	ANT1
		Power level B3	ANT4
		Power level B4	ANT7
Off (Hotspot &Specific scenario)	Simultaneous transmission	Power level C1	ANT0
		Power level C2	ANT1
		Power level C3	ANT4
		Power level C4	ANT7

11.1 GSM Measurement result

During the process of testing, the EUT was controlled via Agilent Digital Radio Communication tester (E5515C) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

Table 11.1-1: The conducted power measurement results for GSM, GPRS and EGPRS- Level A1/B1/C1/D1

GSM 850 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.84	32.97	33.04	33.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.86	32.97	33.03	33.50	-9.03	23.83	23.94	24.00
2 Txslots	30.32	30.39	30.48	31.00	-6.02	24.30	24.37	24.46
3Txslots	28.76	28.88	28.99	29.50	-4.26	24.50	24.62	24.73
4 Txslots	27.37	27.50	27.60	28.50	-3.01	24.36	24.49	24.59
GSM 850 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.76	32.91	32.98	33.50	-9.03	23.73	23.88	23.95
2 Txslots	30.21	30.32	30.42	31.00	-6.02	24.19	24.30	24.40
3Txslots	28.66	28.81	28.93	29.50	-4.26	24.40	24.55	24.67
4 Txslots	27.29	27.45	27.55	28.50	-3.01	24.28	24.44	24.54
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	25.58	25.93	25.81	27.50	-9.03	16.55	16.90	16.78
2 Txslots	24.59	24.21	24.32	25.50	-6.02	18.57	18.19	18.30
3Txslots	21.89	21.94	21.95	23.50	-4.26	17.63	17.68	17.69
4 Txslots	20.95	20.83	20.91	22.50	-3.01	17.94	17.82	17.90

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM850

Table 11.1-2: The conducted power measurement results for GSM, GPRS and EGPRS Level A1/B1/D1

PCS1900 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.14	29.83	29.66	30.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.19	29.83	29.65	30.50	-9.03	21.16	20.80	20.62
2 Txslots	26.86	26.73	26.68	27.50	-6.02	20.84	20.71	20.66
3Txslots	26.06	25.91	25.91	26.50	-4.26	21.80	21.65	21.65
4 Txslots	24.24	24.10	24.19	25.00	-3.01	21.23	21.09	21.18
PCS1900 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.11	29.87	29.66	30.50	-9.03	21.08	20.84	20.63
2 Txslots	26.92	26.78	26.68	27.50	-6.02	20.90	20.76	20.66
3Txslots	26.09	25.96	25.96	26.50	-4.26	21.83	21.70	21.70
4 Txslots	24.29	24.15	24.21	25.00	-3.01	21.28	21.14	21.20
PCS1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	25.63	25.63	25.73	26.50	-9.03	16.60	16.60	16.70
2 Txslots	23.23	23.24	23.21	24.00	-6.02	17.21	17.22	17.19
3Txslots	21.72	21.63	21.68	22.00	-4.26	17.46	17.37	17.42
4 Txslots	20.81	20.79	20.97	21.50	-3.01	17.80	17.78	17.96

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-3: The conducted power measurement results for GSM, GPRS and EGPRS Level C1

PCS1900 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.14	29.83	29.66	30.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.41	29.42	29.30	30.00	-9.03	20.38	20.39	20.27
2 Txslots	26.20	26.20	26.08	26.50	-6.02	20.18	20.18	20.06
3Txslots	25.43	25.37	25.36	25.50	-4.26	21.17	21.11	21.10
4 Txslots	23.66	23.61	23.66	24.00	-3.01	20.65	20.60	20.65
PCS1900 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.41	29.42	29.30	30.00	-9.03	20.38	20.39	20.27
2 Txslots	26.19	26.20	26.08	26.50	-6.02	20.17	20.18	20.06
3Txslots	25.44	25.36	25.36	25.50	-4.26	21.18	21.10	21.10
4 Txslots	23.65	23.61	23.64	24.00	-3.01	20.64	20.60	20.63
PCS1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	24.74	25.13	24.79	25.50	-9.03	15.71	16.10	15.76
2 Txslots	22.73	22.52	22.37	23.00	-6.02	16.71	16.50	16.35
3Txslots	21.04	21.02	21.47	22.00	-4.26	16.78	16.76	17.21
4 Txslots	19.96	20.04	20.00	20.50	-3.01	16.95	17.03	16.99

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-4: The conducted power measurement results for GSM, GPRS and EGPRS- Level
A2

GSM 850 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.62	31.71	31.76	32.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.66	31.72	31.79	32.50	-9.03	22.63	22.69	22.76
2 Txslots	29.42	29.59	29.72	30.50	-6.02	23.40	23.57	23.70
3Txslots	27.83	27.94	28.12	29.00	-4.26	23.57	23.68	23.86
4 Txslots	26.47	26.59	26.76	27.50	-3.01	23.46	23.58	23.75
GSM 850 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.69	31.71	31.76	32.50	-9.03	22.66	22.68	22.73
2 Txslots	29.46	29.58	29.68	30.50	-6.02	23.44	23.56	23.66
3Txslots	27.82	27.91	28.07	29.00	-4.26	23.56	23.65	23.81
4 Txslots	26.46	26.57	26.72	27.50	-3.01	23.45	23.56	23.71
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	25.60	25.70	25.42	27.50	-9.03	16.57	16.67	16.39
2 Txslots	23.16	23.22	23.20	24.50	-6.02	17.14	17.20	17.18
3Txslots	20.89	20.90	21.49	22.50	-4.26	16.63	16.64	17.23
4 Txslots	21.10	21.16	20.12	22.00	-3.01	18.09	18.15	17.11

NOTES:
1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM850

Table 11.1-4: The conducted power measurement results for GSM, GPRS and EGPRS- Level B2/C2

GSM 850 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.64	32.69	32.71	33.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.67	32.71	32.72	33.50	-9.03	23.64	23.68	23.69
2 Txslots	30.05	30.15	30.26	31.00	-6.02	24.03	24.13	24.24
3Txslots	28.48	28.65	28.80	29.50	-4.26	24.22	24.39	24.54
4 Txslots	27.10	27.29	27.43	28.50	-3.01	24.09	24.28	24.42
GSM 850 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.66	32.69	32.69	33.50	-9.03	23.63	23.66	23.66
2 Txslots	30.03	30.13	30.22	31.00	-6.02	24.01	24.11	24.20
3Txslots	28.46	28.62	28.75	29.50	-4.26	24.20	24.36	24.49
4 Txslots	27.08	27.26	27.40	28.50	-3.01	24.07	24.25	24.39
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	25.55	25.51	25.58	27.50	-9.03	16.52	16.48	16.55
2 Txslots	23.95	23.97	24.07	25.50	-6.02	17.93	17.95	18.05
3Txslots	21.70	21.69	21.81	23.50	-4.26	17.44	17.43	17.55
4 Txslots	20.67	20.72	20.83	22.50	-3.01	17.66	17.71	17.82

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM850

Table 11.1-4: The conducted power measurement results for GSM, GPRS and EGPRS- Level D2

GSM 850 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	29.67	29.87	29.97	30.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	29.62	29.83	29.96	30.50	-9.03	20.59	20.80	20.93
2 Txslots	27.18	27.36	27.53	28.50	-6.02	21.16	21.34	21.51
3Txslots	25.68	25.86	26.05	27.00	-4.26	21.42	21.60	21.79
4 Txslots	26.53	26.71	26.87	27.00	-3.01	23.52	23.70	23.86
GSM 850 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	29.79	29.86	29.95	30.50	-9.03	20.76	20.83	20.92
2 Txslots	27.26	27.38	27.52	28.50	-6.02	21.24	21.36	21.50
3Txslots	25.73	25.88	26.04	27.00	-4.26	21.47	21.62	21.78
4 Txslots	26.58	26.72	26.85	27.50	-3.01	23.57	23.71	23.84
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	23.21	23.25	23.38	24.50	-9.03	14.18	14.22	14.35
2 Txslots	21.08	21.11	21.23	23.00	-6.02	15.06	15.09	15.21
3Txslots	19.17	19.10	19.30	21.50	-4.26	14.91	14.84	15.04
4 Txslots	21.25	19.91	20.08	21.50	-3.01	18.24	16.90	17.07

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM850

Table 11.1-2: The conducted power measurement results for GSM, GPRS and EGPRS Level A2/D2

PCS1900 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.77	26.75	26.71	27.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.82	26.76	26.70	27.50	-9.03	17.79	17.73	17.67
2 Txslots	23.56	23.51	23.51	24.50	-6.02	17.54	17.49	17.49
3Txslots	22.82	22.81	22.82	23.50	-4.26	18.56	18.55	18.56
4 Txslots	21.01	21.03	21.07	22.50	-3.01	18.00	18.02	18.06
PCS1900 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.68	26.71	26.69	27.50	-9.03	17.65	17.68	17.66
2 Txslots	23.47	23.48	23.50	24.50	-6.02	17.45	17.46	17.48
3Txslots	22.76	22.79	22.83	23.50	-4.26	18.50	18.53	18.57
4 Txslots	20.96	21.02	21.07	22.50	-3.01	17.95	18.01	18.06
PCS1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	22.86	22.23	21.97	23.50	-9.03	13.83	13.20	12.94
2 Txslots	19.97	19.75	19.56	20.50	-6.02	13.95	13.73	13.54
3Txslots	18.43	18.29	18.43	19.50	-4.26	14.17	14.03	14.17
4 Txslots	18.34	18.37	18.04	19.50	-3.01	15.33	15.36	15.03

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-2: The conducted power measurement results for GSM, GPRS and EGPRS Level B2

PCS1900 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.99	29.97	29.98	30.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.94	29.92	29.92	30.50	-9.03	20.91	20.89	20.89
2 Txslots	26.72	26.69	26.78	27.50	-6.02	20.70	20.67	20.76
3Txslots	25.98	25.96	26.05	26.50	-4.26	21.72	21.70	21.79
4 Txslots	24.18	24.16	24.28	25.00	-3.01	21.17	21.15	21.27
PCS1900 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.87	29.90	29.91	30.50	-9.03	20.84	20.87	20.88
2 Txslots	26.71	26.68	26.76	27.50	-6.02	20.69	20.66	20.74
3Txslots	25.88	25.94	26.03	26.50	-4.26	21.62	21.68	21.77
4 Txslots	24.14	24.14	24.26	25.00	-3.01	21.13	21.13	21.25
PCS1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	25.70	25.58	25.93	26.50	-9.03	16.67	16.55	16.90
2 Txslots	23.26	23.19	23.19	24.00	-6.02	17.24	17.17	17.17
3Txslots	21.78	21.52	21.63	22.00	-4.26	17.52	17.26	17.37
4 Txslots	20.64	20.79	20.60	21.50	-3.01	17.63	17.78	17.59

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-2: The conducted power measurement results for GSM, GPRS and EGPRS Level C2

PCS1900 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.57	29.51	29.57	30.00	/	/	/	/
PCS1900 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.19	29.21	29.28	30.00	-9.03	20.16	20.18	20.25
2 Txslots	25.89	25.88	25.96	27.00	-6.02	19.87	19.86	19.94
3Txslots	25.14	25.15	25.27	26.00	-4.26	20.88	20.89	21.01
4 Txslots	23.38	23.43	23.58	24.00	-3.01	20.37	20.42	20.57
PCS1900 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.28	29.27	29.33	30.00	-9.03	20.25	20.24	20.30
2 Txslots	25.96	25.94	26.05	27.00	-6.02	19.94	19.92	20.03
3Txslots	25.22	25.21	25.35	26.00	-4.26	20.96	20.95	21.09
4 Txslots	23.46	23.50	23.66	24.00	-3.01	20.45	20.49	20.65
PCS1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	24.57	24.51	24.43	26.00	-9.03	15.54	15.48	15.40
2 Txslots	22.35	22.83	22.16	23.00	-6.02	16.33	16.81	16.14
3Txslots	20.98	20.93	20.76	22.00	-4.26	16.72	16.67	16.50
4 Txslots	20.48	19.97	19.84	21.00	-3.01	17.47	16.96	16.83

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power for WCDMA Level A1/D1

Item	band	FDDV result			
	ARFCN	4132 (826.4MHz)	4182 (836.4MHz)	4233 (846.6MHz)	Tune up
WCDMA	1	23.69	23.65	23.71	25.00
HSUPA	1	22.45	22.52	22.62	23.80
	2	20.43	20.51	20.61	21.80
	3	21.48	21.48	21.61	22.80
	4	20.45	20.48	20.50	21.80
	5	22.42	22.50	22.56	23.80
DC-HSDPA	1	22.47	22.55	22.59	23.80
	2	22.48	22.53	22.58	23.80
	3	21.97	22.03	22.05	23.40
	4	21.96	22.00	22.03	23.40
Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	23.25	23.30	23.40	24.50
HSUPA	1	22.05	21.97	21.96	23.20
	2	20	19.92	19.94	21.20
	3	20.96	20.95	21.05	22.20
	4	19.98	19.94	19.96	21.20
	5	22.02	21.98	21.96	23.20
DC-HSDPA	1	21.95	21.93	21.96	23.20
	2	21.98	21.96	21.98	23.20
	3	21.46	21.52	21.56	22.70
	4	21.42	21.50	21.54	22.70
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	23.14	23.13	23.22	24.50
HSUPA	1	21.8	21.85	21.90	23.20
	2	19.77	19.85	19.88	21.20
	3	20.78	20.79	20.86	22.20
	4	19.8	19.82	19.86	21.20
	5	21.82	21.83	21.85	23.20
DC-HSDPA	1	21.82	21.83	21.85	23.20
	2	21.82	21.81	21.86	23.20
	3	21.35	21.31	21.35	22.70
	4	21.31	21.30	21.32	22.70

Table 11.2-2: The conducted Power for WCDMA Level B1

Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	19.42	19.49	19.50	21.00
HSUPA	1	18.43	18.35	18.34	19.20
	2	16.38	16.30	16.32	17.20
	3	17.34	17.33	17.43	18.20
	4	16.36	16.32	16.34	17.20
	5	18.4	18.36	18.34	19.20
DC-HSDPA	1	18.33	18.31	18.34	19.20
	2	18.36	18.34	18.36	19.20
	3	17.84	17.90	17.94	18.70
	4	17.8	17.88	17.92	18.70
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	20.37	20.36	20.38	21.50
HSUPA	1	19.3	19.35	19.40	20.20
	2	17.27	17.35	17.38	18.20
	3	18.28	18.29	18.36	19.20
	4	17.3	17.32	17.36	18.20
	5	19.32	19.33	19.35	20.20
DC-HSDPA	1	19.32	19.33	19.35	20.20
	2	19.32	19.31	19.36	20.20
	3	18.85	18.81	18.85	19.70
	4	18.81	18.80	18.82	19.70

Table 11.2-3: The conducted Power for WCDMA Level C1

Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	18.85	18.94	18.98	20.50
HSUPA	1	17.86	17.78	17.77	19.20
	2	15.81	15.73	15.75	17.20
	3	16.77	16.76	16.86	18.20
	4	15.79	15.75	15.77	17.20
	5	17.83	17.79	17.77	19.20
DC-HSDPA	1	17.76	17.74	17.77	19.20
	2	17.79	17.77	17.79	19.20
	3	17.27	17.33	17.37	18.70
	4	17.23	17.31	17.35	18.70
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	18.41	18.35	18.43	20.00
HSUPA	1	17.34	17.39	17.44	18.70

	2	15.31	15.39	15.42	16.70
	3	16.32	16.33	16.40	17.70
	4	15.34	15.36	15.40	16.70
	5	17.36	17.37	17.39	18.70
DC-HSDPA	1	17.36	17.37	17.39	18.70
	2	17.36	17.35	17.40	18.70
	3	16.89	16.85	16.89	18.20
	4	16.85	16.84	16.86	18.20

Table 11.2-4: The conducted Power for WCDMA Level A2

Item	band	FDDV result			
	ARFCN	4132 (826.4MHz)	4182 (836.4MHz)	4233 (846.6MHz)	Tune up
WCDMA	1	22.90	23.00	23.10	23.50
HSUPA	1	21.66	21.73	21.83	22.80
	2	19.64	19.72	19.82	20.80
	3	20.69	20.69	20.82	21.80
	4	19.66	19.69	19.71	20.80
	5	21.63	21.71	21.77	22.80
DC-HSDPA	1	21.68	21.76	21.80	22.80
	2	21.69	21.74	21.79	22.80
	3	21.18	21.24	21.26	22.40
	4	21.17	21.21	21.24	22.40
Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	15.42	15.4	15.41	17.00
HSUPA	1	14.22	14.14	14.13	15.70
	2	12.17	12.09	12.11	13.20
	3	13.13	13.12	13.22	14.70
	4	12.15	12.11	12.13	13.70
	5	14.19	14.15	14.13	15.70
DC-HSDPA	1	14.12	14.10	14.13	15.70
	2	14.15	14.13	14.15	15.70
	3	13.63	13.69	13.73	15.20
	4	13.59	13.67	13.71	15.20
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	15.43	15.41	15.65	17.00
HSUPA	1	14.09	14.14	14.19	15.70
	2	12.06	12.14	12.17	13.20
	3	13.07	13.08	13.15	14.70
	4	12.09	12.11	12.15	13.70
	5	14.11	14.12	14.14	15.70
DC-HSDPA	1	14.11	14.12	14.14	15.70

	2	14.11	14.10	14.15	15.70
	3	13.64	13.60	13.64	15.20
	4	13.6	13.59	13.61	15.20

Table 11.2-5: The conducted Power for WCDMA Level D2

Item	band	FDDV result			
	ARFCN	4132 (826.4MHz)	4182 (836.4MHz)	4233 (846.6MHz)	Tune up
WCDMA	1	19.97	19.96	20.08	21.50
HSUPA	1	18.73	18.80	18.90	20.30
	2	16.71	16.79	16.89	18.30
	3	17.76	17.76	17.89	19.30
	4	16.73	16.76	16.78	18.30
	5	18.7	18.78	18.84	20.30
DC-HSDPA	1	18.75	18.83	18.87	20.30
	2	18.76	18.81	18.86	20.30
	3	18.25	18.31	18.33	19.90
	4	18.24	18.28	18.31	19.90
Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	13.85	13.90	13.89	15.50
HSUPA	1	12.65	12.57	12.56	14.20
	2	10.6	10.52	10.54	12.20
	3	11.56	11.55	11.65	13.20
	4	10.58	10.54	10.56	12.20
	5	12.62	12.58	12.56	14.20
DC-HSDPA	1	12.55	12.53	12.56	14.20
	2	12.58	12.56	12.58	14.20
	3	12.06	12.12	12.16	13.70
	4	12.02	12.10	12.14	13.70
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	13.72	13.78	13.77	15.50
HSUPA	1	12.38	12.43	12.48	14.20
	2	10.35	10.43	10.46	12.20
	3	11.36	11.37	11.44	13.20
	4	10.38	10.40	10.44	12.20
	5	12.4	12.41	12.43	14.20
DC-HSDPA	1	12.4	12.41	12.43	14.20
	2	12.4	12.39	12.44	14.20
	3	11.93	11.89	11.93	13.70
	4	11.89	11.88	11.90	13.70

Table 11.2-6: The conducted Power for WCDMA Level B2/C2

Item	band	FDDV result			
	ARFCN	4132 (826.4MHz)	4182 (836.4MHz)	4233 (846.6MHz)	Tune up
WCDMA	1	23.41	23.49	23.44	25.00
HSUPA	1	22.37	22.45	22.46	23.80
	2	20.41	20.37	20.55	21.80
	3	21.38	21.40	21.58	22.80
	4	20.37	20.40	20.49	21.80
	5	22.39	22.46	22.54	23.80
DC-HSDPA	1	22.29	22.37	22.41	23.80
	2	22.4	22.48	22.52	23.80
	3	21.94	21.98	22.02	23.40
	4	21.91	21.99	22.01	23.40

Table 11.2-7: The conducted Power for WCDMA Level B2

Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	20.44	20.35	20.43	22.00
HSUPA	1	19.24	19.16	19.15	20.70
	2	17.19	17.11	17.13	18.70
	3	18.15	18.14	18.24	19.70
	4	17.17	17.13	17.15	18.70
	5	19.21	19.17	19.15	20.70
DC-HSDPA	1	19.14	19.12	19.15	20.70
	2	19.17	19.15	19.17	20.70
	3	18.65	18.71	18.75	20.20
	4	18.61	18.69	18.73	20.20
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	20.16	20.22	20.30	21.50
HSUPA	1	19.12	19.17	19.22	20.20
	2	17.09	17.17	17.20	18.20
	3	18.1	18.11	18.18	19.20
	4	17.12	17.14	17.18	18.20
	5	19.14	19.15	19.17	20.20
DC-HSDPA	1	19.14	19.15	19.17	20.20
	2	19.14	19.13	19.18	20.20
	3	18.67	18.63	18.67	19.70
	4	18.63	18.62	18.64	19.70

Table 11.2-8: The conducted Power for WCDMA Level C2

Item	band	FDDIV result			
	ARFCN	1312 (1712.4MHz)	1412 (1732.4MHz)	1513 (1752.6MHz)	
WCDMA	1	18.89	18.83	18.94	20.50
HSUPA	1	17.69	17.61	17.60	19.20
	2	15.64	15.56	15.58	172.00
	3	16.6	16.59	16.69	18.20
	4	15.62	15.58	15.60	17.20
	5	17.66	17.62	17.60	19.20
DC-HSDPA	1	17.59	17.57	17.60	19.20
	2	17.62	17.60	17.62	19.20
	3	17.1	17.16	17.20	18.70
	4	17.06	17.14	17.18	18.70
Item	band	FDDII result			
	ARFCN	9262 (1852.4MHz)	9400 (1880MHz)	9538 (1907.6MHz)	
WCDMA	1	17.75	17.78	17.80	19.50
HSUPA	1	16.41	16.46	16.51	18.20
	2	14.38	14.46	14.49	16.20
	3	15.39	15.40	15.47	17.20
	4	14.41	14.43	14.47	16.20
	5	16.43	16.44	16.46	18.20
DC-HSDPA	1	16.43	16.44	16.46	18.20
	2	16.43	16.42	16.47	18.20
	3	15.96	15.92	15.96	17.70
	4	15.92	15.91	15.93	17.70

11.3 LTE Measurement result

Table 11.3-1: The tune up for LTE– Power Level A1/D1

Band	Tune up
LTE Band 2	24

Table 11.3-2: Maximum Power Reduction (MPR) for LTE- Power Level A1/D1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2

Table 11.3-3: The tune up for LTE– Power Level B1

Band	Tune up
LTE Band 2	22.5

Table 11.3-4: The tune up for LTE– Power Level C1

Band	Tune up
LTE Band 2	21

Table 11.4-6: Maximum Power Reduction (MPR) for LTE- Power Level B1/C1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-6: The tune up for LTE– Power Level A1/B1/C1/D1

Band	Tune up
LTE Band 5	25
LTE Band 12	24.5
LTE Band 26	25

Table 11.4-7: Maximum Power Reduction (MPR) for LTE- Power Level A1/B1/C1/D1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-8: The tune up for LTE– Power Level A1/ D1

Band	Tune up
LTE Band 7	24.2

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A1/D1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level B1/C1

Band	Tune up
LTE Band 7	22

Table 11.4-11: Maximum Power Reduction (MPR) for LTE- Power Level B1/C1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level A1/B1/D1

Band	Tune up
LTE Band 41	24.5
LTE Band 66	24.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A1/B1/D1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level C1

Band	Tune up
LTE Band 41	24

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level C1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2

Table 11.4-10: The tune up for LTE– Power Level C1

Band	Tune up
LTE Band 66	21.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level C1

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level A2

Band	Tune up
LTE Band 2	17

Table 11.4-10: The tune up for LTE– Power Level B2

Band	Tune up
LTE Band 2	22

Table 11.4-10: The tune up for LTE– Power Level C2

Band	Tune up
LTE Band 2	20

Table 11.4-10: The tune up for LTE– Power Level D2

Band	Tune up
LTE Band 2	15.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/B2/C2/D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level A2

Band	Tune up
LTE Band 5	23

Table 11.4-10: The tune up for LTE– Power Level D2

Band	Tune up
LTE Band 5	22

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/ D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level B2/C2

Band	Tune up
LTE Band 5	25

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level B2/C2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level A2/D2

Band	Tune up
LTE Band 7	17

Table 11.4-10: The tune up for LTE– Power Level B2/C2

Band	Tune up
LTE Band 7	21

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/B2/C2/D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level A2/B2/C2

Band	Tune up
LTE Band 12	24.5

Table 11.4-10: The tune up for LTE– Power Level D2

Band	Tune up
LTE Band 12	24

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/B2/C2/D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level A2

Band	Tune up
LTE Band 26	24

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2

Table 11.4-10: The tune up for LTE– Power Level D2

Band	Tune up
LTE Band 26	22.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level B2/C2

Band	Tune up
LTE Band 26	25

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level B2/C2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level A2/D2

Band	Tune up
LTE Band 41	17.5

Table 11.4-10: The tune up for LTE– Power Level C2

Band	Tune up
LTE Band 41	23

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/C2/D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level B2

Band	Tune up
LTE Band 41	24.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level B2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level A2/D2

Band	Tune up
LTE Band 66	14

Table 11.4-10: The tune up for LTE– Power Level C2

Band	Tune up
LTE Band 66	21

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A2/C2/D2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

Table 11.4-10: The tune up for LTE– Power Level B2

Band	Tune up
LTE Band 66	24.5

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level B2

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Table 11.4-10: The tune up for LTE– Power Level A3/B3/C3/D3

Band	Tune up
LTE Band 7	23

Table 11.4-9: Maximum Power Reduction (MPR) for LTE- Power Level A3/B3/C3/D3

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4	3	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	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

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

Power Level A1/D1

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	22.59	21.23	21.39
		1880	23.27	22.50	22.50
		1850.7	23.35	22.78	22.73
	1RB Middle (3)	1909.3	22.16	21.43	21.50
		1880	23.37	22.55	22.58
		1850.7	23.46	22.84	22.80
	1RB Low (0)	1909.3	22.22	21.46	21.54
		1880	23.38	22.73	22.58
		1850.7	23.45	22.79	22.67
	3RB High (3)	1909.3	22.02	21.24	21.27
		1880	23.30	22.37	22.37
		1850.7	23.47	22.41	22.52
	3RB Middle (1)	1909.3	22.15	21.35	21.42
		1880	23.36	22.47	22.57
		1850.7	23.46	22.48	22.56
	3RB Low (0)	1909.3	22.24	21.39	21.42
		1880	23.37	22.47	22.44
		1850.7	23.51	22.54	22.55
	6RB (0)	1909.3	21.26	20.49	20.42
		1880	22.44	21.49	21.38
		1850.7	22.50	21.54	21.59
3 MHz	1RB High (14)	1908.5	22.55	21.41	21.47
		1880	23.33	22.60	22.64
		1851.5	23.37	22.81	22.65
	1RB Middle (7)	1908.5	22.44	21.66	21.69
		1880	23.37	22.63	22.68
		1851.5	23.38	22.76	22.79
	1RB Low (0)	1908.5	22.67	21.82	21.88
		1880	23.41	22.93	22.67
		1851.5	23.43	22.90	22.72
	8RB High (7)	1908.5	21.41	20.59	20.57
		1880	22.41	21.45	21.42
		1851.5	22.51	21.58	21.54
	8RB Middle (4)	1908.5	21.54	20.71	20.73
		1880	22.51	21.61	21.49
		1851.5	22.62	21.66	21.55
	8RB Low (0)	1908.5	21.65	20.86	20.84
		1880	22.55	21.53	21.52

	15RB (0)	1851.5	22.63	21.65	21.77
		1908.5	21.51	20.63	20.63
		1880	22.43	21.48	21.45
		1851.5	22.56	21.57	21.56
5 MHz	1RB High (24)	1907.5	22.58	21.53	21.60
		1880	23.35	22.67	22.60
		1852.5	23.45	22.86	22.68
	1RB Middle (12)	1907.5	22.66	21.75	21.81
		1880	23.36	22.60	22.74
		1852.5	23.40	22.76	22.69
	1RB Low (0)	1907.5	22.90	22.03	22.05
		1880	23.38	22.86	22.56
		1852.5	23.45	22.80	22.74
	12RB High (13)	1907.5	21.45	20.67	20.70
		1880	22.44	21.47	21.43
		1852.5	22.49	21.49	21.53
	12RB Middle (6)	1907.5	21.74	20.86	20.88
		1880	22.49	21.56	21.50
		1852.5	22.49	21.57	21.51
	12RB Low (0)	1907.5	21.85	21.02	20.99
		1880	22.43	21.46	21.49
		1852.5	22.54	21.62	21.66
	25RB (0)	1907.5	21.60	20.75	20.74
		1880	22.43	21.39	21.41
		1852.5	22.47	21.59	21.63
10 MHz	1RB High (49)	1905	22.63	21.48	21.60
		1880	23.24	22.66	22.53
		1855	23.21	22.63	22.60
	1RB Middle (24)	1905	22.77	21.76	21.94
		1880	23.46	22.63	22.43
		1855	23.11	22.57	22.43
	1RB Low (0)	1905	22.82	21.73	22.00
		1880	23.45	22.74	22.54
		1855	23.18	22.81	22.70
	25RB High (25)	1905	21.76	20.82	20.83
		1880	22.37	21.46	21.35
		1855	22.31	21.47	21.49
	25RB Middle (12)	1905	21.92	20.99	21.06
		1880	22.48	21.49	21.41
		1855	22.44	21.68	21.61
	25RB Low (0)	1905	21.95	21.08	21.09
		1880	22.34	21.49	21.40
		1855	22.55	21.56	21.49
	50RB (0)	1905	21.53	20.86	20.88
		1880	22.47	21.48	21.40
		1855	22.27	21.52	21.51
15 MHz	1RB High (74)	1902.5	22.48	21.60	21.71
		1880	23.16	22.66	22.51

	1RB Middle (37)	1857.5	23.12	22.45	22.42
		1902.5	22.72	21.76	21.86
		1880	23.15	22.55	22.45
	1RB Low (0)	1857.5	23.01	22.31	22.34
		1902.5	22.98	22.10	22.17
		1880	23.20	22.57	22.52
	36RB High (38)	1857.5	23.16	22.51	22.63
		1902.5	21.78	20.91	20.91
		1880	22.23	21.25	21.29
	36RB Middle (19)	1857.5	22.34	21.44	21.42
		1902.5	21.89	21.03	21.10
		1880	22.25	21.34	21.33
	36RB Low (0)	1857.5	22.34	21.47	21.36
		1902.5	21.86	21.02	21.10
		1880	22.32	21.31	21.30
	75RB (0)	1857.5	22.44	21.47	21.45
		1902.5	21.52	20.88	20.84
		1880	22.30	21.29	21.30
20 MHz	1RB High (99)	1857.5	22.39	21.49	21.48
		1900	22.59	21.60	21.82
		1880	23.16	22.69	22.51
	1RB Middle (50)	1860	23.24	22.47	22.53
		1900	22.77	21.64	21.84
		1880	23.19	22.47	22.37
	1RB Low (0)	1860	23.15	22.39	22.41
		1900	23.31	22.23	22.48
		1880	23.20	22.44	22.51
	50RB High (50)	1860	23.29	22.61	22.57
		1900	21.74	20.95	20.90
		1880	22.22	21.30	21.31
	50RB Middle (25)	1860	22.33	21.38	21.34
		1900	21.90	21.04	21.01
		1880	22.28	21.22	21.18
	50RB Low (0)	1860	22.30	21.39	21.38
		1900	22.06	21.21	21.23
		1880	22.31	21.25	21.26
	100RB (0)	1860	22.32	21.27	21.32
		1900	21.50	20.96	20.98
		1880	22.15	21.20	21.25
		1860	22.37	21.37	21.46

Power Level B1

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	21.16	21.31	21.27
		1880	21.16	21.35	21.25
		1850.7	21.15	21.47	21.36
	1RB Middle (3)	1909.3	21.27	21.46	21.41
		1880	21.19	21.45	21.39
		1850.7	21.21	21.50	21.34
	1RB Low (0)	1909.3	21.25	21.48	21.31
		1880	21.22	21.47	21.34
		1850.7	21.23	21.42	21.50
	3RB High (3)	1909.3	21.24	21.22	21.24
		1880	21.11	21.15	21.37
		1850.7	21.19	21.21	21.25
	3RB Middle (1)	1909.3	21.33	21.24	21.40
		1880	21.24	21.35	21.26
		1850.7	21.31	21.28	21.45
	3RB Low (0)	1909.3	21.30	21.38	21.32
		1880	21.18	21.25	21.29
		1850.7	21.20	21.31	21.31
	6RB (0)	1909.3	21.22	21.14	21.13
		1880	21.23	21.30	21.23
		1850.7	21.29	21.33	21.30
3 MHz	1RB High (14)	1908.5	21.23	21.44	21.42
		1880	21.17	21.59	21.33
		1851.5	21.12	21.58	21.43
	1RB Middle (7)	1908.5	21.25	21.54	21.43
		1880	21.20	21.45	21.46
		1851.5	21.32	21.53	21.43
	1RB Low (0)	1908.5	21.34	21.66	21.67
		1880	21.21	21.56	21.49
		1851.5	21.25	21.70	21.50
	8RB High (7)	1908.5	21.30	21.19	21.14
		1880	21.29	21.38	21.29
		1851.5	21.26	21.40	21.32
	8RB Middle (4)	1908.5	21.39	20.61	20.56
		1880	21.33	21.36	21.39
		1851.5	21.36	21.40	21.46
	8RB Low (0)	1908.5	21.43	20.65	20.60
		1880	21.33	21.31	21.36
		1851.5	21.38	21.46	21.42
	15RB (0)	1908.5	21.35	21.11	21.14
		1880	21.26	21.25	21.25
		1851.5	21.34	21.33	21.37

5 MHz	1RB High (24)	1907.5	21.24	21.32	21.27
		1880	21.20	21.45	21.53
		1852.5	21.14	21.66	21.41
	1RB Middle (12)	1907.5	21.35	21.51	21.51
		1880	21.23	21.54	21.41
		1852.5	21.27	21.49	21.43
	1RB Low (0)	1907.5	21.31	21.64	21.50
		1880	21.17	21.52	21.45
		1852.5	21.33	21.70	21.58
	12RB High (13)	1907.5	21.31	21.09	21.04
		1880	21.24	21.34	21.27
		1852.5	21.27	21.31	21.30
	12RB Middle (6)	1907.5	21.39	20.64	20.58
		1880	21.34	21.31	21.36
		1852.5	21.39	21.40	21.31
	12RB Low (0)	1907.5	21.43	20.66	20.63
		1880	21.30	21.33	21.30
		1852.5	21.41	21.39	21.42
	25RB (0)	1907.5	21.32	20.51	21.07
		1880	21.28	21.27	21.30
		1852.5	21.37	21.33	21.29
10 MHz	1RB High (49)	1905	21.17	21.13	21.28
		1880	21.25	21.43	21.31
		1855	21.21	21.53	21.45
	1RB Middle (24)	1905	21.31	21.31	21.42
		1880	21.27	21.28	21.46
		1855	21.04	21.57	21.39
	1RB Low (0)	1905	21.27	21.61	21.57
		1880	21.18	21.69	21.53
		1855	21.27	21.71	21.51
	25RB High (25)	1905	21.40	20.54	20.59
		1880	21.36	21.37	21.31
		1855	21.33	21.19	21.18
	25RB Middle (12)	1905	21.41	20.67	20.63
		1880	21.33	21.28	21.25
		1855	21.36	21.32	21.31
	25RB Low (0)	1905	21.46	20.69	20.70
		1880	21.25	21.36	21.31
		1855	21.37	21.43	21.35
	50RB (0)	1905	21.17	21.08	20.53
		1880	21.18	21.33	21.27
		1855	21.39	21.25	21.22
15 MHz	1RB High (74)	1902.5	21.16	21.29	21.20
		1880	21.08	21.36	21.24
		1857.5	21.08	21.47	21.36
	1RB Middle (37)	1902.5	21.13	21.33	21.40
		1880	21.16	21.40	21.35
		1857.5	21.04	21.40	21.29

	1RB Low (0)	1902.5	21.06	21.36	21.45
		1880	21.15	21.26	21.27
		1857.5	21.10	21.49	21.33
	36RB High (38)	1902.5	21.28	20.54	20.54
		1880	21.24	21.20	21.23
		1857.5	21.24	21.13	21.08
	36RB Middle (19)	1902.5	21.26	20.63	20.62
		1880	21.16	21.17	21.07
		1857.5	21.28	21.13	21.15
	36RB Low (0)	1902.5	21.27	20.74	20.75
		1880	21.12	21.17	21.13
		1857.5	21.15	21.22	21.20
	75RB (0)	1902.5	21.28	21.07	20.55
		1880	21.06	21.09	21.23
		1857.5	21.21	21.18	21.20
20 MHz	1RB High (99)	1900	21.14	21.22	21.32
		1880	21.16	21.37	21.34
		1860	20.97	21.33	21.29
	1RB Middle (50)	1900	21.04	21.39	21.38
		1880	21.05	21.37	21.28
		1860	21.14	21.39	21.22
	1RB Low (0)	1900	21.18	21.39	21.18
		1880	21.01	21.49	21.30
		1860	21.17	21.34	21.22
	50RB High (50)	1900	21.23	21.08	20.50
		1880	21.18	21.19	21.19
		1860	21.28	20.98	21.03
	50RB Middle (25)	1900	21.22	20.61	20.68
		1880	21.07	21.20	21.11
		1860	21.17	21.05	21.09
	50RB Low (0)	1900	21.21	20.86	20.91
		1880	21.09	21.14	21.13
		1860	21.14	21.17	21.09
	100RB (0)	1900	21.28	20.60	20.61
		1880	21.14	21.19	21.10
		1860	21.17	21.08	21.12

Power Level C1

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	19.69	19.97	19.85
		1880	19.65	19.96	19.79
		1850.7	19.59	20.04	19.82
	1RB Middle (3)	1909.3	19.81	20.09	20.12
		1880	19.68	20.07	19.78
		1850.7	19.71	20.08	19.95
	1RB Low (0)	1909.3	19.73	20.07	20.05
		1880	19.70	20.00	19.90
		1850.7	19.74	20.07	19.81
	3RB High (3)	1909.3	19.74	19.79	19.85
		1880	19.70	19.77	19.71
		1850.7	19.66	19.74	19.80
	3RB Middle (1)	1909.3	19.82	19.99	19.89
		1880	19.67	19.74	19.85
		1850.7	19.78	19.91	19.94
	3RB Low (0)	1909.3	19.80	19.84	19.92
		1880	19.71	19.81	19.76
		1850.7	19.73	19.89	19.79
	6RB (0)	1909.3	19.83	19.90	19.82
		1880	19.70	19.82	19.78
		1850.7	19.78	19.90	19.75
3 MHz	1RB High (14)	1908.5	19.67	20.14	20.04
		1880	19.66	20.02	19.87
		1851.5	19.68	20.00	19.86
	1RB Middle (7)	1908.5	19.85	20.05	20.09
		1880	19.69	20.14	19.89
		1851.5	19.76	20.12	20.06
	1RB Low (0)	1908.5	19.90	20.22	20.23
		1880	19.69	20.10	19.99
		1851.5	19.80	20.14	20.09
	8RB High (7)	1908.5	19.90	19.89	19.87
		1880	19.79	19.85	19.84
		1851.5	19.76	19.85	19.81
	8RB Middle (4)	1908.5	19.97	19.93	19.99
		1880	19.89	19.89	19.80
		1851.5	19.87	19.94	19.92
	8RB Low (0)	1908.5	19.94	20.08	19.97
		1880	19.84	19.83	19.88
		1851.5	19.90	19.95	19.94
	15RB (0)	1908.5	19.88	19.92	19.89
		1880	19.76	19.83	19.71
		1851.5	19.86	19.88	19.82

5 MHz	1RB High (24)	1907.5	19.78	20.08	20.11
		1880	19.74	20.05	19.92
		1852.5	19.66	20.12	19.96
	1RB Middle (12)	1907.5	19.86	20.02	20.07
		1880	19.71	20.10	19.96
		1852.5	19.70	19.98	19.94
	1RB Low (0)	1907.5	19.85	20.26	20.10
		1880	19.77	20.11	19.86
		1852.5	19.74	20.25	20.01
	12RB High (13)	1907.5	19.85	19.89	19.91
		1880	19.77	19.79	19.78
		1852.5	19.78	19.84	19.83
	12RB Middle (6)	1907.5	19.93	19.94	19.87
		1880	19.79	19.89	19.82
		1852.5	19.85	19.97	19.89
	12RB Low (0)	1907.5	19.99	19.95	19.93
		1880	19.82	19.84	19.87
		1852.5	19.89	19.90	19.92
	25RB (0)	1907.5	19.90	19.88	19.88
		1880	19.78	19.83	19.80
		1852.5	19.80	19.87	19.85
10 MHz	1RB High (49)	1905	19.79	20.07	19.96
		1880	19.71	19.96	19.85
		1855	19.61	20.00	20.03
	1RB Middle (24)	1905	19.63	20.01	19.96
		1880	19.84	19.90	19.88
		1855	19.67	19.79	19.96
	1RB Low (0)	1905	19.84	20.08	20.06
		1880	19.69	20.12	19.91
		1855	19.89	20.18	20.09
	25RB High (25)	1905	19.89	19.85	19.91
		1880	19.83	19.90	19.83
		1855	19.81	19.80	19.67
	25RB Middle (12)	1905	19.95	19.96	19.98
		1880	19.76	19.82	19.78
		1855	19.90	19.86	19.94
	25RB Low (0)	1905	19.91	20.00	19.92
		1880	19.77	19.81	19.80
		1855	19.84	19.97	19.97
	50RB (0)	1905	19.86	19.95	19.96
		1880	19.79	19.79	19.75
		1855	19.83	19.89	19.89
15 MHz	1RB High (74)	1902.5	19.64	19.90	19.85
		1880	19.48	19.96	19.75
		1857.5	19.55	19.89	19.76
	1RB Middle (37)	1902.5	19.57	20.00	19.87
		1880	19.50	19.81	19.77
		1857.5	19.48	19.87	19.76

	1RB Low (0)	1902.5	19.52	19.95	19.70
		1880	19.70	19.94	19.86
		1857.5	19.73	19.85	19.85
	36RB High (38)	1902.5	19.71	19.75	19.77
		1880	19.67	19.73	19.76
		1857.5	19.70	19.74	19.69
	36RB Middle (19)	1902.5	19.70	19.71	19.72
		1880	19.60	19.62	19.69
		1857.5	19.69	19.74	19.78
	36RB Low (0)	1902.5	19.74	19.80	19.75
		1880	19.64	19.62	19.64
		1857.5	19.68	19.61	19.64
20 MHz	75RB (0)	1902.5	19.71	19.71	19.79
		1880	19.63	19.72	19.69
		1857.5	19.70	19.70	19.71
	1RB High (99)	1900	19.64	19.93	19.83
		1880	19.56	19.88	19.86
		1860	19.50	19.73	19.75
	1RB Middle (50)	1900	19.53	19.83	19.75
		1880	19.51	19.78	19.76
		1860	19.55	19.89	19.64
	1RB Low (0)	1900	19.61	19.81	19.83
		1880	19.72	19.88	19.86
		1860	19.71	19.96	19.84
	50RB High (50)	1900	19.72	19.74	19.84
		1880	19.74	19.71	19.71
		1860	19.70	19.66	19.76
	50RB Middle (25)	1900	19.66	19.63	19.78
		1880	19.62	19.67	19.68
		1860	19.65	19.73	19.71
	50RB Low (0)	1900	19.68	19.67	19.75
		1880	19.71	19.67	19.70
		1860	19.67	19.62	19.71
	100RB (0)	1900	19.70	19.79	19.74
		1880	19.59	19.53	19.63
		1860	19.68	19.69	19.69

Power Level A1/B1/C1/D1

Band 5					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	23.60	22.91	22.62
		836.5	23.58	22.93	22.80
		824.7	23.66	22.97	22.90
	1RB Middle (3)	848.3	23.59	23.03	22.87
		836.5	23.74	22.96	22.89
		824.7	23.66	23.09	22.93
	1RB Low (0)	848.3	23.56	22.87	22.82
		836.5	23.58	22.79	22.78
		824.7	23.73	22.96	22.92
	3RB High (3)	848.3	23.60	22.60	22.67
		836.5	23.66	22.60	22.69
		824.7	23.73	22.73	22.68
	3RB Middle (1)	848.3	23.64	22.65	22.75
		836.5	23.67	22.83	22.86
		824.7	23.72	22.79	22.91
	3RB Low (0)	848.3	23.71	22.56	22.71
		836.5	23.57	22.65	22.76
		824.7	23.75	22.72	22.83
	6RB (0)	848.3	22.68	21.73	21.67
		836.5	22.64	21.71	21.68
		824.7	22.69	21.78	21.78
3 MHz	1RB High (14)	847.5	23.69	22.91	22.81
		836.5	23.70	23.06	22.88
		825.5	23.70	23.20	22.96
	1RB Middle (7)	847.5	23.59	22.97	22.96
		836.5	23.67	22.97	22.96
		825.5	23.67	22.97	22.92
	1RB Low (0)	847.5	23.72	23.20	22.84
		836.5	23.73	22.95	22.86
		825.5	23.83	23.13	22.81
	8RB High (7)	847.5	22.77	21.78	21.78
		836.5	22.81	21.86	21.82
		825.5	22.82	21.82	21.86
	8RB Middle (4)	847.5	22.78	21.82	21.90
		836.5	22.77	21.88	21.88
		825.5	22.80	21.94	21.90
	8RB Low (0)	847.5	22.72	21.80	21.74
		836.5	22.74	21.80	21.73
		825.5	22.87	21.92	21.85
	15RB (0)	847.5	22.79	21.80	21.70
		836.5	22.71	21.75	21.73
		825.5	22.91	21.87	21.81

5 MHz	1RB High (24)	846.5	23.60	23.06	22.88
		836.5	23.76	23.03	22.87
		826.5	23.78	23.06	22.91
	1RB Middle (12)	846.5	23.70	23.05	22.97
		836.5	23.71	23.00	22.86
		826.5	23.73	22.93	22.96
	1RB Low (0)	846.5	23.64	22.99	22.84
		836.5	23.70	23.19	22.82
		826.5	23.84	23.08	22.95
	12RB High (13)	846.5	22.80	21.87	21.75
		836.5	22.82	21.80	21.87
		826.5	22.83	21.83	21.83
	12RB Middle (6)	846.5	22.72	21.73	21.73
		836.5	22.81	21.78	21.77
		826.5	22.83	21.91	21.87
	12RB Low (0)	846.5	22.72	21.77	21.77
		836.5	22.75	21.80	21.80
		826.5	22.86	21.95	21.87
	25RB (0)	846.5	22.77	21.80	21.73
		836.5	22.78	21.85	21.75
		826.5	22.87	21.83	21.95
10 MHz	1RB High (49)	844.0	23.68	22.96	22.86
		836.5	23.65	23.03	22.87
		829.0	23.53	22.91	22.79
	1RB Middle (24)	844.0	23.81	23.05	22.88
		836.5	23.69	23.05	22.78
		829.0	23.76	23.17	22.89
	1RB Low (0)	844.0	23.60	22.98	22.99
		836.5	23.67	23.05	22.96
		829.0	23.98	23.12	22.82
	25RB High (25)	844.0	22.69	21.75	21.74
		836.5	22.81	21.72	21.72
		829.0	22.76	21.81	21.83
	25RB Middle (12)	844.0	22.87	21.87	21.87
		836.5	22.78	21.77	21.82
		829.0	22.93	21.99	21.89
	25RB Low (0)	844.0	22.80	21.75	21.81
		836.5	22.83	21.86	21.82
		829.0	22.80	21.86	21.75
	50RB (0)	844.0	22.86	21.76	21.80
		836.5	22.73	21.86	21.81
		829.0	22.91	21.94	21.85

Power Level A1/ D1

Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	23.48	22.77	22.13
		2535	23.26	22.57	22.17
		2502.5	23.26	22.55	22.19
	1RB Middle (12)	2567.5	23.36	22.67	22.14
		2535	23.21	22.53	22.08
		2502.5	23.16	22.58	22.19
	1RB Low (0)	2567.5	23.38	22.62	22.08
		2535	23.13	22.49	22.01
		2502.5	23.18	22.50	22.17
	12RB High (13)	2567.5	22.47	21.53	21.20
		2535	22.36	21.39	21.08
		2502.5	22.40	21.39	21.09
	12RB Middle (6)	2567.5	22.46	21.48	21.09
		2535	22.35	21.32	21.01
		2502.5	22.34	21.36	21.04
	12RB Low (0)	2567.5	22.40	21.41	21.13
		2535	22.20	21.22	20.89
		2502.5	22.25	21.27	20.99
	25RB (0)	2567.5	22.43	21.45	21.18
		2535	22.18	21.28	20.95
		2502.5	22.33	21.35	21.08
10 MHz	1RB High (49)	2565	23.37	22.66	22.20
		2535	23.39	22.52	22.15
		2505	23.37	22.51	22.18
	1RB Middle (24)	2565	23.46	22.51	22.19
		2535	23.28	22.39	22.08
		2505	23.19	22.46	21.82
	1RB Low (0)	2565	23.41	22.65	21.90
		2535	23.31	22.55	22.13
		2505	23.27	22.63	22.10
	25RB High (25)	2565	22.41	21.52	21.12
		2535	22.38	21.33	21.02
		2505	22.33	21.31	20.99
	25RB Middle (12)	2565	22.53	21.52	21.19
		2535	22.25	21.32	21.01
		2505	22.33	21.28	21.12
	25RB Low (0)	2565	22.45	21.52	21.13
		2535	22.22	21.32	21.05
		2505	22.31	21.38	21.05
	50RB (0)	2565	22.40	21.45	21.13
		2535	22.13	21.35	21.00
		2505	22.23	21.32	21.02

15 MHz	1RB High (74)	2562.5	23.12	22.41	22.13
		2535	22.98	22.39	21.96
		2507.5	22.99	22.31	21.89
	1RB Middle (37)	2562.5	23.15	22.51	22.20
		2535	22.94	22.39	21.88
		2507.5	22.89	22.26	21.87
	1RB Low (0)	2562.5	23.13	22.42	22.14
		2535	22.97	22.37	21.93
		2507.5	22.88	22.28	21.93
	36RB High (38)	2562.5	22.31	21.27	21.01
		2535	22.14	21.17	20.91
		2507.5	22.10	21.12	20.77
	36RB Middle (19)	2562.5	22.32	21.27	21.05
		2535	22.07	21.03	20.87
		2507.5	22.16	21.32	20.89
	36RB Low (0)	2562.5	22.29	21.26	20.93
		2535	22.11	21.08	20.84
		2507.5	22.12	21.15	20.85
	75RB (0)	2562.5	22.28	21.27	21.10
		2535	22.04	21.10	20.84
		2507.5	22.15	21.20	20.91
20 MHz	1RB High (99)	2560	23.11	22.46	22.00
		2535	22.98	22.23	21.97
		2510	22.90	22.19	21.92
	1RB Middle (50)	2560	23.09	22.36	22.01
		2535	22.94	22.20	21.81
		2510	22.96	22.20	21.91
	1RB Low (0)	2560	23.06	22.29	21.98
		2535	22.93	22.39	21.93
		2510	23.01	22.24	21.80
	50RB High (50)	2560	22.26	21.28	20.93
		2535	22.04	21.14	20.82
		2510	22.11	21.12	20.84
	50RB Middle (25)	2560	22.15	21.34	20.98
		2535	22.03	21.15	20.80
		2510	22.18	21.22	20.84
	50RB Low (0)	2560	22.25	21.27	20.94
		2535	22.13	21.09	20.77
		2510	22.15	21.21	20.86
	100RB (0)	2560	22.26	21.29	21.04
		2535	22.10	21.01	20.77
		2510	22.20	21.15	20.89

Power Level B1/ C1

Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	20.88	21.10	20.84
		2535	20.81	21.07	20.89
		2502.5	20.77	21.03	20.96
	1RB Middle (12)	2567.5	20.88	21.13	20.92
		2535	20.62	20.96	21.00
		2502.5	20.73	20.85	20.84
	1RB Low (0)	2567.5	20.84	21.17	21.15
		2535	20.73	20.97	20.88
		2502.5	20.73	20.91	20.85
	12RB High (13)	2567.5	20.96	21.02	20.99
		2535	20.86	20.86	20.87
		2502.5	20.87	20.86	20.81
	12RB Middle (6)	2567.5	20.98	21.00	20.96
		2535	20.81	20.88	20.84
		2502.5	20.78	20.84	20.80
	12RB Low (0)	2567.5	20.91	20.89	20.87
		2535	20.72	20.73	20.73
		2502.5	20.74	20.71	20.70
	25RB (0)	2567.5	20.93	20.93	20.98
		2535	20.75	20.76	20.75
		2502.5	20.79	20.81	20.76
10 MHz	1RB High (49)	2565	20.78	21.13	21.12
		2535	20.70	21.08	21.05
		2505	20.66	20.99	21.02
	1RB Middle (24)	2565	21.08	21.16	20.98
		2535	20.90	20.96	20.89
		2505	20.66	21.02	20.78
	1RB Low (0)	2565	20.85	21.11	21.08
		2535	20.85	20.91	20.87
		2505	20.53	20.96	20.82
	25RB High (25)	2565	20.98	21.01	20.96
		2535	20.80	20.89	20.91
		2505	20.80	20.74	21.17
	25RB Middle (12)	2565	21.01	20.91	20.96
		2535	20.83	20.80	20.80
		2505	20.71	20.78	20.85
	25RB Low (0)	2565	20.95	21.00	20.91
		2535	20.65	20.77	20.73
		2505	20.82	20.75	20.86
	50RB (0)	2565	20.93	20.90	21.14
		2535	20.78	20.77	20.68
		2505	20.75	20.82	20.80

15 MHz	1RB High (74)	2562.5	20.74	21.03	20.99
		2535	20.48	20.85	20.72
		2507.5	20.37	20.77	20.76
	1RB Middle (37)	2562.5	20.66	20.97	20.84
		2535	20.50	20.74	20.73
		2507.5	20.54	20.68	20.60
	1RB Low (0)	2562.5	20.68	20.86	20.84
		2535	20.57	20.74	20.73
		2507.5	20.38	20.81	20.68
	36RB High (38)	2562.5	20.86	20.76	20.82
		2535	20.60	20.61	20.65
		2507.5	20.58	20.55	20.59
	36RB Middle (19)	2562.5	20.79	20.85	20.75
		2535	20.61	20.57	20.64
		2507.5	20.56	20.60	20.67
	36RB Low (0)	2562.5	20.75	20.82	20.82
		2535	20.58	20.55	20.65
		2507.5	20.69	20.56	20.56
	75RB (0)	2562.5	20.79	20.81	20.83
		2535	20.60	20.61	20.69
		2507.5	20.66	20.67	20.98
20 MHz	1RB High (99)	2560	20.72	21.10	20.88
		2535	20.52	20.85	20.67
		2510	20.46	20.77	20.52
	1RB Middle (50)	2560	20.66	21.00	20.87
		2535	20.53	20.85	20.53
		2510	20.41	20.82	20.70
	1RB Low (0)	2560	20.65	20.94	20.87
		2535	20.44	20.79	20.69
		2510	20.42	20.80	20.75
	50RB High (50)	2560	20.79	20.83	20.72
		2535	20.67	20.66	20.57
		2510	20.62	20.94	20.64
	50RB Middle (25)	2560	20.84	20.83	20.80
		2535	20.71	20.61	20.66
		2510	20.61	20.66	20.62
	50RB Low (0)	2560	20.77	20.84	20.79
		2535	20.66	20.66	20.63
		2510	20.59	20.59	20.56
	100RB (0)	2560	20.85	20.88	20.81
		2535	20.63	20.57	20.67
		2510	20.63	20.70	20.62

Power Level A1/B1/ C1/D1

Band 12					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	715.3	23.16	22.59	22.12
		707.5	23.29	22.59	22.21
		699.7	23.25	22.58	22.38
	1RB Middle (3)	715.3	23.26	22.61	22.20
		707.5	23.33	22.67	22.43
		699.7	23.36	22.73	22.32
	1RB Low (0)	715.3	23.30	22.59	22.32
		707.5	23.31	22.54	22.32
		699.7	23.36	22.76	22.35
	3RB High (3)	715.3	23.19	22.32	22.19
		707.5	23.34	22.34	22.23
		699.7	23.32	22.35	22.16
	3RB Middle (1)	715.3	23.30	22.32	22.22
		707.5	23.31	22.36	22.26
		699.7	23.43	22.53	22.27
	3RB Low (0)	715.3	23.28	22.42	22.17
		707.5	23.29	22.30	22.19
		699.7	23.37	22.46	22.26
	6RB (0)	715.3	22.31	21.44	21.16
		707.5	22.28	21.40	21.20
		699.7	22.38	21.45	21.26
3 MHz	1RB High (14)	714.5	23.30	22.70	22.39
		707.5	23.35	22.61	22.30
		700.5	23.37	22.64	22.25
	1RB Middle (7)	714.5	23.24	22.58	22.40
		707.5	23.36	22.70	22.32
		700.5	24.06	22.63	22.37
	1RB Low (0)	714.5	23.29	22.57	22.35
		707.5	23.35	22.66	22.28
		700.5	23.42	22.80	22.35
	8RB High (7)	714.5	22.34	21.37	21.25
		707.5	22.41	21.56	21.30
		700.5	22.46	21.45	21.30
	8RB Middle (4)	714.5	22.43	21.42	21.28
		707.5	22.44	21.47	21.34
		700.5	22.46	21.62	21.25
	8RB Low (0)	714.5	22.42	21.39	21.21
		707.5	22.41	21.50	21.32
		700.5	22.53	21.59	21.32
	15RB (0)	714.5	22.35	21.37	21.20
		707.5	22.40	21.38	21.21
		700.5	22.45	21.48	21.34
5 MHz	1RB	713.5	23.28	22.68	22.48

	High (24)	707.5	23.38	22.77	22.40
		701.5	23.38	22.66	22.25
	1RB Middle (12)	713.5	23.27	22.61	22.43
		707.5	23.37	22.60	22.30
		701.5	23.73	22.70	22.42
	1RB Low (0)	713.5	23.36	22.65	22.47
		707.5	23.36	22.57	22.39
		701.5	23.32	22.78	22.45
	12RB High (13)	713.5	22.35	21.44	21.15
		707.5	22.40	21.48	21.29
		701.5	22.40	21.40	21.27
	12RB Middle (6)	713.5	22.35	21.39	21.19
		707.5	22.44	21.43	21.30
		701.5	22.49	21.52	21.30
	12RB Low (0)	713.5	22.43	21.48	21.17
		707.5	22.42	21.45	21.30
		701.5	22.51	21.60	21.40
	25RB (0)	713.5	22.33	21.41	21.18
		707.5	22.48	21.42	21.20
		701.5	22.45	21.45	20.31
10 MHz	1RB High (49)	711	23.28	22.57	22.23
		707.5	23.28	22.45	22.11
		704	23.33	22.66	22.31
	1RB Middle (24)	711	23.38	22.45	22.38
		707.5	23.64	22.72	22.30
		704	23.59	22.59	22.28
	1RB Low (0)	711	23.46	22.90	22.40
		707.5	23.61	22.94	22.41
		704	23.67	22.80	22.29
	25RB High (25)	711	22.36	21.43	21.20
		707.5	22.39	21.45	21.12
		704	22.44	21.50	21.26
	25RB Middle (12)	711	22.43	21.49	21.28
		707.5	22.40	21.37	21.18
		704	22.48	21.54	21.34
	25RB Low (0)	711	22.32	21.51	21.22
		707.5	22.40	21.47	21.29
		704	22.49	21.40	21.24
	50RB (0)	711	22.45	21.48	21.28
		707.5	22.39	21.42	21.22
		704	22.49	21.45	21.34

Power Level A1/B1/ C1/D1

Band 26					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	23.55	22.93	22.71
		831.5	23.68	23.10	22.83
		814.7	23.80	23.11	22.97
	1RB Middle (3)	848.3	23.62	22.96	22.88
		831.5	23.79	23.17	22.96
		814.7	23.84	23.14	23.00
	1RB Low (0)	848.3	23.52	22.93	22.76
		831.5	23.69	22.96	22.84
		814.7	23.78	23.08	22.93
	3RB High (3)	848.3	23.52	22.60	22.71
		831.5	23.72	22.79	22.80
		814.7	23.79	22.93	22.93
	3RB Middle (1)	848.3	23.61	22.61	22.73
		831.5	23.72	22.74	22.85
		814.7	23.85	22.95	22.96
	3RB Low (0)	848.3	23.59	22.66	22.68
		831.5	23.70	22.74	22.79
		814.7	23.82	22.89	22.94
	6RB (0)	848.3	22.63	21.77	21.67
		831.5	22.77	21.78	21.75
		814.7	22.90	21.99	21.93
3 MHz	1RB High (14)	847.5	23.69	23.01	22.96
		831.5	23.80	23.16	22.91
		815.5	23.64	23.07	21.82
	1RB Middle (7)	847.5	23.62	22.90	22.74
		831.5	23.73	23.03	22.98
		815.5	23.65	23.03	21.94
	1RB Low (0)	847.5	23.62	22.96	22.94
		831.5	23.74	23.05	22.89
		815.5	23.66	23.09	21.98
	8RB High (7)	847.5	22.69	21.77	21.72
		831.5	22.86	21.92	21.89
		815.5	22.72	21.80	20.77
	8RB Middle (4)	847.5	22.72	21.79	21.79
		831.5	22.79	21.88	21.87
		815.5	22.77	21.85	20.78
	8RB Low (0)	847.5	22.69	21.79	21.73
		831.5	22.76	21.90	21.79
		815.5	22.71	21.78	20.80
	15RB (0)	847.5	22.76	21.76	21.77
		831.5	22.83	21.87	21.78

5 MHz	1RB High (24)	815.5	22.71	21.75	20.77
		846.5	23.64	22.91	22.99
		831.5	23.77	23.17	22.83
		816.5	23.78	23.12	22.77
	1RB Middle (12)	846.5	23.72	23.02	22.80
		831.5	23.75	23.04	22.81
		816.5	23.84	23.08	22.92
	1RB Low (0)	846.5	23.64	23.09	22.95
		831.5	23.77	23.11	22.95
		816.5	23.96	23.20	22.84
	12RB High (13)	846.5	22.67	21.73	21.74
		831.5	22.85	21.83	21.79
		816.5	22.88	21.91	21.88
	12RB Middle (6)	846.5	22.79	21.74	21.72
		831.5	22.85	21.81	21.85
		816.5	22.94	22.01	21.94
	12RB Low (0)	846.5	22.75	21.76	21.78
		831.5	22.87	21.87	21.78
		816.5	22.93	21.94	21.91
	25RB (0)	846.5	22.76	21.80	21.77
		831.5	22.82	21.84	21.85
		816.5	22.96	21.96	21.92
10 MHz	1RB High (49)	844	23.68	22.88	22.93
		831.5	23.52	23.11	22.96
		820	23.54	22.95	22.79
	1RB Middle (24)	844	23.70	23.03	22.83
		831.5	23.74	23.21	23.00
		820	24.03	23.06	22.81
	1RB Low (0)	844	23.69	23.09	22.93
		831.5	23.78	23.27	22.87
		820	23.99	23.15	22.78
	25RB High (25)	844	22.79	21.74	21.77
		831.5	22.86	21.90	21.81
		820	22.86	22.04	21.92
	25RB Middle (12)	844	22.78	21.76	21.71
		831.5	22.85	21.83	21.80
		820	22.91	21.93	21.98
	25RB Low (0)	844	22.81	21.80	21.80
		831.5	22.86	21.94	21.82
		820	22.86	21.94	21.75
	50RB (0)	844	22.70	21.83	21.80
		831.5	22.80	21.78	21.86
		820	22.93	21.98	21.88
15 MHz	1RB High (74)	841.5	23.40	22.77	22.54
		831.5	23.50	22.87	22.61
		822.5	23.52	22.78	22.75
	1RB Middle	1907.5	23.42	22.84	22.68
		1882.5	23.53	22.96	22.85

	(37)	1857.5	23.54	22.78	22.70
	1RB Low (0)	1907.5	23.58	22.88	22.71
		1882.5	23.55	22.79	22.73
		1857.5	23.61	23.03	22.82
	36RB High (38)	1907.5	22.63	21.67	21.70
		1882.5	22.70	21.72	21.68
		1857.5	22.79	21.72	21.67
	36RB Middle (19)	1907.5	22.68	21.65	21.66
		1882.5	22.66	21.61	21.60
		1857.5	22.74	21.69	21.80
	36RB Low (0)	1907.5	22.62	21.53	21.64
		1882.5	22.65	21.69	21.73
		1857.5	22.72	21.76	21.67
	75RB (0)	1907.5	22.61	21.71	21.62
		1882.5	22.66	21.69	21.61
		1857.5	22.73	21.77	21.73

Power Level A1/B1/ D1

Band 41					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2687.5	23.62	22.73	22.41
		2640.3	23.63	22.74	22.41
		2593	23.73	22.86	22.50
		2545.8	23.61	22.71	22.43
		2498.5	23.56	22.70	22.38
	1RB Middle (12)	2687.5	23.64	22.59	22.30
		2640.3	23.57	22.67	22.29
		2593	23.63	22.68	22.34
		2545.8	23.56	22.58	22.26
		2498.5	23.56	22.60	22.27
	1RB Low (0)	2687.5	23.58	22.63	22.30
		2640.3	23.56	22.69	22.39
		2593	23.67	22.81	22.42
		2545.8	23.55	22.66	22.36
		2498.5	23.61	22.71	22.36
	12RB High (13)	2687.5	22.62	21.62	21.24
		2640.3	22.60	21.64	21.20
		2593	22.62	21.69	21.29
		2545.8	22.59	21.58	21.21
		2498.5	22.55	21.58	21.21
	12RB Middle (6)	2687.5	22.57	21.62	21.25
		2640.3	22.61	21.65	21.28
		2593	22.71	21.74	21.36
		2545.8	22.61	21.59	21.21
		2498.5	22.59	21.63	21.25
	12RB Low (0)	2687.5	22.57	21.57	21.17
		2640.3	22.64	21.65	21.26
		2593	22.67	21.72	21.31
		2545.8	22.58	21.59	21.21
		2498.5	22.57	21.60	21.20
	25RB (0)	2687.5	22.53	21.59	21.17
		2640.3	22.62	21.64	21.20
		2593	22.63	21.69	21.26
		2545.8	22.56	21.60	21.18
		2498.5	22.60	21.59	21.13

10 MHz	1RB High (49)	2685	23.50	22.73	22.25
		2639	23.48	22.77	22.28
		2593	23.56	22.80	22.32
		2547	23.48	22.78	22.27
		2501	23.44	22.74	22.26
	1RB Middle (24)	2685	23.55	22.76	22.28
		2639	23.53	22.72	22.33
		2593	23.58	22.80	22.38
		2547	23.50	22.73	22.30
		2501	23.51	22.72	22.29
	1RB Low (0)	2685	23.50	22.82	22.38
		2639	23.59	22.83	22.43
		2593	23.66	22.91	22.48
		2547	23.42	22.76	22.28
		2501	23.53	22.76	22.32
	25RB High (25)	2685	22.62	21.68	21.19
		2639	22.61	21.64	21.23
		2593	22.66	21.70	21.30
		2547	22.57	21.64	21.19
		2501	22.56	21.60	21.17
	25RB Middle (12)	2685	22.69	21.70	21.24
		2639	22.62	21.68	21.27
		2593	22.69	21.78	21.31
		2547	22.58	21.64	21.17
		2501	22.56	21.65	21.18
	25RB Low (0)	2685	22.51	21.59	21.15
		2639	22.60	21.69	21.24
		2593	22.67	21.70	21.27
		2547	22.58	21.61	21.16
		2501	22.53	21.61	21.17
	50RB (0)	2685	22.65	21.75	21.26
		2639	22.63	21.71	21.22
		2593	22.66	21.77	21.31
		2547	22.59	21.67	21.20
		2501	22.59	21.65	21.19
15 MHz	1RB High (74)	2682.5	23.27	22.73	22.27
		2637.8	23.33	22.72	22.30
		2593	23.36	22.80	22.30
		2548.3	23.29	22.70	22.31
		2503.5	23.20	22.59	22.21
	1RB	2682.5	23.28	22.74	22.25

	Middle (37)	2637.8	23.23	22.67	22.25
		2593	23.33	22.74	22.31
		2548.3	23.22	22.62	22.22
		2503.5	23.11	22.54	22.28
	1RB Low (0)	2682.5	23.37	22.82	22.39
		2637.8	23.37	22.81	22.41
		2593	23.43	22.90	22.41
		2548.3	23.31	22.72	22.13
		2503.5	23.19	22.63	22.27
	36RB High (38)	2682.5	22.49	21.52	21.10
		2637.8	22.47	21.49	21.14
		2593	22.49	21.54	21.16
		2548.3	22.42	21.50	21.08
		2503.5	22.38	21.43	21.02
	36RB Middle (19)	2682.5	22.38	21.47	21.03
		2637.8	22.49	21.55	21.11
		2593	22.55	21.56	21.18
		2548.3	22.46	21.45	21.06
		2503.5	22.45	21.42	20.99
	36RB Low (0)	2682.5	22.45	21.50	21.11
		2637.8	22.52	21.57	21.18
		2593	22.57	21.59	21.21
		2548.3	22.47	21.47	21.07
		2503.5	22.33	21.38	20.95
	75RB (0)	2682.5	22.39	21.48	21.05
		2637.8	22.48	21.57	21.16
		2593	22.54	21.62	21.19
		2548.3	22.42	21.48	21.06
		2503.5	22.40	21.48	21.07
20 MHz	1RB High (99)	2680	23.23	22.65	22.21
		2636.5	23.30	22.64	22.30
		2593	23.25	22.68	22.26
		2549.5	23.16	22.59	22.19
		2506	23.10	22.54	22.12
	1RB Middle (50)	2680	23.20	22.59	22.14
		2636.5	23.17	22.62	22.14
		2593	23.20	22.63	22.21
		2549.5	23.11	22.53	22.14
		2506	23.11	22.51	22.12
	1RB Low (0)	2680	23.34	22.75	22.33
		2636.5	23.35	22.80	22.37
		2593	23.42	22.82	22.40

		2549.5	23.12	22.54	22.17
		2506	23.11	22.56	22.21
	50RB High (50)	2680	22.38	21.44	21.02
		2636.5	22.38	21.49	21.02
		2593	22.44	21.49	21.03
		2549.5	22.40	21.45	21.01
		2506	22.34	21.41	20.93
	50RB Middle (25)	2680	22.42	21.51	21.03
		2636.5	22.43	21.49	21.06
		2593	22.52	21.56	21.08
		2549.5	22.41	21.47	21.00
		2506	22.41	21.43	20.95
	50RB Low (0)	2680	22.38	21.49	20.96
		2636.5	22.49	21.53	21.07
		2593	22.54	21.58	21.10
		2549.5	22.40	21.44	20.98
		2506	22.39	21.41	20.96
	100RB (0)	2680	22.47	21.51	21.11
		2636.5	22.42	21.50	21.10
		2593	22.53	21.54	21.17
		2549.5	22.38	21.48	21.08
		2506	22.36	21.42	21.07

Power Level C1

Band 41					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2687.5	23.50	22.46	22.35
		2640.3	23.46	22.50	22.26
		2593	23.53	22.45	22.31
		2545.8	23.50	22.44	22.29
		2498.5	23.49	22.48	22.31
	1RB Middle (12)	2687.5	23.47	22.40	22.28
		2640.3	23.38	22.41	22.26
		2593	23.45	22.41	22.33
		2545.8	23.38	22.42	22.28
		2498.5	23.44	22.49	22.34
	1RB Low (0)	2687.5	23.47	22.47	22.23
		2640.3	23.41	22.42	22.20
		2593	23.49	22.46	22.30
		2545.8	23.37	22.39	22.23
		2498.5	23.56	22.54	22.34
	12RB High (13)	2687.5	22.38	21.35	21.43
		2640.3	22.33	21.31	21.38
		2593	22.41	21.36	21.45
		2545.8	22.36	21.30	21.35
		2498.5	22.44	21.43	21.43
	12RB Middle (6)	2687.5	22.42	21.38	21.46
		2640.3	22.38	21.33	21.40
		2593	22.48	21.44	21.48
		2545.8	22.39	21.38	21.41
		2498.5	22.47	21.42	21.46
	12RB Low (0)	2687.5	22.39	21.42	21.48
		2640.3	22.31	21.32	21.37
		2593	22.39	21.39	21.50
		2545.8	22.34	21.31	21.38
		2498.5	22.45	21.41	21.48
	25RB (0)	2687.5	22.43	21.43	21.39
		2640.3	22.36	21.36	21.34
		2593	22.46	21.43	21.36
		2545.8	22.38	21.42	21.36
		2498.5	22.44	21.44	21.42

10 MHz	1RB High (49)	2685	23.26	22.43	22.12
		2639	23.19	22.36	21.23
		2593	23.24	22.46	21.27
		2547	23.19	22.37	21.42
		2501	23.21	22.43	21.35
	1RB Middle (24)	2685	23.30	22.48	22.16
		2639	23.18	22.40	21.36
		2593	23.25	22.47	21.39
		2547	23.25	22.39	21.41
		2501	23.23	22.41	21.35
	1RB Low (0)	2685	23.27	22.53	22.20
		2639	23.28	22.43	21.49
		2593	23.40	22.58	21.53
		2547	23.25	22.45	21.43
		2501	23.28	22.52	21.45
	25RB High (25)	2685	22.43	21.41	21.42
		2639	22.34	21.37	20.47
		2593	22.43	21.40	20.53
		2547	22.40	21.43	20.50
		2501	22.40	21.47	20.47
	25RB Middle (12)	2685	22.36	21.38	21.38
		2639	22.35	21.42	20.49
		2593	22.45	21.51	20.56
		2547	22.38	21.39	20.52
		2501	22.41	21.50	20.51
	25RB Low (0)	2685	22.33	21.30	21.32
		2639	22.33	21.35	20.48
		2593	22.41	21.48	20.55
		2547	22.38	21.42	20.45
		2501	22.37	21.46	20.52
	50RB (0)	2685	22.35	21.42	21.38
		2639	22.38	21.46	20.43
		2593	22.45	21.52	20.53
		2547	22.39	21.45	20.48
		2501	22.40	21.50	20.47
15 MHz	1RB High (74)	2682.5	23.12	22.45	22.18
		2637.8	23.07	22.32	22.17
		2593	23.11	22.42	22.21
		2548.3	23.29	22.41	22.28
		2503.5	23.16	22.30	22.13
	1RB	2682.5	23.07	22.38	22.12

	Middle (37)	2637.8	23.02	22.28	22.12
		2593	23.07	22.42	22.16
		2548.3	23.04	22.34	22.16
		2503.5	23.03	22.29	22.19
	1RB Low (0)	2682.5	23.16	22.45	22.29
		2637.8	23.16	22.44	22.31
		2593	23.26	22.55	22.40
		2548.3	23.15	22.40	22.24
		2503.5	23.12	22.38	22.22
	36RB High (38)	2682.5	22.30	21.32	21.28
		2637.8	22.24	21.28	21.26
		2593	22.32	21.32	21.31
		2548.3	22.28	21.28	21.32
		2503.5	22.25	21.27	21.25
	36RB Middle (19)	2682.5	22.29	21.31	21.31
		2637.8	22.27	21.24	21.20
		2593	22.32	21.35	21.33
		2548.3	22.20	21.22	21.20
		2503.5	22.28	21.32	21.26
	36RB Low (0)	2682.5	22.26	21.22	21.26
		2637.8	22.28	21.29	21.28
		2593	22.35	21.39	21.38
		2548.3	22.24	21.21	21.23
		2503.5	22.30	21.31	21.22
	75RB (0)	2682.5	22.32	21.34	21.35
		2637.8	22.24	21.32	21.29
		2593	22.31	21.39	21.36
		2548.3	22.18	21.24	21.25
		2503.5	22.28	21.33	21.31
20 MHz	1RB High (99)	2680	23.04	22.41	22.19
		2636.5	23.14	22.34	22.19
		2593	23.12	22.43	22.20
		2549.5	23.04	22.35	22.21
		2506	23.04	22.35	22.14
	1RB Middle (50)	2680	23.04	22.41	22.15
		2636.5	22.98	22.29	22.18
		2593	23.04	22.35	22.18
		2549.5	23.04	22.32	22.21
		2506	23.04	22.35	22.16
	1RB Low (0)	2680	23.22	22.49	22.31
		2636.5	23.19	22.51	22.31
		2593	23.27	22.58	22.41

		2549.5	23.05	22.35	22.15
		2506	23.08	22.39	22.23
	50RB High (50)	2680	22.30	21.34	21.28
		2636.5	22.24	21.30	21.24
		2593	22.31	21.34	21.31
		2549.5	22.27	21.34	21.26
		2506	22.23	21.29	21.28
	50RB Middle (25)	2680	22.23	21.27	21.21
		2636.5	22.29	21.29	21.23
		2593	22.34	21.41	21.33
		2549.5	22.21	21.26	21.17
		2506	22.30	21.34	21.30
	50RB Low (0)	2680	22.29	21.32	21.28
		2636.5	22.29	21.35	21.31
		2593	22.38	21.42	21.37
		2549.5	22.22	21.21	21.18
		2506	22.29	21.38	21.30
	100RB (0)	2680	22.21	21.29	21.32
		2636.5	22.25	21.34	21.36
		2593	22.35	21.41	21.45
		2549.5	22.22	21.28	21.29
		2506	22.29	21.32	21.36

Power Level A1/B1/D1

Band 66					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1779.3	23.25	22.64	22.31
		1745	23.32	22.58	22.31
		1710.7	23.35	22.65	22.49
	1RB Middle (3)	1779.3	23.38	22.83	22.41
		1745	23.38	22.66	22.39
		1710.7	23.42	22.85	22.50
	1RB Low (0)	1779.3	23.25	22.67	22.31
		1745	23.36	22.64	22.38
		1710.7	23.41	22.78	22.41
	3RB High (3)	1779.3	23.37	22.37	22.25
		1745	23.35	22.40	22.20
		1710.7	23.43	22.50	22.28
	3RB Middle (1)	1779.3	23.38	22.51	22.30
		1745	23.40	22.47	22.26
		1710.7	23.53	22.49	22.38
	3RB Low (0)	1779.3	23.35	22.40	22.29
		1745	23.36	22.40	22.21
		1710.7	23.43	22.52	22.25
	6RB (0)	1779.3	22.36	21.40	21.16
		1745	22.38	21.53	21.19
		1710.7	22.49	21.52	21.31
3 MHz	1RB High (14)	1778.5	23.37	22.74	22.43
		1745	23.44	22.72	22.37
		1711.5	23.45	22.77	22.41
	1RB Middle (7)	1778.5	23.84	22.71	22.33
		1745	23.50	22.71	22.31
		1711.5	23.41	22.76	22.46
	1RB Low (0)	1778.5	23.40	22.72	22.41
		1745	23.44	22.74	22.44
		1711.5	23.51	22.82	22.42
	8RB High (7)	1778.5	22.46	21.50	21.25
		1745	22.43	21.51	21.30
		1711.5	22.53	21.55	21.42
	8RB Middle (4)	1778.5	22.51	21.58	21.31
		1745	22.53	21.61	21.31
		1711.5	22.59	21.68	21.39
	8RB Low (0)	1778.5	22.46	21.50	21.25
		1745	22.44	21.49	21.35
		1711.5	22.56	21.59	21.40
	15RB	1778.5	22.50	21.58	21.30

	(0)	1745	22.47	21.50	21.23
		1711.5	22.56	21.53	21.36
5 MHz	1RB High (24)	1777.5	23.44	22.81	22.46
		1745	23.45	22.81	22.44
		1712.5	23.48	22.82	22.40
	1RB Middle (12)	1777.5	23.60	22.78	22.35
		1745	23.56	22.69	22.46
		1712.5	23.46	22.74	22.45
	1RB Low (0)	1777.5	23.46	22.80	22.41
		1745	23.50	22.80	22.41
		1712.5	23.54	22.84	22.46
	12RB High (13)	1777.5	22.46	21.45	21.33
		1745	22.54	21.49	21.24
		1712.5	22.57	21.60	21.36
	12RB Middle (6)	1777.5	22.48	21.54	21.26
		1745	22.48	21.52	21.27
		1712.5	22.58	21.64	21.42
	12RB Low (0)	1777.5	22.48	21.49	21.30
		1745	22.49	21.53	21.28
		1712.5	22.55	21.54	21.34
	25RB (0)	1777.5	22.46	21.52	21.29
		1745	22.55	21.55	21.26
		1712.5	22.58	21.57	21.32
10 MHz	1RB High (49)	1775	23.44	22.75	22.47
		1745	23.27	22.76	22.25
		1715	23.33	22.73	22.26
	1RB Middle (24)	1775	23.35	22.68	22.32
		1745	23.48	22.66	22.36
		1715	23.41	22.71	22.39
	1RB Low (0)	1775	23.32	22.71	22.45
		1745	23.59	22.77	22.47
		1715	23.54	22.82	22.46
	25RB High (25)	1775	22.51	21.57	21.34
		1745	22.48	21.52	21.30
		1715	22.53	21.53	21.28
	25RB Middle (12)	1775	22.51	21.52	21.20
		1745	22.51	21.55	21.29
		1715	22.57	21.67	21.32
	25RB Low (0)	1775	22.51	21.44	21.21
		1745	22.48	21.59	21.29
		1715	22.57	21.61	21.38
	50RB (0)	1775	22.39	21.47	21.23
		1745	22.51	21.54	21.26
		1715	22.57	21.62	21.38
15 MHz	1RB High (74)	1772.5	23.33	22.71	22.15
		1745	23.24	22.50	22.14
		1717.5	23.32	22.57	22.04
	1RB	1772.5	23.34	22.62	22.29

	Middle (37)	1745	23.29	22.60	22.25
		1717.5	23.41	22.72	22.27
	1RB Low (0)	1772.5	23.29	22.72	22.32
		1745	23.37	22.62	22.22
		1717.5	23.32	22.75	22.22
	36RB High (38)	1772.5	22.36	21.43	21.17
		1745	22.40	21.39	21.14
		1717.5	22.46	21.50	21.22
	36RB Middle (19)	1772.5	22.38	21.44	21.27
		1745	22.39	21.36	21.13
		1717.5	22.43	21.47	21.24
	36RB Low (0)	1772.5	22.32	21.28	21.12
		1745	22.24	21.23	21.09
		1717.5	22.38	21.44	21.24
	75RB (0)	1772.5	22.35	21.36	21.10
		1745	22.35	21.38	21.16
		1717.5	22.42	21.41	21.23
20 MHz	1RB High (99)	1770	23.25	22.66	22.19
		1745	23.11	22.46	22.20
		1720	23.16	22.53	22.08
	1RB Middle (50)	1770	23.18	22.58	22.28
		1745	23.23	22.52	22.15
		1720	23.22	22.49	22.10
	1RB Low (0)	1770	23.27	22.60	22.26
		1745	23.17	22.67	22.13
		1720	23.16	22.61	22.24
	50RB High (50)	1770	22.28	21.37	21.09
		1745	22.34	21.34	21.15
		1720	22.32	21.35	21.20
	50RB Middle (25)	1770	22.31	21.34	21.13
		1745	22.33	21.44	21.11
		1720	22.39	21.42	21.17
	50RB Low (0)	1770	22.25	21.32	21.03
		1745	22.30	21.20	21.04
		1720	22.36	21.38	21.15
	100RB (0)	1770	22.35	21.38	21.12
		1745	22.34	21.30	21.09
		1720	22.36	21.36	21.14

Power Level C1

Band 66					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1779.3	20.23	20.63	20.49
		1745	20.44	20.77	20.55
		1710.7	20.41	20.84	20.49
	1RB Middle (3)	1779.3	20.36	20.72	20.56
		1745	20.41	20.84	20.66
		1710.7	20.51	20.79	20.61
	1RB Low (0)	1779.3	20.24	20.62	20.45
		1745	20.39	20.78	20.61
		1710.7	20.42	20.74	20.62
	3RB High (3)	1779.3	20.3	20.4	20.42
		1745	20.37	20.43	20.49
		1710.7	20.52	20.55	20.57
	3RB Middle (1)	1779.3	20.35	20.47	20.48
		1745	20.43	20.55	20.54
		1710.7	20.47	20.65	20.68
	3RB Low (0)	1779.3	20.27	20.47	20.5
		1745	20.4	20.51	20.53
		1710.7	20.47	20.54	20.58
	6RB (0)	1779.3	20.34	20.52	20.42
		1745	20.4	20.52	20.46
		1710.7	20.52	20.66	20.54
3 MHz	1RB High (14)	1778.5	20.35	20.74	20.63
		1745	20.39	20.78	20.65
		1711.5	20.51	20.76	20.71
	1RB Middle (7)	1778.5	20.28	20.7	20.6
		1745	20.58	20.77	20.6
		1711.5	20.48	20.87	20.8
	1RB Low (0)	1778.5	20.38	20.69	20.6
		1745	20.51	20.68	20.57
		1711.5	20.5	20.87	20.7
	8RB High (7)	1778.5	20.42	20.5	20.44
		1745	20.48	20.65	20.51
		1711.5	20.59	20.69	20.59
	8RB Middle (4)	1778.5	20.47	20.61	20.47
		1745	20.56	20.61	20.63
		1711.5	20.62	20.7	20.72
	8RB Low (0)	1778.5	20.46	20.51	20.5
		1745	20.56	20.64	20.49
		1711.5	20.63	20.65	20.63
	15RB	1778.5	20.41	20.48	20.52

	(0)	1745	20.51	20.63	20.51
		1711.5	20.58	20.6	20.64
5 MHz	1RB High (24)	1777.5	20.43	20.78	20.61
		1745	20.47	20.91	20.87
		1712.5	20.5	20.94	20.73
	1RB Middle (12)	1777.5	20.4	20.73	20.68
		1745	20.62	20.73	20.66
		1712.5	20.54	20.89	20.74
	1RB Low (0)	1777.5	20.42	20.78	20.69
		1745	20.51	20.87	20.83
		1712.5	20.57	20.86	20.86
	12RB High (13)	1777.5	20.46	20.52	20.43
		1745	20.58	20.57	20.57
		1712.5	20.63	20.64	20.58
	12RB Middle (6)	1777.5	20.5	20.55	20.49
		1745	20.64	20.61	20.58
		1712.5	20.63	20.66	20.62
	12RB Low (0)	1777.5	20.48	20.48	20.45
		1745	20.55	20.62	20.53
		1712.5	20.57	20.65	20.54
	25RB (0)	1777.5	20.45	20.49	20.46
		1745	20.62	20.62	20.57
		1712.5	20.69	20.66	20.62
10 MHz	1RB High (49)	1775	20.4	20.71	20.68
		1745	20.3	20.74	20.74
		1715	20.55	20.78	20.69
	1RB Middle (24)	1775	20.39	20.57	20.58
		1745	20.57	20.79	20.66
		1715	20.53	20.9	20.65
	1RB Low (0)	1775	20.41	20.8	20.59
		1745	20.51	20.77	20.73
		1715	20.64	20.75	20.82
	25RB High (25)	1775	20.54	20.51	20.52
		1745	20.58	20.66	20.62
		1715	20.62	20.61	20.5
	25RB Middle (12)	1775	20.46	20.51	20.49
		1745	20.61	20.65	20.53
		1715	20.65	20.68	20.61
	25RB Low (0)	1775	20.43	20.46	20.44
		1745	20.5	20.61	20.51
		1715	20.63	20.69	20.63
	50RB (0)	1775	20.41	20.38	20.51
		1745	20.53	20.61	20.55
		1715	20.58	20.7	20.59
15 MHz	1RB High (74)	1772.5	20.3	20.65	20.5
		1745	20.35	20.56	20.49
		1717.5	20.27	20.54	20.46
	1RB	1772.5	20.38	20.49	20.43

	Middle (37)	1745	20.37	20.6	20.57
		1717.5	20.42	20.62	20.59
	1RB Low (0)	1772.5	20.32	20.57	20.44
		1745	20.28	20.7	20.51
		1717.5	20.35	20.58	20.53
	36RB High (38)	1772.5	20.41	20.34	20.37
		1745	20.49	20.39	20.48
		1717.5	20.48	20.48	20.44
	36RB Middle (19)	1772.5	20.41	20.35	20.49
		1745	20.47	20.45	20.55
		1717.5	20.46	20.54	20.47
	36RB Low (0)	1772.5	20.35	20.25	20.39
		1745	20.43	20.38	20.4
		1717.5	20.51	20.42	20.52
	75RB (0)	1772.5	20.41	20.38	20.41
		1745	20.43	20.5	20.49
		1717.5	20.41	20.47	20.56
20 MHz	1RB High (99)	1770	20.35	20.56	20.49
		1745	20.44	20.52	20.54
		1720	20.42	20.8	20.54
	1RB Middle (50)	1770	20.34	20.61	20.63
		1745	20.38	20.57	20.63
		1720	20.41	20.65	20.58
	1RB Low (0)	1770	20.47	20.68	20.54
		1745	20.46	20.58	20.59
		1720	20.34	20.76	20.48
	50RB High (50)	1770	20.45	20.4	20.06
		1745	20.47	20.48	20
		1720	20.5	20.52	20.35
	50RB Middle (25)	1770	20.38	20.37	20.04
		1745	20.44	20.52	20.13
		1720	20.49	20.53	20.03
	50RB Low (0)	1770	20.33	20.37	20.11
		1745	20.42	20.4	20.09
		1720	20.53	20.49	20.14
	100RB (0)	1770	20.3	20.33	20.06
		1745	20.45	20.46	20.08
		1720	20.42	20.44	20.02

Power Level A2

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	15.31	15.58	15.69
		1880	15.22	15.69	15.49
		1850.7	15.35	15.65	15.48
	1RB Middle (3)	1909.3	15.35	15.64	15.74
		1880	15.37	15.69	15.60
		1850.7	15.37	15.73	15.67
	1RB Low (0)	1909.3	15.41	15.63	15.66
		1880	15.41	15.73	15.58
		1850.7	15.38	15.80	15.71
	3RB High (3)	1909.3	15.41	15.49	15.47
		1880	15.35	15.51	15.44
		1850.7	15.34	15.43	15.57
	3RB Middle (1)	1909.3	15.44	15.45	15.55
		1880	15.46	15.49	15.52
		1850.7	15.45	15.56	15.63
	3RB Low (0)	1909.3	15.40	15.55	15.50
		1880	15.42	15.55	15.53
		1850.7	15.50	15.58	15.59
	6RB (0)	1909.3	15.47	15.53	15.45
		1880	15.50	15.57	15.48
		1850.7	15.49	15.57	15.44
3 MHz	1RB High (14)	1908.5	15.36	15.64	15.60
		1880	15.34	15.76	15.60
		1851.5	15.37	15.70	15.73
	1RB Middle (7)	1908.5	15.53	15.72	15.59
		1880	15.37	15.65	15.66
		1851.5	15.38	15.74	15.84
	1RB Low (0)	1908.5	15.50	15.82	15.57
		1880	15.47	15.74	15.72
		1851.5	15.50	15.84	15.85
	8RB High (7)	1908.5	15.46	15.51	15.51
		1880	15.48	15.57	15.54
		1851.5	15.41	15.58	15.57
	8RB Middle (4)	1908.5	15.50	15.59	15.54
		1880	15.59	15.64	15.62
		1851.5	15.52	15.61	15.60
	8RB Low (0)	1908.5	15.59	15.69	15.53
		1880	15.54	15.59	15.57
		1851.5	15.56	15.70	15.66
	15RB (0)	1908.5	15.49	15.54	15.50
		1880	15.47	15.44	15.45
		1851.5	15.50	15.60	15.51

5 MHz	1RB High (24)	1907.5	15.44	15.81	15.64
		1880	15.41	15.70	15.82
		1852.5	15.40	15.80	15.62
	1RB Middle (12)	1907.5	15.40	15.69	15.91
		1880	15.41	15.64	15.74
		1852.5	15.38	15.67	15.77
	1RB Low (0)	1907.5	15.47	15.79	15.78
		1880	15.48	15.82	15.77
		1852.5	15.49	15.88	15.77
	12RB High (13)	1907.5	15.46	15.47	15.45
		1880	15.51	15.50	15.55
		1852.5	15.50	15.49	15.51
	12RB Middle (6)	1907.5	15.55	15.59	15.58
		1880	15.54	15.54	15.52
		1852.5	15.55	15.58	15.60
	12RB Low (0)	1907.5	15.57	15.62	15.62
		1880	15.54	15.53	15.56
		1852.5	15.62	15.69	15.62
	25RB (0)	1907.5	15.56	15.57	15.56
		1880	15.47	15.51	15.48
		1852.5	15.57	15.52	15.72
10 MHz	1RB High (49)	1905	15.48	15.70	15.53
		1880	15.39	15.68	15.64
		1855	15.26	15.60	15.56
	1RB Middle (24)	1905	15.73	15.64	15.65
		1880	15.41	15.78	15.68
		1855	15.68	15.70	15.92
	1RB Low (0)	1905	15.63	15.91	15.71
		1880	15.63	15.95	15.69
		1855	15.54	15.88	15.75
	25RB High (25)	1905	15.47	15.51	15.54
		1880	15.53	15.65	15.55
		1855	15.47	15.47	15.54
	25RB Middle (12)	1905	15.48	15.61	15.58
		1880	15.52	15.52	15.54
		1855	15.54	15.62	15.64
	25RB Low (0)	1905	15.54	15.61	15.64
		1880	15.43	15.61	15.52
		1855	15.58	15.64	15.64
	50RB (0)	1905	15.55	15.56	15.58
		1880	15.49	15.47	15.43
		1855	15.59	15.48	15.55
15 MHz	1RB High (74)	1902.5	15.30	15.66	15.44
		1880	15.19	15.59	15.53
		1857.5	15.19	15.55	15.32
	1RB Middle (37)	1902.5	15.37	15.44	15.43
		1880	15.24	15.64	15.43
		1857.5	15.18	15.68	15.47

	1RB Low (0)	1902.5	15.33	15.70	15.58
		1880	15.30	15.65	15.58
		1857.5	15.36	15.66	15.49
	36RB High (38)	1902.5	15.39	15.52	15.34
		1880	15.36	15.46	15.46
		1857.5	15.40	15.39	15.42
	36RB Middle (19)	1902.5	15.39	15.43	15.40
		1880	15.41	15.37	15.35
		1857.5	15.45	15.41	15.47
	36RB Low (0)	1902.5	15.48	15.45	15.46
		1880	15.31	15.44	15.38
		1857.5	15.37	15.39	15.38
	75RB (0)	1902.5	15.43	15.46	15.46
		1880	15.39	15.37	15.36
		1857.5	15.46	15.45	15.48
20 MHz	1RB High (99)	1900	15.43	15.58	15.60
		1880	15.35	15.66	15.58
		1860	15.21	15.53	15.45
	1RB Middle (50)	1900	15.45	15.77	15.48
		1880	15.34	15.59	15.41
		1860	15.26	15.63	15.52
	1RB Low (0)	1900	15.35	15.69	15.47
		1880	15.32	15.73	15.45
		1860	15.36	15.71	15.58
	50RB High (50)	1900	15.50	15.44	15.56
		1880	15.49	15.57	15.38
		1860	15.40	15.48	15.48
	50RB Middle (25)	1900	15.46	15.50	15.55
		1880	15.42	15.40	15.38
		1860	15.42	15.53	15.50
	50RB Low (0)	1900	15.46	15.45	15.48
		1880	15.46	15.38	15.39
		1860	15.44	15.40	15.41
	100RB (0)	1900	15.54	15.44	15.50
		1880	15.43	15.49	15.38
		1860	15.44	15.53	15.45

Power Level B2

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	21.24	21.35	21.29
		1880	21.14	21.49	21.55
		1850.7	21.29	21.71	21.49
	1RB Middle (3)	1909.3	21.32	21.42	21.46
		1880	21.27	21.52	21.58
		1850.7	21.40	21.79	21.54
	1RB Low (0)	1909.3	21.23	21.53	21.54
		1880	21.29	21.47	21.45
		1850.7	21.37	21.82	21.57
	3RB High (3)	1909.3	21.18	21.23	21.22
		1880	21.20	21.36	21.31
		1850.7	21.32	21.42	21.40
	3RB Middle (1)	1909.3	21.32	21.17	21.37
		1880	21.33	21.39	21.48
		1850.7	21.36	21.49	21.48
	3RB Low (0)	1909.3	21.30	21.39	21.34
		1880	21.27	21.35	21.44
		1850.7	21.39	21.50	21.54
	6RB (0)	1909.3	21.26	20.40	20.35
		1880	21.34	20.91	20.87
		1850.7	21.38	21.04	20.98
3 MHz	1RB High (14)	1908.5	21.20	21.49	21.51
		1880	21.26	21.50	21.52
		1851.5	21.25	21.55	21.49
	1RB Middle (7)	1908.5	21.38	21.44	21.56
		1880	21.41	21.54	21.45
		1851.5	21.42	21.59	21.72
	1RB Low (0)	1908.5	21.38	21.82	21.65
		1880	21.36	21.73	21.60
		1851.5	21.48	21.83	21.84
	8RB High (7)	1908.5	21.32	20.59	20.56
		1880	21.27	20.92	20.88
		1851.5	21.43	21.02	20.96
	8RB Middle (4)	1908.5	21.38	20.72	20.67
		1880	21.42	20.97	20.98
		1851.5	21.52	21.07	21.02
	8RB Low (0)	1908.5	21.45	20.92	20.82
		1880	21.34	21.00	20.90
		1851.5	21.52	21.07	21.11
	15RB (0)	1908.5	21.40	20.67	20.68
		1880	21.38	20.93	20.85
		1851.5	21.49	21.01	20.99

5 MHz	1RB High (24)	1907.5	21.27	21.50	21.37
		1880	21.26	21.65	21.58
		1852.5	21.31	21.79	21.55
	1RB Middle (12)	1907.5	21.29	21.60	21.63
		1880	21.30	21.63	21.52
		1852.5	21.30	21.63	21.53
	1RB Low (0)	1907.5	21.31	21.86	21.69
		1880	21.26	21.65	21.41
		1852.5	21.39	21.86	21.75
	12RB High (13)	1907.5	21.29	20.65	20.75
		1880	21.29	20.79	20.87
		1852.5	21.43	20.97	20.82
	12RB Middle (6)	1907.5	21.42	20.94	20.89
		1880	21.41	20.97	20.87
		1852.5	21.54	21.01	20.98
	12RB Low (0)	1907.5	21.44	20.98	20.98
		1880	21.35	20.85	20.91
		1852.5	21.51	21.08	21.07
	25RB (0)	1907.5	21.40	20.74	20.77
		1880	21.36	20.86	20.83
		1852.5	21.45	20.94	20.95
10 MHz	1RB High (49)	1905	21.32	21.52	21.51
		1880	21.21	21.52	21.43
		1855	21.25	21.56	21.49
	1RB Middle (24)	1905	21.31	21.69	21.51
		1880	21.20	21.46	21.41
		1855	21.42	21.44	21.59
	1RB Low (0)	1905	21.14	21.79	21.53
		1880	21.32	21.65	21.47
		1855	21.51	21.75	21.73
	25RB High (25)	1905	21.37	20.87	20.88
		1880	21.28	20.85	20.83
		1855	21.37	20.81	20.96
	25RB Middle (12)	1905	21.45	20.87	20.85
		1880	21.33	20.80	20.83
		1855	21.47	20.93	21.01
	25RB Low (0)	1905	21.35	20.91	20.95
		1880	21.40	20.85	20.80
		1855	21.48	21.02	21.00
	50RB (0)	1905	21.41	20.86	20.91
		1880	21.31	20.86	20.83
		1855	21.49	21.05	20.98
15 MHz	1RB High (74)	1902.5	21.08	21.34	21.44
		1880	21.00	21.39	21.35
		1857.5	21.14	21.43	21.33
	1RB Middle (37)	1902.5	21.04	21.40	21.32
		1880	21.14	21.50	21.26
		1857.5	21.19	21.48	21.41

	1RB Low (0)	1902.5	21.19	21.54	21.34
		1880	21.08	21.42	21.35
		1857.5	21.30	21.55	21.37
	36RB High (38)	1902.5	21.19	20.74	20.74
		1880	21.05	20.64	20.68
		1857.5	21.26	20.78	20.77
	36RB Middle (19)	1902.5	21.30	20.74	20.74
		1880	21.14	20.71	20.66
		1857.5	21.35	20.79	20.83
	36RB Low (0)	1902.5	21.20	20.71	20.81
		1880	21.22	20.64	20.75
		1857.5	21.32	20.89	20.84
	75RB (0)	1902.5	21.20	20.71	20.75
		1880	21.13	20.71	20.65
		1857.5	21.28	20.83	20.83
20 MHz	1RB High (99)	1900	21.08	21.33	21.33
		1880	20.96	21.36	21.37
		1860	21.08	21.39	21.31
	1RB Middle (50)	1900	21.01	21.37	21.20
		1880	21.01	21.33	21.25
		1860	21.11	21.42	21.47
	1RB Low (0)	1900	21.13	21.28	21.38
		1880	20.99	21.46	21.23
		1860	21.11	21.37	21.34
	50RB High (50)	1900	21.18	20.70	20.73
		1880	21.10	20.61	20.62
		1860	21.23	20.76	20.76
	50RB Middle (25)	1900	21.24	20.74	20.71
		1880	21.16	20.61	20.70
		1860	21.30	20.77	20.77
	50RB Low (0)	1900	21.17	20.75	20.74
		1880	21.18	20.65	20.72
		1860	21.22	20.79	20.81
	100RB (0)	1900	21.22	20.76	20.77
		1880	21.13	20.60	20.65
		1860	21.22	20.74	20.78

Power Level C2

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	13.94	14.22	14.28
		1880	14.00	14.36	14.28
		1850.7	14.15	14.48	14.34
	1RB Middle (3)	1909.3	14.09	14.33	14.31
		1880	14.14	14.43	14.41
		1850.7	14.15	14.51	14.46
	1RB Low (0)	1909.3	14.03	14.36	14.31
		1880	14.08	14.42	14.27
		1850.7	14.14	14.40	14.35
	3RB High (3)	1909.3	14.03	14.05	14.16
		1880	14.02	14.10	14.20
		1850.7	14.14	14.14	14.22
	3RB Middle (1)	1909.3	14.08	14.12	14.16
		1880	14.16	14.23	14.28
		1850.7	14.24	14.29	14.32
	3RB Low (0)	1909.3	14.03	14.07	14.11
		1880	14.11	14.18	14.22
		1850.7	14.18	14.23	14.27
	6RB (0)	1909.3	14.05	14.18	14.13
		1880	14.15	14.21	14.11
		1850.7	14.23	14.30	14.24
3 MHz	1RB High (14)	1908.5	14.05	14.33	14.35
		1880	14.07	14.46	14.33
		1851.5	14.13	14.50	14.37
	1RB Middle (7)	1908.5	14.09	14.38	14.14
		1880	14.03	14.50	14.26
		1851.5	14.38	14.43	14.26
	1RB Low (0)	1908.5	14.13	14.46	14.35
		1880	14.15	14.40	14.42
		1851.5	14.27	14.64	14.66
	8RB High (7)	1908.5	14.16	14.14	14.18
		1880	14.20	14.22	14.29
		1851.5	14.25	14.28	14.22
	8RB Middle (4)	1908.5	14.18	14.28	14.25
		1880	14.26	14.32	14.28
		1851.5	14.32	14.37	14.31
	8RB Low (0)	1908.5	14.18	14.27	14.24
		1880	14.20	14.29	14.22
		1851.5	14.34	14.37	14.32
	15RB (0)	1908.5	14.17	14.17	14.20
		1880	14.18	14.18	14.13
		1851.5	14.30	14.30	14.28

5 MHz	1RB High (24)	1907.5	14.05	14.36	14.34
		1880	14.07	14.28	14.19
		1852.5	14.11	14.42	14.30
	1RB Middle (12)	1907.5	14.11	14.35	14.18
		1880	14.16	14.50	14.27
		1852.5	14.14	14.46	14.27
	1RB Low (0)	1907.5	14.11	14.53	14.26
		1880	14.15	14.40	14.42
		1852.5	14.23	14.49	14.53
	12RB High (13)	1907.5	14.09	14.17	14.13
		1880	14.09	14.16	14.11
		1852.5	14.19	14.29	14.21
	12RB Middle (6)	1907.5	14.22	14.20	14.25
		1880	14.22	14.18	14.24
		1852.5	14.38	14.38	14.33
	12RB Low (0)	1907.5	14.30	14.23	14.24
		1880	14.23	14.20	14.25
		1852.5	14.32	14.32	14.37
	25RB (0)	1907.5	14.15	14.19	14.19
		1880	14.16	14.16	14.19
		1852.5	14.30	14.27	14.27
10 MHz	1RB High (49)	1905	14.08	14.33	14.29
		1880	14.04	14.41	14.29
		1855	14.09	14.40	14.43
	1RB Middle (24)	1905	14.14	14.38	14.30
		1880	14.17	14.47	14.21
		1855	14.44	14.38	14.34
	1RB Low (0)	1905	14.14	14.51	14.45
		1880	14.28	14.44	14.47
		1855	14.26	14.56	14.45
	25RB High (25)	1905	14.21	14.16	14.04
		1880	14.11	14.15	14.15
		1855	14.26	14.24	14.23
	25RB Middle (12)	1905	14.27	14.21	14.22
		1880	14.22	14.22	14.19
		1855	14.29	14.34	14.23
	25RB Low (0)	1905	14.18	14.30	14.23
		1880	14.25	14.25	14.21
		1855	14.28	14.35	14.34
	50RB (0)	1905	14.20	14.24	14.22
		1880	14.21	14.15	14.14
		1855	14.24	14.29	14.26
15 MHz	1RB High (74)	1902.5	14.00	14.36	14.16
		1880	13.97	14.32	14.25
		1857.5	14.00	14.37	14.21
	1RB Middle (37)	1902.5	13.99	14.20	14.15
		1880	13.95	14.20	14.26
		1857.5	14.08	14.38	14.17

	1RB Low (0)	1902.5	14.04	14.18	14.28
		1880	14.09	14.33	14.31
		1857.5	14.07	14.42	14.40
	36RB High (38)	1902.5	14.13	14.08	14.07
		1880	13.96	14.04	13.99
		1857.5	14.11	14.18	14.11
	36RB Middle (19)	1902.5	14.15	14.11	14.09
		1880	13.97	14.02	14.00
		1857.5	14.15	14.22	14.17
	36RB Low (0)	1902.5	14.12	14.07	14.14
		1880	14.08	14.12	14.01
		1857.5	14.15	14.21	14.19
	75RB (0)	1902.5	14.08	14.11	14.12
		1880	14.05	14.07	14.02
		1857.5	14.14	14.19	14.18
20 MHz	1RB High (99)	1900	13.87	14.36	14.22
		1880	13.91	14.46	14.22
		1860	14.05	14.49	13.94
	1RB Middle (50)	1900	13.93	14.37	14.11
		1880	14.04	14.40	14.18
		1860	14.08	14.38	14.12
	1RB Low (0)	1900	13.98	14.42	14.23
		1880	14.14	14.38	14.19
		1860	14.04	14.37	14.22
	50RB High (50)	1900	14.07	14.13	14.08
		1880	14.09	14.08	14.07
		1860	14.15	14.22	13.96
	50RB Middle (25)	1900	14.22	14.18	14.11
		1880	14.05	14.11	14.05
		1860	14.19	14.17	14.08
	50RB Low (0)	1900	14.23	14.10	14.15
		1880	14.15	14.12	13.99
		1860	14.12	14.14	14.06
	100RB (0)	1900	14.15	14.15	14.06
		1880	14.19	14.03	14.05
		1860	14.20	14.16	14.14

Power Level D2

Band 2					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1909.3	18.49	18.71	18.76
		1880	18.51	18.80	18.63
		1850.7	18.51	18.90	18.70
	1RB Middle (3)	1909.3	18.59	18.86	18.81
		1880	18.63	18.88	18.75
		1850.7	18.65	18.96	18.80
	1RB Low (0)	1909.3	18.57	18.88	18.81
		1880	18.58	18.81	18.77
		1850.7	18.57	18.98	18.79
	3RB High (3)	1909.3	18.53	18.57	18.68
		1880	18.55	18.58	18.59
		1850.7	18.63	18.54	18.62
	3RB Middle (1)	1909.3	18.65	18.73	18.71
		1880	18.55	18.62	18.72
		1850.7	18.71	18.72	18.69
	3RB Low (0)	1909.3	18.62	18.56	18.69
		1880	18.58	18.66	18.71
		1850.7	18.69	18.67	18.74
	6RB (0)	1909.3	18.61	18.67	18.59
		1880	18.63	18.64	18.57
		1850.7	18.71	18.66	18.62
3 MHz	1RB High (14)	1908.5	18.55	18.91	18.81
		1880	18.51	18.76	18.73
		1851.5	18.60	18.85	18.69
	1RB Middle (7)	1908.5	18.56	18.87	18.82
		1880	18.54	18.96	18.87
		1851.5	18.60	18.91	18.80
	1RB Low (0)	1908.5	18.67	19.05	18.99
		1880	18.69	18.88	18.89
		1851.5	18.75	19.15	18.82
	8RB High (7)	1908.5	18.65	18.76	18.74
		1880	18.70	18.73	18.72
		1851.5	18.66	18.74	18.68
	8RB Middle (4)	1908.5	18.80	18.75	18.78
		1880	18.75	18.79	18.71
		1851.5	18.77	18.75	18.73
	8RB Low (0)	1908.5	18.80	18.81	18.70
		1880	18.70	18.76	18.67
		1851.5	18.74	18.85	18.80
	15RB (0)	1908.5	18.67	18.73	18.69
		1880	18.59	18.62	18.63
		1851.5	18.75	18.76	18.68

5 MHz	1RB High (24)	1907.5	18.60	18.92	18.84
		1880	18.61	18.79	18.66
		1852.5	18.63	18.97	18.85
	1RB Middle (12)	1907.5	18.68	18.95	18.80
		1880	18.68	18.90	18.72
		1852.5	18.64	18.88	18.90
	1RB Low (0)	1907.5	18.62	19.08	18.82
		1880	18.63	18.95	18.82
		1852.5	18.74	19.06	19.00
	12RB High (13)	1907.5	18.66	18.68	18.58
		1880	18.70	18.70	18.67
		1852.5	18.70	18.62	18.65
	12RB Middle (6)	1907.5	18.72	18.72	18.67
		1880	18.64	18.67	18.66
		1852.5	18.77	18.74	18.79
	12RB Low (0)	1907.5	18.78	18.81	18.71
		1880	18.69	18.71	18.67
		1852.5	18.79	18.80	18.76
	25RB (0)	1907.5	18.76	18.70	18.76
		1880	18.64	18.68	18.63
		1852.5	18.77	18.70	18.75
10 MHz	1RB High (49)	1905	18.51	19.01	18.88
		1880	18.66	18.81	18.82
		1855	18.52	18.85	18.83
	1RB Middle (24)	1905	18.53	18.68	18.71
		1880	18.58	18.89	18.66
		1855	18.94	18.82	18.80
	1RB Low (0)	1905	18.49	19.06	18.74
		1880	18.60	18.94	18.82
		1855	18.74	19.11	18.88
	25RB High (25)	1905	18.70	18.72	18.62
		1880	18.66	18.73	18.72
		1855	18.70	18.73	18.64
	25RB Middle (12)	1905	18.80	18.83	18.75
		1880	18.68	18.70	18.68
		1855	18.82	18.71	18.79
	25RB Low (0)	1905	18.76	18.84	18.76
		1880	18.70	18.67	18.56
		1855	18.79	18.78	18.79
	50RB (0)	1905	18.72	18.68	18.74
		1880	18.66	18.65	18.60
		1855	18.70	18.74	18.62
15 MHz	1RB High (74)	1902.5	18.46	18.83	18.63
		1880	18.37	18.80	18.72
		1857.5	18.52	18.75	18.53
	1RB Middle (37)	1902.5	18.45	18.62	18.64
		1880	18.44	18.77	18.63
		1857.5	18.48	18.83	18.56

	1RB Low (0)	1902.5	18.49	18.77	18.64
		1880	18.42	18.74	18.69
		1857.5	18.53	18.90	18.67
	36RB High (38)	1902.5	18.54	18.59	18.67
		1880	18.56	18.62	18.58
		1857.5	18.57	18.51	18.55
	36RB Middle (19)	1902.5	18.62	18.64	18.59
		1880	18.48	18.53	18.43
		1857.5	18.51	18.64	18.60
	36RB Low (0)	1902.5	18.57	18.65	18.57
		1880	18.50	18.53	18.51
		1857.5	18.53	18.59	18.52
20 MHz	75RB (0)	1902.5	18.61	18.65	18.69
		1880	18.59	18.53	18.54
		1857.5	18.62	18.64	18.59
	1RB High (99)	1900	18.40	18.71	18.58
		1880	18.42	18.89	18.49
		1860	18.36	18.77	18.61
	1RB Middle (50)	1900	18.57	18.80	18.72
		1880	18.48	18.77	18.64
		1860	18.41	18.76	18.62
	1RB Low (0)	1900	18.52	18.76	18.62
		1880	18.39	18.68	18.64
		1860	18.47	18.91	18.67
	50RB High (50)	1900	18.63	18.58	18.65
		1880	18.60	18.62	18.63
		1860	18.62	18.62	18.65
	50RB Middle (25)	1900	18.61	18.67	18.60
		1880	18.56	18.55	18.55
		1860	18.64	18.65	18.59
	50RB Low (0)	1900	18.57	18.66	18.64
		1880	18.56	18.53	18.62
		1860	18.57	18.59	18.63
	100RB (0)	1900	18.57	18.61	18.59
		1880	18.48	18.52	18.54
		1860	18.58	18.59	18.56

Power Level A2

Band 5					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	21.42	21.69	21.62
		836.5	21.47	21.75	21.55
		824.7	21.49	21.77	21.68
	1RB Middle (3)	848.3	21.54	21.82	21.68
		836.5	21.59	21.77	21.74
		824.7	21.59	21.88	21.75
	1RB Low (0)	848.3	21.44	21.76	21.61
		836.5	21.43	21.78	21.78
		824.7	21.53	21.73	21.91
	3RB High (3)	848.3	21.46	21.44	21.56
		836.5	21.58	21.52	21.64
		824.7	21.53	21.55	21.62
	3RB Middle (1)	848.3	21.50	21.58	21.61
		836.5	21.55	21.56	21.59
		824.7	21.55	21.62	21.63
	3RB Low (0)	848.3	21.41	21.48	21.56
		836.5	21.44	21.48	21.59
		824.7	21.47	21.62	21.66
	6RB (0)	848.3	21.55	21.56	21.49
		836.5	21.58	21.55	21.50
		824.7	21.58	21.67	21.59
3 MHz	1RB High (14)	847.5	21.53	21.93	21.80
		836.5	21.58	21.92	21.76
		825.5	21.57	21.96	21.79
	1RB Middle (7)	847.5	21.44	21.71	21.76
		836.5	21.57	21.78	21.61
		825.5	21.54	21.78	21.77
	1RB Low (0)	847.5	21.61	21.81	21.84
		836.5	21.61	21.81	21.88
		825.5	21.57	21.94	21.78
	8RB High (7)	847.5	21.55	21.71	21.60
		836.5	21.66	21.70	21.70
		825.5	21.62	21.70	21.70
	8RB Middle (4)	847.5	21.58	21.74	21.63
		836.5	21.70	21.77	21.72
		825.5	21.68	21.77	21.69
	8RB Low (0)	847.5	21.64	21.70	21.54
		836.5	21.61	21.66	21.63
		825.5	21.70	21.72	21.70
	15RB (0)	847.5	21.66	21.68	21.63
		836.5	21.58	21.62	21.59
		825.5	21.70	21.66	21.69

5 MHz	1RB High (24)	846.5	21.52	21.78	21.85
		836.5	21.61	21.94	21.81
		826.5	21.55	21.98	21.95
	1RB Middle (12)	846.5	21.63	21.80	21.66
		836.5	21.56	21.99	21.81
		826.5	21.52	21.78	21.89
	1RB Low (0)	846.5	21.52	21.81	21.63
		836.5	21.59	21.98	21.89
		826.5	21.66	21.90	21.85
	12RB High (13)	846.5	21.62	21.64	21.49
		836.5	21.74	21.68	21.52
		826.5	21.68	21.72	21.55
	12RB Middle (6)	846.5	21.57	21.56	21.42
		836.5	21.65	21.67	21.49
		826.5	21.61	21.69	21.56
	12RB Low (0)	846.5	21.61	21.61	21.46
		836.5	21.68	21.67	21.57
		826.5	21.63	21.74	21.61
	25RB (0)	846.5	21.59	21.54	21.42
		836.5	21.66	21.66	21.47
		826.5	21.75	21.66	21.57
10 MHz	1RB High (49)	844.0	21.43	21.63	21.64
		836.5	21.57	21.82	21.79
		829.0	21.36	21.90	21.80
	1RB Middle (24)	844.0	21.77	21.74	21.62
		836.5	21.62	21.98	21.66
		829.0	21.81	21.86	21.67
	1RB Low (0)	844.0	21.74	21.94	21.82
		836.5	21.54	21.91	21.75
		829.0	21.76	21.87	21.79
	25RB High (25)	844.0	21.55	21.63	21.56
		836.5	21.71	21.69	21.71
		829.0	21.66	21.62	21.71
	25RB Middle (12)	844.0	21.53	21.61	21.66
		836.5	21.61	21.60	21.61
		829.0	21.65	21.76	21.70
	25RB Low (0)	844.0	21.51	21.64	21.63
		836.5	21.64	21.64	21.64
		829.0	21.62	21.47	21.51
	50RB (0)	844.0	21.55	21.65	21.65
		836.5	21.65	21.67	21.66
		829.0	21.71	21.62	21.71

Power Level B2/C2

Band 5					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	23.44	22.65	22.62
		836.5	23.52	22.78	22.56
		824.7	23.55	22.84	22.68
	1RB Middle (3)	848.3	23.41	22.74	22.62
		836.5	23.59	22.78	22.70
		824.7	23.60	22.97	22.75
	1RB Low (0)	848.3	23.39	22.66	22.64
		836.5	23.46	22.77	22.58
		824.7	23.49	22.92	22.68
	3RB High (3)	848.3	23.44	22.56	22.55
		836.5	23.49	22.58	22.58
		824.7	23.52	22.65	22.62
	3RB Middle (1)	848.3	23.44	22.53	22.54
		836.5	23.52	22.56	22.77
		824.7	23.61	22.71	22.72
	3RB Low (0)	848.3	23.44	22.54	22.53
		836.5	23.41	22.50	22.51
		824.7	23.49	22.55	22.66
	6RB (0)	848.3	22.49	21.59	21.45
		836.5	22.49	21.55	21.52
		824.7	22.58	21.61	21.64
3 MHz	1RB High (14)	847.5	23.58	22.78	22.86
		836.5	23.57	22.86	22.79
		825.5	23.55	22.99	22.89
	1RB Middle (7)	847.5	23.51	22.83	22.63
		836.5	23.50	22.77	22.64
		825.5	23.55	22.87	22.86
	1RB Low (0)	847.5	23.59	22.89	22.76
		836.5	23.53	22.93	22.77
		825.5	23.67	22.87	22.86
	8RB High (7)	847.5	22.64	21.67	21.61
		836.5	22.67	21.68	21.68
		825.5	22.65	21.71	21.77
	8RB Middle (4)	847.5	22.57	21.69	21.59
		836.5	22.65	21.71	21.60
		825.5	22.68	21.73	21.74
	8RB Low (0)	847.5	22.65	21.65	21.58
		836.5	22.64	21.62	21.63
		825.5	22.69	21.76	21.70
	15RB (0)	847.5	22.60	21.62	21.64
		836.5	22.57	21.61	21.59
		825.5	22.67	21.74	21.65

5 MHz	1RB High (24)	846.5	23.53	22.88	22.93
		836.5	23.66	23.01	22.85
		826.5	23.64	23.13	22.89
	1RB Middle (12)	846.5	23.50	22.83	22.61
		836.5	23.62	22.93	22.71
		826.5	23.63	23.06	22.78
	1RB Low (0)	846.5	23.52	22.89	22.77
		836.5	23.58	22.99	22.84
		826.5	23.69	23.14	22.97
	12RB High (13)	846.5	22.68	21.61	21.61
		836.5	22.69	21.68	21.73
		826.5	22.76	21.74	21.74
	12RB Middle (6)	846.5	22.59	21.59	21.54
		836.5	22.73	21.74	21.64
		826.5	22.70	21.75	21.73
	12RB Low (0)	846.5	22.57	21.67	21.68
		836.5	22.68	21.67	21.65
		826.5	22.72	21.74	21.74
	25RB (0)	846.5	22.65	21.67	21.54
		836.5	22.62	21.69	21.65
		826.5	22.83	21.72	21.72
10 MHz	1RB High (49)	844.0	23.62	23.04	21.67
		836.5	23.45	23.01	21.77
		829.0	23.45	22.95	21.77
	1RB Middle (24)	844.0	23.54	22.83	21.82
		836.5	23.74	22.78	21.88
		829.0	23.75	22.87	21.86
	1RB Low (0)	844.0	23.63	23.13	21.81
		836.5	23.64	23.18	21.87
		829.0	23.62	23.01	21.90
	25RB High (25)	844.0	22.81	21.75	20.71
		836.5	22.80	21.71	20.83
		829.0	22.73	21.79	20.79
	25RB Middle (12)	844.0	22.80	21.71	20.85
		836.5	22.83	21.74	20.81
		829.0	22.84	21.81	20.88
	25RB Low (0)	844.0	22.76	21.69	20.69
		836.5	22.79	21.67	20.76
		829.0	22.69	21.80	20.76
	50RB (0)	844.0	22.79	21.78	20.85
		836.5	22.70	21.70	20.73
		829.0	22.84	21.79	20.89

Power Level D2

Band 5					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	20.46	20.86	20.54
		836.5	20.54	20.83	20.71
		824.7	20.60	20.89	20.62
	1RB Middle (3)	848.3	20.48	20.94	20.66
		836.5	20.58	21.05	20.85
		824.7	20.67	20.96	20.78
	1RB Low (0)	848.3	20.49	20.84	20.61
		836.5	20.52	20.91	20.78
		824.7	20.65	20.86	20.84
	3RB High (3)	848.3	20.50	20.61	20.69
		836.5	20.60	20.64	20.72
		824.7	20.61	20.63	20.73
	3RB Middle (1)	848.3	20.56	20.68	20.72
		836.5	20.64	20.78	20.74
		824.7	20.60	20.64	20.70
	3RB Low (0)	848.3	20.50	20.62	20.67
		836.5	20.54	20.67	20.68
		824.7	20.63	20.64	20.66
	6RB (0)	848.3	20.53	20.65	20.60
		836.5	20.54	20.74	20.63
		824.7	20.68	20.72	20.66
3 MHz	1RB High (14)	847.5	20.59	20.88	20.76
		836.5	20.67	20.94	20.88
		825.5	20.63	21.02	20.88
	1RB Middle (7)	847.5	20.52	20.95	20.82
		836.5	20.64	20.89	20.93
		825.5	20.59	20.87	20.79
	1RB Low (0)	847.5	20.65	20.93	20.80
		836.5	20.62	20.94	20.82
		825.5	20.73	21.04	20.90
	8RB High (7)	847.5	20.65	20.68	20.71
		836.5	20.72	20.79	20.78
		825.5	20.74	20.75	20.69
	8RB Middle (4)	847.5	20.67	20.69	20.69
		836.5	20.71	20.78	20.75
		825.5	20.80	20.82	20.69
	8RB Low (0)	847.5	20.64	20.72	20.68
		836.5	20.74	20.70	20.68
		825.5	20.75	20.83	20.80
	15RB (0)	847.5	20.62	20.72	20.65
		836.5	20.64	20.73	20.73
		825.5	20.75	20.77	20.68

5 MHz	1RB High (24)	846.5	20.62	20.91	20.75
		836.5	20.71	21.02	20.91
		826.5	20.65	20.91	20.93
	1RB Middle (12)	846.5	20.63	20.87	20.71
		836.5	20.64	20.89	20.93
		826.5	20.61	20.77	20.78
	1RB Low (0)	846.5	20.52	20.95	20.74
		836.5	20.59	21.11	20.85
		826.5	20.79	20.99	20.96
	12RB High (13)	846.5	20.67	20.74	20.68
		836.5	20.74	20.76	20.78
		826.5	20.75	20.79	20.71
	12RB Middle (6)	846.5	20.68	20.64	20.64
		836.5	20.68	20.75	20.69
		826.5	20.71	20.82	20.75
	12RB Low (0)	846.5	20.62	20.67	20.67
		836.5	20.71	20.70	20.71
		826.5	20.71	20.79	20.73
	25RB (0)	846.5	20.62	20.61	20.68
		836.5	20.65	20.80	20.70
		826.5	20.80	20.74	20.71
10 MHz	1RB High (49)	844.0	20.38	20.86	20.79
		836.5	20.43	21.00	20.78
		829.0	20.58	20.94	20.84
	1RB Middle (24)	844.0	20.60	20.82	20.79
		836.5	20.64	20.88	20.82
		829.0	20.68	20.82	20.80
	1RB Low (0)	844.0	20.58	20.98	20.85
		836.5	20.58	21.02	20.86
		829.0	20.76	20.94	20.93
	25RB High (25)	844.0	20.72	20.68	20.70
		836.5	20.69	20.82	20.80
		829.0	20.80	20.71	20.82
	25RB Middle (12)	844.0	20.72	20.73	20.75
		836.5	20.67	20.80	20.78
		829.0	20.72	20.74	20.97
	25RB Low (0)	844.0	20.69	20.68	20.73
		836.5	20.69	20.86	20.70
		829.0	20.73	20.69	20.80
	50RB (0)	844.0	20.76	20.66	20.68
		836.5	20.74	20.79	20.77
		829.0	20.71	20.72	20.78

Power Level A2/ D2

Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	15.78	16.14	16.18
		2535	15.79	16.09	16.02
		2502.5	15.70	16.17	15.98
	1RB Middle (12)	2567.5	15.83	16.08	16.01
		2535	15.76	15.92	15.94
		2502.5	15.74	15.91	16.04
	1RB Low (0)	2567.5	15.83	16.18	16.00
		2535	15.69	16.07	15.92
		2502.5	15.81	16.10	15.92
	12RB High (13)	2567.5	15.91	15.95	15.88
		2535	15.93	15.81	15.89
		2502.5	15.84	15.87	15.86
	12RB Middle (6)	2567.5	15.88	15.97	15.83
		2535	15.84	15.83	15.90
		2502.5	15.88	15.80	15.88
	12RB Low (0)	2567.5	15.82	15.84	15.82
		2535	15.76	15.70	15.66
		2502.5	15.78	15.76	15.78
	25RB (0)	2567.5	15.88	15.88	15.86
		2535	15.83	15.72	15.81
		2502.5	15.84	15.83	15.85
10 MHz	1RB High (49)	2565	15.99	16.26	16.14
		2535	15.74	16.10	15.95
		2505	15.78	15.98	16.03
	1RB Middle (24)	2565	15.90	16.05	16.00
		2535	15.82	16.02	15.89
		2505	15.76	15.97	15.94
	1RB Low (0)	2565	15.86	16.16	16.02
		2535	15.66	16.08	15.97
		2505	15.77	16.02	15.80
	25RB High (25)	2565	15.98	15.96	15.94
		2535	15.92	15.88	15.88
		2505	15.84	15.85	15.86
	25RB Middle (12)	2565	15.96	15.94	15.97
		2535	15.85	15.85	15.78
		2505	15.87	15.83	15.89
	25RB Low (0)	2565	15.95	15.94	15.97
		2535	15.79	15.83	15.84
		2505	15.82	15.84	15.85
	50RB (0)	2565	16.03	15.90	15.97
		2535	15.78	15.81	15.71
		2505	15.82	15.78	15.75

15 MHz	1RB High (74)	2562.5	15.58	15.91	15.80
		2535	15.61	15.95	15.81
		2507.5	15.46	15.69	15.83
	1RB Middle (37)	2562.5	15.64	16.06	15.72
		2535	15.62	15.77	15.78
		2507.5	15.53	15.77	15.81
	1RB Low (0)	2562.5	15.72	16.02	16.12
		2535	15.59	15.98	16.01
		2507.5	15.44	15.74	15.75
	36RB High (38)	2562.5	15.87	15.85	15.84
		2535	15.76	15.74	15.65
		2507.5	15.74	15.71	15.67
	36RB Middle (19)	2562.5	15.94	15.84	15.74
		2535	15.72	15.75	15.70
		2507.5	15.72	15.69	15.75
	36RB Low (0)	2562.5	15.87	15.87	15.87
		2535	15.74	15.71	15.72
		2507.5	15.76	15.69	15.65
	75RB (0)	2562.5	15.82	15.78	15.84
		2535	15.77	15.75	15.72
		2507.5	15.71	15.70	15.78
20 MHz	1RB High (99)	2560	15.62	15.93	15.79
		2535	15.57	15.75	15.76
		2510	15.56	15.82	15.86
	1RB Middle (50)	2560	15.61	15.95	15.85
		2535	15.60	15.73	15.55
		2510	15.50	15.88	15.65
	1RB Low (0)	2560	15.60	16.02	16.00
		2535	15.54	15.90	15.90
		2510	15.53	15.94	15.64
	50RB High (50)	2560	15.77	15.86	15.83
		2535	15.70	15.71	15.66
		2510	15.71	15.71	15.74
	50RB Middle (25)	2560	15.79	15.81	15.85
		2535	15.63	15.73	15.65
		2510	15.75	15.76	15.70
	50RB Low (0)	2560	15.81	15.84	15.81
		2535	15.69	15.77	15.73
		2510	15.70	15.71	15.71
	100RB (0)	2560	15.88	15.84	15.82
		2535	15.68	15.69	15.81
		2510	15.78	15.76	15.80

Power Level B2/ C2

Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	19.77	20.09	20.02
		2535	19.75	20.28	20.00
		2502.5	19.76	20.10	19.99
	1RB Middle (12)	2567.5	19.77	20.02	19.88
		2535	19.79	20.01	19.90
		2502.5	19.73	20.11	20.00
	1RB Low (0)	2567.5	19.80	20.25	19.99
		2535	19.69	20.06	19.98
		2502.5	19.69	20.03	19.90
	12RB High (13)	2567.5	19.88	19.96	19.95
		2535	19.88	19.97	19.90
		2502.5	19.78	19.89	19.84
	12RB Middle (6)	2567.5	19.87	19.95	19.93
		2535	19.87	19.86	19.89
		2502.5	19.78	19.88	19.87
	12RB Low (0)	2567.5	19.78	19.87	19.83
		2535	19.75	19.80	19.75
		2502.5	19.80	19.81	19.77
	25RB (0)	2567.5	19.87	19.91	19.98
		2535	19.76	19.79	19.83
		2502.5	19.78	19.86	19.87
10 MHz	1RB High (49)	2565	19.72	20.14	20.14
		2535	19.76	20.12	19.87
		2505	19.66	20.02	19.88
	1RB Middle (24)	2565	19.78	19.92	19.88
		2535	19.86	20.07	19.94
		2505	19.75	20.00	19.67
	1RB Low (0)	2565	19.77	20.10	20.08
		2535	19.66	20.16	19.88
		2505	19.78	20.08	19.98
	25RB High (25)	2565	19.84	19.95	19.97
		2535	19.83	19.82	19.84
		2505	19.79	19.87	19.87
	25RB Middle (12)	2565	19.98	20.00	19.94
		2535	19.72	19.70	19.82
		2505	19.85	19.92	19.85
	25RB Low (0)	2565	19.88	19.94	19.99
		2535	19.73	19.72	19.77
		2505	19.87	19.83	19.82
	50RB (0)	2565	19.92	19.97	19.89
		2535	19.79	19.78	19.80
		2505	19.84	19.85	19.88

15 MHz	1RB High (74)	2562.5	19.58	19.90	19.85
		2535	19.53	19.89	19.78
		2507.5	19.50	19.85	19.85
	1RB Middle (37)	2562.5	19.71	20.00	19.78
		2535	19.41	19.85	19.62
		2507.5	19.52	19.86	19.48
	1RB Low (0)	2562.5	19.56	20.08	19.82
		2535	19.56	19.87	19.74
		2507.5	19.45	19.76	19.72
	36RB High (38)	2562.5	19.70	19.77	19.75
		2535	19.62	19.68	19.62
		2507.5	19.64	19.71	19.66
	36RB Middle (19)	2562.5	19.78	19.77	19.78
		2535	19.64	19.73	19.67
		2507.5	19.60	19.72	19.65
	36RB Low (0)	2562.5	19.83	19.78	19.84
		2535	19.68	19.66	19.59
		2507.5	19.69	19.68	19.64
	75RB (0)	2562.5	19.82	19.83	19.78
		2535	19.56	19.71	19.67
		2507.5	19.65	19.70	19.69
20 MHz	1RB High (99)	2560	19.46	19.74	19.69
		2535	19.38	19.64	19.74
		2510	19.42	19.80	19.71
	1RB Middle (50)	2560	19.48	19.82	19.79
		2535	19.42	19.67	19.60
		2510	19.28	19.66	19.63
	1RB Low (0)	2560	19.43	19.93	19.81
		2535	19.34	19.76	19.57
		2510	19.32	19.71	19.56
	50RB High (50)	2560	19.71	19.62	19.70
		2535	19.54	19.56	19.61
		2510	19.52	19.54	19.55
	50RB Middle (25)	2560	19.75	19.68	19.71
		2535	19.61	19.62	19.66
		2510	19.59	19.51	19.64
	50RB Low (0)	2560	19.69	19.71	19.78
		2535	19.58	19.46	19.56
		2510	19.50	19.46	19.54
	100RB (0)	2560	19.66	19.72	19.78
		2535	19.52	19.59	19.62
		2510	19.59	19.56	19.62

Power Level A2/B2/ C2

Band 12					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	715.3	23.05	22.29	22.29
		707.5	23.07	22.51	22.26
		699.7	23.16	22.39	22.39
	1RB Middle (3)	715.3	23.06	22.49	22.34
		707.5	23.14	22.48	22.44
		699.7	23.24	22.55	22.37
	1RB Low (0)	715.3	23.10	22.41	22.36
		707.5	23.11	22.39	22.31
		699.7	23.20	22.51	22.40
	3RB High (3)	715.3	23.13	22.04	22.24
		707.5	23.13	22.23	22.22
		699.7	23.10	22.21	22.27
	3RB Middle (1)	715.3	23.13	22.18	22.30
		707.5	23.23	22.27	22.35
		699.7	23.30	22.25	22.33
	3RB Low (0)	715.3	23.18	22.20	22.20
		707.5	23.17	22.23	22.18
		699.7	23.18	22.29	22.26
	6RB (0)	715.3	22.18	21.29	21.18
		707.5	22.25	21.27	21.22
		699.7	22.23	21.31	21.23
3 MHz	1RB High (14)	714.5	23.15	22.42	22.48
		707.5	23.19	22.58	22.42
		700.5	23.20	22.53	22.49
	1RB Middle (7)	714.5	23.13	22.41	22.43
		707.5	23.18	22.47	22.44
		700.5	23.20	22.51	22.33
	1RB Low (0)	714.5	23.16	22.47	22.37
		707.5	23.21	22.47	22.42
		700.5	23.35	22.65	22.46
	8RB High (7)	714.5	22.27	21.27	21.22
		707.5	22.22	21.34	21.35
		700.5	22.33	21.37	21.35
	8RB Middle (4)	714.5	22.22	21.30	21.31
		707.5	22.31	21.35	21.36
		700.5	22.31	21.37	21.35
	8RB Low (0)	714.5	22.19	21.32	21.32
		707.5	22.28	21.34	21.23
		700.5	22.35	21.39	21.36
	15RB (0)	714.5	22.23	21.18	21.18
		707.5	22.20	21.24	21.25
		700.5	22.35	21.39	21.32
5 MHz	1RB	713.5	23.15	22.45	22.46

	High (24)	707.5	23.15	22.58	22.38
		701.5	23.21	22.54	22.34
	1RB Middle (12)	713.5	23.14	22.49	22.27
		707.5	23.22	22.47	22.43
		701.5	23.39	22.56	22.28
	1RB Low (0)	713.5	23.18	22.49	22.44
		707.5	23.16	22.49	22.35
		701.5	23.18	22.56	22.38
	12RB High (13)	713.5	22.23	21.24	21.18
		707.5	22.27	21.31	21.28
		701.5	22.26	21.32	21.28
	12RB Middle (6)	713.5	22.30	21.35	21.23
		707.5	22.25	21.31	21.27
		701.5	22.38	21.39	21.29
	12RB Low (0)	713.5	22.28	21.27	21.26
		707.5	22.26	21.27	21.24
		701.5	22.41	21.40	21.42
	25RB (0)	713.5	22.21	21.30	21.15
		707.5	22.23	21.25	21.30
		701.5	22.37	21.35	21.34
10 MHz	1RB High (49)	711	22.89	22.26	22.32
		707.5	22.98	22.45	22.29
		704	23.07	22.59	22.25
	1RB Middle (24)	711	23.12	22.35	22.33
		707.5	23.16	22.49	22.20
		704	23.23	22.28	22.29
	1RB Low (0)	711	23.10	22.50	22.37
		707.5	23.07	22.55	22.43
		704	23.11	22.61	22.37
	25RB High (25)	711	22.03	21.18	21.14
		707.5	22.14	21.13	21.24
		704	22.26	21.09	21.28
	25RB Middle (12)	711	22.23	21.23	21.27
		707.5	22.17	21.23	21.27
		704	22.25	21.31	21.27
	25RB Low (0)	711	22.22	21.22	21.24
		707.5	22.15	21.23	21.13
		704	22.21	21.26	21.22
	50RB (0)	711	22.28	21.19	21.23
		707.5	22.05	21.24	21.14
		704	22.23	21.20	21.17

Power Level D2

Band 12					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	715.3	22.66	22.09	21.93
		707.5	22.69	22.03	21.99
		699.7	22.73	22.06	21.90
	1RB Middle (3)	715.3	22.77	22.18	21.95
		707.5	22.82	22.26	22.00
		699.7	22.80	22.19	21.90
	1RB Low (0)	715.3	22.77	22.11	21.96
		707.5	22.76	22.18	21.96
		699.7	22.87	22.14	21.94
	3RB High (3)	715.3	22.71	21.81	21.78
		707.5	22.77	21.90	21.86
		699.7	22.83	21.81	21.83
	3RB Middle (1)	715.3	22.79	21.86	21.75
		707.5	22.80	21.88	21.83
		699.7	22.85	21.97	21.94
	3RB Low (0)	715.3	22.77	21.76	21.79
		707.5	22.82	21.87	21.79
		699.7	22.85	21.92	21.87
	6RB (0)	715.3	21.79	20.94	20.64
		707.5	21.83	20.91	20.75
		699.7	21.91	20.94	20.83
3 MHz	1RB High (14)	714.5	22.82	22.04	21.91
		707.5	22.80	22.20	21.86
		700.5	22.86	22.20	21.89
	1RB Middle (7)	714.5	22.76	22.13	21.86
		707.5	22.84	22.10	21.94
		700.5	22.86	22.27	21.97
	1RB Low (0)	714.5	22.75	22.19	21.92
		707.5	22.91	22.20	21.93
		700.5	22.92	22.19	21.89
	8RB High (7)	714.5	21.83	20.95	20.76
		707.5	21.85	20.97	20.91
		700.5	21.96	20.99	20.82
	8RB Middle (4)	714.5	21.87	21.00	20.80
		707.5	21.87	21.01	20.91
		700.5	21.98	21.09	20.89
	8RB Low (0)	714.5	21.85	20.91	20.84
		707.5	21.87	21.02	20.81
		700.5	22.02	21.09	20.88
	15RB (0)	714.5	21.88	20.87	20.72
		707.5	21.94	20.95	20.84
		700.5	21.99	21.06	20.88
5 MHz	1RB	713.5	22.78	22.04	21.90

	High (24)	707.5	22.89	22.14	21.82
		701.5	22.82	22.14	21.84
	1RB Middle (12)	713.5	22.80	22.18	21.93
		707.5	22.88	22.11	21.91
		701.5	22.86	22.16	21.97
	1RB Low (0)	713.5	22.89	22.15	21.86
		707.5	22.87	22.11	21.87
		701.5	22.84	22.03	21.87
	12RB High (13)	713.5	21.85	20.91	20.80
		707.5	21.92	20.92	20.81
		701.5	21.87	20.84	20.74
	12RB Middle (6)	713.5	21.92	20.91	20.80
		707.5	21.96	20.92	20.81
		701.5	21.96	20.99	20.90
	12RB Low (0)	713.5	21.86	20.95	20.78
		707.5	21.88	20.90	20.81
		701.5	21.97	21.00	20.92
	25RB (0)	713.5	21.84	20.88	20.89
		707.5	21.97	20.87	20.95
		701.5	21.90	21.00	21.00
10 MHz	1RB High (49)	711	22.73	22.08	20.98
		707.5	22.57	22.00	20.84
		704	22.72	22.09	20.85
	1RB Middle (24)	711	22.86	22.15	21.00
		707.5	22.92	22.15	21.11
		704	23.13	22.11	21.08
	1RB Low (0)	711	22.87	22.29	21.16
		707.5	22.82	22.25	21.14
		704	23.07	22.35	21.14
	25RB High (25)	711	21.85	20.94	19.94
		707.5	21.88	21.05	20.11
		704	21.96	20.95	19.93
	25RB Middle (12)	711	21.91	20.96	19.99
		707.5	21.92	20.89	19.96
		704	21.95	20.96	20.04
	25RB Low (0)	711	21.90	20.93	19.91
		707.5	21.94	20.94	20.02
		704	21.88	20.86	19.96
	50RB (0)	711	21.95	20.92	20.00
		707.5	21.96	20.97	19.94
		704	22.04	21.04	20.01

Power Level A2

Band 26					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	23.10	22.48	22.26
		831.5	23.31	22.69	22.50
		814.7	23.33	22.71	22.45
	1RB Middle (3)	848.3	23.19	22.40	22.34
		831.5	23.40	22.72	22.61
		814.7	23.42	22.64	22.62
	1RB Low (0)	848.3	23.13	22.55	22.30
		831.5	23.25	22.54	22.45
		814.7	23.34	22.76	22.55
	3RB High (3)	848.3	23.07	22.19	22.26
		831.5	23.32	22.35	22.44
		814.7	23.37	22.55	22.50
	3RB Middle (1)	848.3	23.15	22.29	22.25
		831.5	23.31	22.42	22.50
		814.7	23.48	22.53	22.57
	3RB Low (0)	848.3	23.08	22.24	22.22
		831.5	23.35	22.34	22.37
		814.7	23.42	22.48	22.52
	6RB (0)	848.3	22.22	21.30	21.15
		831.5	22.38	21.49	21.35
		814.7	22.48	21.54	21.48
3 MHz	1RB High (14)	847.5	23.24	22.68	22.40
		831.5	23.45	22.69	22.60
		815.5	23.43	22.62	21.68
	1RB Middle (7)	847.5	23.32	22.55	22.37
		831.5	23.44	22.70	22.62
		815.5	23.49	22.64	21.71
	1RB Low (0)	847.5	23.37	22.54	22.41
		831.5	23.40	22.72	22.52
		815.5	23.44	22.77	21.61
	8RB High (7)	847.5	22.31	21.37	21.36
		831.5	22.55	21.58	21.50
		815.5	22.54	21.52	20.49
	8RB Middle (4)	847.5	22.42	21.43	21.39
		831.5	22.51	21.51	21.47
		815.5	22.45	21.51	20.49
	8RB Low (0)	847.5	22.32	21.36	21.27
		831.5	22.50	21.50	21.45
		815.5	22.42	21.49	20.45
	15RB (0)	847.5	22.44	21.35	21.34
		831.5	22.52	21.43	21.44

5 MHz	1RB High (24)	815.5	22.47	21.41	20.45
		846.5	23.29	22.64	22.60
		831.5	23.41	22.79	22.66
		816.5	23.43	22.79	22.58
	1RB Middle (12)	846.5	23.23	22.72	22.55
		831.5	23.41	22.80	22.65
		816.5	23.50	22.61	22.80
	1RB Low (0)	846.5	23.38	22.75	22.55
		831.5	23.44	22.81	22.59
		816.5	23.57	22.93	22.77
	12RB High (13)	846.5	22.34	21.35	21.32
		831.5	22.58	21.55	21.57
		816.5	22.60	21.57	21.55
	12RB Middle (6)	846.5	22.39	21.36	21.37
		831.5	22.50	21.52	21.49
		816.5	22.63	21.60	21.61
	12RB Low (0)	846.5	22.38	21.43	21.42
		831.5	22.49	21.55	21.54
		816.5	22.62	21.59	21.64
	25RB (0)	846.5	22.39	21.39	21.36
		831.5	22.50	21.50	21.56
		816.5	22.55	21.56	21.62
10 MHz	1RB High (49)	844	23.21	22.64	22.37
		831.5	23.44	22.75	22.52
		820	23.44	22.61	22.69
	1RB Middle (24)	844	23.35	22.58	22.38
		831.5	23.46	22.75	22.66
		820	23.46	22.66	22.55
	1RB Low (0)	844	23.32	22.63	22.59
		831.5	23.35	22.77	22.71
		820	23.34	22.85	22.71
	25RB High (25)	844	22.30	21.37	21.43
		831.5	22.44	21.52	21.56
		820	22.55	21.54	21.52
	25RB Middle (12)	844	22.27	21.39	21.39
		831.5	22.50	21.55	21.50
		820	22.57	21.63	21.58
	25RB Low (0)	844	22.41	21.32	21.41
		831.5	22.48	21.51	21.54
		820	22.51	21.49	21.43
	50RB (0)	844	22.27	21.30	21.27
		831.5	22.48	21.45	21.50
		820	22.51	21.62	21.53
15 MHz	1RB High (74)	841.5	23.12	22.36	22.11
		831.5	23.17	22.61	22.45
		822.5	23.30	22.45	22.32
	1RB Middle	1907.5	23.22	22.48	22.34
		1882.5	23.17	22.70	22.38

	(37)	1857.5	23.26	22.63	22.34
	1RB Low (0)	1907.5	23.27	22.53	22.35
		1882.5	23.31	22.66	22.40
		1857.5	23.32	22.63	22.45
	36RB High (38)	1907.5	22.28	21.21	21.28
		1882.5	22.36	21.43	21.42
		1857.5	22.38	21.33	21.46
	36RB Middle (19)	1907.5	22.26	21.28	21.31
		1882.5	22.29	21.34	21.25
		1857.5	22.36	21.42	21.36
	36RB Low (0)	1907.5	22.33	21.29	21.30
		1882.5	22.34	21.41	21.36
		1857.5	22.33	21.33	21.36
	75RB (0)	1907.5	22.29	21.32	21.29
		1882.5	22.24	21.39	21.35
		1857.5	22.38	21.34	21.44

Power Level B2/C2

Band 26					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	23.47	22.89	22.67
		831.5	23.56	22.92	22.65
		814.7	23.73	22.96	22.87
	1RB Middle (3)	848.3	23.50	22.91	22.76
		831.5	23.63	22.92	22.77
		814.7	23.78	23.13	22.93
	1RB Low (0)	848.3	23.46	22.80	22.67
		831.5	23.56	22.81	22.66
		814.7	23.69	23.04	22.87
	3RB High (3)	848.3	23.51	22.56	22.56
		831.5	23.58	22.61	22.71
		814.7	23.70	22.71	22.78
	3RB Middle (1)	848.3	23.53	22.65	22.63
		831.5	23.63	22.66	22.73
		814.7	23.78	22.79	22.83
	3RB Low (0)	848.3	23.52	22.61	22.64
		831.5	23.53	22.64	22.71
		814.7	23.69	22.85	22.80
	6RB (0)	848.3	22.58	21.68	21.59
		831.5	22.64	21.67	21.69
		814.7	22.78	21.83	21.81
3 MHz	1RB High (14)	847.5	23.54	22.83	22.82
		831.5	23.68	23.00	22.85
		815.5	23.67	22.87	21.82
	1RB Middle (7)	847.5	23.50	22.82	22.72
		831.5	23.61	22.98	22.87
		815.5	23.68	22.91	21.85
	1RB Low (0)	847.5	23.61	22.84	22.78
		831.5	23.60	22.82	22.69
		815.5	23.61	22.83	21.83
	8RB High (7)	847.5	22.60	21.71	21.73
		831.5	22.76	21.81	21.71
		815.5	22.75	21.82	20.71
	8RB Middle (4)	847.5	22.66	21.74	21.71
		831.5	22.75	21.78	21.75
		815.5	22.76	22.66	20.81
	8RB Low (0)	847.5	22.64	21.74	21.71
		831.5	22.61	21.79	21.74
		815.5	22.66	21.76	20.73
	15RB (0)	847.5	22.68	21.68	21.63
		831.5	22.73	21.80	21.77

5 MHz	1RB High (24)	815.5	22.73	21.78	20.76
		846.5	23.52	22.96	22.96
		831.5	23.61	23.00	22.90
		816.5	23.77	23.12	22.97
	1RB Middle (12)	846.5	23.62	23.03	22.93
		831.5	23.65	22.97	22.89
		816.5	23.72	23.03	22.97
	1RB Low (0)	846.5	23.59	23.01	22.94
		831.5	23.61	23.04	22.89
		816.5	23.89	23.24	22.89
	12RB High (13)	846.5	22.67	21.74	21.59
		831.5	22.76	21.74	21.78
		816.5	22.81	21.82	21.85
	12RB Middle (6)	846.5	22.67	21.74	21.73
		831.5	22.67	21.70	21.70
		816.5	22.85	21.90	21.84
	12RB Low (0)	846.5	22.69	21.75	21.74
		831.5	22.66	21.71	21.69
		816.5	22.84	21.91	21.94
	25RB (0)	846.5	22.65	21.75	21.67
		831.5	22.71	21.73	21.79
		816.5	22.88	21.89	21.90
10 MHz	1RB High (49)	844	23.40	23.03	22.72
		831.5	23.67	22.88	22.81
		820	23.43	22.94	22.83
	1RB Middle (24)	844	23.64	22.60	22.84
		831.5	23.96	22.99	22.95
		820	23.93	23.02	22.86
	1RB Low (0)	844	23.60	23.16	22.91
		831.5	23.94	23.11	22.89
		820	24.00	23.17	22.93
	25RB High (25)	844	22.65	21.71	21.74
		831.5	22.73	21.83	21.74
		820	22.78	21.83	21.90
	25RB Middle (12)	844	22.64	21.73	21.73
		831.5	22.75	21.72	21.66
		820	22.84	21.92	21.83
	25RB Low (0)	844	22.74	21.75	21.73
		831.5	22.82	21.82	21.72
		820	22.89	21.93	21.92
	50RB (0)	844	22.71	21.78	21.61
		831.5	22.72	21.82	21.74
		820	22.89	21.92	21.87
15 MHz	1RB High (74)	841.5	23.31	22.43	22.31
		831.5	23.37	22.70	22.55
		822.5	23.35	22.69	22.49
	1RB Middle	1907.5	23.34	22.68	22.39
		1882.5	23.45	22.77	22.59

	(37)	1857.5	23.33	22.69	22.62
	1RB Low (0)	1907.5	23.48	22.66	22.63
		1882.5	23.42	22.69	22.70
		1857.5	23.56	22.76	22.55
	36RB High (38)	1907.5	22.46	21.38	21.35
		1882.5	22.54	21.60	21.53
		1857.5	22.55	21.52	21.54
	36RB Middle (19)	1907.5	22.43	21.43	21.50
		1882.5	22.44	21.46	21.49
		1857.5	22.57	21.52	21.58
	36RB Low (0)	1907.5	22.41	21.45	21.36
		1882.5	22.53	21.54	21.43
		1857.5	22.48	21.50	21.50
	75RB (0)	1907.5	22.42	21.39	21.40
		1882.5	22.45	21.43	21.47
		1857.5	22.57	21.54	21.54

Power Level D2

Band 26					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	21.51	21.22	21.21
		831.5	21.04	21.59	21.23
		814.7	21.20	21.61	21.44
	1RB Middle (3)	848.3	21.56	21.32	21.31
		831.5	21.14	21.48	21.18
		814.7	21.27	21.60	21.46
	1RB Low (0)	848.3	21.47	21.28	21.19
		831.5	21.06	21.43	21.13
		814.7	21.13	21.61	21.37
	3RB High (3)	848.3	21.05	21.14	21.09
		831.5	21.07	21.17	21.27
		814.7	21.15	21.33	21.35
	3RB Middle (1)	848.3	21.08	21.03	21.11
		831.5	21.15	21.22	21.17
		814.7	21.22	21.45	21.41
	3RB Low (0)	848.3	21.05	21.13	21.01
		831.5	21.07	21.04	21.14
		814.7	21.16	21.37	21.29
	6RB (0)	848.3	21.12	21.13	21.08
		831.5	21.18	21.26	21.25
		814.7	21.29	21.36	21.29
3 MHz	1RB High (14)	847.5	21.08	21.31	21.45
		831.5	21.20	21.56	21.36
		815.5	21.14	21.35	21.64
	1RB Middle (7)	847.5	21.08	21.32	21.19
		831.5	21.13	21.45	21.35
		815.5	21.06	21.37	21.84
	1RB Low (0)	847.5	21.16	21.46	21.31
		831.5	21.11	21.43	21.36
		815.5	21.08	21.50	21.57
	8RB High (7)	847.5	21.15	21.22	21.12
		831.5	21.21	21.26	21.28
		815.5	21.17	21.27	20.82
	8RB Middle (4)	847.5	21.18	21.25	21.15
		831.5	21.29	21.35	21.28
		815.5	21.22	21.29	20.81
	8RB Low (0)	847.5	21.19	21.16	21.20
		831.5	21.19	21.28	21.26
		815.5	21.17	21.30	20.78
	15RB (0)	847.5	21.22	21.24	21.14
		831.5	21.29	21.26	21.28

5 MHz	1RB High (24)	815.5	21.24	21.24	20.75
		846.5	21.10	21.32	21.37
		831.5	21.10	21.40	21.30
		816.5	21.26	21.64	21.49
	1RB Middle (12)	846.5	21.15	21.41	21.29
		831.5	21.09	21.46	21.43
		816.5	21.20	21.60	21.47
	1RB Low (0)	846.5	21.14	21.49	21.36
		831.5	21.15	21.63	21.32
		816.5	21.38	21.67	21.59
	12RB High (13)	846.5	21.21	21.16	21.12
		831.5	21.20	21.22	21.21
		816.5	21.36	21.38	21.34
	12RB Middle (6)	846.5	21.24	21.27	21.20
		831.5	21.18	21.21	21.24
		816.5	21.39	21.35	21.43
	12RB Low (0)	846.5	21.24	21.18	21.15
		831.5	21.20	21.23	21.21
		816.5	21.39	21.43	21.44
	25RB (0)	846.5	21.25	21.18	21.13
		831.5	21.24	21.25	21.32
		816.5	21.38	21.39	21.38
10 MHz	1RB High (49)	844	21.03	21.19	21.20
		831.5	21.05	21.36	21.29
		820	21.11	21.46	21.47
	1RB Middle (24)	844	21.12	21.33	21.37
		831.5	21.43	21.41	21.32
		820	21.11	21.50	21.34
	1RB Low (0)	844	21.27	21.48	21.25
		831.5	21.10	21.56	21.47
		820	21.22	21.58	21.40
	25RB High (25)	844	21.22	21.21	21.22
		831.5	21.28	21.29	21.23
		820	21.33	21.23	21.24
	25RB Middle (12)	844	21.20	21.20	21.19
		831.5	21.14	21.24	21.26
		820	21.36	21.40	21.34
	25RB Low (0)	844	21.15	21.19	21.19
		831.5	21.20	21.21	21.12
		820	21.34	21.41	21.44
	50RB (0)	844	21.16	21.13	21.22
		831.5	21.31	21.32	21.25
		820	21.32	21.39	21.40
15 MHz	1RB High (74)	841.5	20.95	21.25	21.01
		831.5	20.93	21.26	21.26
		822.5	20.89	21.40	21.43
	1RB Middle	1907.5	20.98	21.38	21.18
		1882.5	21.02	21.36	21.27

	(37)	1857.5	21.14	21.34	21.34
	1RB Low (0)	1907.5	21.11	21.44	21.38
		1882.5	21.13	21.34	21.33
		1857.5	21.18	21.57	21.38
	36RB High (38)	1907.5	21.04	21.10	21.18
		1882.5	21.17	21.16	21.11
		1857.5	21.23	21.24	21.21
	36RB Middle (19)	1907.5	21.06	21.09	21.03
		1882.5	21.05	20.98	21.07
		1857.5	21.24	21.26	21.27
	36RB Low (0)	1907.5	21.12	21.08	21.06
		1882.5	21.09	21.16	21.10
		1857.5	21.15	21.16	21.17
	75RB (0)	1907.5	21.00	21.04	21.02
		1882.5	21.18	21.22	21.21
		1857.5	21.18	21.20	21.19

Power Level A2/D2

Band 41					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2687.5	16.25	16.38	16.11
		2640.3	16.18	16.38	15.98
		2593	16.31	16.37	16.09
		2545.8	16.29	16.46	16.06
		2498.5	16.31	16.43	16.14
	1RB Middle (12)	2687.5	16.20	16.42	15.99
		2640.3	16.18	16.37	15.85
		2593	16.27	16.40	16.02
		2545.8	16.25	16.44	15.93
		2498.5	16.31	16.34	16.00
	1RB Low (0)	2687.5	16.20	16.34	16.09
		2640.3	16.14	16.30	15.76
		2593	16.32	16.39	15.95
		2545.8	16.24	16.38	15.95
		2498.5	16.32	16.49	16.03
	12RB High (13)	2687.5	16.22	16.17	16.28
		2640.3	16.17	16.14	16.24
		2593	16.28	16.29	16.35
		2545.8	16.30	16.23	16.34
		2498.5	16.32	16.27	16.41
	12RB Middle (6)	2687.5	16.30	16.25	16.37
		2640.3	16.22	16.16	16.24
		2593	16.32	16.33	16.42
		2545.8	16.33	16.30	16.41
		2498.5	16.36	16.31	16.42
	12RB Low (0)	2687.5	16.23	16.20	16.33
		2640.3	16.18	16.18	16.28
		2593	16.32	16.31	16.44
		2545.8	16.27	16.24	16.37
		2498.5	16.33	16.29	16.39
	25RB (0)	2687.5	16.24	16.22	16.21
		2640.3	16.14	16.22	16.28
		2593	16.33	16.33	16.43
		2545.8	16.29	16.30	16.39
		2498.5	16.31	16.32	16.41

10 MHz	1RB High (49)	2685	16.17	16.22	15.91
		2639	16.13	16.15	15.96
		2593	16.21	16.25	16.07
		2547	16.25	16.23	15.99
		2501	16.29	16.30	16.25
	1RB Middle (24)	2685	16.23	16.32	16.12
		2639	16.17	16.16	16.04
		2593	16.29	16.34	15.92
		2547	16.32	16.28	16.04
		2501	16.31	16.27	15.97
	1RB Low (0)	2685	16.35	16.36	16.08
		2639	16.18	16.25	15.99
		2593	16.39	16.44	16.02
		2547	16.31	16.35	16.10
		2501	16.36	16.33	16.10
	25RB High (25)	2685	16.25	16.29	16.24
		2639	16.18	16.17	16.18
		2593	16.27	16.34	16.46
		2547	16.32	16.34	16.42
		2501	16.29	16.34	16.41
	25RB Middle (12)	2685	16.18	16.32	16.19
		2639	16.10	16.24	16.19
		2593	16.33	16.37	16.48
		2547	16.28	16.38	16.46
		2501	16.31	16.34	16.46
	25RB Low (0)	2685	16.11	16.18	16.09
		2639	16.14	16.16	16.15
		2593	16.30	16.39	16.41
		2547	16.23	16.26	16.40
		2501	16.34	16.34	16.42
	50RB (0)	2685	16.22	16.27	16.22
		2639	16.19	16.27	16.12
		2593	16.32	16.41	16.42
		2547	16.31	16.36	16.38
		2501	16.29	16.41	16.40
15 MHz	1RB High (74)	2682.5	16.05	16.19	16.07
		2637.8	15.98	16.10	15.87
		2593	16.07	16.22	16.03
		2548.3	16.19	16.22	16.08
		2503.5	16.06	16.17	16.02
	1RB	2682.5	15.99	16.18	16.05

	Middle (37)	2637.8	15.94	16.06	15.84
		2593	16.08	16.20	15.97
		2548.3	16.03	16.20	16.04
		2503.5	16.02	16.10	16.00
	1RB Low (0)	2682.5	16.11	16.34	16.17
		2637.8	16.02	16.23	16.00
		2593	16.23	16.36	16.08
		2548.3	16.12	16.31	16.17
		2503.5	16.07	16.16	16.04
	36RB High (38)	2682.5	16.13	16.18	16.09
		2637.8	16.08	16.07	16.08
		2593	16.15	16.21	16.16
		2548.3	16.18	16.21	16.18
		2503.5	16.18	16.16	16.18
	36RB Middle (19)	2682.5	16.14	16.16	16.11
		2637.8	16.00	16.06	16.02
		2593	16.19	16.21	16.25
		2548.3	16.10	16.12	16.07
		2503.5	16.16	16.16	16.16
	36RB Low (0)	2682.5	16.10	16.17	16.14
		2637.8	16.07	16.08	16.11
		2593	16.25	16.24	16.27
		2548.3	16.10	16.09	16.10
		2503.5	16.17	16.18	16.18
	75RB (0)	2682.5	16.14	16.16	16.20
		2637.8	16.03	16.11	16.08
		2593	16.18	16.26	16.23
		2548.3	16.06	16.14	16.14
		2503.5	16.20	16.21	16.19
20 MHz	1RB High (99)	2680	16.03	16.17	16.09
		2636.5	15.96	16.09	15.87
		2593	16.05	16.22	16.11
		2549.5	16.14	16.21	16.01
		2506	16.04	16.16	15.96
	1RB Middle (50)	2680	16.01	16.20	16.03
		2636.5	15.92	16.03	15.78
		2593	16.03	16.17	16.02
		2549.5	16.02	16.14	15.99
		2506	16.02	16.11	15.94
	1RB Low (0)	2680	16.19	16.33	16.12
		2636.5	16.13	16.28	16.11
		2593	16.28	16.39	16.19

		2549.5	16.05	16.24	16.08
		2506	16.17	16.23	16.05
	50RB High (50)	2680	16.13	16.19	16.11
		2636.5	16.01	16.09	16.00
		2593	16.15	16.21	16.13
		2549.5	16.15	16.25	16.18
		2506	16.14	16.24	16.16
	50RB Middle (25)	2680	16.09	16.11	16.11
		2636.5	16.10	16.12	16.08
		2593	16.20	16.25	16.16
		2549.5	16.12	16.17	16.06
		2506	16.21	16.24	16.13
	50RB Low (0)	2680	16.13	16.17	16.13
		2636.5	16.11	16.16	16.09
		2593	16.28	16.28	16.26
		2549.5	16.14	16.18	16.14
		2506	16.20	16.22	16.20
	100RB (0)	2680	16.12	16.16	16.16
		2636.5	16.08	16.13	16.17
		2593	16.18	16.25	16.26
		2549.5	16.11	16.17	16.18
		2506	16.19	16.22	16.24

Power Level B2

Band 41					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2687.5	23.39	22.38	22.21
		2640.3	23.24	22.29	22.09
		2593	23.47	22.44	22.25
		2545.8	23.44	22.47	22.27
		2498.5	23.42	22.47	22.25
	1RB Middle (12)	2687.5	23.33	22.34	22.22
		2640.3	23.32	22.29	22.08
		2593	23.39	22.51	22.25
		2545.8	23.38	22.39	22.30
		2498.5	23.38	22.46	22.31
	1RB Low (0)	2687.5	23.34	22.32	22.18
		2640.3	23.24	22.27	22.10
		2593	23.46	22.45	22.18
		2545.8	23.37	22.39	22.17
		2498.5	23.42	22.48	22.25
	12RB High (13)	2687.5	22.30	21.25	21.31
		2640.3	22.21	21.19	21.22
		2593	22.35	21.33	21.38
		2545.8	22.31	21.23	21.31
		2498.5	22.38	21.37	21.37
	12RB Middle (6)	2687.5	22.36	21.30	21.36
		2640.3	22.25	21.22	21.31
		2593	22.38	21.37	21.44
		2545.8	22.36	21.33	21.38
		2498.5	22.41	21.42	21.45
	12RB Low (0)	2687.5	22.33	21.27	21.31
		2640.3	22.21	21.25	21.26
		2593	22.36	21.37	21.43
		2545.8	22.33	21.30	21.34
		2498.5	22.39	21.36	21.41
	25RB (0)	2687.5	22.28	21.30	21.27
		2640.3	22.23	21.25	21.22
		2593	22.33	21.37	21.31
		2545.8	22.34	21.37	21.27
		2498.5	22.40	21.40	21.28

10 MHz	1RB High (49)	2685	23.07	22.28	21.97
		2639	23.00	22.25	21.92
		2593	23.16	22.32	22.02
		2547	23.21	22.38	22.06
		2501	23.22	22.41	22.07
	1RB Middle (24)	2685	23.18	22.35	22.10
		2639	23.08	22.29	22.03
		2593	23.22	22.37	22.19
		2547	23.23	22.34	22.20
		2501	23.16	22.38	22.13
	1RB Low (0)	2685	23.25	22.47	22.13
		2639	23.17	22.36	21.98
		2593	23.28	22.54	22.20
		2547	23.21	22.44	22.15
		2501	23.31	22.45	22.17
	25RB High (25)	2685	22.30	21.26	21.26
		2639	22.20	21.21	21.19
		2593	22.33	21.34	21.34
		2547	22.36	21.33	21.35
		2501	22.34	21.33	21.31
	25RB Middle (12)	2685	22.24	21.27	21.26
		2639	22.21	21.27	21.24
		2593	22.35	21.43	21.35
		2547	22.35	21.46	21.40
		2501	22.38	21.40	21.41
	25RB Low (0)	2685	22.25	21.24	21.22
		2639	22.18	21.22	21.24
		2593	22.36	21.39	21.37
		2547	22.29	21.40	21.33
		2501	22.35	21.40	21.37
	50RB (0)	2685	22.26	21.38	21.25
		2639	22.22	21.33	21.21
		2593	22.40	21.49	21.37
		2547	22.35	21.40	21.31
		2501	22.34	21.44	21.34
15 MHz	1RB High (74)	2682.5	23.01	22.28	22.05
		2637.8	22.93	22.20	22.06
		2593	23.06	22.29	22.17
		2548.3	23.10	22.39	22.16
		2503.5	23.04	22.32	22.14
	1RB	2682.5	22.98	22.29	22.06

	Middle (37)	2637.8	22.86	22.20	22.05
		2593	23.03	22.32	22.15
		2548.3	22.99	22.31	22.12
		2503.5	22.98	22.29	22.12
	1RB Low (0)	2682.5	23.10	22.39	22.23
		2637.8	22.99	22.29	22.12
		2593	23.18	22.51	22.33
		2548.3	23.09	22.36	22.18
		2503.5	23.06	22.35	22.27
	36RB High (38)	2682.5	22.15	21.17	21.16
		2637.8	22.08	21.10	21.08
		2593	22.22	21.27	21.20
		2548.3	22.24	21.28	21.19
		2503.5	22.25	21.21	21.17
	36RB Middle (19)	2682.5	22.18	21.21	21.16
		2637.8	22.05	21.11	21.13
		2593	22.24	21.29	21.28
		2548.3	22.15	21.15	21.14
		2503.5	22.21	21.25	21.20
	36RB Low (0)	2682.5	22.14	21.15	21.17
		2637.8	22.08	21.12	21.11
		2593	22.29	21.30	21.30
		2548.3	22.14	21.20	21.20
		2503.5	22.23	21.24	21.23
	75RB (0)	2682.5	22.21	21.27	21.22
		2637.8	22.11	21.15	21.12
		2593	22.25	21.31	21.26
		2548.3	22.13	21.18	21.16
		2503.5	22.22	21.31	21.26
20 MHz	1RB High (99)	2680	23.08	22.50	22.42
		2636.5	22.99	22.47	22.41
		2593	23.15	22.62	22.45
		2549.5	22.97	22.47	22.39
		2506	22.92	22.40	22.38
	1RB Middle (50)	2680	23.02	22.40	22.39
		2636.5	22.96	22.42	22.38
		2593	23.05	22.49	22.47
		2549.5	22.97	22.36	22.39
		2506	22.95	22.40	22.33
	1RB Low (0)	2680	23.18	22.60	22.46
		2636.5	23.16	22.61	22.37
		2593	23.27	22.71	22.49

		2549.5	22.98	22.44	22.41
		2506	22.99	22.43	22.39
	50RB High (50)	2680	22.23	21.32	21.23
		2636.5	22.16	21.27	21.18
		2593	22.32	21.36	21.28
		2549.5	22.20	21.25	21.19
		2506	22.22	21.27	21.18
	50RB Middle (25)	2680	22.31	21.35	21.29
		2636.5	22.21	21.31	21.23
		2593	22.37	21.40	21.38
		2549.5	22.24	21.26	21.20
		2506	22.21	21.30	21.22
	50RB Low (0)	2680	22.23	21.31	21.22
		2636.5	22.26	21.35	21.24
		2593	22.40	21.42	21.37
		2549.5	22.20	21.27	21.17
		2506	22.22	21.28	21.21
	100RB (0)	2680	22.28	21.35	21.35
		2636.5	22.26	21.30	21.29
		2593	22.36	21.41	21.42
		2549.5	22.26	21.25	21.27
		2506	22.22	21.28	21.31

Power Level C2

Band 41					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2687.5	22.90	22.42	22.24
		2640.3	22.90	22.37	22.22
		2593	22.81	22.45	22.28
		2545.8	22.97	22.50	22.30
		2498.5	22.87	22.48	22.29
	1RB Middle (12)	2687.5	22.92	22.41	22.27
		2640.3	22.83	22.32	22.16
		2593	22.94	22.42	22.31
		2545.8	22.90	22.41	22.31
		2498.5	22.92	22.43	22.26
	1RB Low (0)	2687.5	22.91	22.38	22.24
		2640.3	22.86	22.37	22.12
		2593	22.98	22.51	22.24
		2545.8	22.91	22.42	22.22
		2498.5	22.94	22.50	22.29
	12RB High (13)	2687.5	22.32	21.30	21.36
		2640.3	22.28	21.26	21.31
		2593	22.41	21.35	21.43
		2545.8	22.36	21.34	21.38
		2498.5	22.42	21.40	21.42
	12RB Middle (6)	2687.5	22.37	21.35	21.40
		2640.3	22.29	21.30	21.29
		2593	22.43	21.40	21.51
		2545.8	22.38	21.39	21.42
		2498.5	22.43	21.41	21.43
	12RB Low (0)	2687.5	22.33	21.33	21.40
		2640.3	22.30	21.22	21.29
		2593	22.37	21.43	21.44
		2545.8	22.33	21.31	21.42
		2498.5	22.42	21.39	21.43
	25RB (0)	2687.5	22.33	21.35	21.29
		2640.3	22.27	21.30	21.23
		2593	22.38	21.40	21.36
		2545.8	22.33	21.43	21.36
		2498.5	22.41	21.42	21.39

10 MHz	1RB High (49)	2685	22.70	22.33	21.03
		2639	22.58	22.25	21.16
		2593	22.71	22.36	21.35
		2547	22.68	22.40	21.33
		2501	22.70	22.42	21.30
	1RB Middle (24)	2685	22.74	22.44	21.37
		2639	22.55	22.29	21.23
		2593	22.76	22.46	21.38
		2547	22.68	22.37	21.38
		2501	22.76	22.38	21.26
	1RB Low (0)	2685	22.73	22.47	21.38
		2639	22.69	22.42	21.26
		2593	22.88	22.51	21.46
		2547	22.82	22.48	21.43
		2501	22.75	22.45	21.35
	25RB High (25)	2685	22.30	21.37	21.46
		2639	22.22	21.26	21.42
		2593	22.37	21.40	21.50
		2547	22.35	21.40	21.50
		2501	22.32	21.44	21.47
	25RB Middle (12)	2685	22.29	21.33	21.42
		2639	22.24	21.35	21.39
		2593	22.41	21.47	21.53
		2547	22.36	21.43	21.48
		2501	22.38	21.44	21.50
	25RB Low (0)	2685	22.27	21.34	21.40
		2639	22.25	21.27	21.36
		2593	22.42	21.44	21.55
		2547	22.37	21.33	21.47
		2501	22.35	21.29	21.50
	50RB (0)	2685	22.28	21.39	21.39
		2639	22.24	21.37	21.38
		2593	22.43	21.48	21.47
		2547	22.38	21.45	21.46
		2501	22.40	21.46	21.47
15 MHz	1RB High (74)	2682.5	22.55	22.28	22.10
		2637.8	22.50	22.25	22.10
		2593	22.59	22.35	22.18
		2548.3	22.58	22.39	22.21
		2503.5	22.65	22.31	22.18
	1RB	2682.5	22.48	22.33	22.06

	Middle (37)	2637.8	22.41	22.23	22.00
		2593	22.60	22.33	22.13
		2548.3	22.50	22.31	22.11
		2503.5	22.52	22.35	22.15
	1RB Low (0)	2682.5	22.67	22.41	22.27
		2637.8	22.58	22.33	22.15
		2593	22.71	22.51	22.34
		2548.3	22.61	22.39	22.22
		2503.5	22.55	22.38	22.17
	36RB High (38)	2682.5	22.20	21.24	21.19
		2637.8	22.18	21.15	21.18
		2593	22.24	21.23	21.28
		2548.3	22.27	21.29	21.30
		2503.5	22.24	21.25	21.23
	36RB Middle (19)	2682.5	22.22	21.23	21.25
		2637.8	22.11	21.13	21.16
		2593	22.28	21.26	21.25
		2548.3	22.21	21.22	21.16
		2503.5	22.24	21.25	21.23
	36RB Low (0)	2682.5	22.22	21.18	21.22
		2637.8	22.16	21.18	21.14
		2593	22.32	21.34	21.30
		2548.3	22.18	21.20	21.19
		2503.5	22.23	21.20	21.26
	75RB (0)	2682.5	22.23	21.30	21.24
		2637.8	22.12	21.20	21.18
		2593	22.30	21.37	21.31
		2548.3	22.19	21.25	21.20
		2503.5	22.21	21.29	21.31
20 MHz	1RB High (99)	2680	22.62	22.34	22.11
		2636.5	22.51	22.29	22.08
		2593	22.59	22.34	22.19
		2549.5	22.61	22.39	22.18
		2506	22.53	22.32	22.18
	1RB Middle (50)	2680	22.56	22.34	22.14
		2636.5	22.47	22.28	22.01
		2593	22.50	22.30	22.18
		2549.5	22.55	22.35	22.16
		2506	22.52	22.33	22.13
	1RB Low (0)	2680	22.72	22.52	22.31
		2636.5	22.63	22.40	22.20
		2593	22.79	22.58	22.40

		2549.5	22.61	22.33	22.13
		2506	22.62	22.38	22.28
	50RB High (50)	2680	22.28	21.26	21.22
		2636.5	22.18	21.19	21.15
		2593	22.28	21.32	21.27
		2549.5	22.32	21.32	21.24
		2506	22.27	21.27	21.22
	50RB Middle (25)	2680	22.21	21.28	21.17
		2636.5	22.20	21.23	21.17
		2593	22.34	21.37	21.30
		2549.5	22.22	21.28	21.22
		2506	22.29	21.32	21.29
	50RB Low (0)	2680	22.26	21.33	21.21
		2636.5	22.19	21.28	21.23
		2593	22.39	21.44	21.37
		2549.5	22.23	21.30	21.20
		2506	22.28	21.34	21.28
	100RB (0)	2680	22.24	21.27	21.25
		2636.5	22.23	21.26	21.22
		2593	22.32	21.35	21.37
		2549.5	22.20	21.26	21.29
		2506	22.28	21.34	21.36

Power Level A1/D1

Band 66					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1779.3	12.48	12.78	12.76
		1745	12.45	12.75	12.58
		1710.7	12.69	13.14	12.88
	1RB Middle (3)	1779.3	12.49	12.89	12.74
		1745	12.52	12.82	12.81
		1710.7	12.72	13.07	12.95
	1RB Low (0)	1779.3	12.43	12.78	12.69
		1745	12.51	12.76	12.69
		1710.7	12.66	12.91	12.90
	3RB High (3)	1779.3	12.43	12.55	12.58
		1745	12.49	12.47	12.66
		1710.7	12.68	12.86	12.83
	3RB Middle (1)	1779.3	12.53	12.63	12.66
		1745	12.53	12.52	12.64
		1710.7	12.76	12.84	12.83
	3RB Low (0)	1779.3	12.43	12.51	12.54
		1745	12.49	12.55	12.68
		1710.7	12.70	12.73	12.79
	6RB (0)	1779.3	12.50	12.60	12.53
		1745	12.53	12.66	12.55
		1710.7	12.79	12.84	12.75
3 MHz	1RB High (14)	1778.5	12.52	12.84	12.78
		1745	12.66	12.83	12.71
		1711.5	12.79	13.07	13.00
	1RB Middle (7)	1778.5	12.71	12.95	12.73
		1745	12.71	12.74	12.72
		1711.5	12.68	13.12	12.79
	1RB Low (0)	1778.5	12.53	12.80	12.84
		1745	12.53	12.92	12.79
		1711.5	12.76	13.12	13.03
	8RB High (7)	1778.5	12.61	12.75	12.70
		1745	12.60	12.66	12.65
		1711.5	12.81	12.93	12.91
	8RB Middle (4)	1778.5	12.61	12.72	12.71
		1745	12.63	12.72	12.71
		1711.5	12.84	13.00	12.93
	8RB Low (0)	1778.5	12.57	12.75	12.63
		1745	12.63	12.73	12.68
		1711.5	12.82	12.89	12.82
	15RB	1778.5	12.60	12.69	12.66

	(0)	1745	12.63	12.69	12.63
		1711.5	12.83	12.92	12.88
5 MHz	1RB High (24)	1777.5	12.56	12.93	12.82
		1745	12.59	12.82	12.77
		1712.5	12.76	13.12	13.08
	1RB Middle (12)	1777.5	12.76	12.98	12.70
		1745	12.56	12.92	12.72
		1712.5	12.68	13.10	12.95
	1RB Low (0)	1777.5	12.56	13.00	12.78
		1745	12.58	12.84	12.91
		1712.5	12.80	13.13	13.06
	12RB High (13)	1777.5	12.67	12.71	12.69
		1745	12.64	12.65	12.67
		1712.5	12.79	12.87	12.84
	12RB Middle (6)	1777.5	12.67	12.72	12.71
		1745	12.66	12.70	12.68
		1712.5	12.87	12.86	12.86
	12RB Low (0)	1777.5	12.72	12.66	12.66
		1745	12.69	12.70	12.61
		1712.5	12.85	12.89	12.91
	25RB (0)	1777.5	12.63	12.68	12.68
		1745	12.67	12.69	12.69
		1712.5	12.88	12.88	12.87
10 MHz	1RB High (49)	1775	12.55	12.90	12.82
		1745	12.45	12.94	12.76
		1715	12.57	13.05	12.90
	1RB Middle (24)	1775	12.60	12.82	12.78
		1745	12.52	12.70	12.65
		1715	12.95	13.00	12.84
	1RB Low (0)	1775	12.61	12.93	12.81
		1745	12.61	12.93	12.72
		1715	12.65	13.06	13.02
	25RB High (25)	1775	12.68	12.71	12.72
		1745	12.65	12.60	12.67
		1715	12.78	12.85	12.84
	25RB Middle (12)	1775	12.66	12.69	12.69
		1745	12.71	12.73	12.74
		1715	12.83	12.89	12.88
	25RB Low (0)	1775	12.59	12.64	12.63
		1745	12.70	12.74	12.64
		1715	12.87	12.94	12.86
	50RB (0)	1775	12.64	12.68	12.56
		1745	12.67	12.71	12.68
		1715	12.92	12.82	12.91
15 MHz	1RB High (74)	1772.5	12.45	12.82	12.61
		1745	12.47	12.81	12.71
		1717.5	12.59	12.89	12.80
	1RB	1772.5	12.48	12.74	12.68

	Middle (37)	1745	12.44	12.73	12.69
		1717.5	12.62	12.92	12.79
	1RB Low (0)	1772.5	12.43	12.77	12.68
		1745	12.44	12.80	12.70
		1717.5	12.57	12.91	12.83
	36RB High (38)	1772.5	12.56	12.61	12.52
		1745	12.52	12.57	12.54
		1717.5	12.56	12.70	12.64
	36RB Middle (19)	1772.5	12.51	12.57	12.55
		1745	12.60	12.57	12.54
		1717.5	12.66	12.71	12.72
	36RB Low (0)	1772.5	12.39	12.43	12.45
		1745	12.53	12.48	12.48
		1717.5	12.70	12.76	12.76
	75RB (0)	1772.5	12.53	12.57	12.59
		1745	12.49	12.62	12.51
		1717.5	12.64	12.76	12.67
20 MHz	1RB High (99)	1770	12.61	12.88	12.74
		1745	12.57	12.84	12.76
		1720	12.60	13.04	12.82
	1RB Middle (50)	1770	12.61	12.89	12.80
		1745	12.63	12.87	12.71
		1720	12.70	13.00	12.82
	1RB Low (0)	1770	12.61	12.96	12.82
		1745	12.65	12.97	12.77
		1720	12.79	13.01	12.93
	50RB High (50)	1770	12.77	12.69	12.75
		1745	12.67	12.66	12.72
		1720	12.83	12.73	12.77
	50RB Middle (25)	1770	12.63	12.60	12.65
		1745	12.78	12.65	12.72
		1720	12.84	12.87	12.73
	50RB Low (0)	1770	12.60	12.69	12.58
		1745	12.60	12.69	12.57
		1720	12.85	12.81	12.84
	100RB (0)	1770	12.65	12.60	12.59
		1745	12.74	12.71	12.67
		1720	12.79	12.81	12.68

Power Level B2

Band 66					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1779.3	23.07	22.42	22.14
		1745	23.11	22.40	22.32
		1710.7	23.26	22.68	22.50
	1RB Middle (3)	1779.3	23.17	22.33	22.34
		1745	23.16	22.64	22.38
		1710.7	23.35	22.74	22.40
	1RB Low (0)	1779.3	23.03	22.42	22.36
		1745	23.11	22.32	22.31
		1710.7	23.33	22.70	22.40
	3RB High (3)	1779.3	23.15	22.24	22.20
		1745	23.10	22.23	22.22
		1710.7	23.35	22.38	22.42
	3RB Middle (1)	1779.3	23.16	22.23	22.26
		1745	23.22	22.20	22.22
		1710.7	23.37	22.45	22.49
	3RB Low (0)	1779.3	23.16	22.17	22.26
		1745	23.15	22.18	22.18
		1710.7	23.36	22.47	22.37
	6RB (0)	1779.3	22.19	21.22	21.25
		1745	22.16	21.29	21.18
		1710.7	22.41	21.41	21.37
3 MHz	1RB High (14)	1778.5	23.23	22.59	22.33
		1745	23.15	22.56	22.44
		1711.5	23.39	22.69	22.47
	1RB Middle (7)	1778.5	23.33	22.42	22.49
		1745	23.16	22.51	22.36
		1711.5	23.28	22.59	22.42
	1RB Low (0)	1778.5	23.18	22.50	22.43
		1745	23.18	22.54	22.42
		1711.5	23.38	22.69	22.36
	8RB High (7)	1778.5	22.24	21.26	21.33
		1745	22.28	21.29	21.28
		1711.5	22.48	21.50	21.50
	8RB Middle (4)	1778.5	22.25	21.40	21.35
		1745	22.25	21.34	21.24
		1711.5	22.51	21.54	21.31
	8RB Low (0)	1778.5	22.24	21.30	21.28
		1745	22.24	21.34	21.25
		1711.5	22.43	21.44	21.44
	15RB	1778.5	22.29	21.26	21.28

	(0)	1745	22.29	21.30	21.22
		1711.5	22.45	21.44	21.48
5 MHz	1RB High (24)	1777.5	23.20	22.60	22.50
		1745	23.21	22.60	22.32
		1712.5	23.35	22.72	22.41
	1RB Middle (12)	1777.5	23.25	22.47	22.36
		1745	23.29	22.57	22.38
		1712.5	23.43	22.61	22.37
	1RB Low (0)	1777.5	23.27	22.63	22.48
		1745	23.25	22.45	22.47
		1712.5	23.43	22.74	22.41
	12RB High (13)	1777.5	22.29	21.28	21.26
		1745	22.29	21.32	21.31
		1712.5	22.47	21.51	21.46
	12RB Middle (6)	1777.5	22.34	21.27	21.33
		1745	22.31	21.28	21.21
		1712.5	22.50	21.54	21.48
	12RB Low (0)	1777.5	22.27	21.30	21.23
		1745	22.34	21.32	21.30
		1712.5	22.47	21.53	21.46
	25RB (0)	1777.5	22.28	21.32	21.25
		1745	22.31	21.28	21.27
		1712.5	22.56	21.46	21.43
10 MHz	1RB High (49)	1775	23.34	22.59	22.50
		1745	23.20	22.60	22.33
		1715	23.32	22.74	22.47
	1RB Middle (24)	1775	23.03	22.55	22.34
		1745	23.20	22.56	22.34
		1715	23.46	22.57	22.45
	1RB Low (0)	1775	23.24	22.64	22.49
		1745	23.17	22.61	22.43
		1715	23.49	22.73	22.41
	25RB High (25)	1775	22.34	21.39	21.20
		1745	22.34	21.44	21.22
		1715	22.50	21.57	21.46
	25RB Middle (12)	1775	22.31	21.30	21.18
		1745	22.40	21.51	21.28
		1715	22.59	21.52	21.28
	25RB Low (0)	1775	22.26	21.29	21.13
		1745	22.31	21.30	21.27
		1715	22.48	21.48	21.48
	50RB (0)	1775	22.22	21.30	21.26
		1745	22.40	21.37	21.24
		1715	22.56	21.48	21.22
15 MHz	1RB High (74)	1772.5	23.34	22.58	21.36
		1745	23.30	22.45	21.42
		1717.5	23.31	22.64	21.50
	1RB	1772.5	23.27	22.64	21.38

	Middle (37)	1745	23.31	22.52	21.52
		1717.5	23.44	22.61	21.61
	1RB Low (0)	1772.5	23.27	22.53	21.38
		1745	23.15	22.49	21.44
		1717.5	23.55	22.70	21.61
	36RB High (38)	1772.5	22.41	21.34	20.35
		1745	22.31	21.27	20.28
		1717.5	22.44	21.39	20.44
	36RB Middle (19)	1772.5	22.40	21.33	20.30
		1745	22.32	21.33	20.32
		1717.5	22.45	21.48	20.42
	36RB Low (0)	1772.5	22.33	21.25	20.26
		1745	22.31	21.28	20.28
		1717.5	22.46	21.49	20.48
	75RB (0)	1772.5	22.31	21.35	20.33
		1745	22.31	21.25	20.29
		1717.5	22.44	21.46	20.38
20 MHz	1RB High (99)	1770	23.02	22.21	22.17
		1745	22.90	22.14	22.04
		1720	23.06	22.32	22.20
	1RB Middle (50)	1770	22.99	22.27	22.06
		1745	22.89	22.25	22.00
		1720	23.18	22.32	22.16
	1RB Low (0)	1770	22.98	22.24	22.22
		1745	22.86	22.23	22.10
		1720	23.16	22.48	22.33
	50RB High (50)	1770	22.02	21.07	21.12
		1745	22.02	21.02	21.01
		1720	22.16	21.16	21.15
	50RB Middle (25)	1770	22.06	21.06	21.03
		1745	22.03	21.10	21.08
		1720	22.16	21.25	21.20
	50RB Low (0)	1770	22.03	20.98	20.97
		1745	22.01	21.02	20.92
		1720	22.20	21.21	21.17
	100RB (0)	1770	22.12	21.10	21.05
		1745	22.01	21.03	21.01
		1720	22.23	21.19	21.15

Power Level C2

Band 66					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
1.4 MHz	1RB High (5)	1779.3	20.17	20.56	20.35
		1745	20.21	20.44	20.37
		1710.7	20.48	20.68	20.6
	1RB Middle (3)	1779.3	20.33	20.53	20.49
		1745	20.29	20.62	20.49
		1710.7	20.45	20.77	20.69
	1RB Low (0)	1779.3	20.19	20.52	20.39
		1745	20.23	20.52	20.44
		1710.7	20.48	20.78	20.61
	3RB High (3)	1779.3	20.25	20.31	20.34
		1745	20.2	20.32	20.28
		1710.7	20.41	20.46	20.5
	3RB Middle (1)	1779.3	20.22	20.38	20.43
		1745	20.3	20.34	20.42
		1710.7	20.56	20.52	20.57
	3RB Low (0)	1779.3	20.21	20.32	20.39
		1745	20.22	20.28	20.38
		1710.7	20.46	20.58	20.54
	6RB (0)	1779.3	20.35	20.39	20.31
		1745	20.32	20.36	20.35
		1710.7	20.46	20.57	20.48
3 MHz	1RB High (14)	1778.5	20.28	20.67	20.48
		1745	20.34	20.62	20.58
		1711.5	20.49	20.87	20.83
	1RB Middle (7)	1778.5	20.26	20.6	20.54
		1745	20.46	20.58	20.51
		1711.5	20.44	20.86	20.6
	1RB Low (0)	1778.5	20.31	20.62	20.34
		1745	20.31	20.68	20.55
		1711.5	20.54	20.87	20.81
	8RB High (7)	1778.5	20.34	20.49	20.37
		1745	20.37	20.39	20.4
		1711.5	20.57	20.62	20.55
	8RB Middle (4)	1778.5	20.37	20.46	20.43
		1745	20.45	20.44	20.37
		1711.5	20.58	20.63	20.62
	8RB Low (0)	1778.5	20.41	20.4	20.4
		1745	20.43	20.41	20.37
		1711.5	20.6	20.64	20.61
	15RB	1778.5	20.35	20.39	20.34

	(0)	1745	20.39	20.42	20.34
		1711.5	20.54	20.57	20.55
5 MHz	1RB High (24)	1777.5	20.32	20.62	20.65
		1745	20.28	20.71	20.7
		1712.5	20.47	20.87	20.58
	1RB Middle (12)	1777.5	20.27	20.66	20.5
		1745	20.37	20.52	20.65
		1712.5	20.52	20.83	20.87
	1RB Low (0)	1777.5	20.36	20.74	20.53
		1745	20.38	20.65	20.51
		1712.5	20.5	20.9	20.87
	12RB High (13)	1777.5	20.4	20.42	20.39
		1745	20.39	20.32	20.38
		1712.5	20.57	20.63	20.64
	12RB Middle (6)	1777.5	20.38	20.41	20.43
		1745	20.43	20.43	20.39
		1712.5	20.6	20.63	20.57
	12RB Low (0)	1777.5	20.43	20.44	20.35
		1745	20.39	20.38	20.33
		1712.5	20.58	20.6	20.56
	25RB (0)	1777.5	20.38	20.39	20.41
		1745	20.35	20.39	20.4
		1712.5	20.68	20.56	20.56
10 MHz	1RB High (49)	1775	20.19	20.64	20.5
		1745	20.1	20.56	20.49
		1715	20.56	20.79	20.47
	1RB Middle (24)	1775	20.11	20.64	20.29
		1745	20.61	20.52	20.51
		1715	20.65	20.81	20.64
	1RB Low (0)	1775	20.26	20.54	20.51
		1745	20.46	20.59	20.56
		1715	20.34	20.83	20.57
	25RB High (25)	1775	20.4	20.41	20.42
		1745	20.36	20.24	20.27
		1715	20.56	20.61	20.52
	25RB Middle (12)	1775	20.3	20.39	20.29
		1745	20.39	20.49	20.49
		1715	20.58	20.62	20.6
	25RB Low (0)	1775	20.28	20.38	20.36
		1745	20.3	20.41	20.4
		1715	20.58	20.59	20.6
	50RB (0)	1775	20.31	20.34	20.28
		1745	20.43	20.39	20.43
		1715	20.58	20.59	20.59
15 MHz	1RB High (74)	1772.5	20.28	20.53	20.3
		1745	20.09	20.5	20.23
		1717.5	20.24	20.52	20.48
	1RB	1772.5	20.19	20.31	20.33

	Middle (37)	1745	20.2	20.56	20.29
		1717.5	20.37	20.66	20.45
	1RB Low (0)	1772.5	20.24	20.39	20.34
		1745	20.1	20.59	20.34
		1717.5	20.45	20.69	20.59
	36RB High (38)	1772.5	20.28	20.26	20.23
		1745	20.27	20.29	20.28
		1717.5	20.45	20.35	20.36
	36RB Middle (19)	1772.5	20.3	20.28	20.31
		1745	20.32	20.23	20.23
		1717.5	20.41	20.42	20.42
	36RB Low (0)	1772.5	20.24	20.18	20.18
		1745	20.26	20.1	20.21
		1717.5	20.51	20.47	20.47
	75RB (0)	1772.5	20.28	20.3	20.3
		1745	20.3	20.21	20.28
		1717.5	20.53	20.34	20.41
20 MHz	1RB High (99)	1770	20.25	20.5	20.29
		1745	20.19	20.5	20.31
		1720	20.26	20.64	20.51
	1RB Middle (50)	1770	20.22	20.46	20.34
		1745	20.15	20.56	20.19
		1720	20.26	20.47	20.36
	1RB Low (0)	1770	20.22	20.37	20.42
		1745	20.16	20.47	20.39
		1720	20.31	20.63	20.46
	50RB High (50)	1770	20.34	20.25	20.24
		1745	20.29	20.21	20.31
		1720	20.31	20.39	20.35
	50RB Middle (25)	1770	20.21	20.17	20.12
		1745	20.33	20.31	20.3
		1720	20.38	20.45	20.4
	50RB Low (0)	1770	20.23	20.15	20.29
		1745	20.24	20.14	20.29
		1720	20.49	20.43	20.44
	100RB (0)	1770	20.27	20.11	20.27
		1745	20.34	20.33	20.33
		1720	20.46	20.36	20.37

Power Level A3/B3/C3/D3

Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	21.93	21.22	20.58
		2535	21.71	21.02	20.62
		2502.5	21.71	21.00	20.64
	1RB Middle (12)	2567.5	21.81	21.12	20.59
		2535	21.66	20.98	20.53
		2502.5	21.61	21.03	20.64
	1RB Low (0)	2567.5	21.83	21.07	20.53
		2535	21.58	20.94	20.46
		2502.5	21.63	20.95	20.62
	12RB High (13)	2567.5	20.92	19.98	19.65
		2535	20.81	19.84	19.53
		2502.5	20.85	19.84	19.54
	12RB Middle (6)	2567.5	20.91	19.93	19.54
		2535	20.80	19.77	19.46
		2502.5	20.79	19.81	19.49
	12RB Low (0)	2567.5	20.85	19.86	19.58
		2535	20.65	19.67	19.34
		2502.5	20.70	19.72	19.44
	25RB (0)	2567.5	20.88	19.90	19.63
		2535	20.63	19.73	19.40
		2502.5	20.78	19.80	19.53
10 MHz	1RB High (49)	2565	21.82	21.11	20.65
		2535	21.84	20.97	20.60
		2505	21.82	20.96	20.63
	1RB Middle (24)	2565	21.91	20.96	20.64
		2535	21.73	20.84	20.53
		2505	21.64	20.91	20.27
	1RB Low (0)	2565	21.86	21.10	20.35
		2535	21.76	21.00	20.58
		2505	21.72	21.08	20.55
	25RB High (25)	2565	20.86	19.97	19.57
		2535	20.83	19.78	19.47
		2505	20.78	19.76	19.44
	25RB Middle (12)	2565	20.98	19.97	19.64
		2535	20.70	19.77	19.46
		2505	20.78	19.73	19.57
	25RB Low (0)	2565	20.90	19.97	19.58
		2535	20.67	19.77	19.50
		2505	20.76	19.83	19.50
	50RB (0)	2565	20.85	19.90	19.58
		2535	20.58	19.80	19.45
		2505	20.68	19.77	19.47

15 MHz	1RB High (74)	2562.5	21.57	20.86	20.58
		2535	21.43	20.84	20.41
		2507.5	21.44	20.76	20.34
	1RB Middle (37)	2562.5	21.60	20.96	20.65
		2535	21.39	20.84	20.33
		2507.5	21.34	20.71	20.32
	1RB Low (0)	2562.5	21.58	20.87	20.59
		2535	21.42	20.82	20.38
		2507.5	21.33	20.73	20.38
	36RB High (38)	2562.5	20.76	19.72	19.46
		2535	20.59	19.62	19.36
		2507.5	20.55	19.57	19.22
	36RB Middle (19)	2562.5	20.77	19.72	19.50
		2535	20.52	19.48	19.32
		2507.5	20.61	19.77	19.34
	36RB Low (0)	2562.5	20.74	19.71	19.38
		2535	20.56	19.53	19.29
		2507.5	20.57	19.60	19.30
	75RB (0)	2562.5	20.73	19.72	19.55
		2535	20.49	19.55	19.29
		2507.5	20.60	19.65	19.36
20 MHz	1RB High (99)	2560	21.56	20.91	20.45
		2535	21.99	21.47	20.47
		2510	21.87	21.14	20.42
	1RB Middle (50)	2560	21.70	20.98	20.25
		2535	21.86	21.38	20.43
		2510	21.74	21.01	20.38
	1RB Low (0)	2560	21.71	21.13	20.19
		2535	21.79	21.40	20.33
		2510	21.72	21.30	20.12
	50RB High (50)	2560	20.91	20.17	19.14
		2535	21.03	20.42	19.38
		2510	20.91	20.34	19.43
	50RB Middle (25)	2560	20.99	20.34	19.24
		2535	20.95	20.43	19.37
		2510	20.94	20.40	19.41
	50RB Low (0)	2560	20.97	20.33	19.27
		2535	21.09	20.31	19.29
		2510	20.93	20.31	19.24
	100RB (0)	2560	20.94	20.22	19.23
		2535	21.06	20.42	19.29
		2510	20.81	20.34	19.25

11.4 Wi-Fi and BT Measurement result

The maximum output power of BT is 12.60dBm.

The maximum tune up of BT is 14dBm.

The average conducted power for Wi-Fi is as following:

The conducted output power for WiFi 2.4G power is as following- [Power Level A4](#)

FCC		
802.11b	Channel\data	1Mbps
WLAN2450	11(2462MHz)	16.13
	6(2437(MHz)	15.89
	1(2412MHz)	15.17
	Tune up	17.00
802.11g	Channel\data	6Mbps
WLAN2450	11(2462MHz)	16.14
	6(2437(MHz)	15.82
	1(2412MHz)	15.24
	Tune up	17.00
802.11n-20MHz	Channel\data	MCS0
WLAN2450	11(2462MHz)	15.90
	6(2437(MHz)	15.72
	1(2412MHz)	15.18
	Tune up	17.00

The conducted output power for WiFi 2.4G power is as following- [Power Level D4](#)

FCC		
802.11b	Channel\data	1Mbps
WLAN2450	11(2462MHz)	8.49
	6(2437(MHz)	7.95
	1(2412MHz)	7.89
802.11g	Channel\data	6Mbps
WLAN2450	11(2462MHz)	8.04
	6(2437(MHz)	7.54
	1(2412MHz)	7.19
802.11n-20MHz	Channel\data	MCS0
WLAN2450	11(2462MHz)	7.99
	6(2437(MHz)	7.51
	1(2412MHz)	7.36
Tune up		9.00

The conducted output power for WiFi 2.4G power is as following- [Power Level B4](#)

FCC		
802.11b	Channel\data	1Mbps
WLAN2450	11(2462MHz)	16.67
	Tune up	18.50
	6(2437(MHz)	18.74
	Tune up	20.00
	1(2412MHz)	17.19
	Tune up	18.50
802.11g	Channel\data	6Mbps
WLAN2450	11(2462MHz)	16.05
	6(2437(MHz)	16.92
	1(2412MHz)	15.50
	Tune up	18.50
802.11n-20MHz	Channel\data	MCS0
WLAN2450	11(2462MHz)	15.48
	6(2437(MHz)	16.49
	1(2412MHz)	16.00
	Tune up	18.00

The conducted output power for WiFi 2.4G power is as following- [Power Level C4](#)

FCC		
802.11b	Channel\data	1Mbps
WLAN2450	11(2462MHz)	16.67
	6(2437(MHz)	17.35
	1(2412MHz)	17.19
	Tune up	18.50
802.11g	Channel\data	6Mbps
WLAN2450	11(2462MHz)	17.61
	6(2437(MHz)	16.92
	1(2412MHz)	16.71
	Tune up	18.50
802.11n-20MHz	Channel\data	MCS0
WLAN2450	11(2462MHz)	16.17
	6(2437(MHz)	16.49
	1(2412MHz)	16.15
	Tune up	18.00

The conducted output power for WiFi 5G power is as following- [Power Level A4](#)

802.11ac(dBm)-80MHz	
Channel\data rate	MCS0
42(5210 MHz)	13.06
58(5290 MHz)	12.85
106(5530 MHz)	13.01
122(5610 MHz)	12.52
138(5690 MHz)	13.79
155(5775 MHz)	13.01
Tune up	14. 5

The conducted output power for WiFi 5G power is as following- [Power Level D4](#)

802.11ac(dBm)-80MHz	
Channel\data rate	MCS0
42(5210 MHz)	7.56
58(5290 MHz)	7.41
106(5530 MHz)	7.38
122(5610 MHz)	6.97
138(5690 MHz)	8.33
155(5775 MHz)	7.69
Tune up	9

The conducted output power for WiFi 5G power is as following- [Power Level C4](#)

802.11ac(dBm)-80MHz	
Channel\data rate	MCS0
42(5210 MHz)	11.01
58(5290 MHz)	10.90
106(5530 MHz)	10.85
122(5610 MHz)	10.56
138(5690 MHz)	11.68
155(5775 MHz)	11.00
Tune up	12. 5

The conducted output power for WiFi 5G power is as following- [Power Level B4](#)

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	16.90
Tune up	17.50
40(5200 MHz)	17.70
44(5220 MHz)	17.40
48(5240 MHz)	17.05
Tune up	19.00
52(5260 MHz)	17.33
56(5280 MHz)	17.42
60(5300 MHz)	17.78
Tune up	19.00
64(5320 MHz)	16.41
Tune up	17.00
100(5500 MHz)	18.21
104(5520 MHz)	17.69
108(5540 MHz)	17.13
112(5560 MHz)	17.11
116(5580 MHz)	17.02
120(5600 MHz)	17.19
124(5620 MHz)	17.38
128(5640 MHz)	18.15
132(5660 MHz)	18.43
136(5680 MHz)	18.58
Tune up	19.00
140(5700 MHz)	11.47
Tune up	12.00
144(5720 MHz)	17.75
Tune up	19.00
802.11ac(dBm)-80MHz	
Channel\data rate	MCS0
155(5775 MHz)	14.90
Tune up	16. 5

11.5 NR 5G Measurement result

Maximum Target Power for Production Unit – Level A1/B1/C1/D1

No.	Test Freq Descripti on	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	846.5	169300	24.2	23.25
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.2	24.37
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	826.5	165300	24.2	23.46
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	839	167800	24.2	23.02
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	25.2	24.32
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	834	166800	24.2	23.24

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	25.2	24.09
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	24.2	23.70
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.7	21.97
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.7	19.78
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	23.7	23.63
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.2	23.14
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	21.7	21.57
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.7	18.20
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	24.2	23.24
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	24.2	23.27
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	25.2	24.31
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	25.2	24.32
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	24.2	23.24
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	25.2	24.35
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	25.2	24.33

Maximum Target Power for Production Unit – Level A2/D2

No.	Test Freq Descripti on	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	846.5	169300	20.2	18.63
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	20.2	18.53
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	826.5	165300	20.2	18.85
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	839	167800	20.2	18.42
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	20.2	18.53
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	834	166800	20.2	18.78

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1_0	826.5	165300	20.2	18.74
2	Middle	15	5	DFT-s-OFDM 16QAM	Edge_1RB_Left	1_0	826.5	165300	20.2	18.76
3	Middle	15	5	DFT-s-OFDM 64QAM	Edge_1RB_Left	1_0	826.5	165300	20.2	18.82
4	Middle	15	5	DFT-s-OFDM 256QAM	Edge_1RB_Left	1_0	826.5	165300	20.2	18.71
5	Middle	15	5	CP-OFDM QPSK	Edge_1RB_Left	1_0	826.5	165300	20.2	18.55
6	Middle	15	5	CP-OFDM 16QAM	Edge_1RB_Left	1_0	826.5	165300	20.2	18.72
7	Middle	15	5	CP-OFDM 64QAM	Edge_1RB_Left	1_0	826.5	165300	20.2	18.25
8	Middle	15	5	CP-OFDM 256QAM	Edge_1RB_Left	1_0	826.5	165300	19.7	17.82
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	826.5	165300	20.2	18.74
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	826.5	165300	20.2	18.82
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	826.5	165300	20.2	18.54
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	826.5	165300	20.2	18.36
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	826.5	165300	20.2	18.51
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	826.5	165300	20.2	18.74
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	826.5	165300	20.2	18.82

Maximum Target Power for Production Unit – Level B2/C2

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	846.5	169300	24.2	22.87
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.2	24.20
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	826.5	165300	24.2	23.30
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	839	167800	24.2	22.81
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	25.2	24.17
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	834	166800	24.2	23.00
According to the table above, the maximum power configuration is selected as the default test configuration										
No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	836.5	167300	25.2	23.93
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	24.2	23.53
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.7	21.90
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.7	19.53
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	23.7	23.67
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.2	23.11
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	21.7	21.46
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.7	17.92
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	24.2	23.25
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	24.2	23.27
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	25.2	24.11
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	25.2	24.17
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	24.2	23.33
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	25.2	24.12
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	25.2	24.14

Maximum Target Power for Production Unit – Level A1/D1

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	23.2	22.11
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	24.2	23.12
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	23.2	22.05
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	23.2	22.02
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	24.2	23.04
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	23.2	21.86
According to the table above, the maximum power configuration is selected as the default test configuration										
No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	24.2	23.11
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	23.2	22.11
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	21.7	20.69
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.7	18.79
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	22.7	21.59
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	22.2	21.21
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.7	19.63
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.7	16.73
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2567.5	513500	23.2	22.08
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2567.5	513500	23.2	22.07
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2567.5	513500	24.2	23.07
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2567.5	513500	24.2	23.06
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2567.5	513500	23.2	22.12
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2567.5	513500	24.2	23.10
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2567.5	513500	24.2	23.05

Maximum Target Power for Production Unit – Level B1

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	22.7	22.13
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	23.7	22.69
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	22.7	22.05
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	22.7	22.06
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	23.7	22.54
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	22.7	21.86

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	23.7	22.67
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	22.7	22.14
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	21.2	20.64
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.2	18.74
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	22.2	21.60
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	21.7	21.20
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.2	19.62
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.2	16.73
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2567.5	513500	22.7	22.05
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2567.5	513500	22.7	21.97
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2567.5	513500	23.7	22.56
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2567.5	513500	23.7	22.58
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2567.5	513500	22.7	22.10
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2567.5	513500	23.7	22.52
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2567.5	513500	23.7	22.54

Maximum Target Power for Production Unit – Level C1

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	22.2	21.07
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	22.2	21.18
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	22.2	21.03
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	22.2	21.02
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	22.2	20.98
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	22.2	20.91

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	22.2	21.14
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	22.2	21.11
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	21.7	20.62
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.7	18.72
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	22.2	21.11
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	22.2	21.17
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.7	19.62
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.7	16.72
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	22.2	21.05
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	22.2	21.08
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	22.2	21.07
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	22.2	21.02
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	22.2	21.14
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	22.2	21.12
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	22.2	21.00

Maximum Target Power for Production Unit – Level A2

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	17.2	15.84
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	17.2	16.08
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	17.2	15.96
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	17.2	15.77
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	17.2	15.86
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	17.2	15.89

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	17.2	15.98
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	17.2	15.95
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	17.2	15.98
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.2	16.02
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	17.2	15.93
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	17.2	16.00
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	17.2	15.96
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.2	16.03
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	17.2	16.01
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	17.2	15.89
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	17.2	16.06
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	17.2	15.95
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	17.2	16.02
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	17.2	16.03
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	17.2	16.01

Maximum Target Power for Production Unit – Level D2

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	14.7	13.25
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	14.7	13.44
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	14.7	13.29
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	14.7	13.07
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	14.7	13.23
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	14.7	13.27

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n7							Tune up	Power Results (dBm) n7
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	14.7	13.33
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	14.7	13.24
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	14.7	13.37
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	14.7	13.40
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	14.7	13.33
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	14.7	13.38
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	14.7	13.27
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	14.7	13.37
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	14.7	13.34
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	14.7	13.29
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	14.7	13.36
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	14.7	13.37
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	14.7	13.34
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	14.7	13.41
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	14.7	13.42

Maximum Target Power for Production Unit – Level B2

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	21.7	20.34
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	21.7	20.49
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	21.7	20.38
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	21.7	20.23
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	21.7	20.33
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	21.7	20.29

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	21.7	20.45
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	21.7	20.40
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	21.2	20.48
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.2	18.53
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	21.7	20.40
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	21.7	20.46
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.2	19.49
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.2	16.57
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	21.7	20.48
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	21.7	20.40
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	21.7	20.46
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	21.7	20.44
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	21.7	20.44
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	21.7	20.42
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	21.7	20.44

Maximum Target Power for Production Unit – Level C2

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	20.2	18.85
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	20.2	19.07
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	20.2	18.97
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	20.2	18.78
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	20.2	18.88
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	20.2	18.86

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	20.2	19.00
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	20.2	19.00
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.2	19.06
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.7	18.58
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	20.2	18.94
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	20.2	19.01
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.2	19.00
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.7	16.57
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	20.2	19.02
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	20.2	18.91
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	20.2	19.04
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	20.2	18.97
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	20.2	18.98
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	20.2	19.01
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	20.2	18.98

Maximum Target Power for Production Unit – Level A3/B3/C3/D3

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2567.5	513500	23.2	22.68
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	24.2	23.38
3	Low	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2502.5	500500	23.2	22.11
4	High	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2560	512000	23.2	22.53
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	24.2	23.25
6	Low	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2510	502000	23.2	21.90

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	2535	507000	24.2	23.31
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2535	507000	23.2	22.44
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2535	507000	21.7	20.80
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2535	507000	19.7	18.84
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2535	507000	22.7	21.99
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2535	507000	22.2	21.38
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2535	507000	20.7	19.83
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2535	507000	17.7	16.84
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2535	507000	23.2	22.33
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	23.2	22.23
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2535	507000	24.2	23.36
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	24.2	22.32
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2535	507000	23.2	22.35
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	24.2	23.29
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	24.2	23.25

Maximum Target Power for Production Unit – Level A1/B1/D1

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	23.2	22.12
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	23.2	23.07
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	24.2	23.14
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	23.2	23.12
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	23.2	22.06
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	23.2	21.90
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	23.2	22.90
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	24.2	22.87
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	23.2	22.92
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	23.2	21.87

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2592.99	518598	24.2	23.08
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	23.2	22.07
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	21.7	20.49
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	19.7	18.54
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	22.7	21.61
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	22.2	21.15
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	20.7	19.48
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	17.7	16.59
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	23.2	22.14
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.2	22.20
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	24.2	23.12
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	24.2	23.11
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	23.2	22.15
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	24.2	23.08
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	24.2	23.06

Maximum Target Power for Production Unit – Level C1

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	22.7	21.56
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	22.7	21.51
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	22.7	21.64
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	22.7	21.62
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	22.7	21.57
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	22.7	21.42
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	22.7	21.35
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	22.7	21.43
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	22.7	21.43
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	22.7	21.34

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2592.99	518598	22.7	21.61
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	22.7	21.63
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	22.2	20.49
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	20.2	18.57
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	22.7	21.63
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	22.7	21.21
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	21.2	19.48
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	18.2	16.50
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	22.7	21.60
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	22.7	21.61
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	22.7	21.57
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	22.7	21.63
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	22.7	21.59
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	22.7	21.61
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	22.7	21.60

Maximum Target Power for Production Unit – Level A2

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	18.2	16.65
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	18.2	16.64
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	18.2	16.81
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	18.2	16.80
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	18.2	16.78
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	18.2	16.65
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	18.2	16.50
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18.2	16.56
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	18.2	16.64
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	18.2	16.71

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2592.99	518598	18.2	16.77
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	18.2	16.80
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	18.2	16.71
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	18.2	16.77
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	18.2	16.80
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	18.2	16.80
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	18.2	16.76
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	18.2	16.22
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	18.2	16.70
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	18.2	16.73
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	18.2	16.77
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	18.2	16.63
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	18.2	16.66
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	18.2	16.77
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	18.2	16.73

Maximum Target Power for Production Unit – Level B2/C2

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	21.2	19.37
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	21.2	19.58
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	21.2	19.75
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	21.2	19.72
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	21.2	19.71
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	21.2	19.42
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	21.2	19.40
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	21.2	19.55
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	21.2	19.52
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	21.2	19.43

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2592.99	518598	21.2	19.54
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	21.2	19.68
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	21.2	19.71
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	20.7	18.75
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	21.2	19.57
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	21.2	19.65
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	21.2	19.13
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	18.7	16.77
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	21.2	19.63
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	21.2	19.51
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	21.2	19.53
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	21.2	19.66
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	21.2	19.72
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	21.2	19.59
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	21.2	19.67

Maximum Target Power for Production Unit – Level D2

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	16.7	15.19
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	16.7	15.17
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	16.7	15.31
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	16.7	15.26
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	16.7	15.30
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	16.7	15.04
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	16.7	15.05
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	16.7	15.04
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	16.7	15.15
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	16.7	15.21

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2592.99	518598	16.7	15.29
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	16.7	15.28
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	16.7	15.30
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	16.7	15.25
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	16.7	15.23
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	16.7	15.26
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	16.7	15.17
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	16.7	15.25
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	16.7	15.28
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	16.7	15.24
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	16.7	15.21
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	16.7	15.19
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	16.7	15.22
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	16.7	15.25
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	16.7	15.27

Maximum Target Power for Production Unit – Level A3/B3/D3

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	23.2	23.04
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	24.2	23.31
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	24.2	23.39
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	24.2	23.26
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	23.2	22.10
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	23.2	22.39
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	24.2	23.17
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	24.2	23.16
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	24.2	23.14
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	23.2	21.88

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Inner_Full	25_12	2636.49	527298	24.2	23.34
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2636.49	527298	23.2	22.30
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2636.49	527298	21.7	20.86
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2636.49	527298	19.7	18.81
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	2636.49	527298	22.7	21.93
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2636.49	527298	22.2	21.37
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2636.49	527298	20.7	19.90
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2636.49	527298	17.7	16.89
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	23.2	22.36
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.2	22.46
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	24.2	23.36
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	24.2	22.43
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	23.2	22.39
14	Middle	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	24.2	23.31
15	Middle	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	24.2	23.34

Maximum Target Power for Production Unit – Level C3

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.51
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	21.2	20.02
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	21.2	19.96
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	21.2	19.92
5	Low	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2506.02	501204	21.2	19.99
6	High	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2640	528000	21.2	20.17
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	21.2	19.76
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	21.2	19.75
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	21.2	19.81
10	Low	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2546.01	509202	21.2	19.59

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Descripti on	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	30	20	DFT-s-OFDM P1/2 BPSK1	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.05
2	Middle	30	20	DFT-s-OFDM 16QAM	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.45
3	Middle	30	20	DFT-s-OFDM 64QAM	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.34
4	Middle	30	20	DFT-s-OFDM 256QAM	Edge_1RB_Right	1_50	2679.99	535998	20.7	19.21
5	Middle	30	20	CP-OFDM QPSK	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.41
6	Middle	30	20	CP-OFDM 16QAM	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.35
7	Middle	30	20	CP-OFDM 64QAM	Edge_1RB_Right	1_50	2679.99	535998	21.2	20.23
8	Middle	30	20	CP-OFDM 256QAM	Edge_1RB_Right	1_50	2679.99	535998	18.7	17.07
9	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2679.99	535998	21.2	20.25
10	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2679.99	535998	21.2	20.16
11	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2679.99	535998	21.2	20.32
12	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2679.99	535998	21.2	20.25
13	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2679.99	535998	21.2	20.27
14	Middle	30	40	DFT-s-OFDM QPSK	Edge_1RB_Right	2_104	2670	534000	21.2	20.31
15	Middle	30	60	DFT-s-OFDM QPSK	Edge_1RB_Right	2_160	2659.98	531996	21.2	20.27

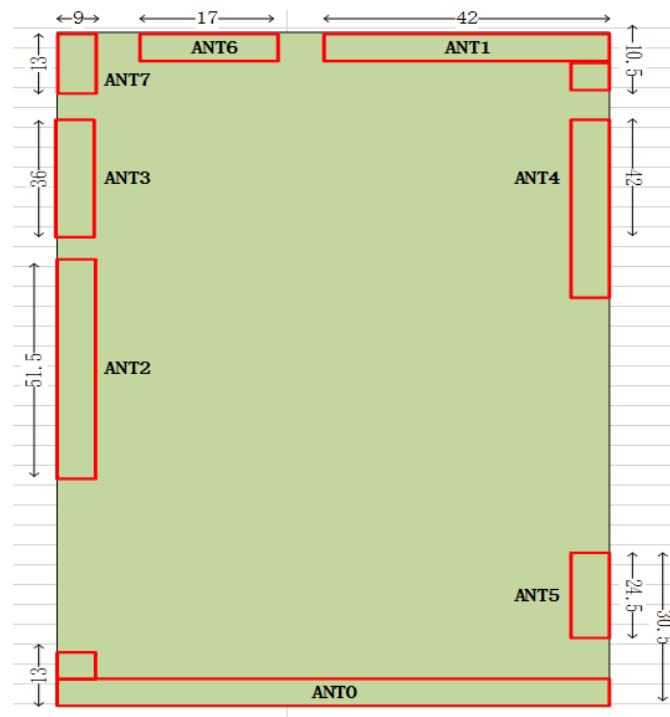
12 Simultaneous TX SAR Considerations

12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

12.2 Transmit Antenna Separation Distances



Antenna	Support Bands
ANT0	GSM850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/17/26/38/41/66
	NR n5 (Only for ENDC)/n7 (SA+ENDC)/n41 (SA+ENDC)
ANT1	GSM850/1900
	WCDMA B2/4/5
	LTE B2/4/5/7/12/17/26/38/41/66
	NR n5 (Only for ENDC)/n7 (SA+ENDC)/n41 (SA+ENDC)
ANT4	LTE B7 (Only for ENDC)
	NR n7 (Only for ENDC)/n41 (Only for ENDC)
ANT7	WLAN 2.4G/5G/Bluetooth

Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	Yes	Yes	Yes	No	No	Yes
ANT1	Yes	Yes	Yes	No	Yes	No
ANT4	Yes	Yes	Yes	No	Yes	No
ANT7	Yes	Yes	No	Yes	Yes	No

12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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

Table 12.1: Standalone SAR test exclusion considerations

Band/Mode	F(GHz)	Position	SAR test exclusion threshold(mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.60	14	25.12	No
		Body	19.20	14	25.12	Yes
2.4GHz WLAN	2.45	Head	9.58	20	100	No
		Body	19.17	20	100	No
5GHz WLAN	5.2	Head	6.58	19	79.43	No
		Body	13.16	19	79.43	No
	5.3	Head	6.52	19	79.43	No
		Body	13.03	19	79.43	No
	5.6	Head	6.34	19	79.43	No
		Body	12.68	19	79.43	No
	5.8	Head	6.23	16.5	44.67	No
		Body	12.46	16.5	44.67	No

13 Evaluation of Simultaneous

Table 13.1: The sum of SAR values for Main antenna + WiFi-2.4G

	Band	Cellular antenna	WiFi-2.4G	Sum
Highest reported SAR value for Head	ENDC N7+LTE Band5	1.23	0.06	1.29
Highest SAR value for Body	ENDC N41+LTE Band26	1.07	0.24	1.31

Note1: we have evaluated and chose the highest value of body 10mm and 15mm in the above table.

Table 13.2: The sum of SAR values for Main antenna + WiFi-5G

	Band	Cellular antenna	WiFi-5G	Sum
Highest SAR value for Head	ENDC N7+LTE Band5	1.23	0.09	1.32
Maximum reported SAR value for Body	ENDC N41+LTE Band26	1.07	0.22	1.29

Table 13.3: The sum of SAR values for Main antenna + WiFi-5G +BT

	Band	Cellular antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	ENDC N7+LTE Band5	1.23	0.09	<0.01	1.32
Maximum reported SAR value for Body	ENDC N41+LTE Band26	1.07	0.22	<0.01	1.29

Note1: the test positions of above tables are for the worse case that have been evaluated.

[1] – The head SAR of BT is too low to get it, so the “<0.01” is used to indicate the head SAR of BT.

	LTE	NR	Position	Reported SAR 10g(W/kg)
ENDC	LTE Band 7(ANT4)	N5(ANT0)	Head	0.78
	LTE Band 7(ANT4)	N5(ANT1)	Head	0.99
	LTE Band 7(ANT0)	N5(ANT1)	Head	0.72
	LTE Band 5(ANT0)	N7 (ANT4)	Head	0.57
	LTE Band 5(ANT1)	N7 (ANT4)	Head	1.23
	LTE Band 5(ANT1)	N7 (ANT0)	Head	1.14
	LTE Band 26(ANT0)	N41 (ANT4)	Head	0.65
	LTE Band 26(ANT1)	N41 (ANT4)	Head	0.96
	LTE Band 26(ANT1)	N41 (ANT0)	Head	0.95

	LTE	NR	Position	Reported SAR 10g(W/kg)
ENDC	LTE Band 7(ANT4)	N5(ANT0)	Body 10mm	0.91
	LTE Band 7(ANT4)	N5(ANT1)	Body 10mm	1.05
	LTE Band 7(ANT0)	N5(ANT1)	Body 10mm	0.55
	LTE Band 5(ANT0)	N7 (ANT4)	Body 10mm	0.39
	LTE Band 5(ANT1)	N7 (ANT4)	Body 10mm	0.51
	LTE Band 5(ANT1)	N7 (ANT0)	Body 10mm	0.78
	LTE Band 26(ANT0)	N41 (ANT4)	Body 10mm	0.81
	LTE Band 26(ANT1)	N41 (ANT4)	Body 10mm	1.00
	LTE Band 26(ANT1)	N41 (ANT0)	Body 10mm	1.07

	LTE	NR	Position	Reported SAR 10g(W/kg)
ENDC	LTE Band 7(ANT4)	N5(ANT0)	Body 15mm	0.54
	LTE Band 7(ANT4)	N5(ANT1)	Body 15mm	0.68
	LTE Band 7(ANT0)	N5(ANT1)	Body 15mm	0.48
	LTE Band 5(ANT0)	N7 (ANT4)	Body 15mm	0.23
	LTE Band 5(ANT1)	N7 (ANT4)	Body 15mm	0.27
	LTE Band 5(ANT1)	N7 (ANT0)	Body 15mm	0.55
	LTE Band 26(ANT0)	N41 (ANT4)	Body 15mm	0.75
	LTE Band 26(ANT1)	N41 (ANT4)	Body 15mm	0.78
	LTE Band 26(ANT1)	N41 (ANT0)	Body 15mm	0.66

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.
The distance is 10 mm or 15mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-gSAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 11.

Table 14.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM850/1900	1:8.3
GPRS&EGPRS for GSM850/1900	1:2.67
WCDMA<E FDD	1:1
LTE B41 PC3	1:1.58

14.1 SAR results for Fast SAR(ANT0)

Table 14.1-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	Left	Touch	/	32.84	33.50	0.087	0.10	0.112	0.13	-0.06
190	836.6	Left	Touch	Fig.1	32.97	33.50	0.091	0.10	0.116	0.13	0.07
128	824.2	Left	Touch	/	33.04	33.50	0.059	0.07	0.076	0.08	0.04
190	836.6	Left	Tilt	/	32.97	33.50	0.052	0.06	0.064	0.07	0.05
190	836.6	Right	Touch	/	32.97	33.50	0.077	0.09	0.098	0.11	-0.08
190	836.6	Right	Tilt	/	32.97	33.50	0.024	0.03	0.047	0.05	-0.02
190	836.6	Left	Touch	S2	32.97	33.50	0.086	0.10	0.104	0.12	0.13

Table 14.1-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Front	/	28.88	29.50	0.074	0.09	0.073	0.08	-0.01
251	848.8	GPRS (3)	Rear	Fig.2	28.76	29.50	0.124	0.15	0.161	0.19	-0.09
190	836.6	GPRS (3)	Rear	/	28.88	29.50	0.099	0.11	0.122	0.14	0.13
128	824.2	GPRS (3)	Rear	/	28.99	29.50	0.077	0.09	0.097	0.11	0.12
190	836.6	GPRS (3)	Left	/	28.88	29.50	0.068	0.08	0.074	0.09	-0.08
190	836.6	GPRS (3)	Right	/	28.88	29.50	0.043	0.05	0.048	0.06	-0.04
190	836.6	GPRS (3)	Bottom	/	28.88	29.50	0.047	0.05	0.061	0.07	-0.11
251	848.8	EGPRS (3)	Rear	/	28.66	29.50	0.115	0.14	0.147	0.18	0.13
251	848.8	GPRS (3)	Rear	S2	28.76	29.50	0.107	0.13	0.132	0.16	0.05

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-3: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Front	/	28.88	29.50	0.053	0.06	0.068	0.08	-0.07
251	848.8	GPRS (3)	Rear	Fig.3	28.76	29.50	0.101	0.12	0.131	0.16	0.12
190	836.6	GPRS (3)	Rear	/	28.88	29.50	0.070	0.08	0.091	0.10	0.11
128	824.2	GPRS (3)	Rear	/	28.99	29.50	0.052	0.06	0.067	0.08	-0.06
251	848.8	EGPRS (3)	Rear	/	28.66	29.50	0.095	0.12	0.124	0.15	0.02
251	848.8	GPRS (3)	Rear	S2	28.66	29.50	0.087	0.11	0.117	0.14	0.03

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-4: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	Left	Touch	/	30.14	30.50	0.031	0.03	0.052	0.06	0.08
661	1880	Left	Touch	Fig.4	29.83	30.50	0.037	0.04	0.061	0.07	-0.19
512	1850.2	Left	Touch	/	29.66	30.50	0.032	0.04	0.054	0.07	0.06
661	1880	Left	Tilt	/	29.83	30.50	0.024	0.03	0.039	0.05	0.07
661	1880	Right	Touch	/	29.83	30.50	0.030	0.04	0.047	0.05	0.16
661	1880	Right	Tilt	/	29.83	30.50	0.021	0.02	0.032	0.04	0.16
661	1880	Left	Touch	S2	29.83	30.50	0.031	0.04	0.056	0.07	0.13

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.1-5: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Front	/	25.37	25.50	0.145	0.15	0.229	0.24	0.08
661	1880	GPRS (3)	Rear	/	25.37	25.50	0.272	0.28	0.441	0.45	0.04
661	1880	GPRS (3)	Left	/	25.37	25.50	0.028	0.03	0.041	0.04	-0.06
661	1880	GPRS (3)	Right	/	25.37	25.50	0.051	0.05	0.089	0.09	-0.09
810	1909.8	GPRS (3)	Bottom	/	25.43	25.50	0.256	0.26	0.622	0.63	-0.13
661	1880	GPRS (3)	Bottom	Fig.5	25.37	25.50	0.441	0.45	0.788	0.81	0.1
512	1850.2	GPRS (3)	Bottom	/	25.36	25.50	0.416	0.43	0.721	0.74	-0.07
661	1880	EGPRS (3)	Bottom	/	25.36	25.50	0.382	0.39	0.751	0.78	0.08
661	1880	GPRS (3)	Bottom	S2	25.37	25.50	0.391	0.40	0.762	0.79	0.14

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-6: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Front	/	25.91	26.50	0.109	0.12	0.173	0.20	-0.1
810	1909.8	GPRS (3)	Rear	/	26.06	26.50	0.195	0.22	0.309	0.34	0.08
661	1880	GPRS (3)	Rear	Fig.6	25.91	26.50	0.206	0.24	0.327	0.37	0.07
512	1850.2	GPRS (3)	Rear	/	25.91	26.50	0.196	0.22	0.317	0.36	0.05
661	1880	EGPRS (3)	Rear	/	25.96	26.50	0.186	0.21	0.307	0.35	0.12
661	1880	GPRS (3)	Rear	S2	25.91	26.50	0.159	0.18	0.286	0.33	0.04

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-7: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Left	Touch	Fig.7	23.69	25.00	0.070	0.09	0.090	0.12	-0.01
4182	836.4	Left	Touch	/	23.65	25.00	0.061	0.08	0.085	0.12	-0.1
4132	826.4	Left	Touch	/	23.71	25.00	0.045	0.06	0.062	0.08	-0.13
4182	836.4	Left	Tilt	/	23.65	25.00	0.035	0.05	0.048	0.07	0.08
4182	836.4	Right	Touch	/	23.65	25.00	0.046	0.06	0.063	0.09	-0.05
4182	836.4	Right	Tilt	/	23.65	25.00	0.039	0.05	0.052	0.07	-0.02
4233	846.6	Left	Touch	S2	23.69	25.00	0.062	0.08	0.081	0.11	0.08

Table 14.1-8: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Front	/	23.65	25.00	0.069	0.09	0.074	0.10	0.07
4233	846.6	Rear	Fig.8	23.69	25.00	0.082	0.11	0.109	0.15	-0.13
4182	836.4	Rear	/	23.65	25.00	0.064	0.09	0.083	0.11	-0.06
4132	826.4	Rear	/	23.71	25.00	0.058	0.08	0.076	0.10	-0.12
4182	836.4	Left	/	23.65	25.00	0.042	0.06	0.050	0.07	0.03
4182	836.4	Right	/	23.65	25.00	0.025	0.03	0.030	0.04	-0.03
4182	836.4	Bottom	/	23.65	25.00	0.036	0.05	0.052	0.07	0.06
4233	846.6	Rear	S2	23.69	25.00	0.076	0.10	0.095	0.13	0.12

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-9: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Front	/	23.65	25.00	0.046	0.06	0.063	0.09	0.07
4233	846.6	Rear	Fig.9	23.69	25.00	0.055	0.07	0.093	0.13	0.06
4182	836.4	Rear	/	23.65	25.00	0.043	0.06	0.071	0.10	-0.12
4132	826.4	Rear	/	23.71	25.00	0.039	0.05	0.065	0.09	-0.13
4233	846.6	Rear	S2	23.69	25.00	0.048	0.06	0.087	0.12	0.16

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-10: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Left	Touch	/	23.25	24.50	0.048	0.06	0.072	0.10	0.1
1412	1732.4	Left	Touch	Fig.10	23.30	24.50	0.053	0.07	0.083	0.11	0.02
1312	1712.4	Left	Touch		23.40	24.50	0.049	0.06	0.075	0.10	0.1
1412	1732.4	Left	Tilt	/	23.30	24.50	0.033	0.04	0.055	0.07	-0.03
1412	1732.4	Right	Touch	/	23.30	24.50	0.052	0.07	0.074	0.10	-0.02
1412	1732.4	Right	Tilt	/	23.30	24.50	0.039	0.05	0.064	0.08	-0.1
1412	1732.4	Left	Touch	S2	23.30	24.50	0.047	0.06	0.076	0.10	0.13

Table 14.1-11: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	18.94	20.50	0.166	0.24	0.282	0.40	-0.03
1412	1732.4	Rear	/	18.94	20.50	0.309	0.44	0.528	0.76	-0.07
1412	1732.4	Left	/	18.94	20.50	0.031	0.04	0.046	0.07	0.09
1412	1732.4	Right	/	18.94	20.50	0.056	0.08	0.088	0.13	0.08
1513	1752.6	Bottom	/	18.85	20.50	0.297	0.43	0.535	0.78	0.09
1412	1732.4	Bottom	/	18.94	20.50	0.305	0.44	0.545	0.78	-0.03
1312	1712.4	Bottom	Fig.11	18.98	20.50	0.303	0.43	0.547	0.78	0.09
1312	1712.4	Bottom	S2	18.98	20.50	0.287	0.41	0.514	0.73	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-12: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	19.49	21.00	0.056	0.08	0.090	0.13	0.05
1513	1752.6	Rear	/	19.42	21.00	0.104	0.15	0.169	0.24	0.16
1412	1732.4	Rear	Fig.12	19.49	21.00	0.109	0.15	0.178	0.25	0.07
1312	1712.4	Rear		19.50	21.00	0.107	0.15	0.176	0.25	-0.04
1412	1732.4	Rear	S2	19.49	21.00	0.094	0.13	0.162	0.23	0.02

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-13: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Touch	/	23.13	24.50	0.021	0.03	0.034	0.05	-0.06
9538	1907.6	Left	Tilt	/	23.14	24.50	0.019	0.03	0.034	0.05	0.05
9400	1880	Left	Tilt		23.13	24.50	0.027	0.04	0.049	0.07	-0.01
9262	1852.4	Left	Tilt	Fig.13	23.22	24.50	0.043	0.06	0.074	0.10	0.04
9400	1880	Right	Touch	/	23.13	24.50	0.021	0.03	0.034	0.05	0.13
9400	1880	Right	Tilt	/	23.13	24.50	0.022	0.03	0.039	0.05	-0.13
9262	1852.4	Left	Tilt	S2	23.22	24.50	0.041	0.06	0.070	0.09	0.16

Table 14.1-14: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	18.35	20.00	0.055	0.08	0.091	0.13	0.1
9400	1880	Rear	/	18.35	20.00	0.101	0.15	0.168	0.25	0.06
9400	1880	Left		18.35	20.00	<0.01	<0.01	<0.01	<0.01	
9400	1880	Right	/	18.35	20.00	0.021	0.03	0.038	0.06	-0.04
9538	1907.6	Bottom	/	18.41	20.00	0.130	0.19	0.234	0.34	0.13
9400	1880	Bottom	Fig.14	18.35	20.00	0.143	0.21	0.257	0.38	0.09
9262	1852.4	Bottom		18.43	20.00	0.141	0.20	0.254	0.36	0.03
9400	1880	Bottom	S2	18.35	20.00	0.114	0.17	0.219	0.32	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-15: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	20.36	21.50	0.090	0.12	0.146	0.19	-0.11
9538	1907.6	Rear	/	20.37	21.50	0.150	0.19	0.242	0.31	0.04
9400	1880	Rear	Fig.15	20.36	21.50	0.152	0.20	0.247	0.32	0.09
9262	1852.4	Rear	/	20.38	21.50	0.144	0.19	0.234	0.30	-0.05
9400	1880	Rear	S2	20.36	21.50	0.137	0.18	0.222	0.29	0.16

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-16: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
19100	1900	1RB_Low	Left	Touch	Fig.16	23.31	24.00	0.094	0.11	0.150	0.18	0.09
19100	1900	1RB_Low	Left	Tilt	/	23.31	24.00	0.063	0.07	0.102	0.12	0.00
19100	1900	1RB_Low	Right	Touch	/	23.31	24.00	0.066	0.08	0.099	0.12	0.02
19100	1900	1RB_Low	Right	Tilt	/	23.31	24.00	0.065	0.08	0.103	0.12	0.10
18700	1860	50RB_High	Left	Touch	/	22.33	23.00	0.079	0.09	0.127	0.15	0.00
18700	1860	50RB_High	Left	Tilt	/	22.33	23.00	0.056	0.07	0.088	0.10	-0.03
18700	1860	50RB_High	Right	Touch	/	22.33	23.00	0.051	0.06	0.078	0.09	-0.07
18700	1860	50RB_High	Right	Tilt	/	22.33	23.00	0.050	0.06	0.082	0.10	0.01
19100	1900	1RB_Low	Left	Touch	S2	23.31	24.00	0.084	0.10	0.132	0.15	0.14

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-17: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C											
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18900	1880	1RB_Low	Front	/	19.72	21.00	0.118	0.16	0.196	0.26	-0.05
18900	1880	1RB_Low	Rear	/	19.72	21.00	0.218	0.29	0.374	0.50	0.08
18900	1880	1RB_Low	Left	/	19.72	21.00	<0.01	<0.01	<0.01	<0.01	/
18900	1880	1RB_Low	Right	/	19.72	21.00	0.048	0.06	0.090	0.12	-0.02
18900	1880	1RB_Low	Bottom	/	19.72	21.00	0.280	0.38	0.504	0.68	-0.12
18900	1880	50RB_High	Front	/	19.74	21.00	0.162	0.22	0.193	0.26	-0.12
18900	1880	50RB_High	Rear	/	19.74	21.00	0.220	0.29	0.379	0.51	-0.09
18900	1880	50RB_High	Left	/	19.74	21.00	<0.01	<0.01	<0.01	<0.01	/
18900	1880	50RB_High	Right	/	19.74	21.00	0.049	0.07	0.091	0.12	0.00
18900	1880	50RB_High	Bottom	Fig.17	19.74	21.00	0.286	0.38	0.515	0.69	0.03
18900	1880	50RB_High	Bottom	S2	19.74	21.00	0.271	0.36	0.502	0.67	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-18: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
19100	1900	1RB_Low	Front	/	21.18	22.50	0.094	0.13	0.150	0.20	0.01
19100	1900	1RB_Low	Rear	Fig.18	21.18	22.50	0.195	0.26	0.319	0.43	0.16
18700	1860	50RB_High	Front	/	21.28	22.50	0.082	0.11	0.132	0.17	0.04
18700	1860	50RB_High	Rear	/	21.28	22.50	0.164	0.22	0.267	0.35	-0.02
19100	1900	1RB_Low	Rear		21.18	22.50	0.179	0.24	0.304	0.41	0.05

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-19: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Low	Left	Touch	/	23.98	25.00	0.066	0.08	0.086	0.11	-0.12
20450	829	1RB_Low	Left	Tilt	/	23.98	25.00	0.036	0.05	0.046	0.06	-0.12
20450	829	1RB_Low	Right	Touch	Fig.19	23.98	25.00	0.067	0.08	0.087	0.11	0.04
20450	829	1RB_Low	Right	Tilt	/	23.98	25.00	<0.01	<0.01	<0.01	<0.01	
20450	829	25RB_Mid	Left	Touch	/	22.93	24.00	0.056	0.07	0.071	0.09	0.04
20450	829	25RB_Mid	Left	Tilt	/	22.93	24.00	<0.01	<0.01	<0.01	<0.01	
20450	829	25RB_Mid	Right	Touch	/	22.93	24.00	0.053	0.07	0.068	0.09	-0.02
20450	829	25RB_Mid	Right	Tilt	/	22.93	24.00	<0.01	<0.01	<0.01	<0.01	
20450	829	1RB_Low	Right	Touch	S2	23.98	25.00	0.061	0.08	0.081	0.10	0.09

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-20: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Front	/	23.98	25.00	0.084	0.11	0.088	0.11	0.03
20450	829	1RB_Low	Rear	Fig.20	23.98	25.00	0.087	0.11	0.110	0.14	-0.10
20450	829	1RB_Low	Left	/	23.98	25.00	0.070	0.09	0.078	0.10	0.02
20450	829	1RB_Low	Right	/	23.98	25.00	0.050	0.06	0.056	0.07	0.03
20450	829	1RB_Low	Bottom	/	23.98	25.00	0.040	0.05	0.055	0.07	0.00
20450	829	25RB_Mid	Front	/	22.93	24.00	0.066	0.08	0.072	0.09	0.09

20450	829	25RB_Mid	Rear	/	22.93	24.00	0.079	0.10	0.106	0.14	-0.01
20450	829	25RB_Mid	Left	/	22.93	24.00	0.057	0.07	0.063	0.08	-0.06
20450	829	25RB_Mid	Right	/	22.93	24.00	0.042	0.05	0.047	0.06	-0.05
20450	829	25RB_Mid	Bottom	/	22.93	24.00	0.034	0.04	0.047	0.06	0.04
20450	829	1RB_Low	Rear	S2	23.98	25.00	0.081	0.10	0.103	0.13	0.15

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-21: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Front	/	23.98	25.00	0.069	0.09	0.082	0.10	0.09
20450	829	1RB_Low	Rear	Fig.21	23.98	25.00	0.078	0.10	0.100	0.13	0.10
20450	829	25RB_Mid	Front	/	22.93	24.00	0.056	0.07	0.071	0.09	0.13
20450	829	25RB_Mid	Rear	/	22.93	24.00	0.064	0.08	0.081	0.10	-0.05
20450	829	1RB_Low	Rear	S2	23.98	25.00	0.071	0.09	0.092	0.12	0.14

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-22: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	1RB_High	Left	Touch	/	23.11	24.20	0.102	0.13	0.176	0.23	-0.05
21350	2560	1RB_High	Left	Tilt	/	23.11	24.20	0.081	0.10	0.149	0.19	0.06
21350	2560	1RB_High	Right	Touch	Fig.22	23.11	24.20	0.168	0.22	0.308	0.40	-0.12
21350	2560	1RB_High	Right	Tilt	/	23.11	24.20	0.133	0.17	0.265	0.34	-0.05
21350	2560	50RB_High	Left	Touch	/	22.26	23.20	0.082	0.10	0.142	0.18	-0.02
21350	2560	50RB_High	Left	Tilt	/	22.26	23.20	0.065	0.08	0.118	0.15	-0.05
21350	2560	50RB_High	Right	Touch	/	22.26	23.20	0.141	0.18	0.255	0.32	-0.08
21350	2560	50RB_High	Right	Tilt	/	22.26	23.20	0.108	0.13	0.215	0.27	-0.12
21350	2560	1RB_High	Right	Touch	S2	23.11	24.20	0.147	0.19	0.283	0.36	0.16

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-23: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_High	Front	/	20.72	22.00	0.080	0.11	0.143	0.19	0.13
21350	2560	1RB_High	Rear	/	20.72	22.00	0.110	0.15	0.207	0.28	0.05
21350	2560	1RB_High	Left	/	20.72	22.00	<0.01	<0.01	<0.01	<0.01	
21350	2560	1RB_High	Right	/	20.72	22.00	0.036	0.05	0.063	0.08	0.03
21350	2560	1RB_High	Bottom	/	20.72	22.00	0.058	0.08	0.103	0.14	0.07
21350	2560	50RB_Mid	Front	/	20.84	22.00	0.082	0.11	0.146	0.19	0.08
21350	2560	50RB_Mid	Rear	Fig.23	20.84	22.00	0.114	0.15	0.216	0.28	-0.10
21350	2560	50RB_Mid	Left	/	20.84	22.00	<0.01	<0.01	<0.01	<0.01	
21350	2560	50RB_Mid	Right	/	20.84	22.00	0.037	0.05	0.065	0.08	0.02
21350	2560	50RB_Mid	Bottom	/	20.84	22.00	0.060	0.08	0.106	0.14	0.10
21350	2560	50RB_Mid	Rear	S2	20.84	22.00	0.103	0.13	0.207	0.27	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-24: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_High	Front	/	20.72	22.00	0.073	0.10	0.132	0.18	-0.09
21350	2560	1RB_High	Rear	Fig.24	20.72	22.00	0.108	0.15	0.200	0.27	0.04
21350	2560	50RB_Mid	Front	/	20.84	22.00	0.062	0.08	0.111	0.14	0.10
21350	2560	50RB_Mid	Rear	/	20.84	22.00	0.087	0.11	0.162	0.21	-0.03
21350	2560	1RB_High	Rear	S2	20.72	22.00	0.094	0.13	0.183	0.25	0.17

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-25: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB_Low	Left	Touch	Fig.25	23.67	24.50	0.029	0.04	0.037	0.04	-0.02
23060	704	1RB_Low	Left	Tilt	/	23.67	24.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	1RB_Low	Right	Touch	/	23.67	24.50	0.025	0.03	0.032	0.04	0.06
23060	704	1RB_Low	Right	Tilt	/	23.67	24.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Left	Touch	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Left	Tilt	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Right	Touch	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Right	Tilt	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	1RB_Low	Left	Touch	S2	23.67	24.50	0.021	0.03	0.034	0.04	0.06

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-26: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Low	Front	/	23.67	24.50	0.027	0.03	0.037	0.04	0.01
23060	704	1RB_Low	Rear	Fig.26	23.67	24.50	0.047	0.06	0.062	0.08	-0.06
23060	704	1RB_Low	Left		23.67	24.50	0.029	0.04	0.044	0.05	/
23060	704	1RB_Low	Right		23.67	24.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	1RB_Low	Bottom		23.67	24.50	0.013	<0.01	0.025	<0.01	0.06
23060	704	25RB_Low	Front	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Rear	/	22.49	23.50	0.035	0.04	0.049	0.06	/
23060	704	25RB_Low	Left	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Right		22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Bottom		22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	1RB_Low	Rear	S2	23.67	24.50	0.041	0.05	0.057	0.07	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-27: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Low	Front	/	23.67	24.50	0.025	0.03	0.035	0.04	0.12
23060	704	1RB_Low	Rear	Fig.27	23.67	24.50	0.028	0.03	0.037	0.04	-0.09
23060	704	25RB_Low	Front	/	22.49	23.50	<0.01	<0.01	<0.01	<0.01	/
23060	704	25RB_Low	Rear	/	22.49	23.50	0.022	0.03	0.029	0.04	0.10
23060	704	1RB_Low	Rear	S2	23.67	24.50	0.021	0.03	0.030	0.04	0.15

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-28: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26775	822.5	1RB_Low	Left	Touch	/	23.61	25.00	0.031	0.04	0.040	0.06	0.00
26775	822.5	1RB_Low	Left	Tilt	/	23.61	25.00	<0.01	<0.01	<0.01	<0.01	/
26775	822.5	1RB_Low	Right	Touch	Fig.28	23.61	25.00	0.047	0.06	0.062	0.09	-0.09
26775	822.5	1RB_Low	Right	Tilt	/	23.61	25.00	<0.01	<0.01	<0.01	<0.01	/
26775	822.5	36RB_High	Left	Touch		22.79	24.00	0.029	0.04	0.038	0.05	0.03
26775	822.5	36RB_High	Left	Tilt	/	22.79	24.00	<0.01	<0.01	<0.01	<0.01	/
26775	822.5	36RB_High	Right	Touch	/	22.79	24.00	0.041	0.05	0.055	0.07	0.00
26775	822.5	36RB_High	Right	Tilt	/	22.79	24.00	<0.01	<0.01	<0.01	<0.01	/
26775	822.5	1RB_Low	Right	Touch	S2	23.61	25.00	0.041	0.06	0.054	0.07	0.16

Note1: The LTE mode is QPSK_15MHz.

Table 14.1-29: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Front	Fig.29	23.61	25.00	0.069	0.10	0.091	0.13	0.12
26775	822.5	1RB_Low	Rear	/	23.61	25.00	0.046	0.06	0.083	0.11	0.06
26775	822.5	1RB_Low	Left	/	23.61	25.00	0.044	0.06	0.071	0.10	-0.01
26775	822.5	1RB_Low	Right	/	23.61	25.00	0.024	0.03	0.038	0.05	0.04
26775	822.5	1RB_Low	Bottom	/	23.61	25.00	0.026	0.04	0.056	0.08	-0.04
26775	822.5	36RB_High	Front	/	22.79	24.00	0.066	0.09	0.090	0.12	-0.09

26775	822.5	36RB_High	Rear	/	22.79	24.00	0.044	0.06	0.081	0.11	-0.04
26775	822.5	36RB_High	Left	/	22.79	24.00	0.045	0.06	0.074	0.10	-0.01
26775	822.5	36RB_High	Right	/	22.79	24.00	0.018	0.02	0.021	0.03	0.03
26775	822.5	36RB_High	Bottom	/	22.79	24.00	0.024	0.03	0.050	0.07	-0.10
26775	822.5	1RB_Low	Front	S2	23.61	25.00	0.061	0.08	0.083	0.11	0.15

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.1-30: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Front	/	23.61	25.00	0.050	0.07	0.066	0.09	0.13
26775	822.5	1RB_Low	Rear	Fig.30	23.61	25.00	0.061	0.08	0.082	0.11	-0.02
26775	822.5	36RB_High	Front	/	22.79	24.00	0.046	0.06	0.062	0.08	0.03
26775	822.5	36RB_High	Rear	/	22.79	24.00	0.056	0.07	0.076	0.10	-0.10
26775	822.5	1RB_Low	Rear	S2	23.61	25.00	0.054	0.07	0.073	0.10	0.14

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.1-31: SAR Values (LTE Band41- Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB_Low	Left	Touch	/	23.42	24.50	0.052	0.07	0.092	0.12	-0.06
40620	2593	1RB_Low	Left	Tilt	/	23.42	24.50	0.045	0.06	0.083	0.11	-0.06
40620	2593	1RB_Low	Right	Touch	Fig.31	23.42	24.50	0.103	0.13	0.191	0.24	-0.10
40620	2593	1RB_Low	Right	Tilt	/	23.42	24.50	0.042	0.05	0.088	0.11	0.13
40620	2593	50RB_Low	Left	Touch	/	22.54	23.50	0.043	0.05	0.076	0.09	-0.09
40620	2593	50RB_Low	Left	Tilt	/	22.54	23.50	0.037	0.05	0.070	0.09	0.07
40620	2593	50RB_Low	Right	Touch	/	22.54	23.50	0.084	0.10	0.156	0.19	-0.13
40620	2593	50RB_Low	Right	Tilt	/	22.54	23.50	0.034	0.04	0.072	0.09	0.10
40620	2593	1RB_Low	Right	Touch	S2	23.42	24.50	0.087	0.11	0.163	0.21	0.18

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-32: SAR Values (LTE Band41 - Body)

Frequency		Mode	Test Position	Figure No.	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C				
Ch.	MHz				Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
40620	2593	1RB_Low	Front	/	23.27	24.00	0.092	0.11	0.168	0.20	0.07
40620	2593	1RB_Low	Rear	Fig.32	23.27	24.00	0.132	0.16	0.257	0.30	-0.08
40620	2593	1RB_Low	Left	/	23.27	24.00	0.022	0.03	0.039	0.05	0.03
40620	2593	1RB_Low	Right		23.27	24.00	0.041	0.05	0.074	0.09	-0.03
40620	2593	1RB_Low	Bottom	/	23.27	24.00	0.064	0.08	0.129	0.15	0.00
40620	2593	50RB_Low	Front	/	22.38	23.00	0.076	0.09	0.139	0.16	-0.05
40620	2593	50RB_Low	Rear		22.38	23.00	0.108	0.12	0.213	0.25	-0.13
40620	2593	50RB_Low	Left	/	22.38	23.00	0.019	0.02	0.033	0.04	0.04
40620	2593	50RB_Low	Right		22.38	23.00	0.034	0.04	0.061	0.07	-0.02
40620	2593	50RB_Low	Bottom	/	22.38	23.00	0.053	0.06	0.106	0.12	0.13
40620	2593	1RB_Low	Rear	S2	23.27	24.00	0.114	0.13	0.219	0.26	0.15

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.1-33: SAR Values (LTE Band41 - Body)

Frequency		Mode	Test Position	Figure No.	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C				
Ch.	MHz				Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
40620	2593	1RB_Low	Front	/	23.42	24.50	0.051	0.07	0.089	0.11	-0.13
40620	2593	1RB_Low	Rear	Fig.33	23.42	24.50	0.070	0.09	0.132	0.17	-0.09
40620	2593	50RB_Low	Front	/	22.54	23.50	0.042	0.05	0.073	0.09	-0.04
40620	2593	50RB_Low	Rear	/	22.54	23.50	0.069	0.09	0.121	0.15	0.03
40620	2593	1RB_Low	Rear	S2	23.42	24.50	0.062	0.08	0.114	0.15	0.02

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.1-34: SAR Values (LTE Band66 - Head)

Frequency		Mode	Side	Test Position	Figure No.	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C				
Ch.	MHz					Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
132572	1770	1RB_Low	Left	Touch	/	23.27	24.50	0.071	0.09	0.116	0.15	-0.09
132572	1770	1RB_Low	Left	Tilt	/	23.27	24.50	<0.01	<0.01	<0.01	<0.01	/
132572	1770	1RB_Low	Right	Touch	Fig.34	23.27	24.50	0.081	0.11	0.124	0.16	0.10
132572	1770	1RB_Low	Right	Tilt	/	23.27	24.50	0.032	0.04	0.053	0.07	-0.12
132072	1720	50RB_Mid	Left	Touch	/	22.39	23.50	0.040	0.05	0.064	0.08	-0.09

132072	1720	50RB_Mid	Left	Tilt	/	22.39	23.50	<0.01	<0.01	<0.01	<0.01	/
132072	1720	50RB_Mid	Right	Touch	/	22.39	23.50	<0.01	<0.01	<0.01	<0.01	/
132072	1720	50RB_Mid	Right	Tilt	/	22.39	23.50	<0.01	<0.01	<0.01	<0.01	/
132572	1770	1RB_Low	Right	Touch	S2	23.27	24.50	0.075	0.10	0.111	0.15	0.16

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-35: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132572	1770	1RB_Low	Front	/	20.47	21.50	0.157	0.20	0.267	0.34	-0.04
132572	1770	1RB_Low	Rear	/	20.47	21.50	0.275	0.35	0.470	0.60	-0.09
132572	1770	1RB_Low	Left	/	20.47	21.50	0.038	0.05	0.059	0.07	-0.07
132572	1770	1RB_Low	Right	/	20.47	21.50	0.069	0.09	0.124	0.16	0.02
132572	1770	1RB_Low	Bottom	/	20.47	21.50	0.409	0.52	0.734	0.93	-0.12
132322	1745	1RB_Low	Bottom	/	20.46	21.50	0.400	0.51	0.723	0.92	-0.13
132072	1720	1RB_High	Bottom	/	20.42	21.50	0.384	0.49	0.697	0.89	0.13
132072	1720	50RB_Low	Front	/	20.53	21.50	0.166	0.21	0.286	0.36	-0.11
132072	1720	50RB_Low	Rear	/	20.53	21.50	0.293	0.37	0.505	0.63	-0.02
132072	1720	50RB_Low	Left	/	20.53	21.50	0.037	0.05	0.059	0.07	-0.11
132072	1720	50RB_Low	Right	/	20.53	21.50	0.067	0.08	0.118	0.15	-0.06
132572	1770	50RB_High	Bottom	Fig.35	20.45	21.50	0.429	0.55	0.772	0.98	-0.06
132322	1745	50RB_High	Bottom	/	20.47	21.50	0.373	0.47	0.672	0.85	-0.13
132072	1720	50RB_Low	Bottom	/	20.53	21.50	0.401	0.50	0.712	0.89	0.02
132322	1745	100RB	Bottom	/	20.45	21.50	0.391	0.50	0.701	0.89	-0.01
132572	1770	50RB_High	Bottom	S2	20.45	21.50	0.407	0.52	0.731	0.93	0.02
132572	1770	1RB_Low	Bottom	0mm	23.27	24.50	1.43	1.90	2.99	3.97	0.05

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-36: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Front	/	23.27	24.50	0.145	0.19	0.229	0.30	-0.04
132072	1720	1RB_Low	Rear	Fig.36	23.27	24.50	0.314	0.42	0.505	0.67	0.06
132072	1720	50RB_Mid	Front	/	22.39	23.50	0.140	0.18	0.216	0.28	-0.12
132072	1720	50RB_Mid	Rear	/	22.39	23.50	0.247	0.32	0.399	0.52	-0.11
132072	1720	1RB_Low	Rear	S2	23.27	24.50	0.301	0.40	0.476	0.63	0.03

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

14.2 SAR results for Standard procedure(ANT0)

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

Table 14.2-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Touch	Fig.1	32.97	33.50	0.091	0.10	0.116	0.13	0.07

Table 14.2-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	GPRS (3)	Rear	Fig.2	28.76	29.50	0.124	0.15	0.161	0.19	-0.09

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-3: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	GPRS (3)	Rear	Fig.3	28.76	29.50	0.101	0.12	0.131	0.16	0.12

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-4: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Touch	Fig.4	29.83	30.50	0.037	0.04	0.061	0.07	-0.19

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.2-5: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Bottom	Fig.5	25.37	25.50	0.441	0.45	0.788	0.81	0.1

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-6: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Rear	Fig.6	25.91	26.50	0.206	0.24	0.327	0.37	0.07

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-7: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Left	Touch	Fig.7	23.69	25.00	0.070	0.09	0.090	0.12	-0.01
4182	836.4	Left	Touch	/	23.65	25.00	0.061	0.08	0.085	0.12	-0.1

Table 14.2-8: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Rear	Fig.8	23.69	25.00	0.082	0.11	0.109	0.15	-0.13

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-9: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Rear	Fig.9	23.69	25.00	0.055	0.07	0.093	0.13	0.06

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-10: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1412	1732.4	Left	Touch	Fig.10	23.30	24.50	0.053	0.07	0.083	0.11	0.02

Table 14.2-11: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1312	1712.4	Bottom	Fig.11	18.98	20.50	0.303	0.43	0.547	0.78	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-12: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Rear	Fig.12	19.49	21.00	0.109	0.15	0.178	0.25	0.07

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-13: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9262	1852.4	Left	Tilt	Fig.13	23.22	24.50	0.043	0.06	0.074	0.10	0.04

Table 14.2-14: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Bottom	Fig.14	18.35	20.00	0.143	0.21	0.257	0.38	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-15: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Rear	Fig.15	20.36	21.50	0.152	0.20	0.247	0.32	0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-16: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Positio n	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
19100	1900	1RB_Low	Left	Touch	Fig.16	23.31	24.00	0.094	0.11	0.150	0.18	0.09

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-17: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18900	1880	50RB_High	Bottom	Fig.17	19.74	21.00	0.286	0.38	0.515	0.69	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-18: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
19100	1900	1RB_Low	Rear	Fig.18	21.18	22.50	0.195	0.26	0.319	0.43	0.16

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-19: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Low	Right	Touch	Fig.19	23.98	25.00	0.067	0.08	0.087	0.11	0.04

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-20: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Rear	Fig.20	23.98	25.00	0.087	0.11	0.110	0.14	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-21: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Mode	Test Position	Figure No./ Note	Conduc- ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Rear	Fig.21	23.98	25.00	0.078	0.10	0.100	0.13	0.10

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-22: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	1RB_High	Right	Touch	Fig.22	23.11	24.20	0.168	0.22	0.308	0.40	-0.12

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-23: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	50RB_Mid	Rear	Fig.23	20.84	22.00	0.114	0.15	0.216	0.28	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-24: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_High	Rear	Fig.24	20.72	22.00	0.108	0.15	0.200	0.27	0.04

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-25: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB_Low	Left	Touch	Fig.25	23.67	24.50	0.029	0.04	0.037	0.04	-0.02

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-26: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Low	Rear	Fig.26	23.67	24.50	0.047	0.06	0.062	0.08	-0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-27: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Low	Rear	Fig.27	23.67	24.50	0.028	0.03	0.037	0.04	-0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-28: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26775	822.5	1RB_Low	Right	Touch	Fig.28	23.61	25.00	0.047	0.06	0.062	0.09	-0.09

Note1: The LTE mode is QPSK_15MHz.

Table 14.2-29: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Front	Fig.29	23.61	25.00	0.069	0.10	0.091	0.13	0.12

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.2-30: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Rear	Fig.30	23.61	25.00	0.061	0.08	0.082	0.11	-0.02

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.2-31: SAR Values (LTE Band41- Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB_Low	Right	Touch	Fig.31	23.42	24.50	0.103	0.13	0.191	0.24	-0.10

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-32: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	1RB_Low	Rear	Fig.32	23.27	24.00	0.132	0.16	0.257	0.30	-0.08

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.2-33: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	1RB_Low	Rear	Fig.33	23.42	24.50	0.070	0.09	0.132	0.17	-0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.2-34: SAR Values (LTE Band66 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132572	1770	1RB_ Low	Right	Touch	Fig.34	23.27	24.50	0.081	0.11	0.124	0.16	0.10

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-35: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132572	1770	50RB_High	Bottom	Fig.35	20.45	21.50	0.429	0.55	0.772	0.98	-0.06

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-36: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Rear	Fig.36	23.27	24.50	0.314	0.42	0.505	0.67	0.06

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

14.3 SAR results for Fast SAR(ANT1)

Table 14.3-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	Left	Touch	/	31.62	32.50	0.444	0.54	0.675	0.83	0.06
190	836.6	Left	Touch	/	31.71	32.50	0.455	0.55	0.696	0.83	0.11
128	824.2	Left	Touch	/	31.76	32.50	0.466	0.55	0.713	0.85	-0.02
190	836.6	Left	Tilt	/	31.71	32.50	0.346	0.42	0.579	0.69	0.14
251	848.8	Right	Touch	/	31.62	32.50	0.472	0.58	0.756	0.93	0.04
190	836.6	Right	Touch	/	31.71	32.50	0.484	0.58	0.780	0.94	0.12
128	824.2	Right	Touch	Fig.37	31.76	32.50	0.496	0.59	0.799	0.95	-0.06
251	848.8	Right	Tilt	/	31.62	32.50	0.364	0.45	0.651	0.80	0.05
190	836.6	Right	Tilt	/	31.71	32.50	0.373	0.45	0.672	0.81	-0.08
128	824.2	Right	Tilt	/	31.76	32.50	0.382	0.45	0.688	0.82	0.13
128	824.2	Right	Touch	S2	31.76	32.50	0.479	0.57	0.768	0.91	0.02

Table 14.3-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Front	/	28.65	29.50	0.100	0.12	0.128	0.16	-0.11
251	848.8	GPRS (3)	Rear	/	28.48	29.50	0.096	0.12	0.126	0.16	-0.04
190	836.6	GPRS (3)	Rear	Fig.38	28.65	29.50	0.109	0.13	0.142	0.17	-0.09
128	824.2	GPRS (3)	Rear	/	28.80	29.50	0.100	0.12	0.127	0.15	-0.04
190	836.6	GPRS (3)	Left	/	28.65	29.50	0.059	0.07	0.073	0.09	0.02
190	836.6	GPRS (3)	Top	/	28.65	29.50	0.082	0.10	0.117	0.14	-0.03
251	848.8	EGPRS (3)	Rear	/	28.62	29.50	0.089	0.11	0.117	0.14	0.14
251	848.8	GPRS (3)	Rear	S2	28.65	29.50	0.097	0.12	0.129	0.16	0.15

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-3: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Front	/	28.65	29.50	0.088	0.11	0.119	0.14	0.07
251	848.8	GPRS (3)	Rear		28.48	29.50	0.090	0.11	0.123	0.16	0.08
190	836.6	GPRS (3)	Rear	Fig.39	28.65	29.50	0.097	0.12	0.133	0.16	0.13
128	824.2	GPRS (3)	Rear	/	28.80	29.50	0.091	0.11	0.125	0.15	0.07
251	848.8	EGPRS (3)	Rear	/	28.62	29.50	0.091	0.11	0.124	0.15	0.03
251	848.8	GPRS (3)	Rear	S2	28.65	29.50	0.085	0.10	0.116	0.14	-0.01

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.3-4: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducte d Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Touch	/	26.75	27.50	0.120	0.14	0.258	0.31	0.1
661	1880	Left	Tilt	/	26.75	27.50	0.108	0.13	0.241	0.29	-0.11
661	1880	Right	Touch	/	26.75	27.50	0.231	0.27	0.533	0.63	0.06
810	1909.8	Right	Tilt	/	26.77	27.50	0.228	0.27	0.529	0.63	-0.01
661	1880	Right	Tilt	/	26.75	27.50	0.246	0.29	0.567	0.67	-0.01
512	1850.2	Right	Tilt	Fig.40	26.71	27.50	0.262	0.31	0.606	0.73	-0.12
512	1850.2	Right	Tilt	S2	26.71	27.50	0.257	0.31	0.583	0.70	0.07

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.3-5: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Front	/	25.15	26.00	0.112	0.14	0.202	0.25	-0.03
661	1880	GPRS (3)	Rear	/	25.15	26.00	0.125	0.15	0.226	0.27	0.07
661	1880	GPRS (3)	Left	/	25.15	26.00	<0.01	<0.01	<0.01	<0.01	/
810	1909.8	GPRS (3)	Top	Fig.41	25.14	26.00	0.210	0.26	0.424	0.52	0
661	1880	GPRS (3)	Top	/	25.15	26.00	0.194	0.24	0.404	0.49	-0.09
512	1850.2	GPRS (3)	Top	/	25.27	26.00	0.177	0.21	0.366	0.43	0.09
661	1880	EGPRS (3)	Top	/	25.22	26.00	0.204	0.24	0.414	0.50	0.16
661	1880	GPRS (3)	Top	S2	25.14	26.00	0.196	0.24	0.401	0.49	0.03

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-6: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Front	/	25.96	26.50	0.220	0.25	0.401	0.45	0.11
810	1909.8	GPRS (3)	Rear	Fig.42	25.98	26.50	0.254	0.29	0.442	0.50	-0.12
661	1880	GPRS (3)	Rear	/	25.96	26.50	0.244	0.28	0.427	0.48	0.07
512	1850.2	GPRS (3)	Rear	/	26.05	26.50	0.245	0.27	0.419	0.46	-0.12
810	1909.8	EGPRS (3)	Rear	/	25.88	26.50	0.237	0.27	0.419	0.48	0.15
810	1909.8	GPRS (3)	Rear	S2	25.98	26.50	0.231	0.26	0.411	0.46	0.19

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.3-7: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Left	Touch		22.90	23.50	0.464	0.53	0.706	0.81	0.12
4182	836.4	Left	Touch	/	23.00	23.50	0.506	0.57	0.761	0.85	-0.03
4132	826.4	Left	Touch	/	23.10	23.50	0.518	0.57	0.788	0.86	0.08
4182	836.4	Left	Tilt	/	23.00	23.50	0.394	0.44	0.648	0.73	-0.06
4233	846.6	Right	Touch	/	22.90	23.50	0.473	0.54	0.749	0.86	-0.01
4182	836.4	Right	Touch	/	23.00	23.50	0.516	0.58	0.807	0.91	0.13
4132	826.4	Right	Touch	Fig.43	23.10	23.50	0.528	0.58	0.836	0.92	-0.05
4233	846.6	Right	Tilt	/	22.90	23.50	0.369	0.42	0.663	0.76	0.02
4182	836.4	Right	Tilt	/	23.00	23.50	0.402	0.45	0.714	0.80	0.04
4132	826.4	Right	Tilt	/	23.10	23.50	0.411	0.45	0.740	0.81	0.16
4132	826.4	Right	Touch	S2	23.10	23.50	0.507	0.56	0.772	0.85	0.19

Table 14.3-8: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Front	/	23.49	25.00	0.108	0.15	0.163	0.23	0.08
4233	846.6	Rear	/	23.41	25.00	0.105	0.15	0.174	0.25	-0.11
4182	836.4	Rear	Fig.44	23.49	25.00	0.147	0.21	0.232	0.33	0.01
4132	826.4	Rear	/	23.44	25.00	0.096	0.14	0.156	0.22	-0.05
4182	836.4	Left	/	23.49	25.00	0.052	0.07	0.080	0.11	0.06
4182	836.4	Top	/	23.49	25.00	0.089	0.13	0.159	0.23	-0.13
4182	836.4	Rear	S2	23.49	25.00	0.134	0.19	0.219	0.31	0.08

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-9: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Front	/	23.49	25.00	0.093	0.13	0.143	0.20	0.08
4233	846.6	Rear	Fig.45	23.41	25.00	0.111	0.16	0.156	0.22	-0.12
4182	836.4	Rear	/	23.49	25.00	0.087	0.12	0.131	0.19	-0.1
4132	826.4	Rear	/	23.44	25.00	0.082	0.12	0.123	0.18	0.05
4233	846.6	Rear	S2	23.41	25.00	0.104	0.15	0.141	0.20	0.16

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.3-10: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1412	1732.4	Left	Touch	/	15.40	17.00	0.202	0.29	0.420	0.61	0.04
1412	1732.4	Left	Tilt	/	15.40	17.00	0.227	0.33	0.503	0.73	0.05
1513	1752.6	Right	Touch	/	15.42	17.00	0.301	0.43	0.636	0.92	0.02
1412	1732.4	Right	Touch	/	15.40	17.00	0.273	0.39	0.578	0.84	-0.09
1312	1712.4	Right	Touch	/	15.41	17.00	0.235	0.34	0.497	0.72	0.19
1513	1752.6	Right	Tilt	Fig.46	15.42	17.00	0.356	0.51	0.816	1.17	0.08
1412	1732.4	Right	Tilt	/	15.40	17.00	0.323	0.47	0.742	1.07	0.06
1312	1712.4	Right	Tilt	/	15.41	17.00	0.278	0.40	0.638	0.92	-0.09
1513	1752.6	Right	Tilt	S2	15.42	17.00	0.329	0.47	0.758	1.09	0.17

Table 14.3-11: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	18.83	20.50	0.139	0.20	0.264	0.39	-0.04
1412	1732.4	Rear	/	18.83	20.50	0.115	0.17	0.210	0.31	-0.01
1412	1732.4	Left	/	18.83	20.50	0.096	0.14	0.180	0.26	0.12
1513	1752.6	Top	Fig.47	18.89	20.50	0.227	0.33	0.455	0.66	-0.13
1412	1732.4	Top	/	18.83	20.50	0.155	0.23	0.320	0.47	0.05
1312	1712.4	Top	/	18.94	20.50	0.163	0.23	0.329	0.47	0.04
1513	1752.6	Top	S2	18.89	20.50	0.209	0.30	0.431	0.62	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-12: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	20.35	22.00	0.061	0.09	0.110	0.16	0.06
1513	1752.6	Rear	Fig.48	20.44	22.00	0.093	0.13	0.163	0.23	-0.03
1412	1732.4	Rear	/	20.35	22.00	0.082	0.12	0.143	0.21	0.01
1312	1712.4	Rear	/	20.43	22.00	0.067	0.10	0.117	0.17	0.07
1513	1752.6	Rear	S2	20.44	22.00	0.086	0.12	0.152	0.22	0.17

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.3-13: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Touch	/	15.41	17.00	0.165	0.24	0.324	0.47	-0.06
9400	1880	Left	Tilt	/	15.41	17.00	0.238	0.34	0.475	0.69	0.02
9400	1880	Right	Touch	/	15.41	17.00	0.244	0.35	0.469	0.68	0.05
9538	1907.6	Right	Tilt	/	15.43	17.00	0.339	0.49	0.695	1.00	0.06
9400	1880	Right	Tilt	/	15.41	17.00	0.370	0.53	0.741	1.07	-0.01
9262	1852.4	Right	Tilt	Fig.49	15.65	17.00	0.370	0.50	0.875	1.19	-0.11
9262	1852.4	Right	Tilt	S2	15.65	17.00	0.342	0.47	0.711	0.97	0.16

Table 14.3-14: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	17.78	19.50	0.118	0.18	0.235	0.35	0.05
9400	1880	Rear	/	17.78	19.50	0.140	0.21	0.262	0.39	0.04
9400	1880	Left		17.78	19.50	0.044	0.07	0.091	0.14	0.04
9538	1907.6	Top	Fig.50	17.75	19.50	0.180	0.27	0.374	0.56	-0.09
9400	1880	Top	/	17.78	19.50	0.169	0.25	0.363	0.54	0.05
9262	1852.4	Top	/	17.80	19.50	0.167	0.25	0.350	0.52	0.03
9538	1907.6	Top	S2	17.75	19.50	0.174	0.26	0.351	0.53	0.02

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-15: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	20.22	21.50	0.062	0.08	0.121	0.16	0.09
9538	1907.6	Rear	/	20.16	21.50	0.108	0.15	0.194	0.26	-0.1
9400	1880	Rear	Fig.51	20.22	21.50	0.114	0.15	0.202	0.27	0.05
9262	1852.4	Rear	/	20.30	21.50	0.094	0.12	0.169	0.22	0.01
9400	1880	Rear	S2	20.22	21.50	0.107	0.14	0.183	0.25	0.07

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.3-16: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
19100	1900	1RB_Mid	Left	Touch	/	15.45	17.00	0.128	0.18	0.259	0.37	0.11
19100	1900	1RB_Mid	Left	Tilt	Fig.52	15.45	17.00	0.265	0.38	0.529	0.76	-0.10
19100	1900	1RB_Mid	Right	Touch	/	15.45	17.00	0.117	0.17	0.268	0.38	-0.03
19100	1900	1RB_Mid	Right	Tilt	/	15.45	17.00	0.184	0.26	0.443	0.63	0.04
18700	1860	50RB_High	Left	Touch	/	15.50	17.00	0.131	0.19	0.260	0.37	0.10
18700	1860	50RB_High	Left	Tilt	/	15.50	17.00	0.262	0.37	0.521	0.74	-0.08
18700	1860	50RB_High	Right	Touch	/	15.50	17.00	0.117	0.17	0.271	0.38	0.08
18700	1860	50RB_High	Right	Tilt	/	15.50	17.00	0.185	0.26	0.448	0.63	-0.01
19100	1900	1RB_Mid	Left	Tilt	S2	15.45	17.00	0.242	0.35	0.498	0.71	-0.07

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-17: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18900	1880	1RB_Mid	Front	/	18.57	20.00	0.134	0.19	0.269	0.37	-0.04
18900	1880	1RB_Mid	Rear	/	18.57	20.00	0.143	0.20	0.271	0.38	-0.01
18900	1880	1RB_Mid	Left	/	18.57	20.00	0.031	0.04	0.057	0.08	-0.05
19100	1900	1RB_Mid	Top	Fig.53	18.57	20.00	0.277	0.39	0.582	0.81	-0.01
18900	1880	1RB_Mid	Top		18.48	20.00	0.263	0.37	0.551	0.78	0.03
18700	1860	1RB_Mid	Top		18.41	20.00	0.263	0.38	0.551	0.79	-0.05
18700	1860	50RB_ Mid	Front	/	18.64	20.00	0.151	0.21	0.312	0.43	0.07
18700	1860	50RB_ Mid	Rear	/	18.64	20.00	0.151	0.21	0.287	0.39	-0.11

18700	1860	50RB_Mid	Left	/	18.64	20.00	0.034	0.05	0.062	0.08	0.03
19100	1900	50RB_High	Top	/	18.63	20.00	0.266	0.36	0.562	0.77	0.15
18900	1880	50RB_High	Top	/	18.60	20.00	0.268	0.37	0.562	0.78	0.07
18700	1860	50RB_Mid	Top	/	18.64	20.00	0.269	0.37	0.586	0.80	-0.12
18700	1860	100RB	Top	/	18.58	20.00	0.259	0.36	0.547	0.76	0.13
19100	1900	1RB_Mid	Top	S2	18.57	20.00	0.134	0.19	0.269	0.37	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-18: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
19100	1900	1RB_Low	Front	/	21.13	22.00	0.099	0.12	0.193	0.24	0.07
19100	1900	1RB_Low	Rear	Fig.54	21.13	22.00	0.140	0.17	0.249	0.30	-0.09
18700	1860	50RB_Mid	Front	/	21.30	22.00	0.079	0.09	0.154	0.18	0.12
18700	1860	50RB_Mid	Rear	/	21.30	22.00	0.110	0.13	0.198	0.23	0.09
19100	1900	1RB_Low	Rear		21.13	22.00	0.134	0.16	0.237	0.29	0.16

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-19: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Mid	Left	Touch	/	21.81	23.00	0.307	0.40	0.453	0.60	0.04
20450	829	1RB_Mid	Left	Tilt	/	21.81	23.00	0.296	0.39	0.462	0.61	0.02
20450	829	1RB_Mid	Right	Touch	Fig.55	21.81	23.00	0.374	0.49	0.589	0.77	0.13
20450	829	1RB_Mid	Right	Tilt	/	21.81	23.00	0.331	0.44	0.545	0.72	-0.01
20525	836.5	25RB_High	Left	Touch	/	21.71	23.00	0.247	0.33	0.361	0.49	0.00
20525	836.5	25RB_High	Left	Tilt	/	21.71	23.00	0.239	0.32	0.373	0.50	0.13
20525	836.5	25RB_High	Right	Touch	/	21.71	23.00	0.305	0.41	0.480	0.65	-0.06
20525	836.5	25RB_High	Right	Tilt	/	21.71	23.00	0.265	0.36	0.434	0.58	-0.13
20450	829	1RB_Mid	Right	Touch	S2	21.81	23.00	0.325	0.43	0.537	0.71	0.02

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-20: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Mid	Front	/	23.75	25.00	0.083	0.11	0.120	0.16	-0.08
20450	829	1RB_Mid	Rear	Fig.56	23.75	25.00	0.127	0.17	0.191	0.25	-0.13
20450	829	1RB_Mid	Left	/	23.75	25.00	0.052	0.07	0.074	0.10	0.03
20450	829	1RB_Mid	Top	/	23.75	25.00	0.089	0.12	0.158	0.21	-0.08
20450	829	25RB_Mid	Front	/	22.84	24.00	0.065	0.08	0.094	0.12	0.01
20450	829	25RB_Mid	Rear	/	22.84	24.00	0.101	0.13	0.152	0.20	-0.05
20450	829	25RB_Mid	Left	/	22.84	24.00	0.042	0.05	0.059	0.08	0.13
20450	829	25RB_Mid	Top	/	22.84	24.00	0.072	0.09	0.128	0.17	0.05
20450	829	1RB_Mid	Rear	S2	23.75	25.00	0.114	0.15	0.173	0.23	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-21: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Mid	Front	/	23.75	25.00	0.096	0.13	0.124	0.17	-0.07
20450	829	1RB_Mid	Rear	Fig.57	23.75	25.00	0.097	0.13	0.125	0.17	0.09
20450	829	25RB_Mid	Front	/	22.84	24.00	0.076	0.10	0.100	0.13	0.13
20450	829	25RB_Mid	Rear	/	22.84	24.00	0.077	0.10	0.100	0.13	-0.07
20450	829	1RB_Mid	Rear	S2	23.75	25.00	0.091	0.12	0.117	0.16	0.03

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-22: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	1RB_High	Left	Touch	/	15.62	17.00	0.065	0.09	0.152	0.21	0.08
21350	2560	1RB_High	Left	Tilt	/	15.62	17.00	0.087	0.12	0.211	0.29	0.03
21350	2560	1RB_High	Right	Touch	/	15.62	17.00	0.258	0.35	0.606	0.83	-0.02
21100	2535	1RB_Mid	Right	Touch	/	15.60	17.00	0.232	0.32	0.509	0.70	0.16

20850	2510	1RB_High	Right	Touch	/	15.56	17.00	0.190	0.26	0.440	0.61	0.02
21350	2560	1RB_High	Right	Tilt	/	15.62	17.00	0.249	0.34	0.614	0.84	-0.10
21100	2535	1RB_Mid	Right	Tilt	/	15.60	17.00	0.246	0.34	0.607	0.84	0.16
20850	2510	1RB_High	Right	Tilt	/	15.56	17.00	0.198	0.28	0.563	0.78	0.18
21350	2560	50RB_Low	Left	Touch	/	15.81	17.00	0.070	0.09	0.162	0.21	0.09
21350	2560	50RB_Low	Left	Tilt	/	15.81	17.00	0.093	0.12	0.227	0.30	-0.07
21350	2560	50RB_Low	Right	Touch	/	15.81	17.00	0.270	0.36	0.634	0.83	0.02
21100	2535	50RB_Low	Right	Touch	/	15.68	17.00	0.200	0.27	0.489	0.66	0.02
20850	2510	50RB_Mid	Right	Touch	/	15.75	17.00	0.184	0.25	0.453	0.60	0.16
21350	2560	50RB_Low	Right	Tilt	Fig.58	15.81	17.00	0.267	0.35	0.665	0.87	0.05
21100	2535	50RB_Low	Right	Tilt	/	15.68	17.00	0.246	0.33	0.613	0.83	0.08
20850	2510	50RB_Mid	Right	Tilt	/	15.75	17.00	0.227	0.30	0.561	0.75	0.17
21350	2560	100RB	Right	Touch	/	15.88	17.00	0.209	0.27	0.504	0.65	0.03
21350	2560	100RB	Right	Tilt	/	15.88	17.00	0.260	0.34	0.646	0.84	0.15
21350	2560	1RB_High	Right	Touch	S2	15.81	17.00	0.253	0.33	0.637	0.84	12.00

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-23: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_Mid	Front	/	19.48	21.00	0.074	0.11	0.151	0.21	0.05
21350	2560	1RB_Mid	Rear	/	19.48	21.00	0.169	0.24	0.379	0.54	-0.11
21350	2560	1RB_Mid	Left	/	19.48	21.00	0.068	0.10	0.138	0.20	0.13
21350	2560	1RB_Mid	Top	/	19.48	21.00	0.187	0.27	0.447	0.63	-0.05
21350	2560	50RB_Mid	Front	/	19.75	21.00	0.079	0.11	0.159	0.21	-0.13
21350	2560	50RB_Mid	Rear	/	19.75	21.00	0.188	0.25	0.418	0.56	0.07
21350	2560	50RB_Mid	Left	/	19.75	21.00	0.077	0.10	0.155	0.21	0.06
21350	2560	50RB_Mid	Top	Fig.59	19.75	21.00	0.195	0.26	0.467	0.62	-0.11
21350	2560	50RB_Mid	Top	S2	19.75	21.00	0.174	0.23	0.443	0.59	0.05

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-24: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_Mid	Front	/	19.48	21.00	0.037	0.05	0.068	0.10	0.16
21350	2560	1RB_Mid	Rear	Fig.60	19.48	21.00	0.069	0.10	0.138	0.20	0.07
21350	2560	50RB_Mid	Front	/	19.75	21.00	0.030	0.04	0.054	0.07	0.09
21350	2560	50RB_Mid	Rear	/	19.75	21.00	0.057	0.08	0.114	0.15	-0.11
21350	2560	1RB_Mid	Rear	S2	19.48	21.00	0.061	0.09	0.123	0.17	0.16

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-25: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C							Liquid Temperature: 22.5°C					
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB_Mid	Left	Touch	/	23.23	24.50	0.262	0.35	0.434	0.58	-0.06
23060	704	1RB_Mid	Left	Tilt	/	23.23	24.50	0.242	0.32	0.447	0.60	0.07
23060	704	1RB_Mid	Right	Touch	/	23.23	24.50	0.258	0.35	0.429	0.57	-0.10
23060	704	1RB_Mid	Right	Tilt	Fig.61	23.23	24.50	0.288	0.39	0.587	0.79	0.08
23060	704	25RB_High	Left	Touch	/	22.26	23.50	0.213	0.28	0.352	0.47	0.06
23060	704	25RB_High	Left	Tilt	/	22.26	23.50	0.203	0.27	0.373	0.50	-0.11
23060	704	25RB_High	Right	Touch	/	22.26	23.50	0.209	0.28	0.348	0.46	0.02
23060	704	25RB_High	Right	Tilt	/	22.26	23.50	0.240	0.32	0.493	0.66	0.06
23060	704	1RB_Low	Right	Tilt	S2	23.23	24.50	0.263	0.35	0.543	0.73	0.17

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-26: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Mid	Front	/	23.23	24.50	0.076	0.10	0.100	0.13	-0.10
23060	704	1RB_Mid	Rear	Fig.62	23.23	24.50	0.090	0.12	0.117	0.16	0.12
23060	704	1RB_Mid	Left	/	23.23	24.50	0.084	0.11	0.103	0.14	0.01
23060	704	1RB_Mid	Top	/	23.23	24.50	0.038	0.05	0.068	0.09	0.13
23060	704	25RB_High	Front	/	22.26	23.50	0.060	0.08	0.077	0.10	-0.11

23060	704	25RB_High	Rear	/	22.26	23.50	0.070	0.09	0.090	0.12	0.07
23060	704	25RB_High	Left	/	22.26	23.50	0.069	0.09	0.083	0.11	0.14
23060	704	25RB_High	Top		22.26	23.50	0.031	0.04	0.054	0.07	0.04
23060	704	1RB_Mid	Left	S2	23.23	24.50	0.083	0.11	0.118	0.16	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-27: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Mid	Front	/	23.23	24.50	0.056	0.08	0.072	0.10	-0.10
23060	704	1RB_Mid	Rear	Fig.63	23.23	24.50	0.061	0.08	0.080	0.11	0.08
23060	704	25RB_High	Front	/	22.26	23.50	0.045	0.06	0.058	0.08	-0.09
23060	704	25RB_High	Rear	/	22.26	23.50	0.050	0.07	0.067	0.09	-0.03
23060	704	1RB_Mid	Rear	S2	23.23	24.50	0.053	0.07	0.071	0.10	-0.12

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-28: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C							Liquid Temperature: 22.5°C					
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26775	822.5	1RB_Low	Left	Touch	/	23.32	24.00	0.304	0.36	0.520	0.61	0.09
26775	822.5	1RB_Low	Left	Tilt	/	23.32	24.00	0.326	0.38	0.537	0.63	-0.02
26965	841.5	1RB_Low	Right	Touch	/	23.27	24.00	0.443	0.52	0.701	0.83	-0.10
26865	831.5	1RB_Low	Right	Touch	Fig.64	23.31	24.00	0.529	0.62	0.831	0.97	0.03
26775	822.5	1RB_Low	Right	Touch	/	23.32	24.00	0.511	0.60	0.800	0.94	-0.05
26775	822.5	1RB_Low	Right	Tilt	/	23.32	24.00	0.308	0.36	0.555	0.65	0.10
26775	822.5	36RB_High	Left	Touch	/	22.38	23.00	0.271	0.31	0.409	0.47	-0.09
26775	822.5	36RB_High	Left	Tilt	/	22.38	23.00	0.254	0.29	0.421	0.49	0.09
26965	841.5	36RB_Low	Right	Touch	/	22.33	23.00	0.388	0.45	0.669	0.78	0.03
26865	831.5	36RB_High	Right	Touch	/	22.36	23.00	0.464	0.54	0.794	0.92	-0.08
26775	822.5	36RB_High	Right	Touch	/	22.38	23.00	0.448	0.52	0.764	0.88	0.10
26775	822.5	36RB_High	Right	Tilt	/	22.38	23.00	0.315	0.36	0.689	0.79	-0.06
26775	822.5	100RB	Right	Touch	/	22.38	23.00	0.232	0.27	0.447	0.52	0.10
26865	831.5	1RB_Low	Right	Touch	S2	23.31	24.00	0.507	0.59	0.783	0.92	0.03

Note1: The LTE mode is QPSK_15MHz.

Table 14.3-29: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Front	/	23.56	25.00	0.142	0.20	0.194	0.27	0.04
26775	822.5	1RB_Low	Rear	Fig.65	23.56	25.00	0.149	0.21	0.214	0.30	0.09
26775	822.5	1RB_Low	Left	/	23.56	25.00	0.091	0.13	0.124	0.17	0.03
26775	822.5	1RB_Low	Bottom	/	23.56	25.00	0.074	0.10	0.125	0.17	-0.01
26775	822.5	36RB_Mid	Front	/	22.57	24.00	0.124	0.17	0.169	0.23	-0.10
26775	822.5	36RB_Mid	Rear	/	22.57	24.00	0.130	0.18	0.187	0.26	0.01
26775	822.5	36RB_Mid	Left	/	22.57	24.00	0.072	0.10	0.098	0.14	-0.09
26775	822.5	36RB_Mid	Bottom	/	22.57	24.00	0.065	0.09	0.109	0.15	-0.02
26775	822.5	1RB_Low	Rear	S2	23.56	25.00	0.134	0.19	0.201	0.28	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.3-30: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Front	/	23.56	25.00	0.079	0.11	0.103	0.14	0.05
26775	822.5	1RB_Low	Rear	Fig.66	23.56	25.00	0.082	0.11	0.108	0.15	0.07
26775	822.5	36RB_Mid	Front	/	22.57	24.00	0.068	0.09	0.086	0.12	0.13
26775	822.5	36RB_Mid	Rear	/	22.57	24.00	0.068	0.09	0.087	0.12	0.09
26775	822.5	1RB_Low	Rear	S2	23.56	25.00	0.076	0.11	0.101	0.14	0.03

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.3-31: SAR Values (LTE Band41- Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB_Low	Left	Touch	/	16.28	17.50	0.045	0.06	0.097	0.13	0.07
40620	2593	1RB_Low	Left	Tilt	/	16.28	17.50	0.059	0.08	0.130	0.17	-0.11
40620	2593	1RB_Low	Right	Touch	/	16.28	17.50	0.128	0.17	0.284	0.38	-0.04
40620	2593	1RB_Low	Right	Tilt	Fig.67	16.28	17.50	0.136	0.18	0.338	0.45	0.05

40620	2593	50RB_Low	Left	Touch	/	16.28	17.50	0.043	0.06	0.091	0.12	0.09
40620	2593	50RB_Low	Left	Tilt	/	16.28	17.50	0.059	0.08	0.127	0.17	-0.08
40620	2593	50RB_Low	Right	Touch	/	16.28	17.50	0.126	0.17	0.285	0.38	-0.03
40620	2593	50RB_Low	Right	Tilt	/	16.28	17.50	0.136	0.18	0.337	0.45	0.06
40620	2593	1RB_Low	Right	Tilt	S2	16.28	17.50	0.129	0.17	0.319	0.42	0.18

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-32: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	1RB_Low	Front	/	22.79	23.00	0.077	0.08	0.150	0.16	-0.01
40620	2593	1RB_Low	Rear	/	22.79	23.00	0.129	0.14	0.276	0.29	0.01
40620	2593	1RB_Low	Left	/	22.79	23.00	0.077	0.08	0.141	0.15	0.10
40620	2593	1RB_Low	Top	/	22.79	23.00	0.165	0.17	0.395	0.41	-0.04
40620	2593	50RB_Low	Front	/	22.39	23.00	0.079	0.09	0.153	0.18	0.03
40620	2593	50RB_Low	Rear		22.39	23.00	0.134	0.15	0.282	0.32	0.02
40620	2593	50RB_Low	Left	/	22.39	23.00	0.078	0.09	0.143	0.16	0.09
40620	2593	50RB_Low	Top	Fig.68	22.39	23.00	0.168	0.19	0.400	0.46	-0.03
40620	2593	50RB_Low	Top	S2	22.39	23.00	0.147	0.17	0.382	0.44	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.3-33: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	1RB_Low	Front	/	23.27	24.50	0.058	0.08	0.105	0.14	0.06
40620	2593	1RB_Low	Rear	Fig.69	23.27	24.50	0.081	0.11	0.170	0.23	0.12
40620	2593	50RB_Low	Front	/	22.40	23.50	0.050	0.06	0.093	0.12	0.07
40620	2593	50RB_Low	Rear	/	22.40	23.50	0.069	0.09	0.138	0.18	0.01
40620	2593	1RB_Low	Rear	S2	23.27	24.50	0.074	0.10	0.137	0.18	0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.3-34: SAR Values (LTE Band66 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132072	1720	1RB_Low	Left	Touch	/	12.79	14.00	0.103	0.14	0.202	0.27	-0.05
132072	1720	1RB_Low	Left	Tilt	/	12.79	14.00	0.117	0.15	0.252	0.33	-0.08
132072	1720	1RB_Low	Right	Touch	/	12.79	14.00	0.114	0.15	0.242	0.32	0.13
132072	1720	1RB_Low	Right	Tilt	/	12.79	14.00	0.142	0.19	0.311	0.41	0.00
132072	1720	50RB_Low	Left	Touch	/	12.85	14.00	0.107	0.14	0.214	0.28	0.04
132072	1720	50RB_Low	Left	Tilt	/	12.85	14.00	0.121	0.16	0.260	0.34	0.10
132072	1720	50RB_Low	Right	Touch	/	12.85	14.00	0.124	0.16	0.262	0.34	-0.02
132072	1720	50RB_Low	Right	Tilt	Fig.70	12.85	14.00	0.147	0.19	0.339	0.44	0.08
132072	1720	50RB_Low	Right	Tilt	S2	12.85	14.00	0.129	0.17	0.315	0.41	0.01

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-35: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Front	/	20.31	21.00	0.118	0.14	0.233	0.27	0.08
132072	1720	1RB_Low	Rear	/	20.31	21.00	0.104	0.12	0.197	0.23	-0.02
132072	1720	1RB_Low	Left	/	20.31	21.00	0.079	0.09	0.150	0.18	0.06
132072	1720	1RB_Low	Top	Fig.71	20.31	21.00	0.167	0.20	0.347	0.41	0.09
132072	1720	50RB_Low	Front	/	20.49	21.00	0.119	0.13	0.233	0.26	0.06
132072	1720	50RB_Low	Rear	/	20.49	21.00	0.101	0.11	0.193	0.22	0.07
132072	1720	50RB_Low	Left	/	20.49	21.00	0.075	0.08	0.141	0.16	-0.04
132072	1720	50RB_Low	Top		20.49	21.00	0.165	0.19	0.343	0.39	-0.02
132072	1720	1RB_Low	Top	S2	20.31	21.00	0.153	0.18	0.329	0.39	0.05

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-36: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Front	/	23.18	24.50	0.114	0.15	0.196	0.27	0.05
132072	1720	1RB_Low	Rear	Fig.72	23.18	24.50	0.128	0.17	0.224	0.30	0.17
132072	1720	50RB_Low	Front	/	22.20	23.50	0.097	0.13	0.167	0.23	0.03
132072	1720	50RB_Low	Rear	/	22.20	23.50	0.111	0.15	0.193	0.26	0.09
132072	1720	1RB_Low	Rear	S2	23.18	24.50	0.114	0.15	0.203	0.28	0.15

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-37: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Touch	/	29.87	30.50	0.109	0.13	0.168	0.19	0.11
190	836.6	Left	Tilt	/	29.87	30.50	0.067	0.08	0.111	0.13	-0.07
190	836.6	Right	Touch	/	29.87	30.50	0.172	0.20	0.294	0.34	-0.08
251	848.8	Right	Tilt	/	29.67	30.50	0.157	0.19	0.311	0.38	0.05
190	836.6	Right	Tilt	/	29.87	30.50	0.187	0.22	0.391	0.45	-0.11
128	824.2	Right	Tilt	/	29.97	30.50	0.183	0.21	0.378	0.43	0.19

Note1: The data is used for Simultaneous transmission

Table 14.3-38: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4182	836.4	Left	Touch	/	19.96	21.50	0.101	0.14	0.141	0.20	-0.13
4182	836.4	Left	Tilt	/	19.96	21.50	0.100	0.14	0.159	0.23	0.13
4233	846.6	Right	Touch	/	19.97	21.50	0.113	0.16	0.177	0.25	0.07
4182	836.4	Right	Touch	/	19.96	21.50	0.129	0.18	0.199	0.28	0.01
4132	826.4	Right	Touch	/	20.08	21.50	0.138	0.19	0.216	0.30	0
4182	836.4	Right	Tilt	/	19.96	21.50	0.121	0.17	0.237	0.34	-0.12

Note1: The data is used for Simultaneous transmission

Table 14.3-39: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1412	1732.4	Left	Touch	/	13.90	15.50	0.093	0.13	0.177	0.26	-0.02
1412	1732.4	Left	Tilt	/	13.90	15.50	0.133	0.19	0.270	0.39	0.03
1412	1732.4	Right	Touch	/	13.90	15.50	0.127	0.18	0.271	0.39	0.02
1513	1752.6	Right	Tilt	/	13.85	15.50	0.166	0.24	0.396	0.58	0.05
1412	1732.4	Right	Tilt	/	13.90	15.50	0.173	0.25	0.404	0.58	-0.04
1312	1712.4	Right	Tilt	/	13.89	15.50	0.161	0.23	0.374	0.54	-0.05

Note1: The data is used for Simultaneous transmission

Table 14.3-40: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Touch	/	13.78	15.50	0.092	0.14	0.189	0.28	0.01
9400	1880	Left	Tilt	/	13.78	15.50	0.138	0.21	0.302	0.45	-0.06
9400	1880	Right	Touch	/	13.78	15.50	0.121	0.18	0.306	0.45	-0.13
9538	1907.6	Right	Tilt	/	13.72	15.50	0.172	0.26	0.413	0.62	-0.04
9400	1880	Right	Tilt	/	13.78	15.50	0.178	0.26	0.424	0.63	0.04
9262	1852.4	Right	Tilt	/	13.77	15.50	0.176	0.26	0.419	0.62	0.16

Note1: The data is used for Simultaneous transmission

Table 14.3-41: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18900	1880	1RB_Low	Left	Touch	/	14.14	15.50	0.127	0.17	0.281	0.38	-0.13
18900	1880	1RB_Low	Left	Tilt	/	14.14	15.50	0.174	0.24	0.396	0.54	-0.02
18900	1880	1RB_Low	Right	Touch	/	14.14	15.50	0.197	0.27	0.427	0.58	0.07
18900	1880	1RB_Low	Right	Tilt	/	14.14	15.50	0.249	0.34	0.570	0.78	-0.05
19100	1900	50RB_Low	Left	Touch	/	14.23	15.50	0.120	0.16	0.265	0.36	0.08
19100	1900	50RB_Low	Left	Tilt	/	14.23	15.50	0.167	0.22	0.382	0.51	-0.02
19100	1900	50RB_Low	Right	Touch	/	14.23	15.50	0.188	0.25	0.410	0.55	-0.13
19100	1900	50RB_Low	Right	Tilt	/	14.23	15.50	0.233	0.31	0.537	0.72	-0.05

Note1: The LTE mode is QPSK_20MHz.

Note2: The data is used for Simultaneous transmission

Table 14.3-42: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Low	Left	Touch	/	20.76	22.00	0.214	0.28	0.290	0.39	-0.04
20450	829	1RB_Low	Left	Tilt	/	20.76	22.00	0.205	0.27	0.306	0.41	0.04
20450	829	1RB_Low	Right	Touch	/	20.76	22.00	0.249	0.33	0.397	0.53	0.07
20450	829	1RB_Low	Right	Tilt	/	20.76	22.00	0.216	0.29	0.379	0.50	-0.07
20450	829	25RB_High	Left	Touch	/	20.80	22.00	0.201	0.26	0.271	0.36	-0.05
20450	829	25RB_High	Left	Tilt	/	20.80	22.00	0.189	0.25	0.281	0.37	0.01
20450	829	25RB_High	Right	Touch	/	20.80	22.00	0.236	0.31	0.371	0.49	0.03
20450	829	25RB_High	Right	Tilt	/	20.80	22.00	0.204	0.27	0.362	0.48	-0.13

Note1: The LTE mode is QPSK_10MHz.

Note2: The data is used for Simultaneous transmission

Table 14.3-43: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB_Mid	Left	Touch	/	23.13	24.00	0.163	0.20	0.240	0.29	-0.13
23060	704	1RB_Mid	Left	Tilt	/	23.13	24.00	0.164	0.20	0.269	0.33	-0.13
23060	704	1RB_Mid	Right	Touch	/	23.13	24.00	0.206	0.25	0.336	0.41	-0.08
23060	704	1RB_Mid	Right	Tilt	/	23.13	24.00	0.200	0.24	0.394	0.48	0.04
23060	704	25RB_High	Left	Touch	/	21.96	23.00	0.159	0.20	0.228	0.29	0.03
23060	704	25RB_High	Left	Tilt	/	21.96	23.00	0.153	0.19	0.252	0.32	0.08
23060	704	25RB_High	Right	Touch	/	21.96	23.00	0.185	0.24	0.302	0.38	0.11
23060	704	25RB_High	Right	Tilt	/	21.96	23.00	0.184	0.23	0.365	0.46	0.11

Note1: The LTE mode is QPSK_10MHz.

Note2: The data is used for Simultaneous transmission

Table 14.3-44: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26775	822.5	1RB_Low	Left	Touch	/	21.18	22.50	0.177	0.24	0.247	0.33	0.00
26775	822.5	1RB_Low	Left	Tilt	/	21.18	22.50	0.169	0.23	0.259	0.35	0.03
26775	822.5	1RB_Low	Right	Touch	/	21.18	22.50	0.238	0.32	0.380	0.51	0.13
26775	822.5	1RB_Low	Right	Tilt	/	21.18	22.50	0.178	0.24	0.317	0.43	-0.11
26775	822.5	36RB_Mid	Left	Touch	/	21.24	22.50	0.195	0.26	0.268	0.36	0.00
26775	822.5	36RB_Mid	Left	Tilt	/	21.24	22.50	0.184	0.25	0.278	0.37	0.05
26775	822.5	36RB_Mid	Right	Touch	/	21.24	22.50	0.257	0.34	0.410	0.55	-0.03
26775	822.5	36RB_Mid	Right	Tilt	/	21.24	22.50	0.174	0.23	0.312	0.42	0.09

Note1: The LTE mode is QPSK_15MHz.

Note2: The data is used for Simultaneous transmission

14.4 SAR results for Standard procedure(ANT1)

Table 14.4-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
128	824.2	Right	Touch	Fig.37	31.76	32.50	0.496	0.59	0.799	0.95	-0.06

Table 14.4-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Rear	Fig.38	28.65	29.50	0.109	0.13	0.142	0.17	-0.09

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.4-3: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (3)	Rear	Fig.39	28.65	29.50	0.097	0.12	0.133	0.16	0.13

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.4-4: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No./ Note	Conducte d Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
512	1850.2	Right	Tilt	Fig.40	26.71	27.50	0.262	0.31	0.606	0.73	-0.12

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.4-5: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	GPRS (3)	Top	Fig.41	25.14	26.00	0.210	0.26	0.424	0.52	0

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.4-6: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	GPRS (3)	Rear	Fig.42	25.98	26.50	0.254	0.29	0.442	0.50	-0.12

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.4-7: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4132	826.4	Right	Touch	Fig.43	23.10	23.50	0.528	0.58	0.836	0.92	-0.05

Table 14.4-8: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Rear	Fig.44	23.49	25.00	0.147	0.21	0.232	0.33	0.01

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.4-9: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Rear	Fig.45	23.41	25.00	0.111	0.16	0.156	0.22	-0.12

Note: The distance between the EUT and the phantom bottom is 15mm.

Table 14.4-10: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Right	Tilt	Fig.46	15.42	17.00	0.356	0.51	0.816	1.17	0.08

Table 14.4-11: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
Ch.	MHz					(W/kg)	(W/kg)	(W/kg)	(W/kg)	
1513	1752.6	Top	Fig.47	18.89	20.50	0.227	0.33	0.455	0.66	-0.13

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.4-12: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
Ch.	MHz					(W/kg)	(W/kg)	(W/kg)	(W/kg)	
1513	1752.6	Rear	Fig.48	20.44	22.00	0.093	0.13	0.163	0.23	-0.03

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.4-13: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9262	1852.4	Right	Tilt	Fig.49	15.65	17.00	0.370	0.50	0.875	1.19	-0.11

Table 14.4-14: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
Ch.	MHz					(W/kg)	(W/kg)	(W/kg)	(W/kg)	
9538	1907.6	Top	Fig.50	17.75	19.50	0.180	0.27	0.374	0.56	-0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.4-15: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
Ch.	MHz					(W/kg)	(W/kg)	(W/kg)	(W/kg)	
9400	1880	Rear	Fig.51	20.22	21.50	0.114	0.15	0.202	0.27	0.05

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.4-16: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
19100	1900	1RB_Mid	Left	Tilt	Fig.52	15.45	17.00	0.238	0.34	0.492	0.70	-0.05

Note1: The LTE mode is QPSK_20MHz.

Table 14.4-17: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
19100	1900	1RB_Mid	Top	Fig.53	18.57	20.00	0.277	0.39	0.582	0.81	-0.01

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.4-18: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
19100	1900	1RB_Low	Rear	Fig.54	21.13	22.00	0.140	0.17	0.249	0.30	-0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.4-19: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Mid	Right	Touch	Fig.55	21.81	23.00	0.374	0.49	0.589	0.77	0.13

Note1: The LTE mode is QPSK_10MHz.

Table 14.4-20: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Mid	Rear	Fig.56	23.75	25.00	0.127	0.17	0.191	0.25	-0.13

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.4-21: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Mid	Rear	Fig.57	23.75	25.00	0.097	0.13	0.125	0.17	0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.4-22: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	50RB_Low	Right	Tilt	Fig.58	15.81	17.00	0.267	0.35	0.665	0.87	0.05

Note1: The LTE mode is QPSK_20MHz.

Table 14.4-23: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	50RB_Mid	Top	Fig.59	19.75	21.00	0.195	0.26	0.467	0.62	-0.11

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.4-24: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_Mid	Rear	Fig.60	19.48	21.00	0.069	0.10	0.138	0.20	0.07

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.4-25: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB_Mid	Right	Tilt	Fig.61	23.23	24.50	0.288	0.39	0.587	0.79	0.08

Note1: The LTE mode is QPSK_10MHz.

Table 14.4-26: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Mid	Rear	Fig.62	23.23	24.50	0.090	0.12	0.117	0.16	0.12

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.4-27: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23060	704	1RB_Mid	Rear	Fig.63	23.23	24.50	0.061	0.08	0.080	0.11	0.08

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.4-28: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26865	831.5	1RB_Low	Right	Touch	Fig.64	23.31	24.00	0.529	0.62	0.831	0.97	0.03

Note1: The LTE mode is QPSK_15MHz.

Table 14.4-29: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Rear	Fig.65	23.56	25.00	0.149	0.21	0.214	0.30	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.4-30: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26775	822.5	1RB_Low	Rear	Fig.66	23.56	25.00	0.082	0.11	0.108	0.15	0.07

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_15MHz.

Table 14.4-31: SAR Values (LTE Band41- Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB_Low	Right	Tilt	Fig.67	16.28	17.50	0.136	0.18	0.338	0.45	0.05

Note1: The LTE mode is QPSK_20MHz.

Table 14.4-32: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	50RB_Low	Top	Fig.68	22.39	23.00	0.168	0.19	0.400	0.46	-0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.4-33: SAR Values (LTE Band41 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
40620	2593	1RB_Low	Rear	Fig.69	23.27	24.50	0.081	0.11	0.170	0.23	0.12

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note4: The LTE mode is QPSK_20MHz.

Table 14.4-34: SAR Values (LTE Band66 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132072	1720	50RB_Low	Right	Tilt	Fig.70	12.85	14.00	0.147	0.19	0.339	0.44	0.08

Note1: The LTE mode is QPSK_20MHz.

Table 14.4-35: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Top	Fig.71	20.31	21.00	0.167	0.20	0.347	0.41	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Table 14.4-36: SAR Values (LTE Band66 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Rear	Fig.72	23.18	24.50	0.128	0.17	0.224	0.30	0.17

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

14.5 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

Head Evaluation-Standalone

Table 14.5-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	/	16.13	17	0.322	0.39	0.646	0.79	-0.09
2462	11	Left	Tilt	/	16.13	17	0.275	0.34	0.609	0.74	-0.05
2462	11	Right	Touch	/	16.13	17	0.201	0.25	0.358	0.44	0.02
2462	11	Right	Tilt	/	16.13	17	0.196	0.24	0.421	0.51	0.09

As shown above table, the initial test position for head is “Left Touch”. So the head SAR of WLAN is presented as below:

Table 14.5-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	Fig.73	16.13	17	0.303	0.37	0.649	0.79	-0.09
2462	11	Left	Tilt		16.13	17	0.270	0.33	0.603	0.74	-0.05

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.5-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C			
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2462	11	Left	Touch	98.1%	100%	0.79	0.81

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

Head Evaluation- Simultaneous transmission

Table 14.5-4: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	/	8.49	9.00	0.049	0.06	0.097	0.11	0.02
2462	11	Left	Tilt	/	8.49	9.00	0.042	0.05	0.091	0.10	0.05
2462	11	Right	Touch	/	8.49	9.00	0.031	0.03	0.054	0.06	0.12
2462	11	Right	Tilt	/	8.49	9.00	0.030	0.03	0.063	0.07	0.06

As shown above table, the initial test position for head is “Left Touch”. So the head SAR of WLAN is presented as below:

Table 14.5-5: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	/	8.49	9.00	0.048	0.05	0.102	0.11	0.02

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.5-6: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C			
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2462	11	Left	Touch	98.1%	100%	0.11	0.12

SAR is not required for OFDM because the 802.11b adjusted SAR $\leq$ 1.2 W/kg.

Body Evaluation- Standalone

Table 14.5-7: SAR Values (WLAN - Body)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2437	6	Front	/	18.74	20.00	0.070	0.09	0.122	0.16	0.03
2437	6	Rear	/	18.74	20.00	0.075	0.10	0.130	0.17	-0.02

As shown above table, the initial test position for body is “Rear”. So the body SAR of WLAN is presented as below:

Table 14.5-8: SAR Values (WLAN - Body)– 802.11b (Full SAR)

Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2437	6	Rear	Fig.74	18.74	20.00	0.074	0.10	0.126	0.17	-0.02

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is $\leq$ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is $\leq$ 1.2 W/kg or all required channels are tested.

Note3: The distance between the EUT and the phantom bottom is 15mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.5-9: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C		
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2437	6	Rear	98.11%	100%	0.17	0.17

SAR is not required for OFDM because the 802.11b adjusted SAR $\leq$ 1.2 W/kg.

Body Evaluation- Simultaneous transmission

Table 14.5-10: SAR Values (WLAN - Body)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2437	6	Front	/	17.35	18.50	0.072	0.09	0.134	0.17	0.13
2437	6	Rear	/	17.35	18.50	0.101	0.13	0.184	0.24	0.08
2437	6	Right	/	17.35	18.50	0.050	0.07	0.094	0.12	0.06
2437	6	Top	/	17.35	18.50	0.104	0.14	0.200	0.26	0.10

As shown above table, the initial test position for body is “Rear”. So the body SAR of WLAN is presented as below:

Table 14.5-11: SAR Values (WLAN - Body)– 802.11b (Full SAR)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2437	6	Top	/	17.35	18.50	0.104	0.14	0.197	0.26	0.1

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

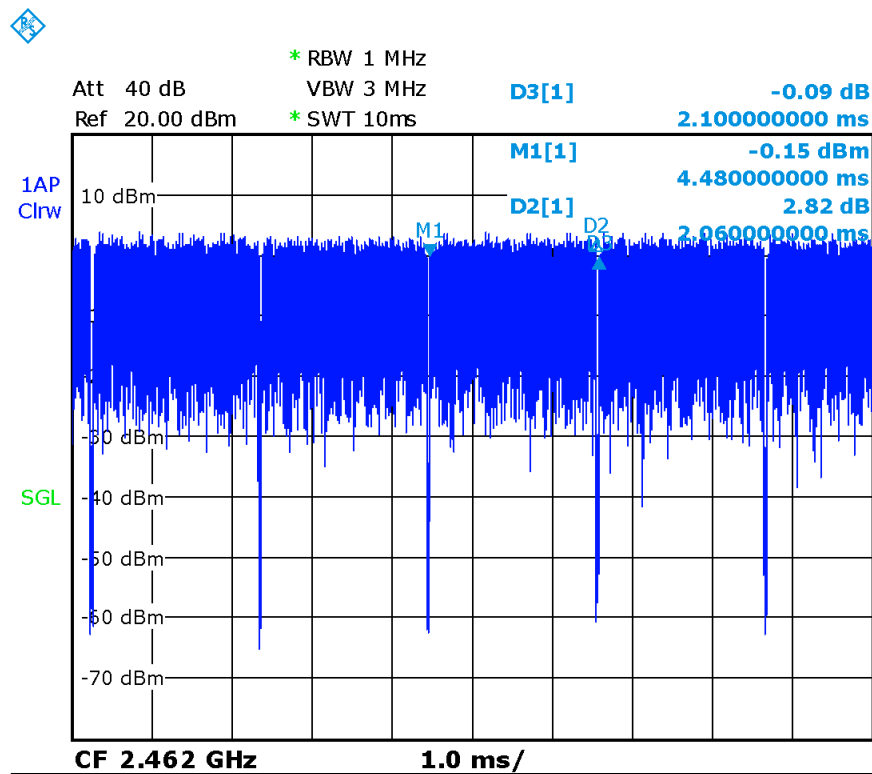
Note3: The distance between the EUT and the phantom bottom is 10mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

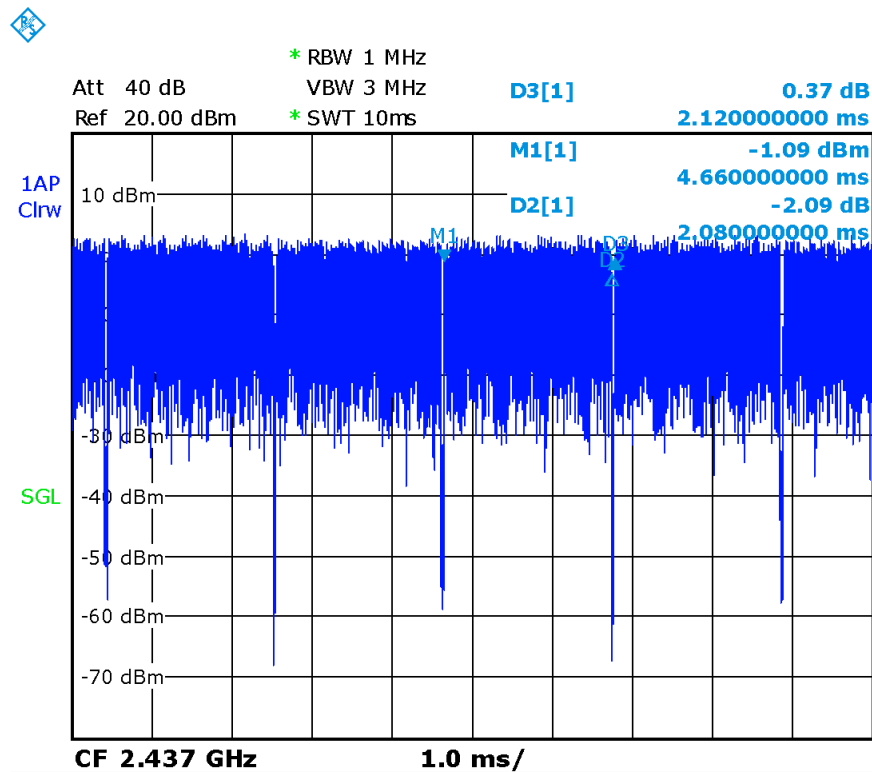
Table 14.5-12: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C		
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2437	6	Top	98.11%	100%	0.26	0.26

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Picture 14.1 Duty factor plot for head



Picture 14.2 Duty factor plot for body

14.6 WLAN Evaluation For 5G

Table 14.6-1: OFDM mode specified maximum output power of WLAN antenna

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	X		X	X	X	X	X	
U-NII-2A	X		X	X	X	X	X	
U-NII-2C	X		X	X	X	X	X	
U-NII-3	X		X	X	X	X	X	
§ 15.247 (5.8 GHz)								

X: maximum(conducted) output power(mW), including tolerance, specified for production units

Table 14.6-2: Maximum output power specified of WLAN antenna for Head standalone

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	28		28	28	28	28	28	
U-NII-2A	28		28	28	28	28	28	
U-NII-2C	28		28	28	28	28	28	
U-NII-3	28		28	28	28	28	28	
§ 15.247 (5.8 GHz)								

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

Table 14.6-3: Maximum output power specified of WLAN antenna for Head Simultaneous transmission

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	8		8	8	8	8	8	
U-NII-2A	8		8	8	8	8	8	
U-NII-2C	8		8	8	8	8	8	
U-NII-3	8		8	8	8	8	8	
§ 15.247 (5.8 GHz)								

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

Table 14.6-4: Maximum output power specified of WLAN antenna for Body standalone

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	79		63	63	63	63	50	
U-NII-2A	79		63	63	63	63	50	
U-NII-2C	79		63	63	63	63	50	
U-NII-3	45		45	45	45	45	45	
§ 15.247 (5.8 GHz)								
- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes. - The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.								

Table 14.6-5: Maximum output power specified of WLAN antenna for Body Simultaneous transmission

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	18		18	18	18	18	18	
U-NII-2A	18		18	18	18	18	18	
U-NII-2C	18		18	18	18	18	18	
U-NII-3	18		18	18	18	18	18	
§ 15.247 (5.8 GHz)								
- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes. - The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.								

Table 14.6-6: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations - Head standalone

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 Lower power	36/40/44/48 Lower power	38/46 Lower power	36/40/44/48 Lower power	38/46 Lower power	42 20
U-NII-2A	52/56/60/64 Lower power	52/56/60/64 Lower power	54/62 Lower power	52/56/60/64 Lower power	54/62 Lower power	58 19
U-NII-2C	100/104/108/112 116/120/124/128 132/136/140/144 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	106/122/138 20/18/24
U-NII-3	149/153/157/161/ 165	149/153/157/161 /165	151/159 Lower power	149/153/157/161 /165	151/159 Lower power	155 20

	Lower power	Lower power		Lower power		
- The bold numbers is the maximum output measured power (mW). - Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.						

Table 14.6-7: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations - Head Simultaneous transmission

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 Lower power	36/40/44/48 Lower power	38/46 Lower power	36/40/44/48 Lower power	38/46 Lower power	42 6
U-NII-2A	52/56/60/64 Lower power	52/56/60/64 Lower power	54/62 Lower power	52/56/60/64 Lower power	54/62 Lower power	58 6
U-NII-2C	100/104/108/112 116/120/124/128 132/136/140/144 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	106/122/138 5/5/7
U-NII-3	149/153/157/161/ 165 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	155 6
- The bold numbers is the maximum output measured power (mW). - Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.						

Table 14.6-8: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Body standalone

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 49/59/55/51	36/40/44/48 Lower power	38/46 Lower power	36/40/44/48 Lower power	38/46 Lower power	42 Lower power
U-NII-2A	52/56/60/64 54/55/60/44	52/56/60/64 Lower power	54/62 Lower power	52/56/60/64 Lower power	54/62 Lower power	58 Lower power
U-NII-2C	100/104/108/112 66/59/52/51 116/120/124/128 50/52/55/65 132/136/140/144 70/72/14/60	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	100/104/108 /112 116/132/136/ 140 Lower power	102/110/134 Lower power	106 Lower power
U-NII-3	149/153/157/161/165	149/153/157/16	151/159	149/153/157	151/159	155

	Lower power	1/165 Lower power	Lower power	/161/165 Lower power	Lower power	31
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- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are **highlighted in yellow**.

Table 14.6-9: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations - Body Simultaneous transmission

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 Lower power	36/40/44/48 Lower power	38/46 Lower power	36/40/44/48 Lower power	38/46 Lower power	42 13
U-NII-2A	52/56/60/64 Lower power	52/56/60/64 Lower power	54/62 Lower power	52/56/60/64 Lower power	54/62 Lower power	58 12
U-NII-2C	100/104/108/112 116/120/124/128 132/136/140/144 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	106/122/ 138 12/11/ 15
U-NII-3	149/153/157/161/ 165 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	155 13

- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are **highlighted in yellow**.

Table 14.6-10: Reported SAR of initial test configuration for Head standalone

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48	36/40/44/48	38/46	36/40/44/48	38/46	42 1.13
U-NII-2A	52/56/60/64	52/56/60/64	54/62	52/56/60/64	54/62	58 0.99
U-NII-2C	100/104/108/112/ 116/120/124/128/ 132/136/140/144	100/104/108/112 116/132/136/140	102/110/118/ 126/134	100/104/108/112 116/132/136/140	102/110 /134	106/122/ 138 0.59
U-NII-3	149/153/157/161 /165	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155 0.86

Highest measured output power channel tested initially are in **yellow highlight**.

The tune up of UNII-1 is less than UNII-2A. SAR is measured for UNII-2A band first. Adjusted SAR of UNII-2A band is ≤ 1.2 W/kg. SAR is not required for UNII-1 band.

Table 14.6-11: Reported SAR of initial test configuration for Head Simultaneous transmission

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48	36/40/44/48	38/46	36/40/44/48	38/46	42 0.28
U-NII-2A	52/56/60/64	52/56/60/64	54/62	52/56/60/64	54/62	58 0.36
U-NII-2C	100/104/108/112/ 116/120/124/128/ 132/136/140/144	100/104/108/112 116/132/136/140	102/110/118/ 126/134	100/104/108/112 116/132/136/140	102/110 /134	106/122/ 138 0.21
U-NII-3	149/153/157/161 /165	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155 0.27

Highest measured output power channel tested initially are in **yellow highlight**.

The tune up of UNII-1 is less than UNII-2A. SAR is measured for UNII-2A band first. Adjusted SAR of UNII-2A band is ≤ 1.2 W/kg. SAR is not required for UNII-1 band.

Table 14.6-12: Reported SAR of initial test configuration for Body standalone

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/ 40 /44/48 0.35	36/40/44/48	38/46	36/40/44/48	38/46	42
U-NII-2A	52/56/ 60 /64 0.34	52/56/60/64	54/62	52/56/60/64	54/62	58
U-NII-2C	100/104/108/112/ 116/120/124/128/ 132/ 136 /140/144 0.32	100/104/108/112 116/132/136/140	102/110/118/ 126/134	100/104/108/112 116/132/136/140	102/110 /134	106/122/138
U-NII-3	149/153/157/161 /165	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155 0.26

Highest measured output power channel tested initially are in **yellow highlight**.

The tune up of UNII-1 is less than UNII-2A. SAR is measured for UNII-2A band first. Adjusted SAR of UNII-2A band is ≤ 1.2 W/kg. SAR is not required for UNII-1 band.

Table 14.6-13: Reported SAR of initial test configuration for Body Simultaneous transmission

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48	36/40/44/48	38/46	36/40/44/48	38/46	42 0.39
U-NII-2A	52/56/60/64	52/56/60/64	54/62	52/56/60/64	54/62	58 0.11

U-NII-2C	100/104/108/112/ 116/120/124/128/ 132/136/140/144	100/104/108/112 116/132/136/140	102/110/118/ 126/134	100/104/108/112 116/132/136/140	102/110 /134	106/122/ 138 0.13
U-NII-3	149/153/157/161 /165	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155 0.26

Highest measured output power channel tested initially are in **yellow highlight**.

The tune up of UNII-1 is less than UNII-2A. SAR is measured for UNII-2A band first. Adjusted SAR of UNII-2A band is ≤ 1.2 W/kg. SAR is not required for UNII-1 band.

Table 14.6-14: SAR Values (WLAN – Head standalone)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
5210	42	Left	Touch	Fig.75	13.06	14.50	0.194	0.27	0.719	1.00	-0.13
5210	42	Left	Tilt		13.06	14.50	0.188	0.26	0.687	0.96	0.12
5210	42	Right	Touch		13.06	14.50	0.070	0.10	0.228	0.32	0.00
5210	42	Right	Tilt		13.06	14.50	0.066	0.09	0.219	0.31	-0.10
5290	58	Left	Touch	/	12.85	14.50	0.171	0.25	0.680	0.99	0.04
5290	58	Left	Tilt	/	12.85	14.50	0.153	0.22	0.574	0.84	0.02
5290	58	Right	Touch	/	12.85	14.50	0.050	0.07	0.165	0.24	-0.13
5290	58	Right	Tilt	/	12.85	14.50	0.060	0.09	0.192	0.28	-0.02
5690	138	Left	Touch	/	13.79	14.50	0.133	0.16	0.504	0.59	-0.11
5690	138	Left	Tilt	/	13.79	14.50	0.143	0.17	0.498	0.59	-0.13
5690	138	Right	Touch	/	13.79	14.50	0.061	0.07	0.199	0.23	0.02
5690	138	Right	Tilt	/	13.79	14.50	0.070	0.08	0.228	0.27	-0.08
5775	155	Left	Touch		13.01	14.50	0.152	0.21	0.584	0.82	-0.05
5775	155	Left	Tilt	/	13.01	14.50	0.168	0.24	0.611	0.86	-0.01
5775	155	Right	Touch	/	13.01	14.50	0.066	0.09	0.216	0.30	-0.12
5775	155	Right	Tilt	/	13.01	14.50	0.077	0.11	0.253	0.36	0.12

Table 14.6-15: SAR Values (WLAN – Head Simultaneous transmission)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
5210	42	Left	Touch	/	7.56	9.00	0.050	0.07	0.198	0.28	-0.11
5210	42	Left	Tilt	/	7.56	9.00	0.042	0.06	0.193	0.27	0.03
5210	42	Right	Touch	/	7.56	9.00	0.015	0.02	0.049	0.07	-0.02
5210	42	Right	Tilt	/	7.56	9.00	0.017	0.02	0.055	0.08	0.12
5290	58	Left	Touch	/	7.41	9.00	0.048	0.07	0.198	0.29	-0.06
5290	58	Left	Tilt	/	7.41	9.00	0.050	0.07	0.233	0.34	0.03
5290	58	Right	Touch	/	7.41	9.00	0.014	0.02	0.046	0.07	0.04
5290	58	Right	Tilt	/	7.41	9.00	0.016	0.02	0.052	0.07	-0.05
5690	138	Left	Touch	/	8.33	9.00	0.044	0.05	0.173	0.20	0.01

5690	138	Left	Tilt	/	8.33	9.00	0.049	0.06	0.182	0.21	-0.11
5690	138	Right	Touch	/	8.33	9.00	0.019	0.02	0.071	0.08	0.07
5690	138	Right	Tilt	/	8.33	9.00	0.025	0.03	0.090	0.11	0.02
5775	155	Left	Touch		7.69	9.00	0.046	0.06	0.181	0.24	-0.03
5775	155	Left	Tilt	/	7.69	9.00	0.052	0.07	0.202	0.27	0.02
5775	155	Right	Touch	/	7.69	9.00	0.019	0.03	0.065	0.09	0.06
5775	155	Right	Tilt	/	7.69	9.00	0.022	0.03	0.079	0.11	-0.02

Table 14.6-16: SAR Values (WLAN - Body standalone)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
5200	40	Front	/	17.70	19.00	0.101	0.14	0.250	0.34	-0.12
5200	40	Rear	Fig.76	17.70	19.00	0.107	0.14	0.256	0.35	0.08
5300	60	Front	/	17.78	19.00	0.069	0.09	0.172	0.23	0.07
5300	60	Rear	/	17.78	19.00	0.102	0.14	0.253	0.34	0.15
5680	136	Front	/	18.58	19.00	0.077	0.08	0.201	0.22	0.06
5680	136	Rear	/	18.58	19.00	0.114	0.13	0.295	0.32	0.00
5775	155	Front	/	14.90	16.50	0.037	0.05	0.088	0.13	-0.03
5775	155	Rear	/	14.90	16.50	0.071	0.10	0.180	0.26	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.6-17: SAR Values (WLAN – Body Simultaneous transmission)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
5210	42	Front	/	11.01	12.50	0.048	0.07	0.155	0.22	0.10
5210	42	Rear	/	11.01	12.50	0.051	0.07	0.157	0.22	0.03
5210	42	Right	/	11.01	12.50	0.076	0.11	0.246	0.35	0.08
5210	42	Top	/	11.01	12.50	0.062	0.09	0.187	0.26	0.12
5290	58	Front	/	10.90	12.50	0.029	0.04	0.079	0.11	-0.10
5290	58	Rear	/	10.90	12.50	0.026	0.04	0.071	0.10	-0.06
5690	138	Front	/	11.68	12.50	0.016	0.02	0.093	0.11	0.00
5690	138	Rear	/	11.68	12.50	0.039	0.05	0.111	0.13	0.07
5775	155	Front	/	11.00	12.50	0.031	0.04	0.087	0.12	-0.02
5775	155	Rear	/	11.00	12.50	0.050	0.07	0.151	0.21	-0.06
5775	155	Right	/	11.00	12.50	0.066	0.09	0.187	0.26	-0.01
5775	155	Top	/	11.00	12.50	0.071	0.10	0.186	0.26	-0.13

Note1: The distance between the EUT and the phantom bottom is 10mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.6-18: SAR Values (WLAN - Head standalone) - Scaled Reported SAR

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5210	42	Left	Touch	87.5%	100%	1.00	1.13

Table 14.6-19: SAR Values (WLAN - Head Simultaneous transmission) - Scaled Reported SAR

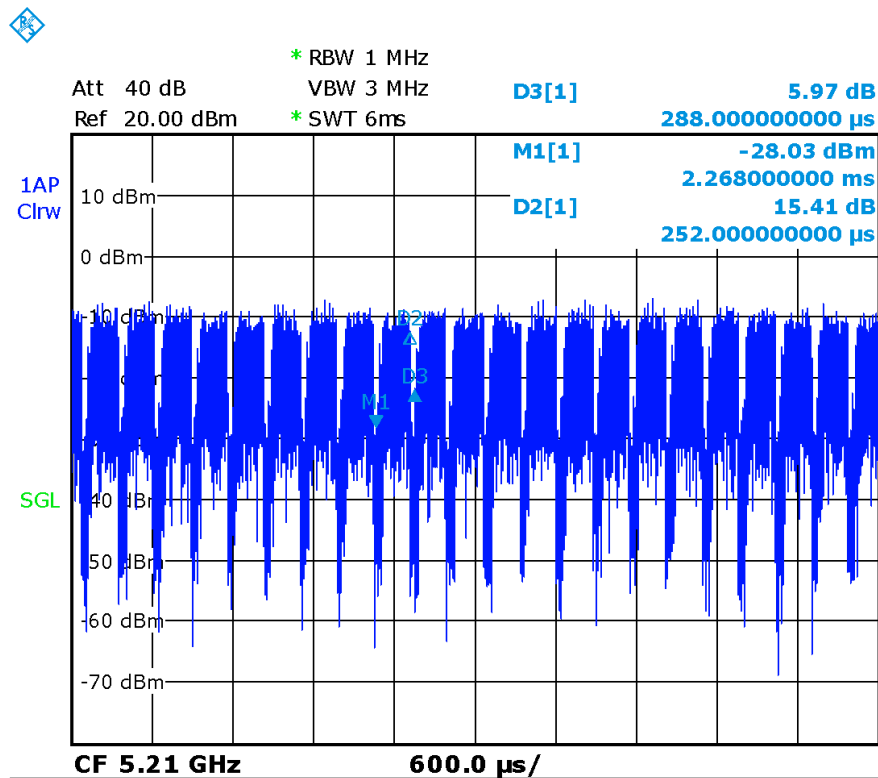
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5290	58	Left	Tilt	92.3%	100%	0.34	0.36

Table 14.6-20: SAR Values (WLAN – Body standalone) – Scaled Reported SAR

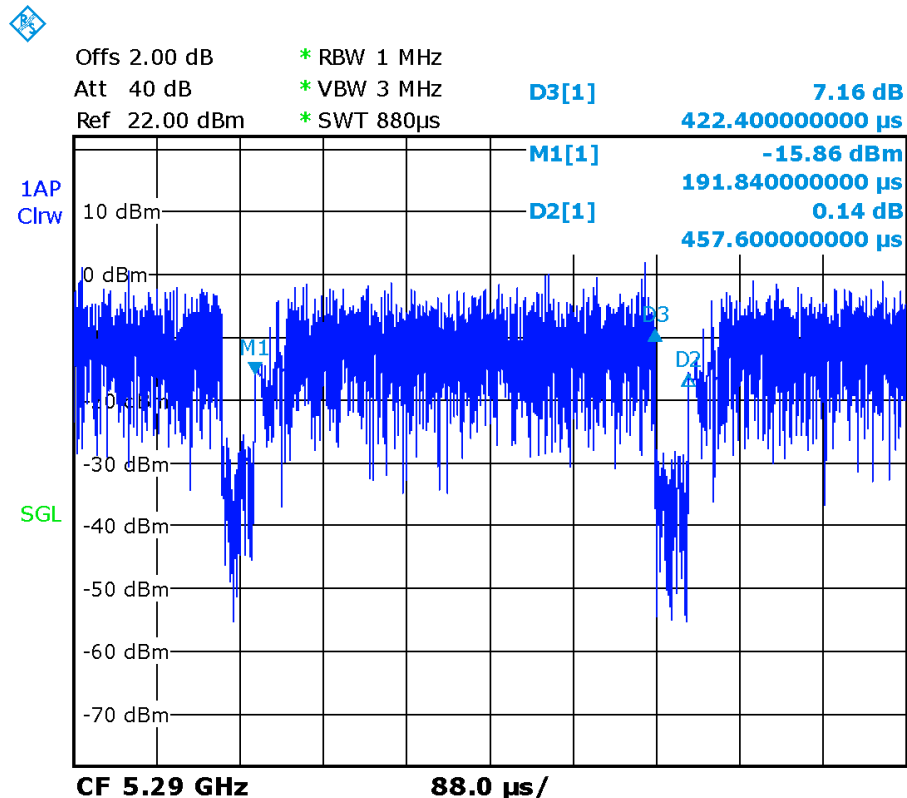
Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5200	40	Rear	15	97.66%	100%	0.35	0.35

Table 14.6-21: SAR Values (WLAN – Body Simultaneous transmission) – Scaled Reported SAR

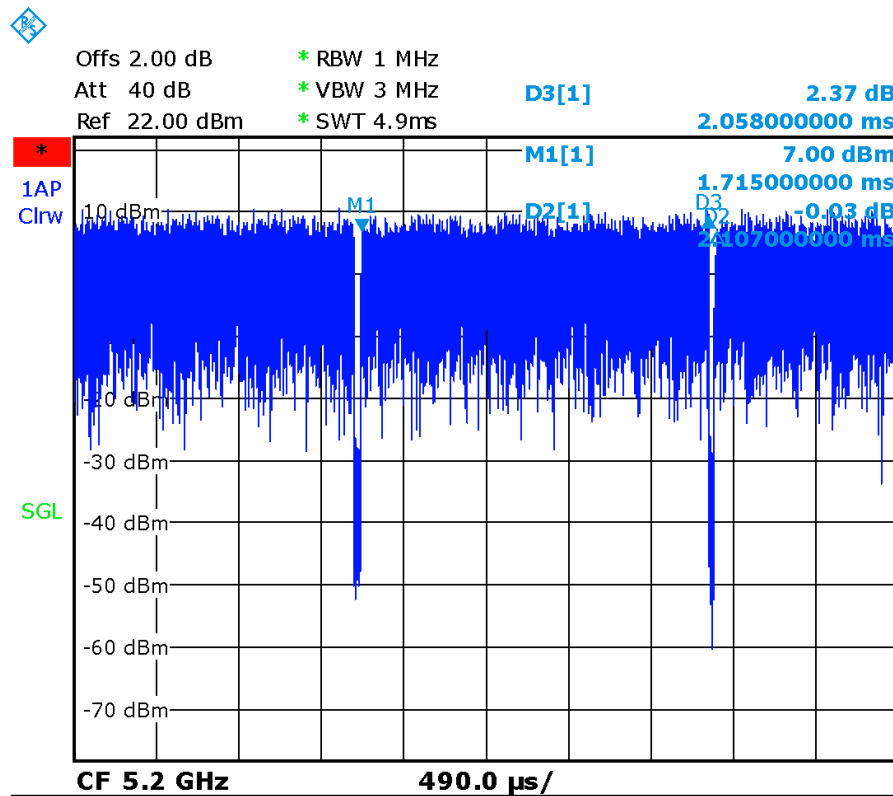
Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5210	42	Right	10	87.5%	100%	0.35	0.39



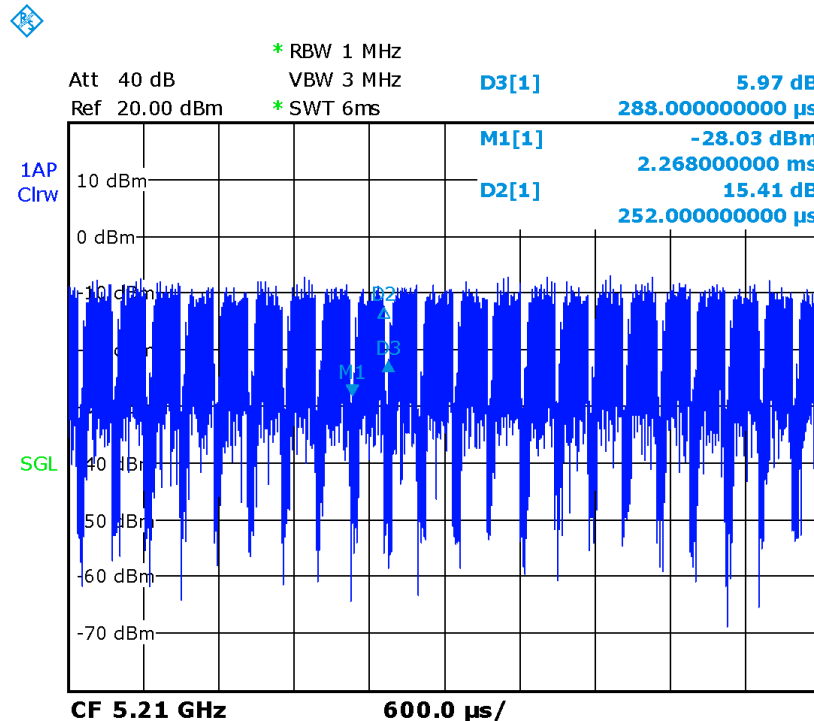
Picture 14.3 The plot of duty factor for Head standalone



Picture 14.4 The plot of duty factor for Head Simultaneous transmission



Picture 14.3 The plot of duty factor for Body standalone



Picture 14.4 The plot of duty factor for Body Simultaneous transmission

14.7 SAR results for Fast BT

Table 15.7-1: SAR Values (Bluetooth - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
39	2441	Left	Touch	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Left	Tilt	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Right	Touch	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Right	Tilt	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/

Table 15.7-2: SAR Values (Bluetooth - Body)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch	MHz									
39	2441	Front	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Rear	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Left	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Top	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/

Note1: The distance between the EUT and the phantom bottom is 10mm

Table 15.7-3: SAR Values (Bluetooth - Body)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch	MHz									
39	2441	Front	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/
39	2441	Rear	/	12.60	14	< 0.01	< 0.01	< 0.01	< 0.01	/

Note1: The distance between the EUT and the phantom bottom is 15mm

14.8 SAR results for SUB6G

Table 14.8-1: SAR Values (NR5G n5-Head ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
167300	836.5	Left	Cheek	Fig.77	24.37	25.2	0.082	0.10	0.108	0.13	-0.06
167300	836.5	Left	Tilt	/	24.37	25.2	0.029	0.04	0.055	0.07	0.03
167300	836.5	Right	Cheek	/	24.37	25.2	0.063	0.08	0.088	0.11	-0.02
167300	836.5	Right	Tilt	/	24.37	25.2	0.024	0.03	0.038	0.05	-0.06
167300	836.5	Left	Cheek	CP-OFDM	23.63	23.7	0.074	0.08	0.092	0.09	0.03
167300	836.5	Left	Cheek	S	24.37	25.2	0.076	0.09	0.097	0.12	0.12

Table 14.8-2: SAR Values (NR5G n5-Body ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
167300	836.5	Front	/	24.37	25.2	0.056	0.07	0.078	0.09	-0.04
167300	836.5	Rear	Fig.78	24.37	25.2	0.066	0.08	0.108	0.13	0.01
167300	836.5	Left	/	24.37	25.2	0.051	0.06	0.078	0.09	-0.11
167300	836.5	Right	/	24.37	25.2	0.037	0.04	0.058	0.07	0.00
167300	836.5	Bottom	/	24.37	25.2	0.032	0.04	0.064	0.08	-0.06
167300	836.5	Rear	CP-OFDM	23.63	23.7	0.07	0.07	0.091	0.09	0.06
167300	836.5	Rear	S	24.37	25.2	0.072	0.09	0.093	0.11	0.09

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-3: SAR Values (NR5G n5-Body ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
167300	836.5	Front	/	24.37	25.2	0.034	0.04	0.047	0.06	0.02
167300	836.5	Rear	Fig.79	24.37	25.2	0.045	0.05	0.058	0.07	0.07
167300	836.5	Rear	CP-OFDM	23.63	23.7	0.042	0.04	0.051	0.05	0.09
167300	836.5	Rear	S	24.37	25.2	0.041	0.05	0.05	0.06	0.16

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-4: SAR Values (NR5G n5-Head ANT1)

Frequency		Ambient Temperature: 22.2 °C Liquid Temperature: 22 °C									
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
167300	836.5	Left	Cheek	/	18.85	20.20	0.120	0.16	0.218	0.30	0.02
167300	836.5	Left	Tilt	/	18.85	20.20	0.102	0.14	0.214	0.29	-0.04
167300	836.5	Right	Cheek	/	18.85	20.20	0.121	0.17	0.237	0.32	0.05
167300	836.5	Right	Tilt	Fig.80	18.85	20.20	0.136	0.19	0.259	0.35	-0.01
167300	836.5	Right	Tilt	DFT-s-OFDM	18.72	20.20	0.114	0.16	0.207	0.29	0.16
167300	836.5	Right	Tilt	S	18.85	20.20	0.127	0.17	0.236	0.32	0.04

Table 14.8-5: SAR Values (NR5G n5-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C Liquid Temperature: 22 °C								
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
167300	836.5	Front	/	24.20	25.20	0.125	0.16	0.174	0.22	0.07
167300	836.5	Rear	Fig.81	24.20	25.20	0.147	0.19	0.213	0.27	-0.01
167300	836.5	Left	/	24.20	25.20	0.081	0.10	0.121	0.15	-0.03
167300	836.5	Top	/	24.20	25.20	0.113	0.14	0.203	0.26	-0.04
167300	836.5	Rear	CP-OFDM	23.67	23.70	0.104	0.10	0.183	0.18	0.11
167300	836.5	Rear	S	24.20	25.20	0.132	0.17	0.201	0.25	0.16

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-6: SAR Values (NR5G n5-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C Liquid Temperature: 22 °C								
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
167300	836.5	Front	/	24.20	25.20	0.120	0.15	0.163	0.21	-0.05
167300	836.5	Rear	Fig.82	24.20	25.20	0.123	0.15	0.165	0.21	0.13
167300	836.5	Rear	CP-OFDM	23.67	23.70	0.092	0.09	0.127	0.13	0.16
167300	836.5	Rear	S	24.20	25.20	0.116	0.15	0.152	0.19	0.08

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-7: SAR Values (LTE Band7 – Head ANT4)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21100	2535	1RB_High	Left	Touch	/	21.99	23	0.148	0.19	0.306	0.39	-0.07
21100	2535	1RB_High	Left	Tilt	/	21.99	23	0.039	0.05	0.077	0.10	-0.04
21100	2535	1RB_High	Right	Touch	Fig.83	21.99	23	0.233	0.29	0.530	0.67	0.08
21100	2535	1RB_High	Right	Tilt	/	21.99	23	0.086	0.11	0.175	0.22	0.05
21100	2535	50RB_Low	Left	Touch	/	21.09	22	0.130	0.16	0.264	0.33	0.06
21100	2535	50RB_Low	Left	Tilt	/	21.09	22	0.041	0.05	0.079	0.10	0.1
21100	2535	50RB_Low	Right	Touch	/	21.09	22	0.206	0.25	0.466	0.57	0.01
21100	2535	50RB_Low	Right	Tilt		21.09	22	0.086	0.11	0.175	0.22	-0.07
21100	2535	1RB_High	Right	Touch	S2	21.99	23	0.207	0.26	0.506	0.64	0.13

Note1: The LTE mode is QPSK_20MHz.

Note2: The data is used for ENDC-n5

Table 14.8-8: SAR Values (LTE Band7 – Body ANT4)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Mode	Test Position	Figure No./ Note	Conduc ted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21100	2535	1RB_High	Front	/	21.99	23	0.072	0.09	0.139	0.18	-0.04
21100	2535	1RB_High	Rear	/	21.99	23	0.287	0.36	0.605	0.76	0.13
21100	2535	1RB_High	Left	/	21.99	23	0.250	0.32	0.536	0.68	0.02
21100	2535	1RB_High	Top	/	21.99	23	0.039	0.05	0.070	0.09	0.04
21100	2535	50RB_Low	Front	/	21.09	22	0.071	0.09	0.139	0.17	-0.06
21100	2535	50RB_Low	Rear	Fig.84	21.09	22	0.289	0.36	0.632	0.78	0.04
21100	2535	50RB_Low	Left	/	21.09	22	0.254	0.31	0.571	0.70	-0.03
21100	2535	50RB_Low	Top	/	21.09	22	0.042	0.05	0.077	0.09	-0.04
21100	2535	50RB_Low	Rear	S2	21.09	22	0.261	0.32	0.602	0.74	0.15

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Note3: The data is used for ENDC-n5

Table 14.8-9: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21100	2535	1RB_High	Front	/	21.99	23	0.074	0.09	0.090	0.11	-0.11
21100	2535	1RB_High	Rear	Fig.85	21.99	23	0.182	0.23	0.372	0.47	0.1
21100	2535	50RB_Low	Front	/	21.09	22	0.046	0.06	0.086	0.11	-0.06
21100	2535	50RB_Low	Rear	/	21.09	22	0.175	0.22	0.362	0.45	-0.09
21100	2535	1RB_High	Rear	S2	21.99	23	0.161	0.20	0.344	0.43	0.12

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Note3: The data is used for ENDC-n5

Table 14.8-10: SAR Values (NR5G n7-Head ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
507000	2535	Left	Cheek	/	23.12	24.20	0.098	0.13	0.176	0.23	-0.12
507000	2535	Left	Tilt	/	23.12	24.20	0.080	0.10	0.145	0.19	-0.02
507000	2535	Right	Cheek	Fig.86	23.12	24.20	0.151	0.19	0.281	0.36	0.11
507000	2535	Right	Tilt	/	23.12	24.20	0.085	0.11	0.168	0.22	0.08
507000	2535	Right	Cheek	CP-OFDM	21.59	22.70	0.118	0.15	0.231	0.30	0.17
507000	2535	Right	Cheek	S2	23.12	24.20	0.141	0.18	0.264	0.34	0.03

Table 14.8-11: SAR Values (NR5G n7-Body ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
507000	2535	Front	/	21.18	22.20	0.107	0.14	0.200	0.25	0.04
507000	2535	Rear	Fig.87	21.18	22.20	0.214	0.27	0.414	0.52	-0.10
507000	2535	Left	/	21.18	22.20	0.017	0.02	0.033	0.04	0.10
507000	2535	Right	/	21.18	22.20	0.068	0.09	0.126	0.16	0.09
507000	2535	Bottom	/	21.18	22.20	0.088	0.11	0.176	0.22	0.13
507000	2535	Rear	CP-OFDM	21.17	22.20	0.185	0.23	0.362	0.46	0.17
507000	2535	Rear	S2	21.18	22.20	0.203	0.26	0.401	0.51	0.02

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-12: SAR Values (NR5G n7-Body ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
507000	2535	Front	/	22.67	23.70	0.086	0.11	0.157	0.20	-0.09
507000	2535	Rear	Fig.88	22.67	23.70	0.164	0.21	0.301	0.38	0.03
507000	2535	Rear	CP-OFDM	21.60	22.20	0.121	0.14	0.243	0.28	0.12
507000	2535	Rear	S2	22.67	23.70	0.158	0.20	0.283	0.36	0.04

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-13: SAR Values (NR5G n7-Head ANT1)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
507000	2535	Left	Cheek	/	16.08	17.20	0.050	0.06	0.132	0.17	-0.08
507000	2535	Left	Tilt	/	16.08	17.20	0.070	0.09	0.190	0.25	0.05
507000	2535	Right	Cheek	/	16.08	17.20	0.115	0.15	0.286	0.37	-0.08
507000	2535	Right	Tilt	Fig.89	16.08	17.20	0.178	0.23	0.464	0.60	-0.03
507000	2535	Right	Tilt	CP-OFDM	16.03	17.20	0.162	0.21	0.442	0.58	0.17
507000	2535	Right	Tilt	S2	16.08	17.20	0.167	0.22	0.451	0.58	0.08

Table 14.8-14: SAR Values (NR5G n7-Head ANT1)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
507000	2535	Left	Cheek	/	13.44	14.70	0.027	0.04	0.072	0.10	0.02
507000	2535	Left	Tilt	/	13.44	14.70	0.044	0.06	0.121	0.16	0.08
507000	2535	Right	Cheek	/	13.44	14.70	0.068	0.09	0.167	0.22	-0.02
507000	2535	Right	Tilt	/	13.44	14.70	0.105	0.14	0.280	0.37	0.08
507000	2535	Right	Tilt	CP-OFDM	13.38	14.70	0.096	0.13	0.261	0.35	0.06
507000	2535	Right	Tilt	S2	13.44	14.70	0.099	0.13	0.274	0.37	0.13

Note: The data is used for Simultaneous transmission

Table 14.8-15: SAR Values (NR5G n7-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
507000	2535	Front	/	19.07	20.20	0.083	0.11	0.180	0.23	0.13
507000	2535	Rear	/	19.07	20.20	0.137	0.18	0.314	0.41	0.02
507000	2535	Left	/	19.07	20.20	0.080	0.10	0.160	0.21	0.08
507000	2535	TOp	Fig.90	19.07	20.20	0.212	0.28	0.498	0.65	0.09
507000	2535	TOp	CP-OFDM	19.01	20.20	0.193	0.25	0.468	0.62	0.02
507000	2535	TOp	S2	19.07	20.20	0.203	0.26	0.473	0.61	0.08

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-16: SAR Values (NR5G n7-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
507000	2535	Front	/	20.49	21.70	0.062	0.08	0.117	0.15	0.07
507000	2535	Rear	Fig.91	20.49	21.70	0.103	0.14	0.207	0.27	-0.06
507000	2535	Rear	CP-OFDM	20.46	21.70	0.091	0.12	0.183	0.24	0.14
507000	2535	Rear	S2	20.49	21.70	0.096	0.13	0.192	0.25	0.03

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-17: SAR Values (NR5G n7-Head ANT4)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
507000	2535	Left	Cheek	/	23.38	24.20	0.132	0.16	0.254	0.31	-0.11
507000	2535	Left	Tilt	/	23.38	24.20	0.055	0.07	0.100	0.12	0.07
507000	2535	Right	Cheek	Fig.92	23.38	24.20	0.183	0.22	0.379	0.46	-0.01
507000	2535	Right	Tilt	/	23.38	24.20	0.079	0.10	0.152	0.18	0.11
507000	2535	Right	Cheek	CP-OFDM	21.99	22.70	0.138	0.16	0.296	0.35	0.11
507000	2535	Right	Cheek	S2	23.38	24.20	0.162	0.20	0.362	0.44	0.07

Table 14.8-18: SAR Values (NR5G n7-Body ANT4)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
507000	2535	Front	/	23.38	24.20	0.035	0.04	0.067	0.08	-0.07
507000	2535	Rear	Fig.93	23.38	24.20	0.103	0.12	0.210	0.25	-0.01
507000	2535	Left	/	23.38	24.20	0.065	0.08	0.130	0.16	0.12
507000	2535	TOp	/	23.38	24.20	0.019	0.02	0.034	0.04	-0.05
507000	2535	Rear	CP-OFDM	21.99	22.70	0.071	0.08	0.137	0.16	0.05
507000	2535	Rear	S2	23.38	24.20	0.093	0.11	0.188	0.23	0.07

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-19: SAR Values (NR5G n7-Body ANT4)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
507000	2535	Front	/	23.38	24.20	0.017	0.02	0.030	0.04	-0.09
507000	2535	Rear	Fig.94	23.38	24.20	0.046	0.06	0.085	0.10	-0.07
507000	2535	Rear	CP-OFDM	23.38	24.20	0.031	0.04	0.062	0.07	0.02
507000	2535	Rear	S2	23.38	24.20	0.039	0.05	0.076	0.09	0.16

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-20: SAR Values (NR5G n41-Head ANT0)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
518598	2592.99	Left	Cheek	/	23.14	24.20	0.106	0.14	0.193	0.25	-0.07
518598	2592.99	Left	Tilt	/	23.14	24.20	0.066	0.08	0.122	0.16	0.06
518598	2592.99	Right	Cheek	Fig.95	23.14	24.20	0.169	0.22	0.316	0.40	0.12
518598	2592.99	Right	Tilt	/	23.14	24.20	0.068	0.09	0.134	0.17	-0.04
518598	2592.99	Right	Cheek	CP-OFDM	22.61	22.70	0.101	0.10	0.219	0.22	0.07
518598	2592.99	Right	Cheek	S2	23.14	24.20	0.147	0.19	0.293	0.37	0.08

Table 14.8-21: SAR Values (NR5G n41-Body ANT0)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
518598	2592.99	Front	/	21.64	22.70	0.124	0.16	0.232	0.30	0.12
518598	2592.99	Rear	Fig.96	21.64	22.70	0.311	0.40	0.606	0.77	0.05
518598	2592.99	Left	/	21.64	22.70	0.063	0.08	0.090	0.11	0.10
518598	2592.99	Right	/	21.64	22.70	0.156	0.20	0.288	0.37	0.09
518598	2592.99	Bottom	/	21.64	22.70	0.159	0.20	0.309	0.39	-0.12
518598	2592.99	Rear	CP-OFDM	21.63	22.70	0.193	0.25	0.352	0.45	0.16
518598	2592.99	Rear	S2	21.64	22.70	0.296	0.38	0.571	0.73	0.07

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-22: SAR Values (NR5G n41-Body ANT0)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
518598	2592.99	Front	/	23.14	24.20	0.107	0.14	0.190	0.24	-0.07
518598	2592.99	Rear	Fig.97	23.14	24.20	0.215	0.27	0.399	0.51	-0.04
518598	2592.99	Rear	CP-OFDM	22.61	22.70	0.106	0.11	0.243	0.25	0.16
518598	2592.99	Rear	S2	23.14	24.20	0.201	0.26	0.352	0.45	0.09

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-23: SAR Values (NR5G n41 - Head) - Scaled Reported SAR

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Right	Cheek	83.3%	83.3%	0.40	0.40

Table 14.8-24: SAR Values (NR5G n41- Body) – Scaled Reported SAR

Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Rear	10	83.3%	83.3%	0.77	0.77
518598	2592.99	Rear	15	83.3%	83.3%	0.51	0.51

Table 14.8-25: SAR Values (NR5G n41-Head ANT1)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
518598	2592.99	Left	Cheek	/	15.31	16.70	0.043	0.06	0.102	0.14	0.12
518598	2592.99	Left	Tilt	/	15.31	16.70	0.058	0.08	0.145	0.20	0.13
518598	2592.99	Right	Cheek		15.31	16.70	0.128	0.18	0.279	0.38	-0.02
518598	2592.99	Right	Tilt	Fig.98	15.31	16.70	0.170	0.23	0.397	0.55	0.08
518598	2592.99	Right	Tilt	CP-OFDM	15.26	16.70	0.144	0.20	0.362	0.50	0.18
518598	2592.99	Right	Tilt	S2	15.31	16.70	0.158	0.22	0.374	0.52	-0.06

Table 14.8-26: SAR Values (NR5G n41-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
518598	2592.99	Front	/	19.75	21.20	0.104	0.15	0.197	0.28	0.08
518598	2592.99	Rear	/	19.75	21.20	0.164	0.23	0.355	0.50	-0.08
518598	2592.99	Left	/	19.75	21.20	0.110	0.15	0.197	0.28	-0.04
518598	2592.99	Top	Fig.99	19.75	21.20	0.216	0.30	0.500	0.70	0.08
518598	2592.99	Top	CP-OFDM	19.65	21.20	0.174	0.25	0.411	0.59	0.01
518598	2592.99	Top	S2	19.75	21.20	0.201	0.28	0.463	0.65	0.07

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-27: SAR Values (NR5G n41-Body ANT1)

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
518598	2592.99	Front	/	23.14	24.20	0.107	0.14	0.190	0.24	-0.07
518598	2592.99	Rear	Fig.100	23.14	24.20	0.215	0.27	0.399	0.51	-0.04
518598	2592.99	Rear	CP-OFDM	22.61	22.70	0.106	0.11	0.243	0.25	0.16
518598	2592.99	Rear	S2	23.14	24.20	0.201	0.26	0.352	0.45	0.09

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-28: SAR Values (NR5G n41 - Head) - Scaled Reported SAR

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Right	Tilt	83.3%	83.3%	0.55	0.55

Table 14.8-29: SAR Values (NR5G n41- Body) – Scaled Reported SAR

Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Top	10	83.3%	83.3%	0.70	0.70
518598	2592.99	Rear	15	83.3%	83.3%	0.51	0.51

Table 14.8-30: SAR Values (NR5G n41-Head ANT4)

Ambient Temperature: 22.2 °C Liquid Temperature: 22 °C											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
518598	2592.99	Left	Cheek	Fig.101	23.39	24.20	0.138	0.17	0.497	0.60	0.04
518598	2592.99	Left	Tilt	/	23.39	24.20	0.051	0.06	0.181	0.22	-0.02
518598	2592.99	Right	Cheek	/	23.39	24.20	0.158	0.19	0.334	0.40	0.06
518598	2592.99	Right	Tilt	/	23.39	24.20	0.136	0.16	0.248	0.30	0.01
518598	2592.99	Left	Cheek	CP-OFDM	21.93	22.70	0.091	0.11	0.282	0.34	0.14
518598	2592.99	Left	Cheek	S2	23.39	24.20	0.114	0.14	0.374	0.45	0.06

Table 14.8-31: SAR Values (NR5G n41-Body ANT4)

Ambient Temperature: 22.2 °C Liquid Temperature: 22 °C										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
518598	2592.99	Front	/	20.51	21.20	0.065	0.08	0.132	0.15	0.02
518598	2592.99	Rear	Fig.102	20.51	21.20	0.253	0.30	0.595	0.70	-0.14
518598	2592.99	Left	/	20.51	21.20	0.207	0.24	0.501	0.59	0.03
518598	2592.99	Top		20.51	21.20	0.027	0.03	0.051	0.06	0.09
518598	2592.99	Rear	CP-OFDM	20.41	21.20	0.217	0.26	0.517	0.62	0.02
518598	2592.99	Rear	S2	20.51	21.20	0.226	0.26	0.543	0.64	0.16

Note: The distance between the EUT and the phantom bottom is 10mm

Table 14.8-32: SAR Values (NR5G n41-Body ANT4)

Ambient Temperature: 22.2 °C						Liquid Temperature: 22 °C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10 g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
518598	2592.99	Front	/	23.39	24.20	0.058	0.07	0.106	0.13	0.12
518598	2592.99	Rear	Fig.103	23.39	24.20	0.253	0.30	0.525	0.63	0.09
518598	2592.99	Rear	CP-OFDM	21.93	22.70	0.107	0.13	0.251	0.30	0.16
518598	2592.99	Rear	S2	23.39	24.20	0.219	0.26	0.483	0.58	0.05

Note: The distance between the EUT and the phantom bottom is 15mm

Table 14.8-33: SAR Values (NR5G n41 - Head) - Scaled Reported SAR

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Left	Cheek	83.3%	83.3%	0.60	0.60

Table 14.8-34: SAR Values (NR5G n41- Body) – Scaled Reported SAR

Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
518598	2592.99	Rear	10	83.3%	83.3%	0.70	0.70
518598	2592.99	Rear	15	83.3%	83.3%	0.63	0.63

15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Table 15.1: SAR Measurement Variability for Head WCDMA850 (1g) ANT1

Frequency		Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
4132	826.4	Right	Cheek	0.836	0.811	1.03	/

Table 15.2: SAR Measurement Variability for Head WCDMA1700 (1g) ANT1

Frequency		Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
1738	1752.6	Right	Tilt	0.816	0.792	1.03	/

Table 15.3: SAR Measurement Variability for Head WCDMA1900 (1g) ANT1

Frequency		Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
9662	1852.4	Right	Tilt	0.875	0.839	1.04	/

Table 15.4: SAR Measurement Variability for Head LTE B26 (1g)

Frequency		Mode	Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz							
26865	831.5	1RB_Low	Right	Cheek	0.831	0.802	1.04	/

16 Measurement Uncertainty

16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u'_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞

	(target)									
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u'_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.7	10.6	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞

19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u'_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71

16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u'_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						27.0	26.8	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 14, 2021	One year
02	Power meter	NRP2	101919	May 12, 2020	One year
03	Power sensor	NRP-Z91	101547		
04	Signal Generator	E4438C	MY49071430	February 25, 2020	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	129942	February 10, 2020	One year
07	E-field Probe	SPEAG EX3DV4	7307	May 29, 2020	One year
08	DAE	SPEAG DAE4	536	November 6, 2020	One year
09	Dipole Validation Kit	SPEAG D750V3	1017	July 24,2020	One year
10	Dipole Validation Kit	SPEAG D835V2	4d069	July 24,,2020	One year
11	Dipole Validation Kit	SPEAG D1750V2	1003	July 24, 2020	One year
12	Dipole Validation Kit	SPEAG D1900V2	5d101	July 28,2020	One year
13	Dipole Validation Kit	SPEAG D2450V2	853	July 21,2020	One year
14	Dipole Validation Kit	SPEAG D2600V2	1012	July 21,2020	One year
15	Dipole Validation Kit	SPEAG D5GHzV2	1060	July 27,2020	One year

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